



Full wwPDB EM Validation Report ⓘ

Sep 9, 2025 – 01:56 PM JST

PDB ID : 7EZK / pdb_00007ezk
EMDB ID : EMD-31393
Title : Structure of the phycobilisome from the red alga *Porphyridium purpureum* in Middle Light
Authors : Ma, J.F.; Sui, S.-F.
Deposited on : 2021-06-02
Resolution : 3.00 Å (reported)
Based on initial model : 6KGY

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev126
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

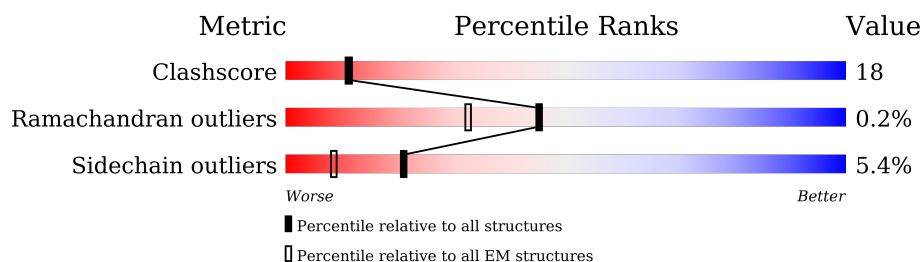
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	X1	363	58% 71% 18% • 11%
1	X7	363	• 72% 16% • 11%
1	X9	363	• 71% 17% • 11%
1	XF	363	8% 75% 14% 11%
1	XI	363	8% 77% 12% • 11%
1	XK	363	58% 71% 18% • 11%
2	A1	290	88% 73% 14% • 11%
2	A7	290	19% 74% 15% 11%

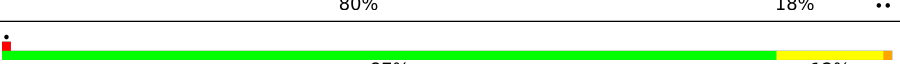
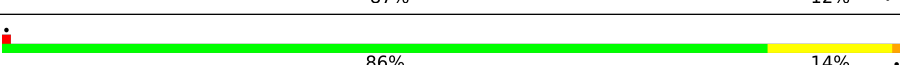
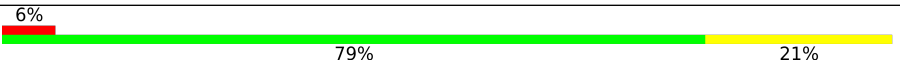
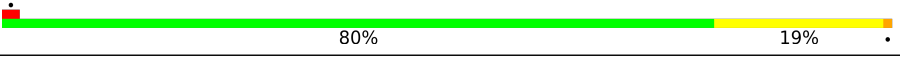
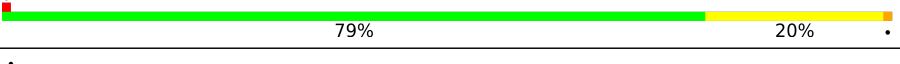
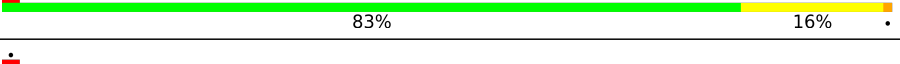
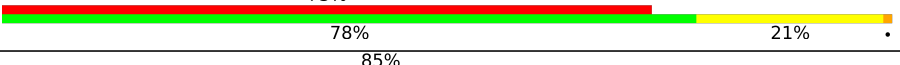
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Mol	Chain	Length	Quality of chain
2	A9	290	
2	AF	290	
2	AI	290	
2	AK	290	
3	B1	232	
3	B7	232	
3	B9	232	
3	BF	232	
3	BI	232	
3	BK	232	
4	C1	162	
4	C7	162	
4	C9	162	
4	CF	162	
4	CI	162	
4	CK	162	
4	E1	162	
4	E7	162	
4	E9	162	
4	EF	162	
4	EI	162	
4	EK	162	
4	G1	162	
4	G7	162	
4	G9	162	

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Mol	Chain	Length	Quality of chain
4	GF	162	
4	GI	162	
4	GK	162	
4	I1	162	
4	I7	162	
4	I9	162	
4	IF	162	
4	II	162	
4	IK	162	
4	K1	162	
4	K7	162	
4	K9	162	
4	KF	162	
4	KI	162	
4	KK	162	
4	M1	162	
4	M7	162	
4	M9	162	
4	MF	162	
4	MI	162	
4	MK	162	
5	D1	172	
5	D7	172	
5	D9	172	
5	DF	172	

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Mol	Chain	Length	Quality of chain
5	DI	172	
5	DK	172	
5	F1	172	
5	F7	172	
5	F9	172	
5	FF	172	
5	FI	172	
5	FK	172	
5	H1	172	
5	H7	172	
5	H9	172	
5	HF	172	
5	HI	172	
5	HK	172	
5	J1	172	
5	J7	172	
5	J9	172	
5	JF	172	
5	JI	172	
5	JK	172	
5	L1	172	
5	L7	172	
5	L9	172	
5	LF	172	
5	LI	172	

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Mol	Chain	Length	Quality of chain
5	LK	172	
5	N1	172	
5	N7	172	
5	N9	172	
5	NF	172	
5	NI	172	
5	NK	172	
6	A3	164	
6	AA	164	
6	AC	164	
6	AE	164	
6	AG	164	
6	AJ	164	
6	AL	164	
6	AN	164	
6	AO	164	
6	AQ	164	
6	B4	164	
6	BD	164	
6	C3	164	
6	CA	164	
6	CB	164	
6	CC	164	
6	CE	164	
6	CG	164	

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Mol	Chain	Length	Quality of chain
6	CJ	164	
6	CL	164	
6	CM	164	
6	CN	164	
6	CO	164	
6	CQ	164	
6	D4	164	
6	DD	164	
6	E3	164	
6	EA	164	
6	EB	164	
6	EC	164	
6	EE	164	
6	EG	164	
6	EJ	164	
6	EL	164	
6	EM	164	
6	EN	164	
6	EO	164	
6	EQ	164	
6	F4	164	
6	FD	164	
6	G3	164	
6	GA	164	
6	GB	164	

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Mol	Chain	Length	Quality of chain
6	GC	164	96% 78%19%
6	GE	164	98% 77%19%
6	GG	164	100% 53%40%6%
6	GJ	164	6% 76%21%
6	GL	164	5% 74%23%
6	GM	164	41% 78%18%
6	GN	164	100% 57%38%
6	GO	164	41% 75%23%
6	GQ	164	100% 53%41%5%
6	H4	164	82% 36%52%11%
6	HD	164	81% 33%55%11%
6	I3	164	14% 72%24%
6	IA	164	100% 55%38%7%
6	IB	164	13% 87%13%
6	IC	164	99% 78%20%
6	IE	164	99% 77%20%
6	IG	164	100% 51%42%5%
6	IJ	164	5% 74%22%
6	IL	164	5% 76%20%
6	IM	164	15% 84%16%
6	IN	164	100% 56%37%7%
6	IO	164	16% 71%25%
6	IQ	164	100% 52%40%7%
6	J4	164	95% 37%55%7%
6	J5	164	8% 81%18%

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Mol	Chain	Length	Quality of chain
6	J8	164	
6	JD	164	
6	K3	164	
6	KA	164	
6	KB	164	
6	KC	164	
6	KE	164	
6	KG	164	
6	KJ	164	
6	KL	164	
6	KM	164	
6	KN	164	
6	KO	164	
6	KQ	164	
6	L4	164	
6	LD	164	
6	M2	164	
6	MB	164	
6	MJ	164	
6	ML	164	
6	MM	164	
6	MR	164	
6	O1	164	
6	O2	164	
6	O7	164	

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Mol	Chain	Length	Quality of chain
6	O9	164	9% 85% 12% .
6	OB	164	30% 88% 12%
6	OF	164	10% 87% 12% .
6	OI	164	9% 87% 12% .
6	OJ	164	27% 82% 18%
6	OK	164	85% 86% 14%
6	OL	164	25% 81% 19%
6	OM	164	31% 87% 13%
6	OR	164	12% 46% 50% .
6	Q1	164	77% 87% 13%
6	Q2	164	23% 51% 44% 5%
6	Q7	164	. 82% 16% .
6	Q9	164	. 81% 16% .
6	QB	164	51% 87% 13%
6	QF	164	27% 87% 13%
6	QI	164	26% 87% 13%
6	QJ	164	32% 79% 21% .
6	QK	164	78% 85% 15%
6	QL	164	33% 79% 20% .
6	QM	164	48% 87% 13%
6	QR	164	24% 50% 47% .
6	S1	164	85% 82% 18%
6	S2	164	18% 57% 38% .
6	S7	164	. 79% 18% .
6	S9	164	. 79% 18% .

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Mol	Chain	Length	Quality of chain
6	SB	164	
6	SF	164	
6	SI	164	
6	SJ	164	
6	SK	164	
6	SL	164	
6	SM	164	
6	SR	164	
6	U1	164	
6	U2	164	
6	U7	164	
6	U9	164	
6	UB	164	
6	UF	164	
6	UI	164	
6	UJ	164	
6	UK	164	
6	UL	164	
6	UM	164	
6	UR	164	
6	W1	164	
6	W2	164	
6	W7	164	
6	W9	164	
6	WB	164	

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Mol	Chain	Length	Quality of chain
6	WF	164	12% 85% 15%
6	WI	164	13% 84% 16%
6	WJ	164	30% 80% 18%
6	WK	164	96% 82% 17%
6	WL	164	27% 78% 21%
6	WM	164	9% 83% 17%
6	WR	164	54% 56% 40%
6	YB	164	11% 86% 14%
6	YJ	164	98% 84% 15%
6	YL	164	98% 80% 19%
6	YM	164	10% 84% 16%
6	Z1	164	99% 83% 16%
6	Z7	164	5% 82% 16%
6	Z9	164	5% 83% 15%
6	ZF	164	8% 90% 10%
6	ZI	164	9% 88% 12%
6	ZK	164	99% 85% 15%
6	aB	164	92% 85% 15%
6	aJ	164	89% 76% 21%
6	aL	164	87% 76% 21%
6	aM	164	91% 86% 14%
6	b1	164	100% 84% 16%
6	b7	164	29% 83% 14%
6	b9	164	29% 83% 14%
6	bF	164	37% 86% 12%

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Mol	Chain	Length	Quality of chain
6	bI	164	36% 86% 12% .
6	bK	164	100% 85% 15% .
6	cJ	164	93% 75% 23% .
6	cL	164	93% 76% 21% .
6	d1	164	99% 83% 17% .
6	d7	164	24% 82% 15% .
6	d9	164	25% 82% 15% .
6	dB	164	93% 86% 13% .
6	dF	164	66% 88% 10% .
6	dI	164	68% 87% 11% .
6	dK	164	99% 83% 17% .
6	dM	164	92% 85% 15% .
6	eJ	164	90% 82% 18% .
6	eL	164	91% 81% 18% .
6	f1	164	99% 84% 16% .
6	f7	164	35% 84% 13% .
6	f9	164	37% 83% 14% .
6	fB	164	98% 80% 20% .
6	fF	164	79% 85% 15% .
6	fI	164	77% 85% 15% .
6	fK	164	99% 85% 15% .
6	fM	164	98% 82% 18% .
6	gJ	164	93% 80% 18% .
6	gL	164	93% 77% 23% .
6	h1	164	100% 83% 17% .

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Mol	Chain	Length	Quality of chain
6	h7	164	
6	h9	164	
6	hB	164	
6	hF	164	
6	hI	164	
6	hK	164	
6	hM	164	
6	iJ	164	
6	iL	164	
6	j1	164	
6	j7	164	
6	j9	164	
6	jB	164	
6	jF	164	
6	jI	164	
6	jK	164	
6	jM	164	
6	kJ	164	
6	kL	164	
6	l1	164	
6	l7	164	
6	l9	164	
6	lB	164	
6	lF	164	
6	lI	164	

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Mol	Chain	Length	Quality of chain
6	lK	164	99% 82% 18% .
6	lM	164	73% 80% 19% .
6	mJ	164	100% 61% 38% .
6	mL	164	100% 65% 34% .
6	oJ	164	100% 68% 31% .
6	oL	164	100% 67% 32% .
6	qJ	164	100% 73% 26% .
6	qL	164	100% 74% 25% .
6	sJ	164	100% 76% 24% .
6	sL	164	100% 77% 23% .
6	uJ	164	100% 77% 23% .
6	uL	164	100% 77% 23% .
7	A5	177	100% 80% 14% 5% .
7	A8	177	100% 80% 15% 5% .
7	B3	177	18% 77% 20% .
7	B5	177	79% 64% 18% 18%
7	B8	177	80% 62% 20% 18%
7	BA	177	100% 67% 31% ..
7	BC	177	100% 66% 31% .
7	BE	177	100% 66% 31% .
7	BG	177	100% 60% 37% .
7	BJ	177	35% 79% 20% .
7	BL	177	34% 76% 23% .
7	BN	177	100% 69% 29% ..
7	BO	177	18% 78% 20% .

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Mol	Chain	Length	Quality of chain
7	BQ	177	
7	C4	177	
7	C5	177	
7	C8	177	
7	CD	177	
7	D3	177	
7	DA	177	
7	DB	177	
7	DC	177	
7	DE	177	
7	DG	177	
7	DJ	177	
7	DL	177	
7	DM	177	
7	DN	177	
7	DO	177	
7	DQ	177	
7	E4	177	
7	ED	177	
7	F3	177	
7	F5	177	
7	F8	177	
7	FA	177	
7	FB	177	
7	FC	177	

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Mol	Chain	Length	Quality of chain
7	FE	177	
7	FG	177	
7	FJ	177	
7	FL	177	
7	FM	177	
7	FN	177	
7	FO	177	
7	FQ	177	
7	G4	177	
7	G5	177	
7	G8	177	
7	GD	177	
7	H3	177	
7	H5	177	
7	H8	177	
7	HA	177	
7	HB	177	
7	HC	177	
7	HE	177	
7	HG	177	
7	HJ	177	
7	HL	177	
7	HM	177	
7	HN	177	
7	HO	177	

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Mol	Chain	Length	Quality of chain
7	HQ	177	
7	I4	177	
7	I5	177	
7	I8	177	
7	ID	177	
7	J3	177	
7	JA	177	
7	JB	177	
7	JC	177	
7	JE	177	
7	JG	177	
7	JJ	177	
7	JL	177	
7	JM	177	
7	JN	177	
7	JO	177	
7	JQ	177	
7	K4	177	
7	K5	177	
7	K8	177	
7	KD	177	
7	L3	177	
7	L5	177	
7	L8	177	
7	LA	177	

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Mol	Chain	Length	Quality of chain
7	LB	177	
7	LC	177	
7	LE	177	
7	LG	177	
7	LJ	177	
7	LL	177	
7	LM	177	
7	LN	177	
7	LO	177	
7	LQ	177	
7	M3	177	
7	M4	177	
7	MD	177	
7	MO	177	
7	N2	177	
7	N3	177	
7	NB	177	
7	NJ	177	
7	NL	177	
7	NM	177	
7	NO	177	
7	NR	177	
7	P1	177	
7	P2	177	
7	P7	177	

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Mol	Chain	Length	Quality of chain
7	P9	177	
7	PB	177	
7	PF	177	
7	PI	177	
7	PJ	177	
7	PK	177	
7	PL	177	
7	PM	177	
7	PR	177	
7	R1	177	
7	R2	177	
7	R7	177	
7	R9	177	
7	RB	177	
7	RF	177	
7	RI	177	
7	RJ	177	
7	RK	177	
7	RL	177	
7	RM	177	
7	RR	177	
7	T1	177	
7	T2	177	
7	T7	177	
7	T9	177	

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Mol	Chain	Length	Quality of chain
7	TB	177	
7	TF	177	
7	TI	177	
7	TJ	177	
7	TK	177	
7	TL	177	
7	TM	177	
7	TR	177	
7	V1	177	
7	V2	177	
7	V7	177	
7	V9	177	
7	VB	177	
7	VF	177	
7	VI	177	
7	VJ	177	
7	VK	177	
7	VL	177	
7	VM	177	
7	VR	177	
7	X2	177	
7	XB	177	
7	XJ	177	
7	XL	177	
7	XM	177	

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Mol	Chain	Length	Quality of chain
7	XR	177	
7	Y1	177	
7	Y7	177	
7	Y9	177	
7	YF	177	
7	YI	177	
7	YK	177	
7	ZB	177	
7	ZJ	177	
7	ZL	177	
7	ZM	177	
7	a1	177	
7	a7	177	
7	a9	177	
7	aF	177	
7	aI	177	
7	aK	177	
7	bJ	177	
7	bL	177	
7	c1	177	
7	c7	177	
7	c9	177	
7	cB	177	
7	cF	177	
7	cI	177	

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Mol	Chain	Length	Quality of chain
7	cK	177	
7	cM	177	
7	dJ	177	
7	dL	177	
7	e1	177	
7	e7	177	
7	e9	177	
7	eB	177	
7	eF	177	
7	eI	177	
7	eK	177	
7	eM	177	
7	fJ	177	
7	fL	177	
7	g1	177	
7	g7	177	
7	g9	177	
7	gB	177	
7	gF	177	
7	gI	177	
7	gK	177	
7	gM	177	
7	hJ	177	
7	hL	177	
7	i1	177	

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Mol	Chain	Length	Quality of chain
7	i7	177	
7	i9	177	
7	iB	177	
7	iF	177	
7	iI	177	
7	iK	177	
7	iM	177	
7	jJ	177	
7	jL	177	
7	k1	177	
7	k7	177	
7	k9	177	
7	kB	177	
7	kF	177	
7	kI	177	
7	kK	177	
7	kM	177	
7	lJ	177	
7	lL	177	
7	m1	177	
7	m7	177	
7	m9	177	
7	mB	177	
7	mF	177	
7	mI	177	

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Mol	Chain	Length	Quality of chain
7	mK	177	
7	mM	177	
7	nJ	177	
7	nL	177	
7	pJ	177	
7	pL	177	
7	rJ	177	
7	rL	177	
7	tJ	177	
7	tL	177	
7	vJ	177	
7	vL	177	
8	e2	303	
8	eR	303	
9	O3	405	
9	OO	405	
10	d4	342	
10	dD	342	
11	D5	327	
11	D8	327	
12	E5	288	
12	E8	288	
13	k6	288	
13	kH	288	
14	MA	333	

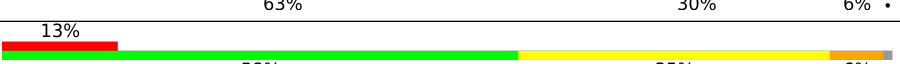
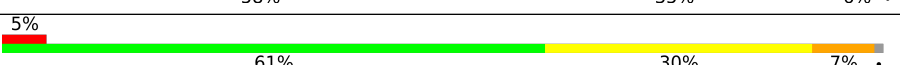
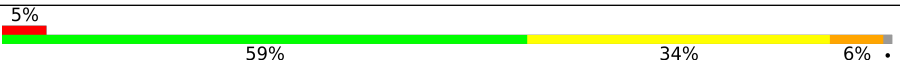
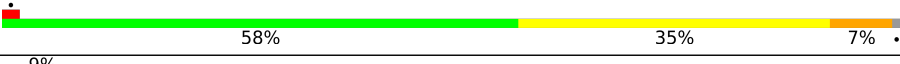
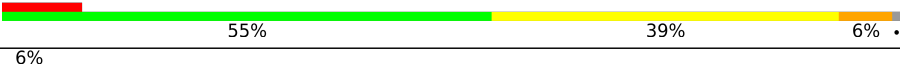
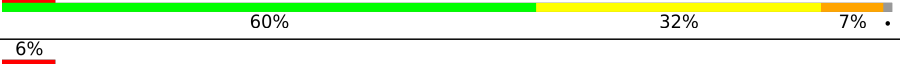
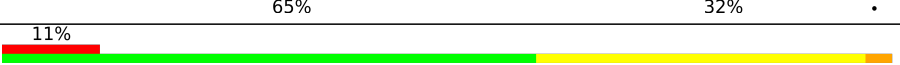
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Mol	Chain	Length	Quality of chain
14	MG	333	
14	MN	333	
14	MQ	333	
15	bB	490	
15	bM	490	
16	AB	273	
16	AM	273	
16	wJ	273	
16	wL	273	
16	xJ	273	
16	xL	273	
17	BB	290	
17	BM	290	
17	yJ	290	
17	yL	290	
18	MC	316	
18	ME	316	
19	zJ	498	
19	zL	498	
20	AP	161	
20	CP	161	
20	EP	161	
20	GP	161	
20	JP	161	
20	KP	161	

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Mol	Chain	Length	Quality of chain
20	NP	161	
20	PP	161	
20	RP	161	
20	TP	161	
20	cP	161	
20	eP	161	
20	gP	161	
20	iP	161	
20	lP	161	
20	mP	161	
20	pP	161	
20	rP	161	
20	tP	161	
20	vP	161	
21	BP	161	
21	DP	161	
21	FP	161	
21	HP	161	
21	IP	161	
21	LP	161	
21	MP	161	
21	OP	161	
21	QP	161	
21	SP	161	
21	UP	161	

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Mol	Chain	Length	Quality of chain
21	dP	161	
21	fP	161	
21	hP	161	
21	jP	161	
21	kP	161	
21	nP	161	
21	oP	161	
21	qP	161	
21	sP	161	
21	uP	161	
21	wP	161	
22	VP	161	
22	xP	161	
23	WP	173	
23	yP	173	
24	XP	132	
24	zP	132	
25	1P	879	
25	YP	879	
26	2P	159	
26	ZP	159	
27	3P	288	
27	aP	288	
28	4P	253	
28	bP	253	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	MEN	LP	71	-	X	-	-
21	MEN	hP	71	-	-	X	-
21	MEN	jP	71	-	X	-	-
21	MEN	kP	71	-	X	-	-
29	PEB	AJ	202	-	-	X	-
29	PEB	AL	202	-	-	X	-
29	PEB	BB	301	-	-	X	-
29	PEB	BG	203	-	-	X	-
29	PEB	BM	301	-	-	X	-
29	PEB	BQ	203	-	-	X	-
29	PEB	C4	202	-	-	X	-
29	PEB	C4	203	-	-	X	-
29	PEB	CD	203	-	-	X	-
29	PEB	D3	202	-	-	X	-
29	PEB	DO	202	-	-	X	-
29	PEB	DQ	203	-	-	X	-
29	PEB	FG	203	-	-	X	-
29	PEB	FN	201	-	-	X	-
29	PEB	FQ	203	-	-	X	-
29	PEB	G4	203	-	-	X	-
29	PEB	GD	203	-	-	X	-
29	PEB	H1	1002	-	-	X	-
29	PEB	H4	202	-	-	X	-
29	PEB	HD	202	-	-	X	-
29	PEB	HG	203	-	-	X	-
29	PEB	HK	1002	-	-	X	-
29	PEB	HQ	203	-	-	X	-
29	PEB	I4	202	-	-	X	-
29	PEB	I4	203	-	-	X	-
29	PEB	ID	202	-	-	X	-
29	PEB	J4	201	-	-	X	-
29	PEB	K4	202	-	-	X	-
29	PEB	KD	202	-	-	X	-
29	PEB	LF	1002	-	-	X	-
29	PEB	LG	203	-	-	X	-
29	PEB	LI	1002	-	-	X	-
29	PEB	LQ	202	-	-	X	-
29	PEB	M2	202	-	-	X	-
29	PEB	MR	202	-	-	X	-
29	PEB	NR	201	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	PEB	QB	204	-	-	X	-
29	PEB	QM	204	-	-	X	-
29	PEB	QR	202	-	-	X	-
29	PEB	SF	202	-	-	X	-
29	PEB	SI	202	-	-	X	-
29	PEB	U2	202	-	-	X	-
29	PEB	UR	202	-	-	X	-
29	PEB	W2	202	-	-	X	-
29	PEB	WR	202	-	-	X	-
29	PEB	e2	401	-	-	X	-
29	PEB	eR	401	-	-	X	-
29	PEB	kF	203	-	-	X	-
29	PEB	kI	203	-	-	X	-
7	MEN	HJ	72	-	-	X	-
7	MEN	HL	72	-	-	X	-
7	MEN	I5	72	-	-	X	-
7	MEN	I8	72	-	-	X	-

2 Entry composition

There are 32 unique types of molecules in this entry. The entry contains 944670 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	X1	324	Total	C	N	O	S	0	0
			2527	1603	431	486	7		
1	X7	324	Total	C	N	O	S	0	0
			2527	1603	431	486	7		
1	X9	324	Total	C	N	O	S	0	0
			2527	1603	431	486	7		
1	XF	324	Total	C	N	O	S	0	0
			2527	1603	431	486	7		
1	XI	324	Total	C	N	O	S	0	0
			2523	1600	430	486	7		
1	XK	324	Total	C	N	O	S	0	0
			2527	1603	431	486	7		

- Molecule 2 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A1	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
2	A7	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
2	A9	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
2	AF	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
2	AI	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		
2	AK	257	Total	C	N	O	S	0	0
			1987	1226	368	378	15		

- Molecule 3 is a protein called Phycobilisome rod-core linker polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	B1	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		
3	B7	230	Total	C	N	O	S	0	0
			1889	1206	331	348	4		
3	B9	230	Total	C	N	O	S	0	0
			1889	1206	331	348	4		
3	BF	231	Total	C	N	O	S	0	0
			1897	1212	332	349	4		
3	BI	231	Total	C	N	O	S	0	0
			1897	1212	332	349	4		
3	BK	227	Total	C	N	O	S	0	0
			1874	1197	328	345	4		

- Molecule 4 is a protein called C-phycoyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	C1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	E1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	G1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	I1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	K1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	M1	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	C7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	E7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	G7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	I7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	K7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	M7	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	C9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	E9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	G9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	I9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	K9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	M9	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	CF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	EF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	GF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	IF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	KF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	MF	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	CI	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	EI	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	GI	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	II	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	KI	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	MI	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	CK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	EK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	GK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	IK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		
4	KK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	MK	162	Total	C	N	O	S	0	0
			1228	773	209	240	6		

- Molecule 5 is a protein called C-phycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	D1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	F1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	H1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	J1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	L1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	N1	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	D7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	F7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	H7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	J7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	L7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	N7	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	D9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	F9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	H9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	J9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	L9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	N9	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	DF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	FF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	HF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	JF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	LF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	NF	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	DI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	FI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	HI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	JI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	LI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	NI	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	DK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	FK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	HK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	JK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	LK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		
5	NK	172	Total	C	N	O	S	0	0
			1272	786	224	253	9		

- Molecule 6 is a protein called Phycoerythrin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	O1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	Q1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	S1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	U1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	W1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	Z1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	b1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	d1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	f1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	h1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	j1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	l1	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	M2	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	O2	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	Q2	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	S2	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	U2	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	W2	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	A3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	C3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	E3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	G3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	I3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	K3	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	B4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	D4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	F4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	H4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	J4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	L4	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	J5	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	O7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	Q7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	S7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	U7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	W7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	Z7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	b7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	d7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	f7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	h7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	j7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	l7	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	J8	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	O9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	Q9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	S9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	U9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	W9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	Z9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	b9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	d9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	f9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	h9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	j9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	l9	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KA	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	GB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	MB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	YB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	aB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	dB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	fB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	hB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	jB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	lB	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	KC	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	BD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	DD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	FD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	HD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	JD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	LD	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KE	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	ZF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	bF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	dF	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	fF	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	hF	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	jF	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	lF	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	AG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	CG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	EG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	GG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	IG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	KG	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	OI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	QI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	SI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	UI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	WI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	ZI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	bI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	dI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	fI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	hI	164	Total 1250	C 779	N 219	O 245	S 7	0	0
6	jI	164	Total 1250	C 779	N 219	O 245	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	II	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	MJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	YJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	aJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	cJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	eJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	gJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	iJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	kJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	mJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	oJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	qJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	sJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	uJ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	ZK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	bK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	dK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	fK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	hK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	jK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	lK	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	KL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	ML	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	YL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	aL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	cL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	eL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	gL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	iL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	kL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	mL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	oL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	qL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	sL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	uL	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	GM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	MM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	QM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	UM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	WM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	YM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	aM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	dM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	fM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	hM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	jM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	lM	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	KN	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KO	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	AQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	CQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	EQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	GQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	IQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	KQ	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	MR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	OR	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	QR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		
6	SR	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	UR	164	Total	C	N	O	S	0	0
			1249	779	219	244	7		
6	WR	164	Total	C	N	O	S	0	0
			1250	779	219	245	7		

- Molecule 7 is a protein called B-phycoerythrin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	P1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	R1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	T1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	V1	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	Y1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	a1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	c1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	e1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	g1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	i1	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	k1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	m1	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	N2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	P2	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	R2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	T2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	V2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	X2	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	B3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	D3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	F3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	H3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	J3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	L3	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	M3	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	N3	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	C4	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	E4	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	G4	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	I4	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	K4	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	M4	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	B5	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	F5	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	G5	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	H5	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	I5	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	K5	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	L5	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	A5	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	C5	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	P7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	R7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	T7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	V7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	Y7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	a7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	c7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	e7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	g7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	i7	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	k7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	m7	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	B8	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	F8	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	G8	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	H8	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	I8	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	K8	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	L8	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	A8	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	C8	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	P9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	R9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	T9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	V9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	Y9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	a9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	c9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	e9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	g9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	i9	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	k9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	m9	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BA	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DA	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FA	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HA	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	JA	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LA	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	FB	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	HB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	JB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	LB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	NB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	PB	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	RB	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	TB	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	VB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	XB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	ZB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	cB	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	eB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	gB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	iB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	kB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	mB	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	BC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	JC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LC	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	CD	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	ED	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	GD	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	ID	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	KD	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	MD	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	JE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LE	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	RF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VF	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	YF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	aF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	cF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	eF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	gF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	iF	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	kF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	mF	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BG	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DG	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FG	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HG	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	JG	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LG	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	RI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VI	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	YI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	aI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	cI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	eI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	gI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	iI	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	kI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	mI	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	FJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	JJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	NJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PJ	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	RJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	XJ	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	ZJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	bJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	dJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	fJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	hJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	jJ	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	lJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	nJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	pJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	rJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	tJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	vJ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	RK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VK	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	YK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	aK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	cK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	eK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	gK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	iK	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	kK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	mK	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	JL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	NL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PL	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	RL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	XL	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	ZL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	bL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	dL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	fL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	hL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	jL	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	lL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	nL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	pL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	rL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	tL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	vL	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	FM	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	HM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	JM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	LM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	NM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	PM	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	RM	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	TM	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	VM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	XM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	ZM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	cM	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	eM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	gM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	iM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	kM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	mM	177	Total	C	N	O	S	2	0
			1300	804	225	259	12		
7	BN	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DN	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FN	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HN	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	JN	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LN	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	BO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	FO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	JO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LO	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	MO	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	NO	146	Total	C	N	O	S	0	0
			1065	654	187	213	11		
7	BQ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	DQ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	FQ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	HQ	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	JQ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	LQ	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	NR	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	PR	177	Total	C	N	O	S	1	0
			1297	802	225	258	12		
7	RR	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	TR	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	VR	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		
7	XR	177	Total	C	N	O	S	0	0
			1294	800	225	257	12		

- Molecule 8 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	e2	248	Total	C	N	O	S	0	0
			1932	1217	336	369	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	eR	248	Total	C	N	O	S	0	0
			1932	1217	336	369	10		

- Molecule 9 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	O3	375	Total	C	N	O	S	0	0
			2873	1809	488	563	13		
9	OO	375	Total	C	N	O	S	0	0
			2873	1809	488	563	13		

- Molecule 10 is a protein called Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	d4	297	Total	C	N	O	S	0	0
			2293	1425	407	450	11		
10	dD	297	Total	C	N	O	S	0	0
			2293	1425	407	450	11		

- Molecule 11 is a protein called CaRSPs2.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	D5	81	Total	C	N	O	S	0	0
			654	417	113	122	2		
11	D8	81	Total	C	N	O	S	0	0
			654	417	113	122	2		

- Molecule 12 is a protein called CaRSPs1.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	E5	205	Total	C	N	O	S	0	0
			1580	1004	278	289	9		
12	E8	205	Total	C	N	O	S	0	0
			1580	1004	278	289	9		

- Molecule 13 is a protein called FAS1 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	k6	285	Total	C	N	O	S	0	0
			2182	1399	369	404	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	kH	285	Total	C	N	O	S	0	0
			2182	1399	369	404	10		

- Molecule 14 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	MA	238	Total	C	N	O	S	0	0
			1851	1140	348	348	15		
14	MG	238	Total	C	N	O	S	0	0
			1851	1140	348	348	15		
14	MN	238	Total	C	N	O	S	0	0
			1851	1140	348	348	15		
14	MQ	238	Total	C	N	O	S	0	0
			1851	1140	348	348	15		

- Molecule 15 is a protein called Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	bB	380	Total	C	N	O	S	0	0
			2961	1867	514	565	15		
15	bM	380	Total	C	N	O	S	0	0
			2961	1867	514	565	15		

- Molecule 16 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AB	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
16	wJ	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
16	xJ	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
16	wL	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
16	xL	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		
16	AM	238	Total	C	N	O	S	0	0
			1814	1122	335	342	15		

- Molecule 17 is a protein called R-phycoerythrin gamma chain, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	BB	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		
17	yJ	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		
17	yL	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		
17	BM	250	Total	C	N	O	S	0	0
			1902	1184	346	358	14		

- Molecule 18 is a protein called Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	MC	280	Total	C	N	O	S	0	0
			2196	1391	382	413	10		
18	ME	280	Total	C	N	O	S	0	0
			2196	1391	382	413	10		

- Molecule 19 is a protein called Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	zJ	370	Total	C	N	O	S	0	0
			2901	1833	514	540	14		
19	zL	370	Total	C	N	O	S	0	0
			2901	1833	514	540	14		

- Molecule 20 is a protein called Allophycocyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	CP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	EP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	GP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	JP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	KP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
20	NP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	PP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	RP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	TP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	cP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	eP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	gP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	iP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	lP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	mP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	pP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	rP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	tP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		
20	vP	160	Total	C	N	O	S	0	0
			1225	768	211	239	7		

- Molecule 21 is a protein called Allophycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	DP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	FP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	BP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	HP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	IP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
21	LP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	MP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	OP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	QP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	SP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	UP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	dP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	fP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	hP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	jP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	kP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	nP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	oP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	qP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	sP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	uP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		
21	wP	161	Total	C	N	O	S	0	0
			1220	767	206	240	7		

- Molecule 22 is a protein called Allophycocyanin gamma subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	VP	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		
22	xP	160	Total	C	N	O	S	0	0
			1260	808	207	240	5		

- Molecule 23 is a protein called Allophycocyanin beta 18 subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	WP	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		
23	yP	173	Total	C	N	O	S	0	0
			1376	881	230	261	4		

- Molecule 24 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	XP	92	Total	C	N	O	S	0	0
			720	453	127	135	5		
24	zP	92	Total	C	N	O	S	0	0
			720	453	127	135	5		

- Molecule 25 is a protein called Phycobilisome linker polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	YP	844	Total	C	N	O	S	0	0
			6756	4328	1169	1245	14		
25	1P	844	Total	C	N	O	S	0	0
			6756	4328	1169	1245	14		

- Molecule 26 is a protein called Lrc4.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	ZP	132	Total	C	N	O	S	0	0
			1004	631	179	191	3		
26	2P	132	Total	C	N	O	S	0	0
			1004	631	179	191	3		

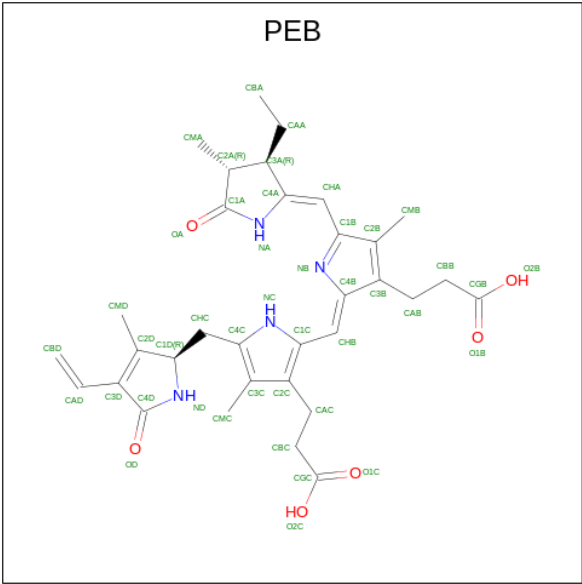
- Molecule 27 is a protein called LRC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	aP	253	Total	C	N	O	S	0	0
			1897	1190	325	375	7		
27	3P	253	Total	C	N	O	S	0	0
			1897	1190	325	375	7		

- Molecule 28 is a protein called FAS1 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	bP	207	Total	C	N	O	S	0	0
			1537	985	260	287	5		
28	4P	207	Total	C	N	O	S	0	0
			1537	985	260	287	5		

- Molecule 29 is PHYCOERYTHROBILIN (CCD ID: PEB) (formula: C₃₃H₄₀N₄O₆).



Mol	Chain	Residues	Atoms				AltConf
29	A1	1	Total	C	N	O	0
			43	33	4	6	
29	A1	1	Total	C	N	O	0
			43	33	4	6	
29	A1	1	Total	C	N	O	0
			43	33	4	6	
29	D1	1	Total	C	N	O	0
			43	33	4	6	
29	F1	1	Total	C	N	O	0
			43	33	4	6	
29	H1	1	Total	C	N	O	0
			43	33	4	6	
29	J1	1	Total	C	N	O	0
			43	33	4	6	
29	L1	1	Total	C	N	O	0
			43	33	4	6	
29	N1	1	Total	C	N	O	0
			43	33	4	6	
29	O1	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
29	O1	1	Total 43	C 33	N 4	O 6	0
29	P1	1	Total 43	C 33	N 4	O 6	0
29	P1	1	Total 43	C 33	N 4	O 6	0
29	P1	1	Total 43	C 33	N 4	O 6	0
29	Q1	1	Total 43	C 33	N 4	O 6	0
29	Q1	1	Total 43	C 33	N 4	O 6	0
29	R1	1	Total 43	C 33	N 4	O 6	0
29	R1	1	Total 43	C 33	N 4	O 6	0
29	R1	1	Total 43	C 33	N 4	O 6	0
29	S1	1	Total 43	C 33	N 4	O 6	0
29	S1	1	Total 43	C 33	N 4	O 6	0
29	T1	1	Total 43	C 33	N 4	O 6	0
29	T1	1	Total 43	C 33	N 4	O 6	0
29	U1	1	Total 43	C 33	N 4	O 6	0
29	U1	1	Total 43	C 33	N 4	O 6	0
29	U1	1	Total 43	C 33	N 4	O 6	0
29	V1	1	Total 43	C 33	N 4	O 6	0
29	V1	1	Total 43	C 33	N 4	O 6	0
29	V1	1	Total 43	C 33	N 4	O 6	0
29	W1	1	Total 43	C 33	N 4	O 6	0
29	W1	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	Y1	1	Total 43	C 33	N 4	O 6	0
29	Y1	1	Total 43	C 33	N 4	O 6	0
29	Z1	1	Total 43	C 33	N 4	O 6	0
29	Z1	1	Total 43	C 33	N 4	O 6	0
29	Z1	1	Total 43	C 33	N 4	O 6	0
29	a1	1	Total 43	C 33	N 4	O 6	0
29	a1	1	Total 43	C 33	N 4	O 6	0
29	a1	1	Total 43	C 33	N 4	O 6	0
29	b1	1	Total 43	C 33	N 4	O 6	0
29	b1	1	Total 43	C 33	N 4	O 6	0
29	c1	1	Total 43	C 33	N 4	O 6	0
29	c1	1	Total 43	C 33	N 4	O 6	0
29	c1	1	Total 43	C 33	N 4	O 6	0
29	d1	1	Total 43	C 33	N 4	O 6	0
29	d1	1	Total 43	C 33	N 4	O 6	0
29	e1	1	Total 43	C 33	N 4	O 6	0
29	e1	1	Total 43	C 33	N 4	O 6	0
29	e1	1	Total 43	C 33	N 4	O 6	0
29	f1	1	Total 43	C 33	N 4	O 6	0
29	f1	1	Total 43	C 33	N 4	O 6	0
29	g1	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	g1	1	Total 43	C 33	N 4	O 6	0
29	g1	1	Total 43	C 33	N 4	O 6	0
29	h1	1	Total 43	C 33	N 4	O 6	0
29	h1	1	Total 43	C 33	N 4	O 6	0
29	i1	1	Total 43	C 33	N 4	O 6	0
29	i1	1	Total 43	C 33	N 4	O 6	0
29	i1	1	Total 43	C 33	N 4	O 6	0
29	j1	1	Total 43	C 33	N 4	O 6	0
29	j1	1	Total 43	C 33	N 4	O 6	0
29	j1	1	Total 43	C 33	N 4	O 6	0
29	k1	1	Total 43	C 33	N 4	O 6	0
29	k1	1	Total 43	C 33	N 4	O 6	0
29	k1	1	Total 43	C 33	N 4	O 6	0
29	l1	1	Total 43	C 33	N 4	O 6	0
29	l1	1	Total 43	C 33	N 4	O 6	0
29	m1	1	Total 43	C 33	N 4	O 6	0
29	m1	1	Total 43	C 33	N 4	O 6	0
29	e2	1	Total 43	C 33	N 4	O 6	0
29	e2	1	Total 43	C 33	N 4	O 6	0
29	M2	1	Total 43	C 33	N 4	O 6	0
29	M2	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	N2	1	Total 43	C 33	N 4	O 6	0
29	N2	1	Total 43	C 33	N 4	O 6	0
29	N2	1	Total 43	C 33	N 4	O 6	0
29	O2	1	Total 43	C 33	N 4	O 6	0
29	O2	1	Total 43	C 33	N 4	O 6	0
29	P2	1	Total 43	C 33	N 4	O 6	0
29	P2	1	Total 43	C 33	N 4	O 6	0
29	Q2	1	Total 43	C 33	N 4	O 6	0
29	Q2	1	Total 43	C 33	N 4	O 6	0
29	R2	1	Total 43	C 33	N 4	O 6	0
29	R2	1	Total 43	C 33	N 4	O 6	0
29	R2	1	Total 43	C 33	N 4	O 6	0
29	S2	1	Total 43	C 33	N 4	O 6	0
29	S2	1	Total 43	C 33	N 4	O 6	0
29	T2	1	Total 43	C 33	N 4	O 6	0
29	T2	1	Total 43	C 33	N 4	O 6	0
29	T2	1	Total 43	C 33	N 4	O 6	0
29	U2	1	Total 43	C 33	N 4	O 6	0
29	U2	1	Total 43	C 33	N 4	O 6	0
29	V2	1	Total 43	C 33	N 4	O 6	0
29	V2	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	V2	1	Total 43	C 33	N 4	O 6	0
29	W2	1	Total 43	C 33	N 4	O 6	0
29	W2	1	Total 43	C 33	N 4	O 6	0
29	X2	1	Total 43	C 33	N 4	O 6	0
29	X2	1	Total 43	C 33	N 4	O 6	0
29	A3	1	Total 43	C 33	N 4	O 6	0
29	A3	1	Total 43	C 33	N 4	O 6	0
29	B3	1	Total 43	C 33	N 4	O 6	0
29	B3	1	Total 43	C 33	N 4	O 6	0
29	B3	1	Total 43	C 33	N 4	O 6	0
29	C3	1	Total 43	C 33	N 4	O 6	0
29	C3	1	Total 43	C 33	N 4	O 6	0
29	D3	1	Total 43	C 33	N 4	O 6	0
29	D3	1	Total 43	C 33	N 4	O 6	0
29	D3	1	Total 43	C 33	N 4	O 6	0
29	E3	1	Total 43	C 33	N 4	O 6	0
29	E3	1	Total 43	C 33	N 4	O 6	0
29	F3	1	Total 43	C 33	N 4	O 6	0
29	F3	1	Total 43	C 33	N 4	O 6	0
29	F3	1	Total 43	C 33	N 4	O 6	0
29	G3	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	G3	1	Total 43	C 33	N 4	O 6	0
29	H3	1	Total 43	C 33	N 4	O 6	0
29	H3	1	Total 43	C 33	N 4	O 6	0
29	H3	1	Total 43	C 33	N 4	O 6	0
29	I3	1	Total 43	C 33	N 4	O 6	0
29	I3	1	Total 43	C 33	N 4	O 6	0
29	I3	1	Total 43	C 33	N 4	O 6	0
29	J3	1	Total 43	C 33	N 4	O 6	0
29	J3	1	Total 43	C 33	N 4	O 6	0
29	J3	1	Total 43	C 33	N 4	O 6	0
29	K3	1	Total 43	C 33	N 4	O 6	0
29	K3	1	Total 43	C 33	N 4	O 6	0
29	L3	1	Total 43	C 33	N 4	O 6	0
29	L3	1	Total 43	C 33	N 4	O 6	0
29	M3	1	Total 43	C 33	N 4	O 6	0
29	M3	1	Total 43	C 33	N 4	O 6	0
29	M3	1	Total 43	C 33	N 4	O 6	0
29	N3	1	Total 43	C 33	N 4	O 6	0
29	N3	1	Total 43	C 33	N 4	O 6	0
29	N3	1	Total 43	C 33	N 4	O 6	0
29	B4	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	B4	1	Total 43	C 33	N 4	O 6	0
29	C4	1	Total 43	C 33	N 4	O 6	0
29	C4	1	Total 43	C 33	N 4	O 6	0
29	C4	1	Total 43	C 33	N 4	O 6	0
29	D4	1	Total 43	C 33	N 4	O 6	0
29	D4	1	Total 43	C 33	N 4	O 6	0
29	E4	1	Total 43	C 33	N 4	O 6	0
29	E4	1	Total 43	C 33	N 4	O 6	0
29	E4	1	Total 43	C 33	N 4	O 6	0
29	F4	1	Total 43	C 33	N 4	O 6	0
29	F4	1	Total 43	C 33	N 4	O 6	0
29	G4	1	Total 43	C 33	N 4	O 6	0
29	G4	1	Total 43	C 33	N 4	O 6	0
29	G4	1	Total 43	C 33	N 4	O 6	0
29	H4	1	Total 43	C 33	N 4	O 6	0
29	H4	1	Total 43	C 33	N 4	O 6	0
29	I4	1	Total 43	C 33	N 4	O 6	0
29	I4	1	Total 43	C 33	N 4	O 6	0
29	I4	1	Total 43	C 33	N 4	O 6	0
29	J4	1	Total 43	C 33	N 4	O 6	0
29	J4	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	K4	1	Total 43	C 33	N 4	O 6	0
29	K4	1	Total 43	C 33	N 4	O 6	0
29	K4	1	Total 43	C 33	N 4	O 6	0
29	L4	1	Total 43	C 33	N 4	O 6	0
29	L4	1	Total 43	C 33	N 4	O 6	0
29	M4	1	Total 43	C 33	N 4	O 6	0
29	M4	1	Total 43	C 33	N 4	O 6	0
29	M4	1	Total 43	C 33	N 4	O 6	0
29	B5	1	Total 43	C 33	N 4	O 6	0
29	B5	1	Total 43	C 33	N 4	O 6	0
29	B5	1	Total 43	C 33	N 4	O 6	0
29	F5	1	Total 43	C 33	N 4	O 6	0
29	F5	1	Total 43	C 33	N 4	O 6	0
29	F5	1	Total 43	C 33	N 4	O 6	0
29	G5	1	Total 43	C 33	N 4	O 6	0
29	G5	1	Total 43	C 33	N 4	O 6	0
29	G5	1	Total 43	C 33	N 4	O 6	0
29	H5	1	Total 43	C 33	N 4	O 6	0
29	H5	1	Total 43	C 33	N 4	O 6	0
29	H5	1	Total 43	C 33	N 4	O 6	0
29	I5	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	I5	1	Total 43	C 33	N 4	O 6	0
29	I5	1	Total 43	C 33	N 4	O 6	0
29	J5	1	Total 43	C 33	N 4	O 6	0
29	J5	1	Total 43	C 33	N 4	O 6	0
29	K5	1	Total 43	C 33	N 4	O 6	0
29	K5	1	Total 43	C 33	N 4	O 6	0
29	K5	1	Total 43	C 33	N 4	O 6	0
29	L5	1	Total 43	C 33	N 4	O 6	0
29	L5	1	Total 43	C 33	N 4	O 6	0
29	L5	1	Total 43	C 33	N 4	O 6	0
29	A5	1	Total 43	C 33	N 4	O 6	0
29	A5	1	Total 43	C 33	N 4	O 6	0
29	A5	1	Total 43	C 33	N 4	O 6	0
29	C5	1	Total 43	C 33	N 4	O 6	0
29	C5	1	Total 43	C 33	N 4	O 6	0
29	C5	1	Total 43	C 33	N 4	O 6	0
29	A7	1	Total 43	C 33	N 4	O 6	0
29	A7	1	Total 43	C 33	N 4	O 6	0
29	A7	1	Total 43	C 33	N 4	O 6	0
29	D7	1	Total 43	C 33	N 4	O 6	0
29	F7	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	H7	1	Total 43	C 33	N 4	O 6	0
29	J7	1	Total 43	C 33	N 4	O 6	0
29	L7	1	Total 43	C 33	N 4	O 6	0
29	N7	1	Total 43	C 33	N 4	O 6	0
29	O7	1	Total 43	C 33	N 4	O 6	0
29	O7	1	Total 43	C 33	N 4	O 6	0
29	P7	1	Total 43	C 33	N 4	O 6	0
29	P7	1	Total 43	C 33	N 4	O 6	0
29	P7	1	Total 43	C 33	N 4	O 6	0
29	Q7	1	Total 43	C 33	N 4	O 6	0
29	Q7	1	Total 43	C 33	N 4	O 6	0
29	R7	1	Total 43	C 33	N 4	O 6	0
29	R7	1	Total 43	C 33	N 4	O 6	0
29	R7	1	Total 43	C 33	N 4	O 6	0
29	S7	1	Total 43	C 33	N 4	O 6	0
29	S7	1	Total 43	C 33	N 4	O 6	0
29	T7	1	Total 43	C 33	N 4	O 6	0
29	T7	1	Total 43	C 33	N 4	O 6	0
29	T7	1	Total 43	C 33	N 4	O 6	0
29	U7	1	Total 43	C 33	N 4	O 6	0
29	U7	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	V7	1	Total 43	C 33	N 4	O 6	0
29	V7	1	Total 43	C 33	N 4	O 6	0
29	V7	1	Total 43	C 33	N 4	O 6	0
29	W7	1	Total 43	C 33	N 4	O 6	0
29	W7	1	Total 43	C 33	N 4	O 6	0
29	Y7	1	Total 43	C 33	N 4	O 6	0
29	Y7	1	Total 43	C 33	N 4	O 6	0
29	Y7	1	Total 43	C 33	N 4	O 6	0
29	Z7	1	Total 43	C 33	N 4	O 6	0
29	Z7	1	Total 43	C 33	N 4	O 6	0
29	a7	1	Total 43	C 33	N 4	O 6	0
29	a7	1	Total 43	C 33	N 4	O 6	0
29	a7	1	Total 43	C 33	N 4	O 6	0
29	b7	1	Total 43	C 33	N 4	O 6	0
29	b7	1	Total 43	C 33	N 4	O 6	0
29	c7	1	Total 43	C 33	N 4	O 6	0
29	c7	1	Total 43	C 33	N 4	O 6	0
29	c7	1	Total 43	C 33	N 4	O 6	0
29	d7	1	Total 43	C 33	N 4	O 6	0
29	d7	1	Total 43	C 33	N 4	O 6	0
29	e7	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	e7	1	Total 43	C 33	N 4	O 6	0
29	e7	1	Total 43	C 33	N 4	O 6	0
29	f7	1	Total 43	C 33	N 4	O 6	0
29	f7	1	Total 43	C 33	N 4	O 6	0
29	g7	1	Total 43	C 33	N 4	O 6	0
29	g7	1	Total 43	C 33	N 4	O 6	0
29	g7	1	Total 43	C 33	N 4	O 6	0
29	h7	1	Total 43	C 33	N 4	O 6	0
29	h7	1	Total 43	C 33	N 4	O 6	0
29	i7	1	Total 43	C 33	N 4	O 6	0
29	i7	1	Total 43	C 33	N 4	O 6	0
29	i7	1	Total 43	C 33	N 4	O 6	0
29	j7	1	Total 43	C 33	N 4	O 6	0
29	j7	1	Total 43	C 33	N 4	O 6	0
29	k7	1	Total 43	C 33	N 4	O 6	0
29	k7	1	Total 43	C 33	N 4	O 6	0
29	k7	1	Total 43	C 33	N 4	O 6	0
29	l7	1	Total 43	C 33	N 4	O 6	0
29	l7	1	Total 43	C 33	N 4	O 6	0
29	m7	1	Total 43	C 33	N 4	O 6	0
29	m7	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	m7	1	Total 43	C 33	N 4	O 6	0
29	B8	1	Total 43	C 33	N 4	O 6	0
29	B8	1	Total 43	C 33	N 4	O 6	0
29	B8	1	Total 43	C 33	N 4	O 6	0
29	F8	1	Total 43	C 33	N 4	O 6	0
29	F8	1	Total 43	C 33	N 4	O 6	0
29	F8	1	Total 43	C 33	N 4	O 6	0
29	G8	1	Total 43	C 33	N 4	O 6	0
29	G8	1	Total 43	C 33	N 4	O 6	0
29	G8	1	Total 43	C 33	N 4	O 6	0
29	H8	1	Total 43	C 33	N 4	O 6	0
29	H8	1	Total 43	C 33	N 4	O 6	0
29	H8	1	Total 43	C 33	N 4	O 6	0
29	I8	1	Total 43	C 33	N 4	O 6	0
29	I8	1	Total 43	C 33	N 4	O 6	0
29	I8	1	Total 43	C 33	N 4	O 6	0
29	J8	1	Total 43	C 33	N 4	O 6	0
29	J8	1	Total 43	C 33	N 4	O 6	0
29	K8	1	Total 43	C 33	N 4	O 6	0
29	K8	1	Total 43	C 33	N 4	O 6	0
29	K8	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	L8	1	Total 43	C 33	N 4	O 6	0
29	L8	1	Total 43	C 33	N 4	O 6	0
29	L8	1	Total 43	C 33	N 4	O 6	0
29	A8	1	Total 43	C 33	N 4	O 6	0
29	A8	1	Total 43	C 33	N 4	O 6	0
29	A8	1	Total 43	C 33	N 4	O 6	0
29	C8	1	Total 43	C 33	N 4	O 6	0
29	C8	1	Total 43	C 33	N 4	O 6	0
29	C8	1	Total 43	C 33	N 4	O 6	0
29	A9	1	Total 43	C 33	N 4	O 6	0
29	A9	1	Total 43	C 33	N 4	O 6	0
29	A9	1	Total 43	C 33	N 4	O 6	0
29	D9	1	Total 43	C 33	N 4	O 6	0
29	F9	1	Total 43	C 33	N 4	O 6	0
29	H9	1	Total 43	C 33	N 4	O 6	0
29	J9	1	Total 43	C 33	N 4	O 6	0
29	L9	1	Total 43	C 33	N 4	O 6	0
29	N9	1	Total 43	C 33	N 4	O 6	0
29	O9	1	Total 43	C 33	N 4	O 6	0
29	O9	1	Total 43	C 33	N 4	O 6	0
29	P9	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	P9	1	Total 43	C 33	N 4	O 6	0
29	P9	1	Total 43	C 33	N 4	O 6	0
29	Q9	1	Total 43	C 33	N 4	O 6	0
29	Q9	1	Total 43	C 33	N 4	O 6	0
29	R9	1	Total 43	C 33	N 4	O 6	0
29	R9	1	Total 43	C 33	N 4	O 6	0
29	R9	1	Total 43	C 33	N 4	O 6	0
29	S9	1	Total 43	C 33	N 4	O 6	0
29	S9	1	Total 43	C 33	N 4	O 6	0
29	T9	1	Total 43	C 33	N 4	O 6	0
29	T9	1	Total 43	C 33	N 4	O 6	0
29	T9	1	Total 43	C 33	N 4	O 6	0
29	U9	1	Total 43	C 33	N 4	O 6	0
29	U9	1	Total 43	C 33	N 4	O 6	0
29	V9	1	Total 43	C 33	N 4	O 6	0
29	V9	1	Total 43	C 33	N 4	O 6	0
29	V9	1	Total 43	C 33	N 4	O 6	0
29	W9	1	Total 43	C 33	N 4	O 6	0
29	W9	1	Total 43	C 33	N 4	O 6	0
29	Y9	1	Total 43	C 33	N 4	O 6	0
29	Y9	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	Y9	1	Total 43	C 33	N 4	O 6	0
29	Z9	1	Total 43	C 33	N 4	O 6	0
29	Z9	1	Total 43	C 33	N 4	O 6	0
29	a9	1	Total 43	C 33	N 4	O 6	0
29	a9	1	Total 43	C 33	N 4	O 6	0
29	a9	1	Total 43	C 33	N 4	O 6	0
29	b9	1	Total 43	C 33	N 4	O 6	0
29	b9	1	Total 43	C 33	N 4	O 6	0
29	c9	1	Total 43	C 33	N 4	O 6	0
29	c9	1	Total 43	C 33	N 4	O 6	0
29	c9	1	Total 43	C 33	N 4	O 6	0
29	c9	1	Total 43	C 33	N 4	O 6	0
29	d9	1	Total 43	C 33	N 4	O 6	0
29	d9	1	Total 43	C 33	N 4	O 6	0
29	e9	1	Total 43	C 33	N 4	O 6	0
29	e9	1	Total 43	C 33	N 4	O 6	0
29	e9	1	Total 43	C 33	N 4	O 6	0
29	f9	1	Total 43	C 33	N 4	O 6	0
29	f9	1	Total 43	C 33	N 4	O 6	0
29	g9	1	Total 43	C 33	N 4	O 6	0
29	g9	1	Total 43	C 33	N 4	O 6	0
29	g9	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	h9	1	Total 43	C 33	N 4	O 6	0
29	h9	1	Total 43	C 33	N 4	O 6	0
29	i9	1	Total 43	C 33	N 4	O 6	0
29	i9	1	Total 43	C 33	N 4	O 6	0
29	i9	1	Total 43	C 33	N 4	O 6	0
29	j9	1	Total 43	C 33	N 4	O 6	0
29	j9	1	Total 43	C 33	N 4	O 6	0
29	k9	1	Total 43	C 33	N 4	O 6	0
29	k9	1	Total 43	C 33	N 4	O 6	0
29	k9	1	Total 43	C 33	N 4	O 6	0
29	l9	1	Total 43	C 33	N 4	O 6	0
29	l9	1	Total 43	C 33	N 4	O 6	0
29	m9	1	Total 43	C 33	N 4	O 6	0
29	m9	1	Total 43	C 33	N 4	O 6	0
29	m9	1	Total 43	C 33	N 4	O 6	0
29	AA	1	Total 43	C 33	N 4	O 6	0
29	AA	1	Total 43	C 33	N 4	O 6	0
29	BA	1	Total 43	C 33	N 4	O 6	0
29	BA	1	Total 43	C 33	N 4	O 6	0
29	BA	1	Total 43	C 33	N 4	O 6	0
29	CA	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	CA	1	Total 43	C 33	N 4	O 6	0
29	DA	1	Total 43	C 33	N 4	O 6	0
29	DA	1	Total 43	C 33	N 4	O 6	0
29	DA	1	Total 43	C 33	N 4	O 6	0
29	EA	1	Total 43	C 33	N 4	O 6	0
29	EA	1	Total 43	C 33	N 4	O 6	0
29	FA	1	Total 43	C 33	N 4	O 6	0
29	FA	1	Total 43	C 33	N 4	O 6	0
29	FA	1	Total 43	C 33	N 4	O 6	0
29	GA	1	Total 43	C 33	N 4	O 6	0
29	GA	1	Total 43	C 33	N 4	O 6	0
29	HA	1	Total 43	C 33	N 4	O 6	0
29	HA	1	Total 43	C 33	N 4	O 6	0
29	HA	1	Total 43	C 33	N 4	O 6	0
29	IA	1	Total 43	C 33	N 4	O 6	0
29	IA	1	Total 43	C 33	N 4	O 6	0
29	JA	1	Total 43	C 33	N 4	O 6	0
29	JA	1	Total 43	C 33	N 4	O 6	0
29	JA	1	Total 43	C 33	N 4	O 6	0
29	KA	1	Total 43	C 33	N 4	O 6	0
29	KA	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	LA	1	Total 43	C 33	N 4	O 6	0
29	LA	1	Total 43	C 33	N 4	O 6	0
29	LA	1	Total 43	C 33	N 4	O 6	0
29	MA	1	Total 43	C 33	N 4	O 6	0
29	MA	1	Total 43	C 33	N 4	O 6	0
29	MA	1	Total 43	C 33	N 4	O 6	0
29	AB	1	Total 43	C 33	N 4	O 6	0
29	AB	1	Total 43	C 33	N 4	O 6	0
29	AB	1	Total 43	C 33	N 4	O 6	0
29	BB	1	Total 43	C 33	N 4	O 6	0
29	CB	1	Total 43	C 33	N 4	O 6	0
29	CB	1	Total 43	C 33	N 4	O 6	0
29	DB	1	Total 43	C 33	N 4	O 6	0
29	DB	1	Total 43	C 33	N 4	O 6	0
29	DB	1	Total 43	C 33	N 4	O 6	0
29	EB	1	Total 43	C 33	N 4	O 6	0
29	EB	1	Total 43	C 33	N 4	O 6	0
29	FB	1	Total 43	C 33	N 4	O 6	0
29	FB	1	Total 43	C 33	N 4	O 6	0
29	FB	1	Total 43	C 33	N 4	O 6	0
29	GB	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	GB	1	Total 43	C 33	N 4	O 6	0
29	HB	1	Total 43	C 33	N 4	O 6	0
29	HB	1	Total 43	C 33	N 4	O 6	0
29	HB	1	Total 43	C 33	N 4	O 6	0
29	IB	1	Total 43	C 33	N 4	O 6	0
29	IB	1	Total 43	C 33	N 4	O 6	0
29	JB	1	Total 43	C 33	N 4	O 6	0
29	JB	1	Total 43	C 33	N 4	O 6	0
29	JB	1	Total 43	C 33	N 4	O 6	0
29	KB	1	Total 43	C 33	N 4	O 6	0
29	KB	1	Total 43	C 33	N 4	O 6	0
29	KB	1	Total 43	C 33	N 4	O 6	0
29	LB	1	Total 43	C 33	N 4	O 6	0
29	LB	1	Total 43	C 33	N 4	O 6	0
29	LB	1	Total 43	C 33	N 4	O 6	0
29	MB	1	Total 43	C 33	N 4	O 6	0
29	MB	1	Total 43	C 33	N 4	O 6	0
29	NB	1	Total 43	C 33	N 4	O 6	0
29	NB	1	Total 43	C 33	N 4	O 6	0
29	OB	1	Total 43	C 33	N 4	O 6	0
29	OB	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	PB	1	Total 43	C 33	N 4	O 6	0
29	PB	1	Total 43	C 33	N 4	O 6	0
29	QB	1	Total 43	C 33	N 4	O 6	0
29	QB	1	Total 43	C 33	N 4	O 6	0
29	QB	1	Total 43	C 33	N 4	O 6	0
29	RB	1	Total 43	C 33	N 4	O 6	0
29	RB	1	Total 43	C 33	N 4	O 6	0
29	RB	1	Total 43	C 33	N 4	O 6	0
29	SB	1	Total 43	C 33	N 4	O 6	0
29	SB	1	Total 43	C 33	N 4	O 6	0
29	TB	1	Total 43	C 33	N 4	O 6	0
29	TB	1	Total 43	C 33	N 4	O 6	0
29	TB	1	Total 43	C 33	N 4	O 6	0
29	UB	1	Total 43	C 33	N 4	O 6	0
29	UB	1	Total 43	C 33	N 4	O 6	0
29	VB	1	Total 43	C 33	N 4	O 6	0
29	VB	1	Total 43	C 33	N 4	O 6	0
29	VB	1	Total 43	C 33	N 4	O 6	0
29	WB	1	Total 43	C 33	N 4	O 6	0
29	WB	1	Total 43	C 33	N 4	O 6	0
29	XB	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	XB	1	Total 43	C 33	N 4	O 6	0
29	YB	1	Total 43	C 33	N 4	O 6	0
29	YB	1	Total 43	C 33	N 4	O 6	0
29	YB	1	Total 43	C 33	N 4	O 6	0
29	ZB	1	Total 43	C 33	N 4	O 6	0
29	ZB	1	Total 43	C 33	N 4	O 6	0
29	ZB	1	Total 43	C 33	N 4	O 6	0
29	aB	1	Total 43	C 33	N 4	O 6	0
29	aB	1	Total 43	C 33	N 4	O 6	0
29	aB	1	Total 43	C 33	N 4	O 6	0
29	cB	1	Total 43	C 33	N 4	O 6	0
29	cB	1	Total 43	C 33	N 4	O 6	0
29	cB	1	Total 43	C 33	N 4	O 6	0
29	dB	1	Total 43	C 33	N 4	O 6	0
29	dB	1	Total 43	C 33	N 4	O 6	0
29	eB	1	Total 43	C 33	N 4	O 6	0
29	eB	1	Total 43	C 33	N 4	O 6	0
29	fB	1	Total 43	C 33	N 4	O 6	0
29	fB	1	Total 43	C 33	N 4	O 6	0
29	gB	1	Total 43	C 33	N 4	O 6	0
29	gB	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	gB	1	Total 43	C 33	N 4	O 6	0
29	hB	1	Total 43	C 33	N 4	O 6	0
29	hB	1	Total 43	C 33	N 4	O 6	0
29	iB	1	Total 43	C 33	N 4	O 6	0
29	iB	1	Total 43	C 33	N 4	O 6	0
29	iB	1	Total 43	C 33	N 4	O 6	0
29	jB	1	Total 43	C 33	N 4	O 6	0
29	jB	1	Total 43	C 33	N 4	O 6	0
29	kB	1	Total 43	C 33	N 4	O 6	0
29	kB	1	Total 43	C 33	N 4	O 6	0
29	kB	1	Total 43	C 33	N 4	O 6	0
29	lB	1	Total 43	C 33	N 4	O 6	0
29	lB	1	Total 43	C 33	N 4	O 6	0
29	mB	1	Total 43	C 33	N 4	O 6	0
29	mB	1	Total 43	C 33	N 4	O 6	0
29	mB	1	Total 43	C 33	N 4	O 6	0
29	AC	1	Total 43	C 33	N 4	O 6	0
29	AC	1	Total 43	C 33	N 4	O 6	0
29	AC	1	Total 43	C 33	N 4	O 6	0
29	BC	1	Total 43	C 33	N 4	O 6	0
29	BC	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	BC	1	Total 43	C 33	N 4	O 6	0
29	CC	1	Total 43	C 33	N 4	O 6	0
29	CC	1	Total 43	C 33	N 4	O 6	0
29	DC	1	Total 43	C 33	N 4	O 6	0
29	DC	1	Total 43	C 33	N 4	O 6	0
29	EC	1	Total 43	C 33	N 4	O 6	0
29	EC	1	Total 43	C 33	N 4	O 6	0
29	FC	1	Total 43	C 33	N 4	O 6	0
29	FC	1	Total 43	C 33	N 4	O 6	0
29	FC	1	Total 43	C 33	N 4	O 6	0
29	GC	1	Total 43	C 33	N 4	O 6	0
29	GC	1	Total 43	C 33	N 4	O 6	0
29	HC	1	Total 43	C 33	N 4	O 6	0
29	HC	1	Total 43	C 33	N 4	O 6	0
29	HC	1	Total 43	C 33	N 4	O 6	0
29	IC	1	Total 43	C 33	N 4	O 6	0
29	IC	1	Total 43	C 33	N 4	O 6	0
29	JC	1	Total 43	C 33	N 4	O 6	0
29	JC	1	Total 43	C 33	N 4	O 6	0
29	KC	1	Total 43	C 33	N 4	O 6	0
29	KC	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	KC	1	Total 43	C 33	N 4	O 6	0
29	LC	1	Total 43	C 33	N 4	O 6	0
29	LC	1	Total 43	C 33	N 4	O 6	0
29	LC	1	Total 43	C 33	N 4	O 6	0
29	dD	1	Total 43	C 33	N 4	O 6	0
29	BD	1	Total 43	C 33	N 4	O 6	0
29	BD	1	Total 43	C 33	N 4	O 6	0
29	CD	1	Total 43	C 33	N 4	O 6	0
29	CD	1	Total 43	C 33	N 4	O 6	0
29	CD	1	Total 43	C 33	N 4	O 6	0
29	DD	1	Total 43	C 33	N 4	O 6	0
29	DD	1	Total 43	C 33	N 4	O 6	0
29	ED	1	Total 43	C 33	N 4	O 6	0
29	ED	1	Total 43	C 33	N 4	O 6	0
29	FD	1	Total 43	C 33	N 4	O 6	0
29	FD	1	Total 43	C 33	N 4	O 6	0
29	GD	1	Total 43	C 33	N 4	O 6	0
29	GD	1	Total 43	C 33	N 4	O 6	0
29	GD	1	Total 43	C 33	N 4	O 6	0
29	HD	1	Total 43	C 33	N 4	O 6	0
29	HD	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	ID	1	Total 43	C 33	N 4	O 6	0
29	ID	1	Total 43	C 33	N 4	O 6	0
29	ID	1	Total 43	C 33	N 4	O 6	0
29	JD	1	Total 43	C 33	N 4	O 6	0
29	JD	1	Total 43	C 33	N 4	O 6	0
29	KD	1	Total 43	C 33	N 4	O 6	0
29	KD	1	Total 43	C 33	N 4	O 6	0
29	KD	1	Total 43	C 33	N 4	O 6	0
29	LD	1	Total 43	C 33	N 4	O 6	0
29	LD	1	Total 43	C 33	N 4	O 6	0
29	MD	1	Total 43	C 33	N 4	O 6	0
29	MD	1	Total 43	C 33	N 4	O 6	0
29	MD	1	Total 43	C 33	N 4	O 6	0
29	AE	1	Total 43	C 33	N 4	O 6	0
29	AE	1	Total 43	C 33	N 4	O 6	0
29	AE	1	Total 43	C 33	N 4	O 6	0
29	BE	1	Total 43	C 33	N 4	O 6	0
29	BE	1	Total 43	C 33	N 4	O 6	0
29	BE	1	Total 43	C 33	N 4	O 6	0
29	CE	1	Total 43	C 33	N 4	O 6	0
29	CE	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	DE	1	Total 43	C 33	N 4	O 6	0
29	DE	1	Total 43	C 33	N 4	O 6	0
29	EE	1	Total 43	C 33	N 4	O 6	0
29	EE	1	Total 43	C 33	N 4	O 6	0
29	FE	1	Total 43	C 33	N 4	O 6	0
29	FE	1	Total 43	C 33	N 4	O 6	0
29	FE	1	Total 43	C 33	N 4	O 6	0
29	GE	1	Total 43	C 33	N 4	O 6	0
29	GE	1	Total 43	C 33	N 4	O 6	0
29	HE	1	Total 43	C 33	N 4	O 6	0
29	HE	1	Total 43	C 33	N 4	O 6	0
29	HE	1	Total 43	C 33	N 4	O 6	0
29	IE	1	Total 43	C 33	N 4	O 6	0
29	IE	1	Total 43	C 33	N 4	O 6	0
29	JE	1	Total 43	C 33	N 4	O 6	0
29	JE	1	Total 43	C 33	N 4	O 6	0
29	KE	1	Total 43	C 33	N 4	O 6	0
29	KE	1	Total 43	C 33	N 4	O 6	0
29	KE	1	Total 43	C 33	N 4	O 6	0
29	LE	1	Total 43	C 33	N 4	O 6	0
29	LE	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	LE	1	Total 43	C 33	N 4	O 6	0
29	AF	1	Total 43	C 33	N 4	O 6	0
29	AF	1	Total 43	C 33	N 4	O 6	0
29	AF	1	Total 43	C 33	N 4	O 6	0
29	DF	1	Total 43	C 33	N 4	O 6	0
29	FF	1	Total 43	C 33	N 4	O 6	0
29	HF	1	Total 43	C 33	N 4	O 6	0
29	JF	1	Total 43	C 33	N 4	O 6	0
29	LF	1	Total 43	C 33	N 4	O 6	0
29	NF	1	Total 43	C 33	N 4	O 6	0
29	OF	1	Total 43	C 33	N 4	O 6	0
29	OF	1	Total 43	C 33	N 4	O 6	0
29	OF	1	Total 43	C 33	N 4	O 6	0
29	PF	1	Total 43	C 33	N 4	O 6	0
29	PF	1	Total 43	C 33	N 4	O 6	0
29	PF	1	Total 43	C 33	N 4	O 6	0
29	QF	1	Total 43	C 33	N 4	O 6	0
29	QF	1	Total 43	C 33	N 4	O 6	0
29	RF	1	Total 43	C 33	N 4	O 6	0
29	RF	1	Total 43	C 33	N 4	O 6	0
29	SF	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	SF	1	Total 43	C 33	N 4	O 6	0
29	TF	1	Total 43	C 33	N 4	O 6	0
29	TF	1	Total 43	C 33	N 4	O 6	0
29	UF	1	Total 43	C 33	N 4	O 6	0
29	UF	1	Total 43	C 33	N 4	O 6	0
29	UF	1	Total 43	C 33	N 4	O 6	0
29	VF	1	Total 43	C 33	N 4	O 6	0
29	VF	1	Total 43	C 33	N 4	O 6	0
29	VF	1	Total 43	C 33	N 4	O 6	0
29	WF	1	Total 43	C 33	N 4	O 6	0
29	WF	1	Total 43	C 33	N 4	O 6	0
29	YF	1	Total 43	C 33	N 4	O 6	0
29	YF	1	Total 43	C 33	N 4	O 6	0
29	YF	1	Total 43	C 33	N 4	O 6	0
29	ZF	1	Total 43	C 33	N 4	O 6	0
29	ZF	1	Total 43	C 33	N 4	O 6	0
29	aF	1	Total 43	C 33	N 4	O 6	0
29	aF	1	Total 43	C 33	N 4	O 6	0
29	aF	1	Total 43	C 33	N 4	O 6	0
29	bF	1	Total 43	C 33	N 4	O 6	0
29	bF	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	cF	1	Total 43	C 33	N 4	O 6	0
29	cF	1	Total 43	C 33	N 4	O 6	0
29	dF	1	Total 43	C 33	N 4	O 6	0
29	dF	1	Total 43	C 33	N 4	O 6	0
29	dF	1	Total 43	C 33	N 4	O 6	0
29	eF	1	Total 43	C 33	N 4	O 6	0
29	eF	1	Total 43	C 33	N 4	O 6	0
29	eF	1	Total 43	C 33	N 4	O 6	0
29	fF	1	Total 43	C 33	N 4	O 6	0
29	fF	1	Total 43	C 33	N 4	O 6	0
29	gF	1	Total 43	C 33	N 4	O 6	0
29	gF	1	Total 43	C 33	N 4	O 6	0
29	gF	1	Total 43	C 33	N 4	O 6	0
29	hF	1	Total 43	C 33	N 4	O 6	0
29	hF	1	Total 43	C 33	N 4	O 6	0
29	iF	1	Total 43	C 33	N 4	O 6	0
29	iF	1	Total 43	C 33	N 4	O 6	0
29	iF	1	Total 43	C 33	N 4	O 6	0
29	jF	1	Total 43	C 33	N 4	O 6	0
29	jF	1	Total 43	C 33	N 4	O 6	0
29	kF	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	kF	1	Total 43	C 33	N 4	O 6	0
29	kF	1	Total 43	C 33	N 4	O 6	0
29	lF	1	Total 43	C 33	N 4	O 6	0
29	lF	1	Total 43	C 33	N 4	O 6	0
29	mF	1	Total 43	C 33	N 4	O 6	0
29	mF	1	Total 43	C 33	N 4	O 6	0
29	mF	1	Total 43	C 33	N 4	O 6	0
29	AG	1	Total 43	C 33	N 4	O 6	0
29	AG	1	Total 43	C 33	N 4	O 6	0
29	BG	1	Total 43	C 33	N 4	O 6	0
29	BG	1	Total 43	C 33	N 4	O 6	0
29	BG	1	Total 43	C 33	N 4	O 6	0
29	CG	1	Total 43	C 33	N 4	O 6	0
29	CG	1	Total 43	C 33	N 4	O 6	0
29	DG	1	Total 43	C 33	N 4	O 6	0
29	DG	1	Total 43	C 33	N 4	O 6	0
29	DG	1	Total 43	C 33	N 4	O 6	0
29	EG	1	Total 43	C 33	N 4	O 6	0
29	EG	1	Total 43	C 33	N 4	O 6	0
29	FG	1	Total 43	C 33	N 4	O 6	0
29	FG	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	FG	1	Total 43	C 33	N 4	O 6	0
29	GG	1	Total 43	C 33	N 4	O 6	0
29	GG	1	Total 43	C 33	N 4	O 6	0
29	HG	1	Total 43	C 33	N 4	O 6	0
29	HG	1	Total 43	C 33	N 4	O 6	0
29	HG	1	Total 43	C 33	N 4	O 6	0
29	IG	1	Total 43	C 33	N 4	O 6	0
29	IG	1	Total 43	C 33	N 4	O 6	0
29	JG	1	Total 43	C 33	N 4	O 6	0
29	JG	1	Total 43	C 33	N 4	O 6	0
29	JG	1	Total 43	C 33	N 4	O 6	0
29	KG	1	Total 43	C 33	N 4	O 6	0
29	KG	1	Total 43	C 33	N 4	O 6	0
29	LG	1	Total 43	C 33	N 4	O 6	0
29	LG	1	Total 43	C 33	N 4	O 6	0
29	LG	1	Total 43	C 33	N 4	O 6	0
29	MG	1	Total 43	C 33	N 4	O 6	0
29	MG	1	Total 43	C 33	N 4	O 6	0
29	MG	1	Total 43	C 33	N 4	O 6	0
29	AI	1	Total 43	C 33	N 4	O 6	0
29	AI	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	AI	1	Total 43	C 33	N 4	O 6	0
29	DI	1	Total 43	C 33	N 4	O 6	0
29	FI	1	Total 43	C 33	N 4	O 6	0
29	HI	1	Total 43	C 33	N 4	O 6	0
29	JI	1	Total 43	C 33	N 4	O 6	0
29	LI	1	Total 43	C 33	N 4	O 6	0
29	NI	1	Total 43	C 33	N 4	O 6	0
29	OI	1	Total 43	C 33	N 4	O 6	0
29	OI	1	Total 43	C 33	N 4	O 6	0
29	OI	1	Total 43	C 33	N 4	O 6	0
29	PI	1	Total 43	C 33	N 4	O 6	0
29	PI	1	Total 43	C 33	N 4	O 6	0
29	PI	1	Total 43	C 33	N 4	O 6	0
29	QI	1	Total 43	C 33	N 4	O 6	0
29	QI	1	Total 43	C 33	N 4	O 6	0
29	RI	1	Total 43	C 33	N 4	O 6	0
29	RI	1	Total 43	C 33	N 4	O 6	0
29	SI	1	Total 43	C 33	N 4	O 6	0
29	SI	1	Total 43	C 33	N 4	O 6	0
29	TI	1	Total 43	C 33	N 4	O 6	0
29	TI	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	UI	1	Total 43	C 33	N 4	O 6	0
29	UI	1	Total 43	C 33	N 4	O 6	0
29	UI	1	Total 43	C 33	N 4	O 6	0
29	VI	1	Total 43	C 33	N 4	O 6	0
29	VI	1	Total 43	C 33	N 4	O 6	0
29	VI	1	Total 43	C 33	N 4	O 6	0
29	WI	1	Total 43	C 33	N 4	O 6	0
29	WI	1	Total 43	C 33	N 4	O 6	0
29	YI	1	Total 43	C 33	N 4	O 6	0
29	YI	1	Total 43	C 33	N 4	O 6	0
29	YI	1	Total 43	C 33	N 4	O 6	0
29	ZI	1	Total 43	C 33	N 4	O 6	0
29	ZI	1	Total 43	C 33	N 4	O 6	0
29	aI	1	Total 43	C 33	N 4	O 6	0
29	aI	1	Total 43	C 33	N 4	O 6	0
29	aI	1	Total 43	C 33	N 4	O 6	0
29	bI	1	Total 43	C 33	N 4	O 6	0
29	bI	1	Total 43	C 33	N 4	O 6	0
29	cI	1	Total 43	C 33	N 4	O 6	0
29	cI	1	Total 43	C 33	N 4	O 6	0
29	dI	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	dI	1	Total 43	C 33	N 4	O 6	0
29	dI	1	Total 43	C 33	N 4	O 6	0
29	eI	1	Total 43	C 33	N 4	O 6	0
29	eI	1	Total 43	C 33	N 4	O 6	0
29	eI	1	Total 43	C 33	N 4	O 6	0
29	fI	1	Total 43	C 33	N 4	O 6	0
29	fI	1	Total 43	C 33	N 4	O 6	0
29	gI	1	Total 43	C 33	N 4	O 6	0
29	gI	1	Total 43	C 33	N 4	O 6	0
29	gI	1	Total 43	C 33	N 4	O 6	0
29	hI	1	Total 43	C 33	N 4	O 6	0
29	hI	1	Total 43	C 33	N 4	O 6	0
29	iI	1	Total 43	C 33	N 4	O 6	0
29	iI	1	Total 43	C 33	N 4	O 6	0
29	iI	1	Total 43	C 33	N 4	O 6	0
29	jI	1	Total 43	C 33	N 4	O 6	0
29	jI	1	Total 43	C 33	N 4	O 6	0
29	kI	1	Total 43	C 33	N 4	O 6	0
29	kI	1	Total 43	C 33	N 4	O 6	0
29	kI	1	Total 43	C 33	N 4	O 6	0
29	lI	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	lI	1	Total 43	C 33	N 4	O 6	0
29	mI	1	Total 43	C 33	N 4	O 6	0
29	mI	1	Total 43	C 33	N 4	O 6	0
29	mI	1	Total 43	C 33	N 4	O 6	0
29	AJ	1	Total 43	C 33	N 4	O 6	0
29	AJ	1	Total 43	C 33	N 4	O 6	0
29	AJ	1	Total 43	C 33	N 4	O 6	0
29	BJ	1	Total 43	C 33	N 4	O 6	0
29	BJ	1	Total 43	C 33	N 4	O 6	0
29	BJ	1	Total 43	C 33	N 4	O 6	0
29	CJ	1	Total 43	C 33	N 4	O 6	0
29	CJ	1	Total 43	C 33	N 4	O 6	0
29	DJ	1	Total 43	C 33	N 4	O 6	0
29	DJ	1	Total 43	C 33	N 4	O 6	0
29	EJ	1	Total 43	C 33	N 4	O 6	0
29	EJ	1	Total 43	C 33	N 4	O 6	0
29	FJ	1	Total 43	C 33	N 4	O 6	0
29	FJ	1	Total 43	C 33	N 4	O 6	0
29	FJ	1	Total 43	C 33	N 4	O 6	0
29	GJ	1	Total 43	C 33	N 4	O 6	0
29	GJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	HJ	1	Total 43	C 33	N 4	O 6	0
29	HJ	1	Total 43	C 33	N 4	O 6	0
29	IJ	1	Total 43	C 33	N 4	O 6	0
29	IJ	1	Total 43	C 33	N 4	O 6	0
29	IJ	1	Total 43	C 33	N 4	O 6	0
29	JJ	1	Total 43	C 33	N 4	O 6	0
29	JJ	1	Total 43	C 33	N 4	O 6	0
29	JJ	1	Total 43	C 33	N 4	O 6	0
29	KJ	1	Total 43	C 33	N 4	O 6	0
29	KJ	1	Total 43	C 33	N 4	O 6	0
29	LJ	1	Total 43	C 33	N 4	O 6	0
29	LJ	1	Total 43	C 33	N 4	O 6	0
29	MJ	1	Total 43	C 33	N 4	O 6	0
29	MJ	1	Total 43	C 33	N 4	O 6	0
29	NJ	1	Total 43	C 33	N 4	O 6	0
29	NJ	1	Total 43	C 33	N 4	O 6	0
29	NJ	1	Total 43	C 33	N 4	O 6	0
29	OJ	1	Total 43	C 33	N 4	O 6	0
29	OJ	1	Total 43	C 33	N 4	O 6	0
29	PJ	1	Total 43	C 33	N 4	O 6	0
29	PJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	PJ	1	Total 43	C 33	N 4	O 6	0
29	QJ	1	Total 43	C 33	N 4	O 6	0
29	QJ	1	Total 43	C 33	N 4	O 6	0
29	RJ	1	Total 43	C 33	N 4	O 6	0
29	RJ	1	Total 43	C 33	N 4	O 6	0
29	RJ	1	Total 43	C 33	N 4	O 6	0
29	SJ	1	Total 43	C 33	N 4	O 6	0
29	SJ	1	Total 43	C 33	N 4	O 6	0
29	TJ	1	Total 43	C 33	N 4	O 6	0
29	TJ	1	Total 43	C 33	N 4	O 6	0
29	TJ	1	Total 43	C 33	N 4	O 6	0
29	UJ	1	Total 43	C 33	N 4	O 6	0
29	UJ	1	Total 43	C 33	N 4	O 6	0
29	VJ	1	Total 43	C 33	N 4	O 6	0
29	VJ	1	Total 43	C 33	N 4	O 6	0
29	WJ	1	Total 43	C 33	N 4	O 6	0
29	WJ	1	Total 43	C 33	N 4	O 6	0
29	WJ	1	Total 43	C 33	N 4	O 6	0
29	XJ	1	Total 43	C 33	N 4	O 6	0
29	XJ	1	Total 43	C 33	N 4	O 6	0
29	XJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	YJ	1	Total 43	C 33	N 4	O 6	0
29	YJ	1	Total 43	C 33	N 4	O 6	0
29	ZJ	1	Total 43	C 33	N 4	O 6	0
29	ZJ	1	Total 43	C 33	N 4	O 6	0
29	ZJ	1	Total 43	C 33	N 4	O 6	0
29	aJ	1	Total 43	C 33	N 4	O 6	0
29	aJ	1	Total 43	C 33	N 4	O 6	0
29	bJ	1	Total 43	C 33	N 4	O 6	0
29	bJ	1	Total 43	C 33	N 4	O 6	0
29	bJ	1	Total 43	C 33	N 4	O 6	0
29	cJ	1	Total 43	C 33	N 4	O 6	0
29	cJ	1	Total 43	C 33	N 4	O 6	0
29	dJ	1	Total 43	C 33	N 4	O 6	0
29	dJ	1	Total 43	C 33	N 4	O 6	0
29	dJ	1	Total 43	C 33	N 4	O 6	0
29	eJ	1	Total 43	C 33	N 4	O 6	0
29	eJ	1	Total 43	C 33	N 4	O 6	0
29	fJ	1	Total 43	C 33	N 4	O 6	0
29	fJ	1	Total 43	C 33	N 4	O 6	0
29	fJ	1	Total 43	C 33	N 4	O 6	0
29	gJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	gJ	1	Total 43	C 33	N 4	O 6	0
29	hJ	1	Total 43	C 33	N 4	O 6	0
29	hJ	1	Total 43	C 33	N 4	O 6	0
29	hJ	1	Total 43	C 33	N 4	O 6	0
29	iJ	1	Total 43	C 33	N 4	O 6	0
29	iJ	1	Total 43	C 33	N 4	O 6	0
29	jJ	1	Total 43	C 33	N 4	O 6	0
29	jJ	1	Total 43	C 33	N 4	O 6	0
29	jJ	1	Total 43	C 33	N 4	O 6	0
29	kJ	1	Total 43	C 33	N 4	O 6	0
29	kJ	1	Total 43	C 33	N 4	O 6	0
29	lJ	1	Total 43	C 33	N 4	O 6	0
29	lJ	1	Total 43	C 33	N 4	O 6	0
29	lJ	1	Total 43	C 33	N 4	O 6	0
29	mJ	1	Total 43	C 33	N 4	O 6	0
29	mJ	1	Total 43	C 33	N 4	O 6	0
29	nJ	1	Total 43	C 33	N 4	O 6	0
29	nJ	1	Total 43	C 33	N 4	O 6	0
29	nJ	1	Total 43	C 33	N 4	O 6	0
29	oJ	1	Total 43	C 33	N 4	O 6	0
29	oJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	pJ	1	Total 43	C 33	N 4	O 6	0
29	pJ	1	Total 43	C 33	N 4	O 6	0
29	pJ	1	Total 43	C 33	N 4	O 6	0
29	qJ	1	Total 43	C 33	N 4	O 6	0
29	qJ	1	Total 43	C 33	N 4	O 6	0
29	rJ	1	Total 43	C 33	N 4	O 6	0
29	rJ	1	Total 43	C 33	N 4	O 6	0
29	rJ	1	Total 43	C 33	N 4	O 6	0
29	sJ	1	Total 43	C 33	N 4	O 6	0
29	sJ	1	Total 43	C 33	N 4	O 6	0
29	sJ	1	Total 43	C 33	N 4	O 6	0
29	tJ	1	Total 43	C 33	N 4	O 6	0
29	tJ	1	Total 43	C 33	N 4	O 6	0
29	uJ	1	Total 43	C 33	N 4	O 6	0
29	uJ	1	Total 43	C 33	N 4	O 6	0
29	uJ	1	Total 43	C 33	N 4	O 6	0
29	vJ	1	Total 43	C 33	N 4	O 6	0
29	vJ	1	Total 43	C 33	N 4	O 6	0
29	wJ	1	Total 43	C 33	N 4	O 6	0
29	wJ	1	Total 43	C 33	N 4	O 6	0
29	wJ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	xJ	1	Total 43	C 33	N 4	O 6	0
29	xJ	1	Total 43	C 33	N 4	O 6	0
29	xJ	1	Total 43	C 33	N 4	O 6	0
29	yJ	1	Total 43	C 33	N 4	O 6	0
29	zJ	1	Total 43	C 33	N 4	O 6	0
29	AK	1	Total 43	C 33	N 4	O 6	0
29	AK	1	Total 43	C 33	N 4	O 6	0
29	AK	1	Total 43	C 33	N 4	O 6	0
29	DK	1	Total 43	C 33	N 4	O 6	0
29	FK	1	Total 43	C 33	N 4	O 6	0
29	HK	1	Total 43	C 33	N 4	O 6	0
29	JK	1	Total 43	C 33	N 4	O 6	0
29	LK	1	Total 43	C 33	N 4	O 6	0
29	NK	1	Total 43	C 33	N 4	O 6	0
29	OK	1	Total 43	C 33	N 4	O 6	0
29	OK	1	Total 43	C 33	N 4	O 6	0
29	PK	1	Total 43	C 33	N 4	O 6	0
29	PK	1	Total 43	C 33	N 4	O 6	0
29	PK	1	Total 43	C 33	N 4	O 6	0
29	QK	1	Total 43	C 33	N 4	O 6	0
29	QK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	RK	1	Total 43	C 33	N 4	O 6	0
29	RK	1	Total 43	C 33	N 4	O 6	0
29	RK	1	Total 43	C 33	N 4	O 6	0
29	SK	1	Total 43	C 33	N 4	O 6	0
29	SK	1	Total 43	C 33	N 4	O 6	0
29	TK	1	Total 43	C 33	N 4	O 6	0
29	TK	1	Total 43	C 33	N 4	O 6	0
29	UK	1	Total 43	C 33	N 4	O 6	0
29	UK	1	Total 43	C 33	N 4	O 6	0
29	UK	1	Total 43	C 33	N 4	O 6	0
29	VK	1	Total 43	C 33	N 4	O 6	0
29	VK	1	Total 43	C 33	N 4	O 6	0
29	VK	1	Total 43	C 33	N 4	O 6	0
29	WK	1	Total 43	C 33	N 4	O 6	0
29	WK	1	Total 43	C 33	N 4	O 6	0
29	YK	1	Total 43	C 33	N 4	O 6	0
29	YK	1	Total 43	C 33	N 4	O 6	0
29	ZK	1	Total 43	C 33	N 4	O 6	0
29	ZK	1	Total 43	C 33	N 4	O 6	0
29	ZK	1	Total 43	C 33	N 4	O 6	0
29	aK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	aK	1	Total 43	C 33	N 4	O 6	0
29	aK	1	Total 43	C 33	N 4	O 6	0
29	bK	1	Total 43	C 33	N 4	O 6	0
29	bK	1	Total 43	C 33	N 4	O 6	0
29	cK	1	Total 43	C 33	N 4	O 6	0
29	cK	1	Total 43	C 33	N 4	O 6	0
29	cK	1	Total 43	C 33	N 4	O 6	0
29	dK	1	Total 43	C 33	N 4	O 6	0
29	dK	1	Total 43	C 33	N 4	O 6	0
29	eK	1	Total 43	C 33	N 4	O 6	0
29	eK	1	Total 43	C 33	N 4	O 6	0
29	eK	1	Total 43	C 33	N 4	O 6	0
29	fK	1	Total 43	C 33	N 4	O 6	0
29	fK	1	Total 43	C 33	N 4	O 6	0
29	gK	1	Total 43	C 33	N 4	O 6	0
29	gK	1	Total 43	C 33	N 4	O 6	0
29	gK	1	Total 43	C 33	N 4	O 6	0
29	hK	1	Total 43	C 33	N 4	O 6	0
29	hK	1	Total 43	C 33	N 4	O 6	0
29	iK	1	Total 43	C 33	N 4	O 6	0
29	iK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	iK	1	Total 43	C 33	N 4	O 6	0
29	jK	1	Total 43	C 33	N 4	O 6	0
29	jK	1	Total 43	C 33	N 4	O 6	0
29	jK	1	Total 43	C 33	N 4	O 6	0
29	kK	1	Total 43	C 33	N 4	O 6	0
29	kK	1	Total 43	C 33	N 4	O 6	0
29	kK	1	Total 43	C 33	N 4	O 6	0
29	lK	1	Total 43	C 33	N 4	O 6	0
29	lK	1	Total 43	C 33	N 4	O 6	0
29	mK	1	Total 43	C 33	N 4	O 6	0
29	mK	1	Total 43	C 33	N 4	O 6	0
29	AL	1	Total 43	C 33	N 4	O 6	0
29	AL	1	Total 43	C 33	N 4	O 6	0
29	AL	1	Total 43	C 33	N 4	O 6	0
29	BL	1	Total 43	C 33	N 4	O 6	0
29	BL	1	Total 43	C 33	N 4	O 6	0
29	BL	1	Total 43	C 33	N 4	O 6	0
29	CL	1	Total 43	C 33	N 4	O 6	0
29	CL	1	Total 43	C 33	N 4	O 6	0
29	DL	1	Total 43	C 33	N 4	O 6	0
29	DL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	EL	1	Total 43	C 33	N 4	O 6	0
29	EL	1	Total 43	C 33	N 4	O 6	0
29	FL	1	Total 43	C 33	N 4	O 6	0
29	FL	1	Total 43	C 33	N 4	O 6	0
29	FL	1	Total 43	C 33	N 4	O 6	0
29	GL	1	Total 43	C 33	N 4	O 6	0
29	GL	1	Total 43	C 33	N 4	O 6	0
29	HL	1	Total 43	C 33	N 4	O 6	0
29	HL	1	Total 43	C 33	N 4	O 6	0
29	IL	1	Total 43	C 33	N 4	O 6	0
29	IL	1	Total 43	C 33	N 4	O 6	0
29	IL	1	Total 43	C 33	N 4	O 6	0
29	JL	1	Total 43	C 33	N 4	O 6	0
29	JL	1	Total 43	C 33	N 4	O 6	0
29	JL	1	Total 43	C 33	N 4	O 6	0
29	KL	1	Total 43	C 33	N 4	O 6	0
29	KL	1	Total 43	C 33	N 4	O 6	0
29	LL	1	Total 43	C 33	N 4	O 6	0
29	LL	1	Total 43	C 33	N 4	O 6	0
29	ML	1	Total 43	C 33	N 4	O 6	0
29	ML	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	NL	1	Total 43	C 33	N 4	O 6	0
29	NL	1	Total 43	C 33	N 4	O 6	0
29	NL	1	Total 43	C 33	N 4	O 6	0
29	OL	1	Total 43	C 33	N 4	O 6	0
29	OL	1	Total 43	C 33	N 4	O 6	0
29	PL	1	Total 43	C 33	N 4	O 6	0
29	PL	1	Total 43	C 33	N 4	O 6	0
29	PL	1	Total 43	C 33	N 4	O 6	0
29	QL	1	Total 43	C 33	N 4	O 6	0
29	QL	1	Total 43	C 33	N 4	O 6	0
29	RL	1	Total 43	C 33	N 4	O 6	0
29	RL	1	Total 43	C 33	N 4	O 6	0
29	RL	1	Total 43	C 33	N 4	O 6	0
29	SL	1	Total 43	C 33	N 4	O 6	0
29	SL	1	Total 43	C 33	N 4	O 6	0
29	TL	1	Total 43	C 33	N 4	O 6	0
29	TL	1	Total 43	C 33	N 4	O 6	0
29	TL	1	Total 43	C 33	N 4	O 6	0
29	UL	1	Total 43	C 33	N 4	O 6	0
29	UL	1	Total 43	C 33	N 4	O 6	0
29	VL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	VL	1	Total 43	C 33	N 4	O 6	0
29	WL	1	Total 43	C 33	N 4	O 6	0
29	WL	1	Total 43	C 33	N 4	O 6	0
29	WL	1	Total 43	C 33	N 4	O 6	0
29	XL	1	Total 43	C 33	N 4	O 6	0
29	XL	1	Total 43	C 33	N 4	O 6	0
29	XL	1	Total 43	C 33	N 4	O 6	0
29	YL	1	Total 43	C 33	N 4	O 6	0
29	YL	1	Total 43	C 33	N 4	O 6	0
29	ZL	1	Total 43	C 33	N 4	O 6	0
29	ZL	1	Total 43	C 33	N 4	O 6	0
29	ZL	1	Total 43	C 33	N 4	O 6	0
29	aL	1	Total 43	C 33	N 4	O 6	0
29	aL	1	Total 43	C 33	N 4	O 6	0
29	bL	1	Total 43	C 33	N 4	O 6	0
29	bL	1	Total 43	C 33	N 4	O 6	0
29	bL	1	Total 43	C 33	N 4	O 6	0
29	cL	1	Total 43	C 33	N 4	O 6	0
29	cL	1	Total 43	C 33	N 4	O 6	0
29	dL	1	Total 43	C 33	N 4	O 6	0
29	dL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	dL	1	Total 43	C 33	N 4	O 6	0
29	eL	1	Total 43	C 33	N 4	O 6	0
29	eL	1	Total 43	C 33	N 4	O 6	0
29	fL	1	Total 43	C 33	N 4	O 6	0
29	fL	1	Total 43	C 33	N 4	O 6	0
29	fL	1	Total 43	C 33	N 4	O 6	0
29	gL	1	Total 43	C 33	N 4	O 6	0
29	gL	1	Total 43	C 33	N 4	O 6	0
29	hL	1	Total 43	C 33	N 4	O 6	0
29	hL	1	Total 43	C 33	N 4	O 6	0
29	hL	1	Total 43	C 33	N 4	O 6	0
29	iL	1	Total 43	C 33	N 4	O 6	0
29	iL	1	Total 43	C 33	N 4	O 6	0
29	jL	1	Total 43	C 33	N 4	O 6	0
29	jL	1	Total 43	C 33	N 4	O 6	0
29	jL	1	Total 43	C 33	N 4	O 6	0
29	kL	1	Total 43	C 33	N 4	O 6	0
29	kL	1	Total 43	C 33	N 4	O 6	0
29	lL	1	Total 43	C 33	N 4	O 6	0
29	lL	1	Total 43	C 33	N 4	O 6	0
29	lL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	mL	1	Total 43	C 33	N 4	O 6	0
29	mL	1	Total 43	C 33	N 4	O 6	0
29	nL	1	Total 43	C 33	N 4	O 6	0
29	nL	1	Total 43	C 33	N 4	O 6	0
29	nL	1	Total 43	C 33	N 4	O 6	0
29	oL	1	Total 43	C 33	N 4	O 6	0
29	oL	1	Total 43	C 33	N 4	O 6	0
29	pL	1	Total 43	C 33	N 4	O 6	0
29	pL	1	Total 43	C 33	N 4	O 6	0
29	pL	1	Total 43	C 33	N 4	O 6	0
29	qL	1	Total 43	C 33	N 4	O 6	0
29	qL	1	Total 43	C 33	N 4	O 6	0
29	rL	1	Total 43	C 33	N 4	O 6	0
29	rL	1	Total 43	C 33	N 4	O 6	0
29	rL	1	Total 43	C 33	N 4	O 6	0
29	sL	1	Total 43	C 33	N 4	O 6	0
29	sL	1	Total 43	C 33	N 4	O 6	0
29	sL	1	Total 43	C 33	N 4	O 6	0
29	tL	1	Total 43	C 33	N 4	O 6	0
29	tL	1	Total 43	C 33	N 4	O 6	0
29	uL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	uL	1	Total 43	C 33	N 4	O 6	0
29	uL	1	Total 43	C 33	N 4	O 6	0
29	vL	1	Total 43	C 33	N 4	O 6	0
29	vL	1	Total 43	C 33	N 4	O 6	0
29	wL	1	Total 43	C 33	N 4	O 6	0
29	wL	1	Total 43	C 33	N 4	O 6	0
29	wL	1	Total 43	C 33	N 4	O 6	0
29	xL	1	Total 43	C 33	N 4	O 6	0
29	xL	1	Total 43	C 33	N 4	O 6	0
29	xL	1	Total 43	C 33	N 4	O 6	0
29	yL	1	Total 43	C 33	N 4	O 6	0
29	zL	1	Total 43	C 33	N 4	O 6	0
29	AM	1	Total 43	C 33	N 4	O 6	0
29	AM	1	Total 43	C 33	N 4	O 6	0
29	AM	1	Total 43	C 33	N 4	O 6	0
29	BM	1	Total 43	C 33	N 4	O 6	0
29	CM	1	Total 43	C 33	N 4	O 6	0
29	CM	1	Total 43	C 33	N 4	O 6	0
29	DM	1	Total 43	C 33	N 4	O 6	0
29	DM	1	Total 43	C 33	N 4	O 6	0
29	DM	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	EM	1	Total 43	C 33	N 4	O 6	0
29	EM	1	Total 43	C 33	N 4	O 6	0
29	FM	1	Total 43	C 33	N 4	O 6	0
29	FM	1	Total 43	C 33	N 4	O 6	0
29	FM	1	Total 43	C 33	N 4	O 6	0
29	GM	1	Total 43	C 33	N 4	O 6	0
29	GM	1	Total 43	C 33	N 4	O 6	0
29	HM	1	Total 43	C 33	N 4	O 6	0
29	HM	1	Total 43	C 33	N 4	O 6	0
29	HM	1	Total 43	C 33	N 4	O 6	0
29	IM	1	Total 43	C 33	N 4	O 6	0
29	IM	1	Total 43	C 33	N 4	O 6	0
29	JM	1	Total 43	C 33	N 4	O 6	0
29	JM	1	Total 43	C 33	N 4	O 6	0
29	JM	1	Total 43	C 33	N 4	O 6	0
29	KM	1	Total 43	C 33	N 4	O 6	0
29	KM	1	Total 43	C 33	N 4	O 6	0
29	KM	1	Total 43	C 33	N 4	O 6	0
29	LM	1	Total 43	C 33	N 4	O 6	0
29	LM	1	Total 43	C 33	N 4	O 6	0
29	LM	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	MM	1	Total 43	C 33	N 4	O 6	0
29	MM	1	Total 43	C 33	N 4	O 6	0
29	NM	1	Total 43	C 33	N 4	O 6	0
29	NM	1	Total 43	C 33	N 4	O 6	0
29	OM	1	Total 43	C 33	N 4	O 6	0
29	OM	1	Total 43	C 33	N 4	O 6	0
29	PM	1	Total 43	C 33	N 4	O 6	0
29	PM	1	Total 43	C 33	N 4	O 6	0
29	QM	1	Total 43	C 33	N 4	O 6	0
29	QM	1	Total 43	C 33	N 4	O 6	0
29	QM	1	Total 43	C 33	N 4	O 6	0
29	RM	1	Total 43	C 33	N 4	O 6	0
29	RM	1	Total 43	C 33	N 4	O 6	0
29	RM	1	Total 43	C 33	N 4	O 6	0
29	SM	1	Total 43	C 33	N 4	O 6	0
29	SM	1	Total 43	C 33	N 4	O 6	0
29	TM	1	Total 43	C 33	N 4	O 6	0
29	TM	1	Total 43	C 33	N 4	O 6	0
29	TM	1	Total 43	C 33	N 4	O 6	0
29	UM	1	Total 43	C 33	N 4	O 6	0
29	VM	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	VM	1	Total 43	C 33	N 4	O 6	0
29	VM	1	Total 43	C 33	N 4	O 6	0
29	WM	1	Total 43	C 33	N 4	O 6	0
29	WM	1	Total 43	C 33	N 4	O 6	0
29	XM	1	Total 43	C 33	N 4	O 6	0
29	XM	1	Total 43	C 33	N 4	O 6	0
29	YM	1	Total 43	C 33	N 4	O 6	0
29	YM	1	Total 43	C 33	N 4	O 6	0
29	YM	1	Total 43	C 33	N 4	O 6	0
29	ZM	1	Total 43	C 33	N 4	O 6	0
29	ZM	1	Total 43	C 33	N 4	O 6	0
29	ZM	1	Total 43	C 33	N 4	O 6	0
29	aM	1	Total 43	C 33	N 4	O 6	0
29	aM	1	Total 43	C 33	N 4	O 6	0
29	aM	1	Total 43	C 33	N 4	O 6	0
29	cM	1	Total 43	C 33	N 4	O 6	0
29	cM	1	Total 43	C 33	N 4	O 6	0
29	cM	1	Total 43	C 33	N 4	O 6	0
29	dM	1	Total 43	C 33	N 4	O 6	0
29	dM	1	Total 43	C 33	N 4	O 6	0
29	eM	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	eM	1	Total 43	C 33	N 4	O 6	0
29	fM	1	Total 43	C 33	N 4	O 6	0
29	fM	1	Total 43	C 33	N 4	O 6	0
29	gM	1	Total 43	C 33	N 4	O 6	0
29	gM	1	Total 43	C 33	N 4	O 6	0
29	gM	1	Total 43	C 33	N 4	O 6	0
29	hM	1	Total 43	C 33	N 4	O 6	0
29	hM	1	Total 43	C 33	N 4	O 6	0
29	iM	1	Total 43	C 33	N 4	O 6	0
29	iM	1	Total 43	C 33	N 4	O 6	0
29	iM	1	Total 43	C 33	N 4	O 6	0
29	jM	1	Total 43	C 33	N 4	O 6	0
29	jM	1	Total 43	C 33	N 4	O 6	0
29	kM	1	Total 43	C 33	N 4	O 6	0
29	kM	1	Total 43	C 33	N 4	O 6	0
29	kM	1	Total 43	C 33	N 4	O 6	0
29	lM	1	Total 43	C 33	N 4	O 6	0
29	lM	1	Total 43	C 33	N 4	O 6	0
29	mM	1	Total 43	C 33	N 4	O 6	0
29	mM	1	Total 43	C 33	N 4	O 6	0
29	mM	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	AN	1	Total 43	C 33	N 4	O 6	0
29	AN	1	Total 43	C 33	N 4	O 6	0
29	BN	1	Total 43	C 33	N 4	O 6	0
29	BN	1	Total 43	C 33	N 4	O 6	0
29	BN	1	Total 43	C 33	N 4	O 6	0
29	CN	1	Total 43	C 33	N 4	O 6	0
29	CN	1	Total 43	C 33	N 4	O 6	0
29	DN	1	Total 43	C 33	N 4	O 6	0
29	DN	1	Total 43	C 33	N 4	O 6	0
29	DN	1	Total 43	C 33	N 4	O 6	0
29	EN	1	Total 43	C 33	N 4	O 6	0
29	EN	1	Total 43	C 33	N 4	O 6	0
29	FN	1	Total 43	C 33	N 4	O 6	0
29	FN	1	Total 43	C 33	N 4	O 6	0
29	FN	1	Total 43	C 33	N 4	O 6	0
29	GN	1	Total 43	C 33	N 4	O 6	0
29	GN	1	Total 43	C 33	N 4	O 6	0
29	HN	1	Total 43	C 33	N 4	O 6	0
29	HN	1	Total 43	C 33	N 4	O 6	0
29	HN	1	Total 43	C 33	N 4	O 6	0
29	IN	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	IN	1	Total 43	C 33	N 4	O 6	0
29	JN	1	Total 43	C 33	N 4	O 6	0
29	JN	1	Total 43	C 33	N 4	O 6	0
29	JN	1	Total 43	C 33	N 4	O 6	0
29	KN	1	Total 43	C 33	N 4	O 6	0
29	KN	1	Total 43	C 33	N 4	O 6	0
29	LN	1	Total 43	C 33	N 4	O 6	0
29	LN	1	Total 43	C 33	N 4	O 6	0
29	LN	1	Total 43	C 33	N 4	O 6	0
29	MN	1	Total 43	C 33	N 4	O 6	0
29	MN	1	Total 43	C 33	N 4	O 6	0
29	MN	1	Total 43	C 33	N 4	O 6	0
29	AO	1	Total 43	C 33	N 4	O 6	0
29	AO	1	Total 43	C 33	N 4	O 6	0
29	BO	1	Total 43	C 33	N 4	O 6	0
29	BO	1	Total 43	C 33	N 4	O 6	0
29	BO	1	Total 43	C 33	N 4	O 6	0
29	CO	1	Total 43	C 33	N 4	O 6	0
29	CO	1	Total 43	C 33	N 4	O 6	0
29	DO	1	Total 43	C 33	N 4	O 6	0
29	DO	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	DO	1	Total 43	C 33	N 4	O 6	0
29	EO	1	Total 43	C 33	N 4	O 6	0
29	EO	1	Total 43	C 33	N 4	O 6	0
29	FO	1	Total 43	C 33	N 4	O 6	0
29	FO	1	Total 43	C 33	N 4	O 6	0
29	FO	1	Total 43	C 33	N 4	O 6	0
29	GO	1	Total 43	C 33	N 4	O 6	0
29	GO	1	Total 43	C 33	N 4	O 6	0
29	HO	1	Total 43	C 33	N 4	O 6	0
29	HO	1	Total 43	C 33	N 4	O 6	0
29	HO	1	Total 43	C 33	N 4	O 6	0
29	IO	1	Total 43	C 33	N 4	O 6	0
29	IO	1	Total 43	C 33	N 4	O 6	0
29	IO	1	Total 43	C 33	N 4	O 6	0
29	JO	1	Total 43	C 33	N 4	O 6	0
29	JO	1	Total 43	C 33	N 4	O 6	0
29	JO	1	Total 43	C 33	N 4	O 6	0
29	KO	1	Total 43	C 33	N 4	O 6	0
29	KO	1	Total 43	C 33	N 4	O 6	0
29	LO	1	Total 43	C 33	N 4	O 6	0
29	LO	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	MO	1	Total 43	C 33	N 4	O 6	0
29	MO	1	Total 43	C 33	N 4	O 6	0
29	MO	1	Total 43	C 33	N 4	O 6	0
29	NO	1	Total 43	C 33	N 4	O 6	0
29	NO	1	Total 43	C 33	N 4	O 6	0
29	NO	1	Total 43	C 33	N 4	O 6	0
29	AQ	1	Total 43	C 33	N 4	O 6	0
29	AQ	1	Total 43	C 33	N 4	O 6	0
29	BQ	1	Total 43	C 33	N 4	O 6	0
29	BQ	1	Total 43	C 33	N 4	O 6	0
29	BQ	1	Total 43	C 33	N 4	O 6	0
29	CQ	1	Total 43	C 33	N 4	O 6	0
29	CQ	1	Total 43	C 33	N 4	O 6	0
29	DQ	1	Total 43	C 33	N 4	O 6	0
29	DQ	1	Total 43	C 33	N 4	O 6	0
29	DQ	1	Total 43	C 33	N 4	O 6	0
29	EQ	1	Total 43	C 33	N 4	O 6	0
29	EQ	1	Total 43	C 33	N 4	O 6	0
29	FQ	1	Total 43	C 33	N 4	O 6	0
29	FQ	1	Total 43	C 33	N 4	O 6	0
29	FQ	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	GQ	1	Total 43	C 33	N 4	O 6	0
29	GQ	1	Total 43	C 33	N 4	O 6	0
29	HQ	1	Total 43	C 33	N 4	O 6	0
29	HQ	1	Total 43	C 33	N 4	O 6	0
29	HQ	1	Total 43	C 33	N 4	O 6	0
29	IQ	1	Total 43	C 33	N 4	O 6	0
29	IQ	1	Total 43	C 33	N 4	O 6	0
29	JQ	1	Total 43	C 33	N 4	O 6	0
29	JQ	1	Total 43	C 33	N 4	O 6	0
29	JQ	1	Total 43	C 33	N 4	O 6	0
29	KQ	1	Total 43	C 33	N 4	O 6	0
29	KQ	1	Total 43	C 33	N 4	O 6	0
29	LQ	1	Total 43	C 33	N 4	O 6	0
29	LQ	1	Total 43	C 33	N 4	O 6	0
29	MQ	1	Total 43	C 33	N 4	O 6	0
29	MQ	1	Total 43	C 33	N 4	O 6	0
29	MQ	1	Total 43	C 33	N 4	O 6	0
29	MQ	1	Total 43	C 33	N 4	O 6	0
29	MQ	1	Total 43	C 33	N 4	O 6	0
29	eR	1	Total 43	C 33	N 4	O 6	0
29	MR	1	Total 43	C 33	N 4	O 6	0

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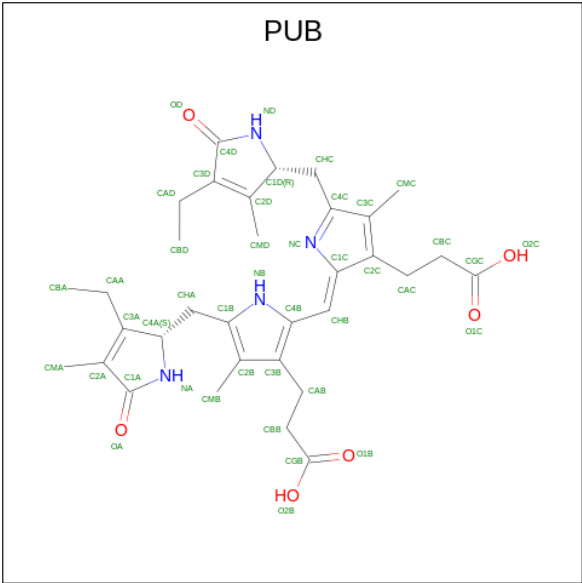
Mol	Chain	Residues	Atoms				AltConf
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29	NR	1	Total 43	C 33	N 4	O 6	0
29	NR	1	Total 43	C 33	N 4	O 6	0
29	OR	1	Total 43	C 33	N 4	O 6	0
29	OR	1	Total 43	C 33	N 4	O 6	0
29	PR	1	Total 43	C 33	N 4	O 6	0
29	PR	1	Total 43	C 33	N 4	O 6	0
29	QR	1	Total 43	C 33	N 4	O 6	0
29	QR	1	Total 43	C 33	N 4	O 6	0
29	RR	1	Total 43	C 33	N 4	O 6	0
29	RR	1	Total 43	C 33	N 4	O 6	0
29	RR	1	Total 43	C 33	N 4	O 6	0
29	SR	1	Total 43	C 33	N 4	O 6	0
29	SR	1	Total 43	C 33	N 4	O 6	0
29	TR	1	Total 43	C 33	N 4	O 6	0
29	TR	1	Total 43	C 33	N 4	O 6	0
29	TR	1	Total 43	C 33	N 4	O 6	0
29	UR	1	Total 43	C 33	N 4	O 6	0
29	UR	1	Total 43	C 33	N 4	O 6	0
29	VR	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
29	VR	1	Total	C	N	O	0
			43	33	4	6	
29	VR	1	Total	C	N	O	0
			43	33	4	6	
29	WR	1	Total	C	N	O	0
			43	33	4	6	
29	WR	1	Total	C	N	O	0
			43	33	4	6	
29	XR	1	Total	C	N	O	0
			43	33	4	6	
29	XR	1	Total	C	N	O	0
			43	33	4	6	
29	XR	1	Total	C	N	O	0
			43	33	4	6	

- Molecule 30 is PHYCOUROBILIN (CCD ID: PUB) (formula: C₃₃H₄₂N₄O₆) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
30	A1	1	Total	C	N	O	0
			43	33	4	6	
30	A1	1	Total	C	N	O	0
			43	33	4	6	
30	A7	1	Total	C	N	O	0
			43	33	4	6	
30	A7	1	Total	C	N	O	0
			43	33	4	6	

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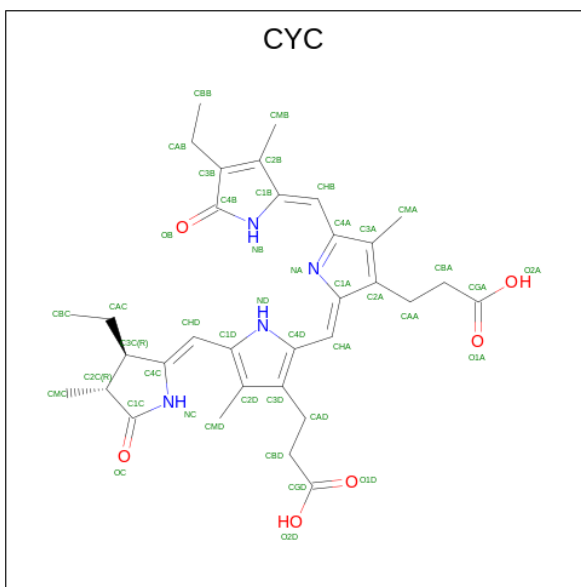
Mol	Chain	Residues	Atoms				AltConf
30	A9	1	Total 43	C 33	N 4	O 6	0
30	A9	1	Total 43	C 33	N 4	O 6	0
30	MA	1	Total 43	C 33	N 4	O 6	0
30	MA	1	Total 43	C 33	N 4	O 6	0
30	AB	1	Total 43	C 33	N 4	O 6	0
30	AB	1	Total 43	C 33	N 4	O 6	0
30	BB	1	Total 43	C 33	N 4	O 6	0
30	QB	1	Total 43	C 33	N 4	O 6	0
30	AF	1	Total 43	C 33	N 4	O 6	0
30	AF	1	Total 43	C 33	N 4	O 6	0
30	MG	1	Total 43	C 33	N 4	O 6	0
30	MG	1	Total 43	C 33	N 4	O 6	0
30	AI	1	Total 43	C 33	N 4	O 6	0
30	AI	1	Total 43	C 33	N 4	O 6	0
30	wJ	1	Total 43	C 33	N 4	O 6	0
30	wJ	1	Total 43	C 33	N 4	O 6	0
30	xJ	1	Total 43	C 33	N 4	O 6	0
30	xJ	1	Total 43	C 33	N 4	O 6	0
30	yJ	1	Total 43	C 33	N 4	O 6	0
30	yJ	1	Total 43	C 33	N 4	O 6	0
30	AK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
30	AK	1	Total	C	N	O	0
			43	33	4	6	
30	wL	1	Total	C	N	O	0
			43	33	4	6	
30	wL	1	Total	C	N	O	0
			43	33	4	6	
30	xL	1	Total	C	N	O	0
			43	33	4	6	
30	xL	1	Total	C	N	O	0
			43	33	4	6	
30	yL	1	Total	C	N	O	0
			43	33	4	6	
30	yL	1	Total	C	N	O	0
			43	33	4	6	
30	AM	1	Total	C	N	O	0
			43	33	4	6	
30	AM	1	Total	C	N	O	0
			43	33	4	6	
30	BM	1	Total	C	N	O	0
			43	33	4	6	
30	QM	1	Total	C	N	O	0
			43	33	4	6	
30	MN	1	Total	C	N	O	0
			43	33	4	6	
30	MN	1	Total	C	N	O	0
			43	33	4	6	
30	MQ	1	Total	C	N	O	0
			43	33	4	6	
30	MQ	1	Total	C	N	O	0
			43	33	4	6	

- Molecule 31 is PHYCOCYANOBILIN (CCD ID: CYC) (formula: $C_{33}H_{40}N_4O_6$).



Mol	Chain	Residues	Atoms				AltConf
31	C1	1	Total 43	C 33	N 4	O 6	0
31	D1	1	Total 43	C 33	N 4	O 6	0
31	D1	1	Total 43	C 33	N 4	O 6	0
31	E1	1	Total 43	C 33	N 4	O 6	0
31	F1	1	Total 43	C 33	N 4	O 6	0
31	H1	1	Total 43	C 33	N 4	O 6	0
31	I1	1	Total 43	C 33	N 4	O 6	0
31	J1	1	Total 43	C 33	N 4	O 6	0
31	K1	1	Total 43	C 33	N 4	O 6	0
31	L1	1	Total 43	C 33	N 4	O 6	0
31	M1	1	Total 43	C 33	N 4	O 6	0
31	N1	1	Total 43	C 33	N 4	O 6	0
31	C7	1	Total 43	C 33	N 4	O 6	0
31	D7	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
31	E7	1	Total 43	C 33	N 4	O 6	0
31	F7	1	Total 43	C 33	N 4	O 6	0
31	G7	1	Total 43	C 33	N 4	O 6	0
31	H7	1	Total 43	C 33	N 4	O 6	0
31	I7	1	Total 43	C 33	N 4	O 6	0
31	J7	1	Total 43	C 33	N 4	O 6	0
31	K7	1	Total 43	C 33	N 4	O 6	0
31	L7	1	Total 43	C 33	N 4	O 6	0
31	M7	1	Total 43	C 33	N 4	O 6	0
31	N7	1	Total 43	C 33	N 4	O 6	0
31	C9	1	Total 43	C 33	N 4	O 6	0
31	D9	1	Total 43	C 33	N 4	O 6	0
31	E9	1	Total 43	C 33	N 4	O 6	0
31	F9	1	Total 43	C 33	N 4	O 6	0
31	G9	1	Total 43	C 33	N 4	O 6	0
31	H9	1	Total 43	C 33	N 4	O 6	0
31	I9	1	Total 43	C 33	N 4	O 6	0
31	J9	1	Total 43	C 33	N 4	O 6	0
31	K9	1	Total 43	C 33	N 4	O 6	0
31	L9	1	Total 43	C 33	N 4	O 6	0
31	M9	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
31	N9	1	Total 43	C 33	N 4	O 6	0
31	CF	1	Total 43	C 33	N 4	O 6	0
31	DF	1	Total 43	C 33	N 4	O 6	0
31	EF	1	Total 43	C 33	N 4	O 6	0
31	FF	1	Total 43	C 33	N 4	O 6	0
31	GF	1	Total 43	C 33	N 4	O 6	0
31	HF	1	Total 43	C 33	N 4	O 6	0
31	IF	1	Total 43	C 33	N 4	O 6	0
31	JF	1	Total 43	C 33	N 4	O 6	0
31	KF	1	Total 43	C 33	N 4	O 6	0
31	LF	1	Total 43	C 33	N 4	O 6	0
31	MF	1	Total 43	C 33	N 4	O 6	0
31	NF	1	Total 43	C 33	N 4	O 6	0
31	CI	1	Total 43	C 33	N 4	O 6	0
31	DI	1	Total 43	C 33	N 4	O 6	0
31	EI	1	Total 43	C 33	N 4	O 6	0
31	FI	1	Total 43	C 33	N 4	O 6	0
31	GI	1	Total 43	C 33	N 4	O 6	0
31	HI	1	Total 43	C 33	N 4	O 6	0
31	II	1	Total 43	C 33	N 4	O 6	0
31	JI	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
31	KI	1	Total 43	C 33	N 4	O 6	0
31	LI	1	Total 43	C 33	N 4	O 6	0
31	MI	1	Total 43	C 33	N 4	O 6	0
31	NI	1	Total 43	C 33	N 4	O 6	0
31	CK	1	Total 43	C 33	N 4	O 6	0
31	DK	1	Total 43	C 33	N 4	O 6	0
31	EK	1	Total 43	C 33	N 4	O 6	0
31	FK	1	Total 43	C 33	N 4	O 6	0
31	GK	1	Total 43	C 33	N 4	O 6	0
31	HK	1	Total 43	C 33	N 4	O 6	0
31	IK	1	Total 43	C 33	N 4	O 6	0
31	JK	1	Total 43	C 33	N 4	O 6	0
31	KK	1	Total 43	C 33	N 4	O 6	0
31	LK	1	Total 43	C 33	N 4	O 6	0
31	MK	1	Total 43	C 33	N 4	O 6	0
31	NK	1	Total 43	C 33	N 4	O 6	0
31	AP	1	Total 43	C 33	N 4	O 6	0
31	DP	1	Total 43	C 33	N 4	O 6	0
31	CP	1	Total 43	C 33	N 4	O 6	0
31	FP	1	Total 43	C 33	N 4	O 6	0
31	EP	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
31	BP	1	Total 43	C 33	N 4	O 6	0
31	GP	1	Total 43	C 33	N 4	O 6	0
31	HP	1	Total 43	C 33	N 4	O 6	0
31	IP	1	Total 43	C 33	N 4	O 6	0
31	JP	1	Total 43	C 33	N 4	O 6	0
31	KP	1	Total 43	C 33	N 4	O 6	0
31	MP	1	Total 43	C 33	N 4	O 6	0
31	NP	1	Total 43	C 33	N 4	O 6	0
31	OP	1	Total 43	C 33	N 4	O 6	0
31	PP	1	Total 43	C 33	N 4	O 6	0
31	QP	1	Total 43	C 33	N 4	O 6	0
31	RP	1	Total 43	C 33	N 4	O 6	0
31	SP	1	Total 43	C 33	N 4	O 6	0
31	TP	1	Total 43	C 33	N 4	O 6	0
31	UP	1	Total 43	C 33	N 4	O 6	0
31	VP	1	Total 43	C 33	N 4	O 6	0
31	WP	1	Total 43	C 33	N 4	O 6	0
31	XP	1	Total 43	C 33	N 4	O 6	0
31	YP	1	Total 43	C 33	N 4	O 6	0
31	cP	1	Total 43	C 33	N 4	O 6	0
31	eP	1	Total 43	C 33	N 4	O 6	0

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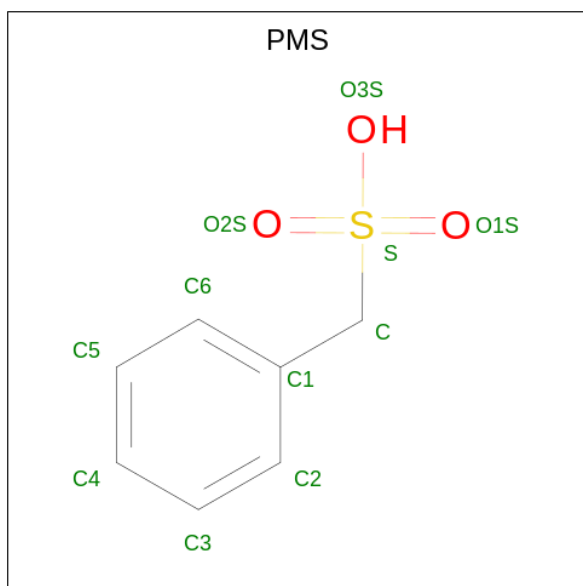
Mol	Chain	Residues	Atoms				AltConf
31	fP	1	Total 43	C 33	N 4	O 6	0
31	gP	1	Total 43	C 33	N 4	O 6	0
31	hP	1	Total 43	C 33	N 4	O 6	0
31	iP	1	Total 43	C 33	N 4	O 6	0
31	jP	1	Total 43	C 33	N 4	O 6	0
31	kP	1	Total 43	C 33	N 4	O 6	0
31	lP	1	Total 43	C 33	N 4	O 6	0
31	mP	1	Total 43	C 33	N 4	O 6	0
31	nP	1	Total 43	C 33	N 4	O 6	0
31	oP	1	Total 43	C 33	N 4	O 6	0
31	pP	1	Total 43	C 33	N 4	O 6	0
31	qP	1	Total 43	C 33	N 4	O 6	0
31	rP	1	Total 43	C 33	N 4	O 6	0
31	sP	1	Total 43	C 33	N 4	O 6	0
31	tP	1	Total 43	C 33	N 4	O 6	0
31	uP	1	Total 43	C 33	N 4	O 6	0
31	vP	1	Total 43	C 33	N 4	O 6	0
31	wP	1	Total 43	C 33	N 4	O 6	0
31	xP	1	Total 43	C 33	N 4	O 6	0
31	yP	1	Total 43	C 33	N 4	O 6	0
31	1P	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
31	1P	1	Total	C	N	O	0
			43	33	4	6	

- Molecule 32 is phenylmethanesulfonic acid (CCD ID: PMS) (formula: $C_7H_8O_3S$).

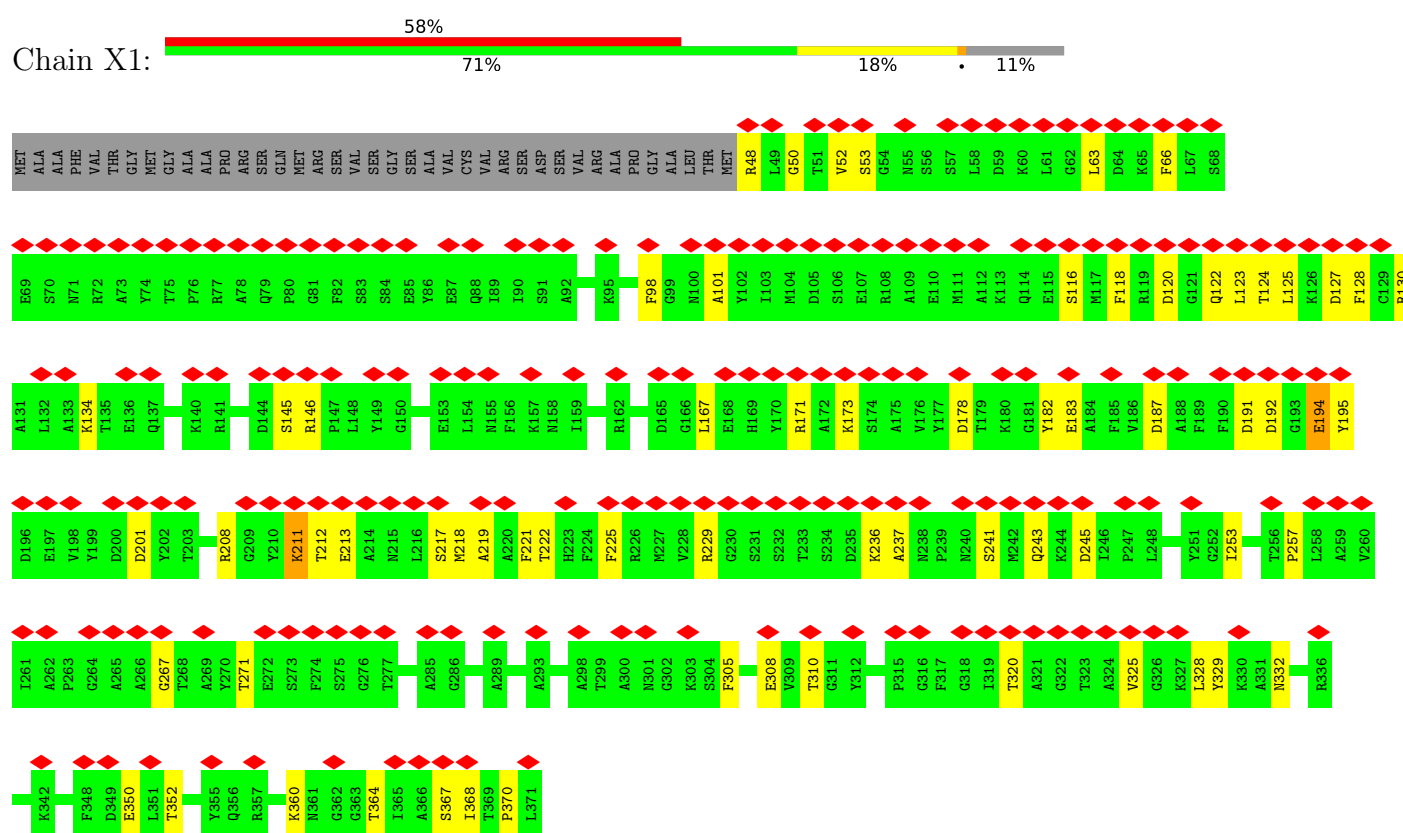


Mol	Chain	Residues	Atoms				AltConf
32	k6	1	Total	C	O	S	0
			11	7	3	1	
32	k6	1	Total	C	O	S	0
			11	7	3	1	
32	kH	1	Total	C	O	S	0
			11	7	3	1	
32	kH	1	Total	C	O	S	0
			11	7	3	1	

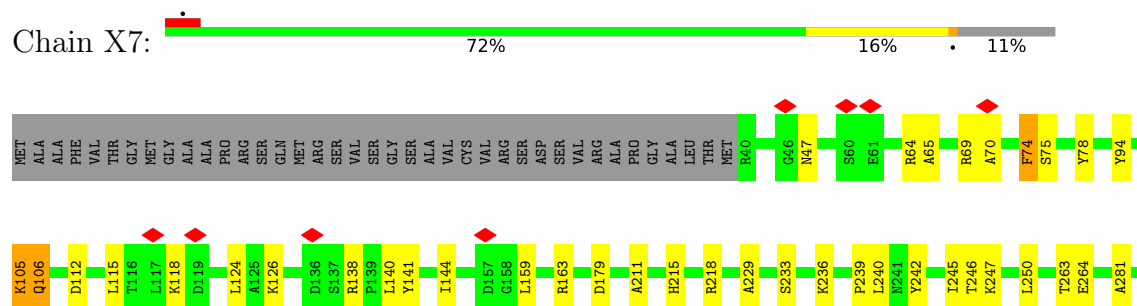
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

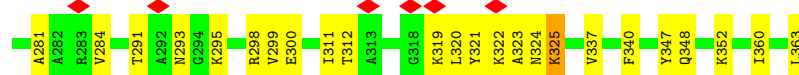
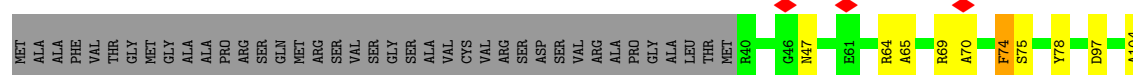


- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

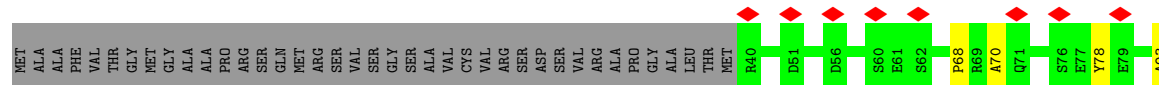
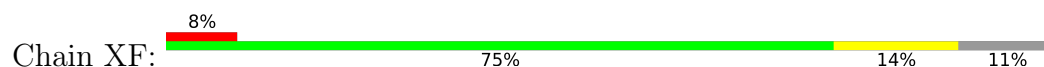




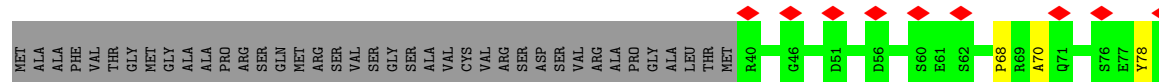
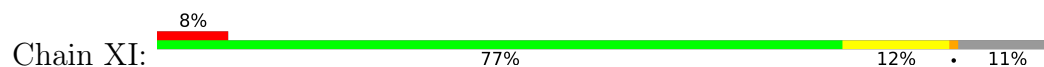
- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod



- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

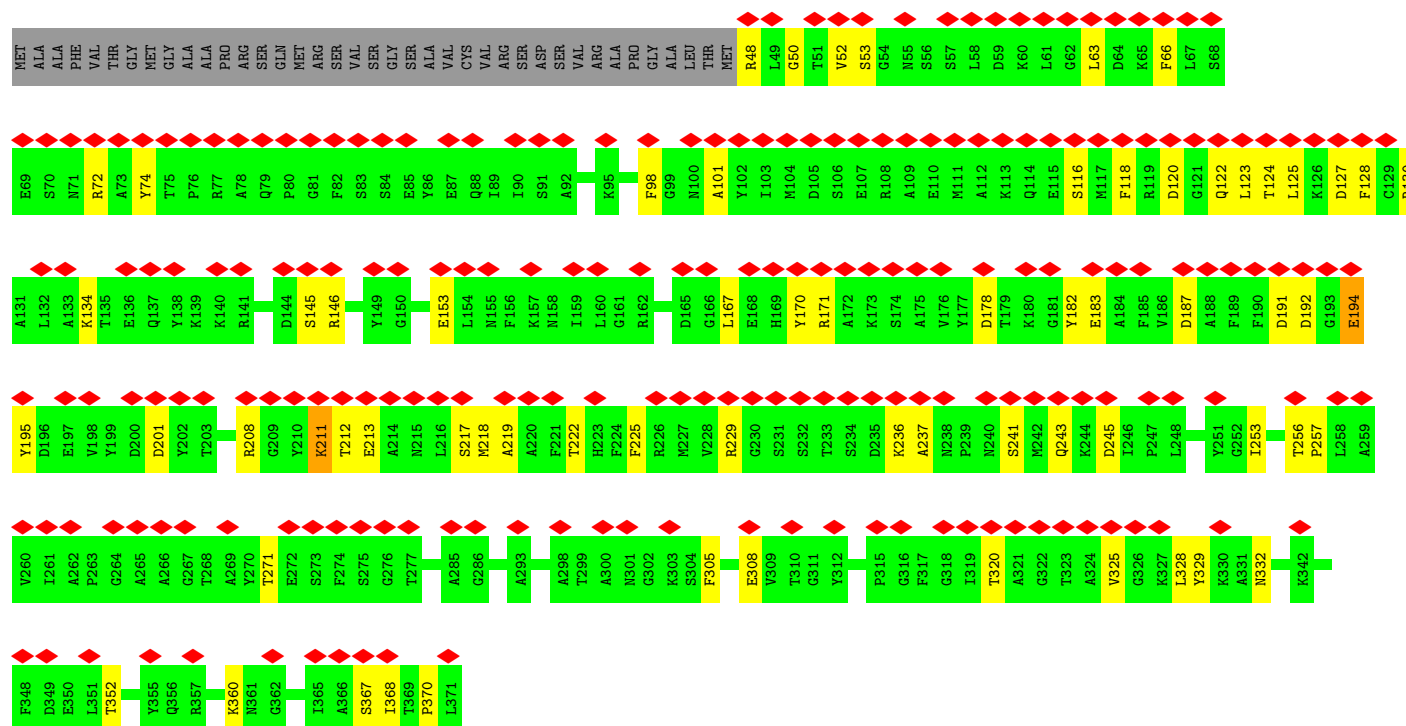


- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod



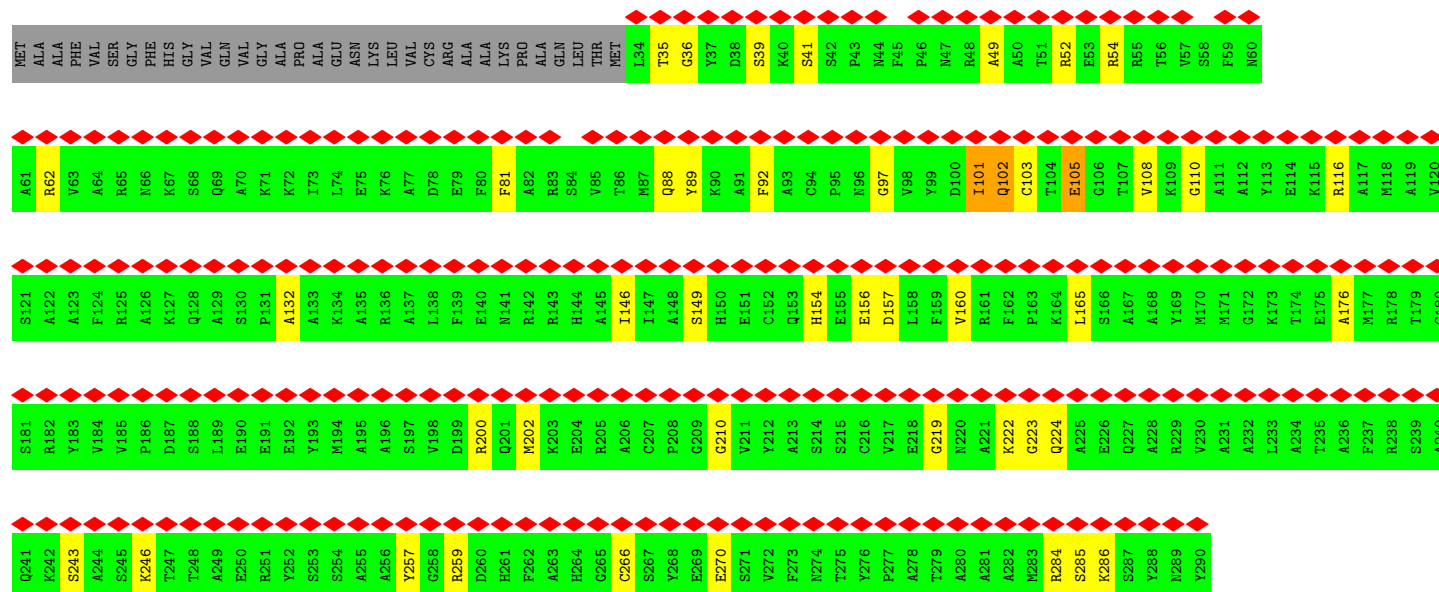
- Molecule 1: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

Chain XK: 



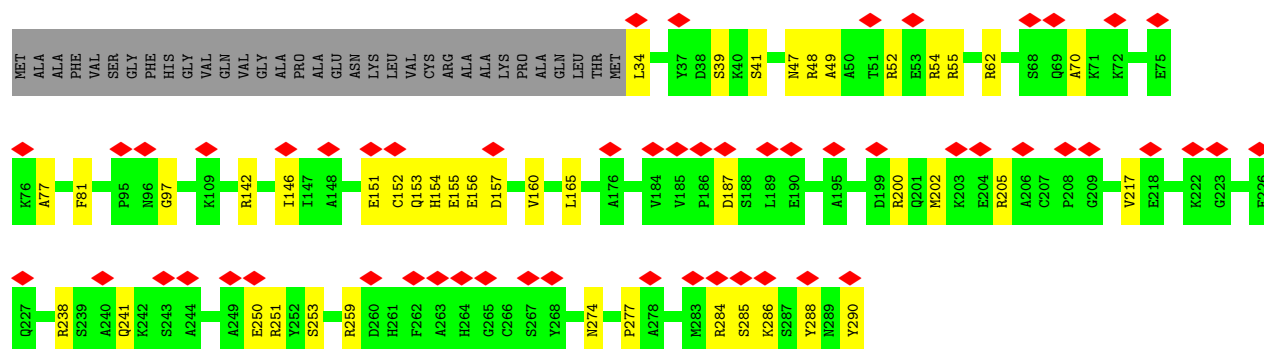
• Molecule 2: R-phycoerythrin gamma chain, chloroplastic

Chain A1: 

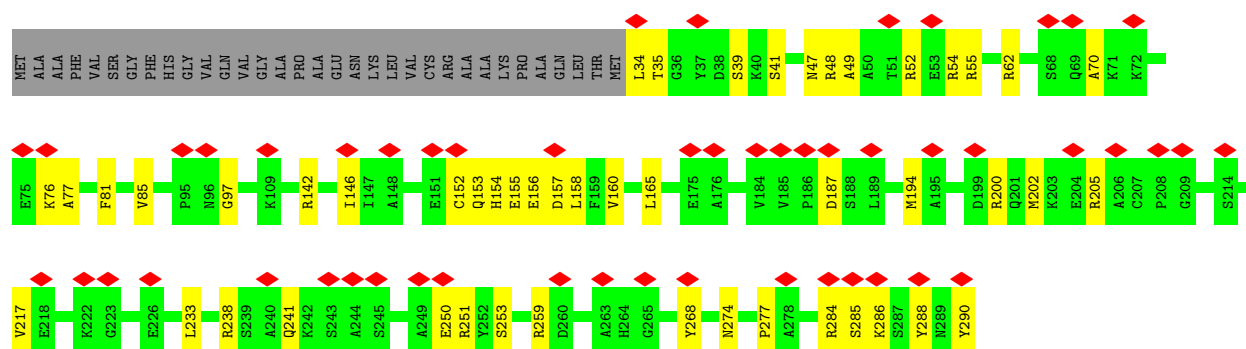


• Molecule 2: R-phycoerythrin gamma chain, chloroplastic

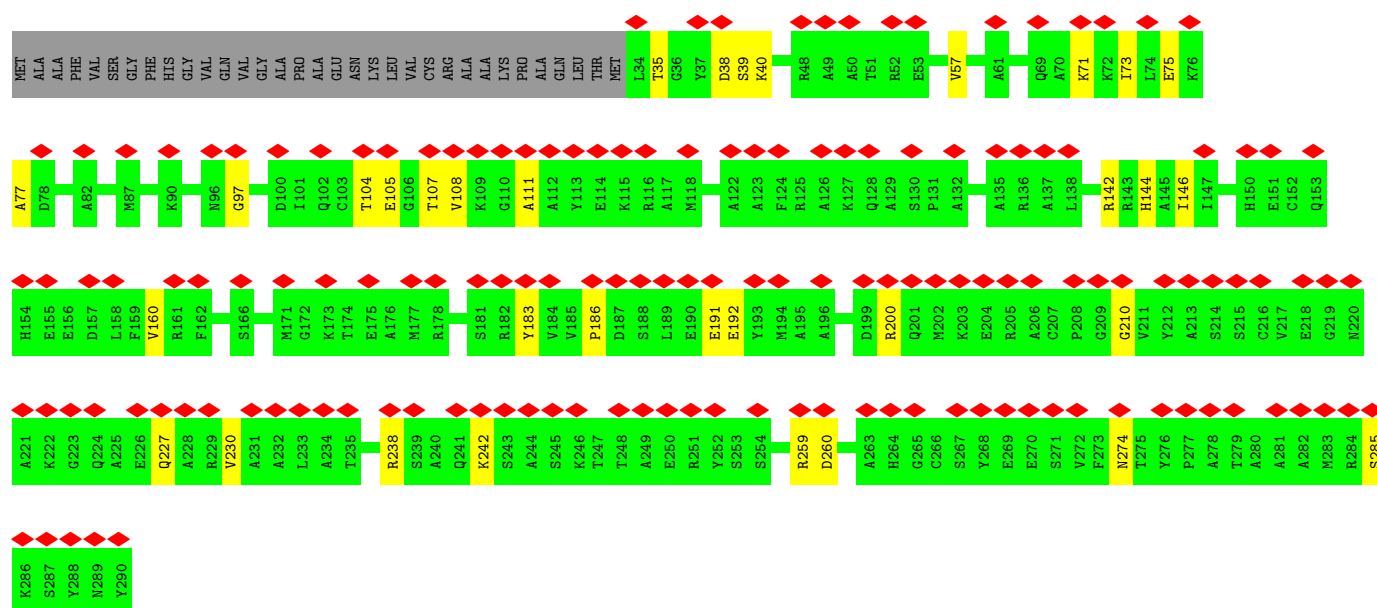
Chain A7: 



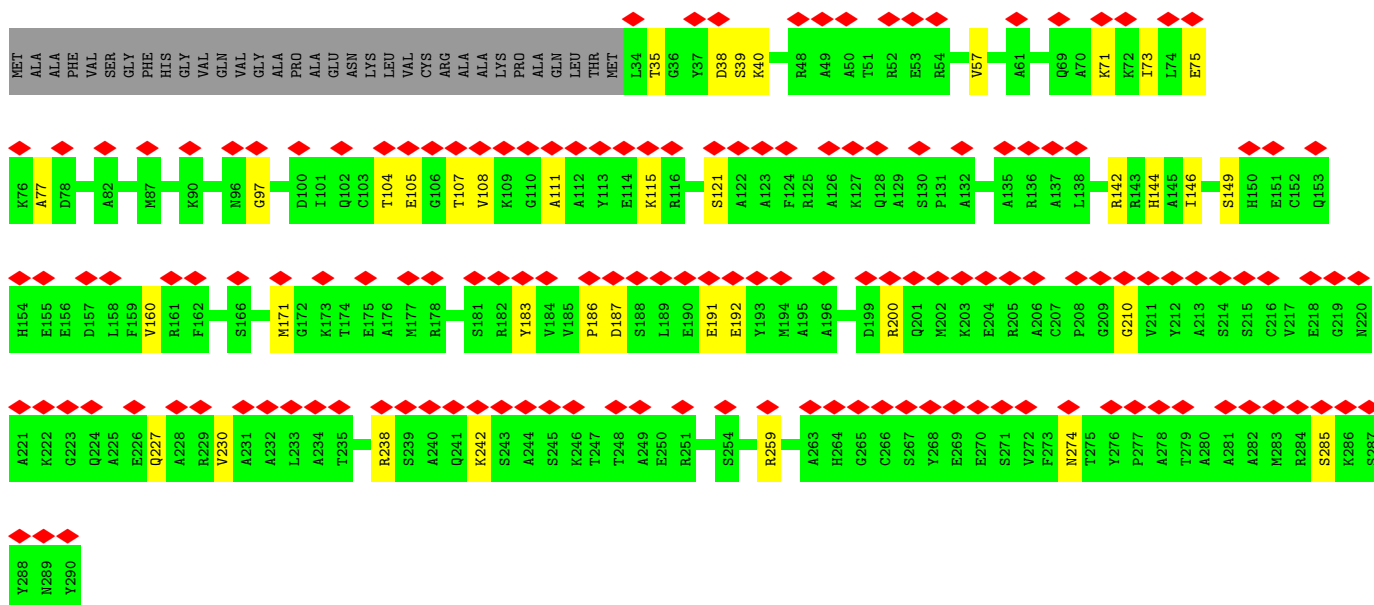
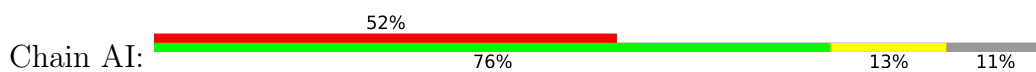
• Molecule 2: R-phycoerythrin gamma chain, chloroplastic



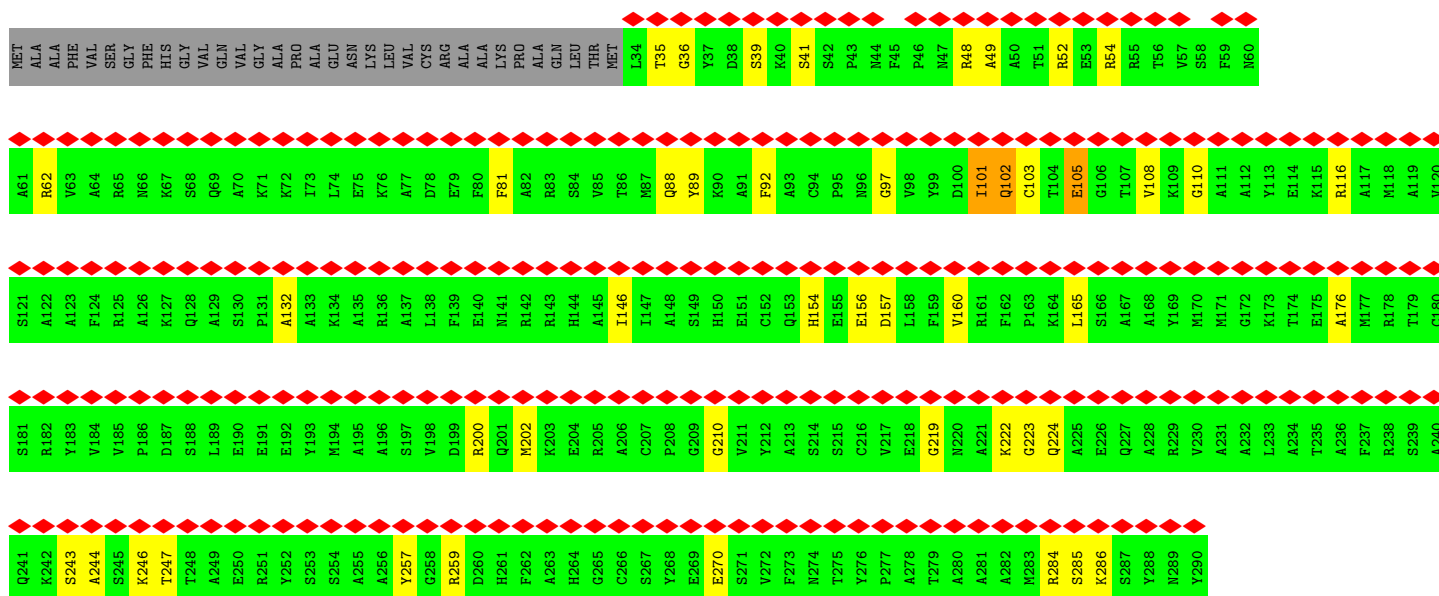
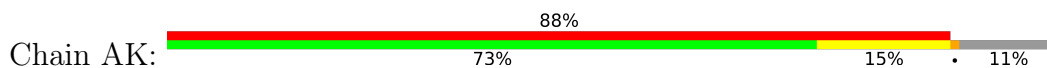
• Molecule 2: R-phycoerythrin gamma chain, chloroplastic



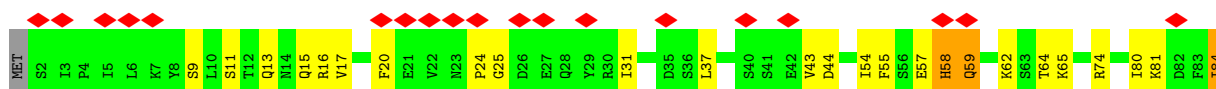
• Molecule 2: R-phycoerythrin gamma chain, chloroplastic

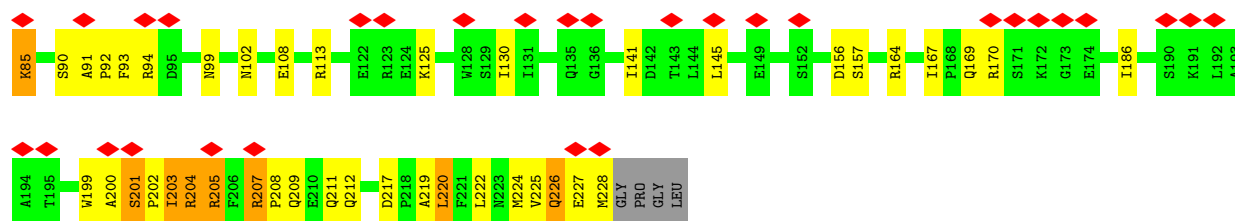


- Molecule 2: R-phycoerythrin gamma chain, chloroplastic



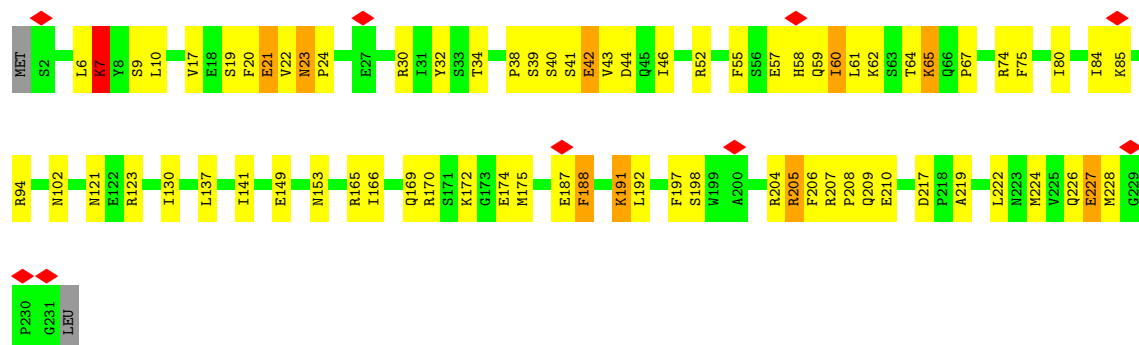
- Molecule 3: Phycobilisome rod-core linker polypeptide





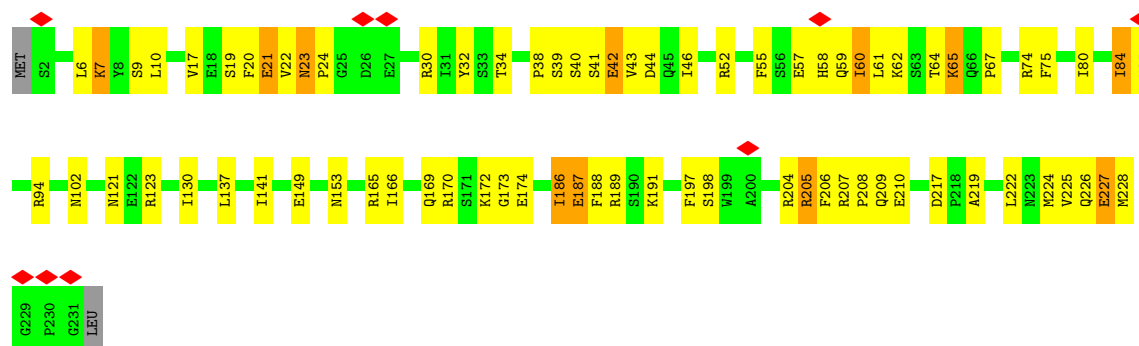
• Molecule 3: Phycobilisome rod-core linker polypeptide

Chain B7: 67% 28% . .



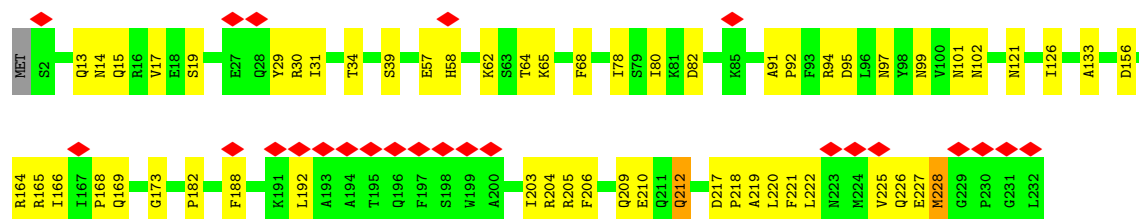
• Molecule 3: Phycobilisome rod-core linker polypeptide

Chain B9: 66% 28% 5% . .

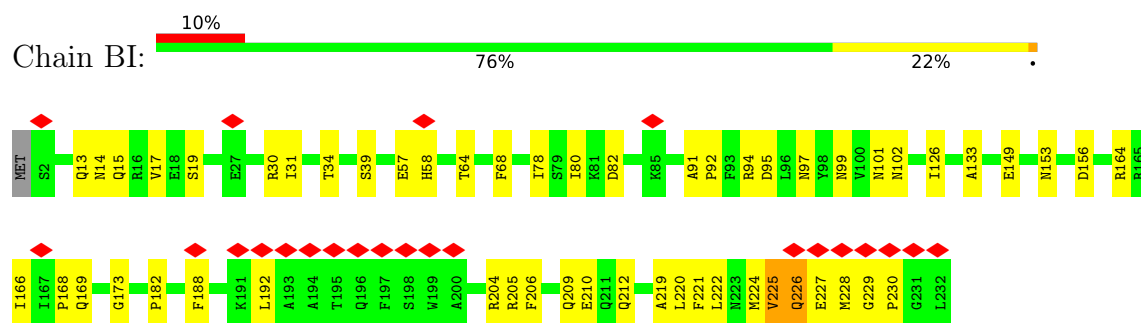


• Molecule 3: Phycobilisome rod-core linker polypeptide

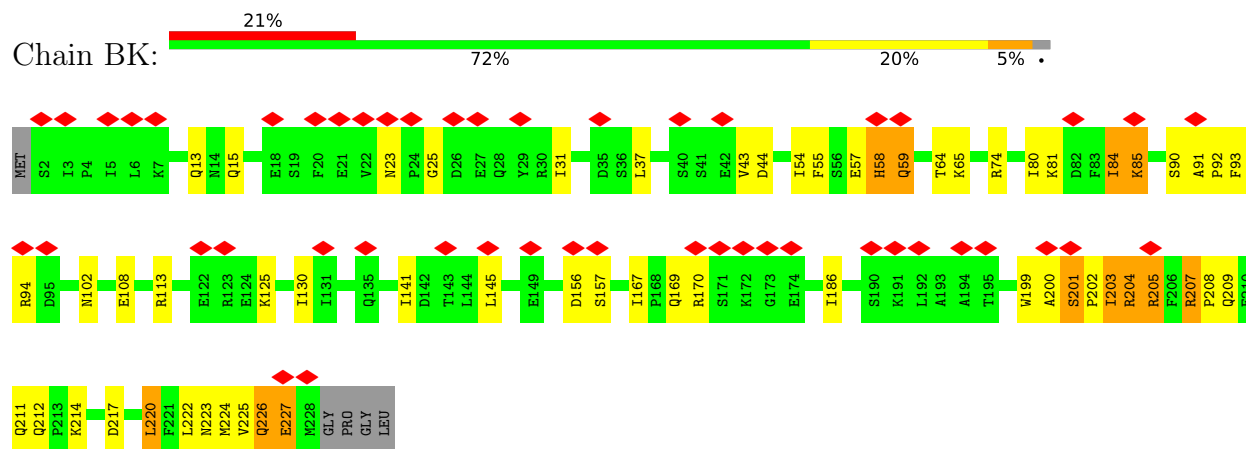
Chain BF: 10% 75% 24% . .



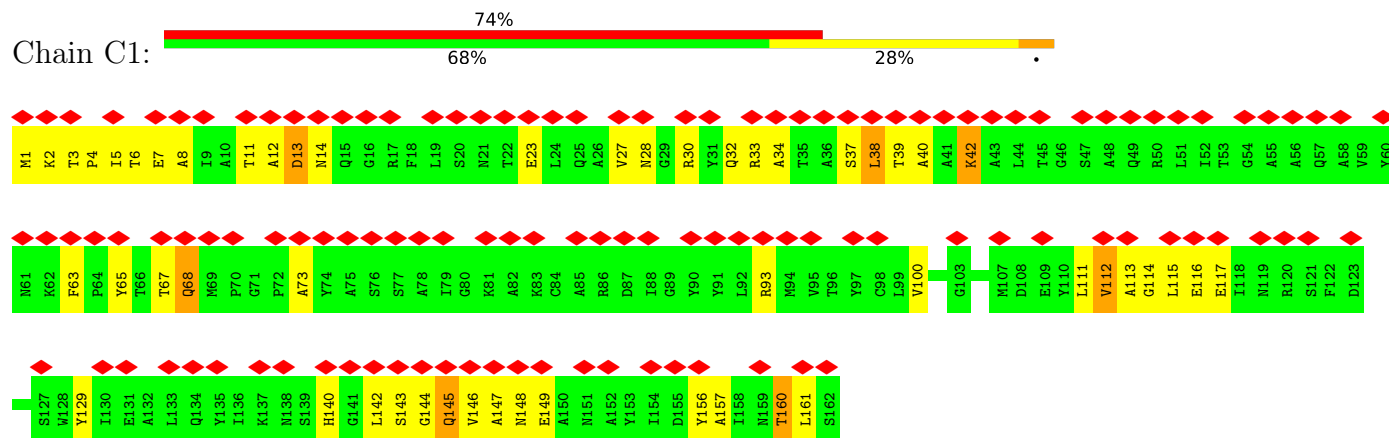
• Molecule 3: Phycobilisome rod-core linker polypeptide



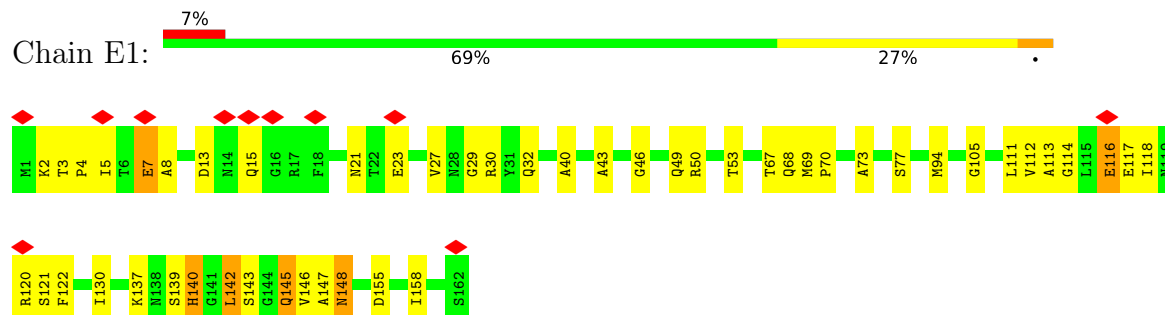
- Molecule 3: Phycobilisome rod-core linker polypeptide



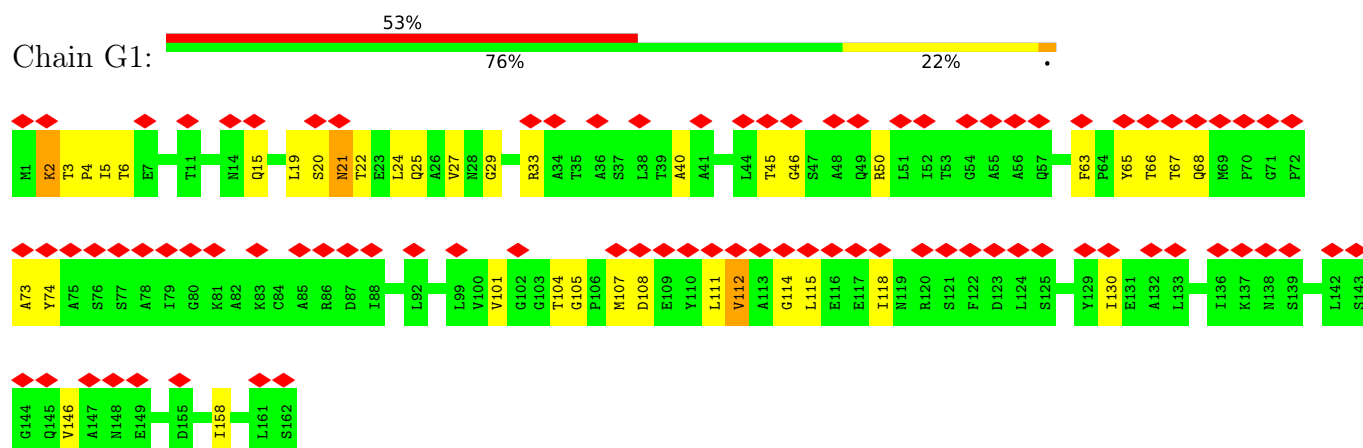
- Molecule 4: C-phycocyanin alpha subunit



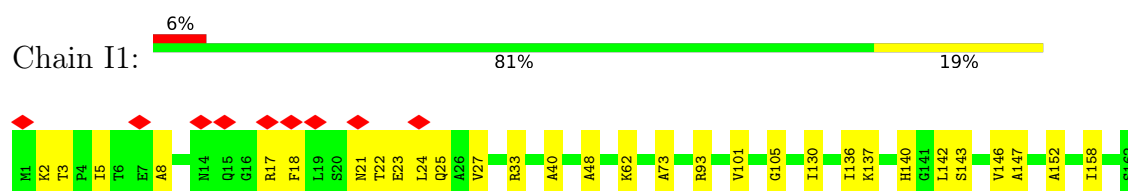
- Molecule 4: C-phycoyanin alpha subunit



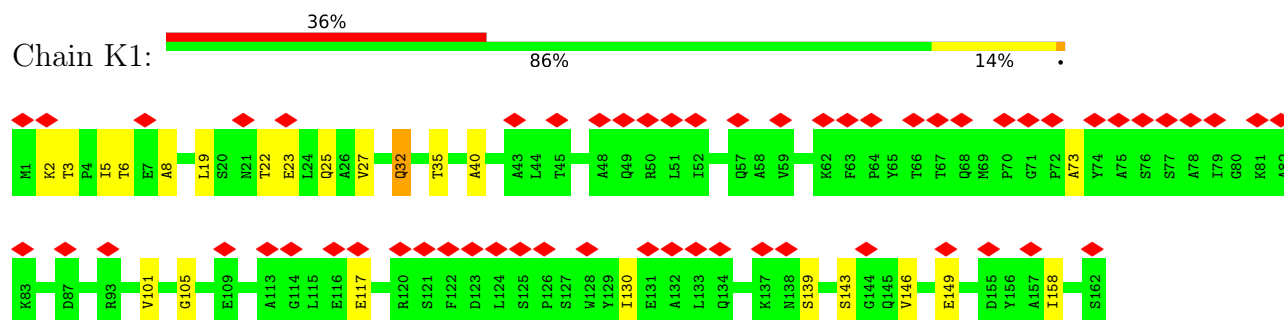
- Molecule 4: C-phycoerythrin alpha subunit



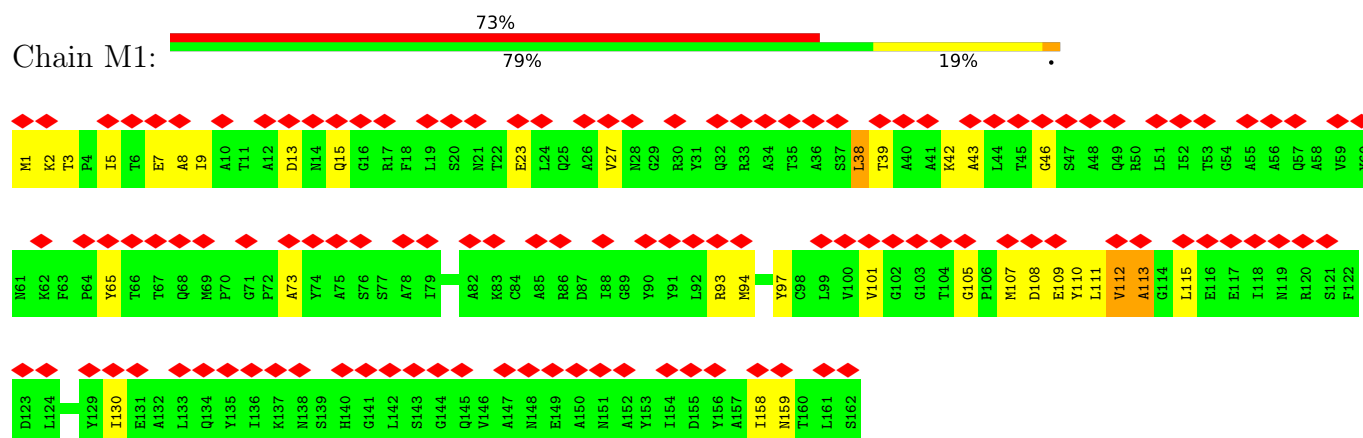
- Molecule 4: C-phycoerythrin alpha subunit



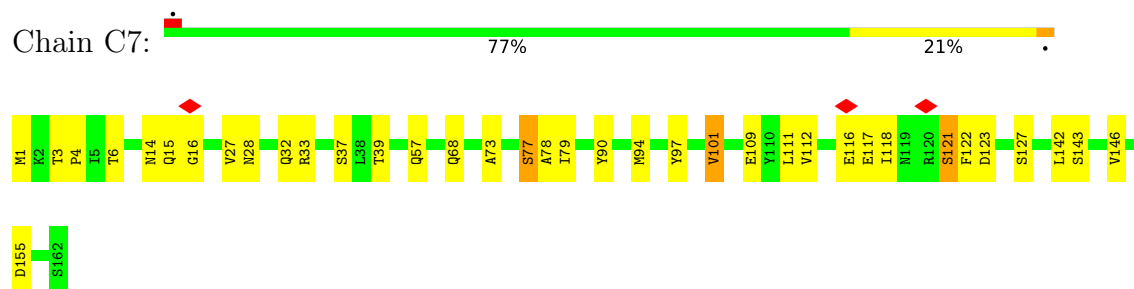
- Molecule 4: C-phycoerythrin alpha subunit



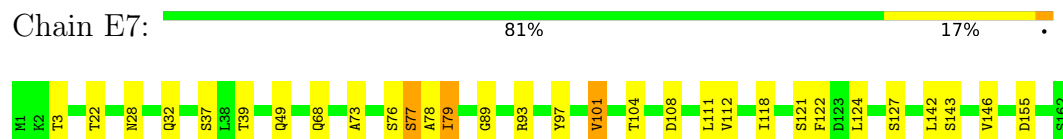
- Molecule 4: C-phycoerythrin alpha subunit



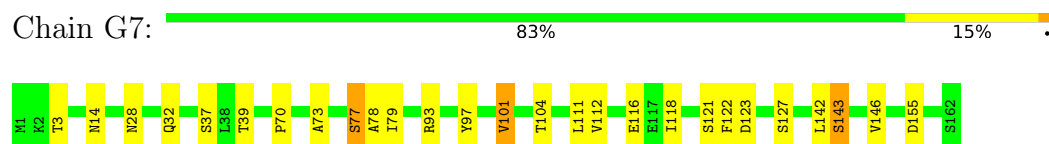
- Molecule 4: C-phycoerythrin alpha subunit



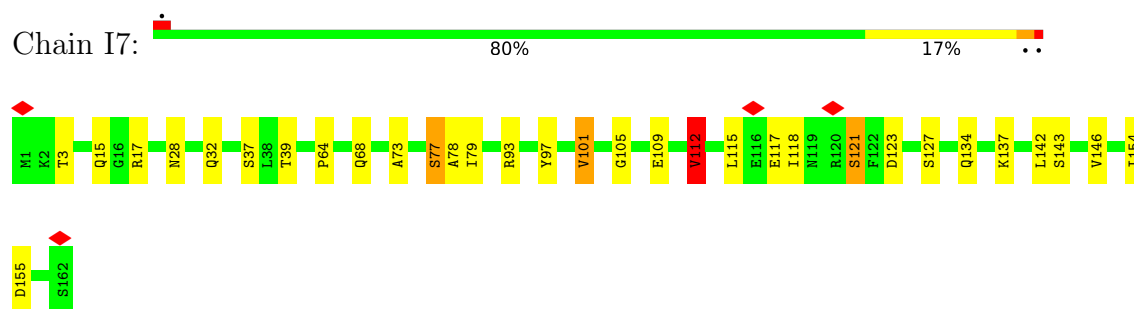
- Molecule 4: C-phycoerythrin alpha subunit



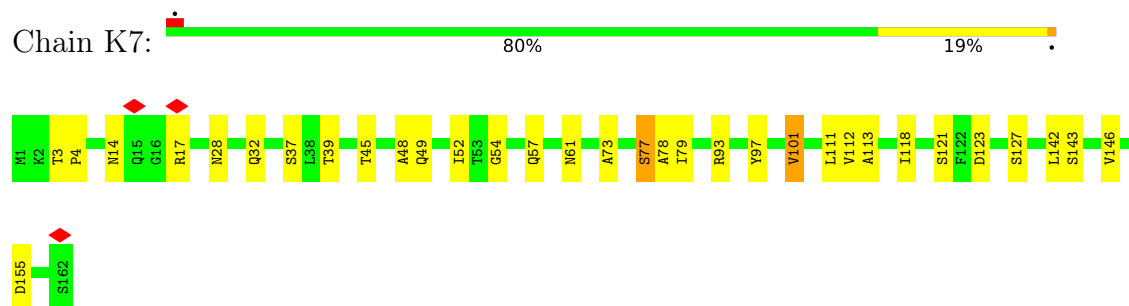
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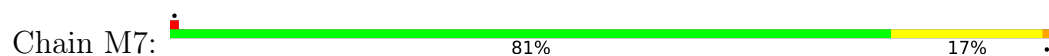
- Molecule 4: C-phycoerythrin alpha subunit



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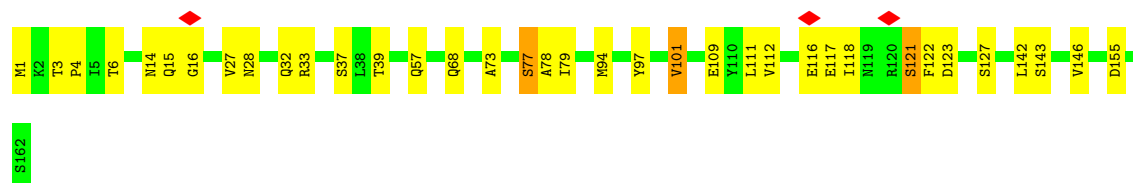
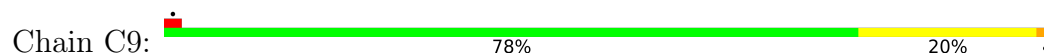


- Molecule 4: C-phycoerythrin alpha subunit

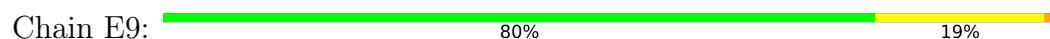




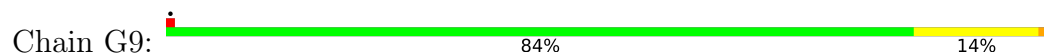
- Molecule 4: C-phycoerythrin alpha subunit



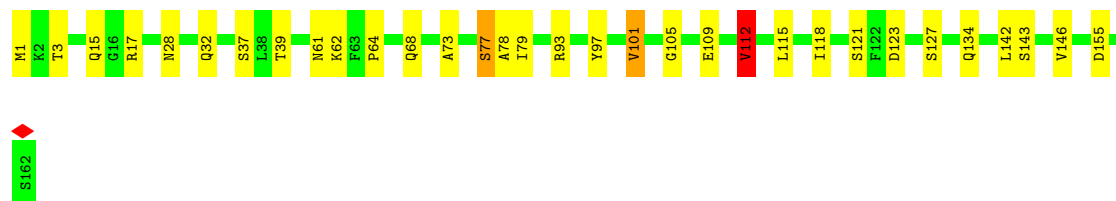
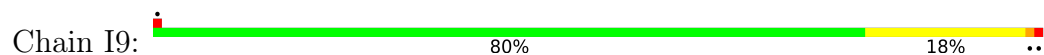
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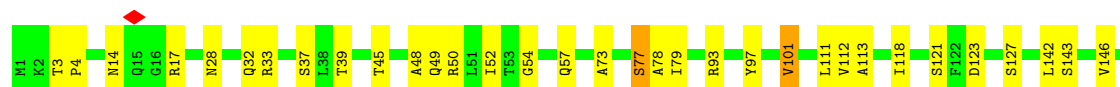
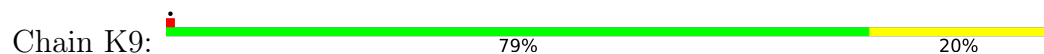
- Molecule 4: C-phycoerythrin alpha subunit



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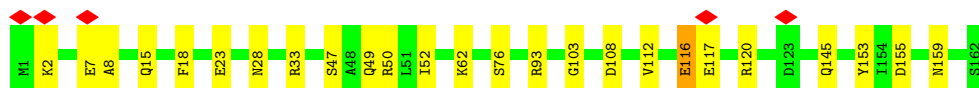
- Molecule 4: C-phycocyanin alpha subunit

Chain M9: 79% 19%



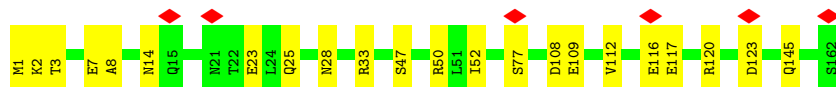
- Molecule 4: C-phycocyanin alpha subunit

Chain CF: 85% 15%



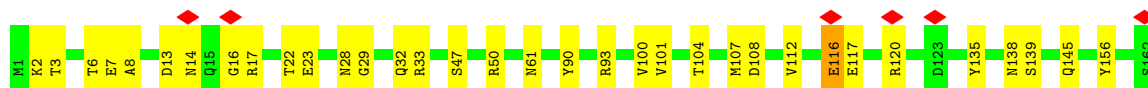
- Molecule 4: C-phycocyanin alpha subunit

Chain EF: 86% 14%



- Molecule 4: C-phycocyanin alpha subunit

Chain GF: 79% 20%



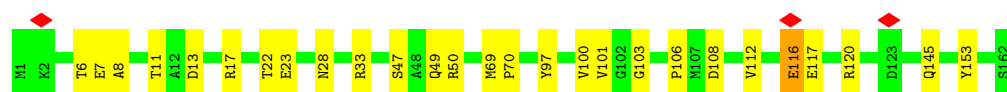
- Molecule 4: C-phycocyanin alpha subunit

Chain IF: 87% 12%

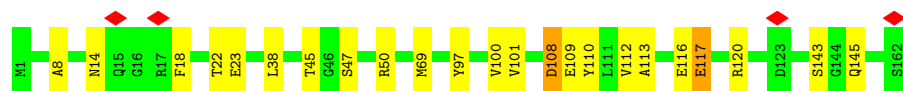


- Molecule 4: C-phycocyanin alpha subunit

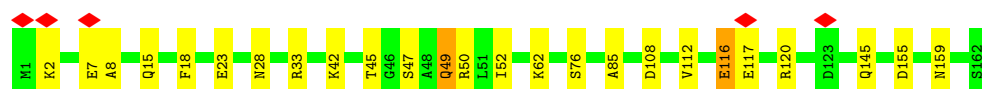
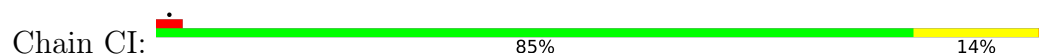
Chain KF: 83% 16%



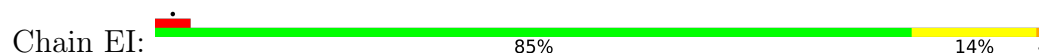
- Molecule 4: C-phycoerythrin alpha subunit



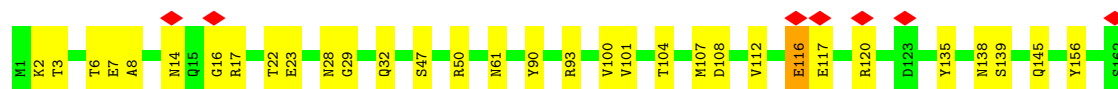
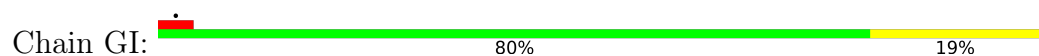
- Molecule 4: C-phycoerythrin alpha subunit



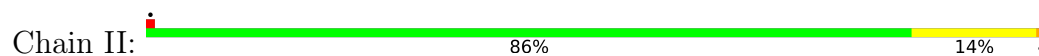
- Molecule 4: C-phycoerythrin alpha subunit



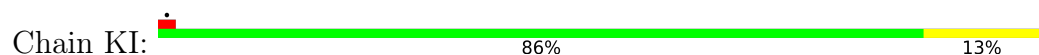
- Molecule 4: C-phycoerythrin alpha subunit



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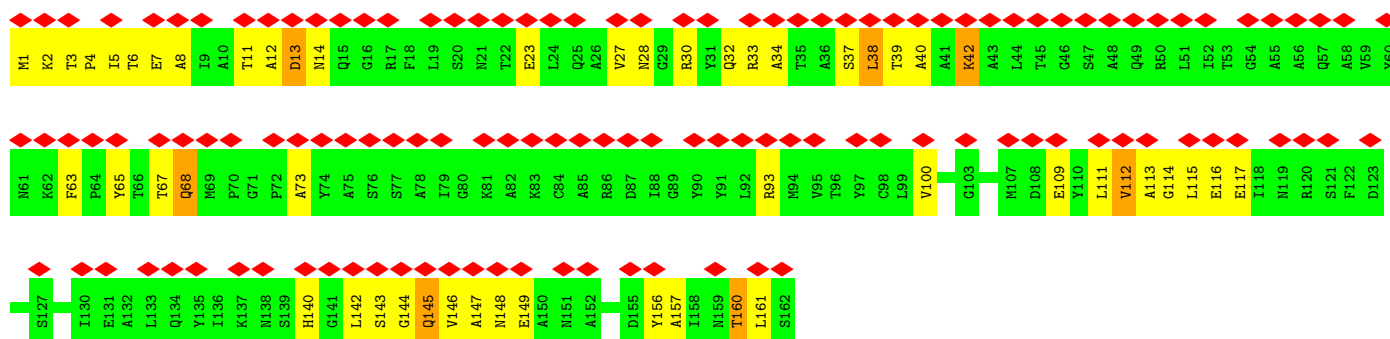
- Molecule 4: C-phycoerythrin alpha subunit

Chain MI:  86% 13%



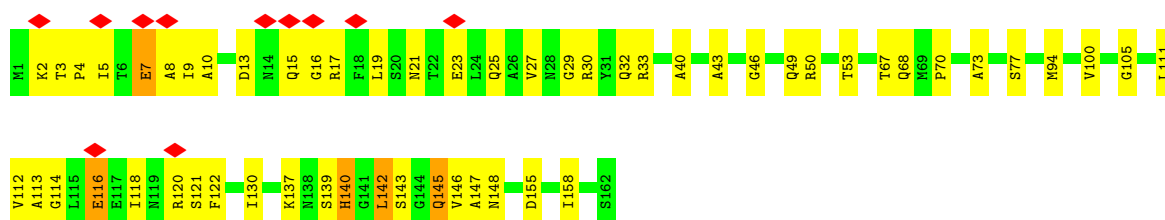
• Molecule 4: C-phycoerythrin alpha subunit

Chain CK:  77% 68% 28%



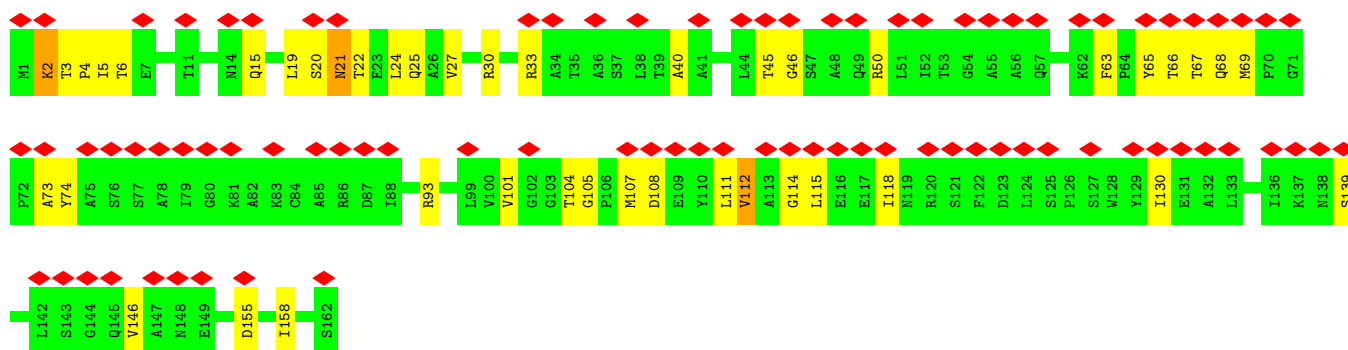
• Molecule 4: C-phycoerythrin alpha subunit

Chain EK:  7% 65% 31%



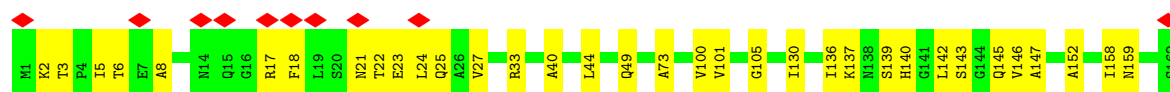
• Molecule 4: C-phycoerythrin alpha subunit

Chain GK:  52% 73% 25%

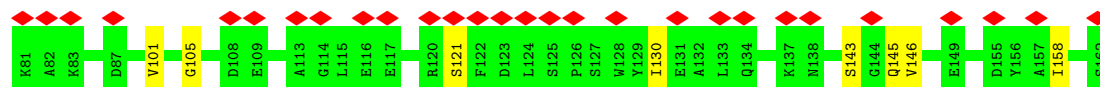
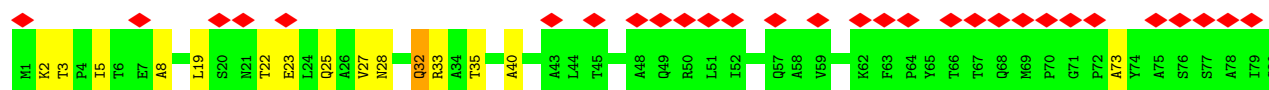
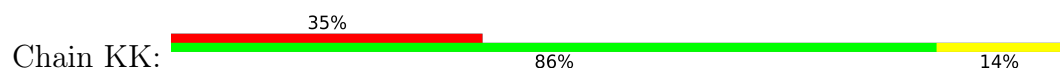


• Molecule 4: C-phycoerythrin alpha subunit

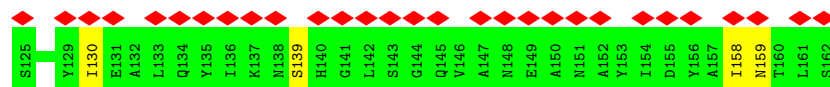
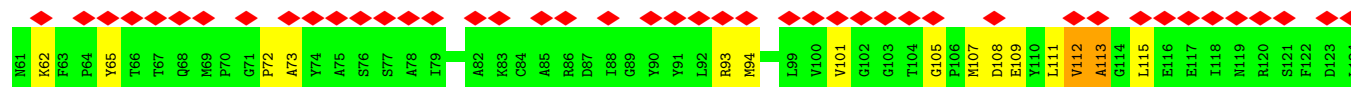
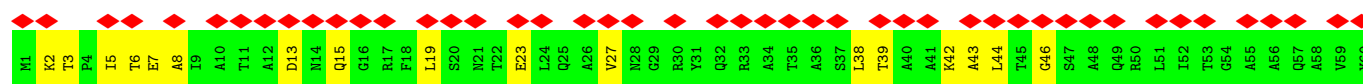
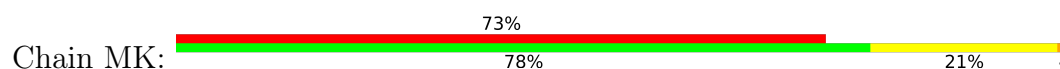
Chain IK:  6% 79% 21%



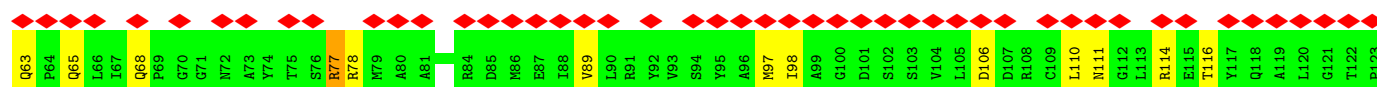
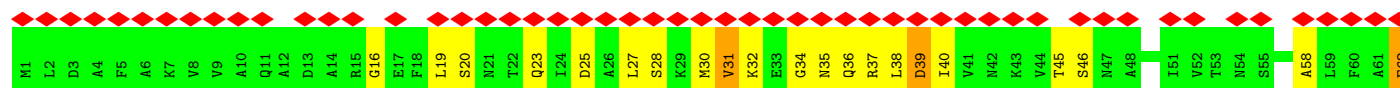
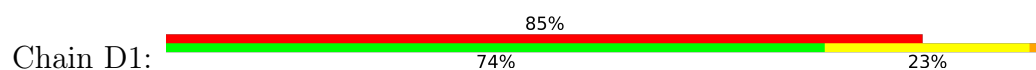
• Molecule 4: C-phycocyanin alpha subunit



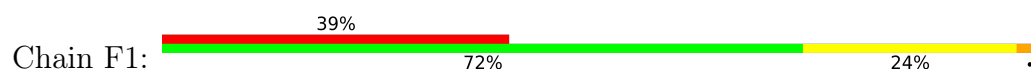
• Molecule 4: C-phycocyanin alpha subunit

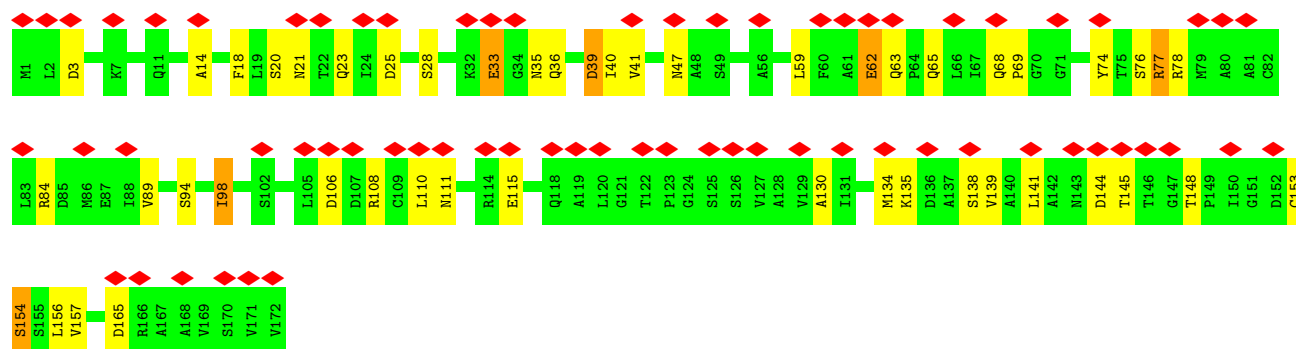


• Molecule 5: C-phycocyanin beta subunit

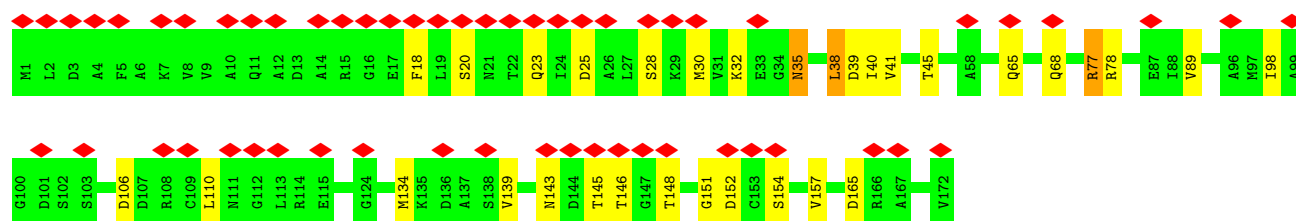
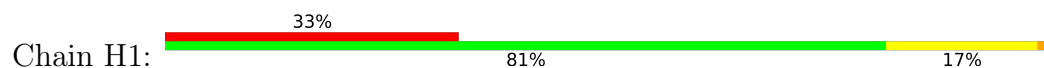


• Molecule 5: C-phycocyanin beta subunit

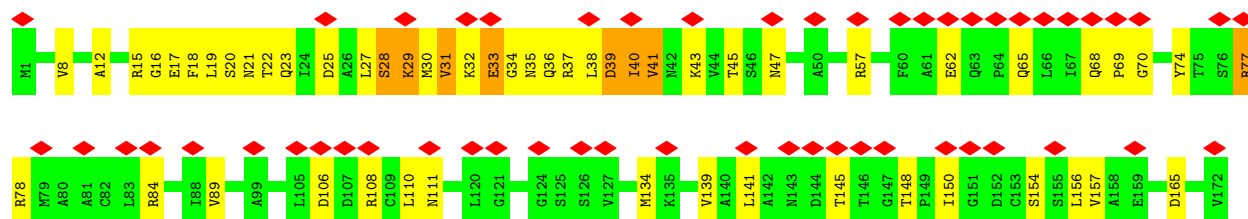




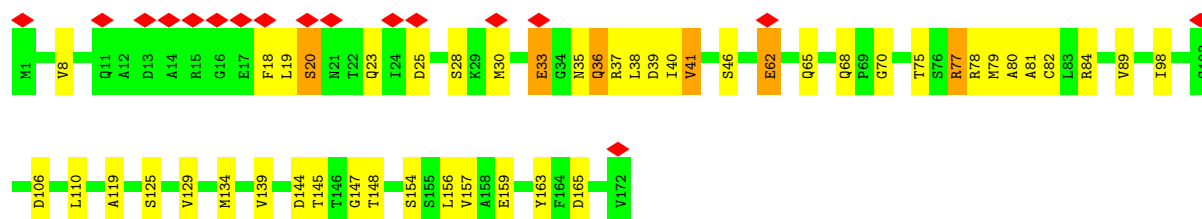
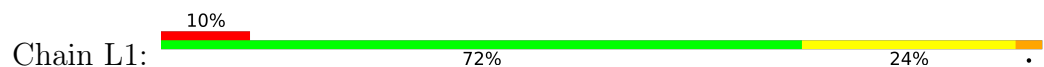
• Molecule 5: C-phycoerythrin beta subunit



• Molecule 5: C-phycoerythrin beta subunit

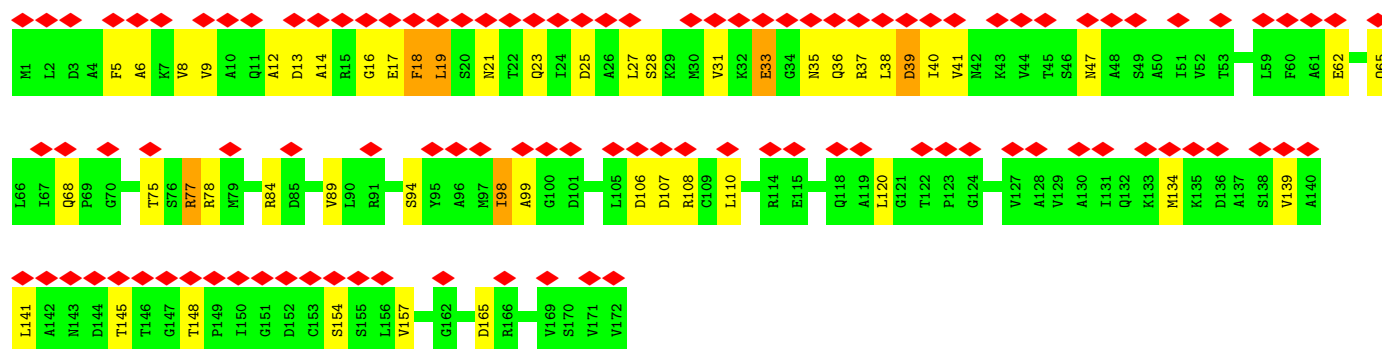


• Molecule 5: C-phycoerythrin beta subunit

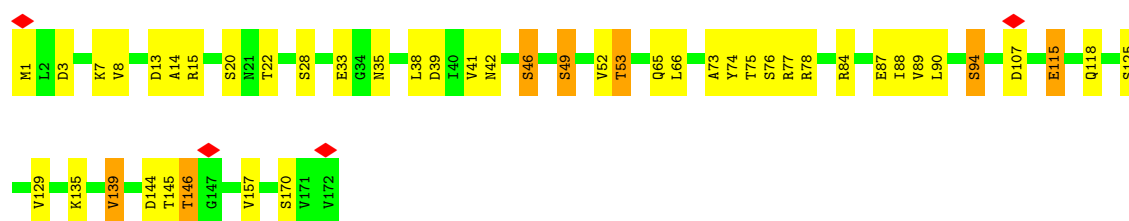
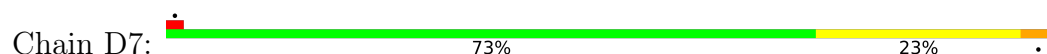


• Molecule 5: C-phycoerythrin beta subunit

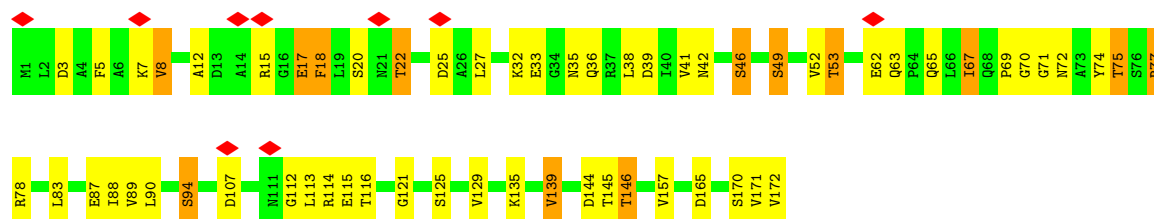




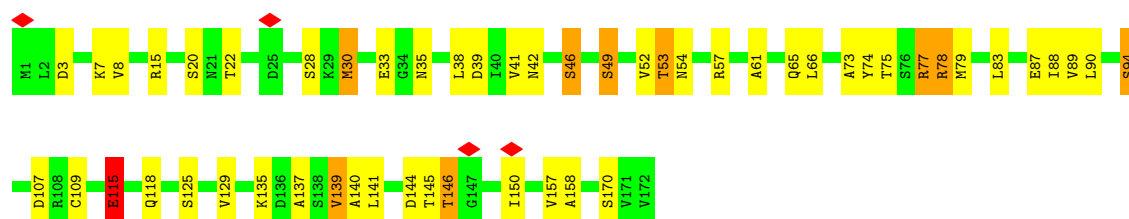
• Molecule 5: C-phycoerythrin beta subunit



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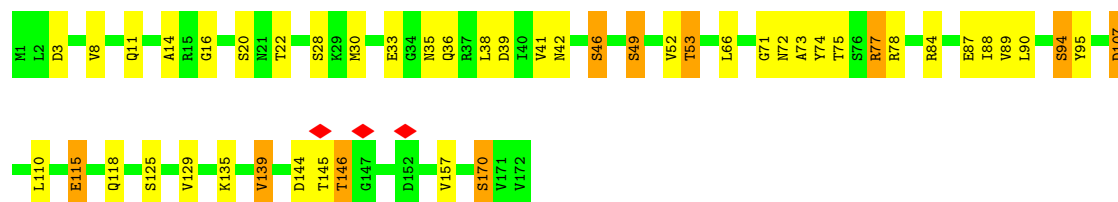


• Molecule 5: C-phycoerythrin beta subunit

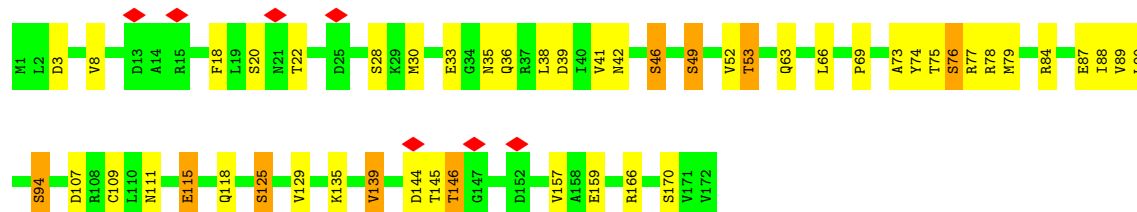


• Molecule 5: C-phycoerythrin beta subunit

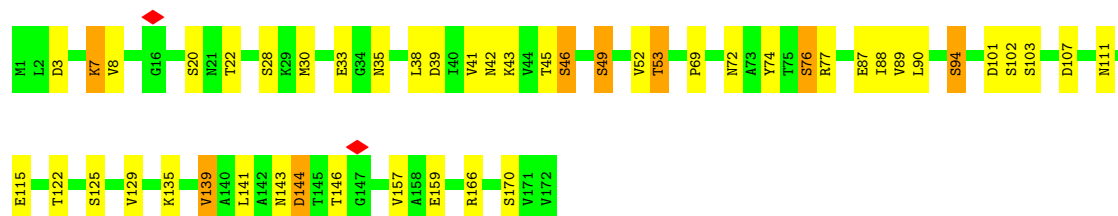
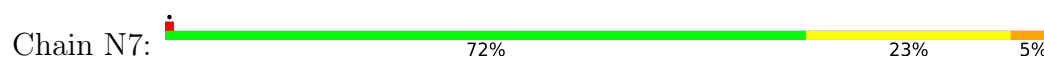




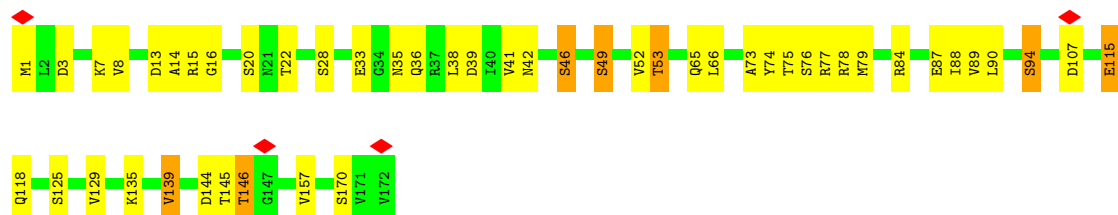
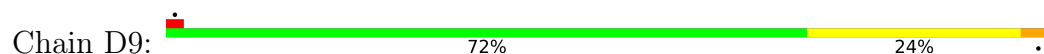
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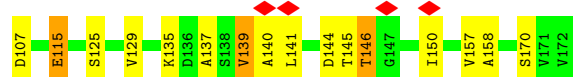
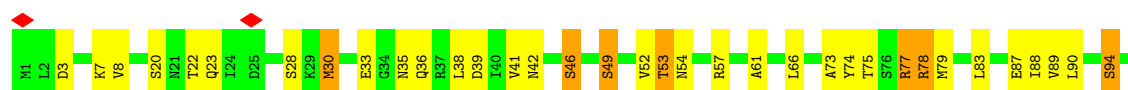


• Molecule 5: C-phycocyanin beta subunit

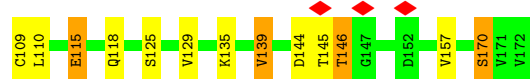
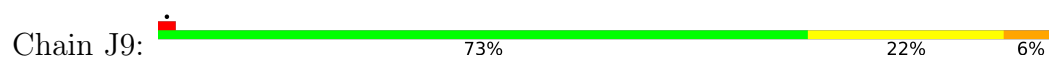




• Molecule 5: C-phycoerythrin beta subunit



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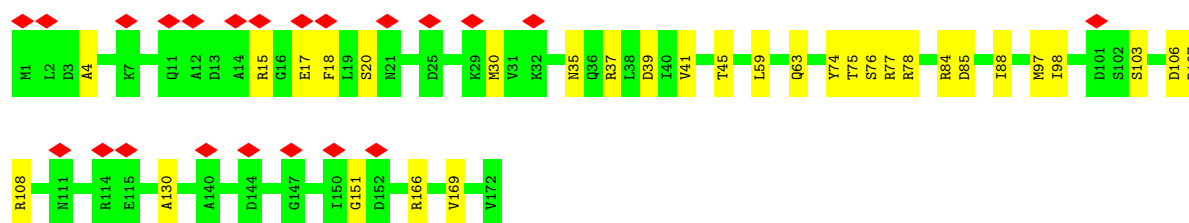
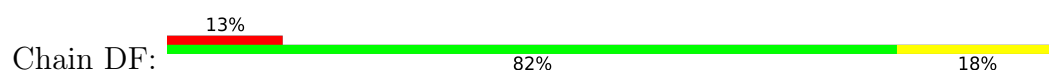
• Molecule 5: C-phycoerythrin beta subunit



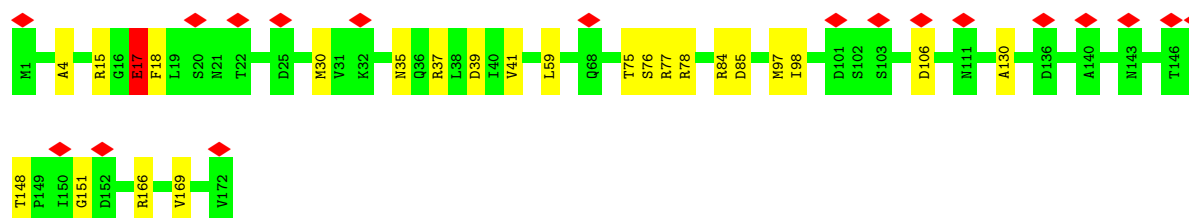
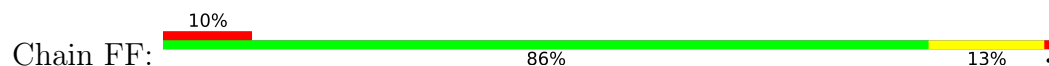
• Molecule 5: C-phycoerythrin beta subunit



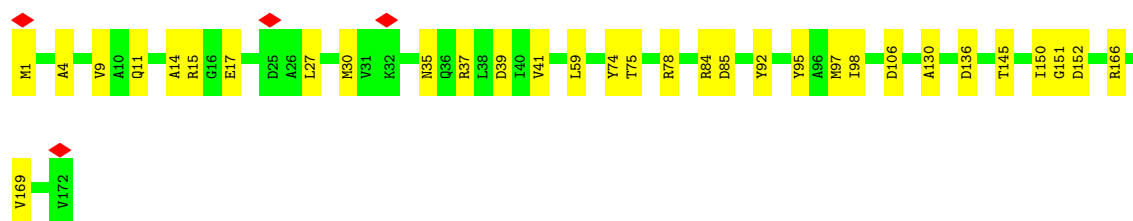
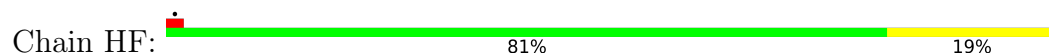
• Molecule 5: C-phycoerythrin beta subunit



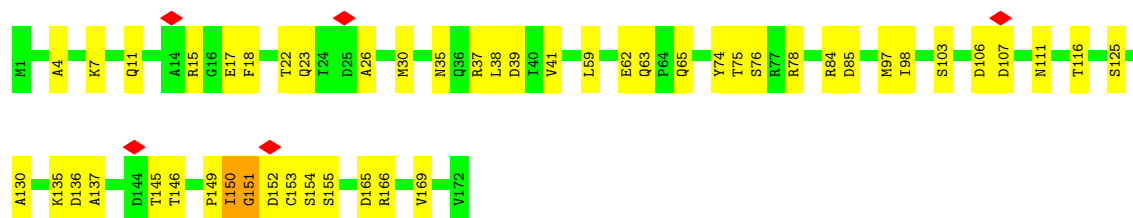
• Molecule 5: C-phycoerythrin beta subunit



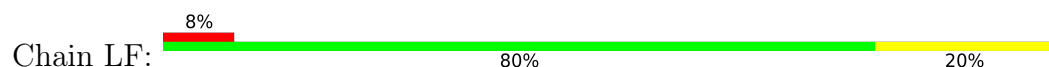
• Molecule 5: C-phycoerythrin beta subunit

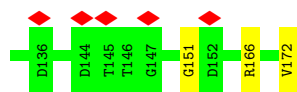


• Molecule 5: C-phycoerythrin beta subunit

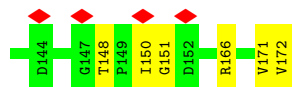
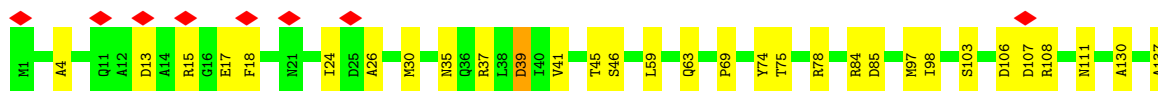
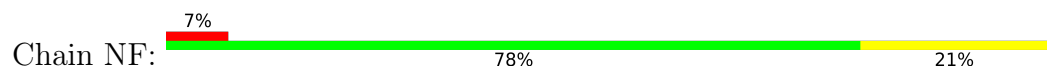


• Molecule 5: C-phycoerythrin beta subunit

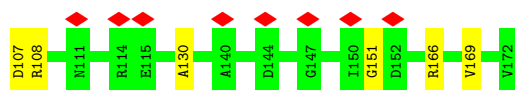
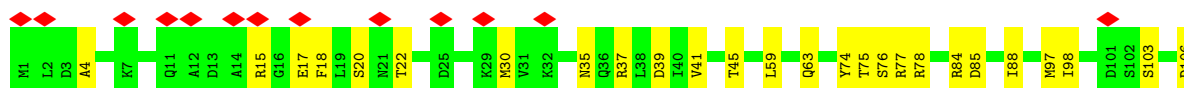
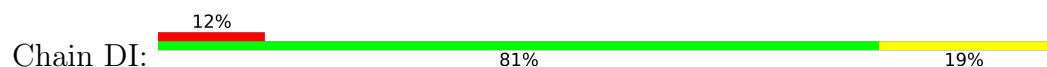




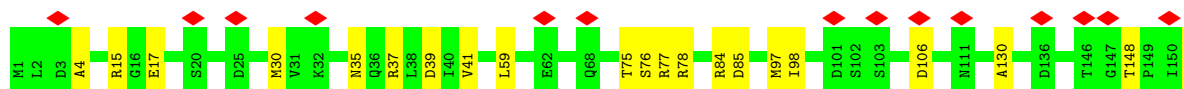
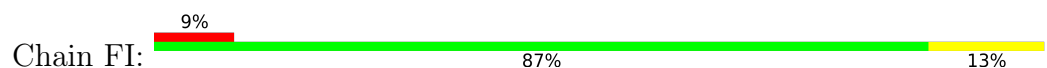
- Molecule 5: C-phycoerythrin beta subunit



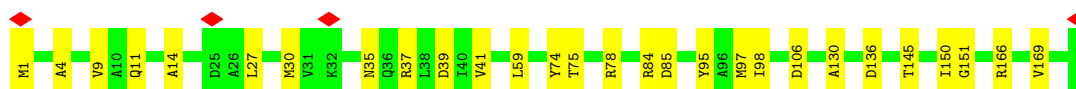
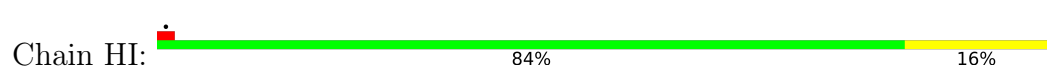
- Molecule 5: C-phycoerythrin beta subunit



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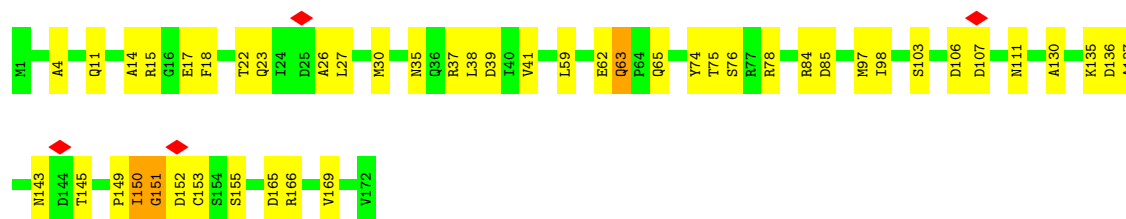


- Molecule 5: C-phycoerythrin beta subunit

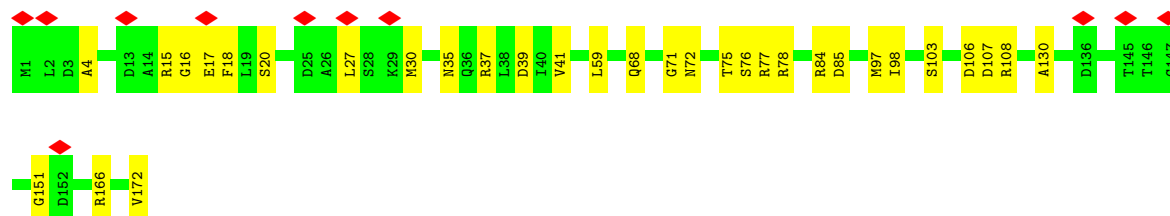
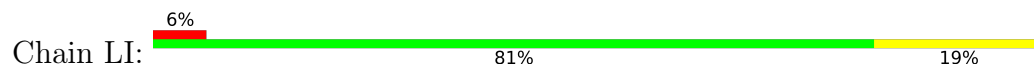


- Molecule 5: C-phycoerythrin beta subunit

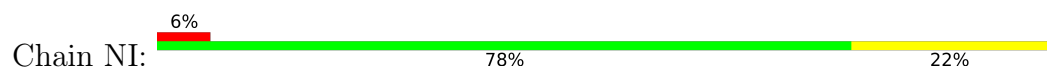




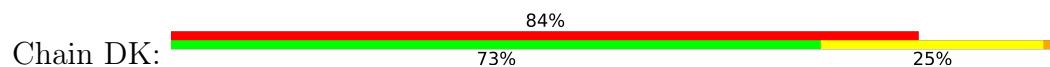
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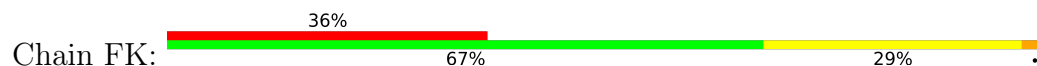
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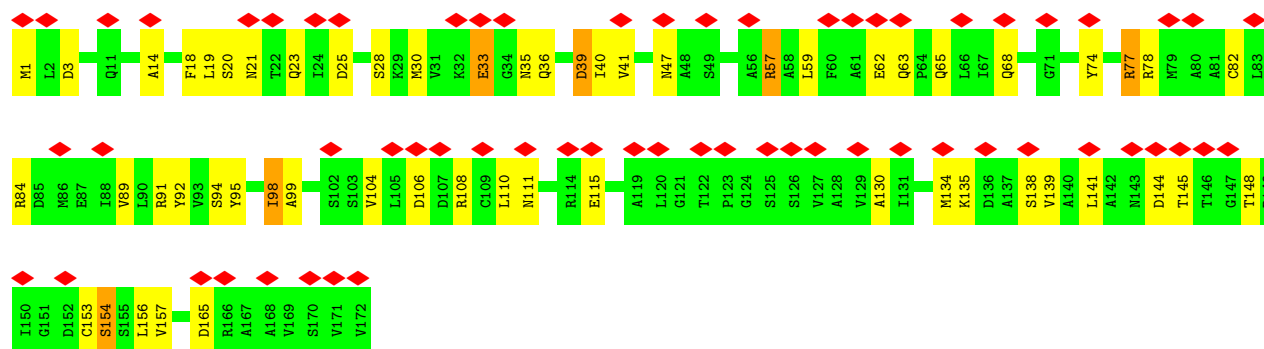


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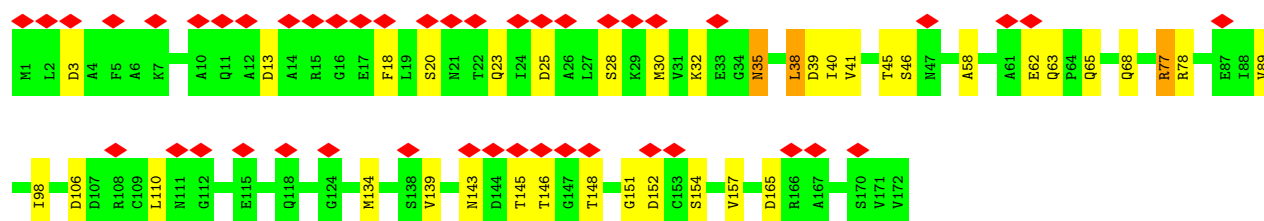
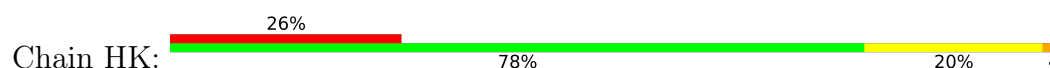


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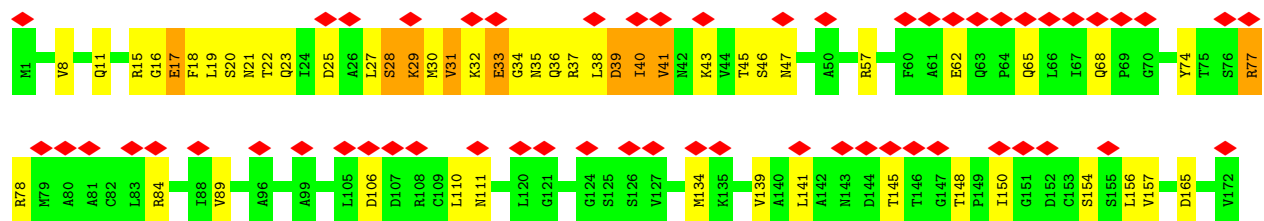




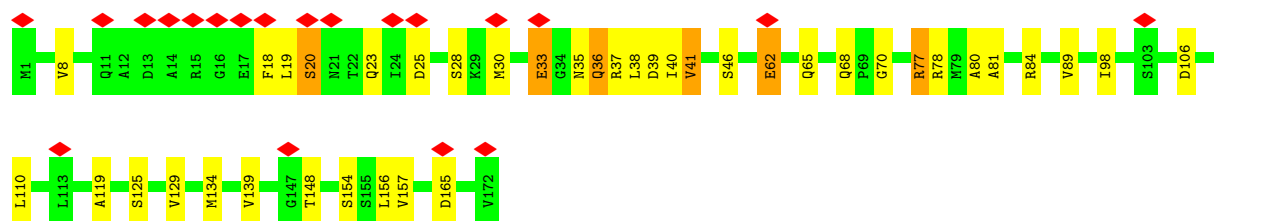
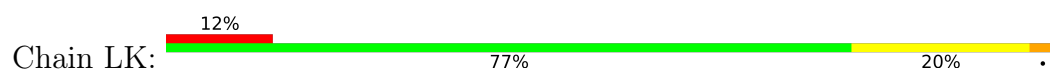
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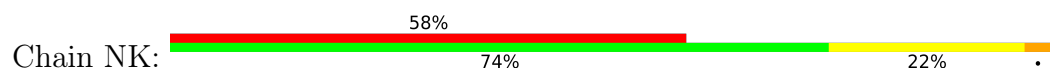
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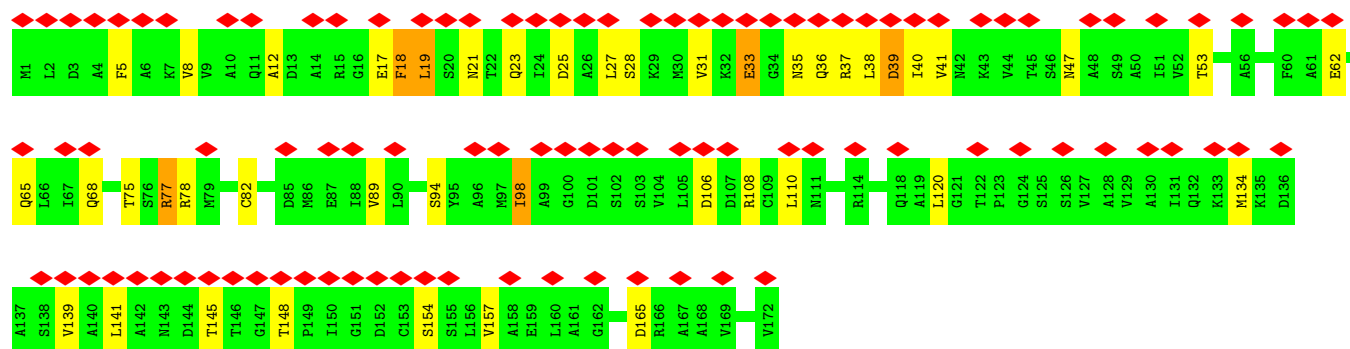


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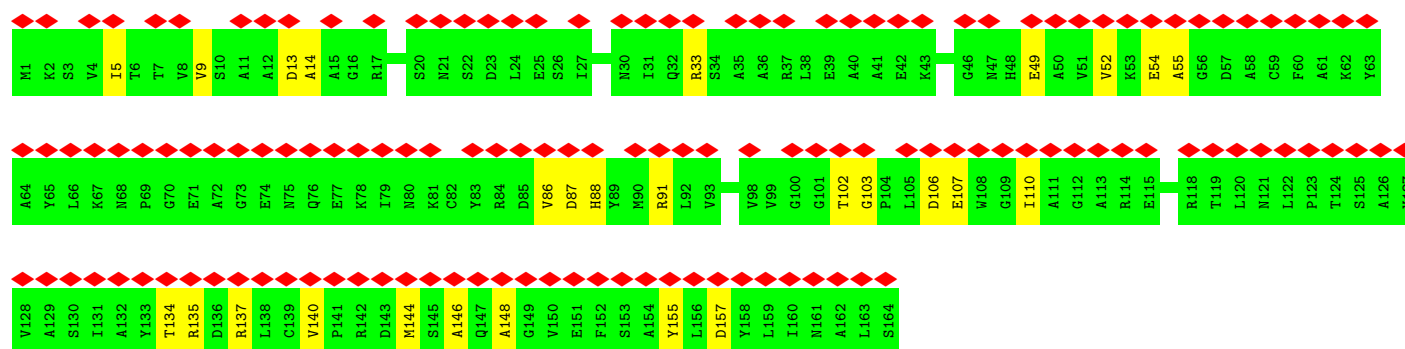
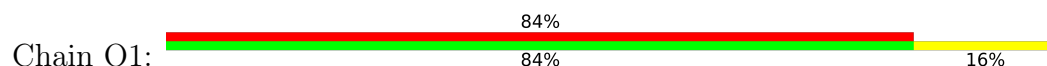


• Molecule 5: C-phycoerythrin beta subunit

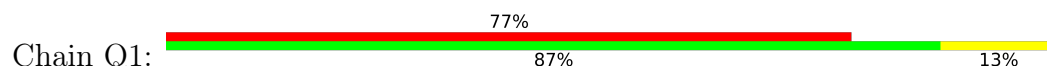




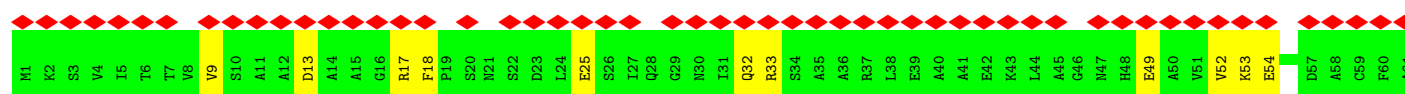
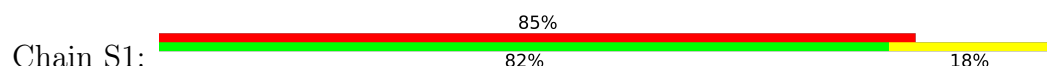
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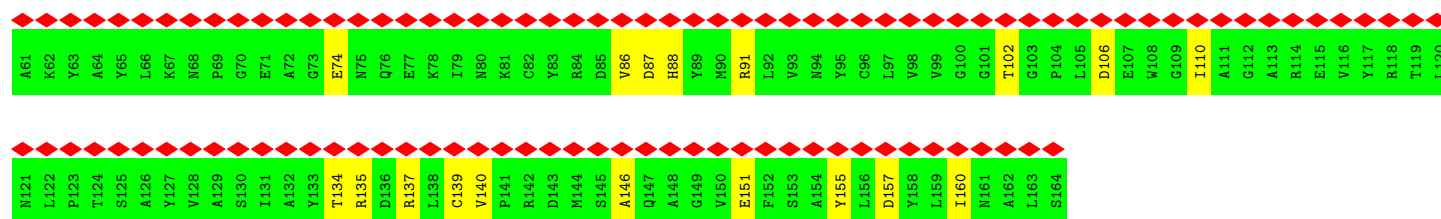
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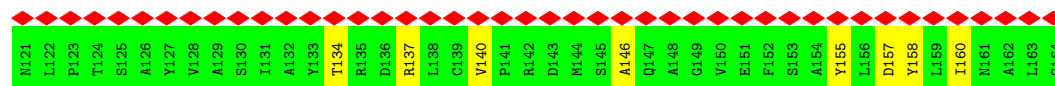
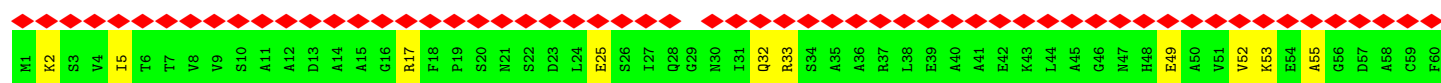
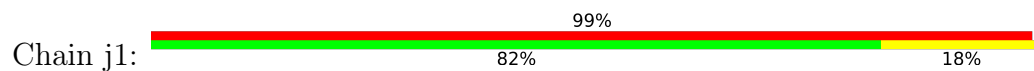
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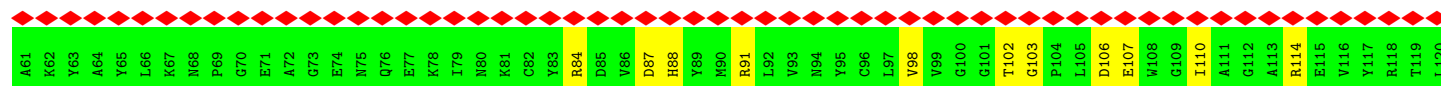
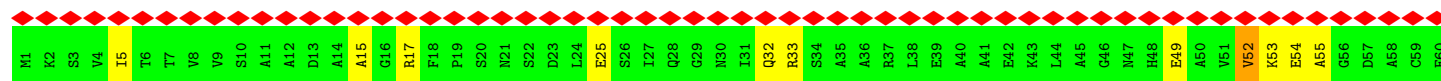
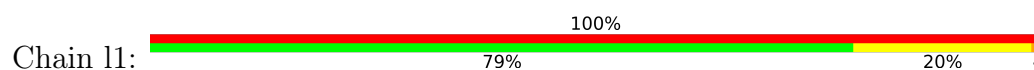




• Molecule 6: Phycoerythrin alpha subunit



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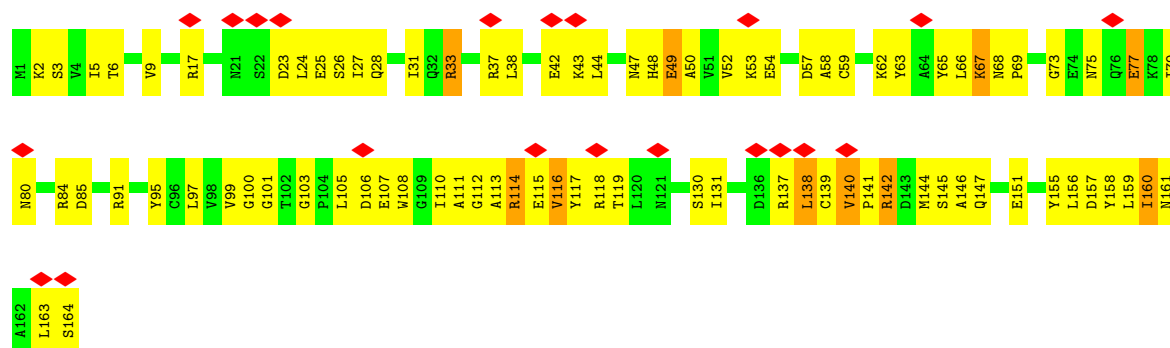


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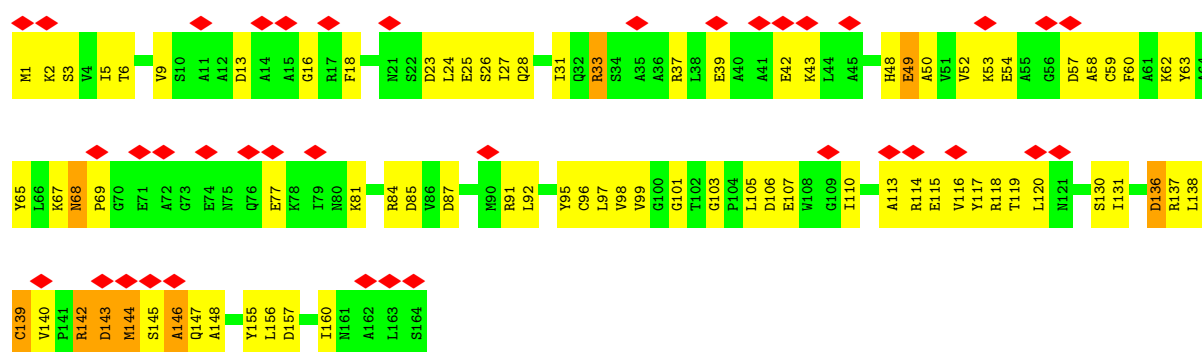




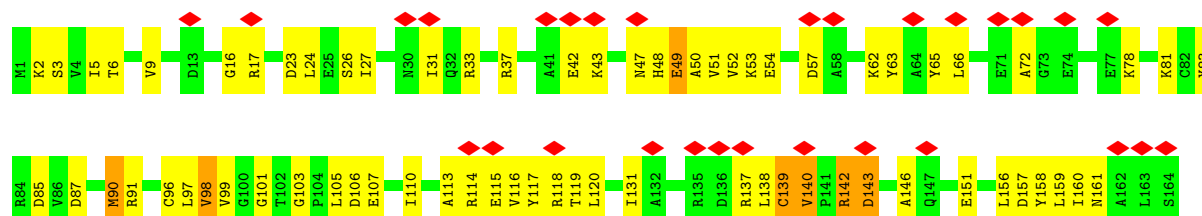
• Molecule 6: Phycoerythrin alpha subunit



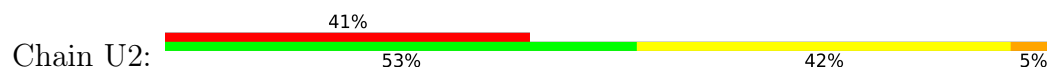
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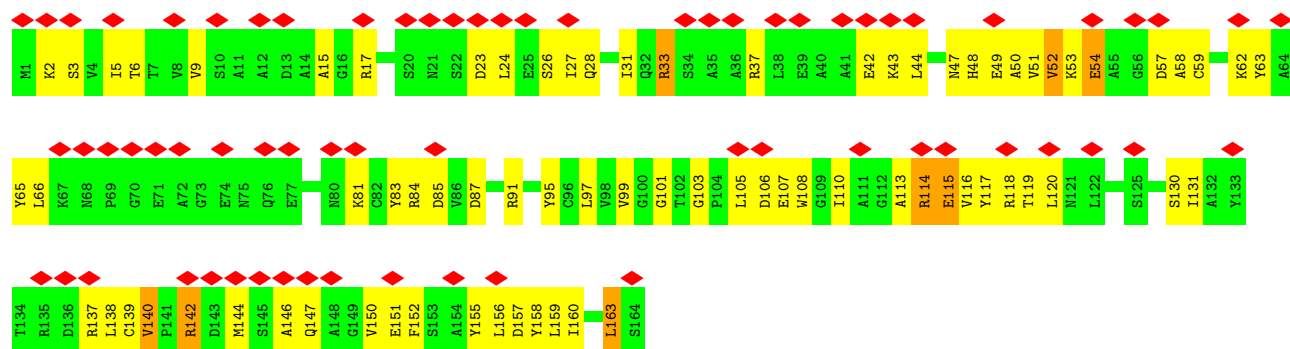


• Molecule 6: Phycoerythrin alpha subunit



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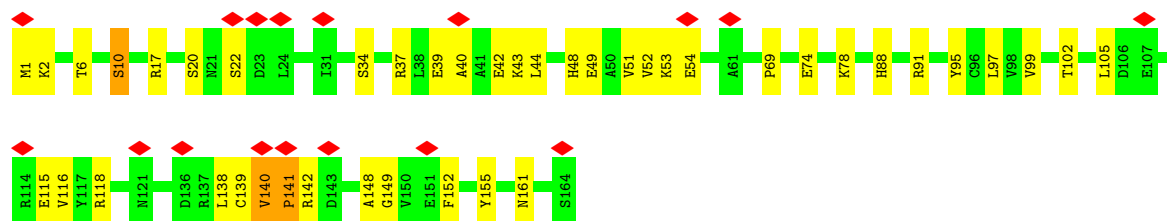
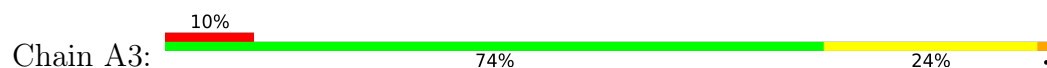




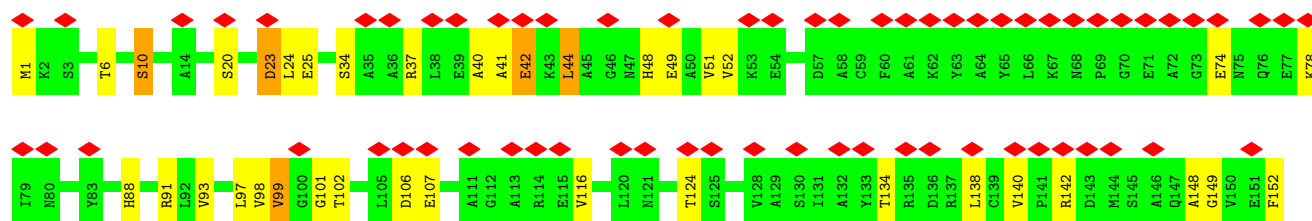
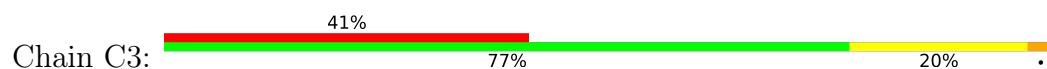
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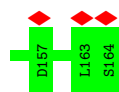


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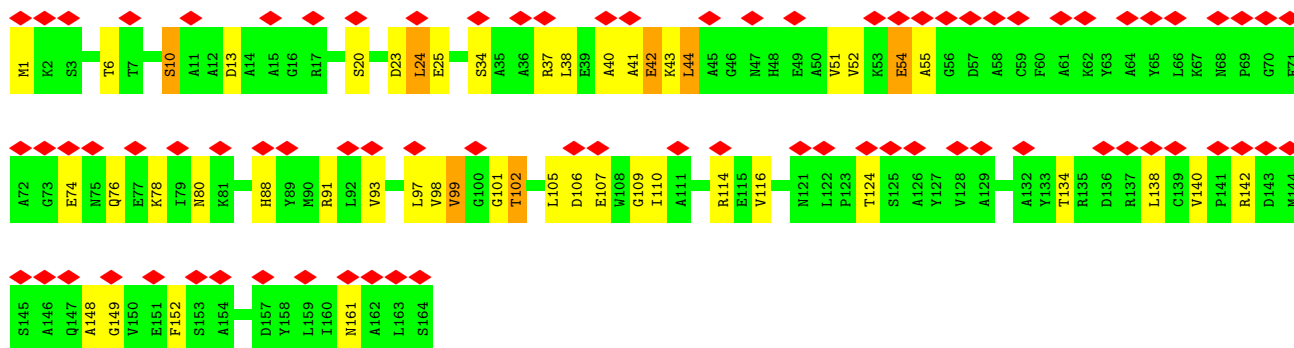
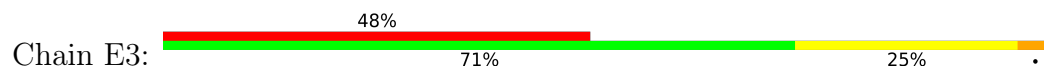


• Molecule 6: Phycoerythrin alpha subunit

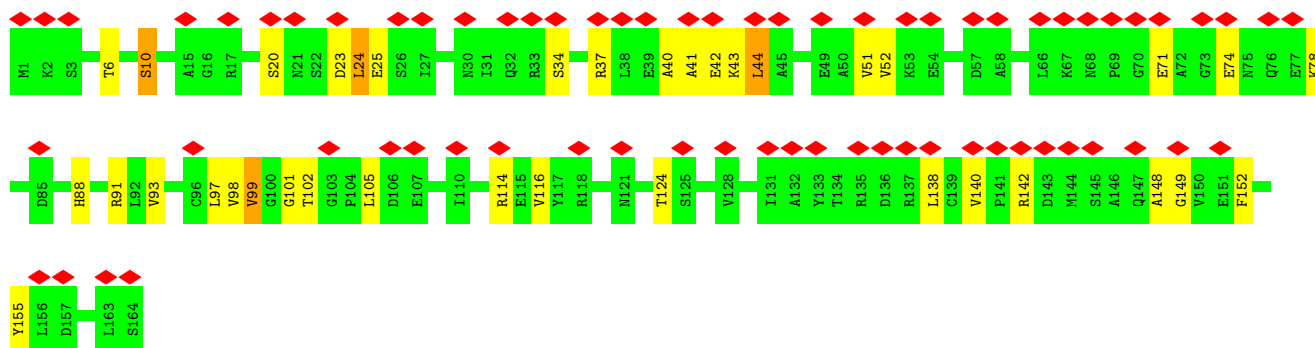
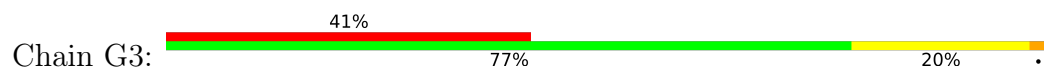




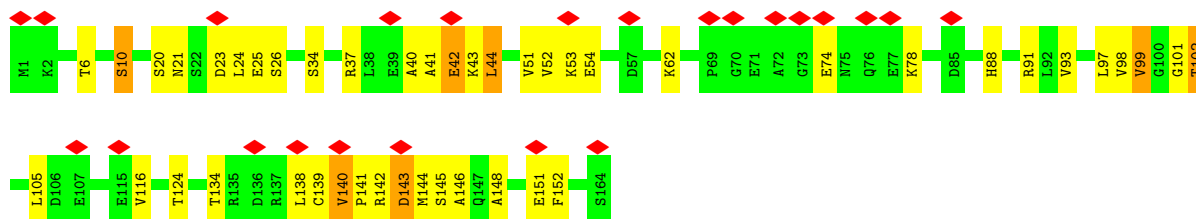
• Molecule 6: Phycoerythrin alpha subunit



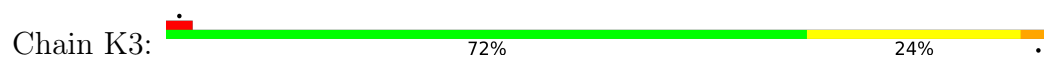
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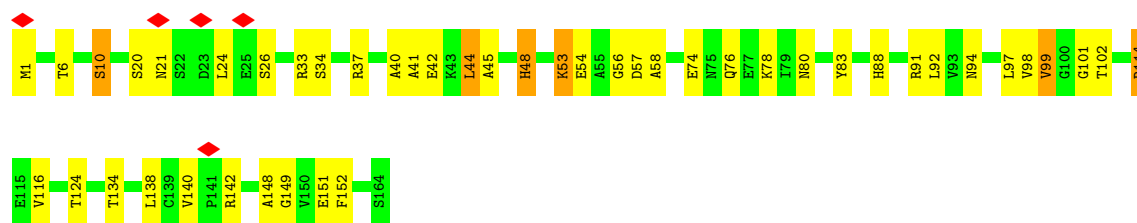


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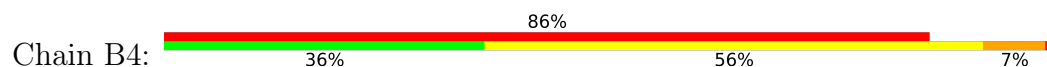


• Molecule 6: Phycoerythrin alpha subunit

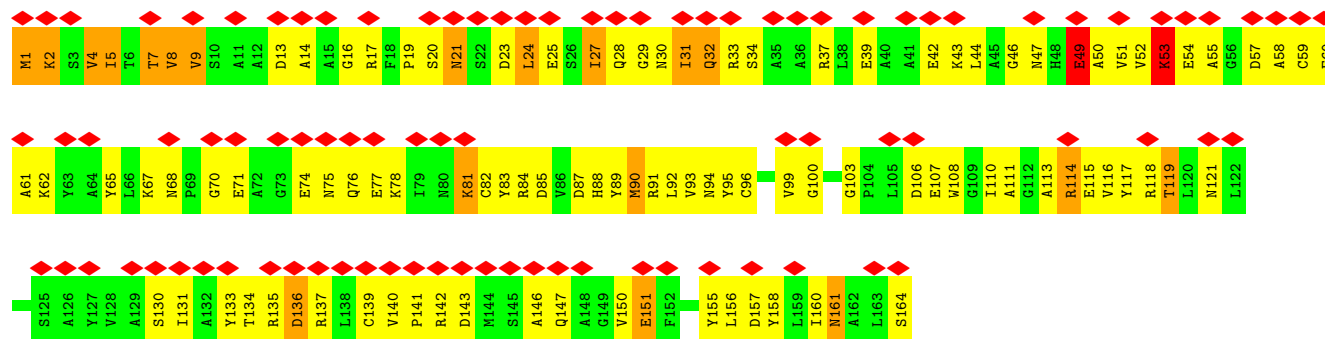




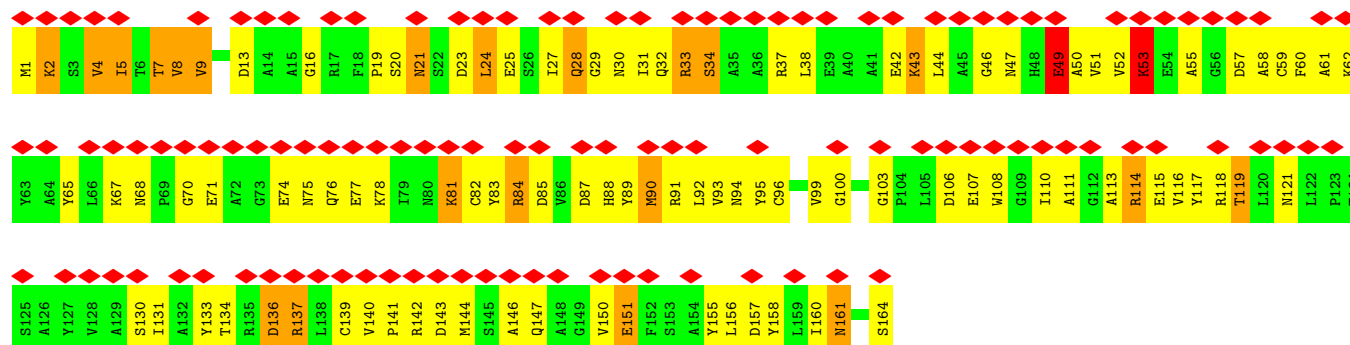
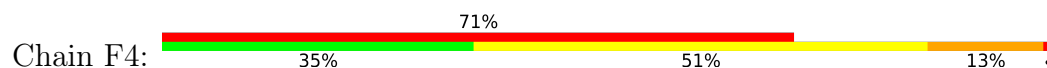
• Molecule 6: Phycoerythrin alpha subunit



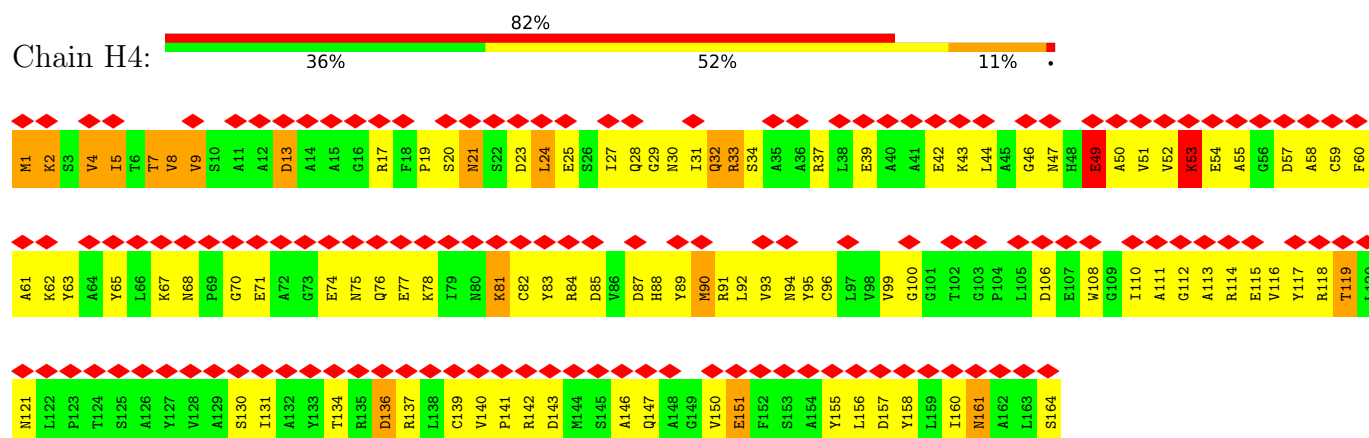
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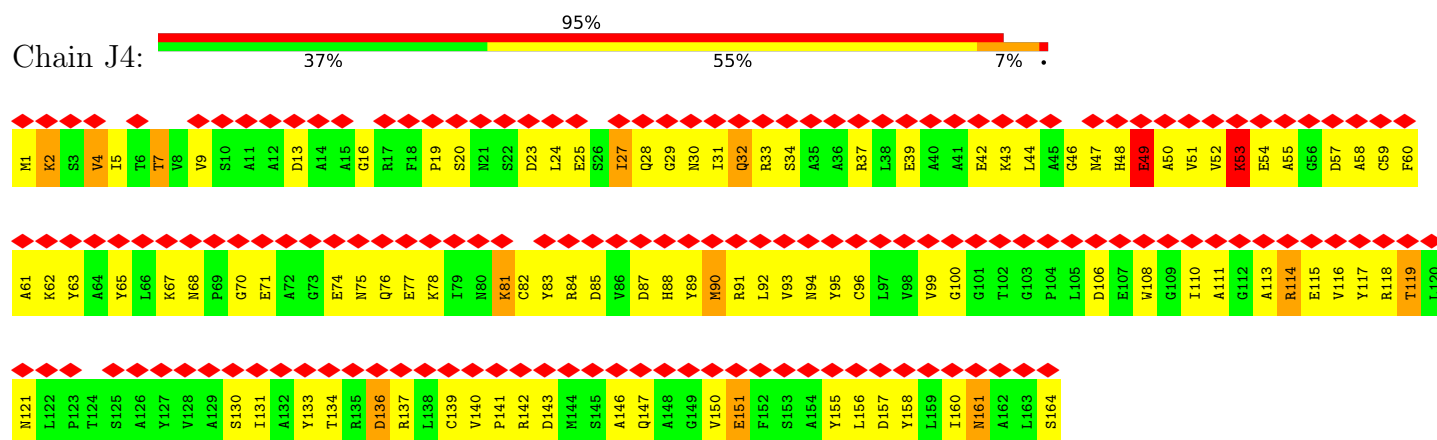
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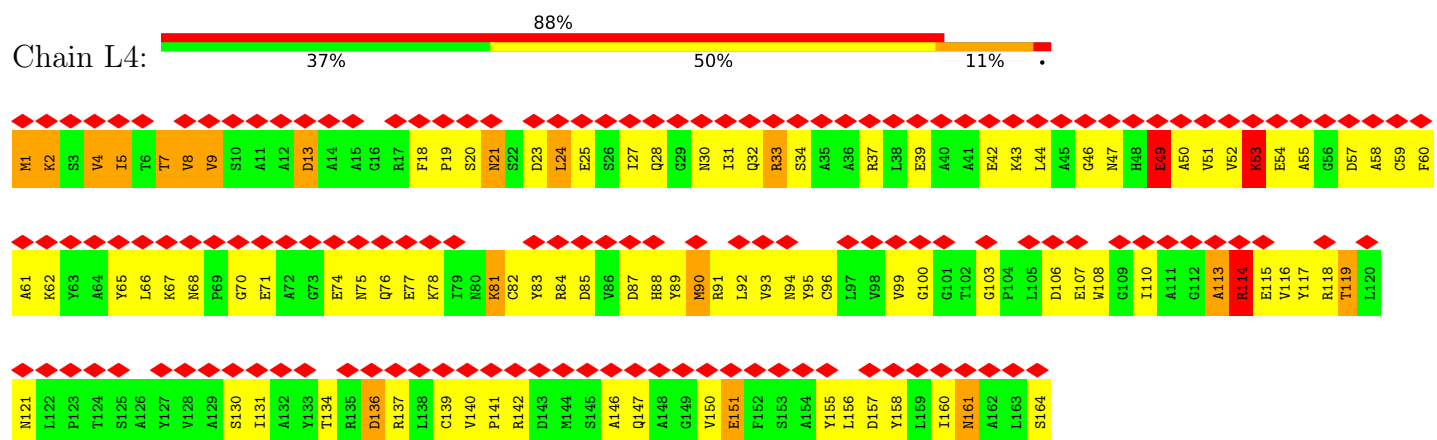
- Molecule 6: Phycoerythrin alpha subunit



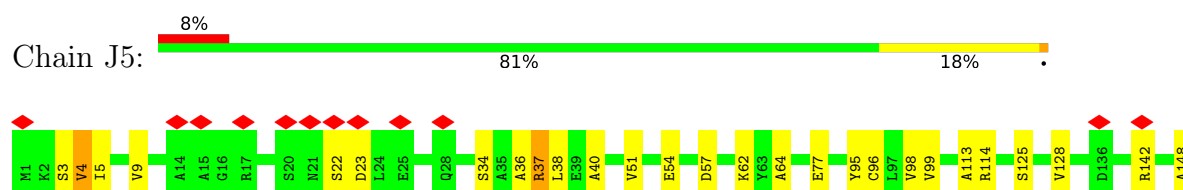
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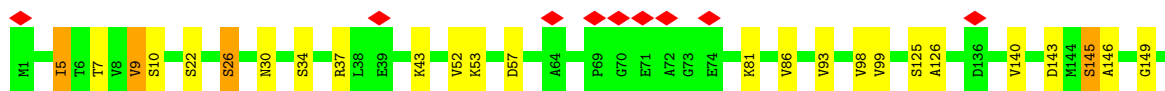
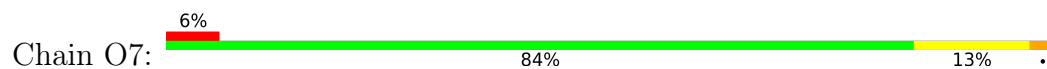


- Molecule 6: Phycoerythrin alpha subunit

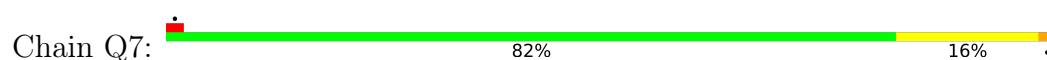




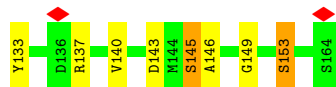
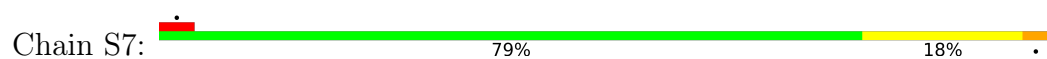
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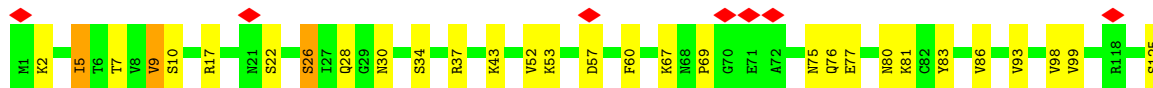
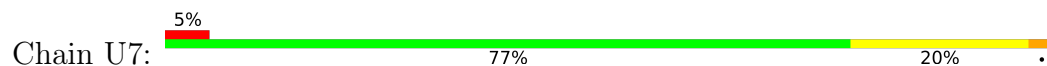
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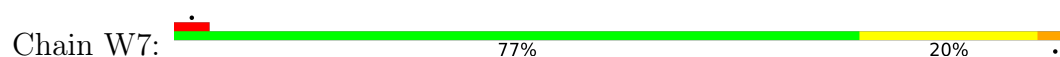
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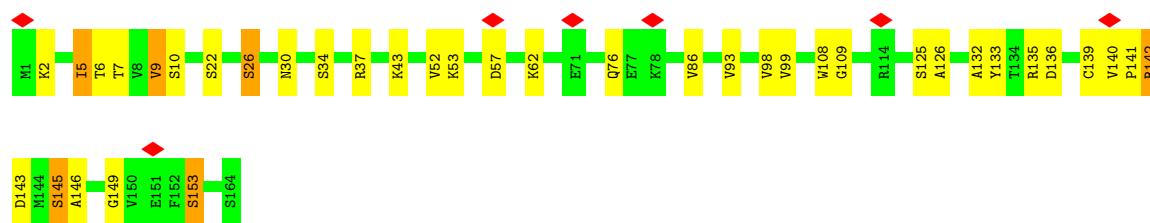


- Molecule 6: Phycoerythrin alpha subunit

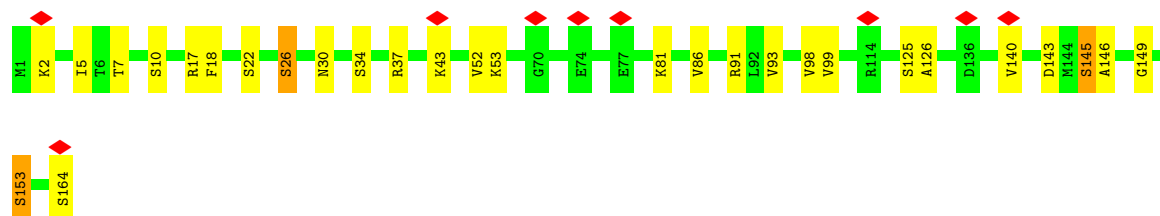
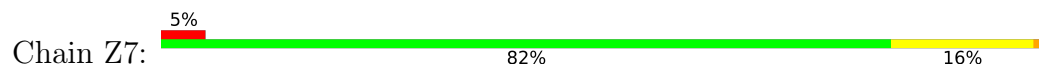


- Molecule 6: Phycoerythrin alpha subunit

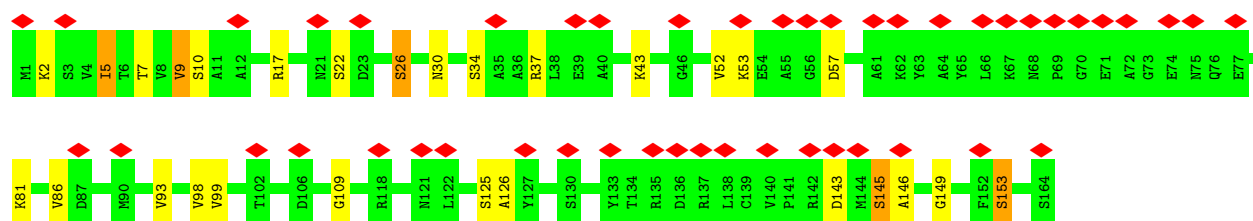
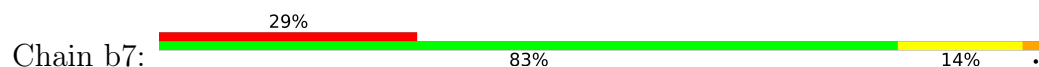




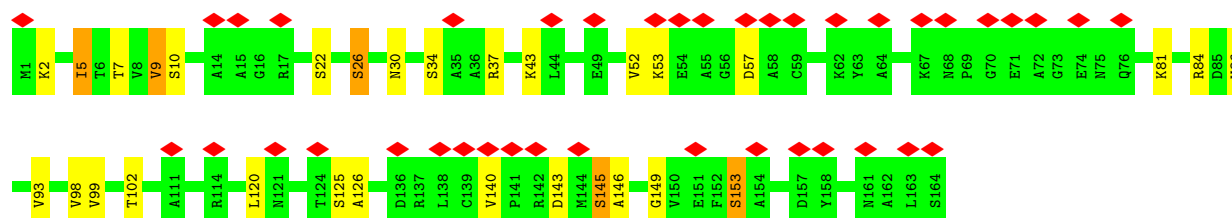
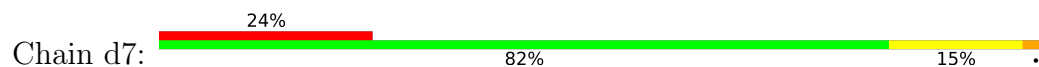
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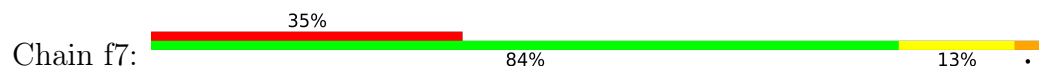
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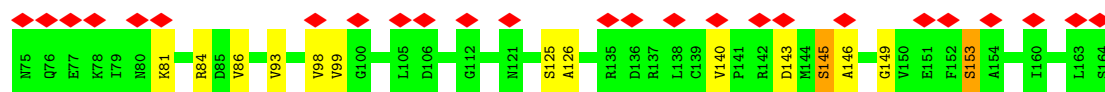


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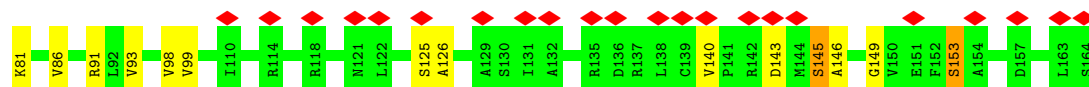
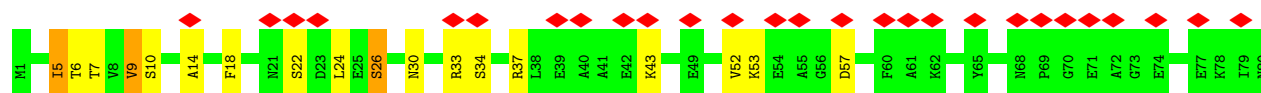
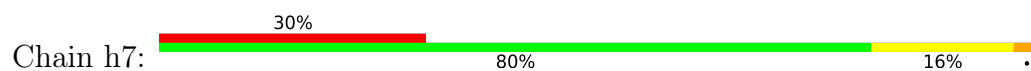


• Molecule 6: Phycoerythrin alpha subunit

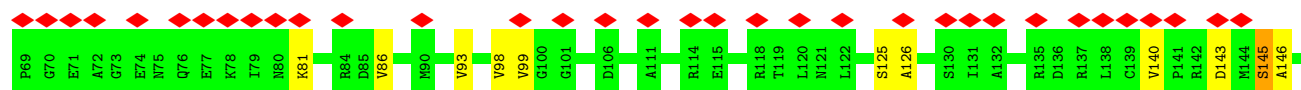
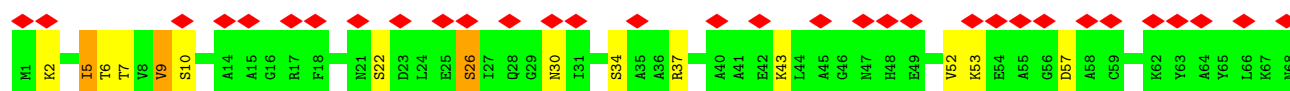
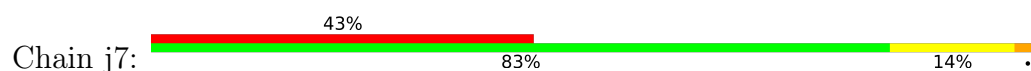




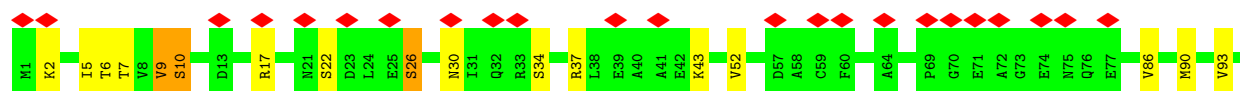
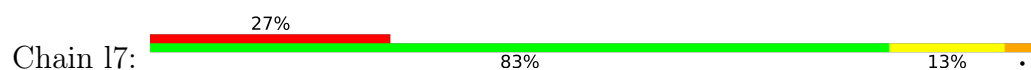
• Molecule 6: Phycoerythrin alpha subunit



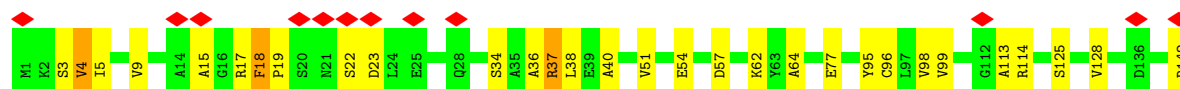
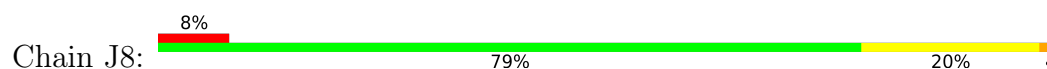
• Molecule 6: Phycoerythrin alpha subunit



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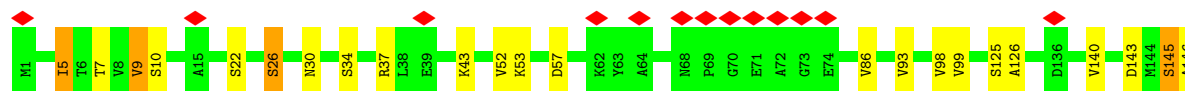
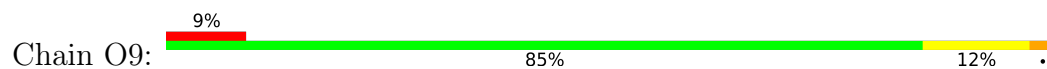


• Molecule 6: Phycoerythrin alpha subunit

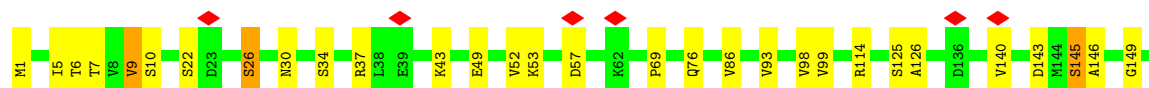
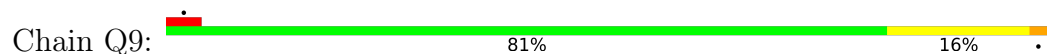




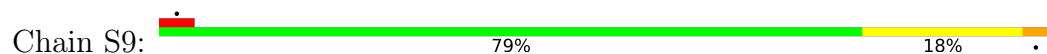
• Molecule 6: Phycoerythrin alpha subunit



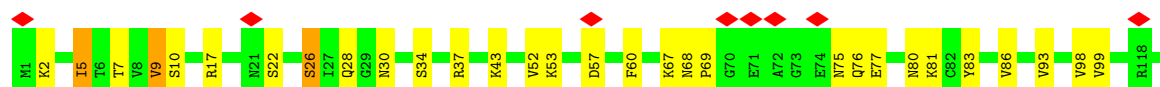
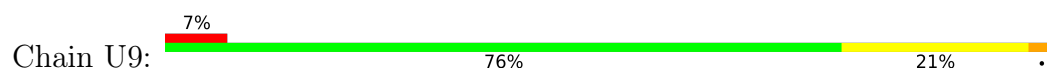
• Molecule 6: Phycoerythrin alpha subunit



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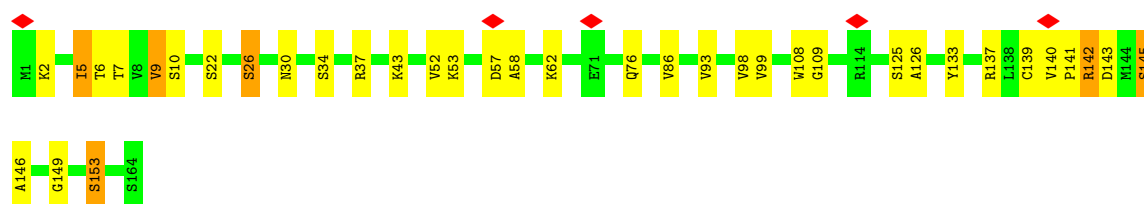


• Molecule 6: Phycoerythrin alpha subunit



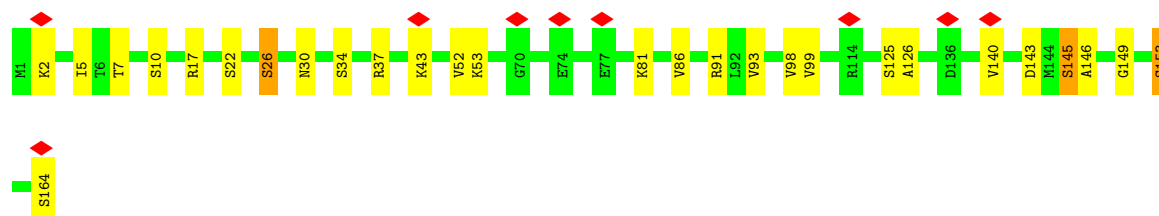
• Molecule 6: Phycoerythrin alpha subunit

Chain W9:  77% 19%



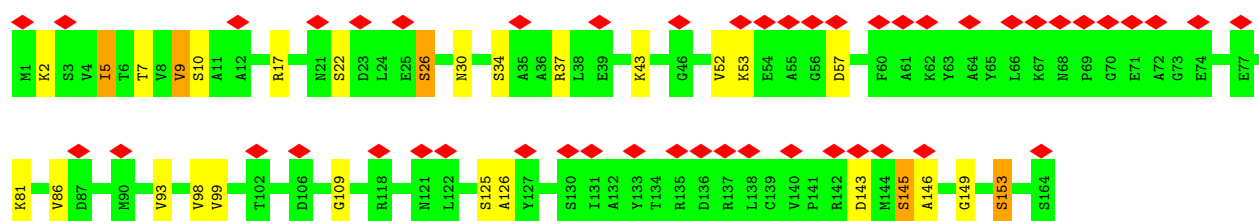
• Molecule 6: Phycoerythrin alpha subunit

Chain Z9:  5% 83% 15%



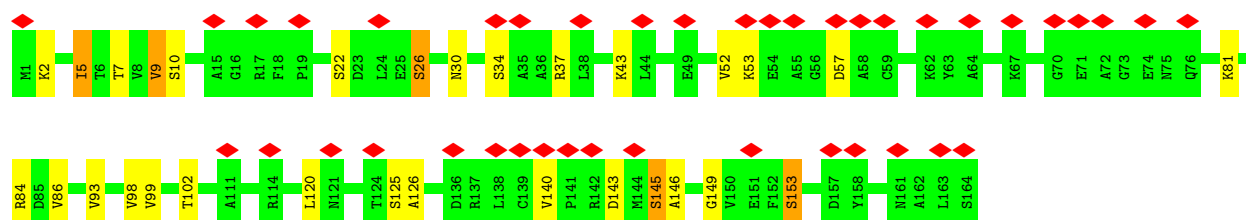
• Molecule 6: Phycoerythrin alpha subunit

Chain b9:  29% 83% 14%



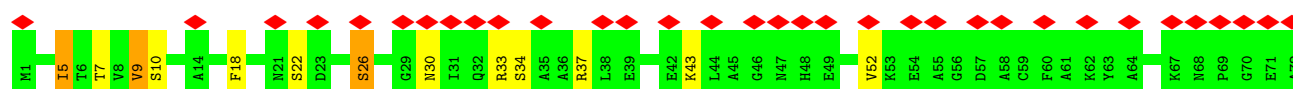
• Molecule 6: Phycoerythrin alpha subunit

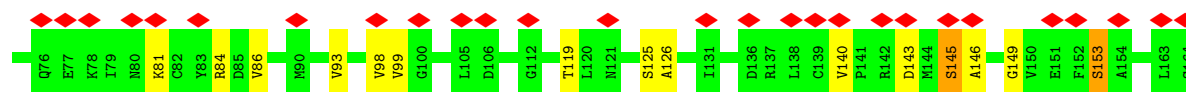
Chain d9:  25% 82% 15%



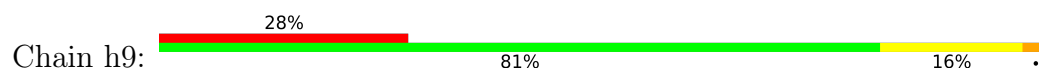
• Molecule 6: Phycoerythrin alpha subunit

Chain f9:  37% 83% 14%

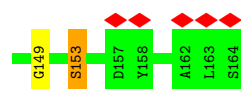
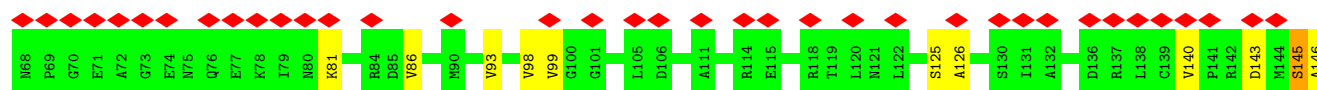
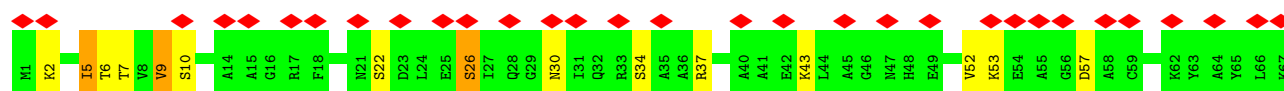
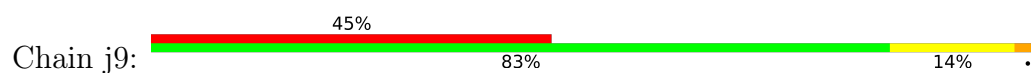




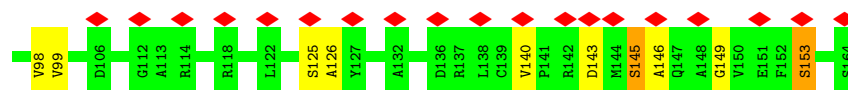
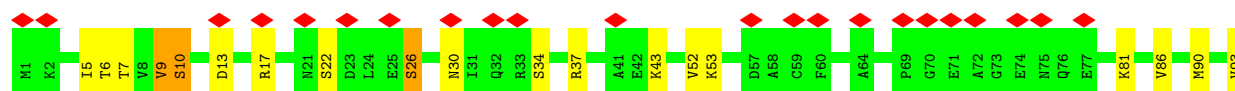
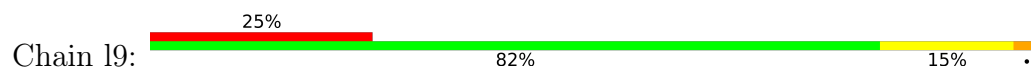
• Molecule 6: Phycoerythrin alpha subunit



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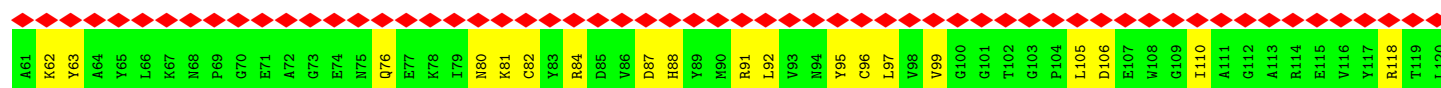




• Molecule 6: Phycoerythrin alpha subunit



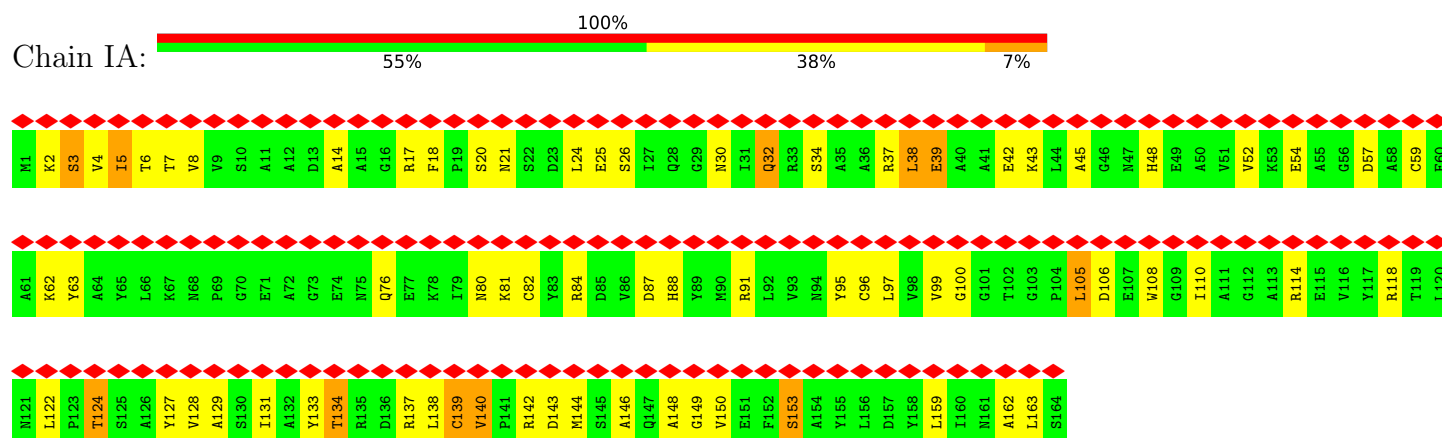
• Molecule 6: Phycoerythrin alpha subunit



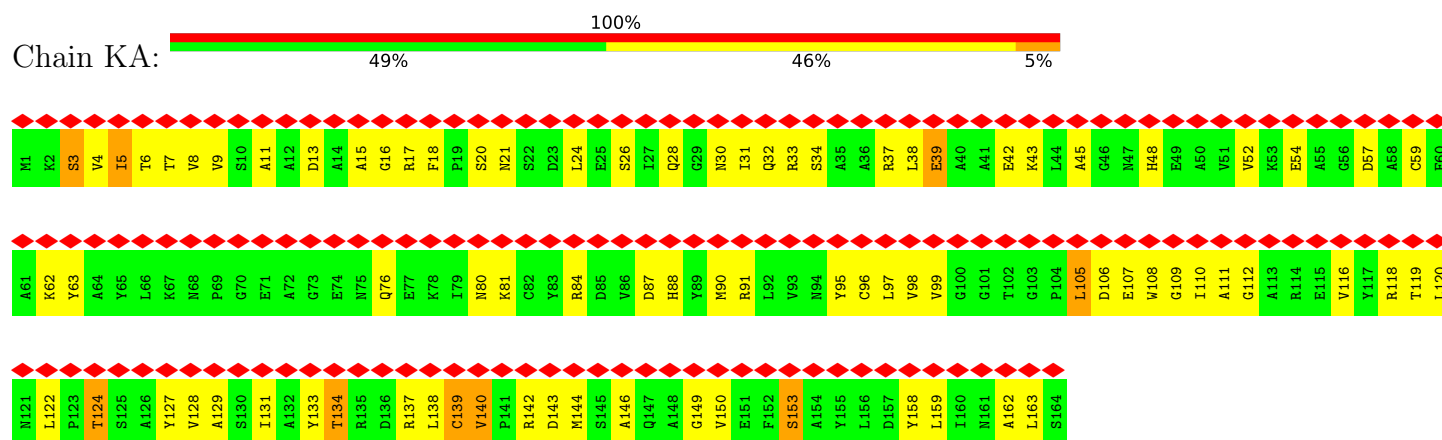
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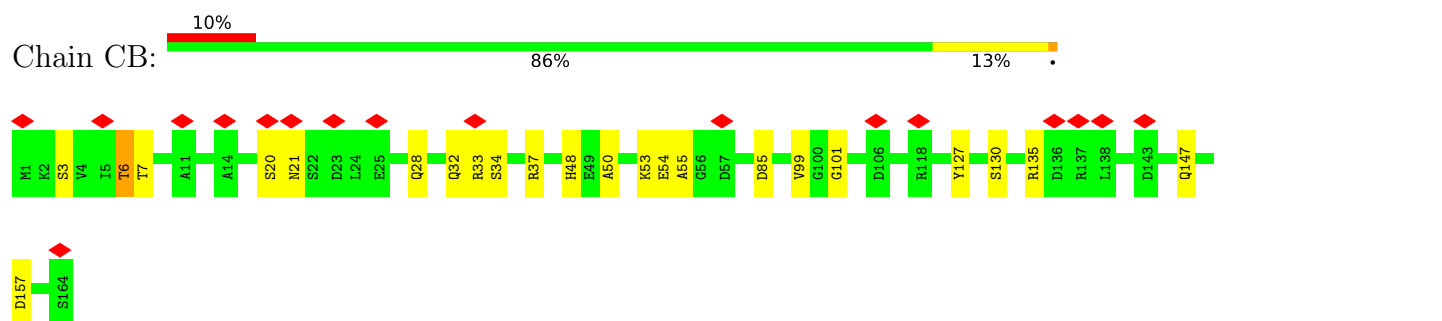
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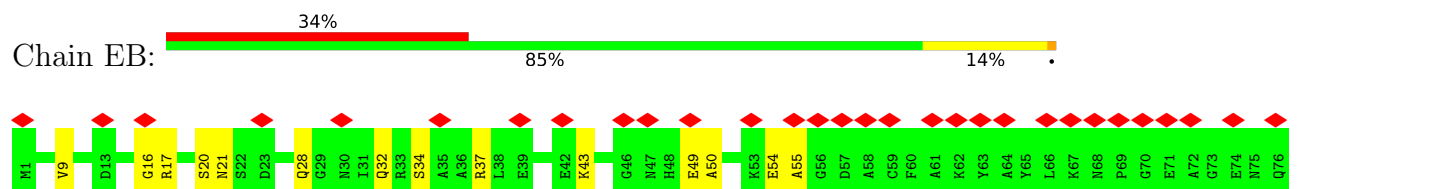
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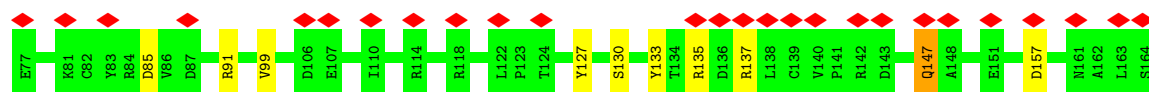


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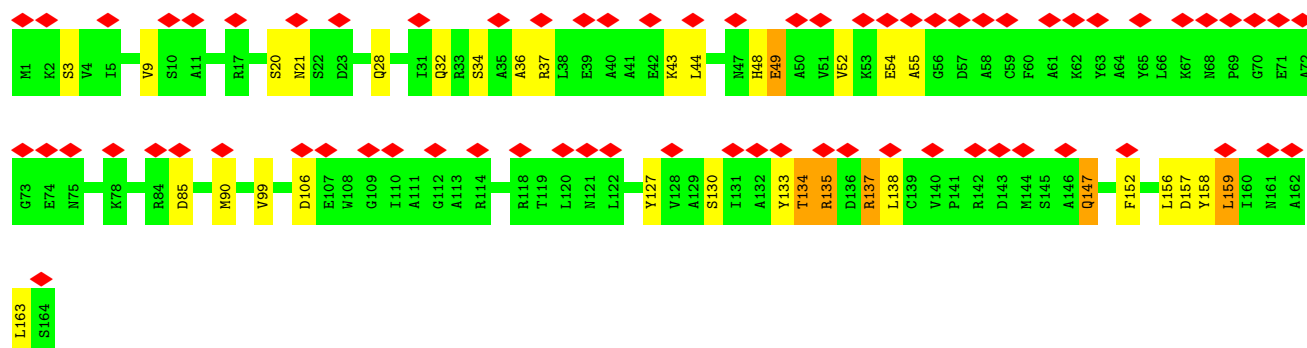
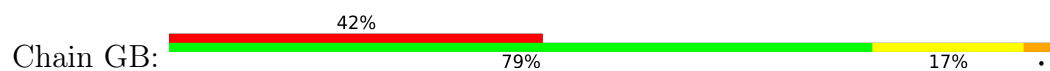


- Molecule 6: Phycoerythrin alpha subunit

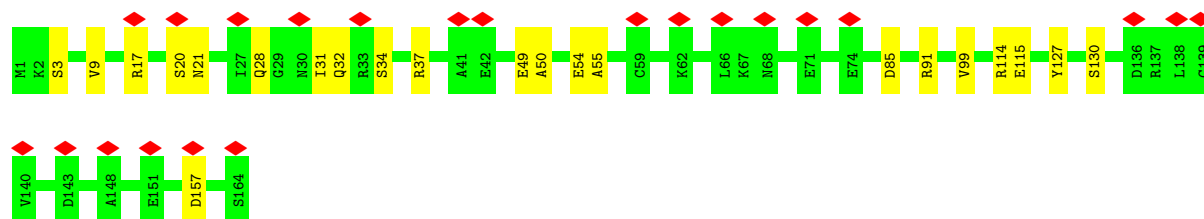
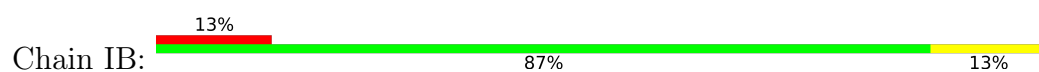




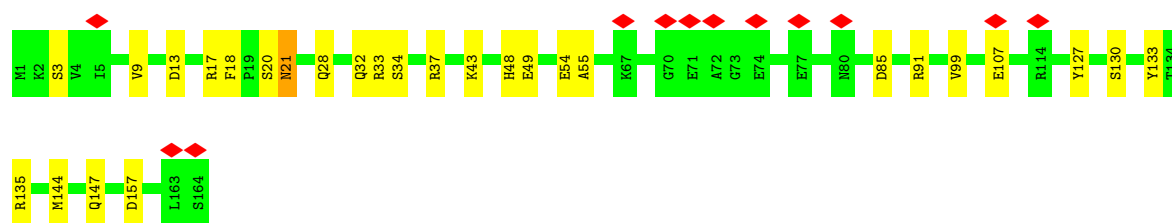
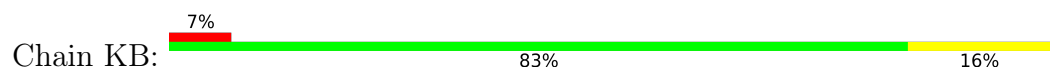
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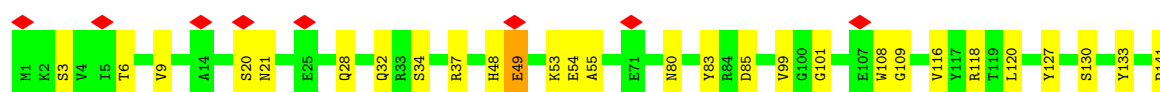
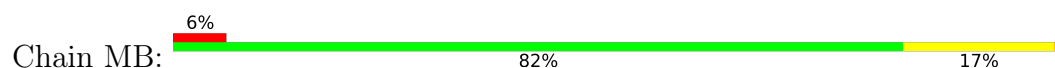
• Molecule 6: Phycoerythrin alpha subunit

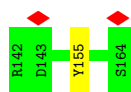


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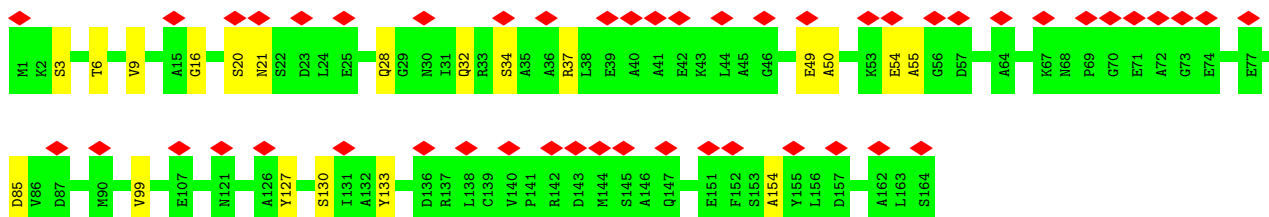
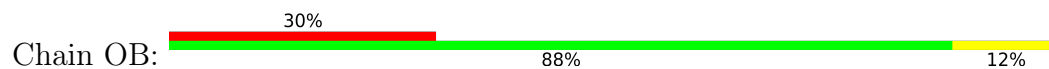


• Molecule 6: Phycoerythrin alpha subunit

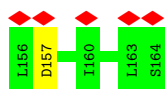
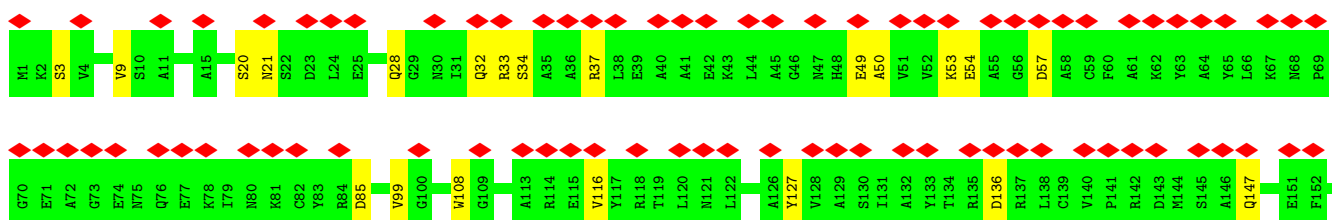
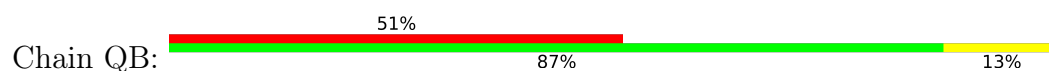




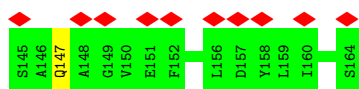
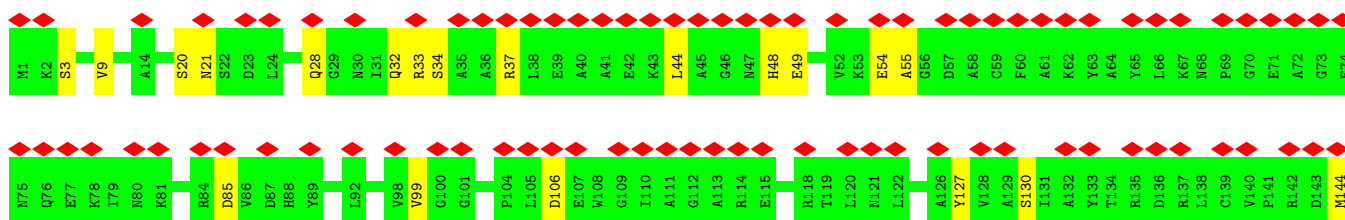
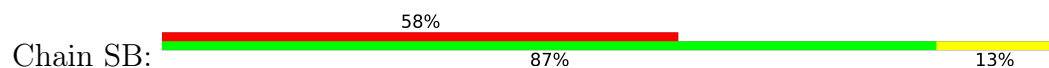
- Molecule 6: Phycoerythrin alpha subunit



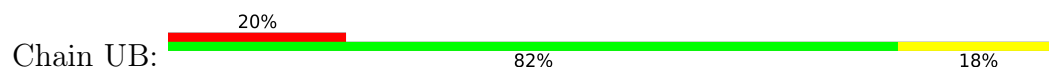
- Molecule 6: Phycoerythrin alpha subunit

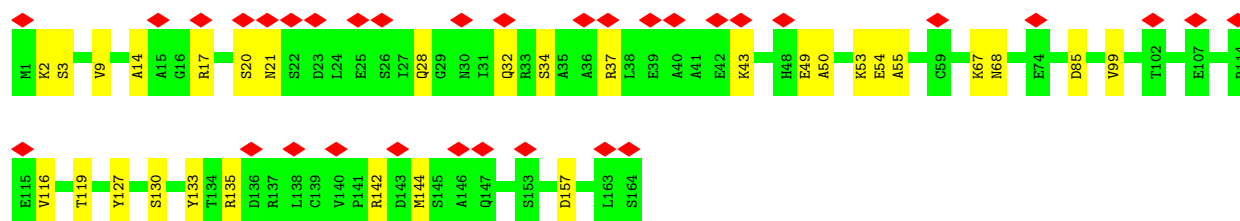


- Molecule 6: Phycoerythrin alpha subunit

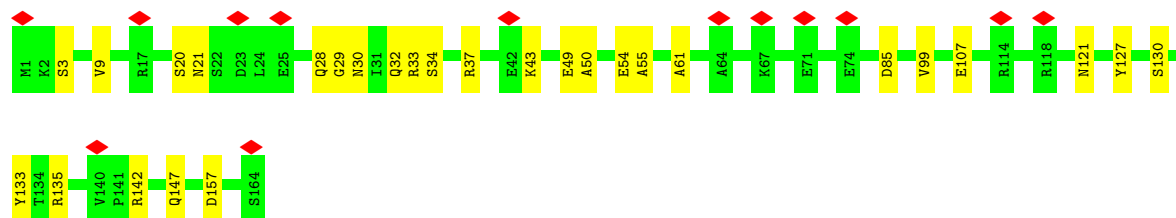
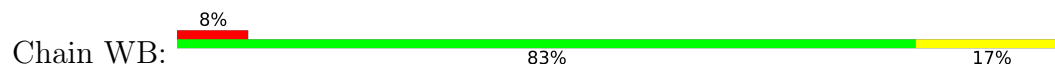


- Molecule 6: Phycoerythrin alpha subunit

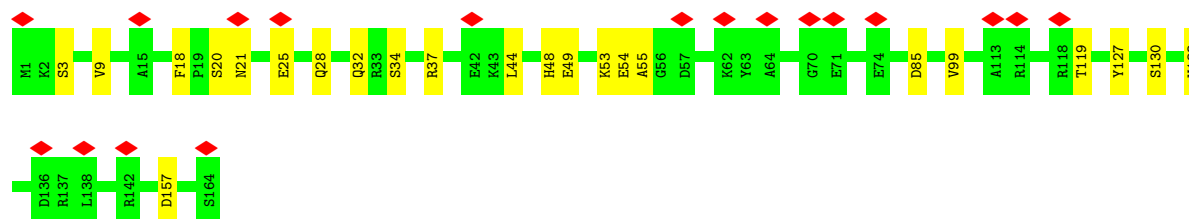
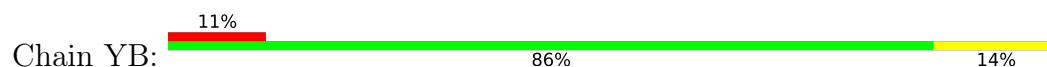




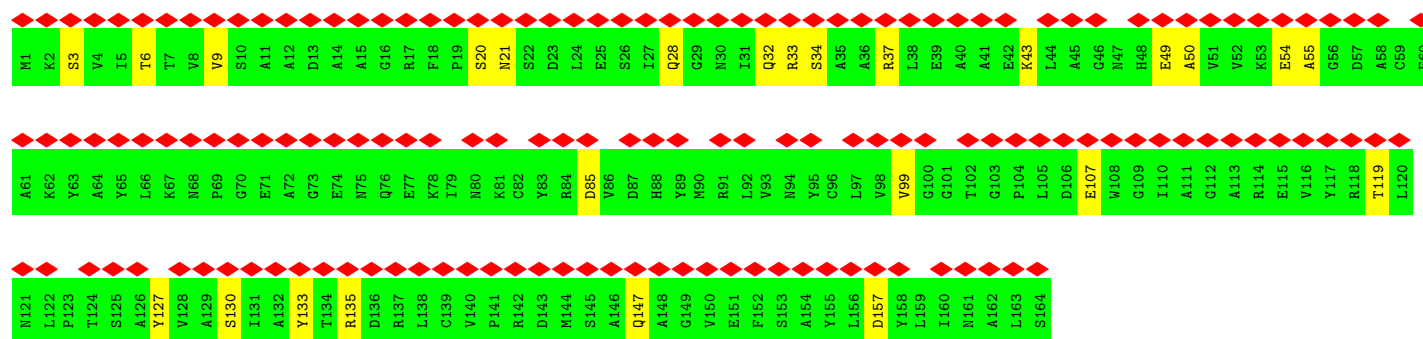
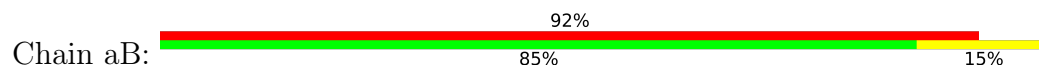
• Molecule 6: Phycoerythrin alpha subunit



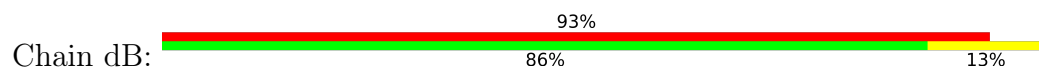
• Molecule 6: Phycoerythrin alpha subunit



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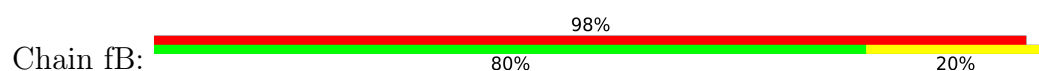


• Molecule 6: Phycoerythrin alpha subunit

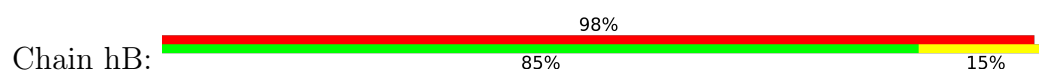




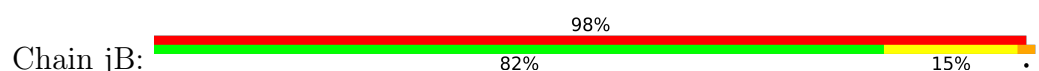
• Molecule 6: Phycoerythrin alpha subunit

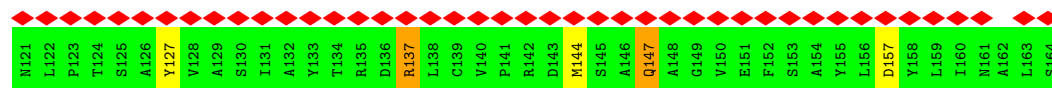


• Molecule 6: Phycoerythrin alpha subunit

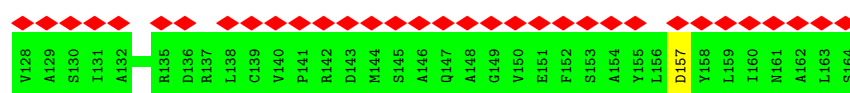
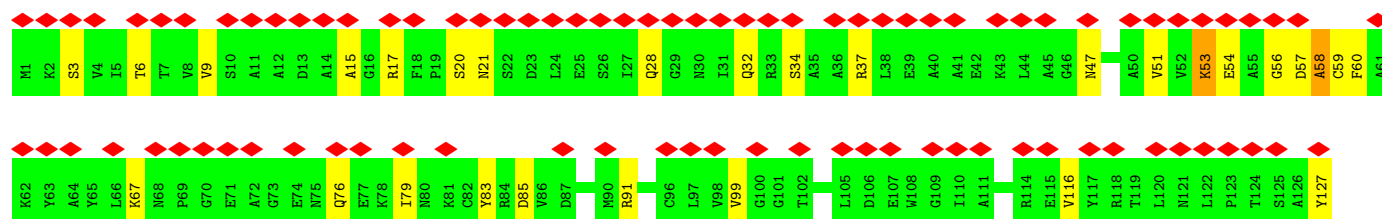
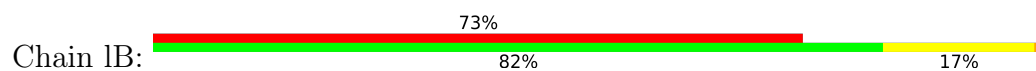


• Molecule 6: Phycoerythrin alpha subunit

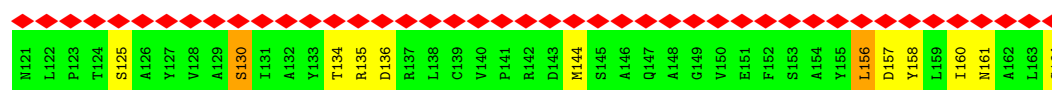
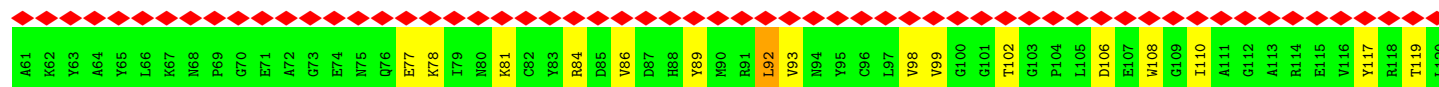
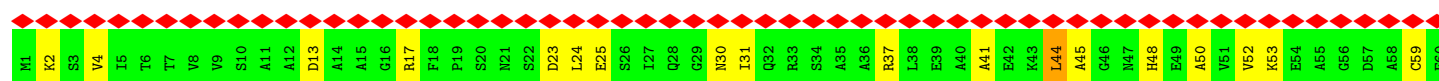
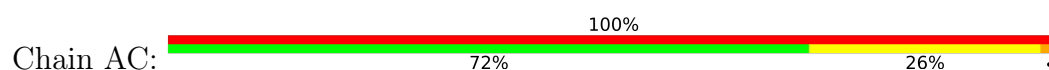




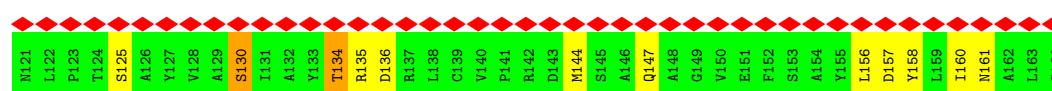
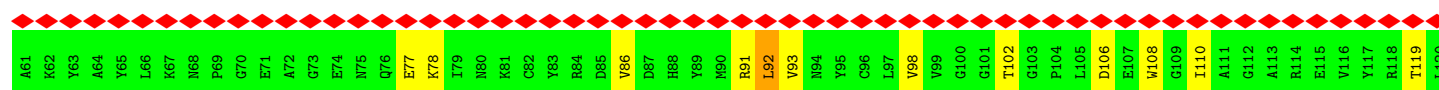
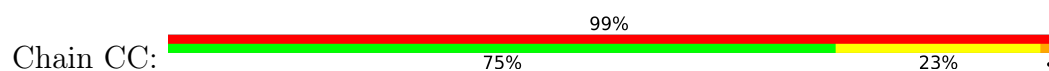
• Molecule 6: Phycoerythrin alpha subunit



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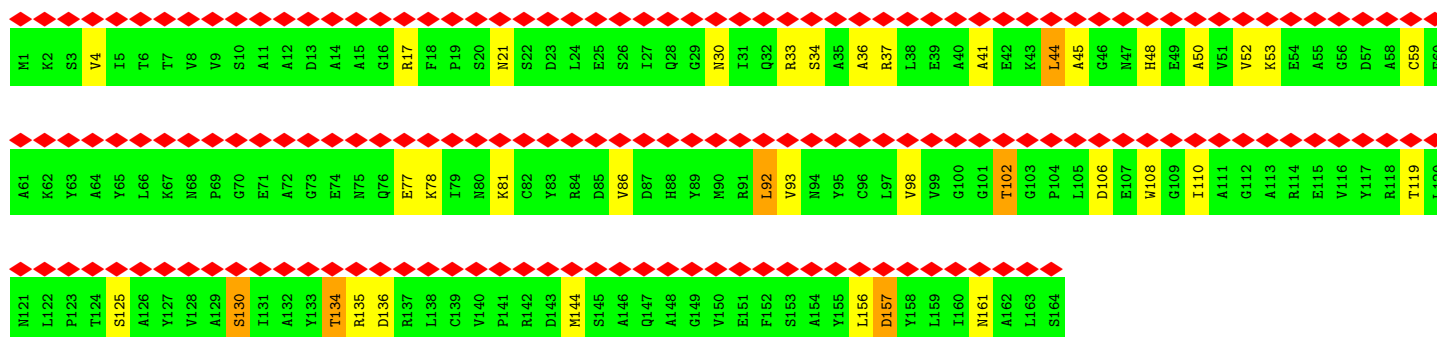


• Molecule 6: Phycoerythrin alpha subunit

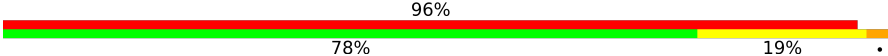


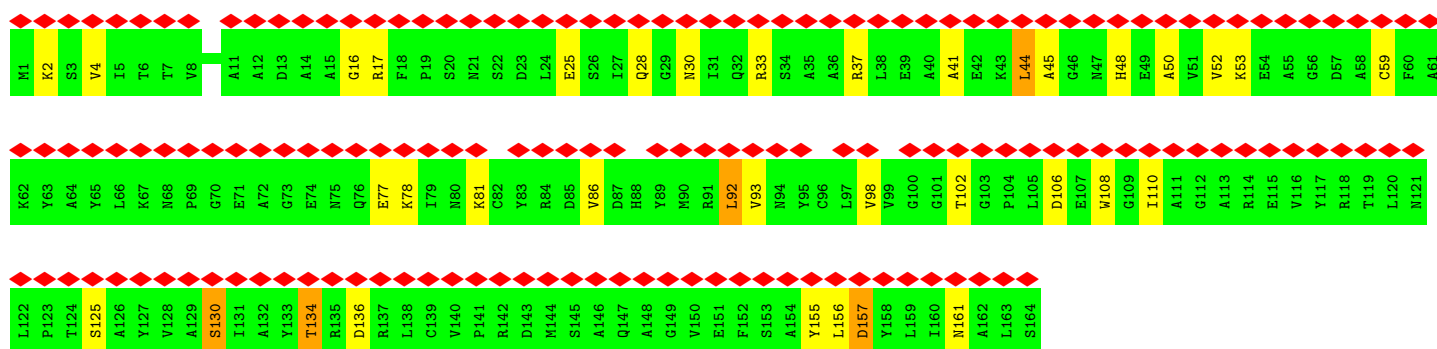
• Molecule 6: Phycoerythrin alpha subunit

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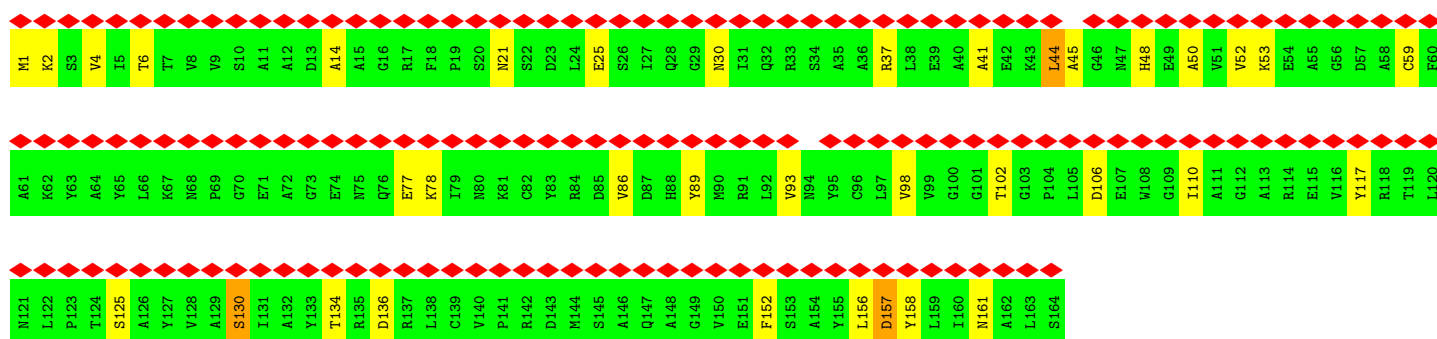
• Molecule 6: Phycoerythrin alpha subunit

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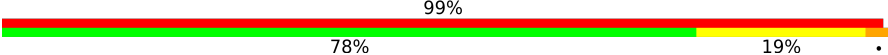


• Molecule 6: Phycoerythrin alpha subunit

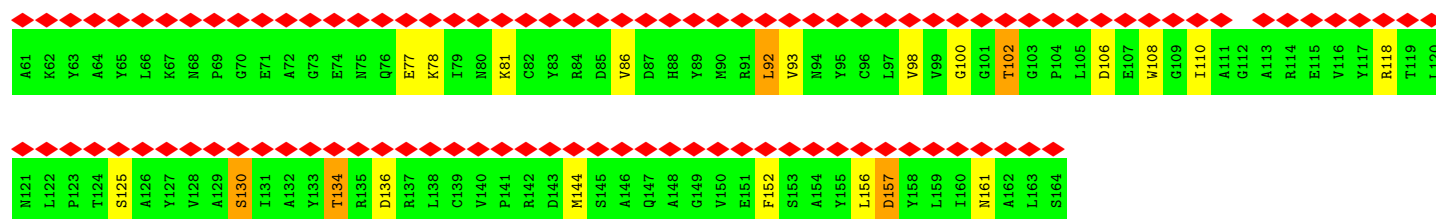
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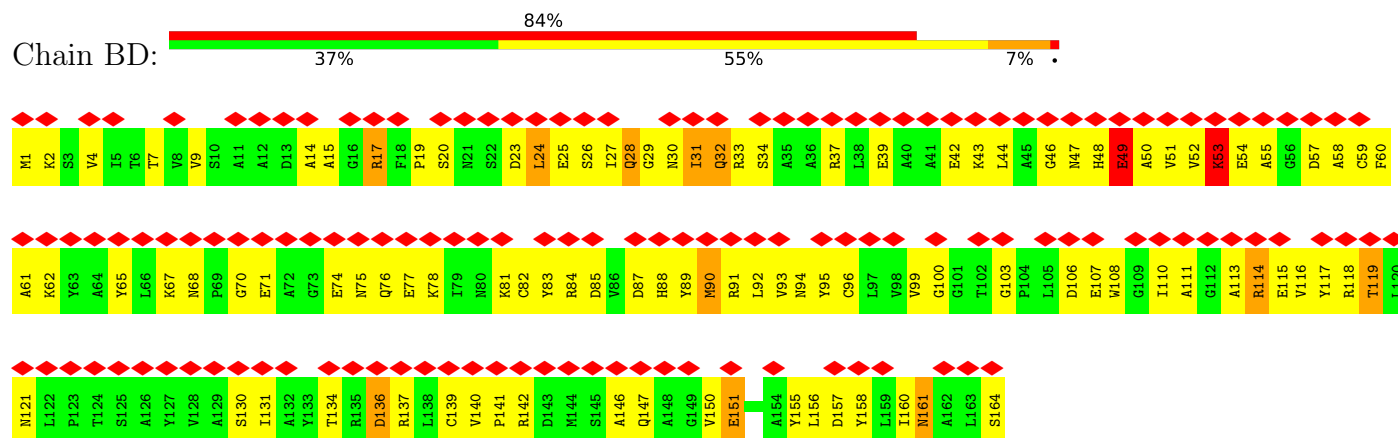
• Molecule 6: Phycoerythrin alpha subunit

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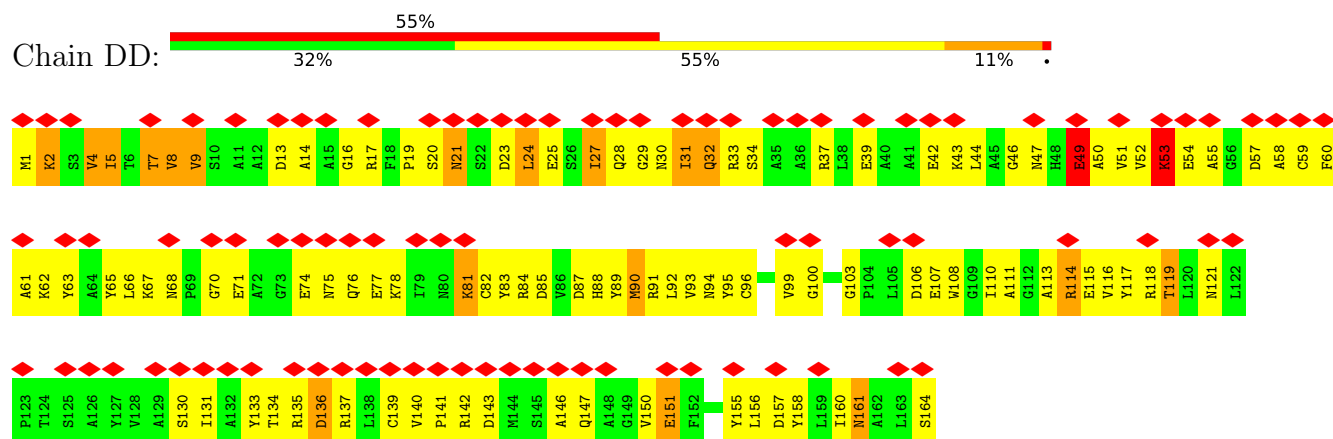




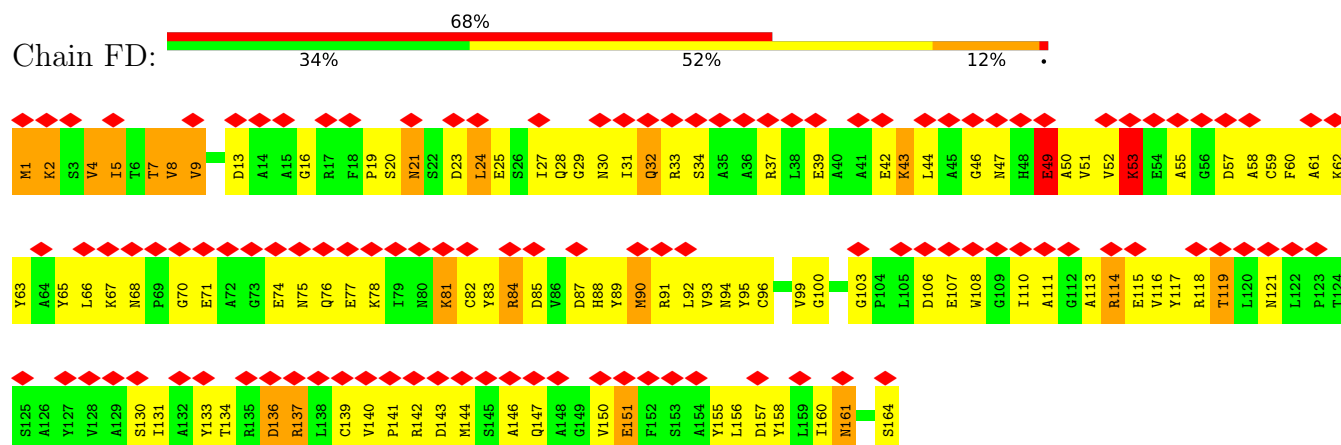
• Molecule 6: Phycoerythrin alpha subunit



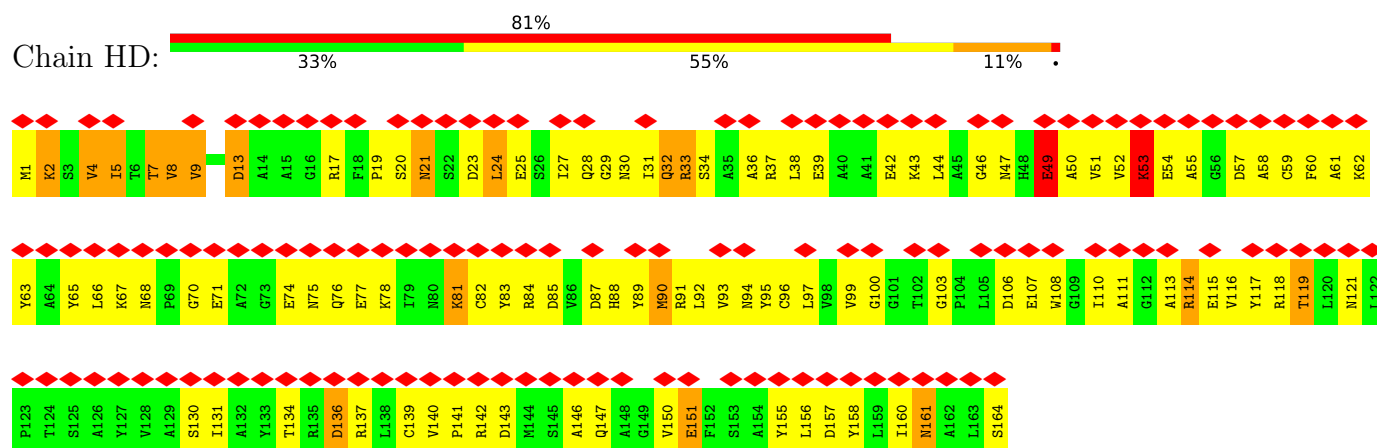
• Molecule 6: Phycoerythrin alpha subunit



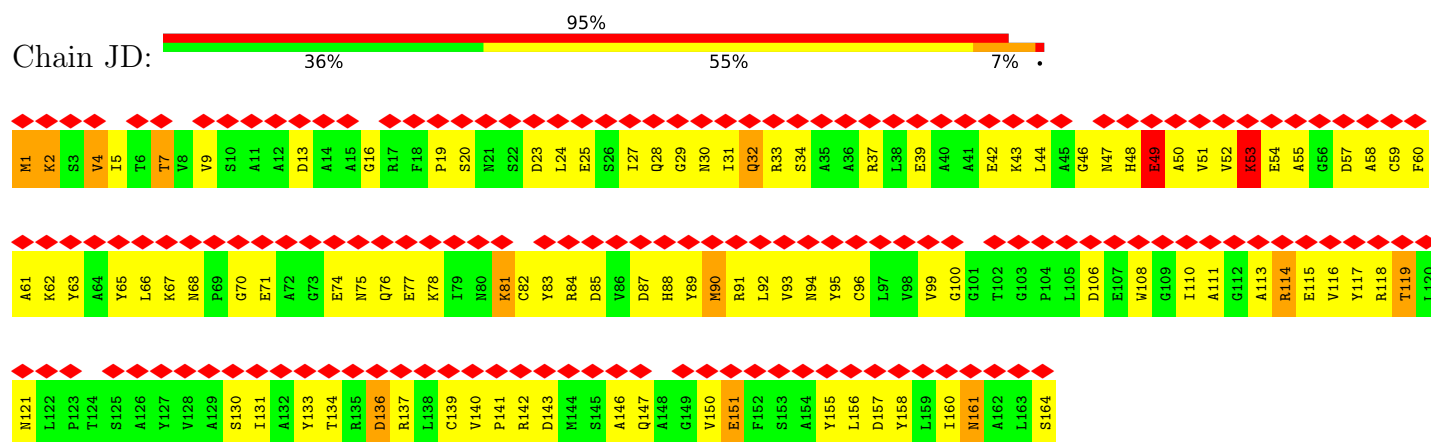
• Molecule 6: Phycoerythrin alpha subunit



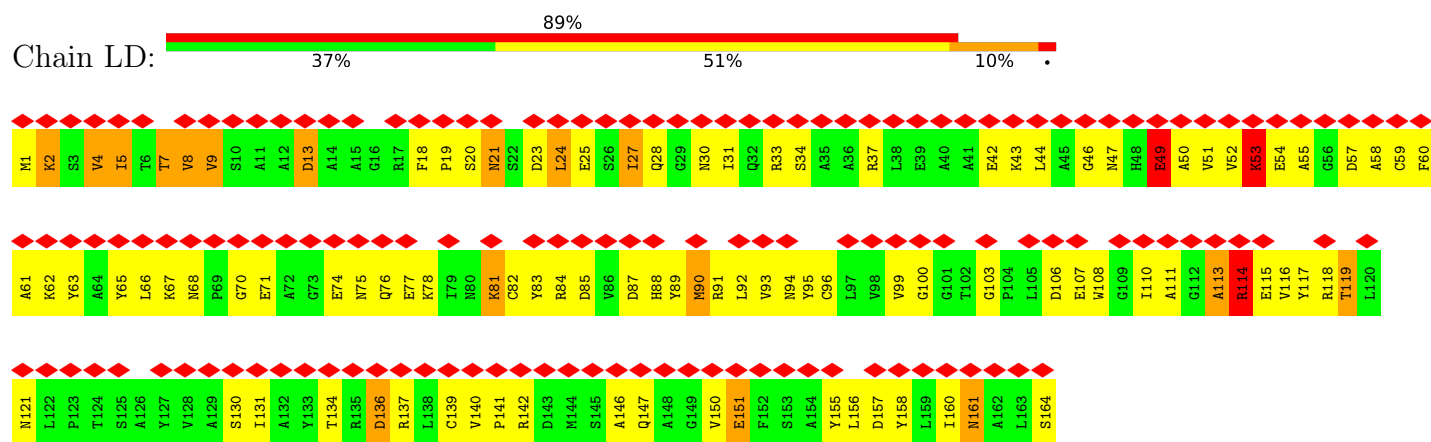
● Molecule 6: Phycoerythrin alpha subunit



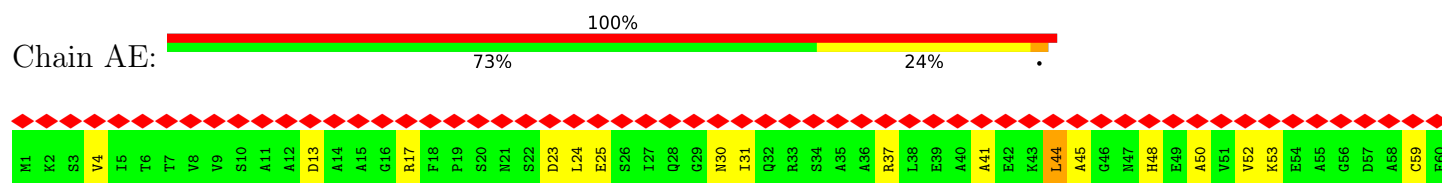
● Molecule 6: Phycoerythrin alpha subunit

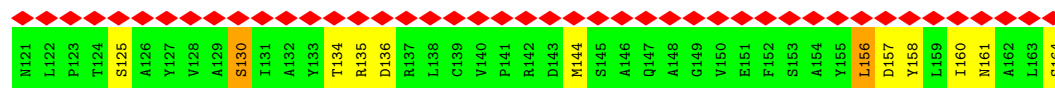
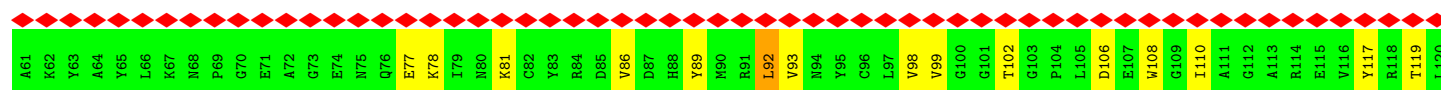


● Molecule 6: Phycoerythrin alpha subunit

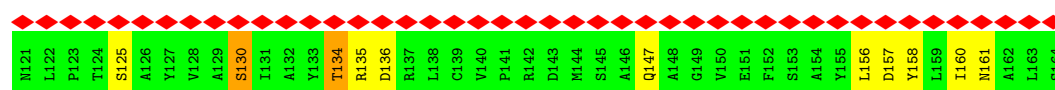
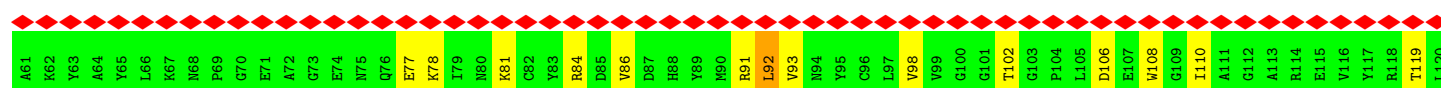
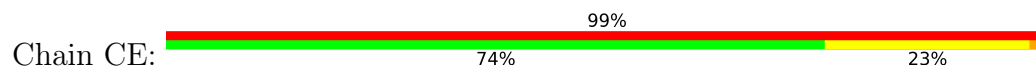


● Molecule 6: Phycoerythrin alpha subunit

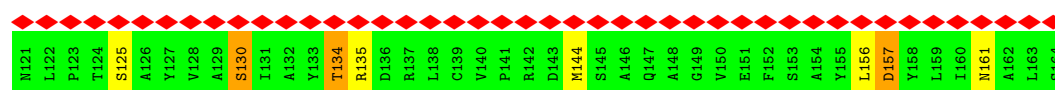
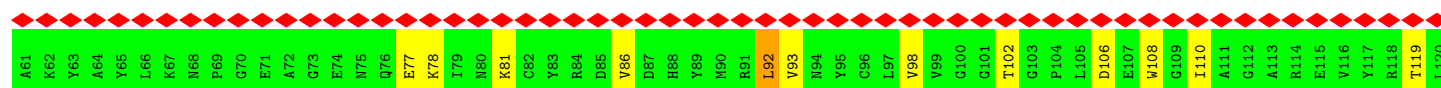
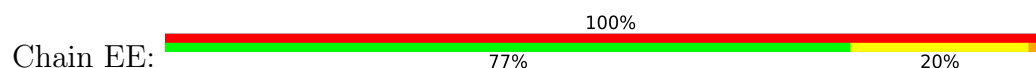




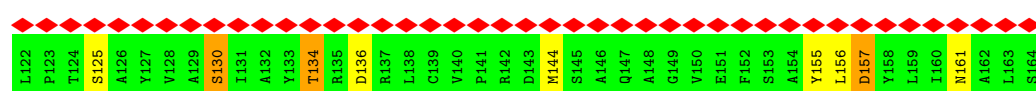
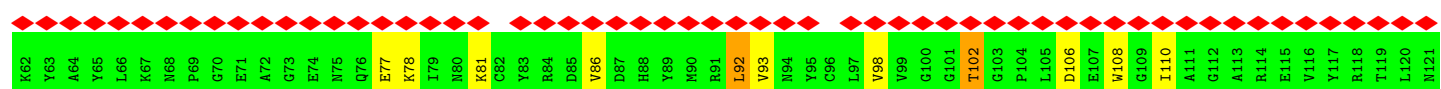
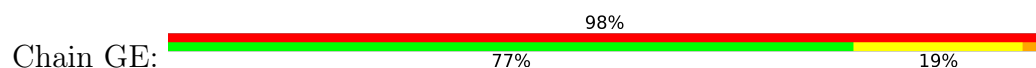
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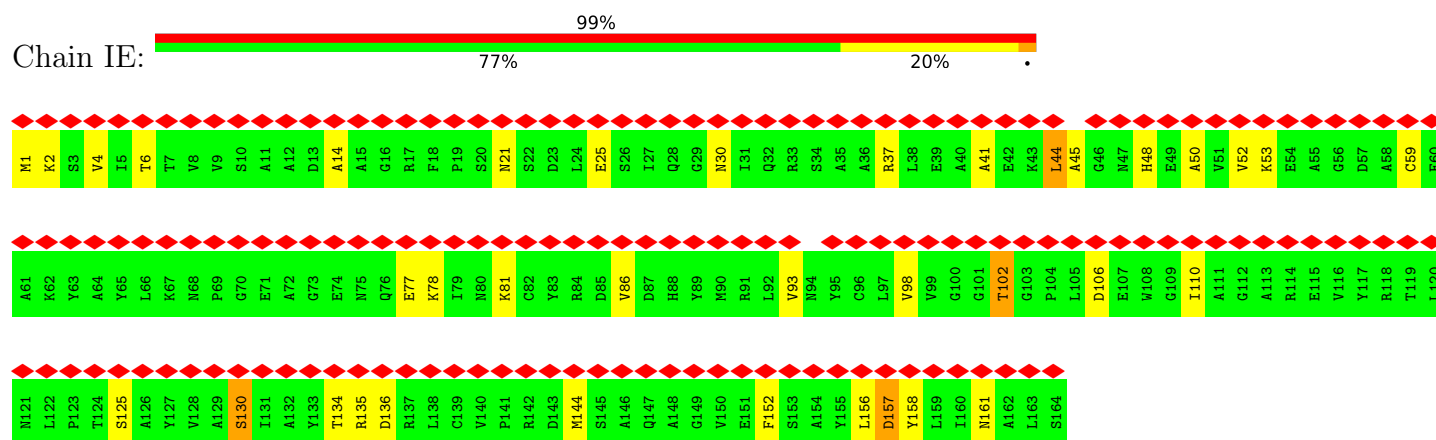
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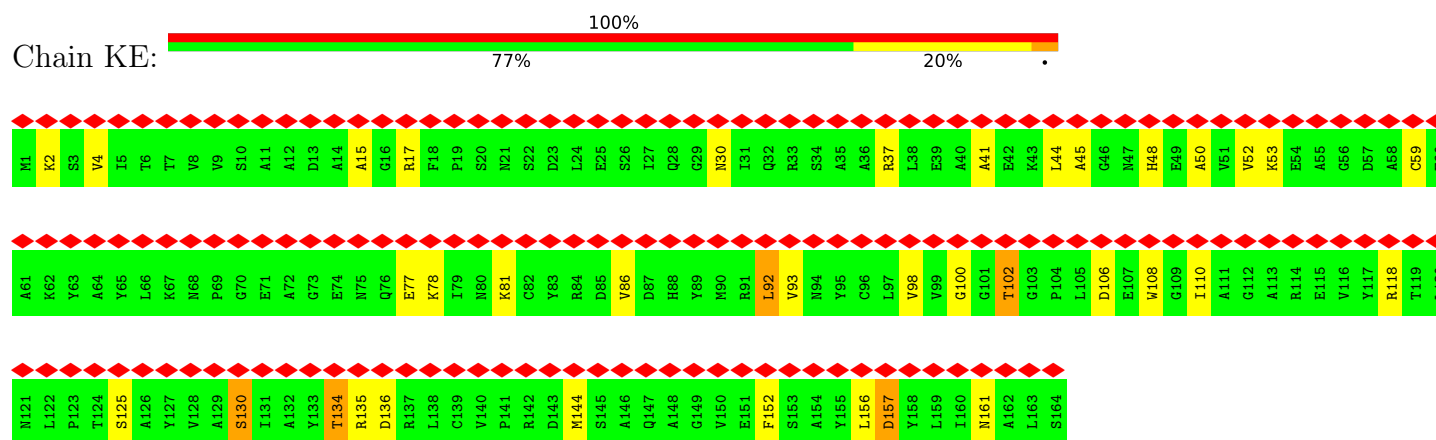
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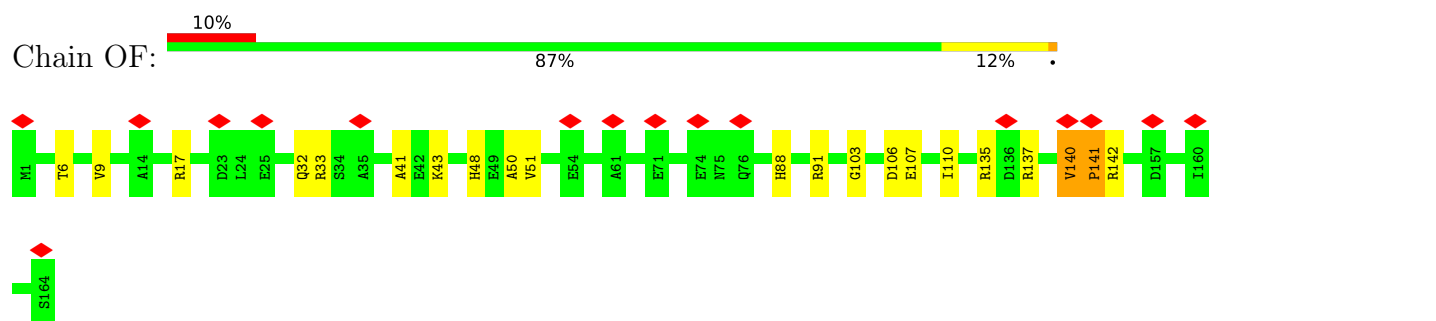
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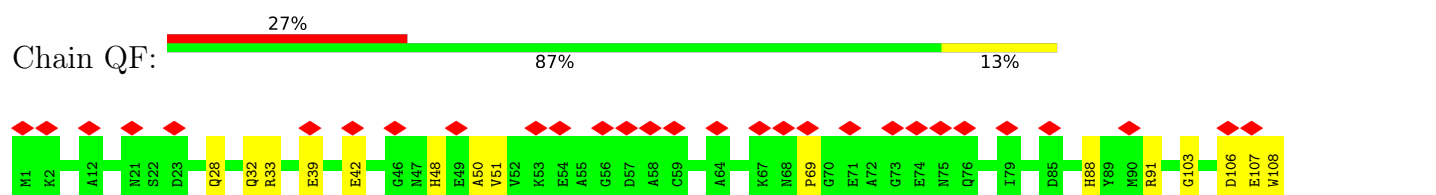
- Molecule 6: Phycoerythrin alpha subunit



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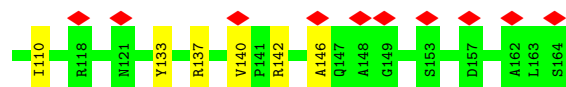
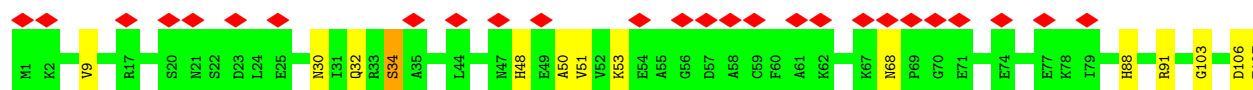
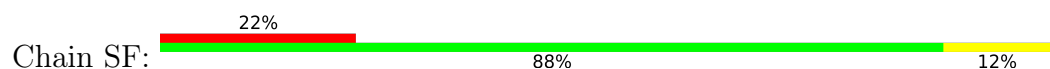


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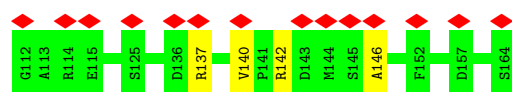
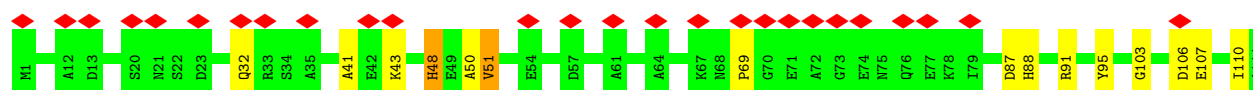
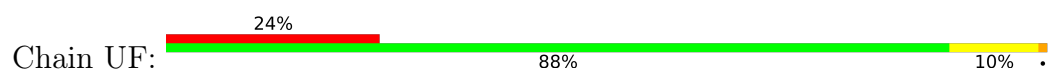




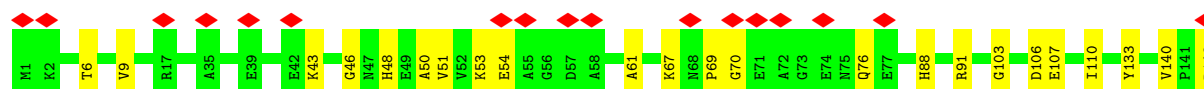
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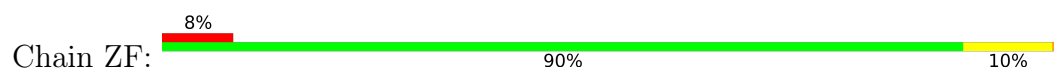
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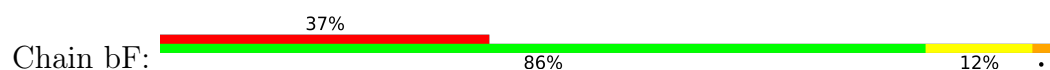
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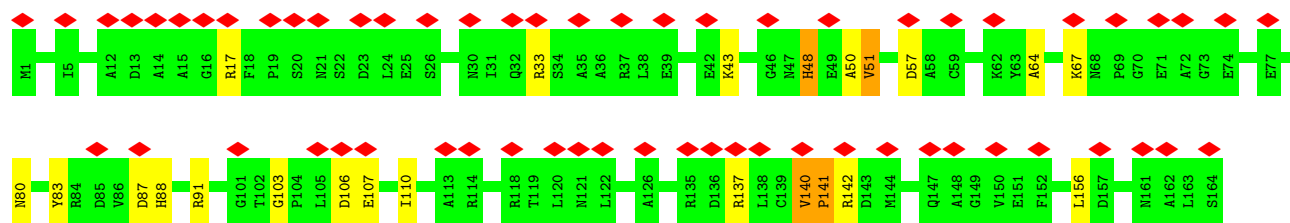


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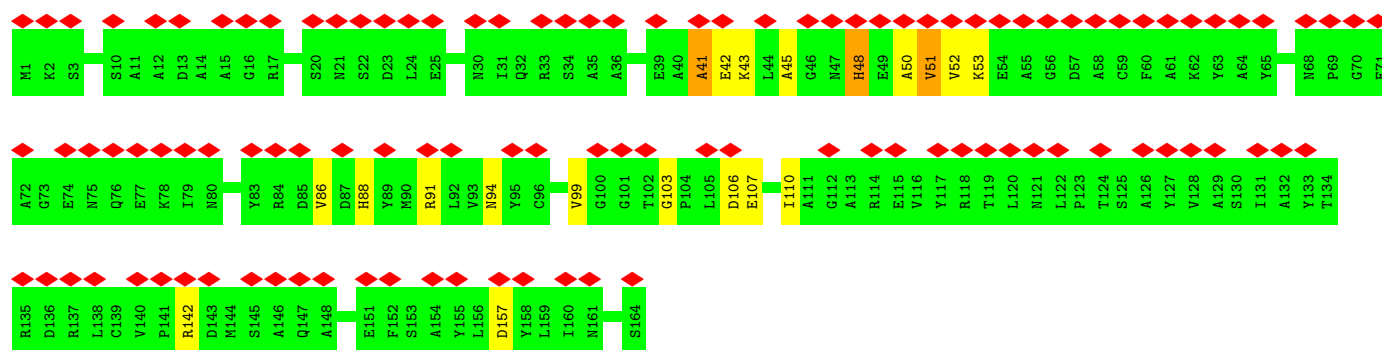
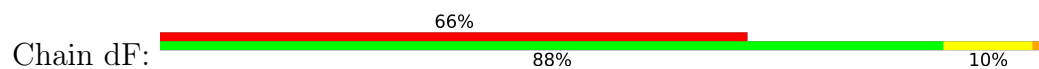


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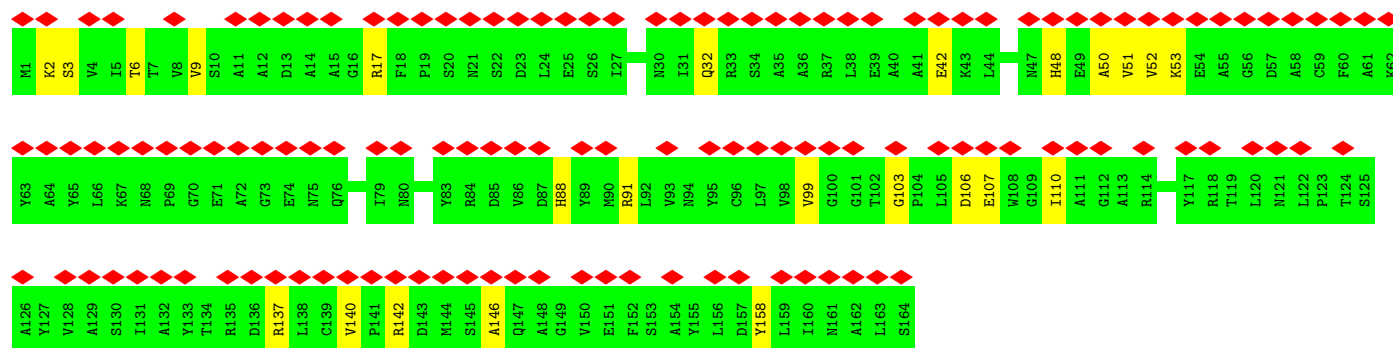
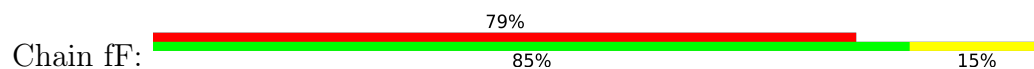




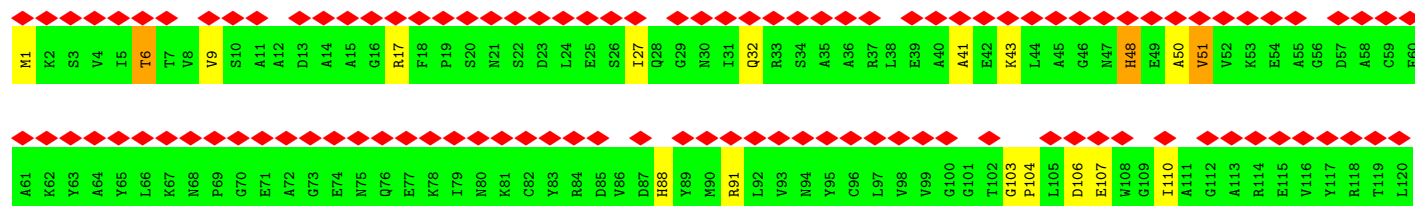
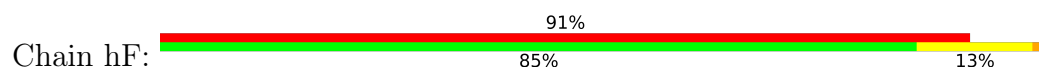
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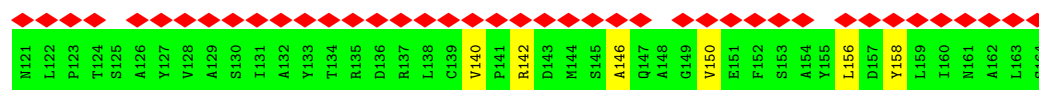


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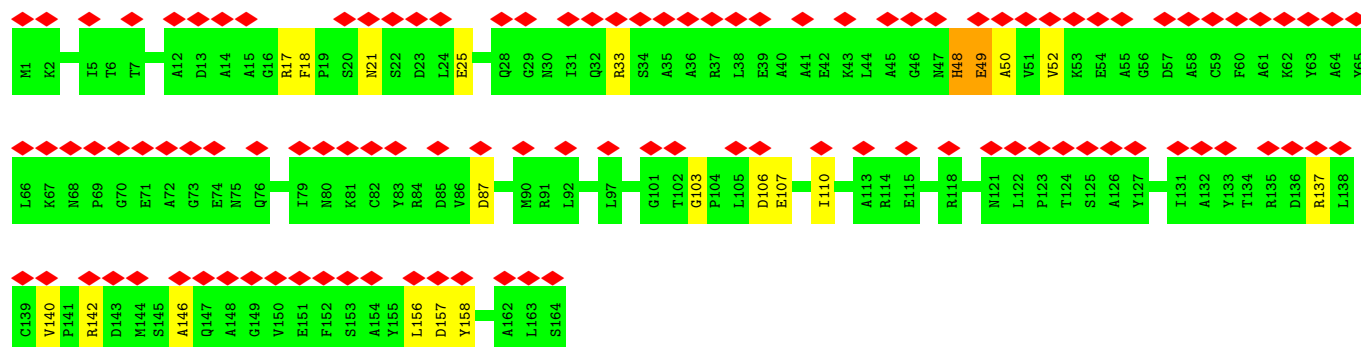
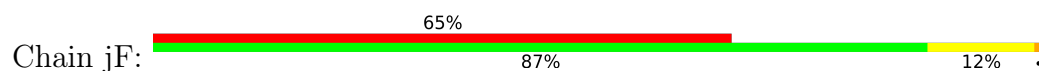


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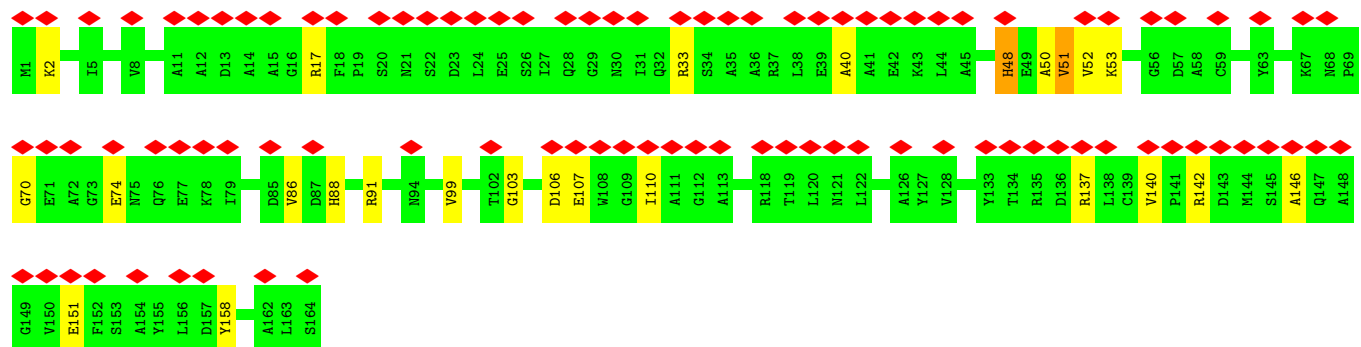
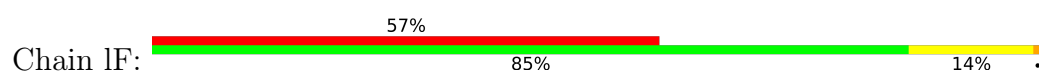




• Molecule 6: Phycoerythrin alpha subunit



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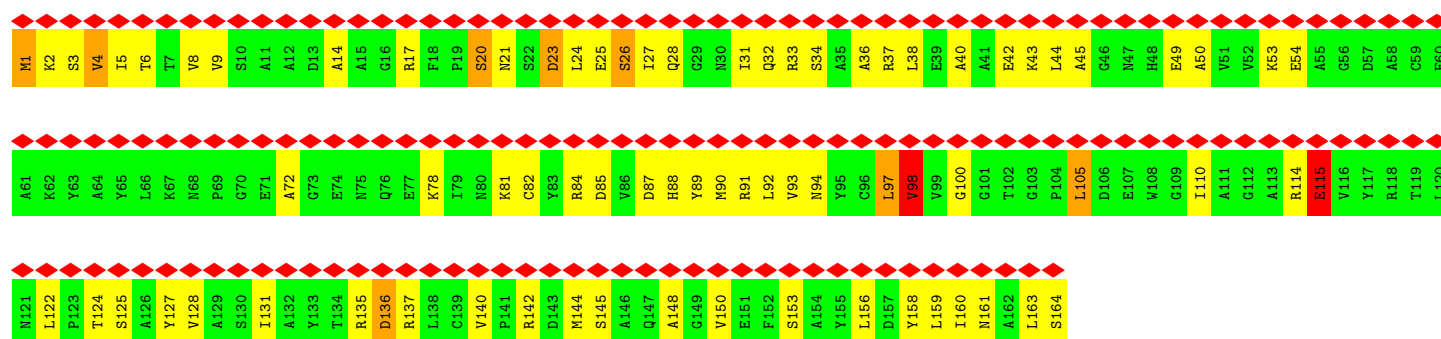
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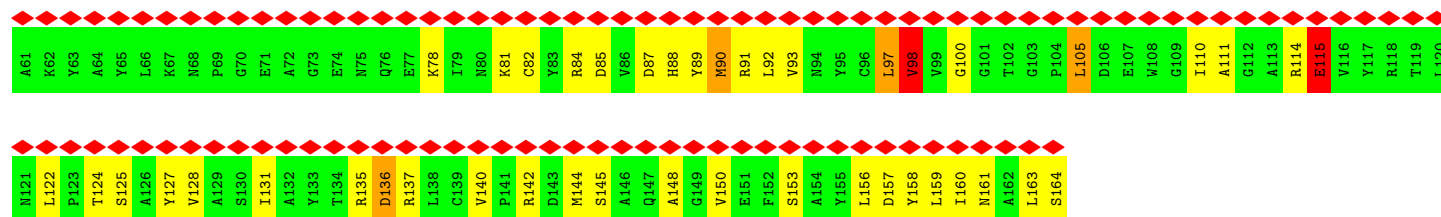


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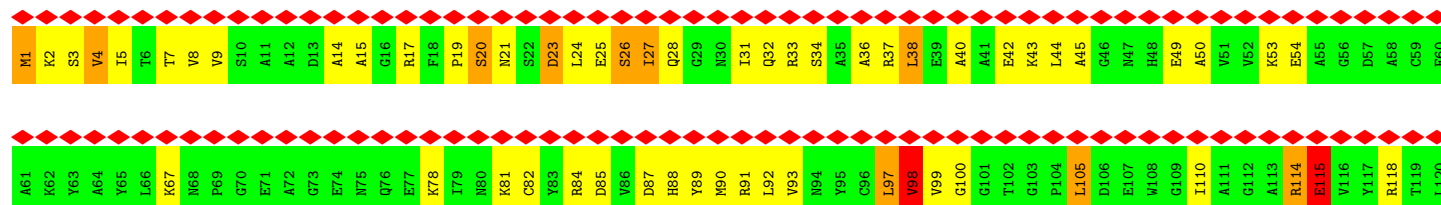


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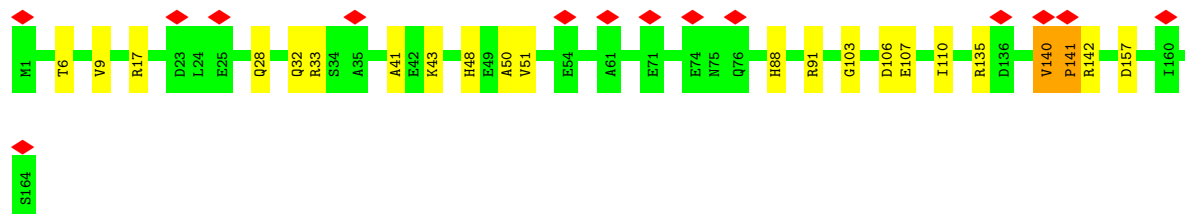
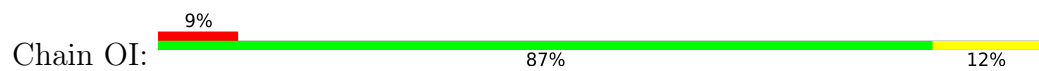




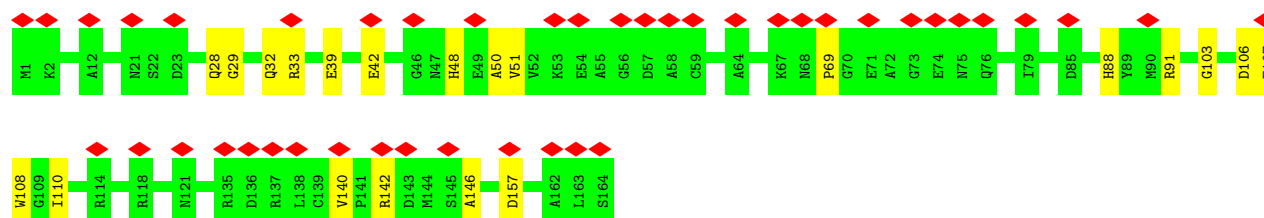
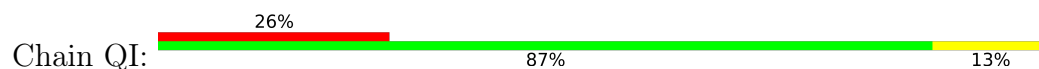
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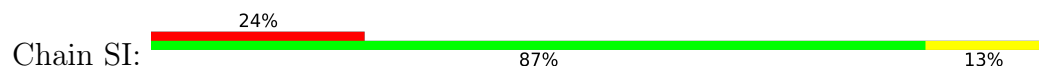
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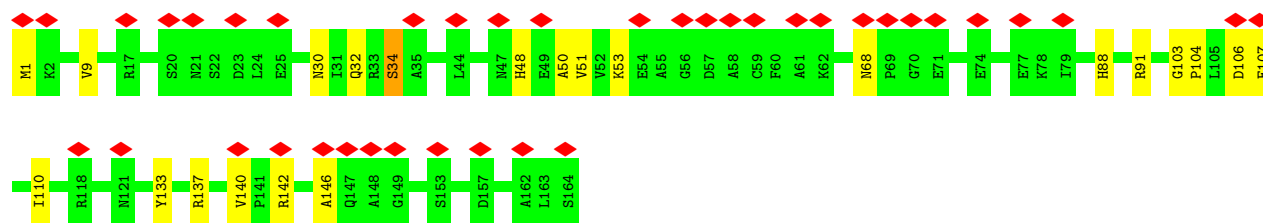


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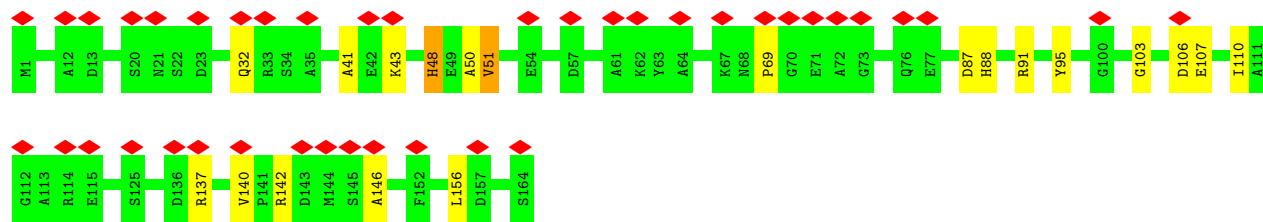
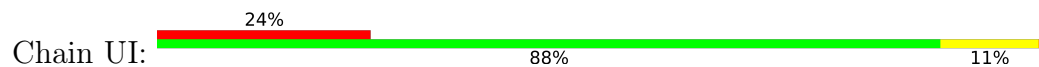


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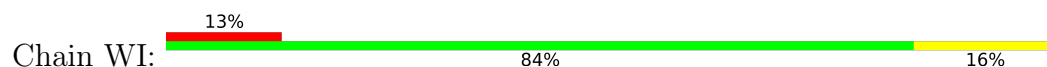




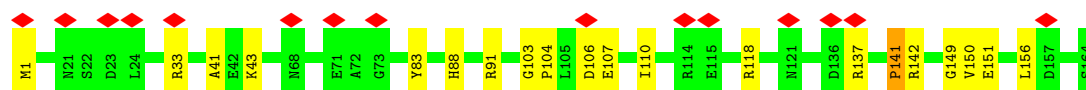
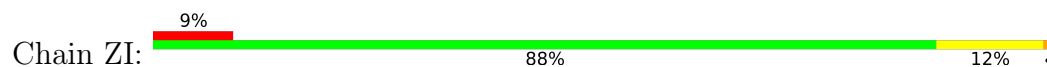
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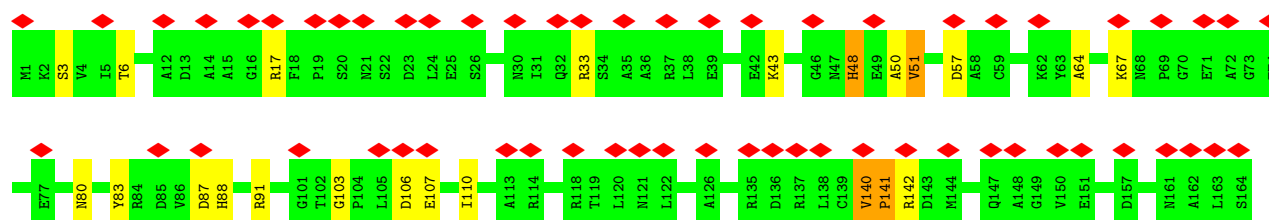
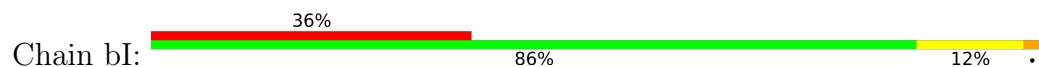
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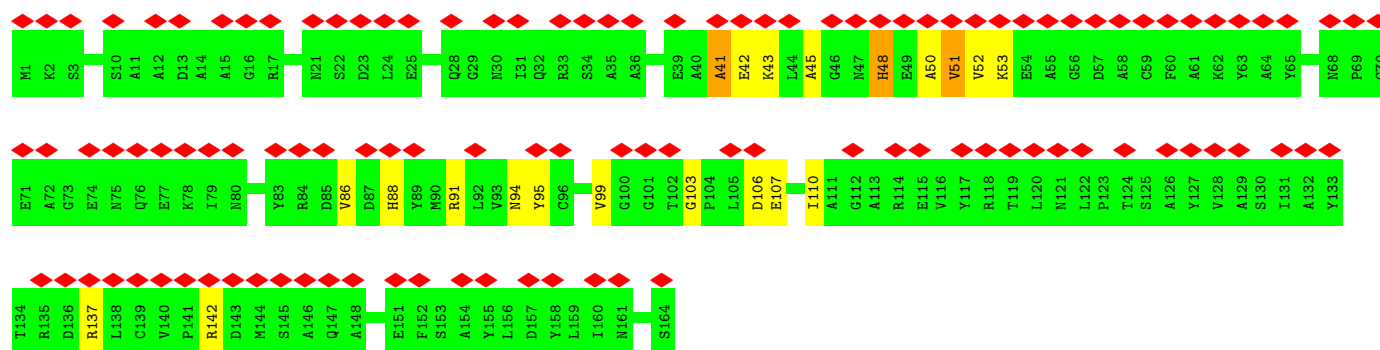
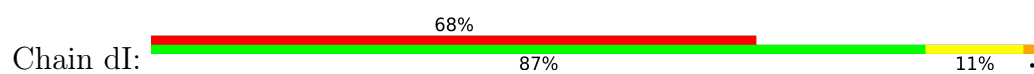
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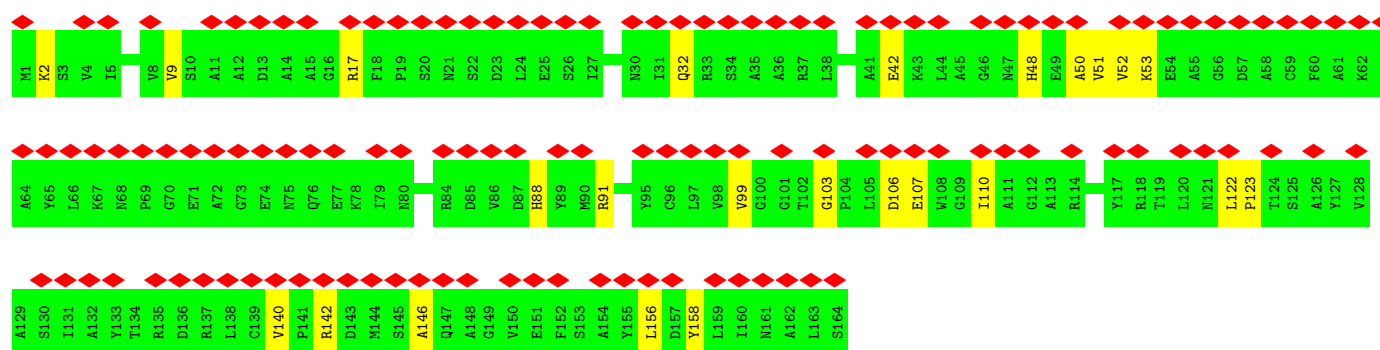
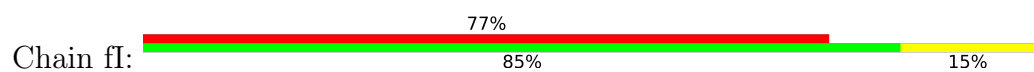
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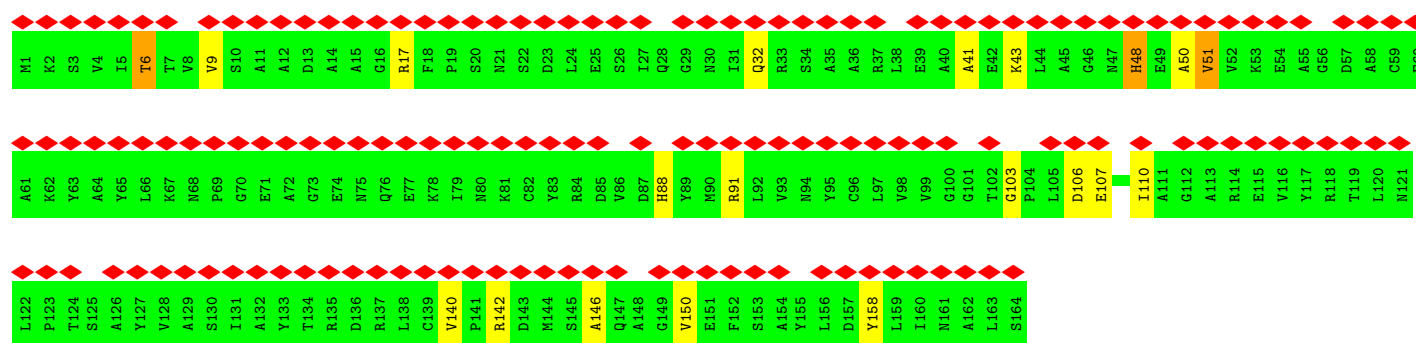
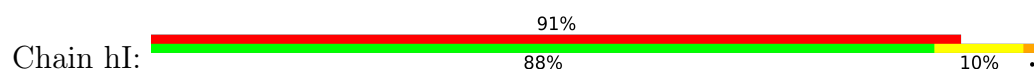
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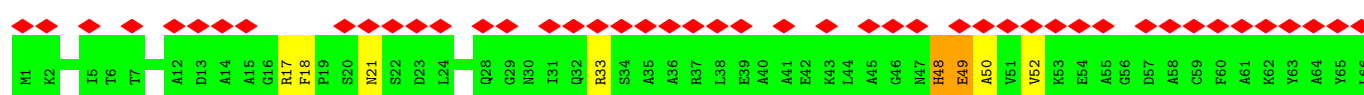
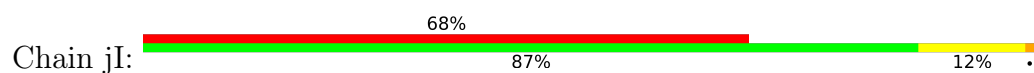
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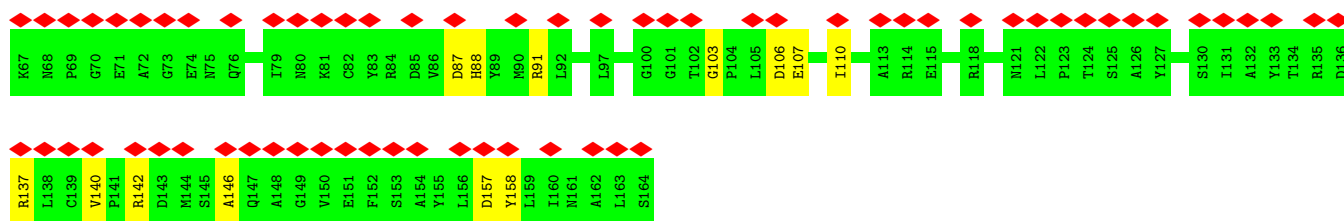


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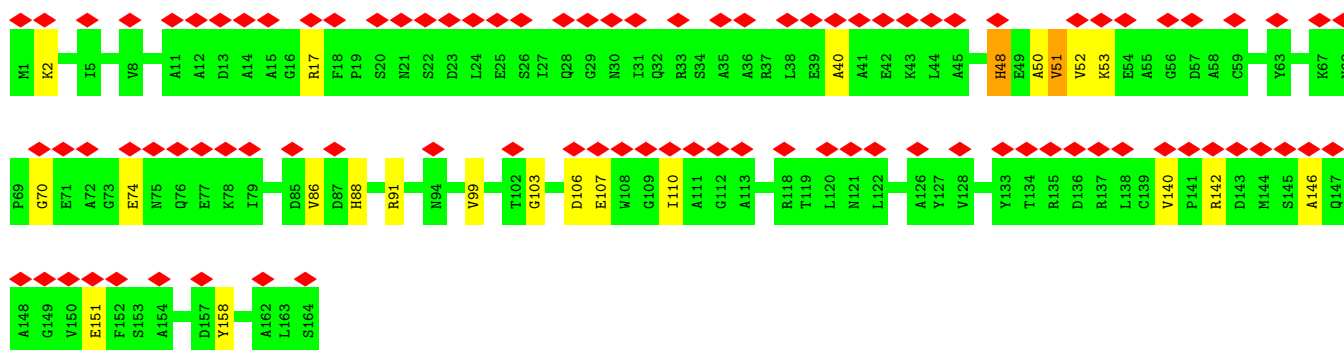
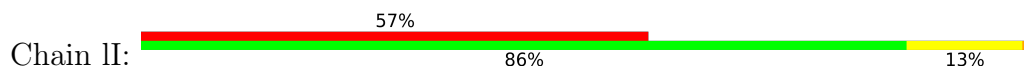


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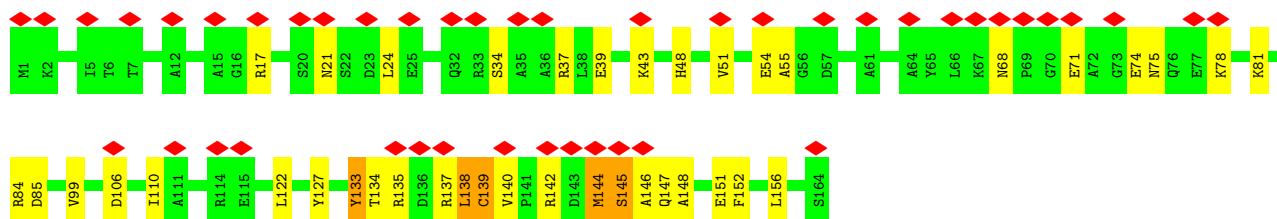
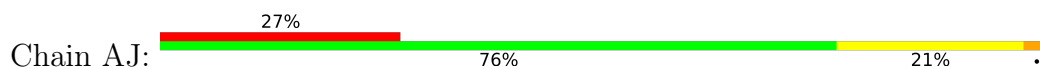




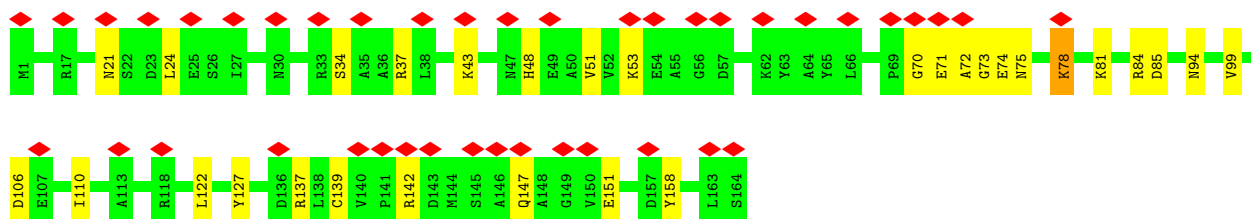
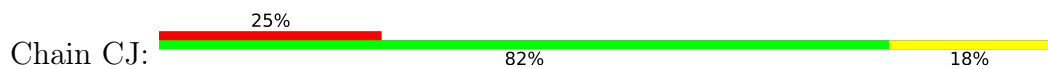
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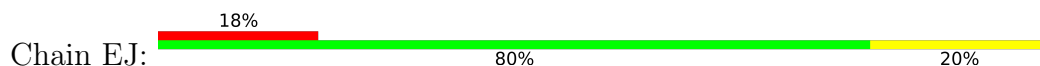
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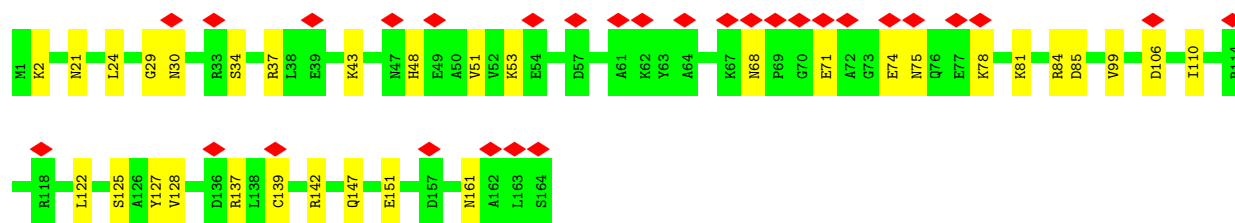


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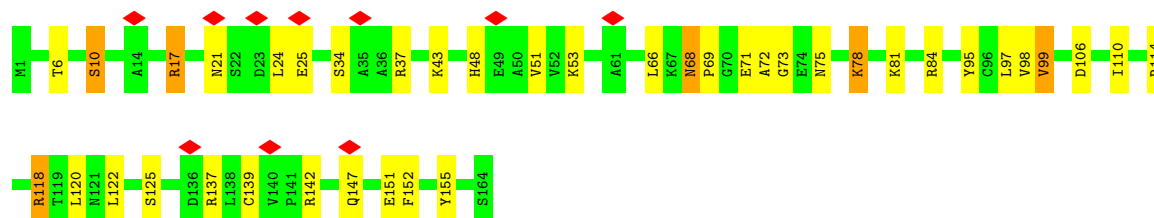
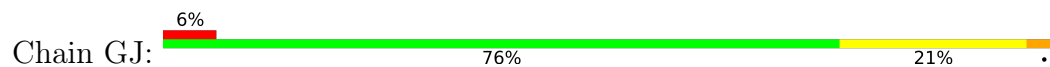


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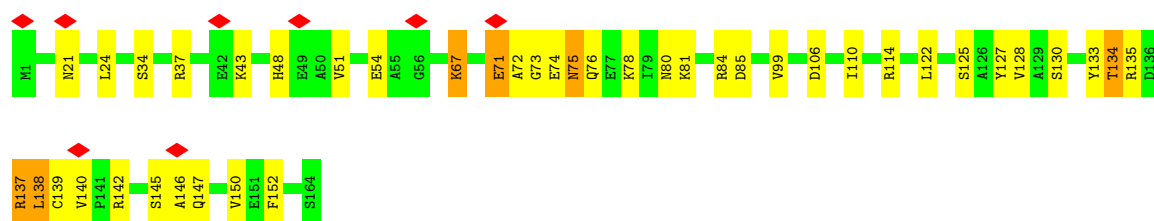
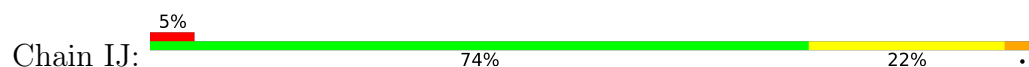




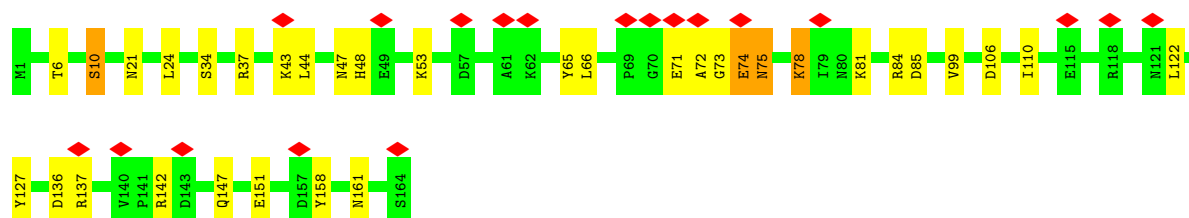
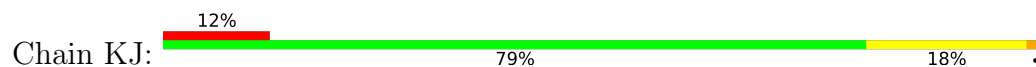
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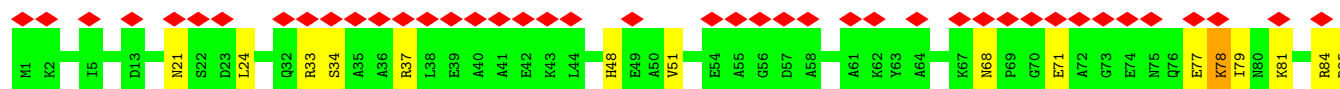
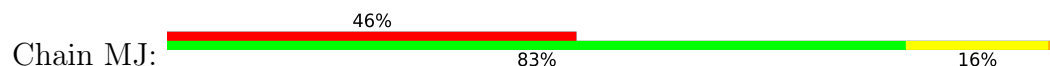
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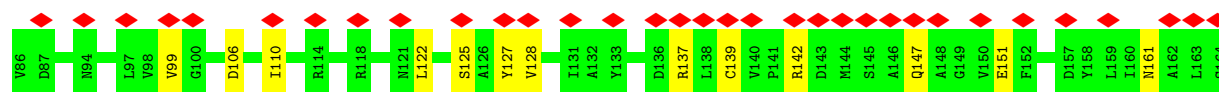


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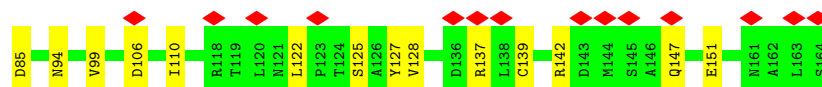
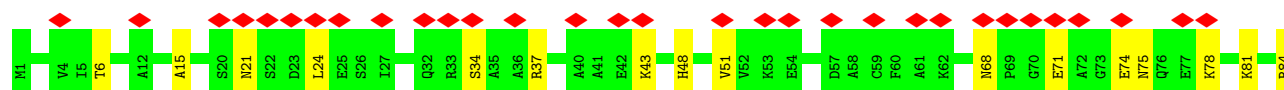
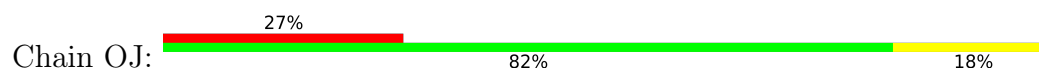


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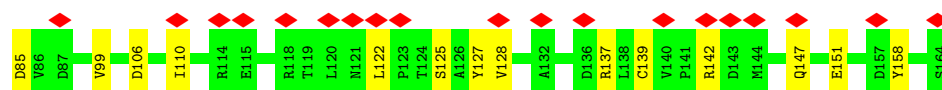
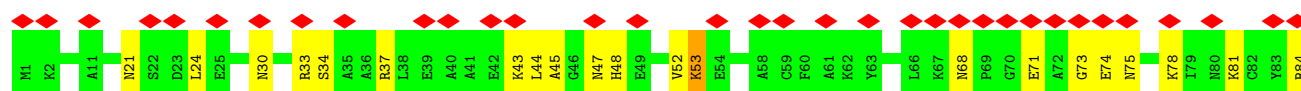
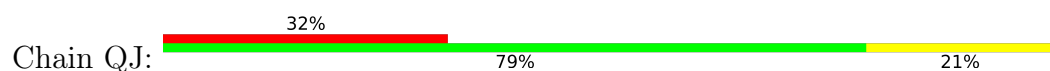




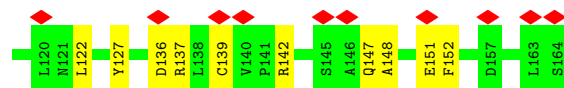
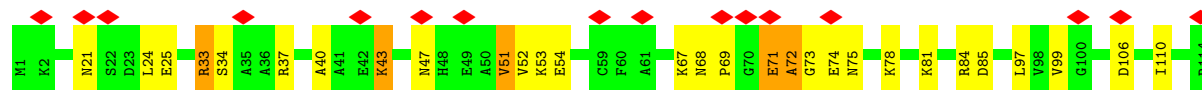
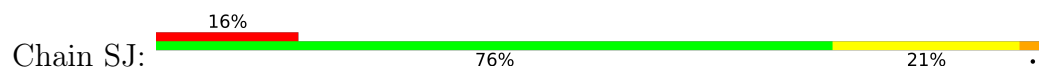
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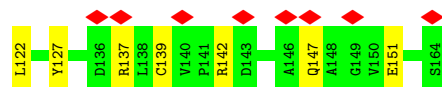
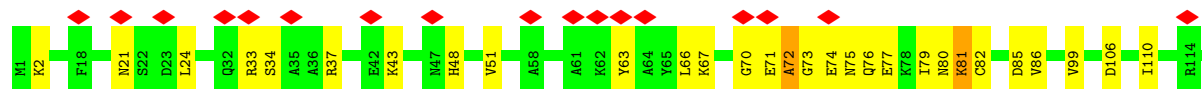
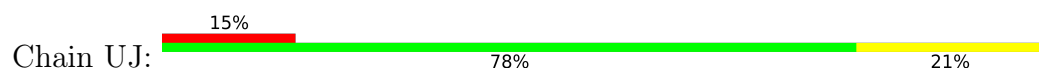
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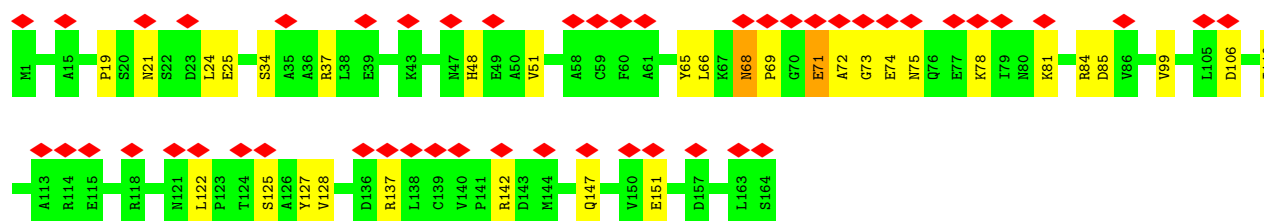
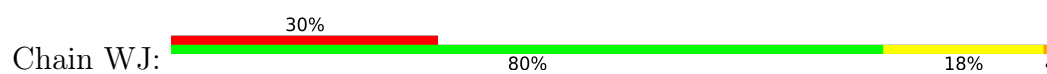
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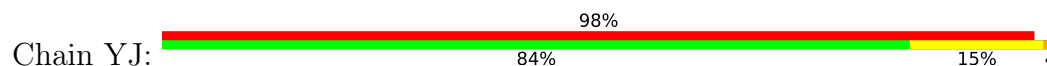
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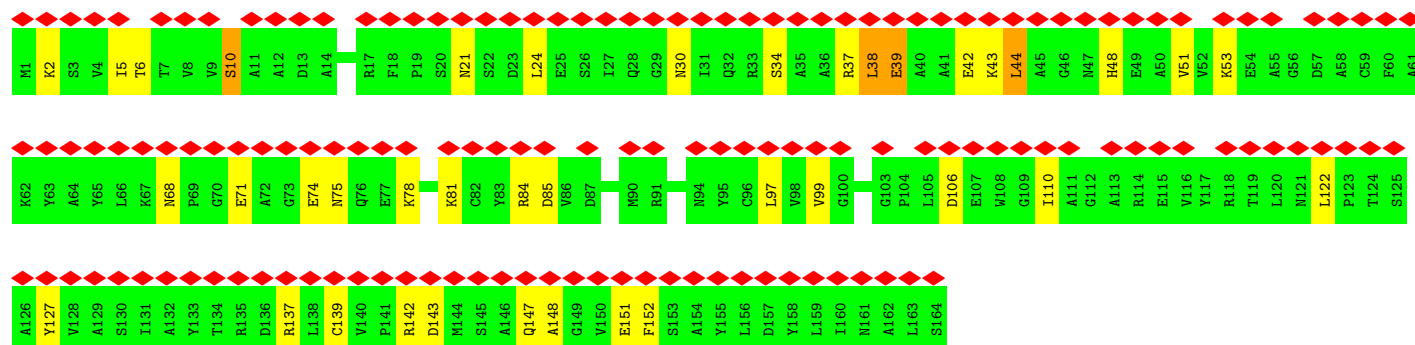
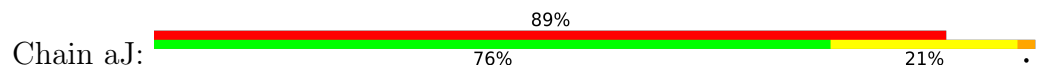
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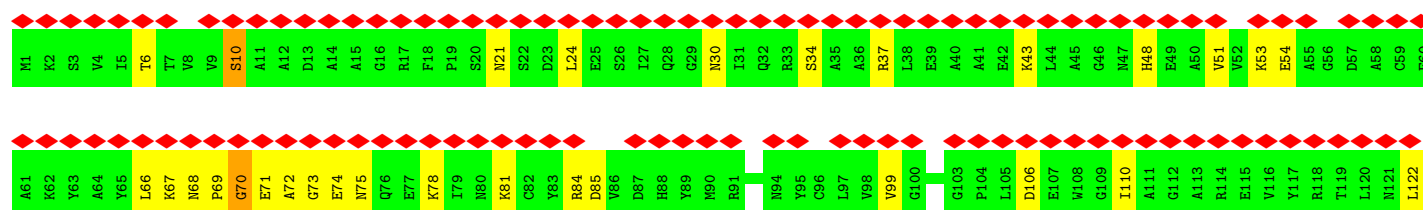
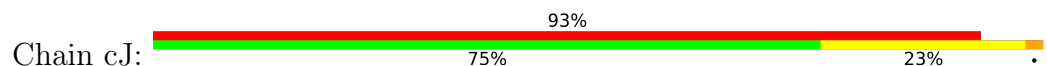
• Molecule 6: Phycoerythrin alpha subunit



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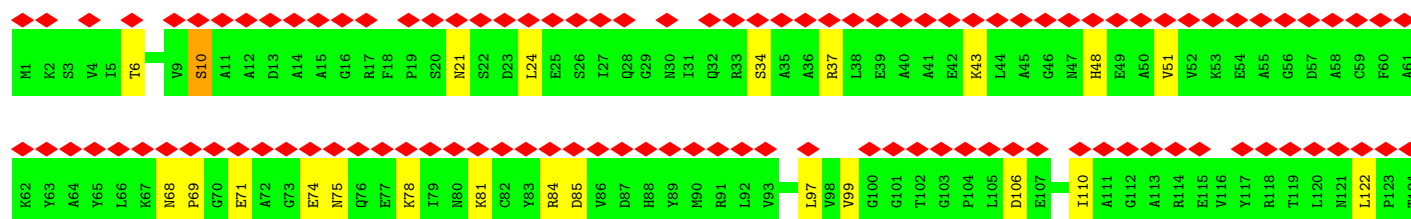
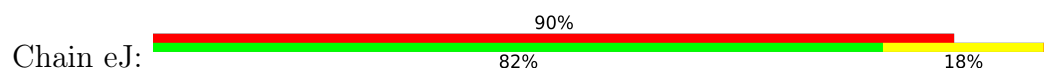


• Molecule 6: Phycoerythrin alpha subunit

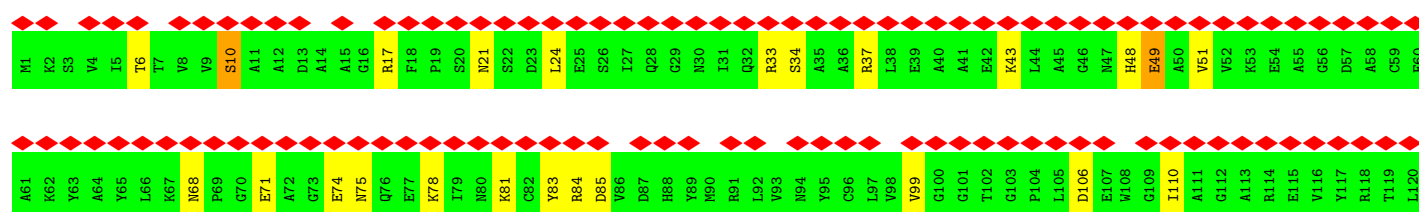
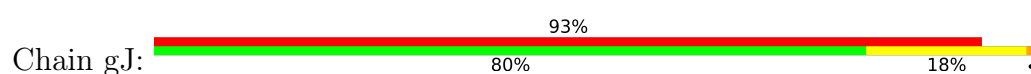




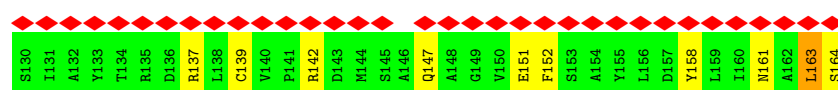
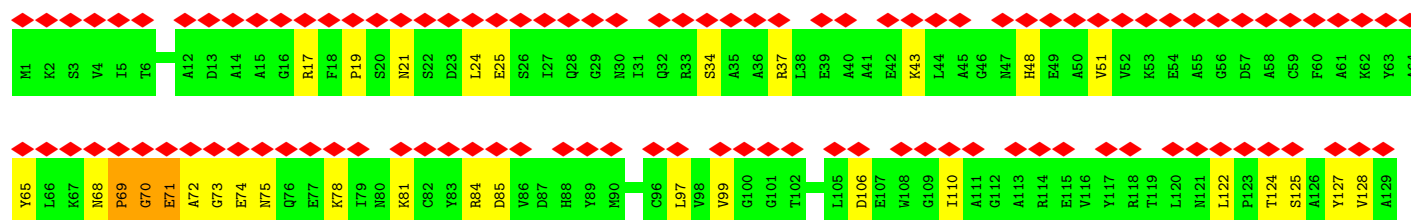
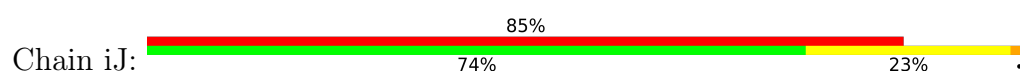
• Molecule 6: Phycoerythrin alpha subunit



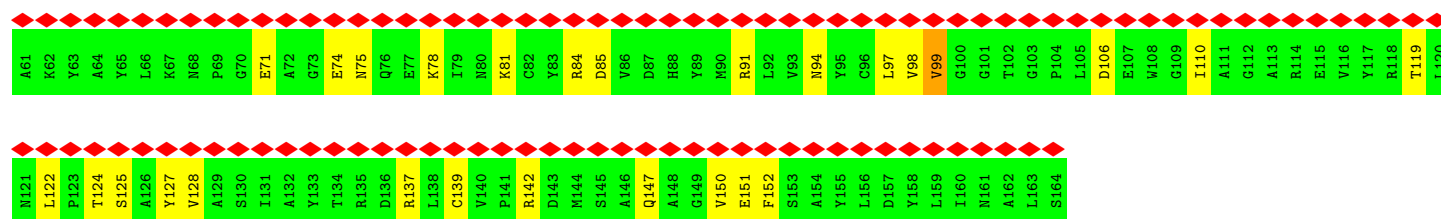
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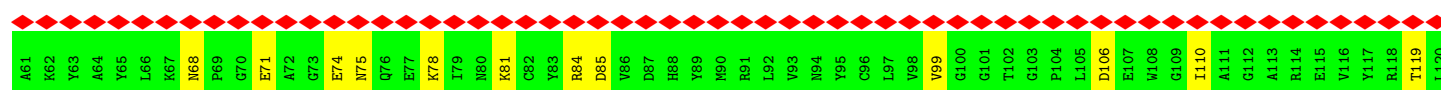
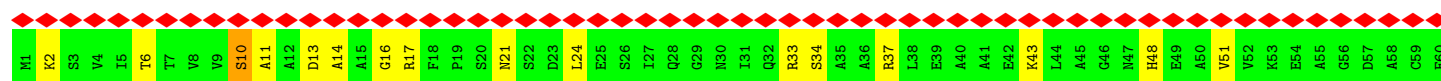
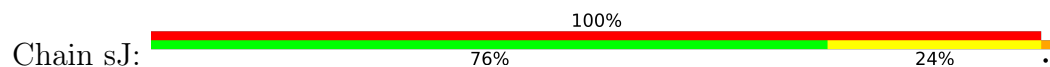
• Molecule 6: Phycoerythrin alpha subunit



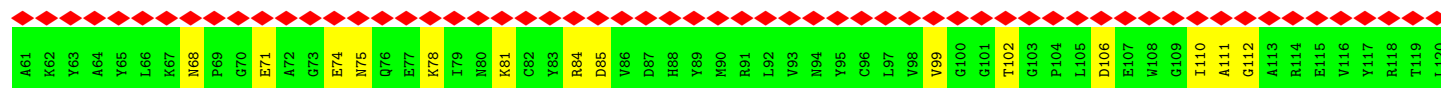
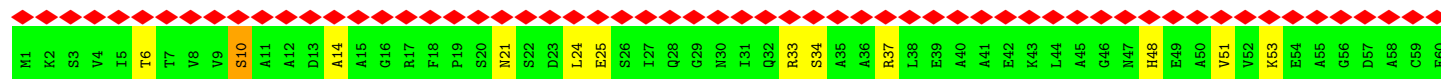
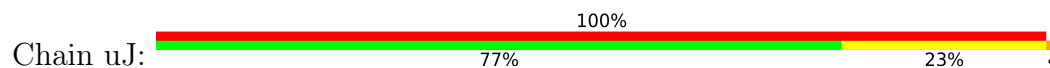
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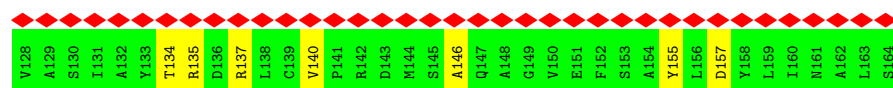
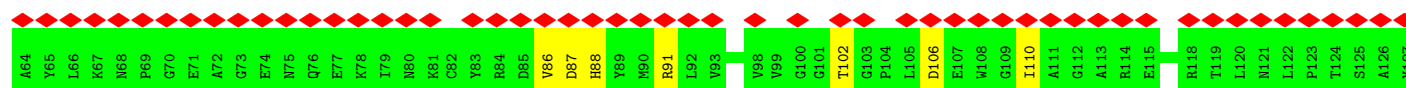
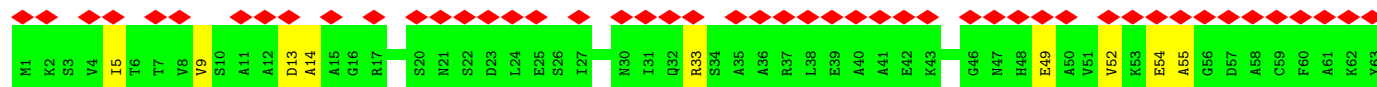
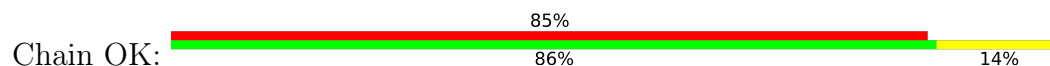
• Molecule 6: Phycoerythrin alpha subunit



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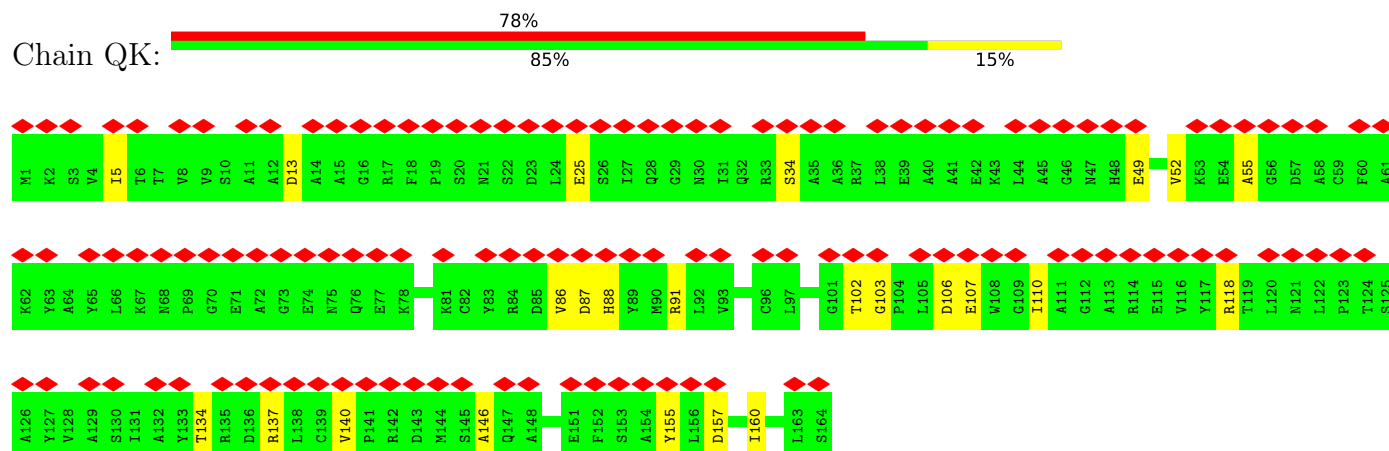


• Molecule 6: Phycoerythrin alpha subunit



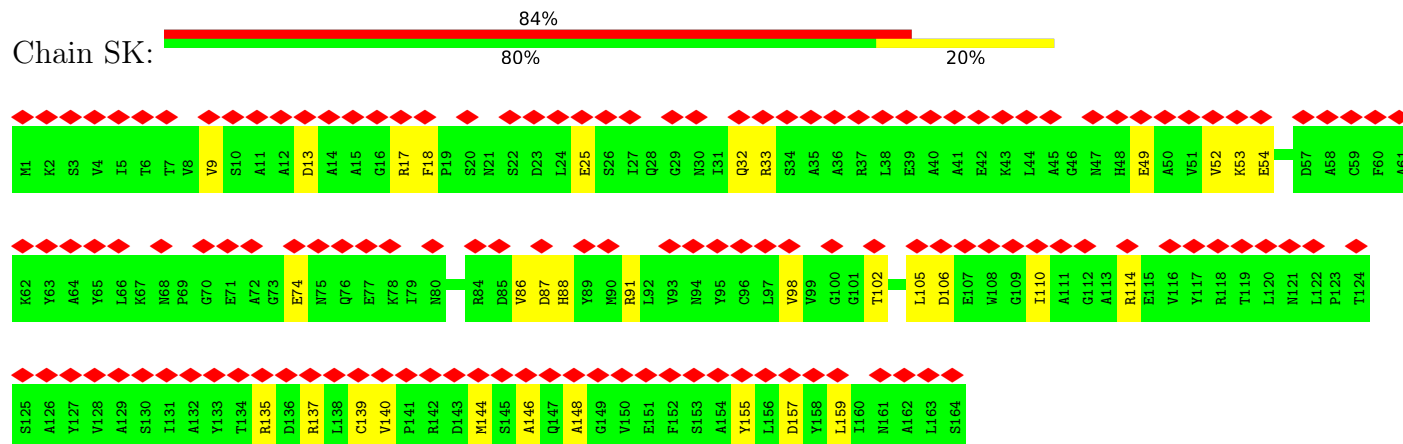
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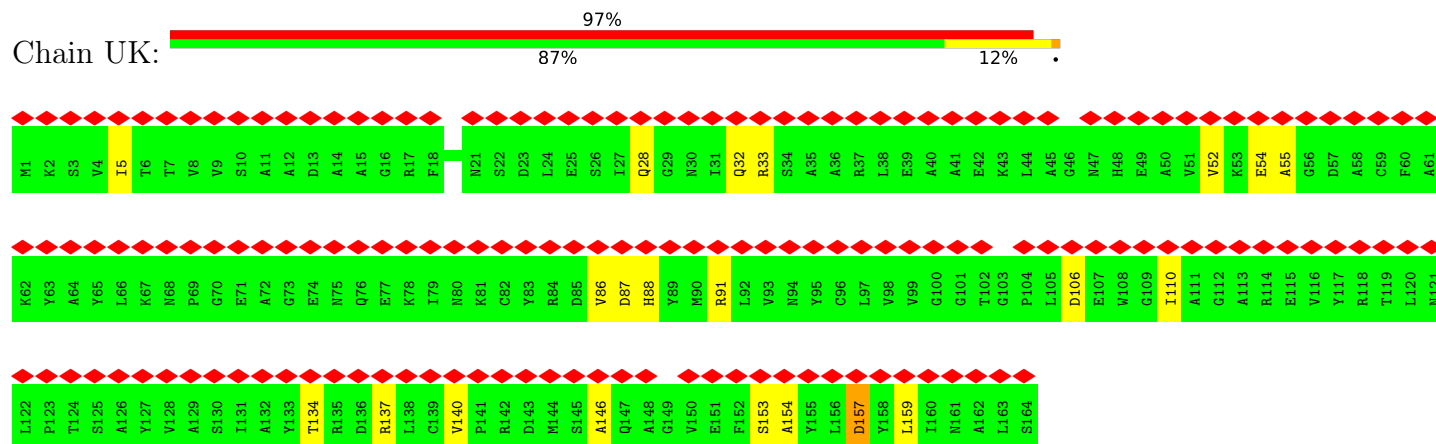
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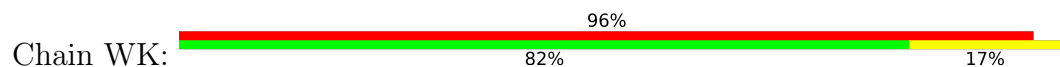
• Molecule 6: Phycoerythrin alpha subunit

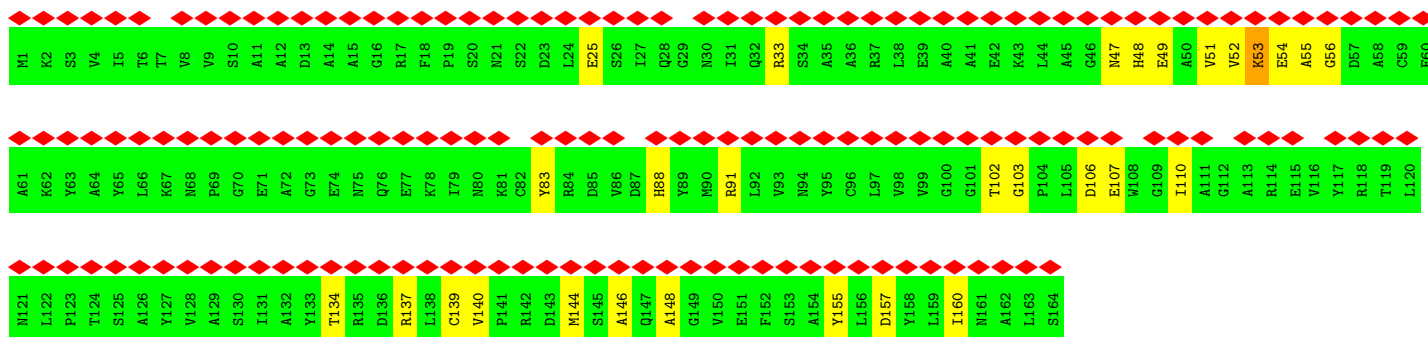
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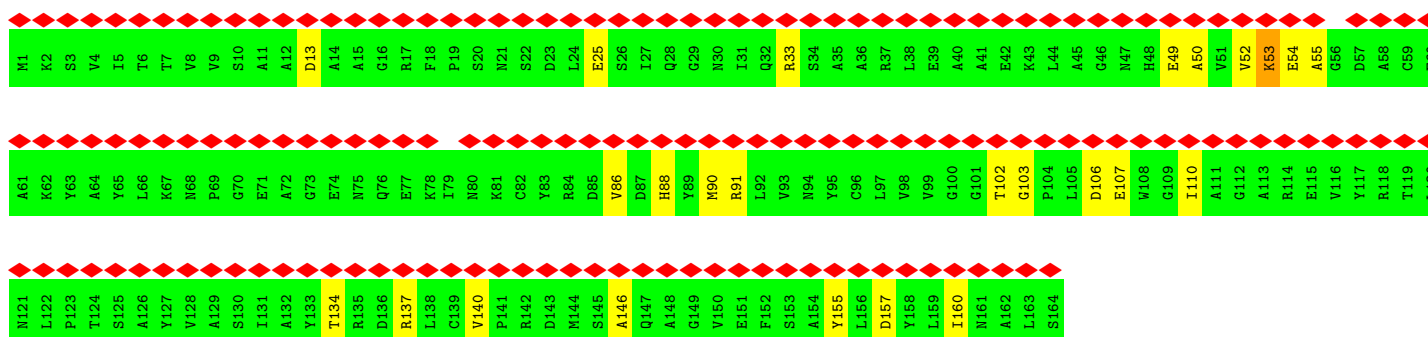
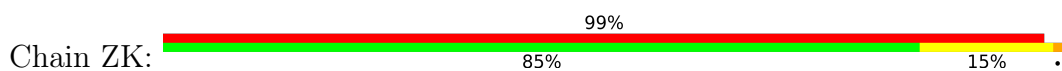
• Molecule 6: Phycoerythrin alpha subunit

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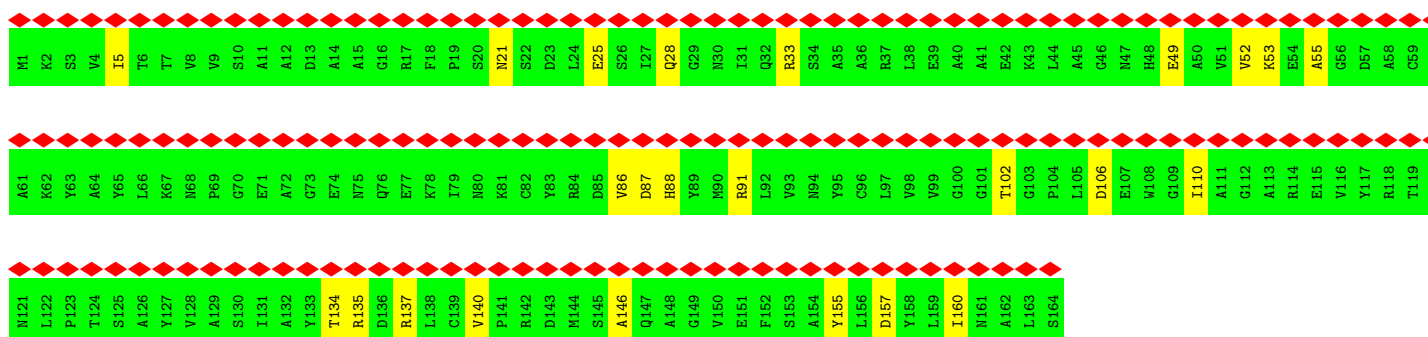
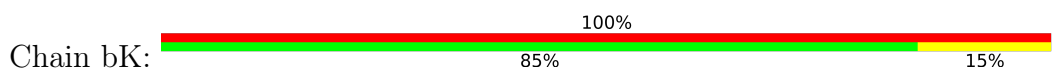




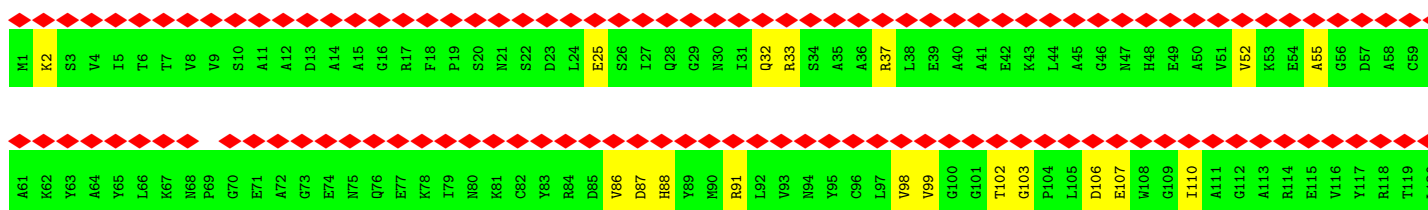
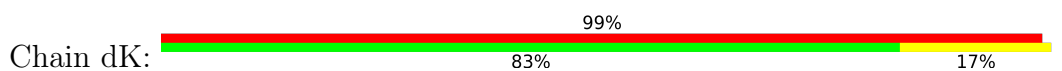
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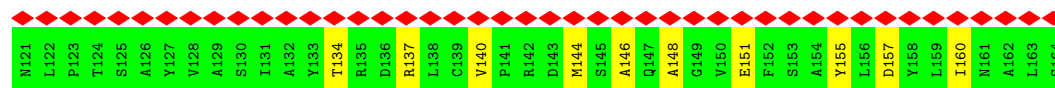


• Molecule 6: Phycoerythrin alpha subunit

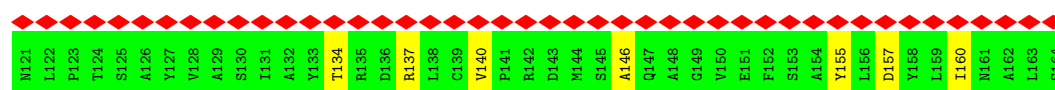
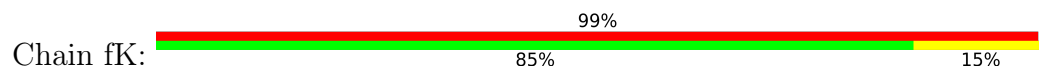


• Molecule 6: Phycoerythrin alpha subunit

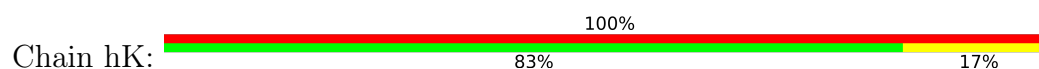




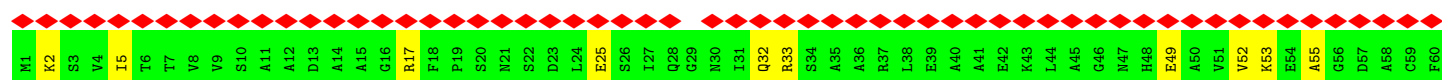
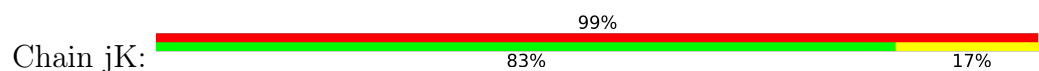
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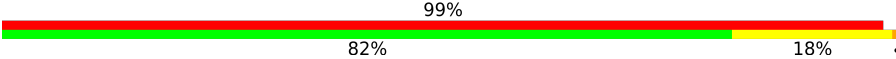
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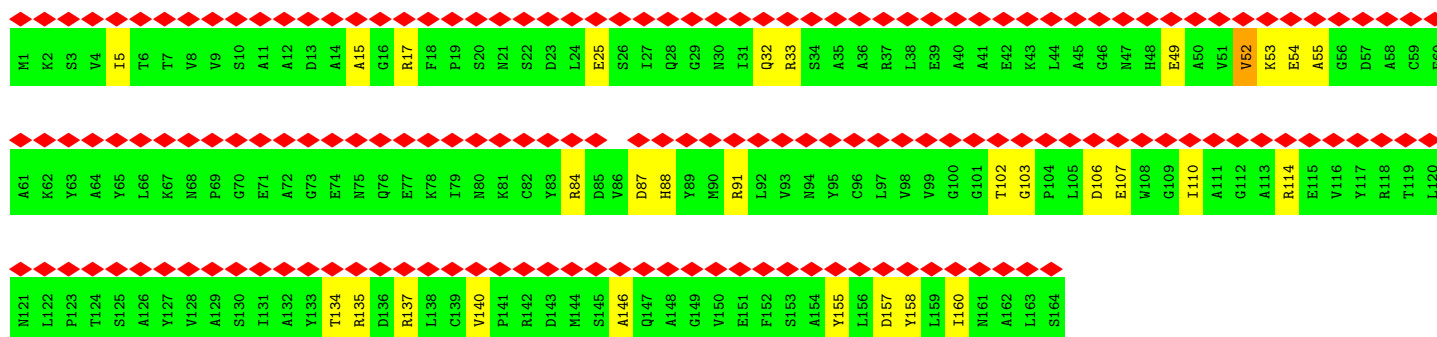


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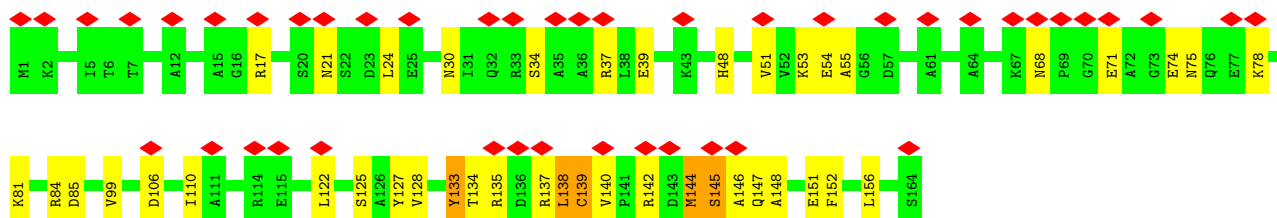
• Molecule 6: Phycoerythrin alpha subunit

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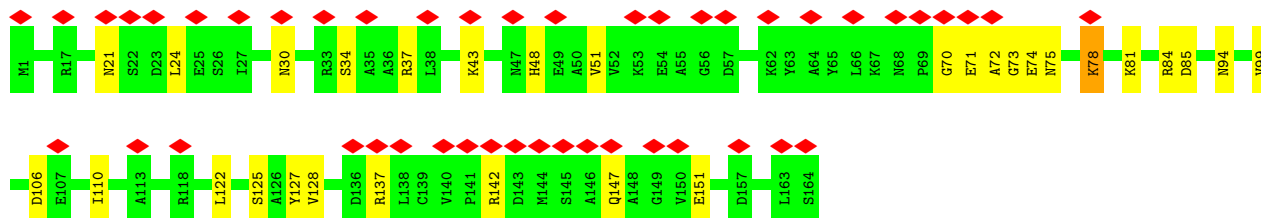
• Molecule 6: Phycoerythrin alpha subunit

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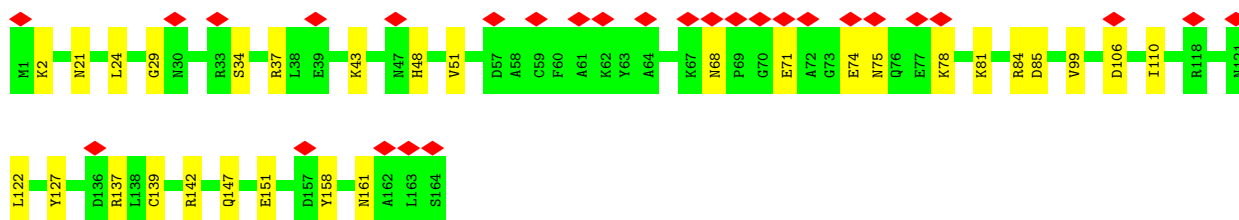
• Molecule 6: Phycoerythrin alpha subunit

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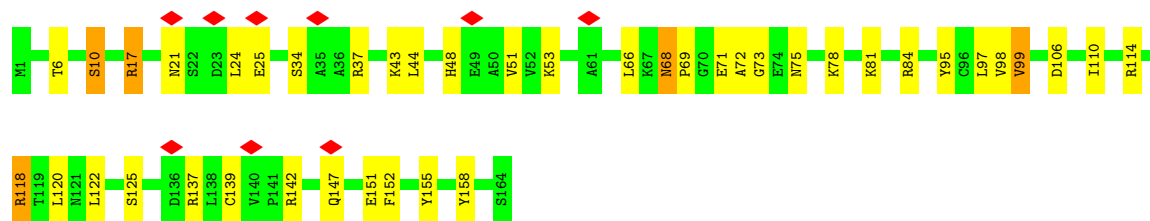
• Molecule 6: Phycoerythrin alpha subunit

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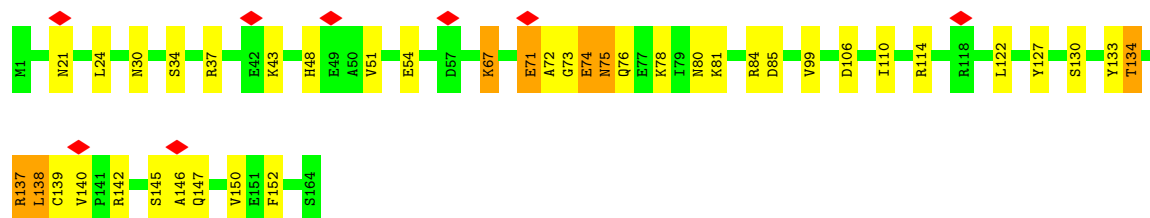
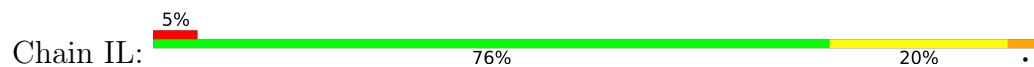


• Molecule 6: Phycoerythrin alpha subunit

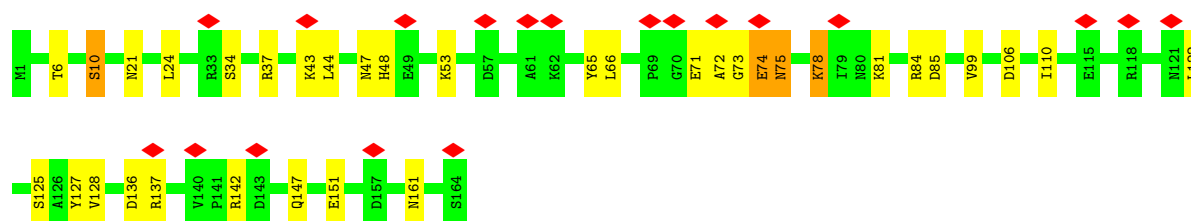
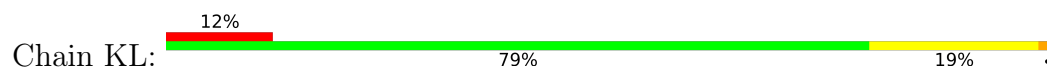
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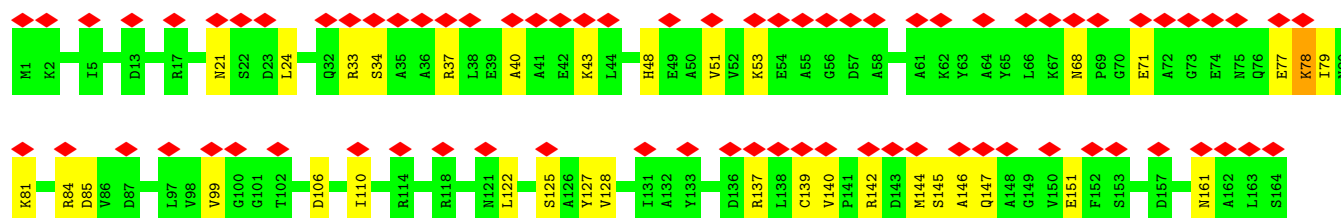
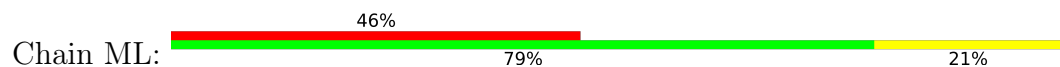
• Molecule 6: Phycoerythrin alpha subunit



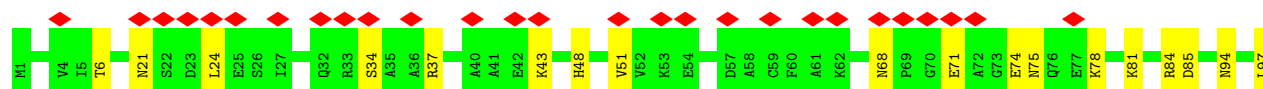
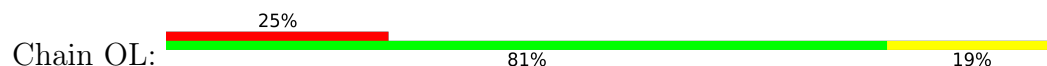
• Molecule 6: Phycoerythrin alpha subunit



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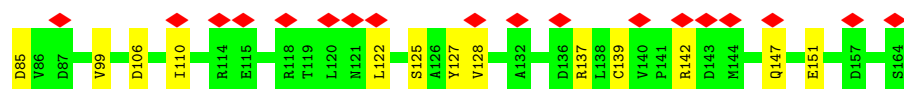
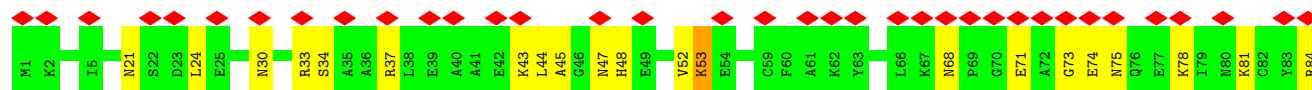
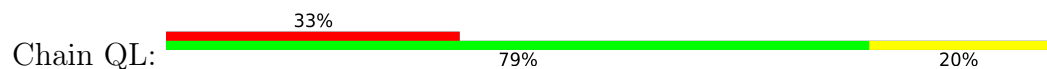


• Molecule 6: Phycoerythrin alpha subunit

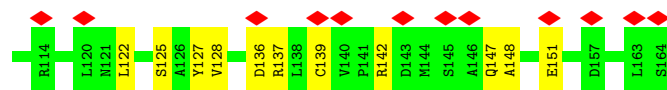
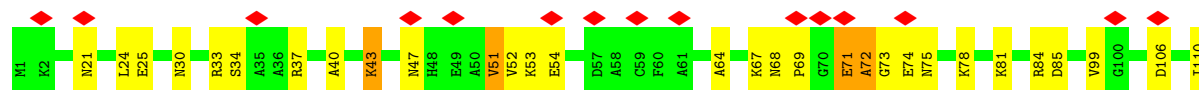
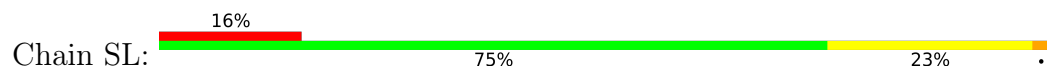




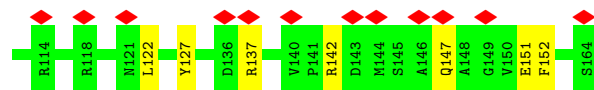
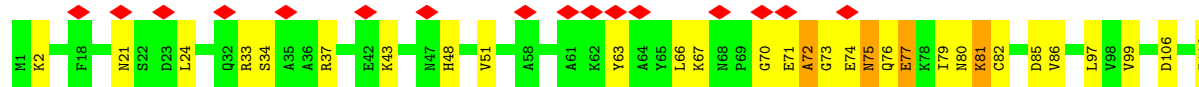
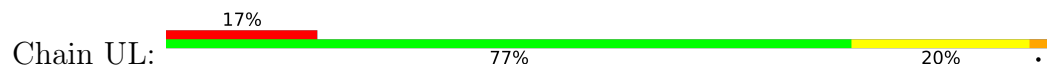
- Molecule 6: Phycoerythrin alpha subunit



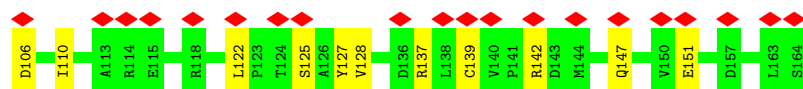
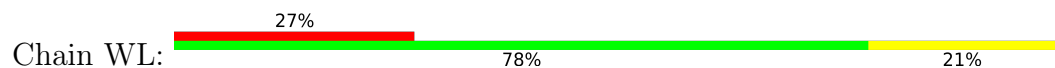
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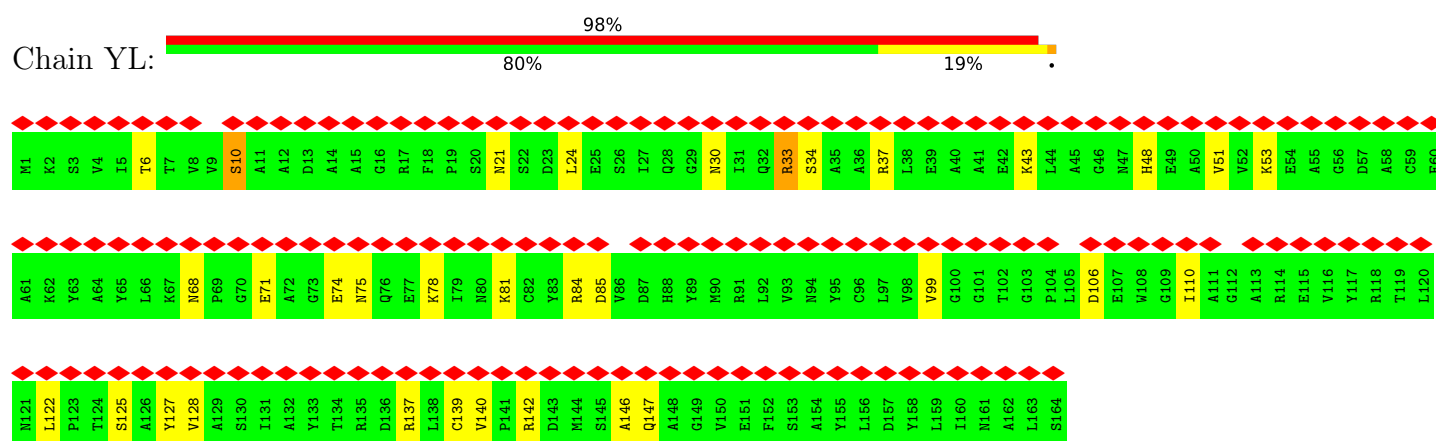
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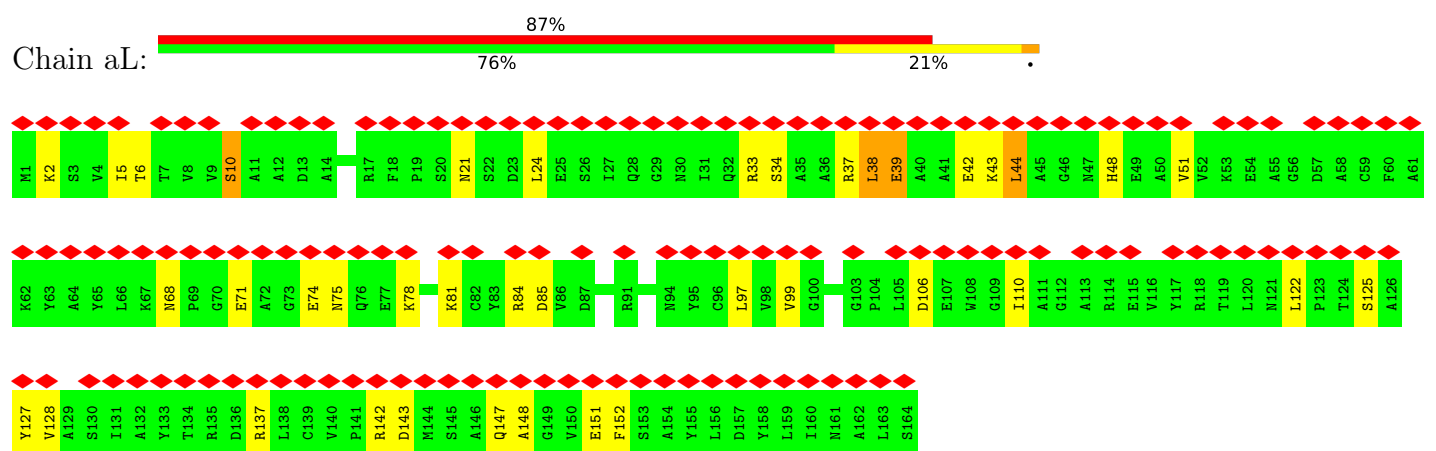
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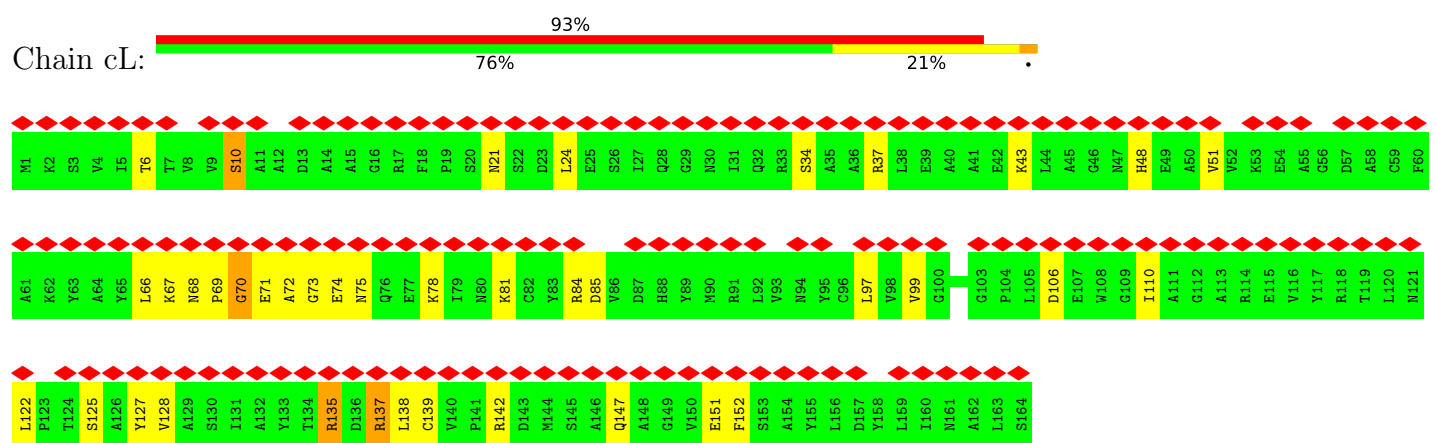
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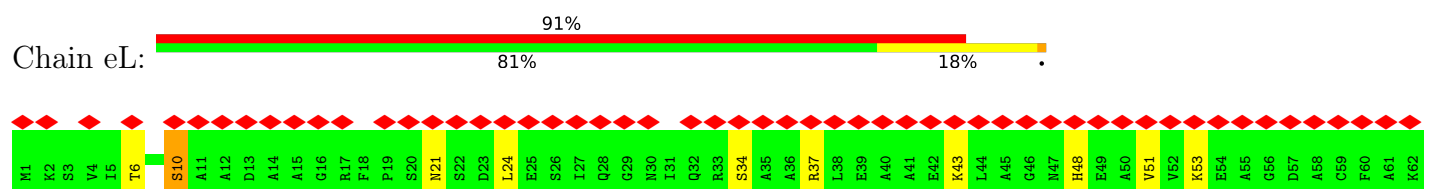
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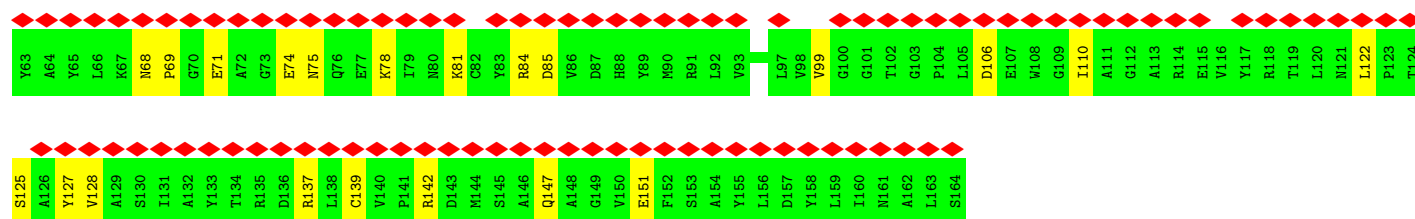


• Molecule 6: Phycoerythrin alpha subunit

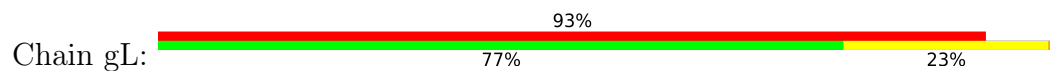


• Molecule 6: Phycoerythrin alpha subunit

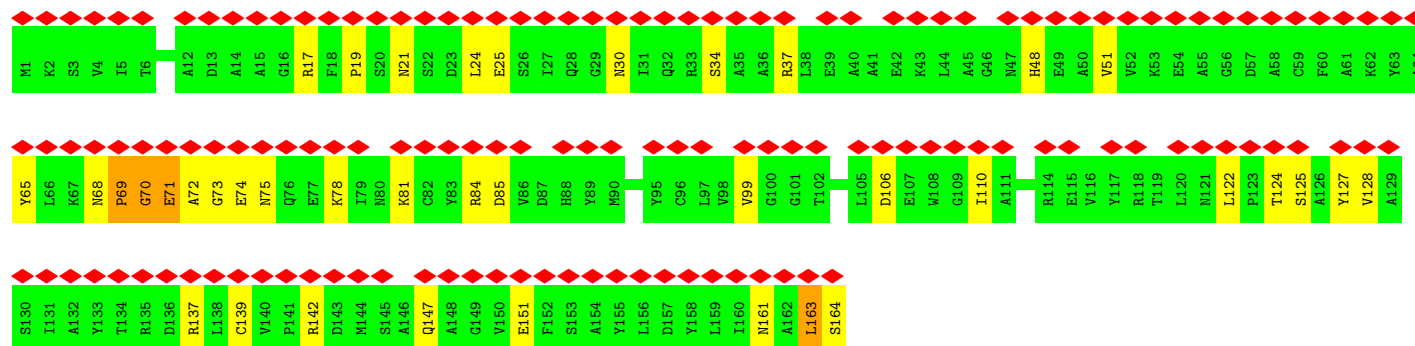
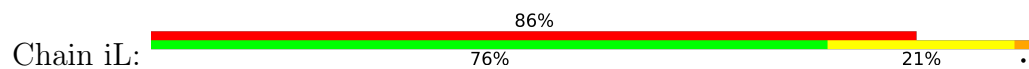




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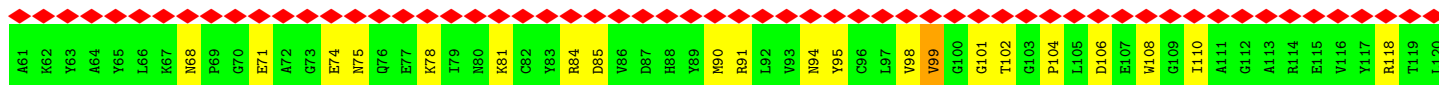


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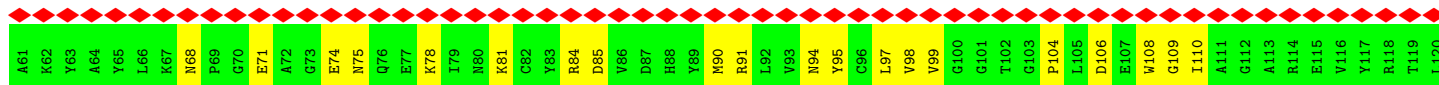




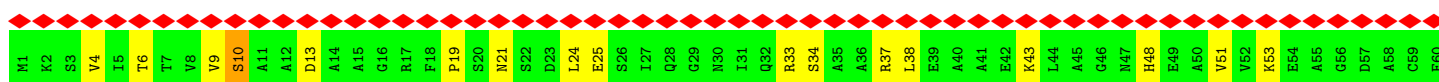
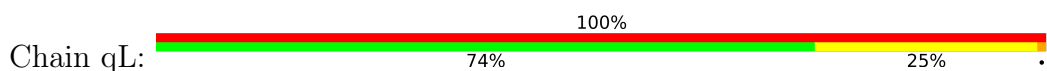
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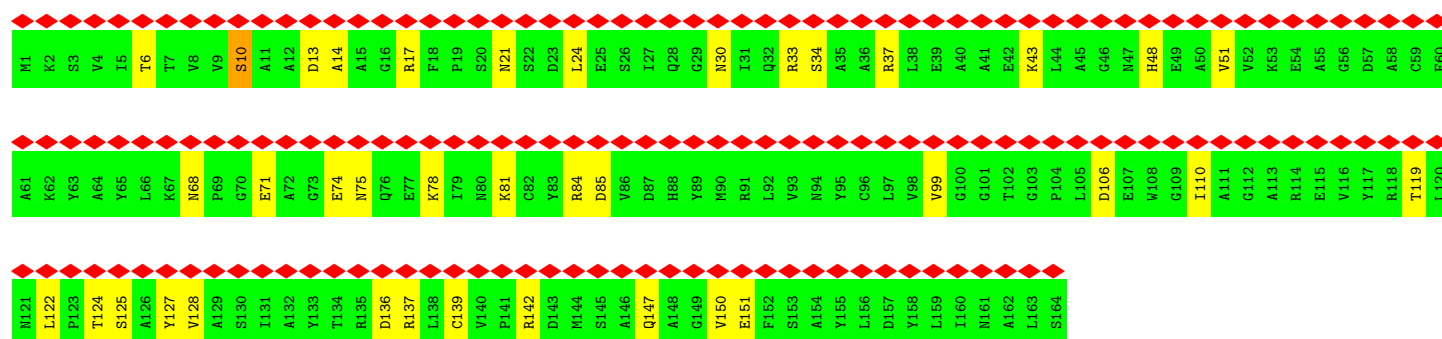
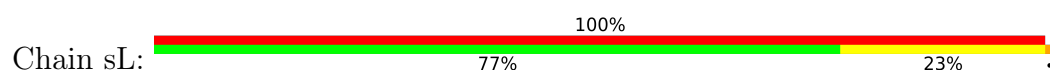
• Molecule 6: Phycoerythrin alpha subunit



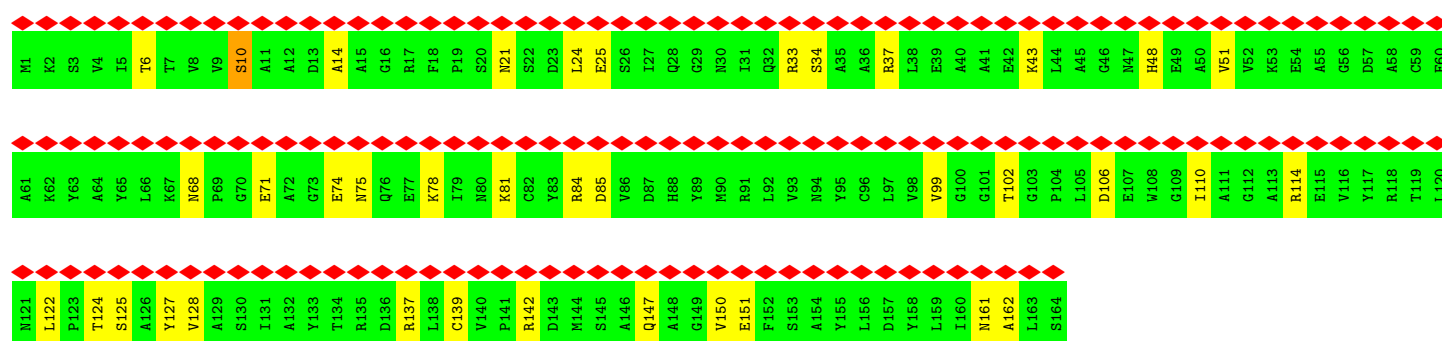
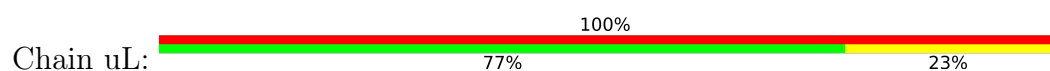
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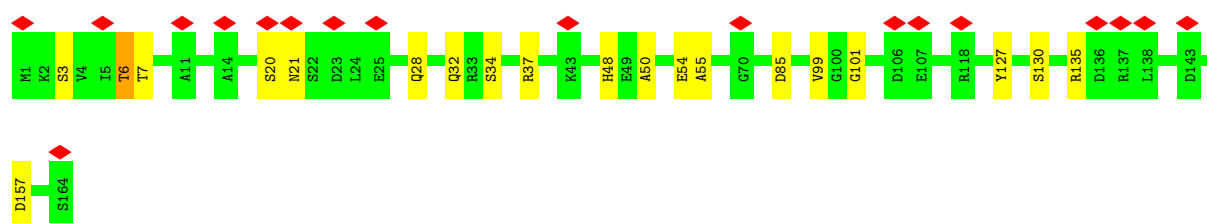
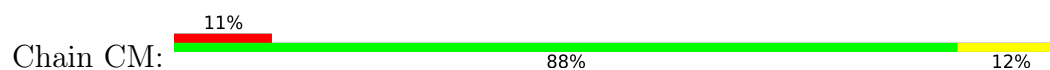
• Molecule 6: Phycoerythrin alpha subunit



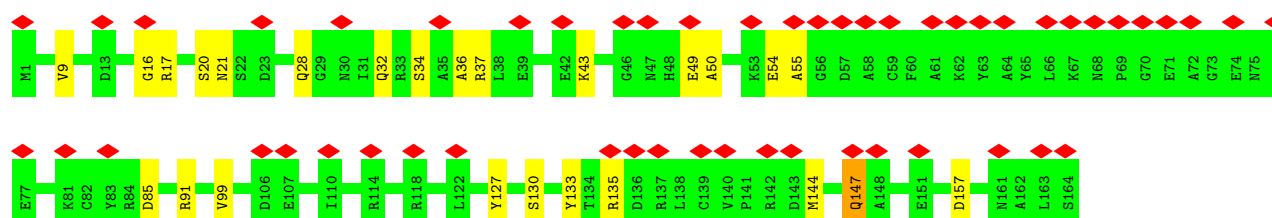
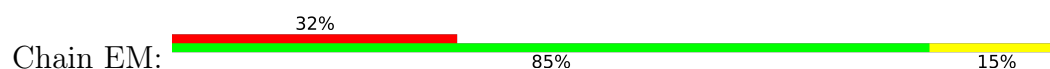
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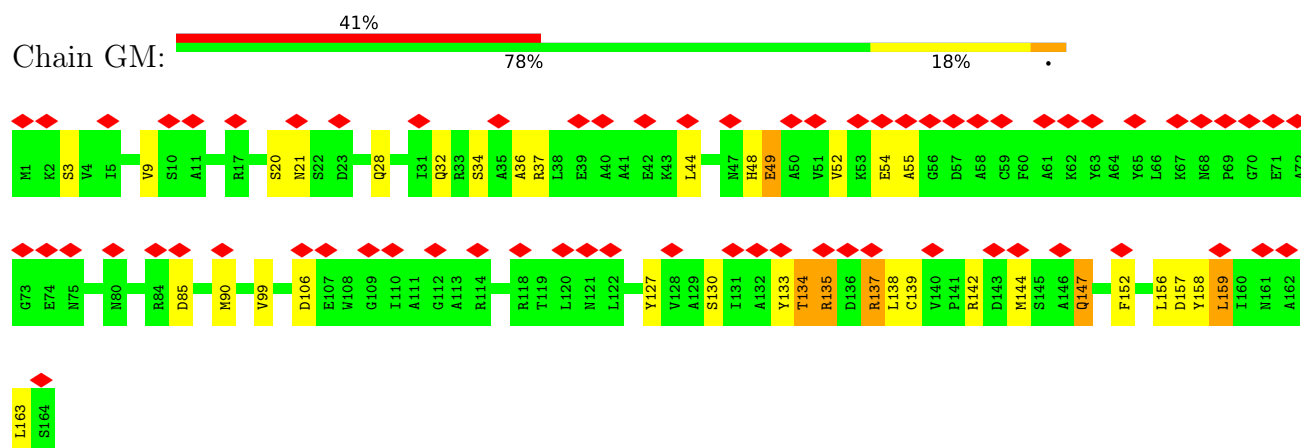
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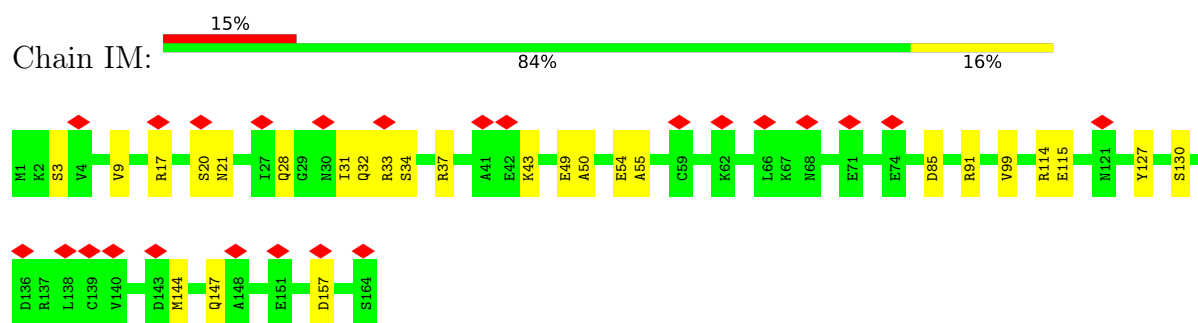
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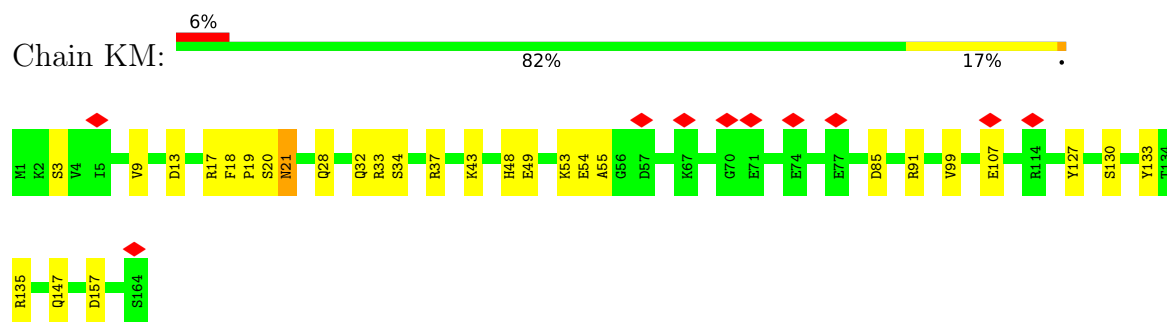
- Molecule 6: Phycoerythrin alpha subunit



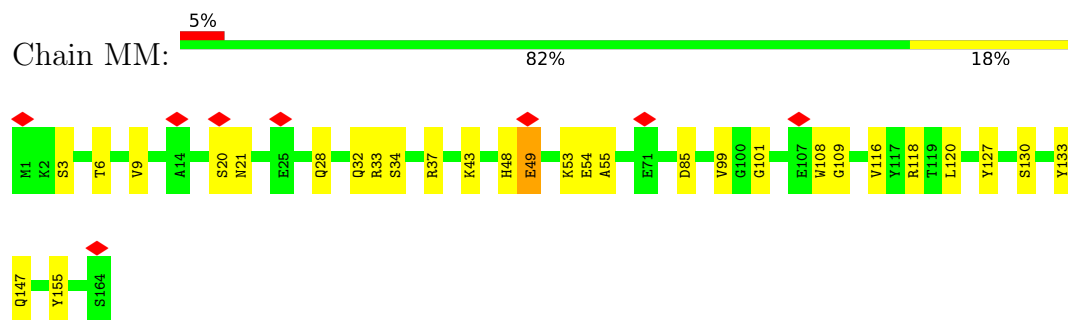
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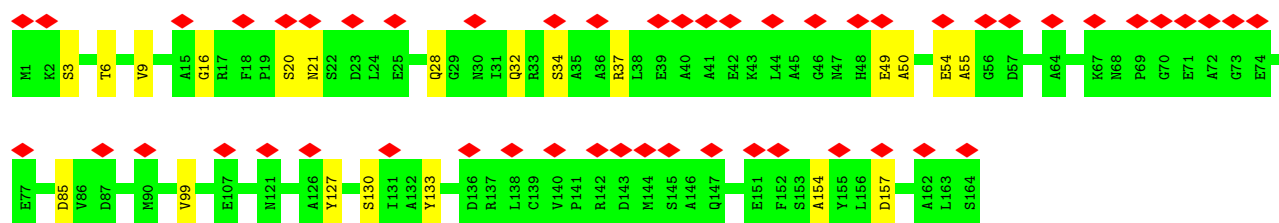
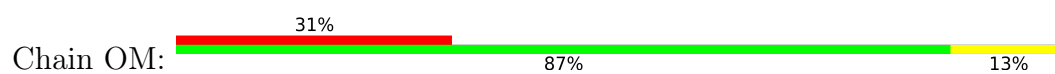
- Molecule 6: Phycoerythrin alpha subunit



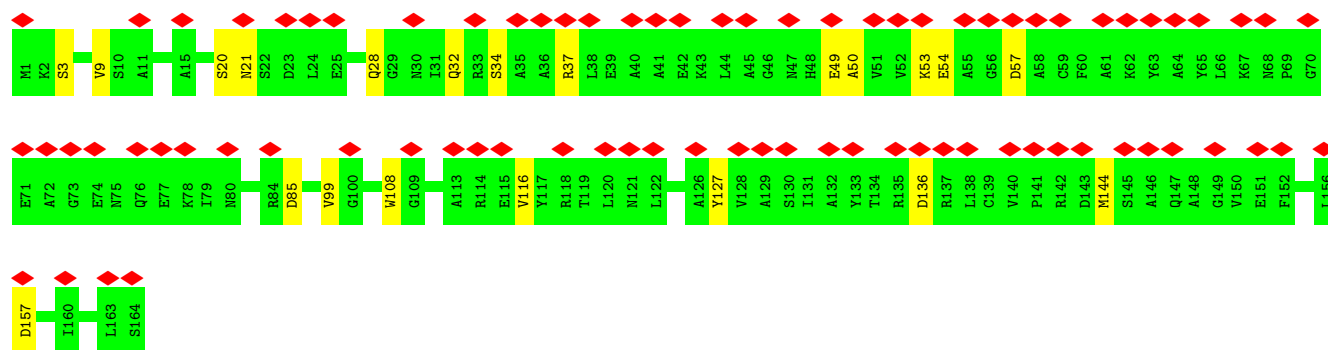
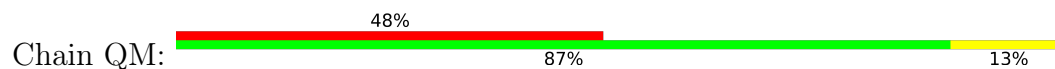
- Molecule 6: Phycoerythrin alpha subunit



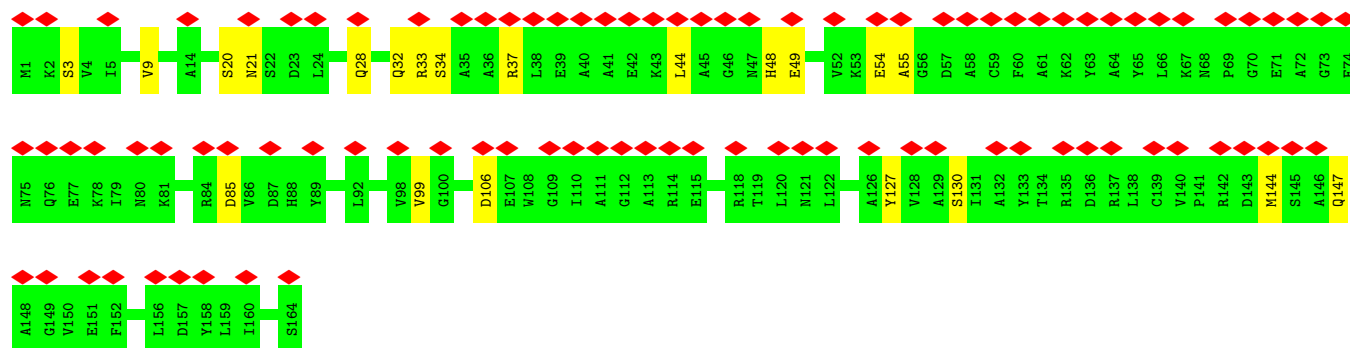
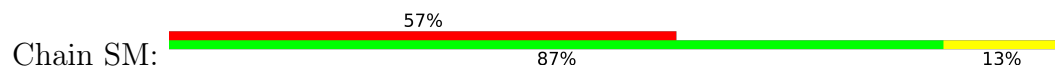
- Molecule 6: Phycoerythrin alpha subunit



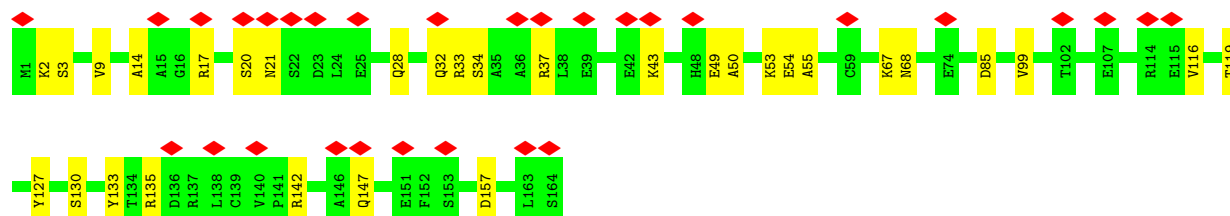
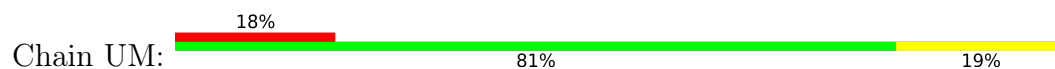
• Molecule 6: Phycoerythrin alpha subunit



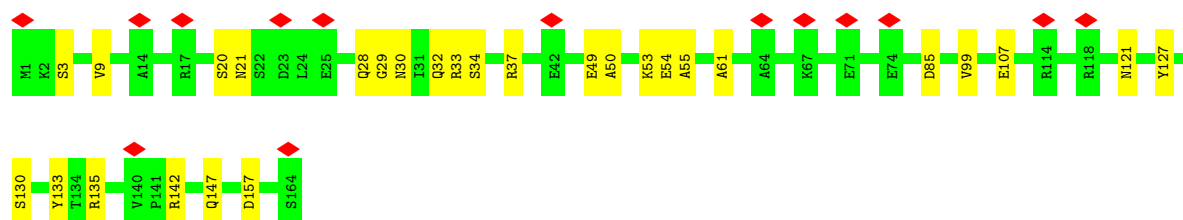
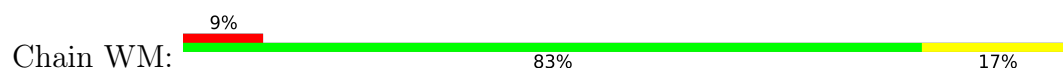
• Molecule 6: Phycoerythrin alpha subunit



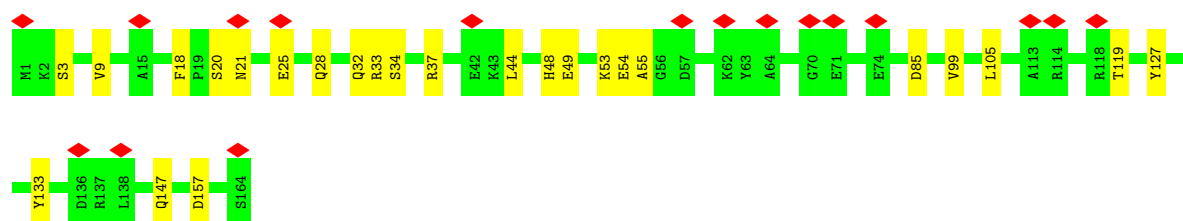
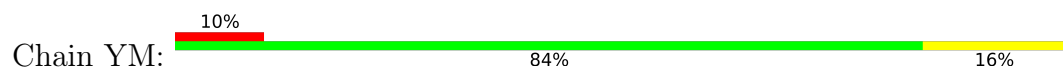
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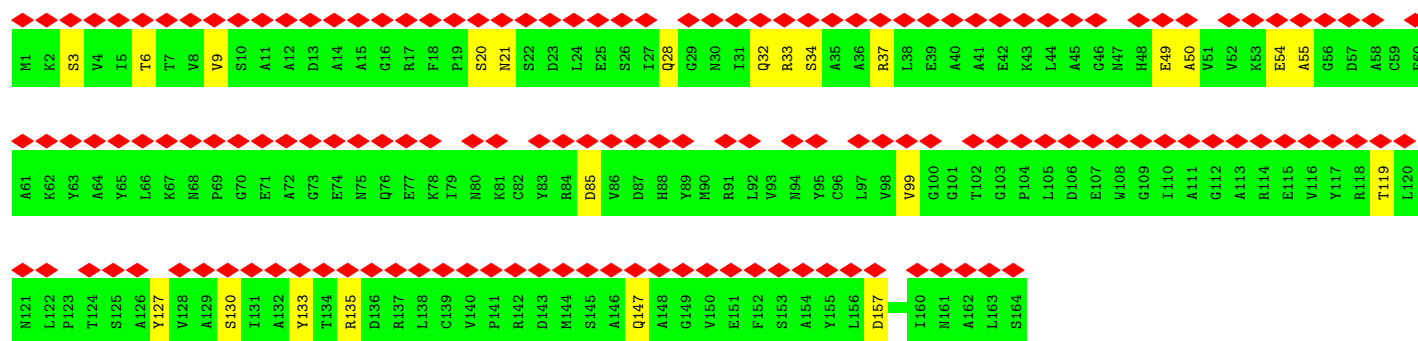
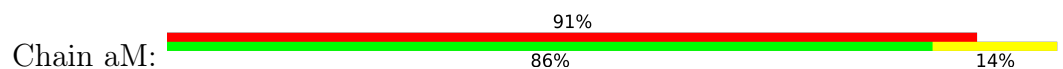
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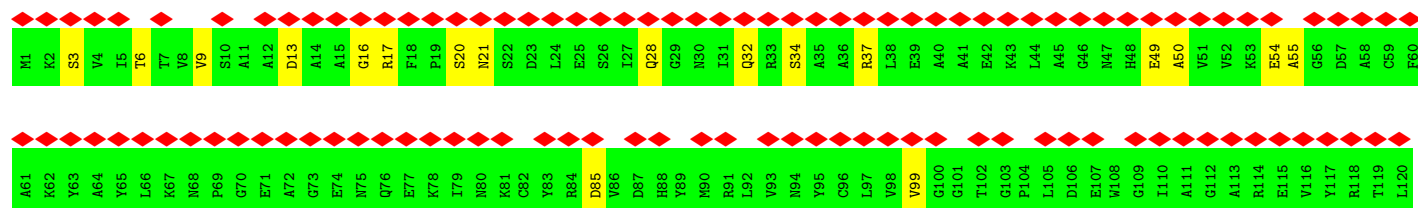
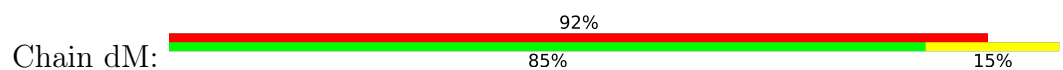
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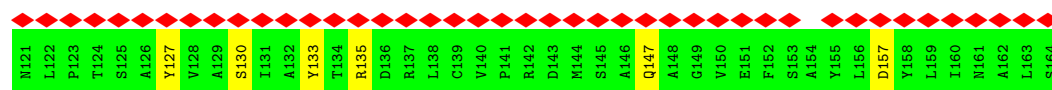


- Molecule 6: Phycoerythrin alpha subunit

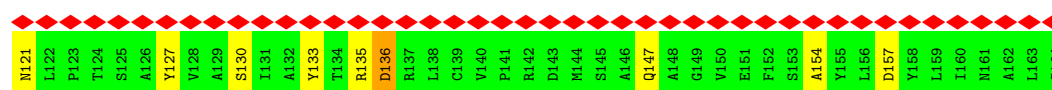
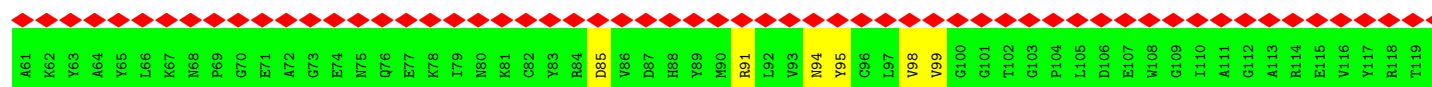
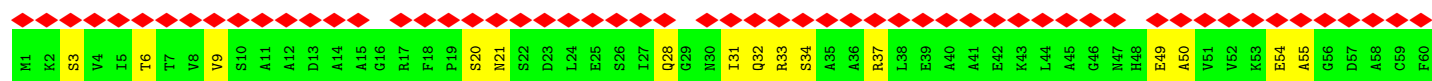
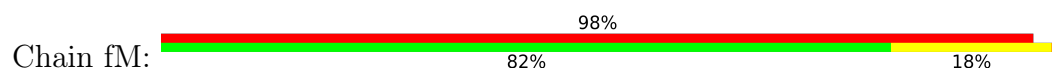


- Molecule 6: Phycoerythrin alpha subunit

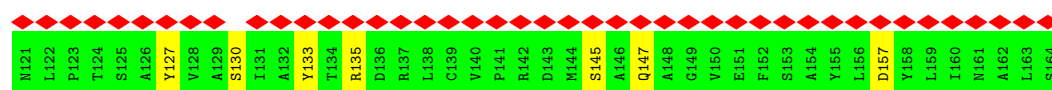
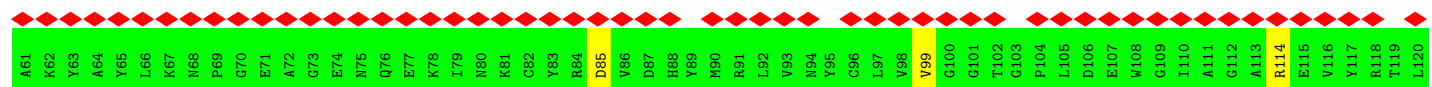
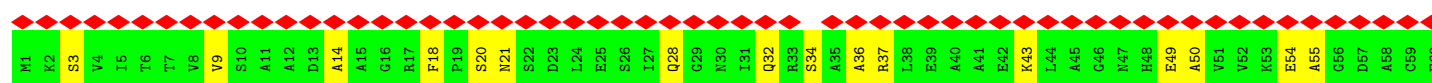
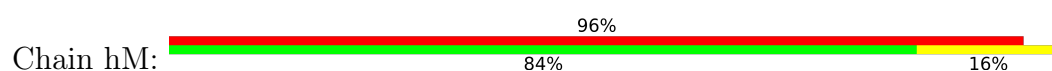




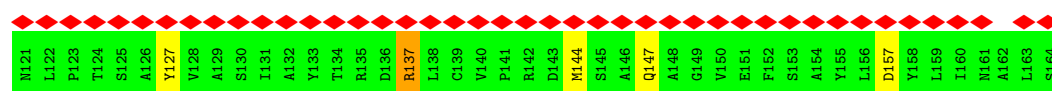
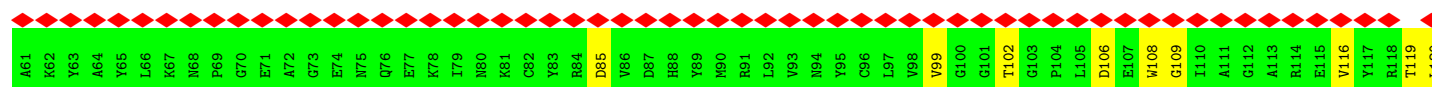
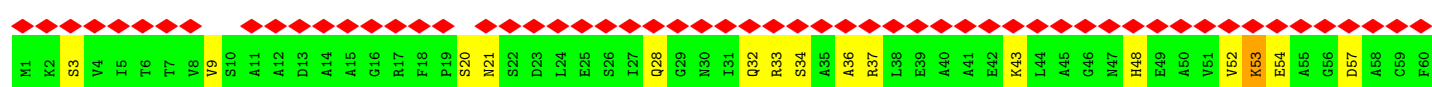
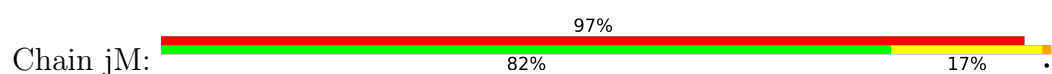
• Molecule 6: Phycoerythrin alpha subunit



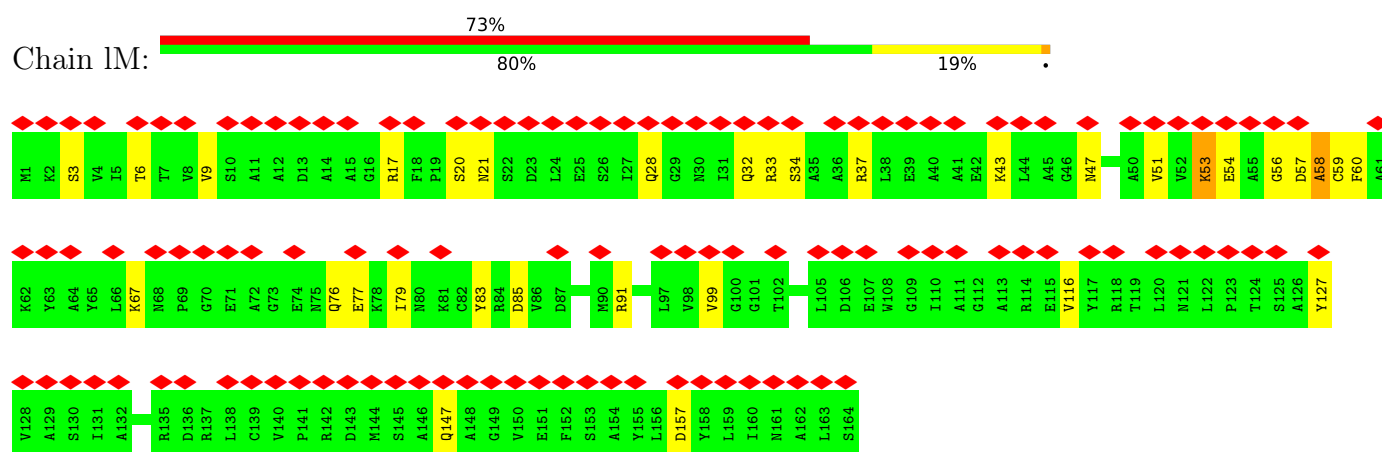
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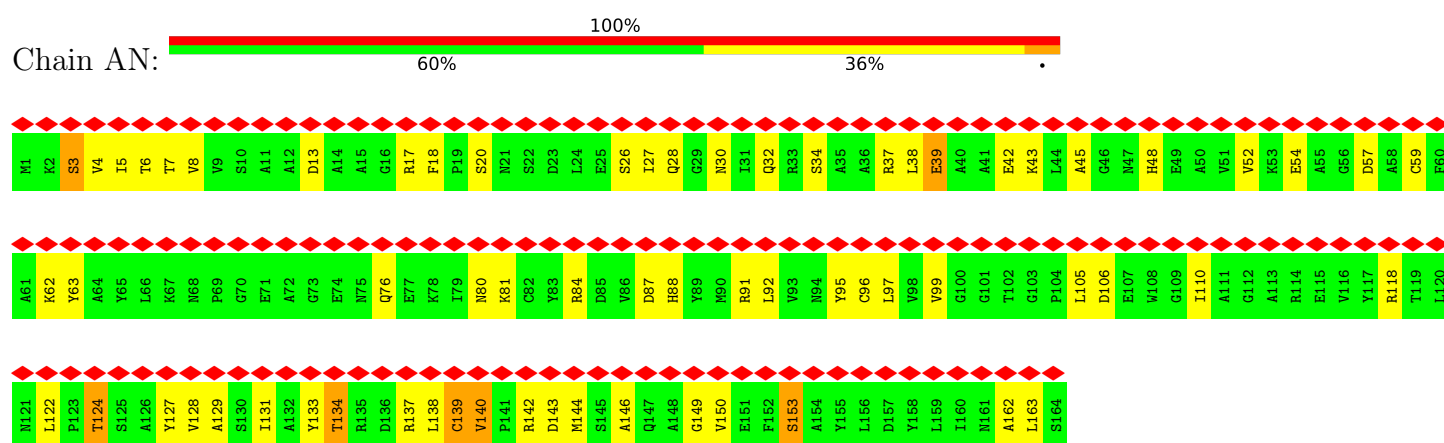
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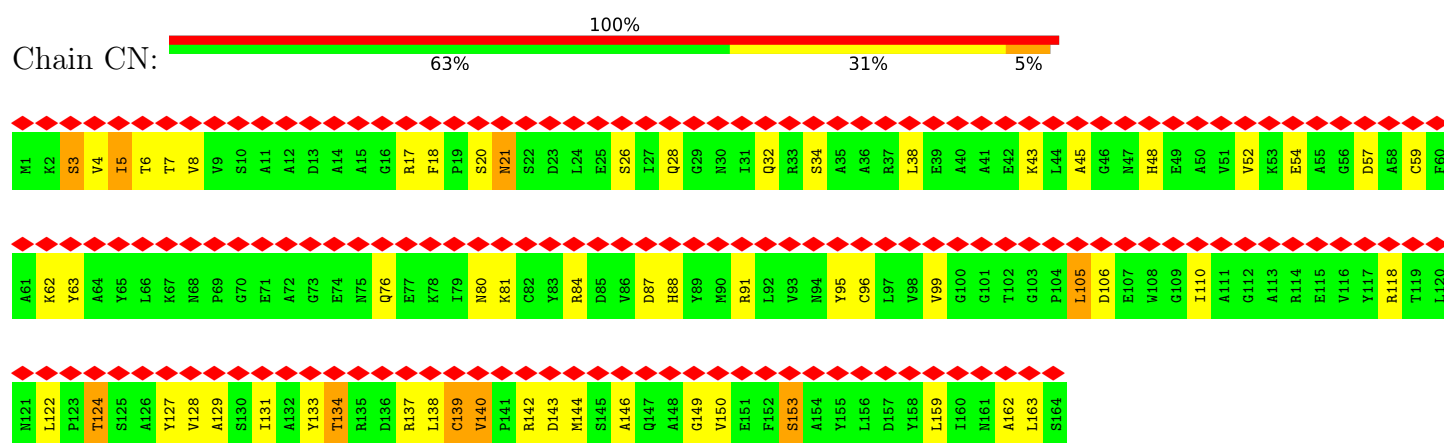
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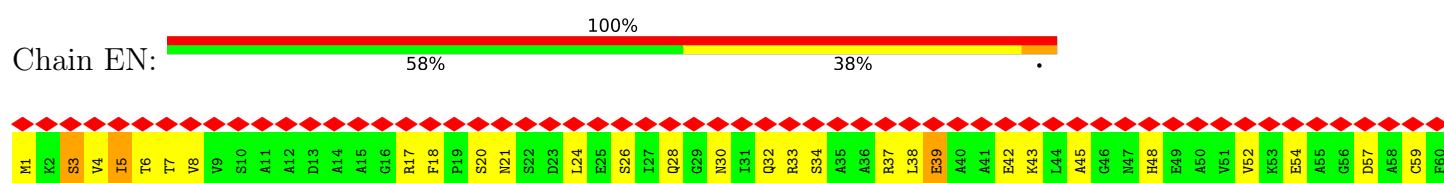
• Molecule 6: Phycoerythrin alpha subunit

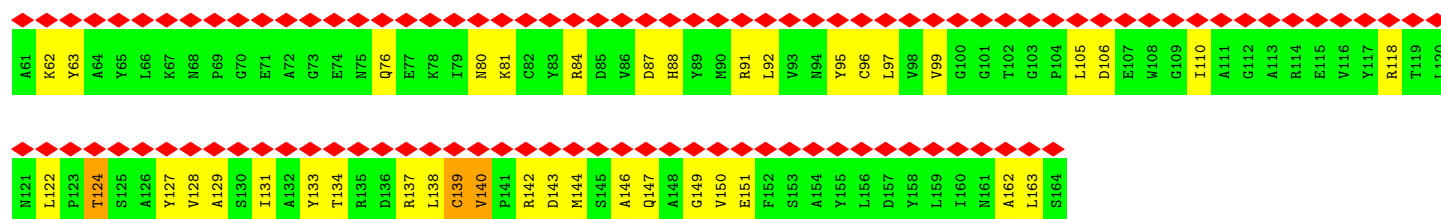


• Molecule 6: Phycoerythrin alpha subunit



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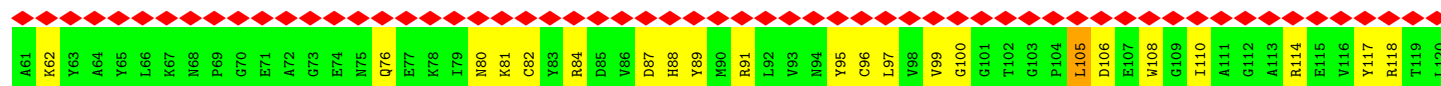
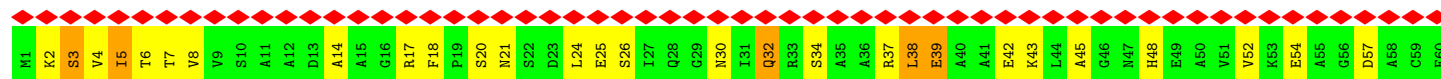




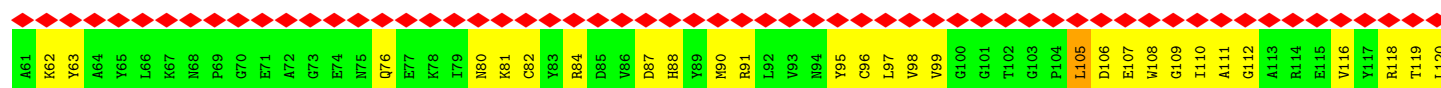
• Molecule 6: Phycoerythrin alpha subunit



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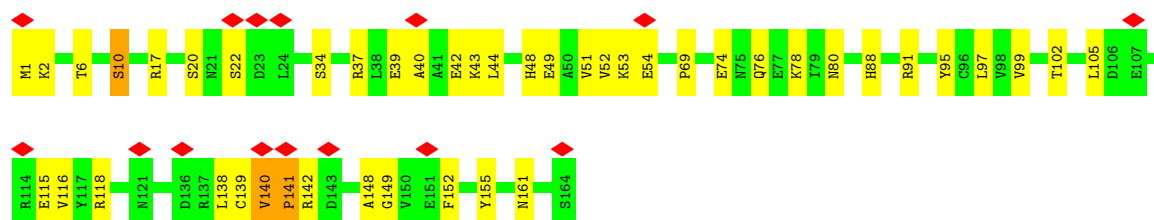


• Molecule 6: Phycoerythrin alpha subunit



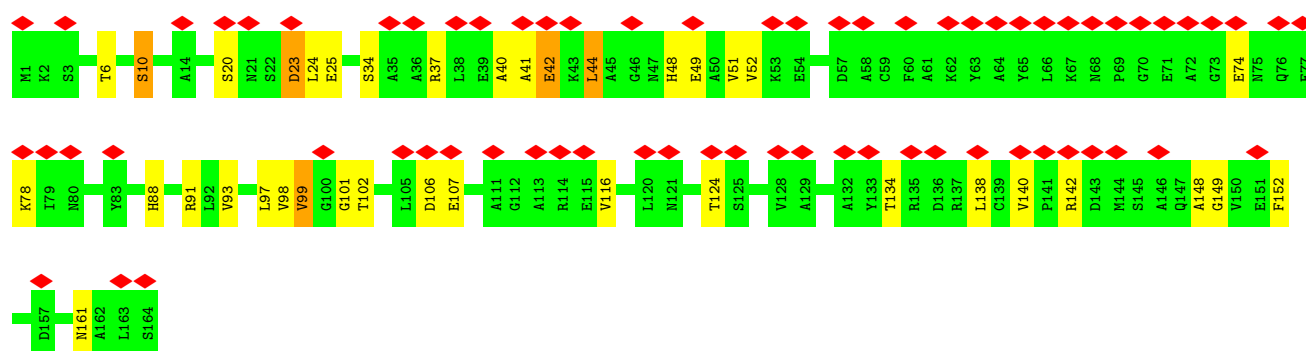
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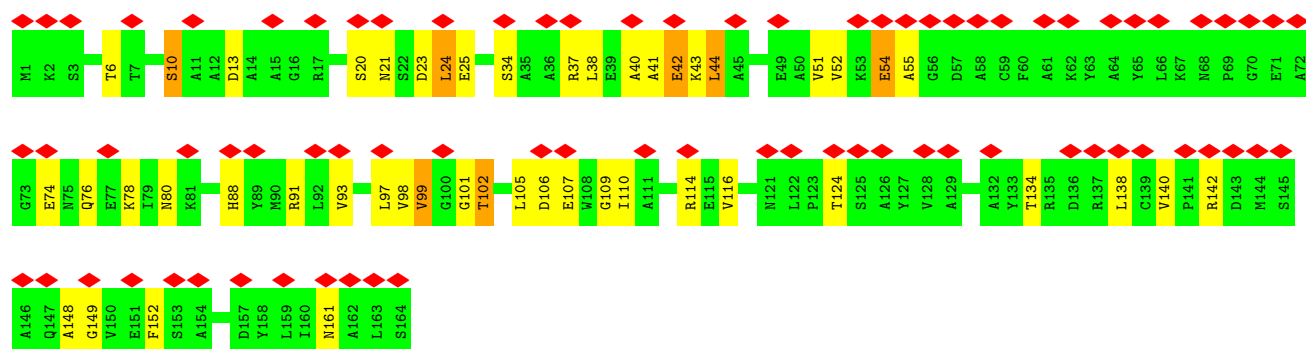
- Molecule 6: Phycoerythrin alpha subunit

Chain CO: 



- Molecule 6: Phycoerythrin alpha subunit

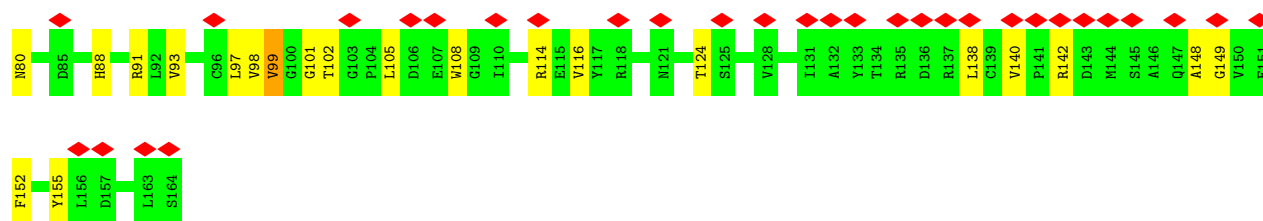
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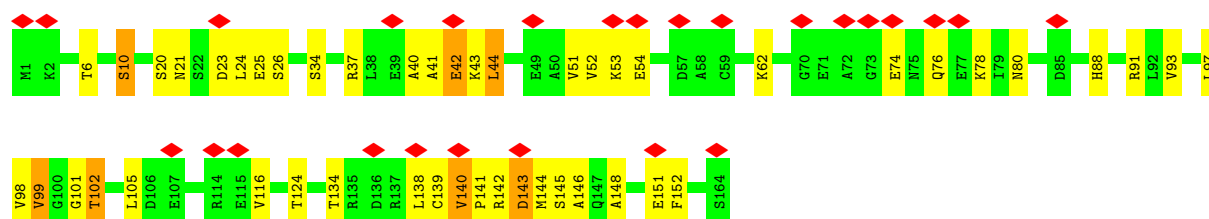
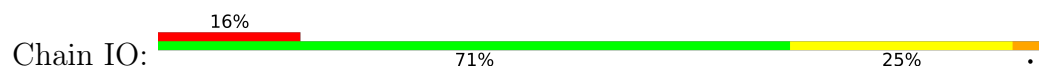
- Molecule 6: Phycoerythrin alpha subunit

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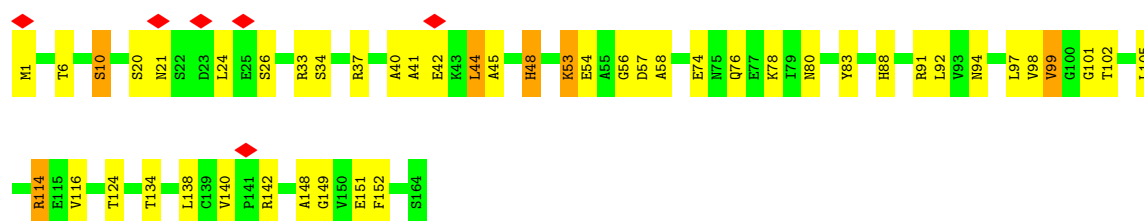
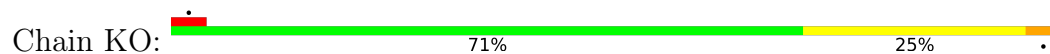




• Molecule 6: Phycoerythrin alpha subunit



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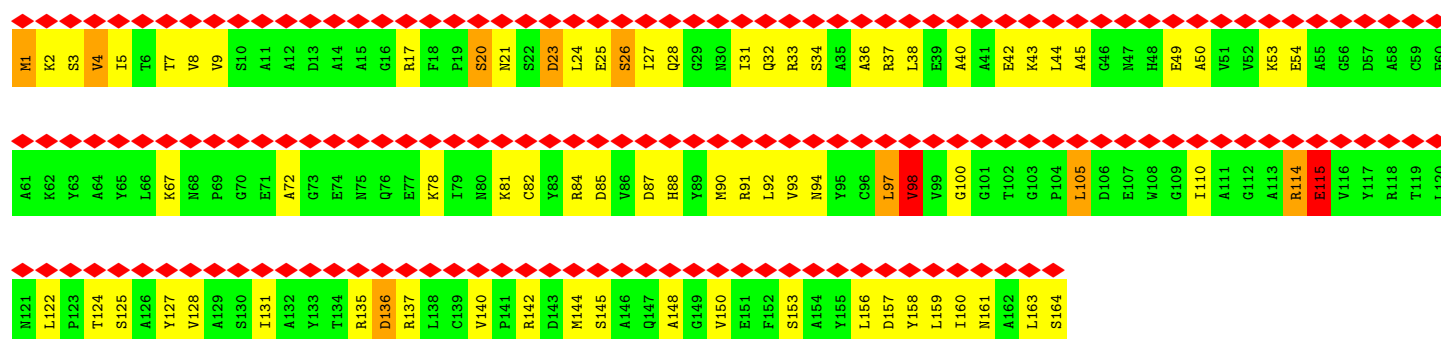


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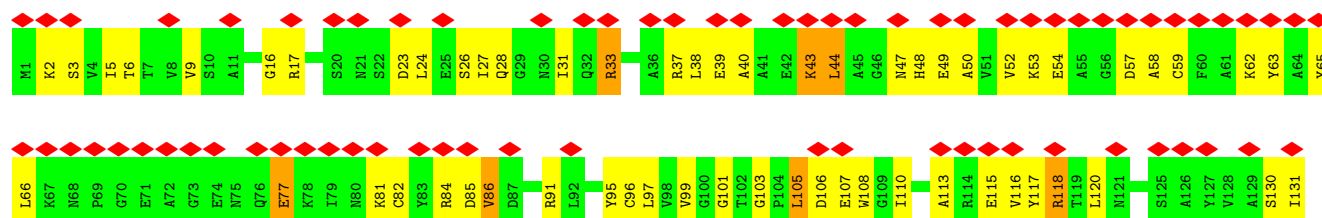




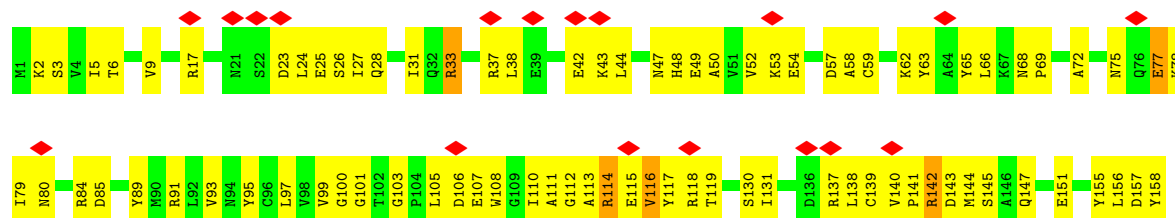
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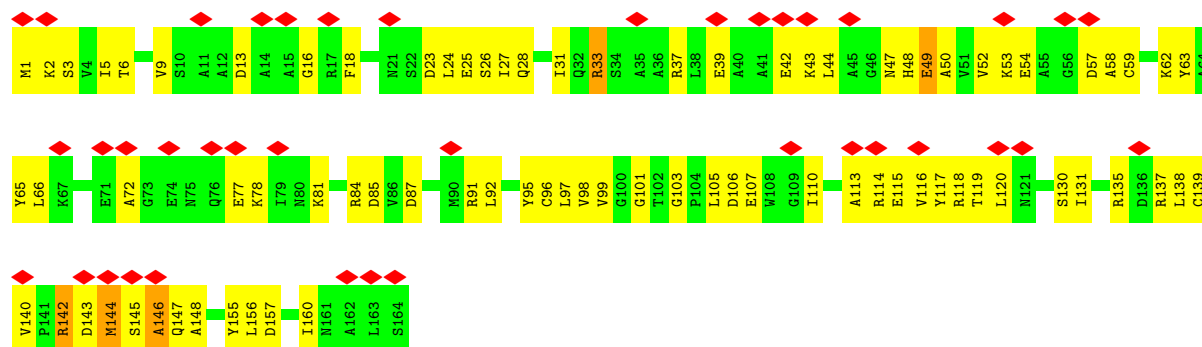
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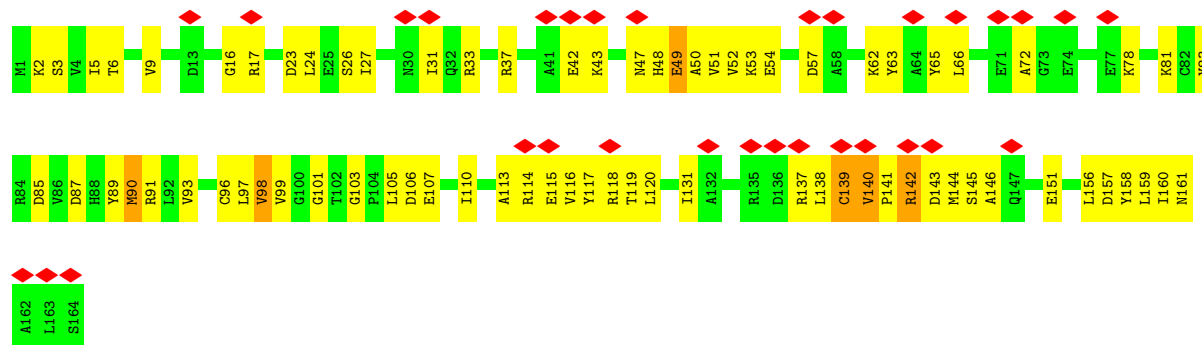
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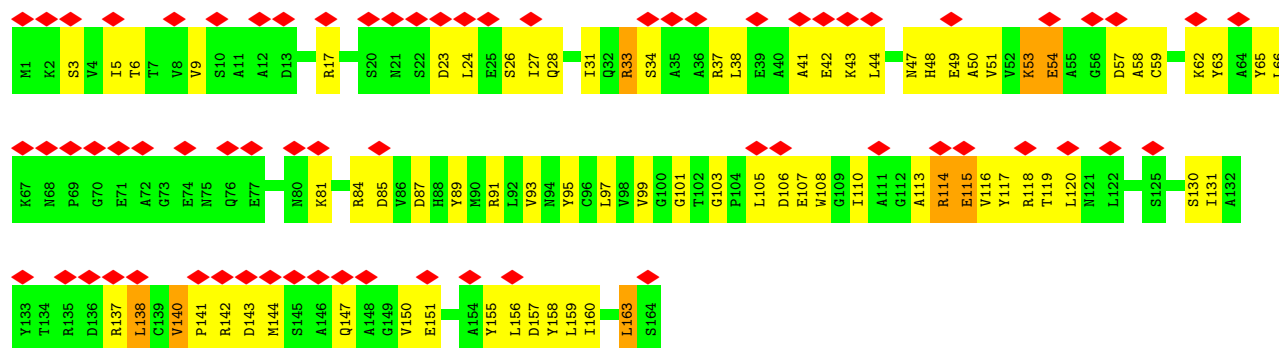
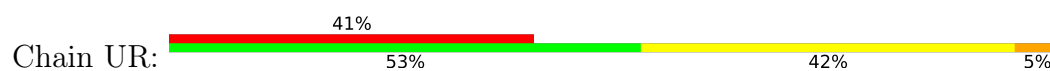
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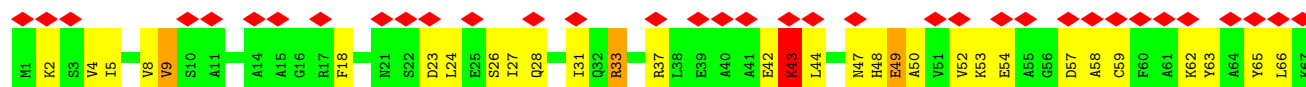
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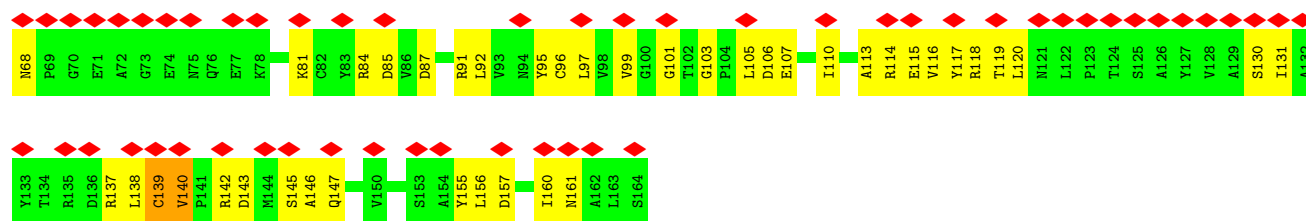


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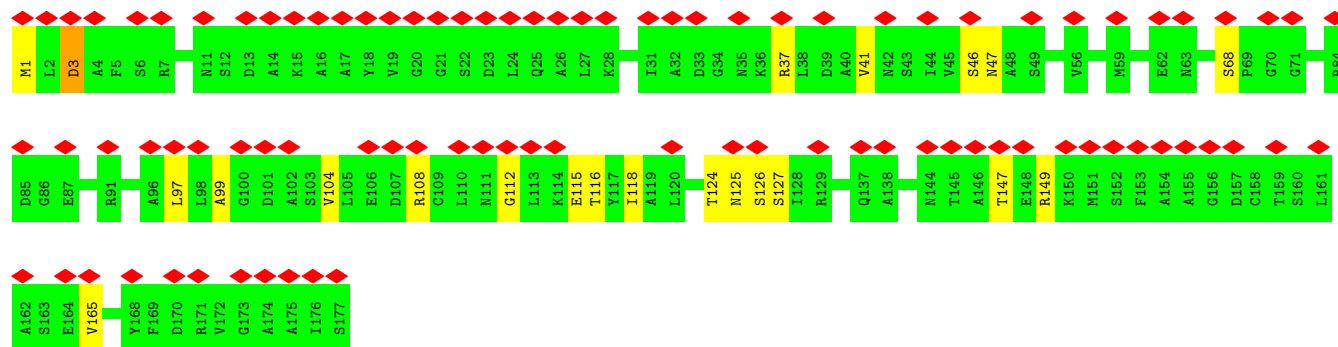
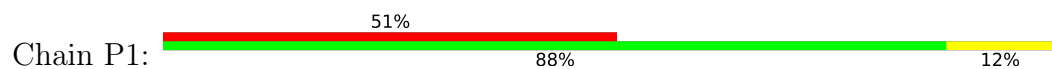


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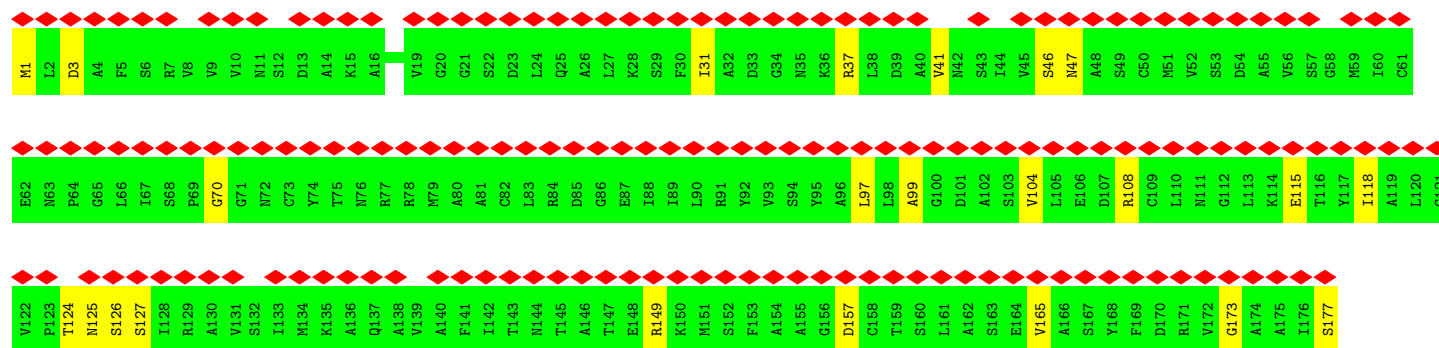
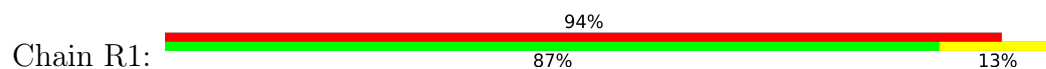




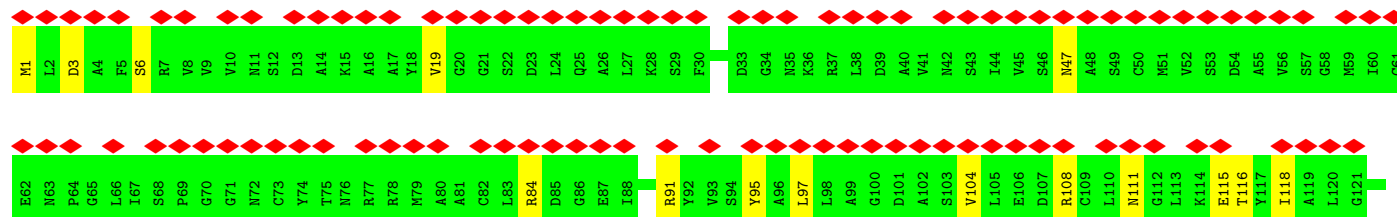
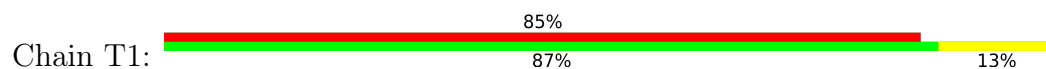
• Molecule 7: B-phycoerythrin beta chain



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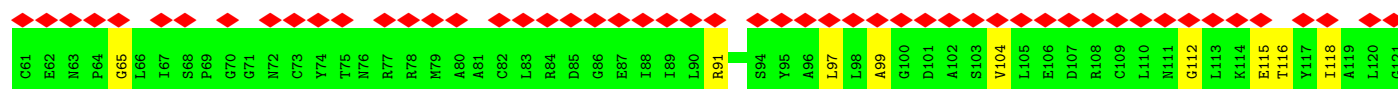
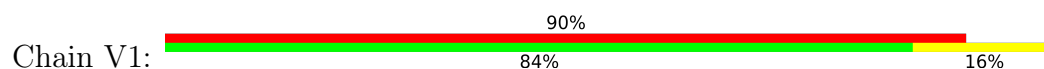


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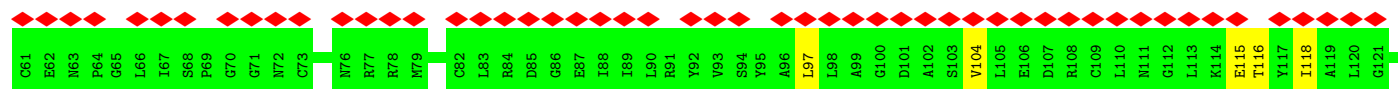
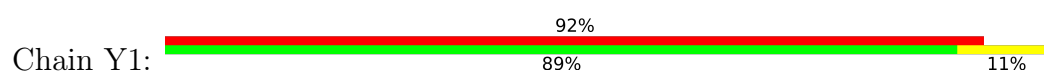




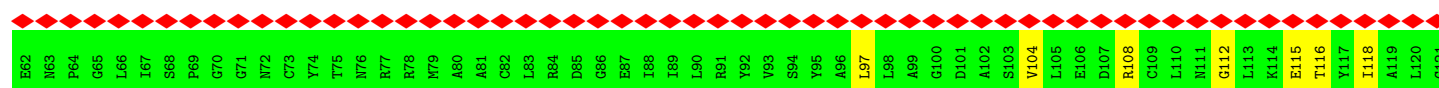
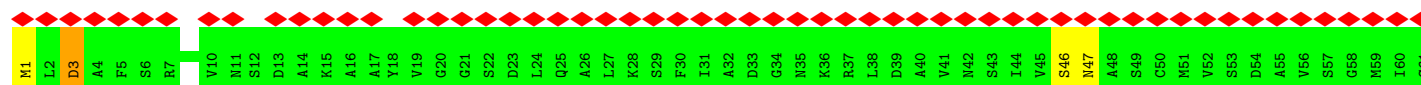
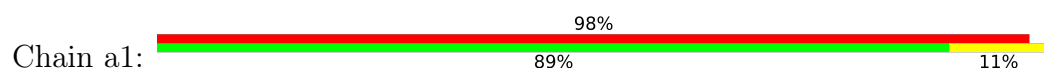
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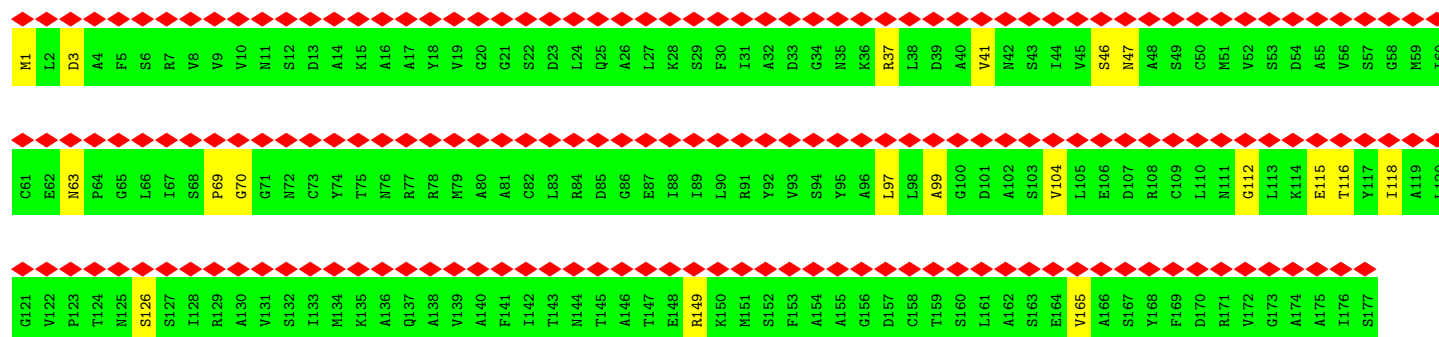
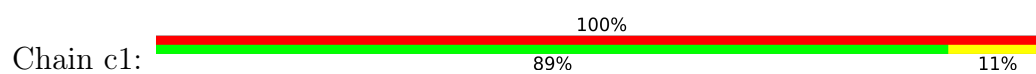
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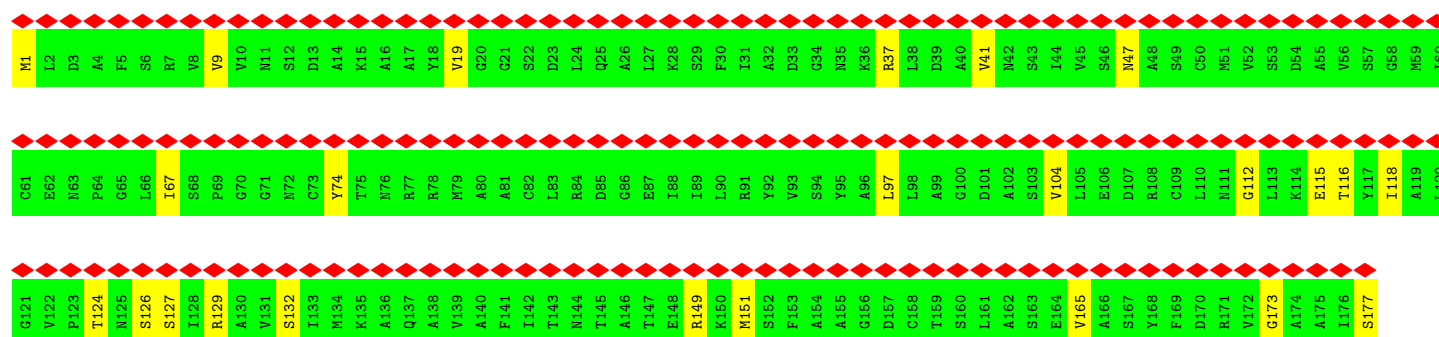
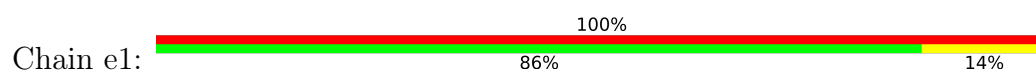
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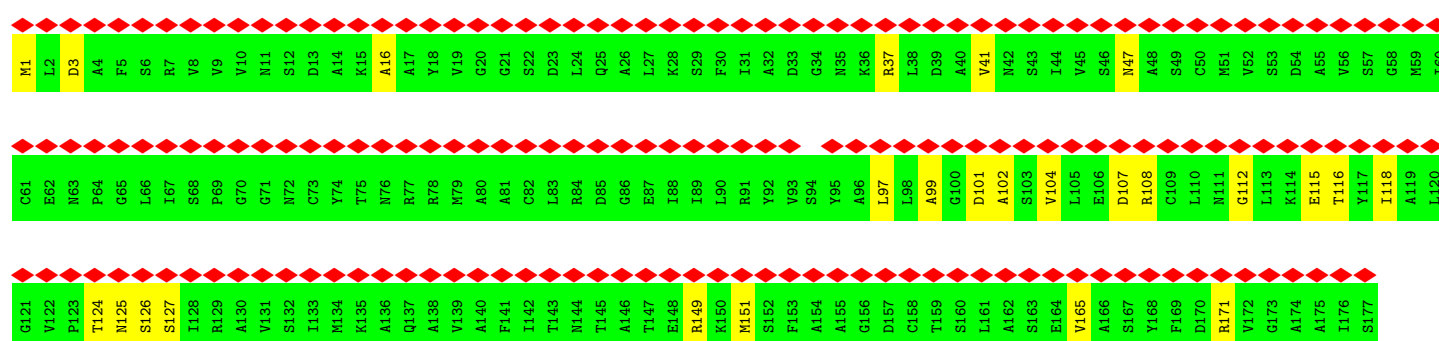
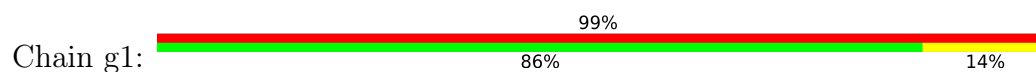
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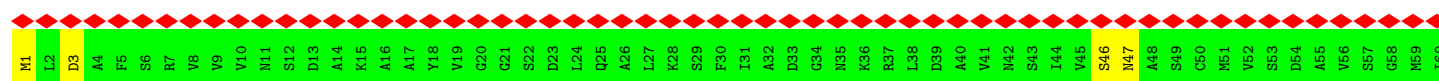
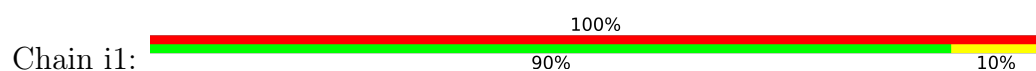
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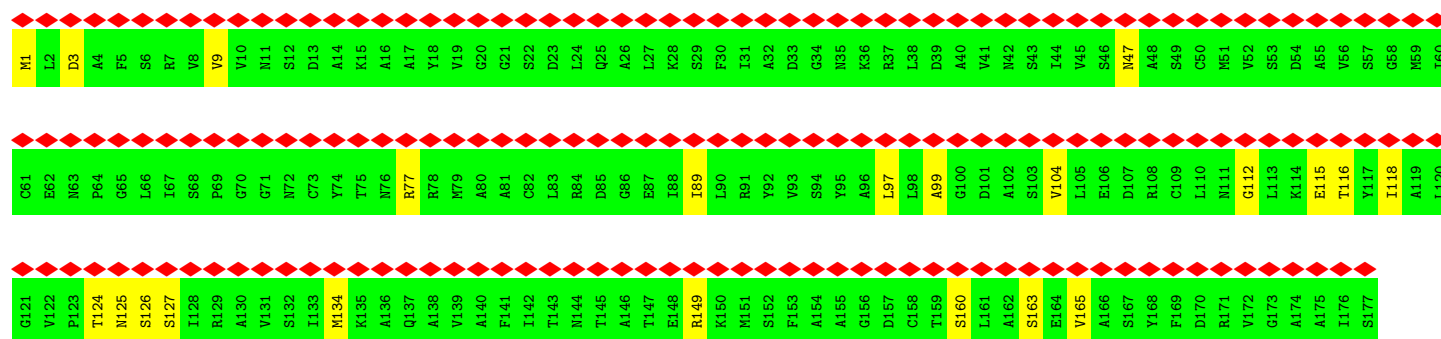
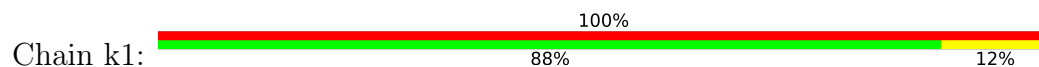


• Molecule 7: B-phycoerythrin beta chain

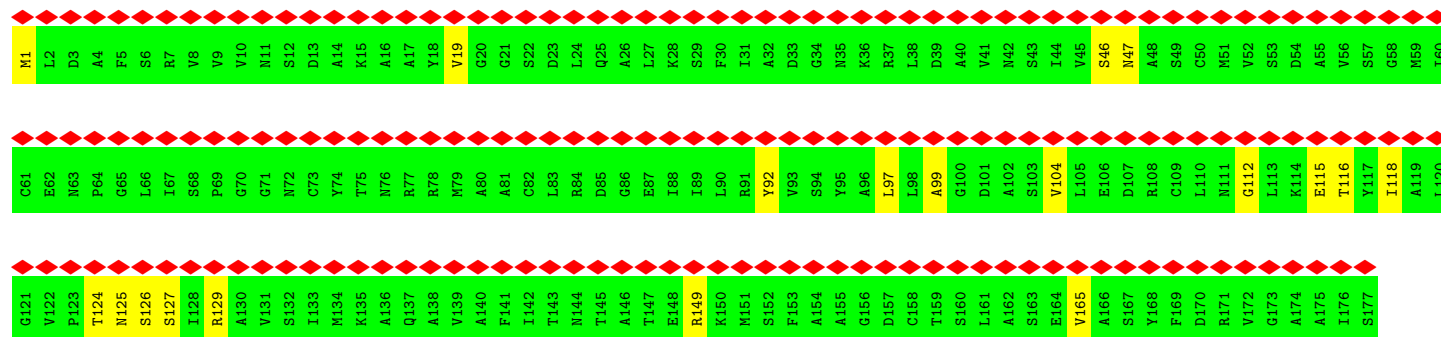
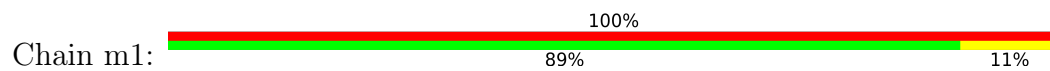




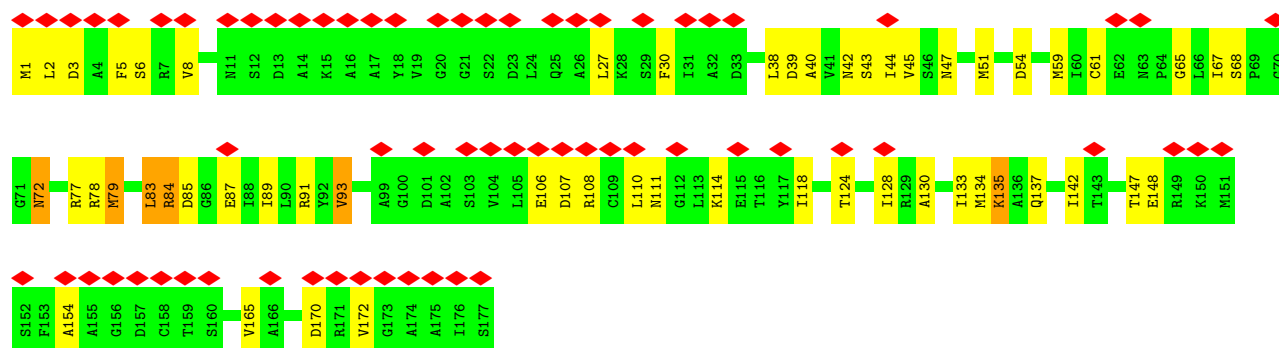
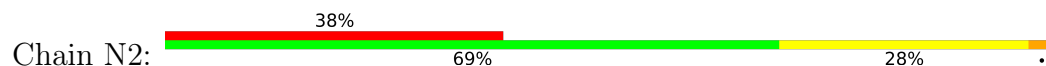
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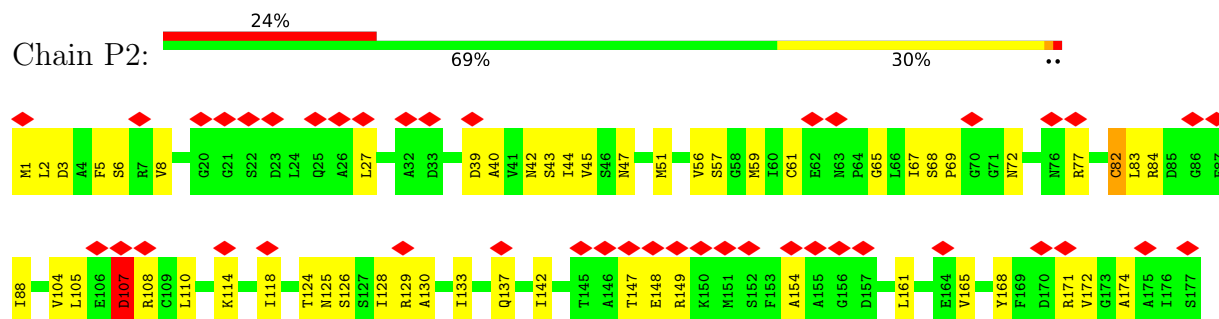


• Molecule 7: B-phycoerythrin beta chain



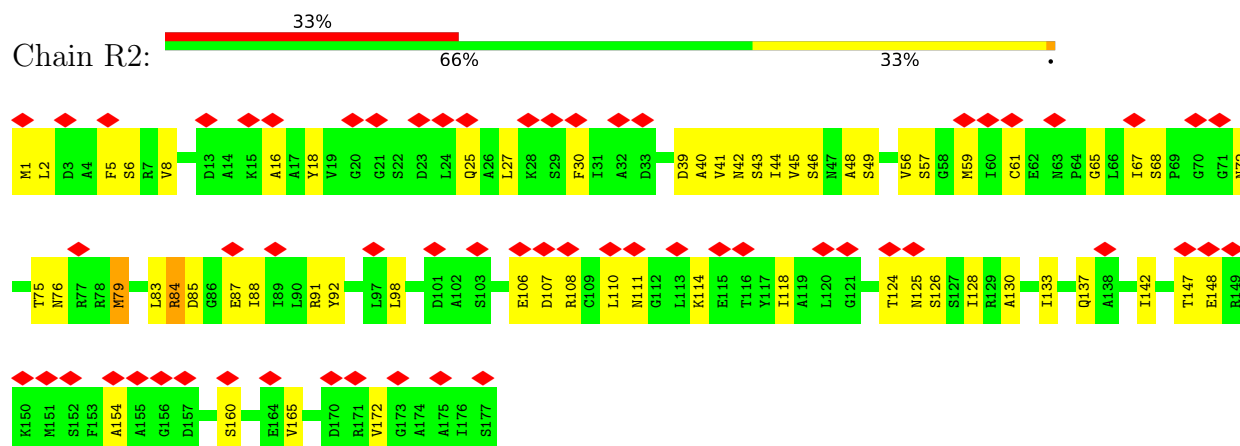
- Molecule 7: B-phycoerythrin beta chain

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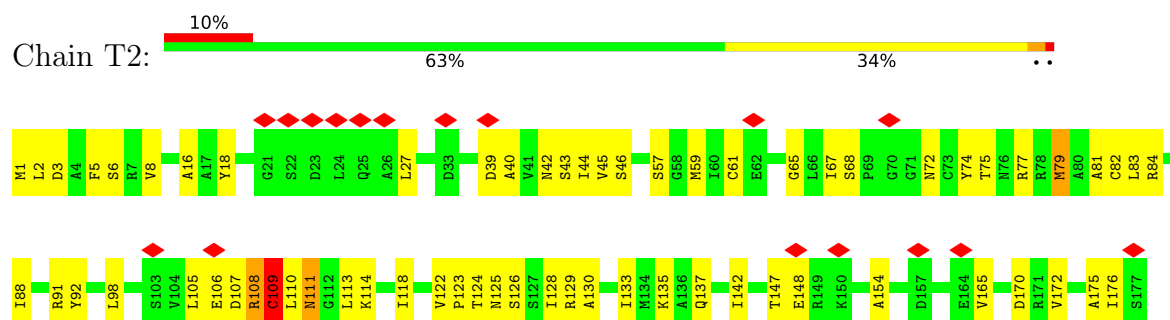
- Molecule 7: B-phycoerythrin beta chain

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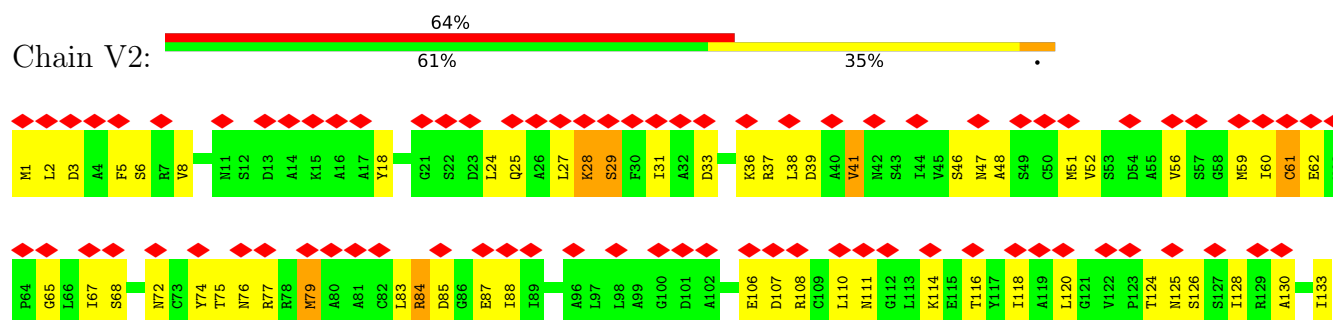
- Molecule 7: B-phycoerythrin beta chain

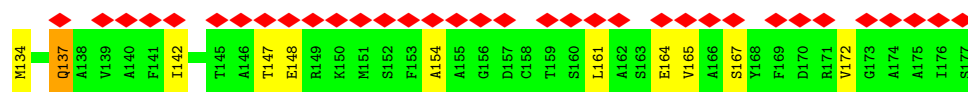
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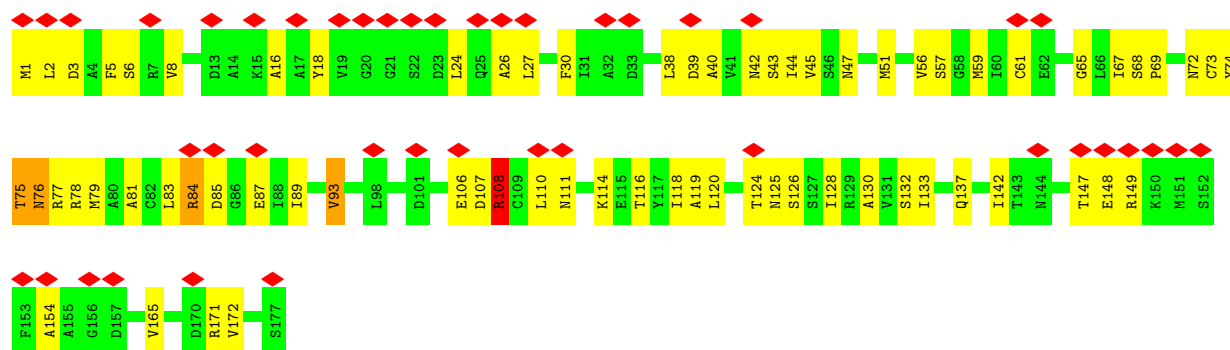
- Molecule 7: B-phycoerythrin beta chain

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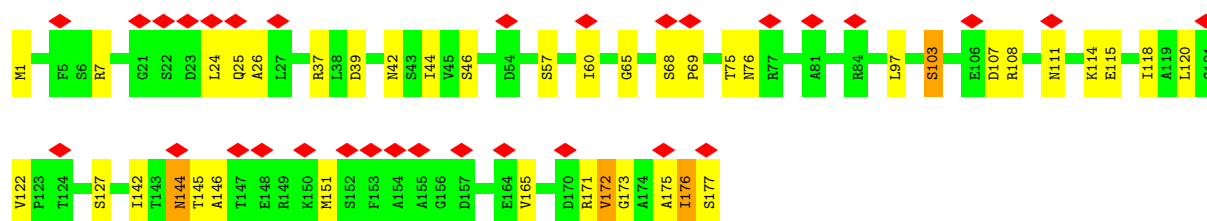
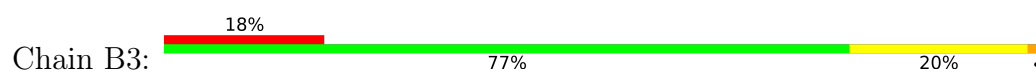




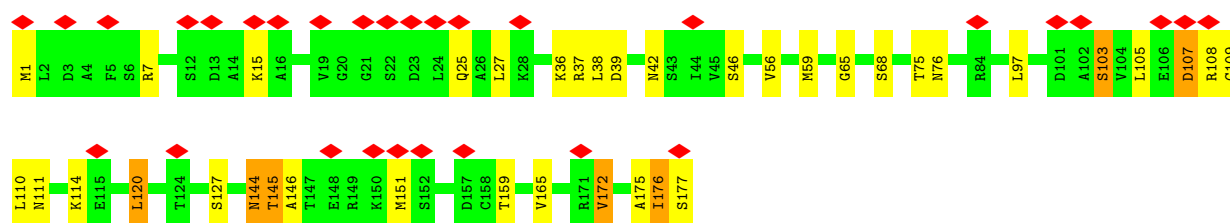
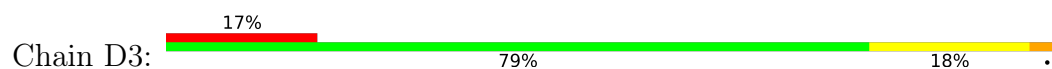
• Molecule 7: B-phycoerythrin beta chain



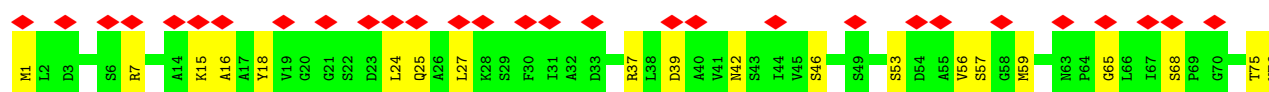
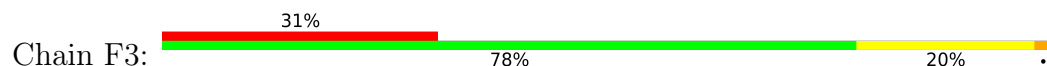
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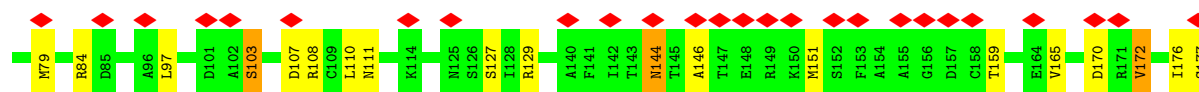


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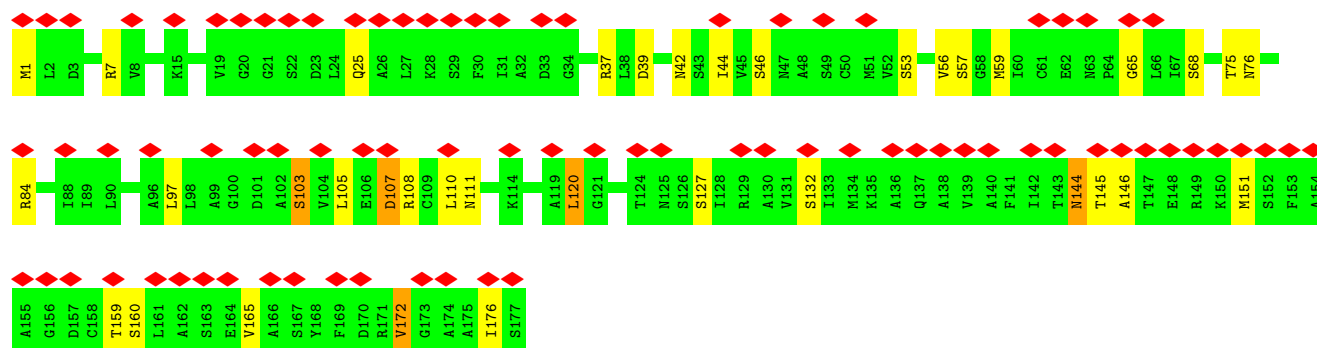
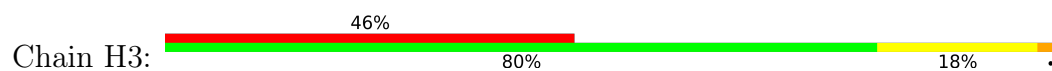


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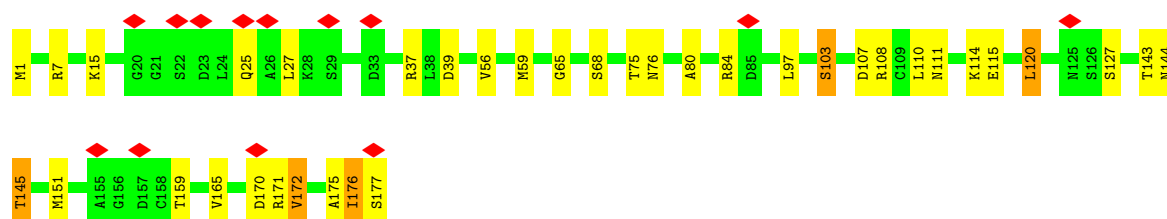
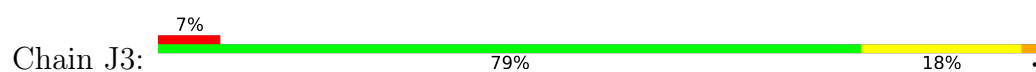




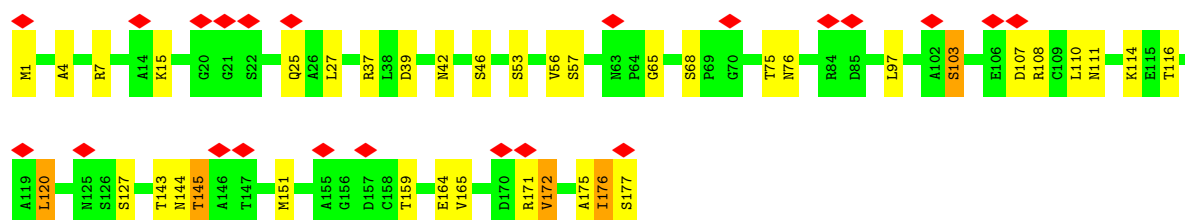
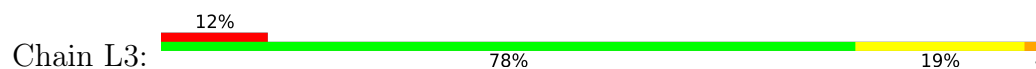
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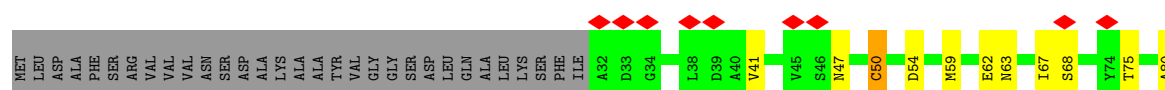
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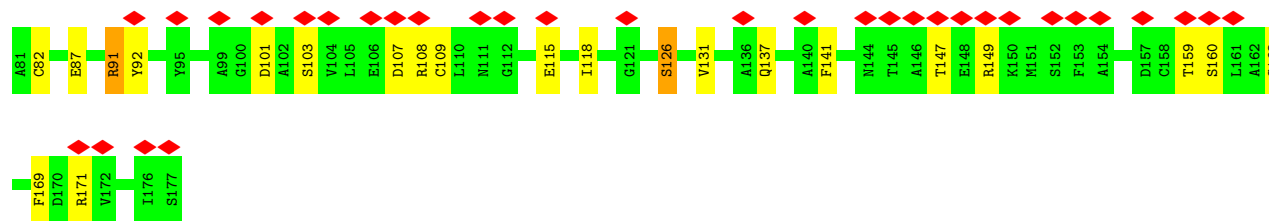


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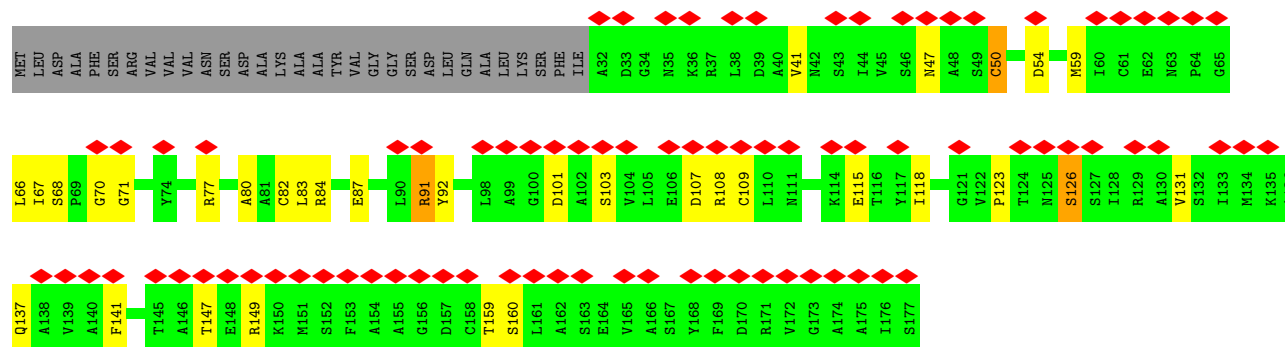


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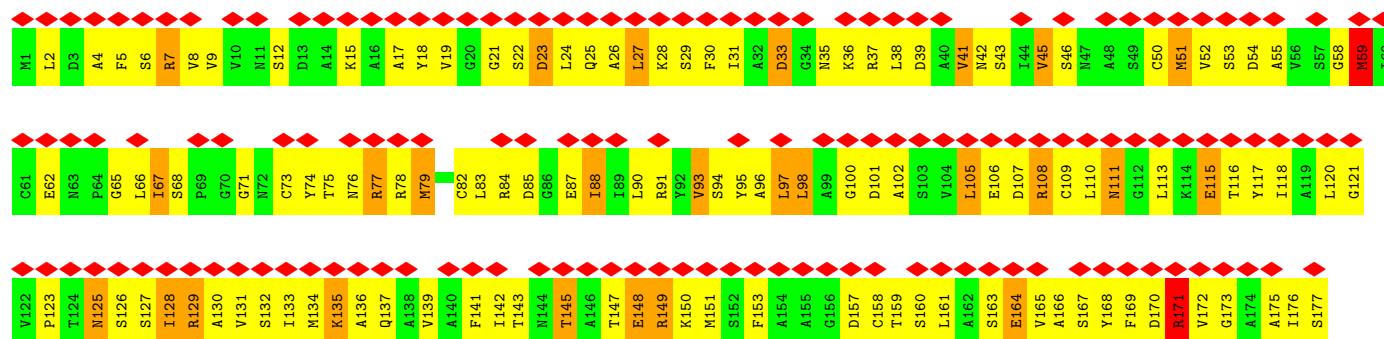
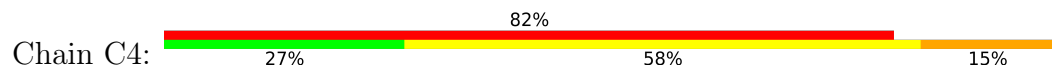




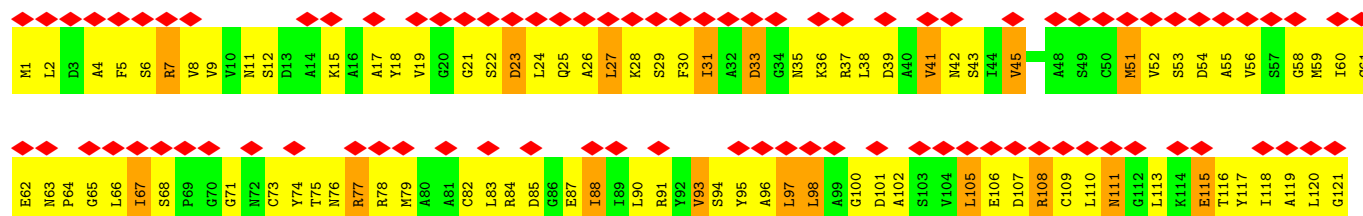
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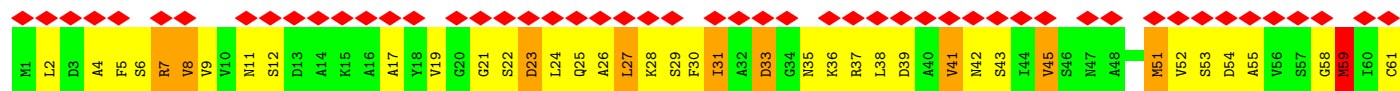


• Molecule 7: B-phycoerythrin beta chain





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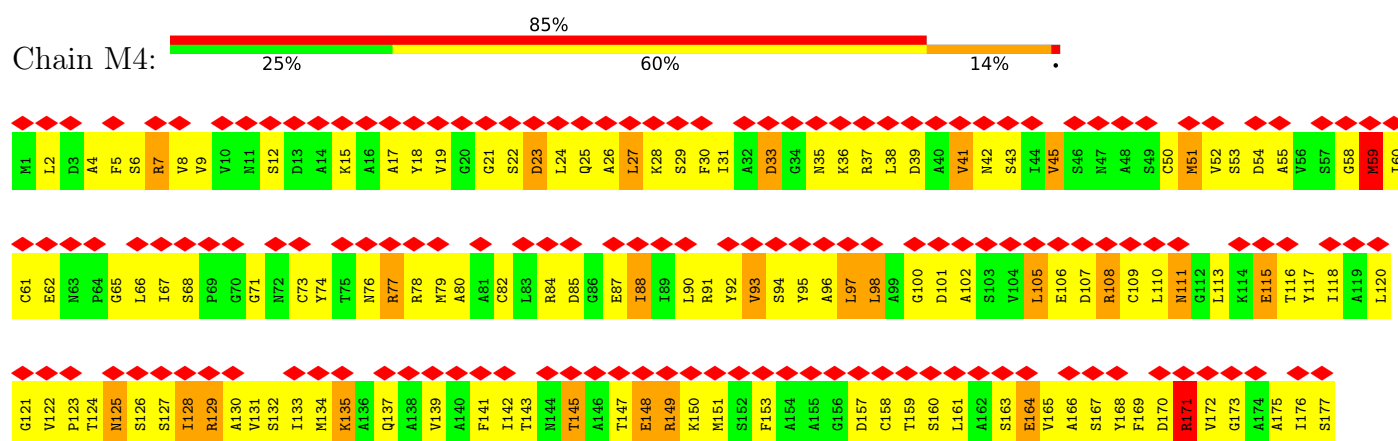
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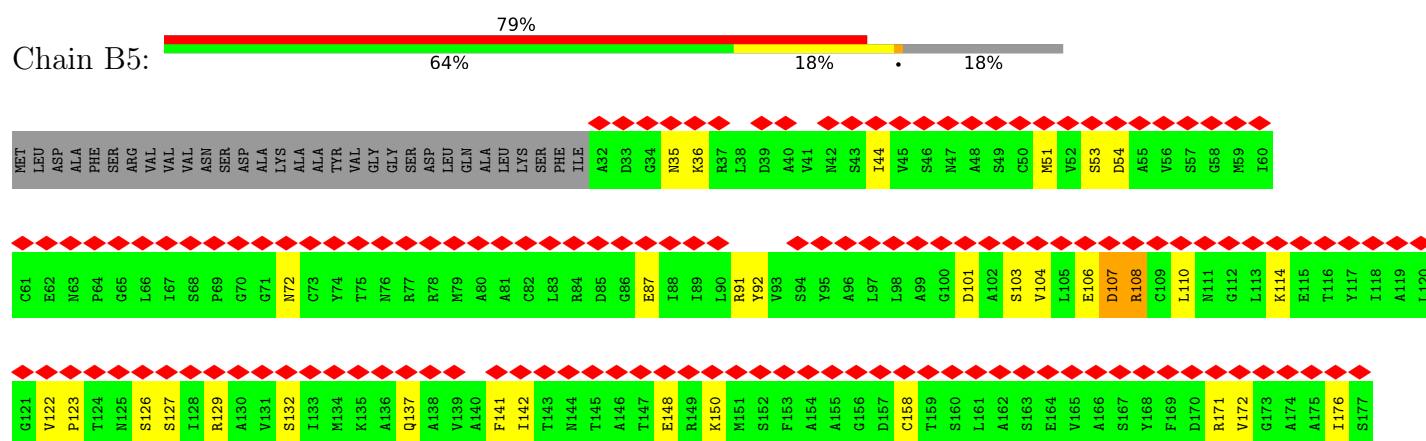
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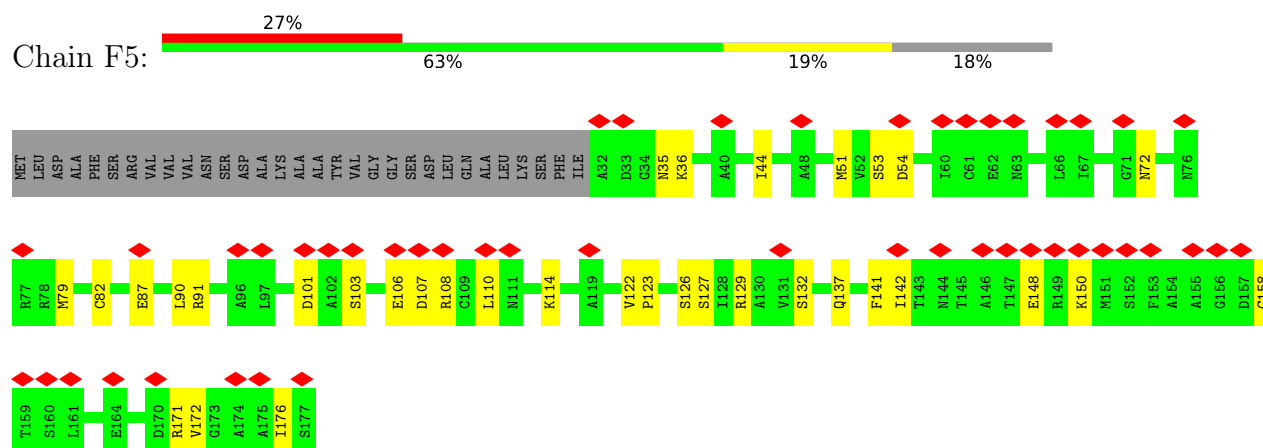
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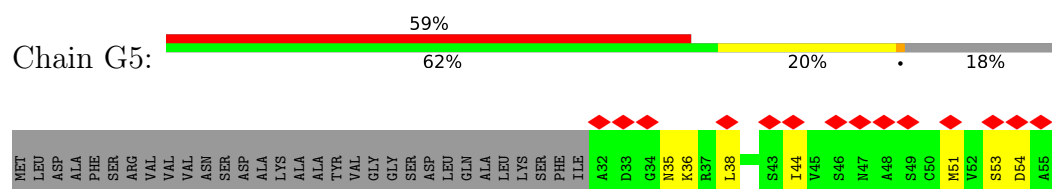
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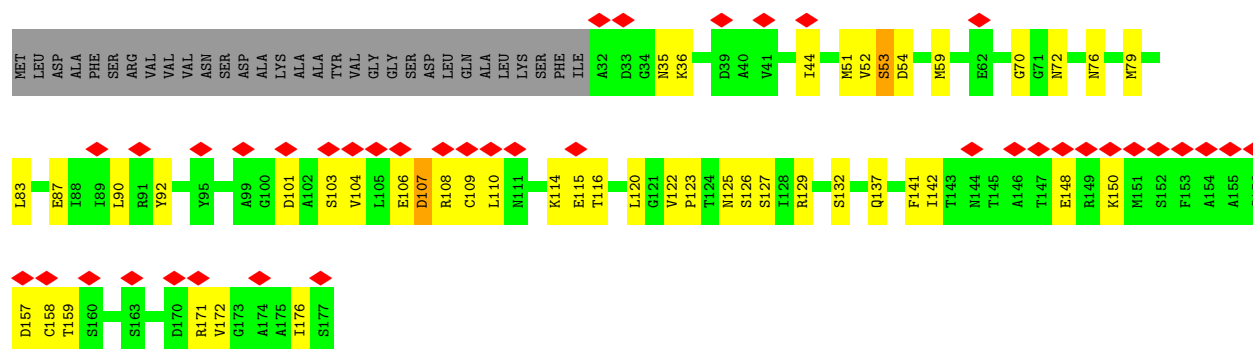
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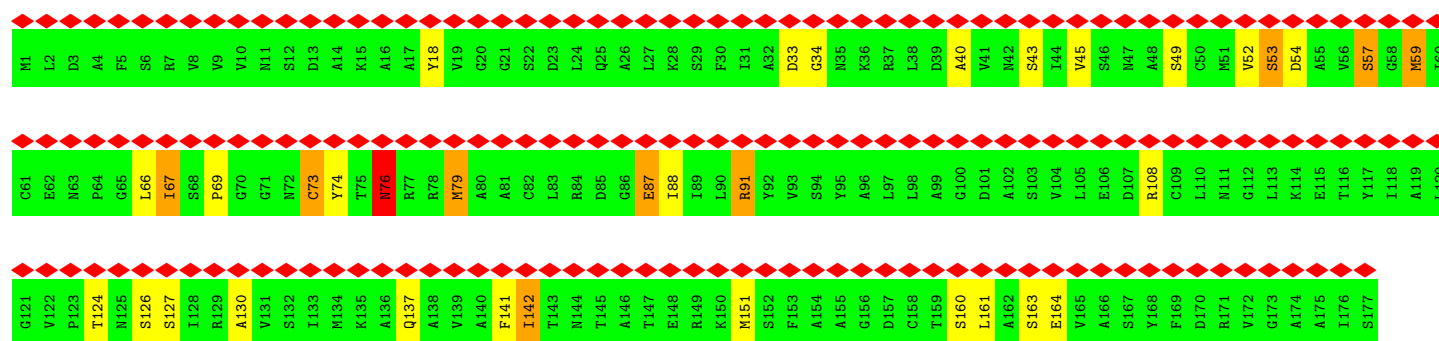
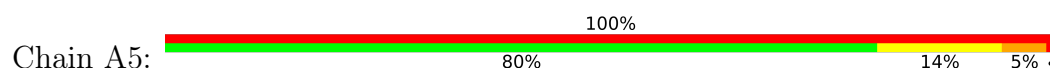
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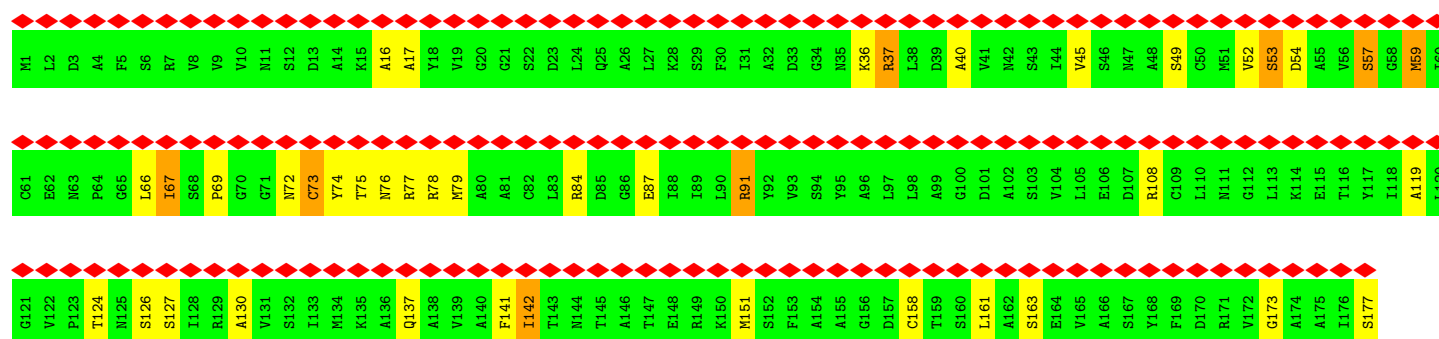
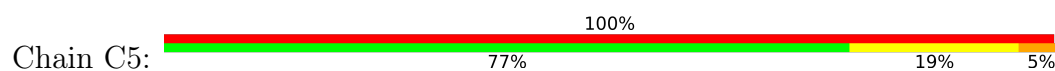




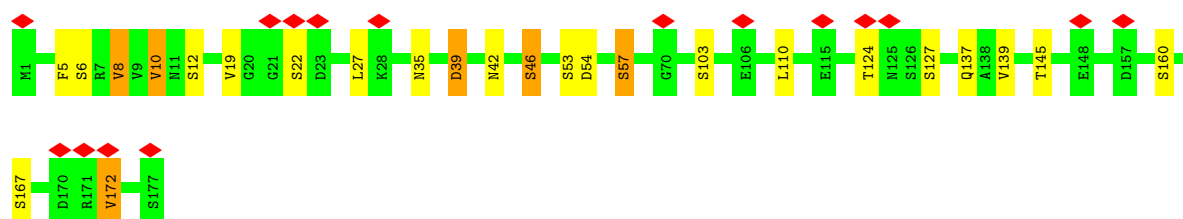
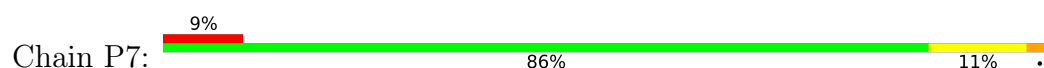
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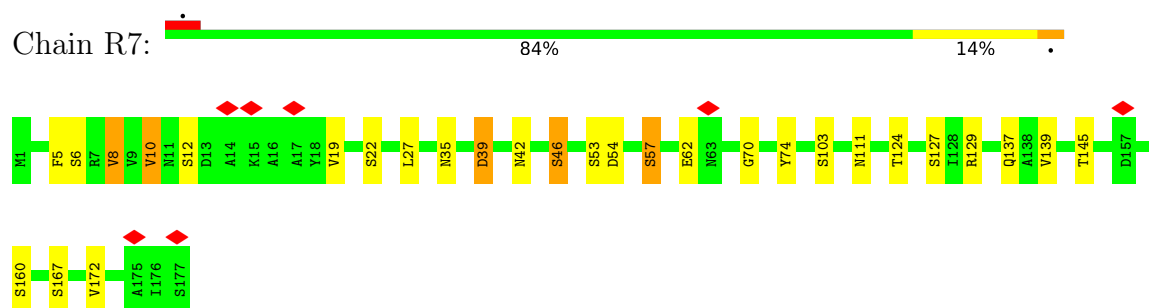
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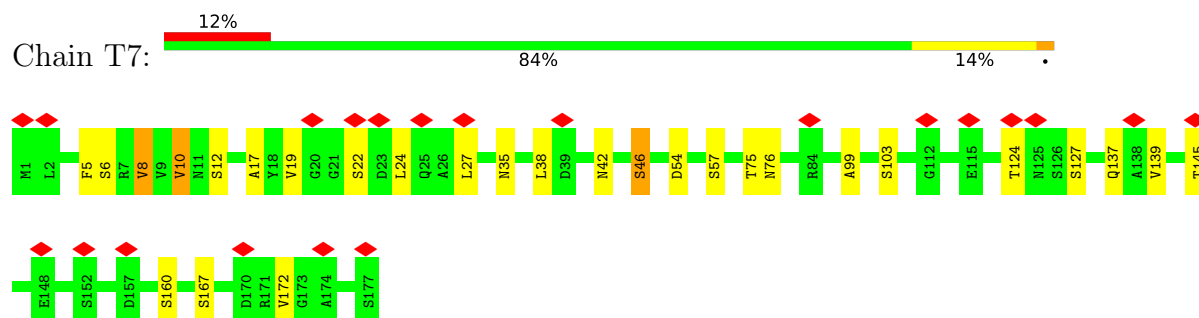
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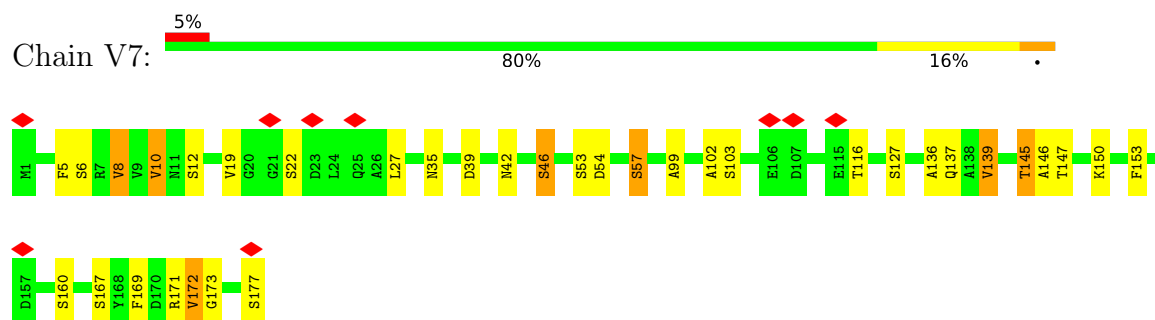
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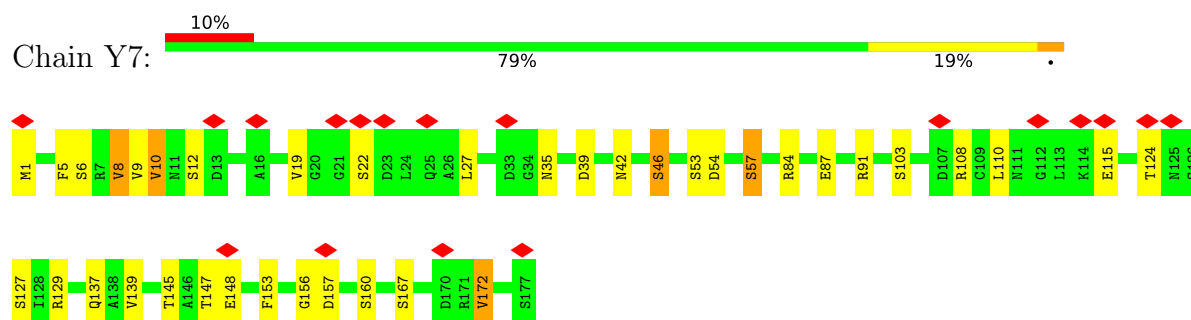
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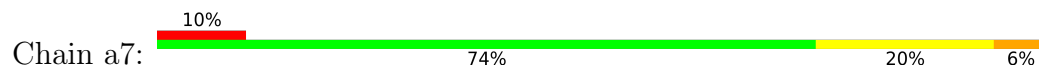
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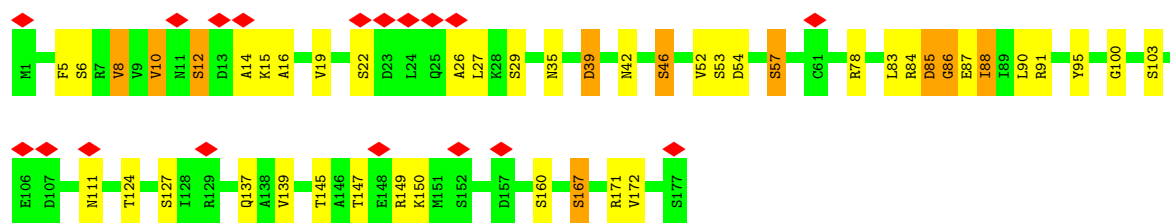


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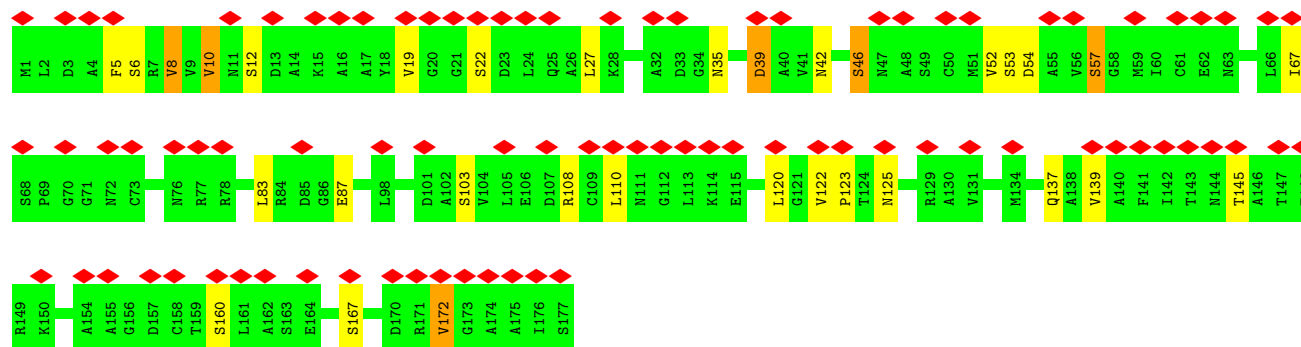
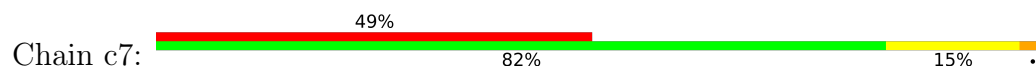


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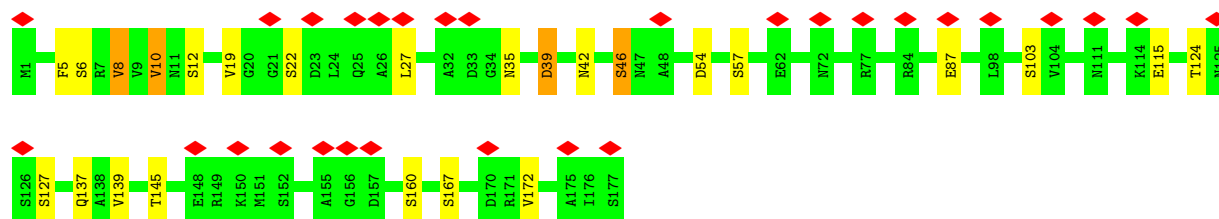
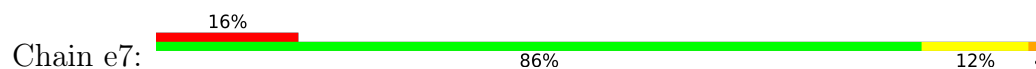




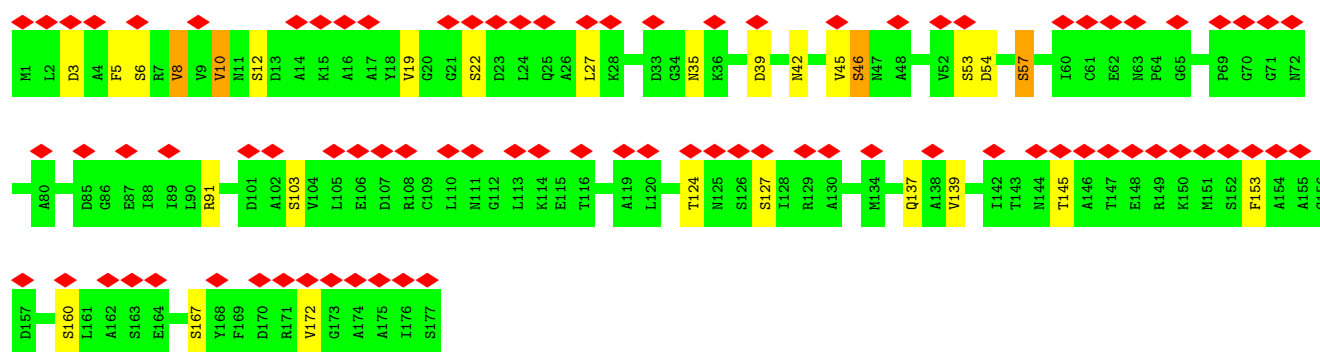
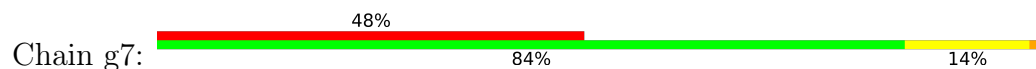
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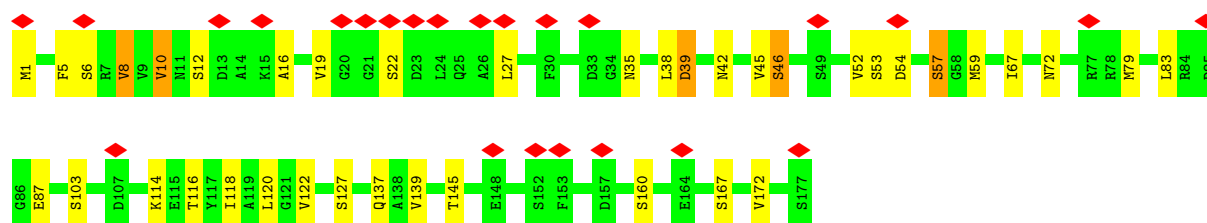
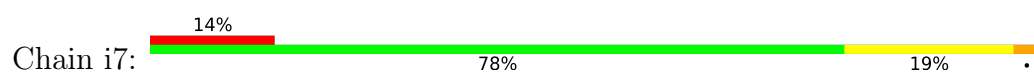
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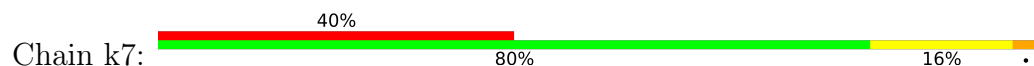
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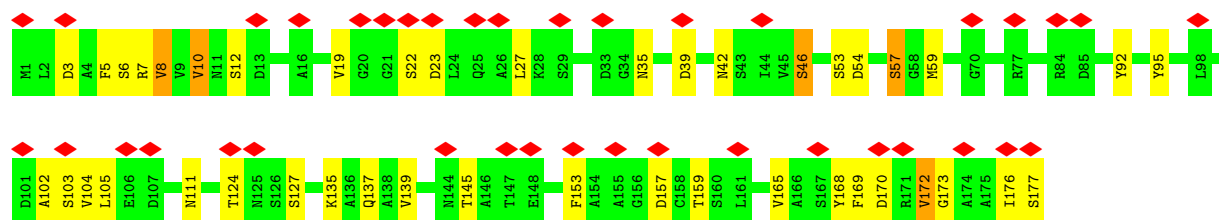
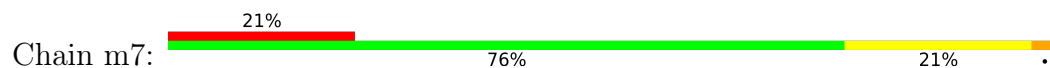
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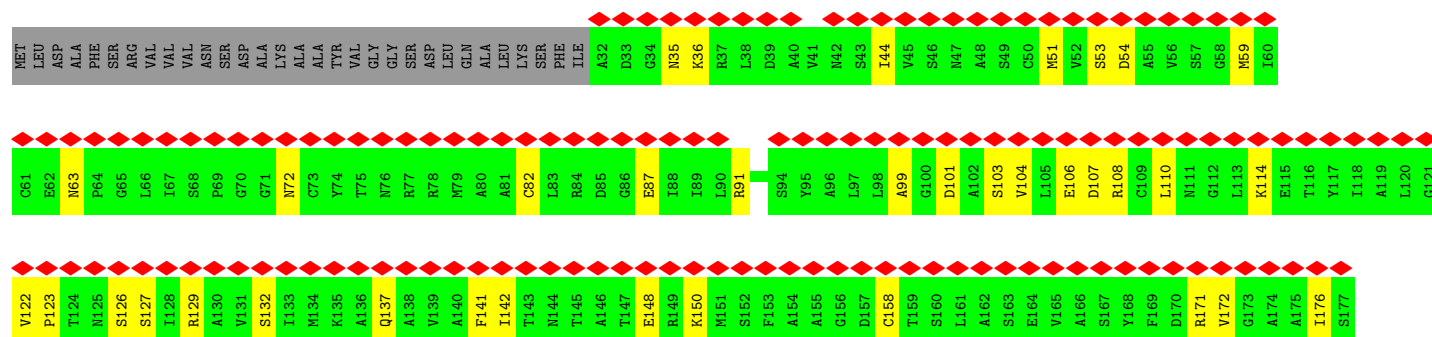
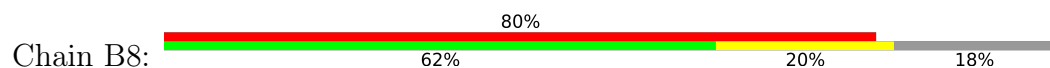
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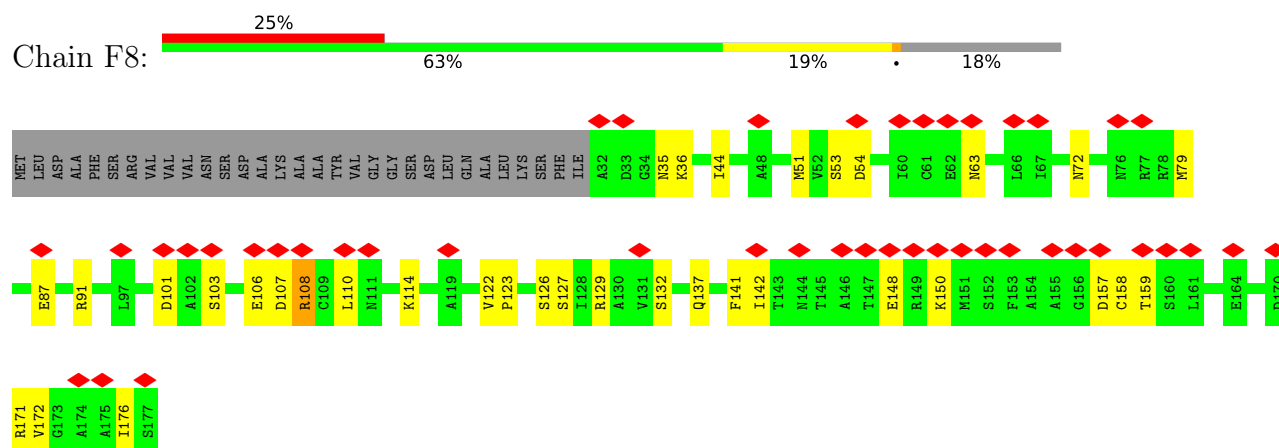
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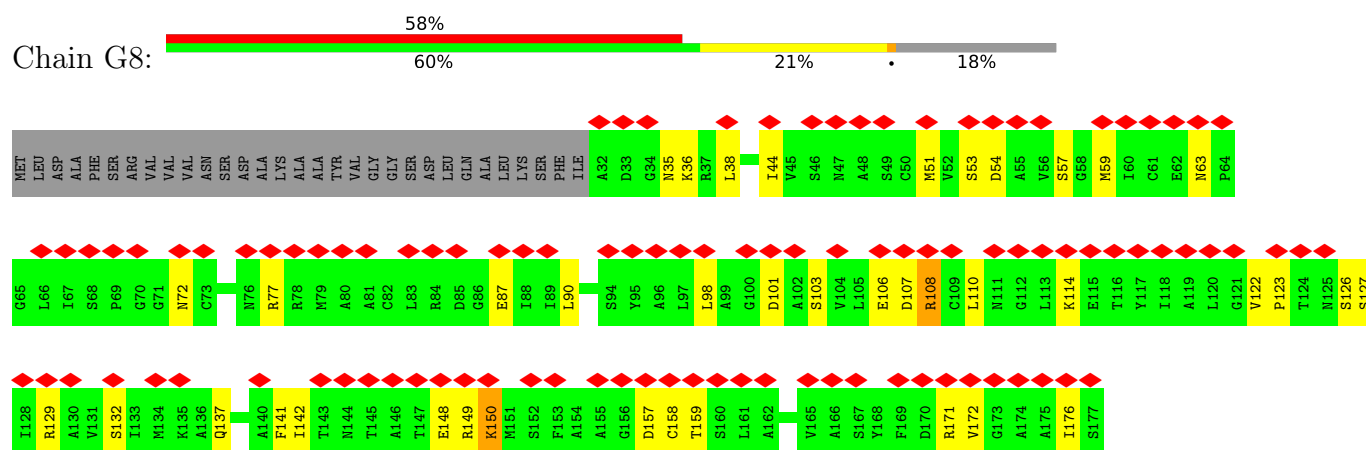
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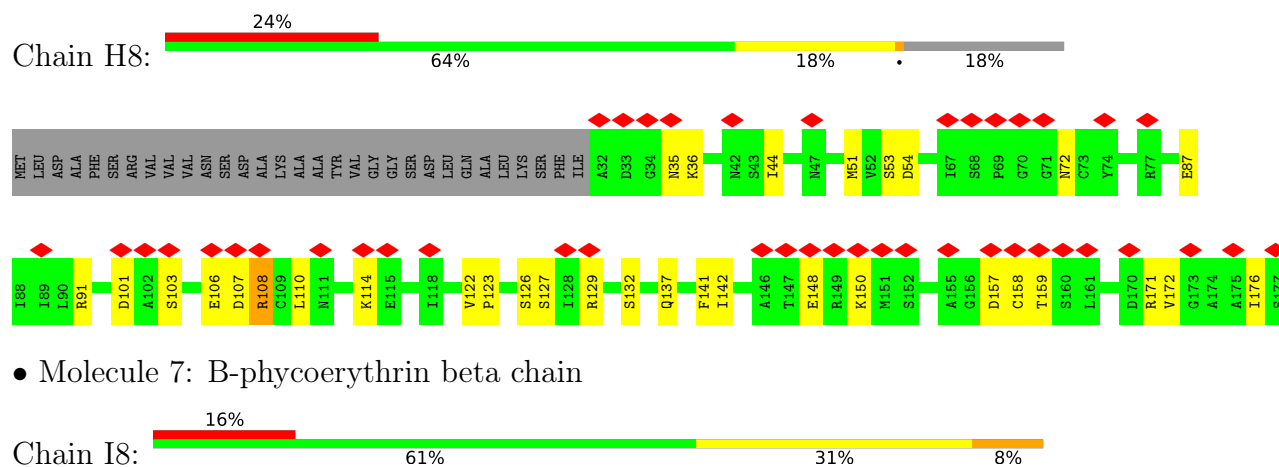
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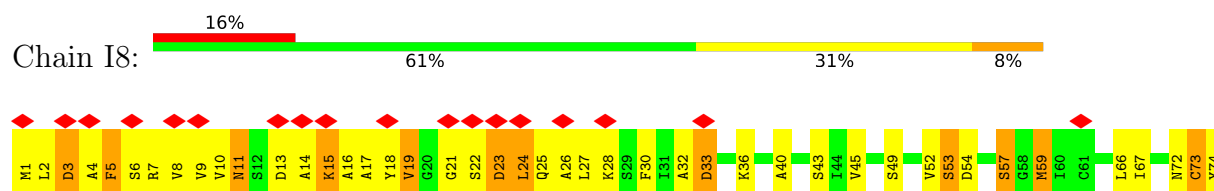
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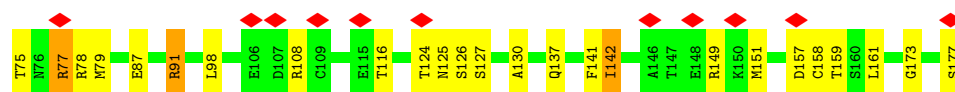


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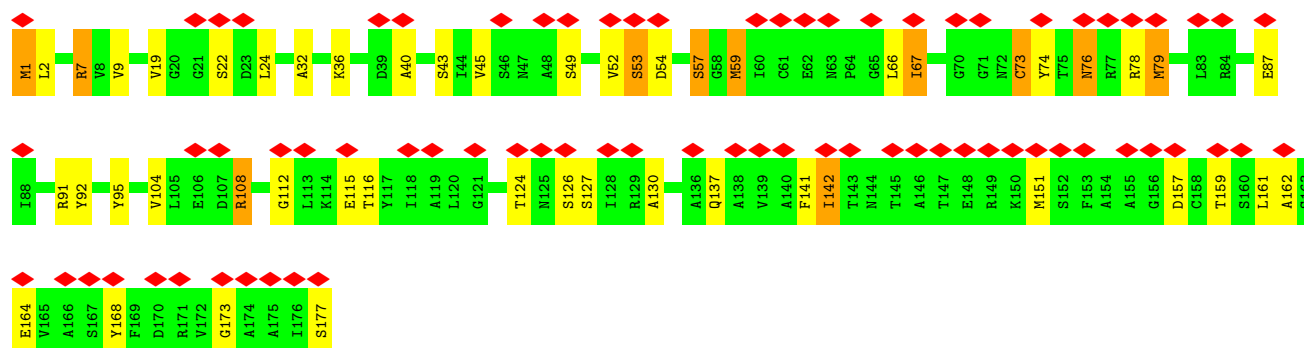
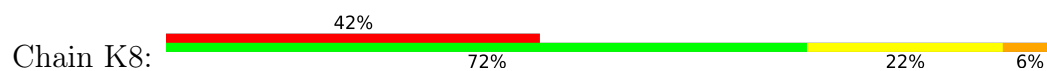


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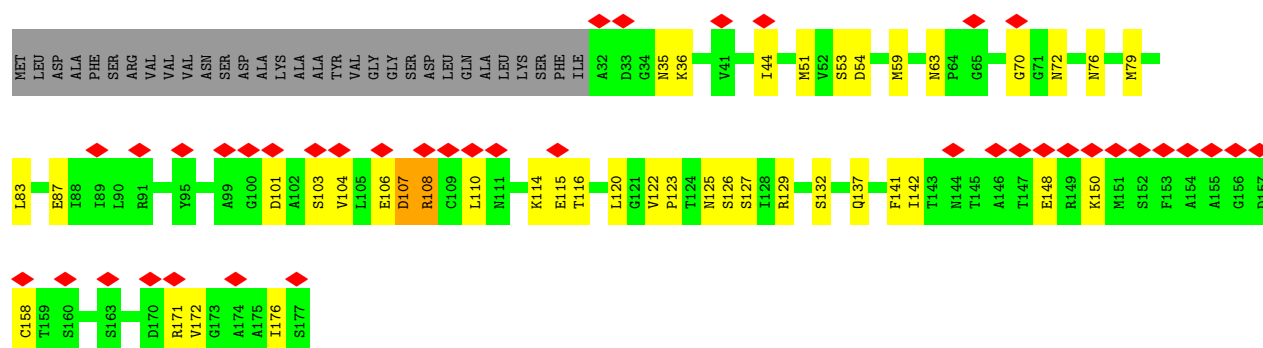




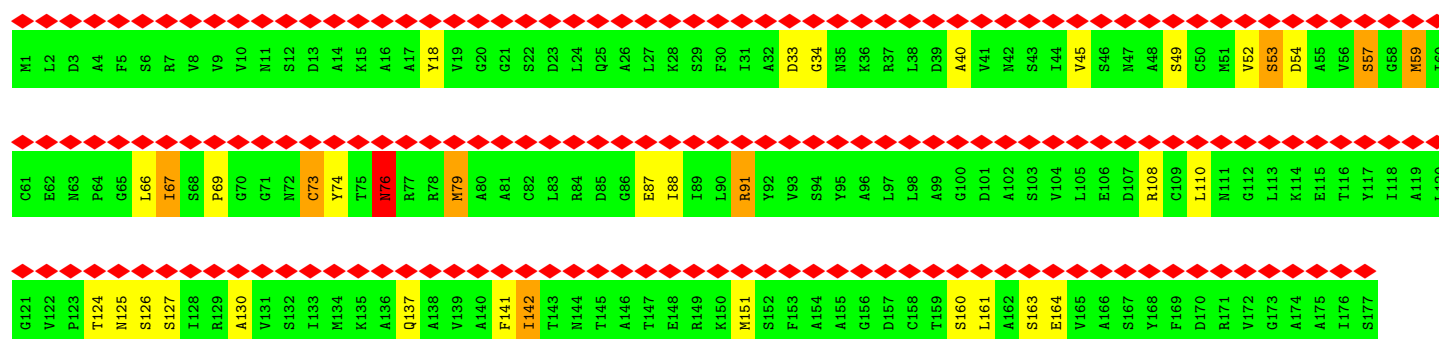
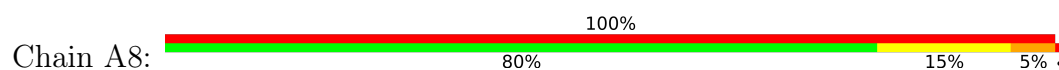
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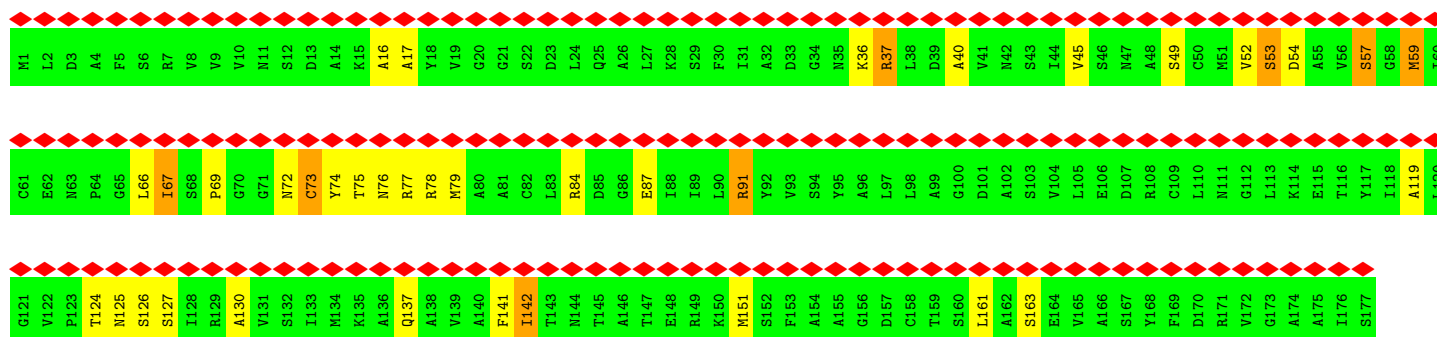


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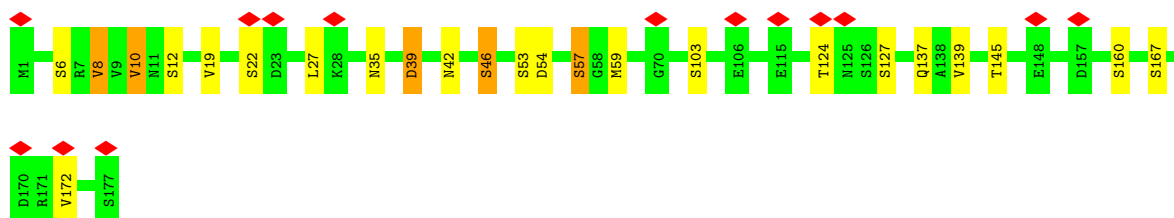
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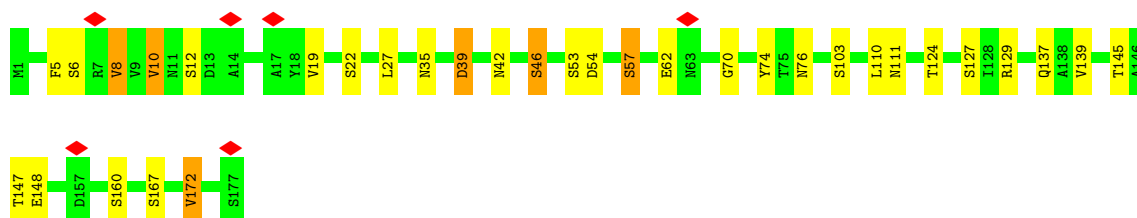
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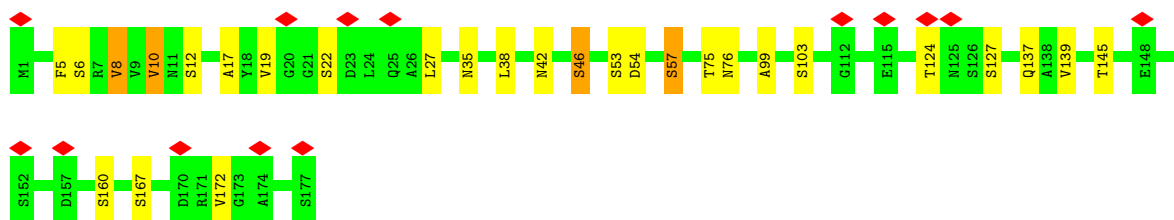
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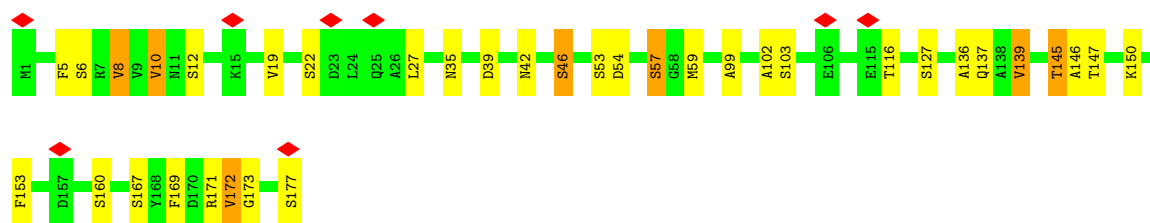
• Molecule 7: B-phycoerythrin beta chain

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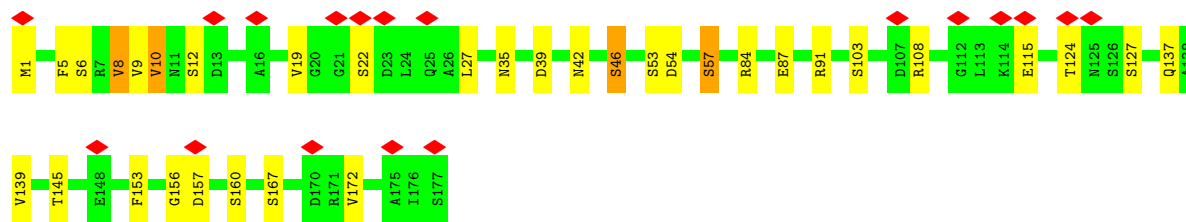
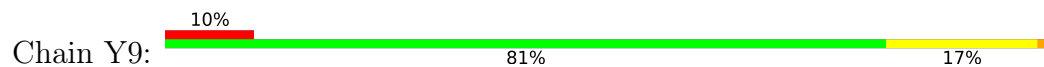


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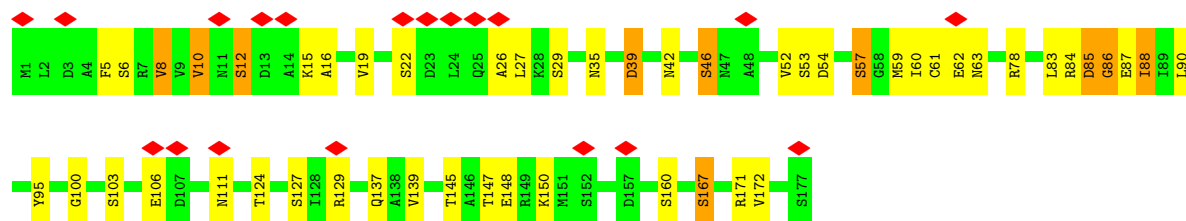
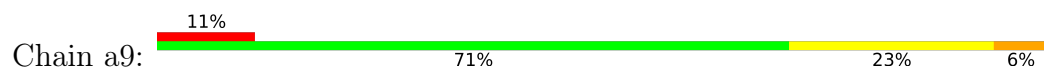
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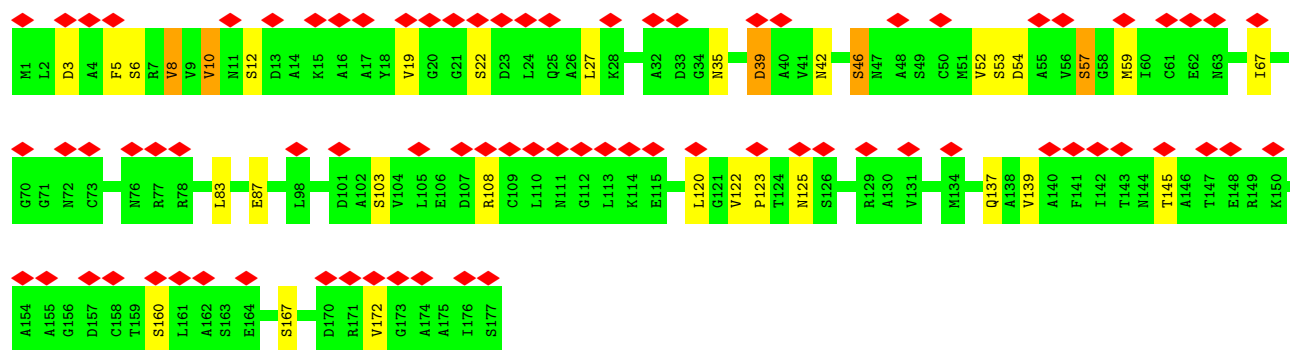
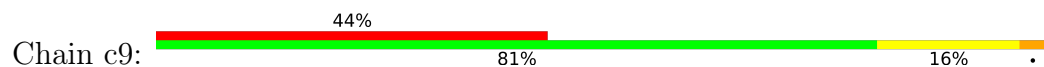
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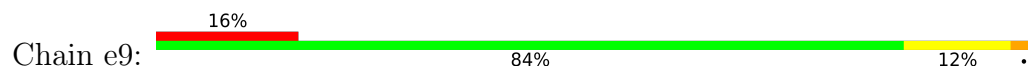
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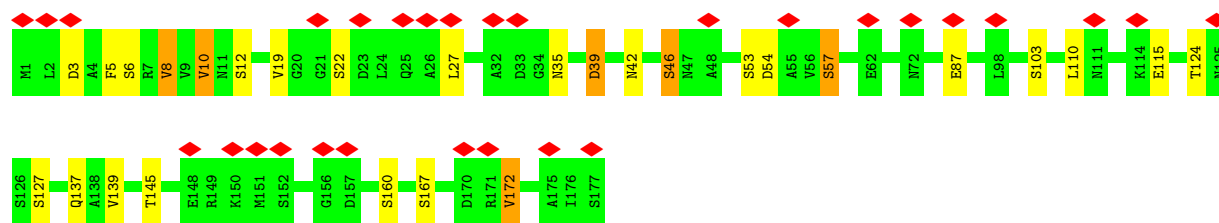


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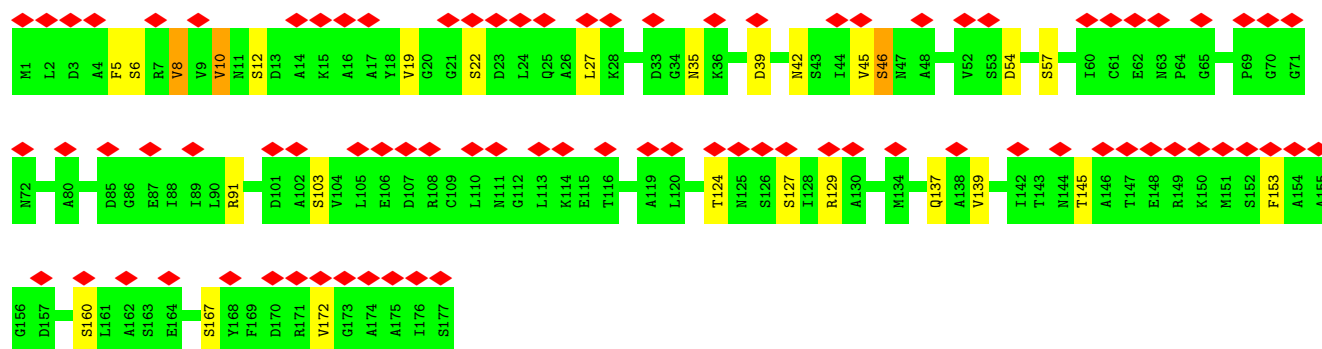
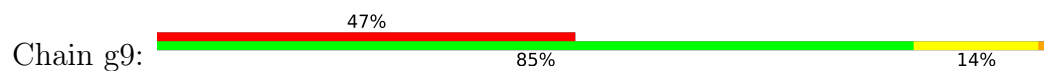


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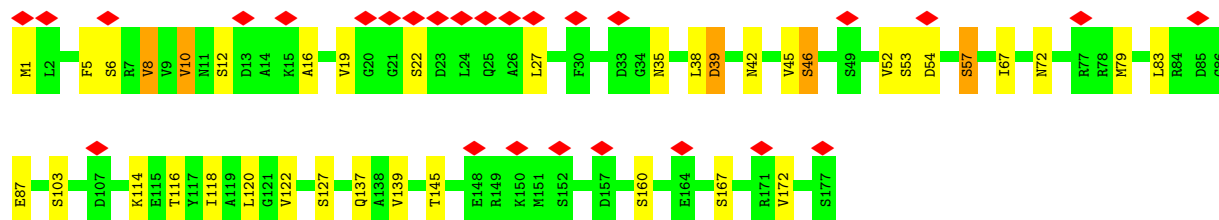
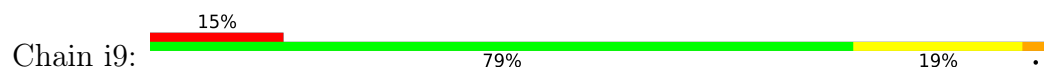




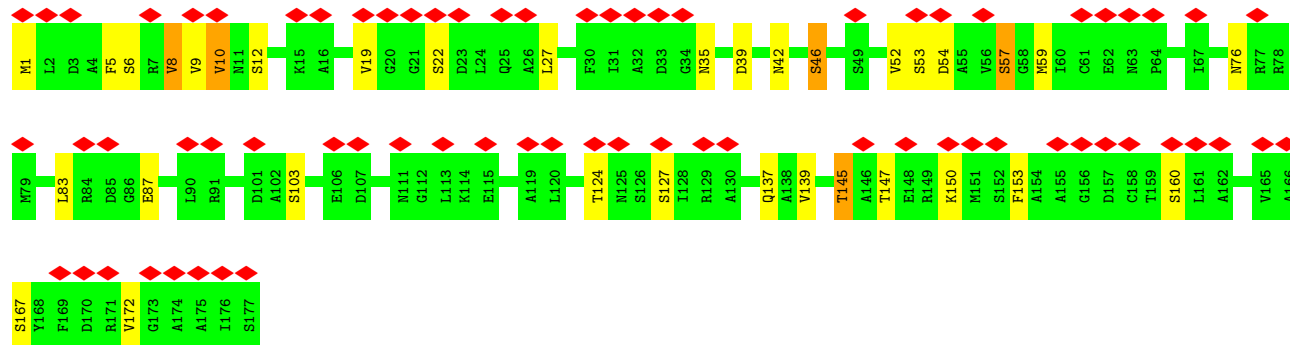
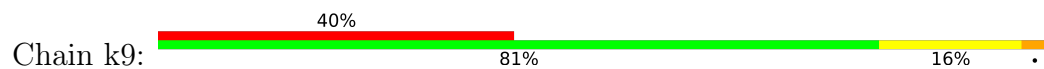
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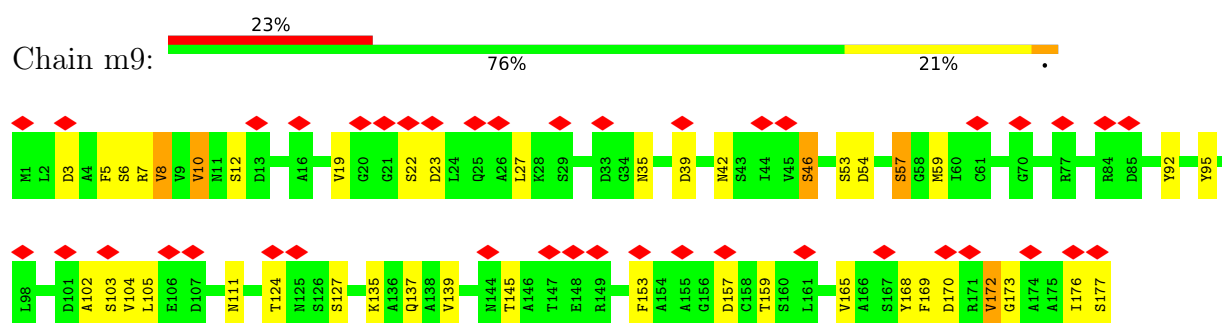
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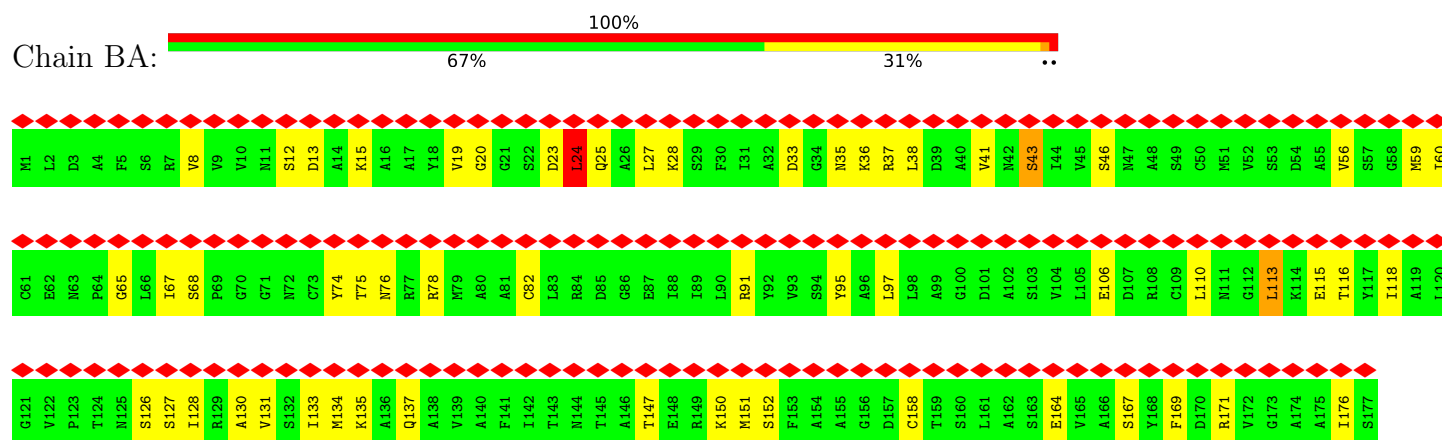
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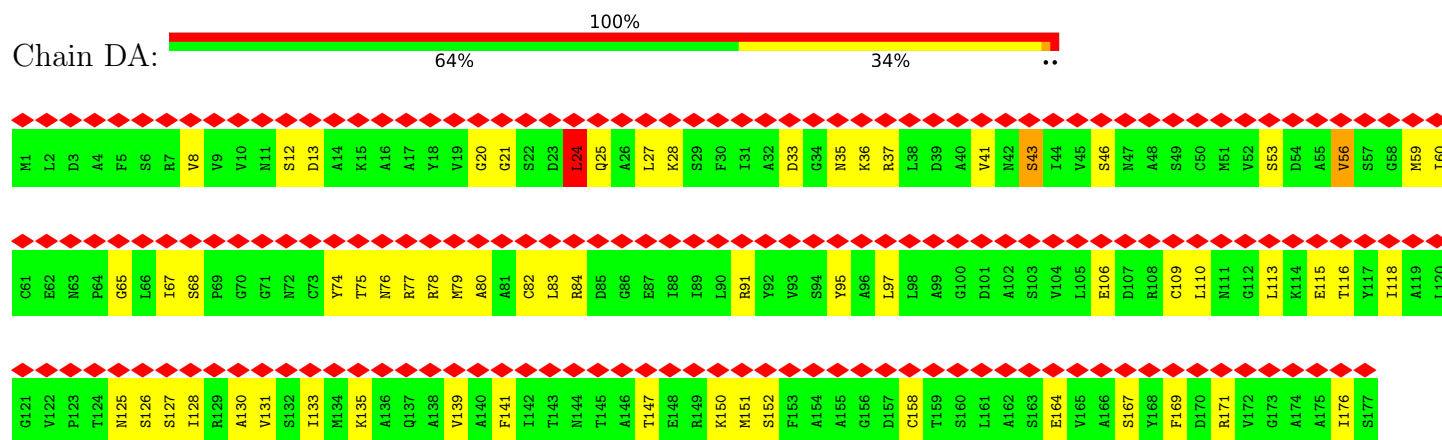
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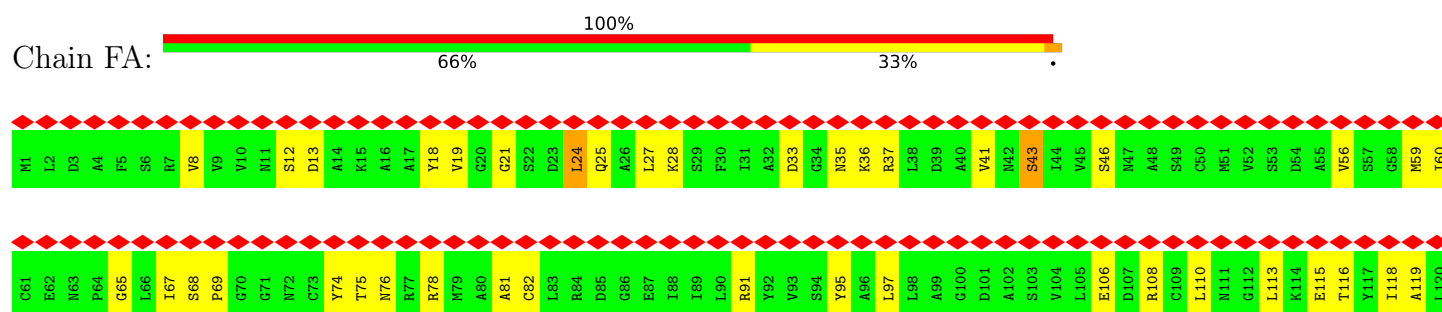
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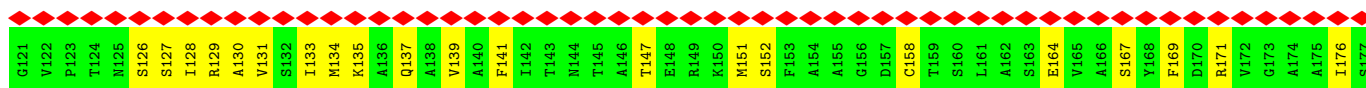




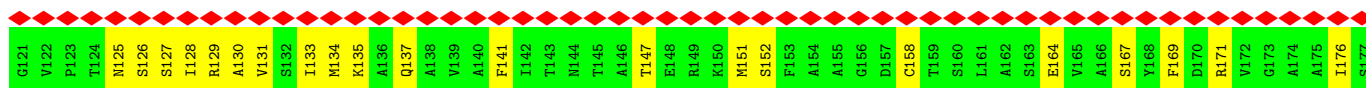
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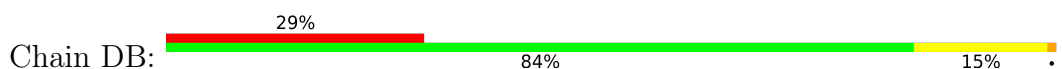
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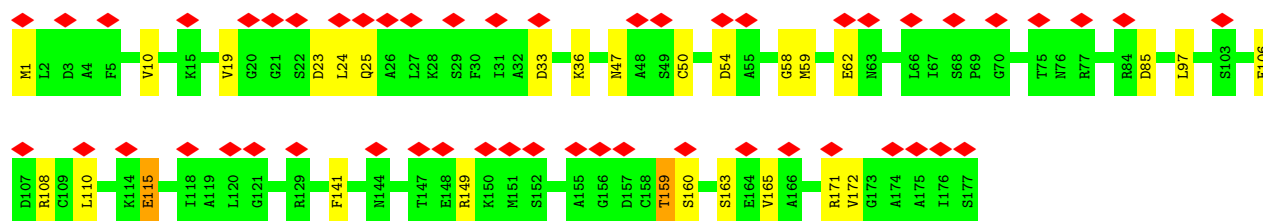


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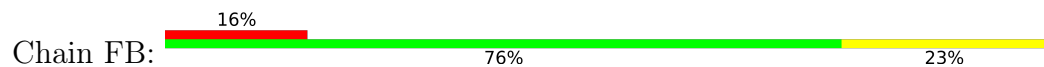


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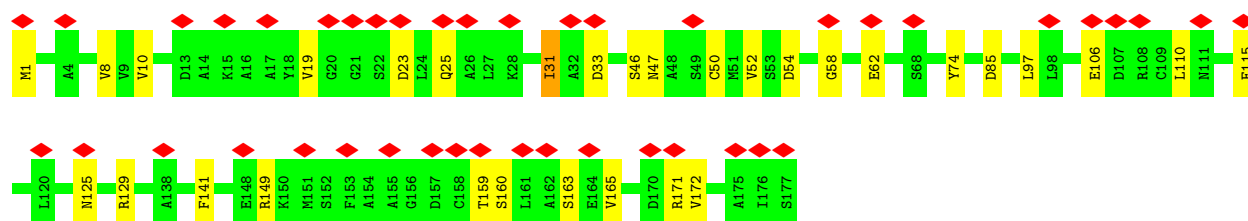
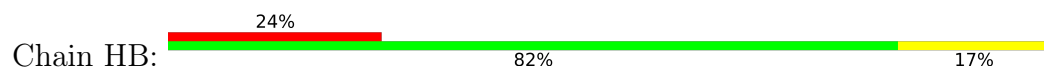




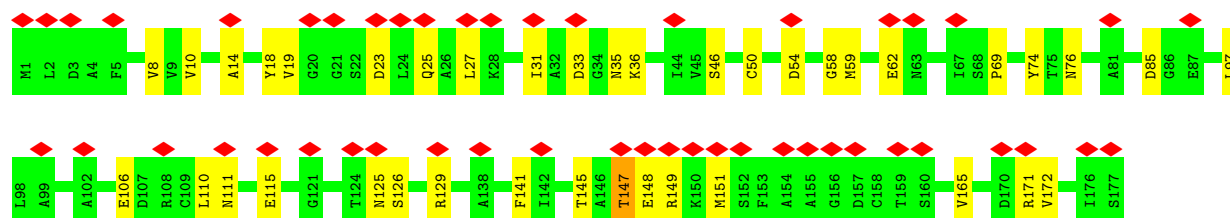
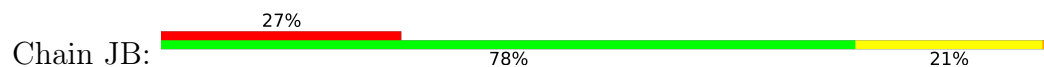
• Molecule 7: B-phycoerythrin beta chain



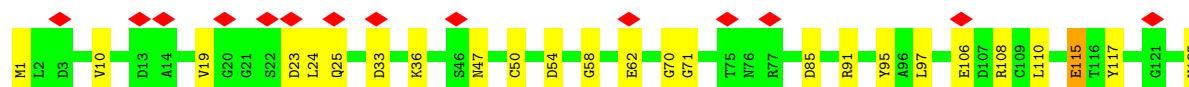
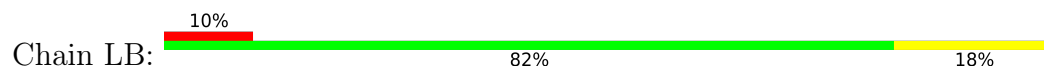
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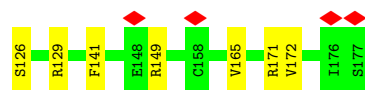


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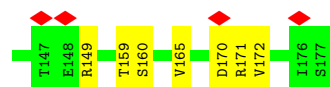
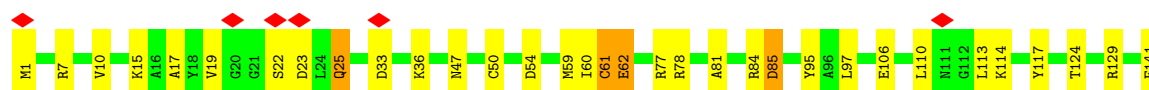
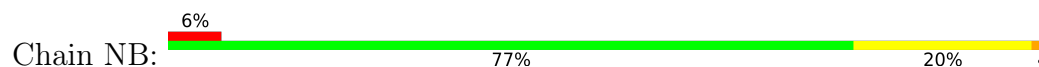


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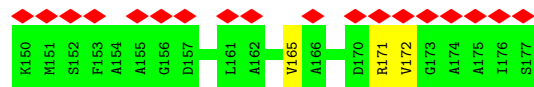
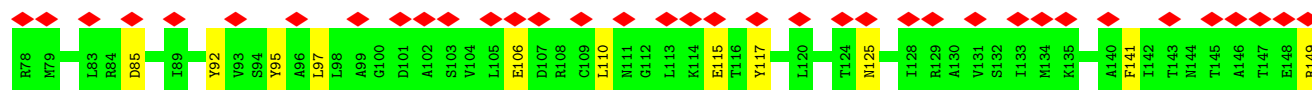
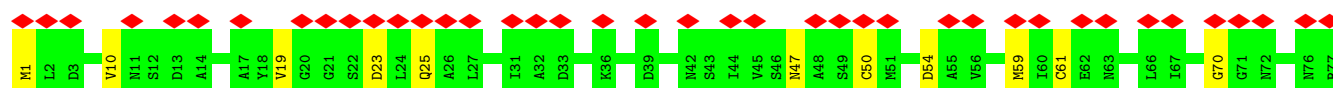
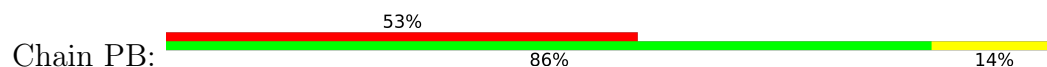




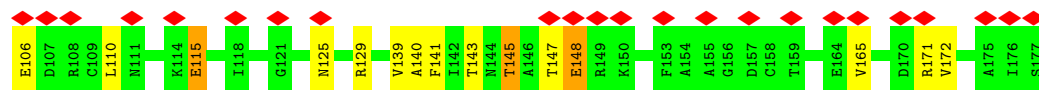
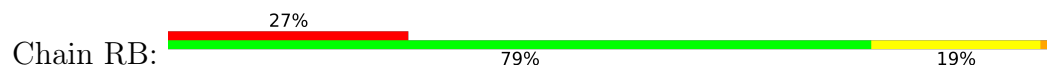
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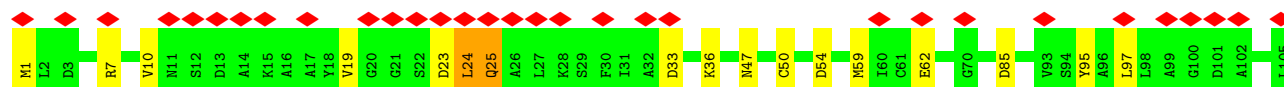
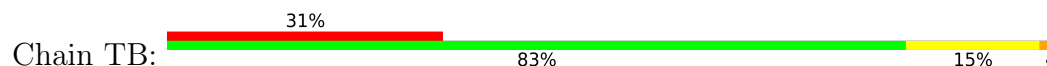
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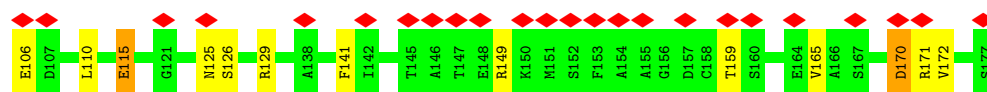


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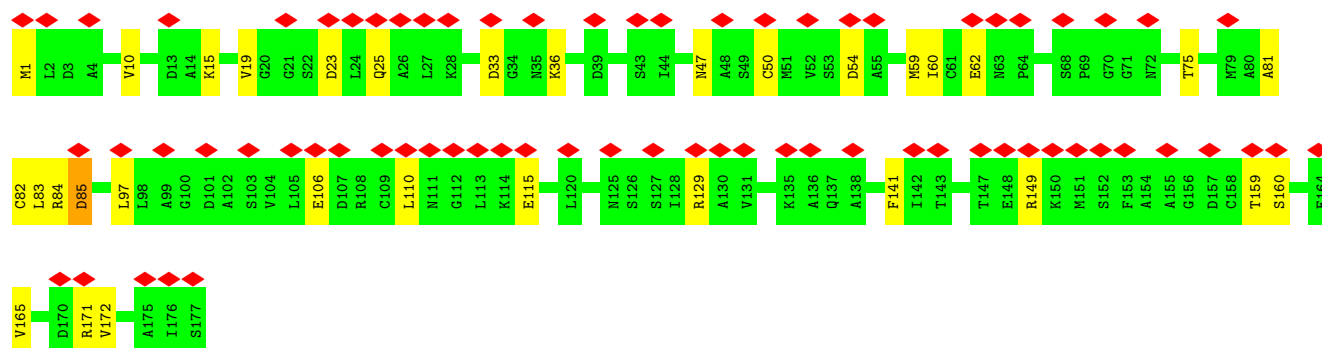
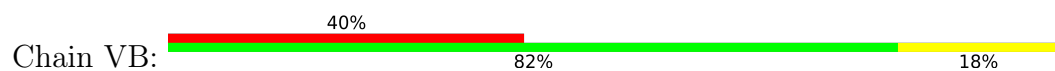


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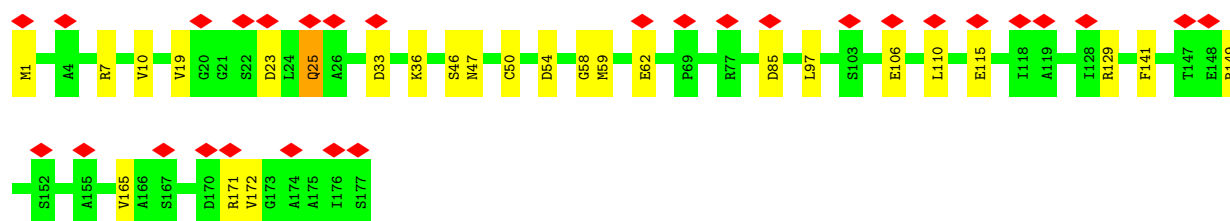
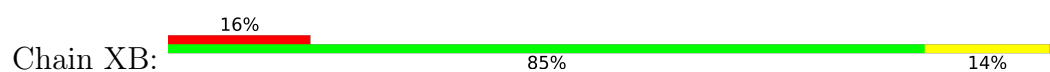




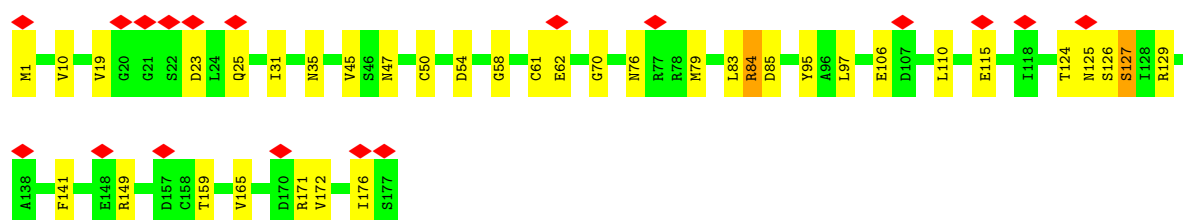
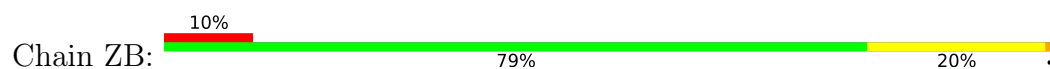
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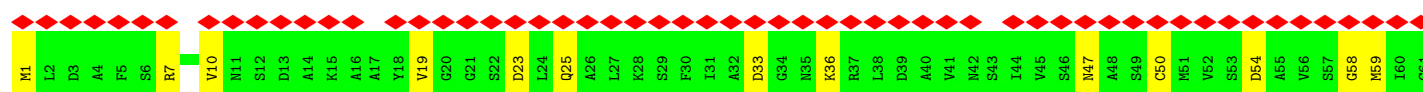
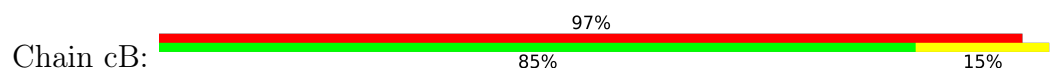
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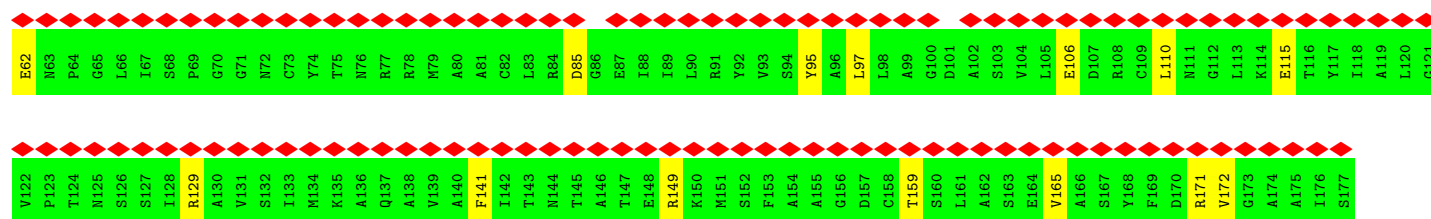


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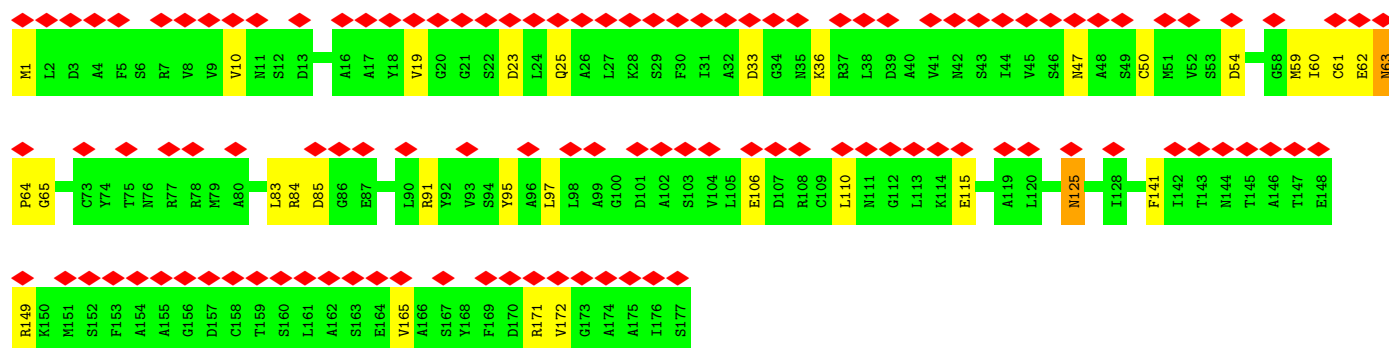
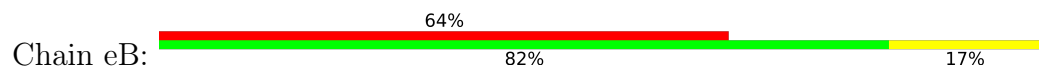


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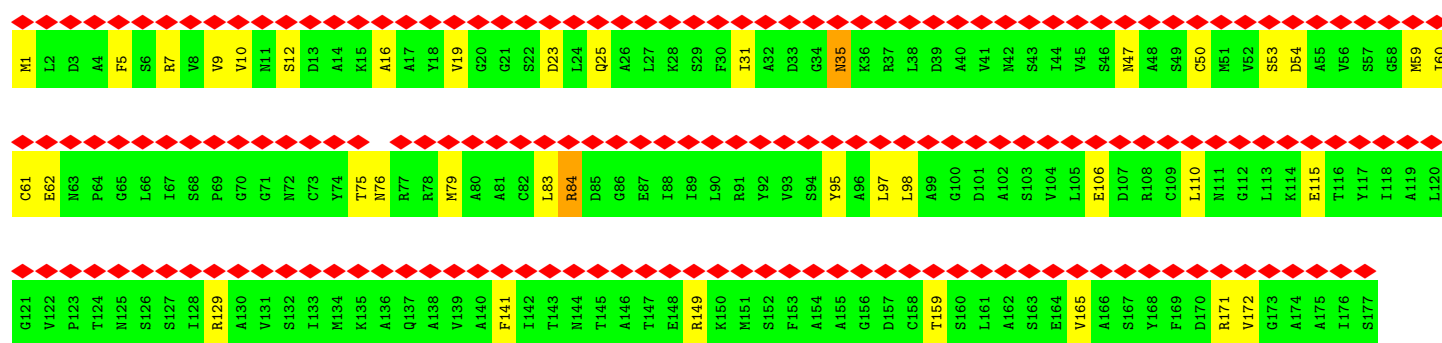
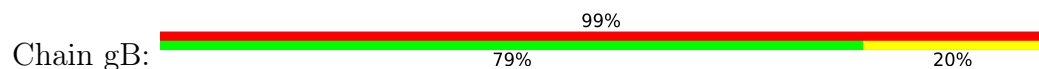




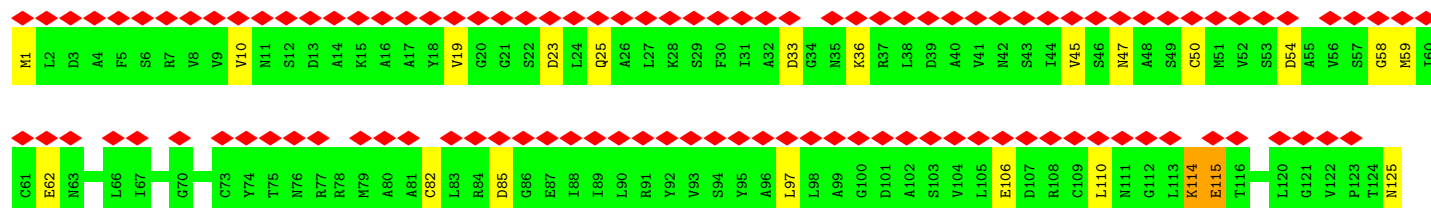
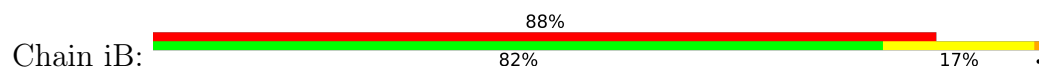
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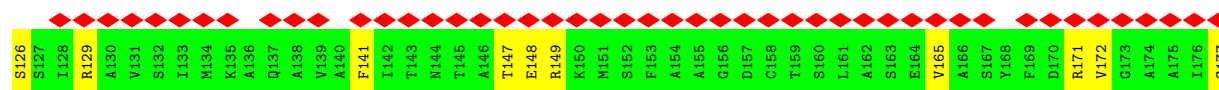


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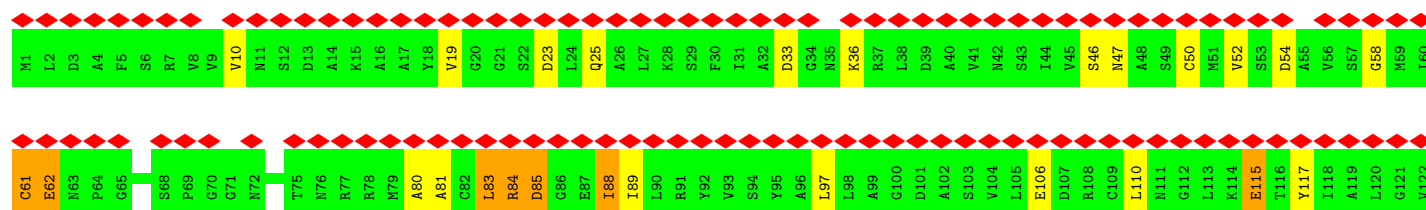
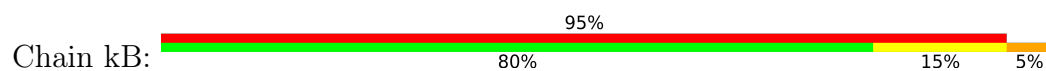


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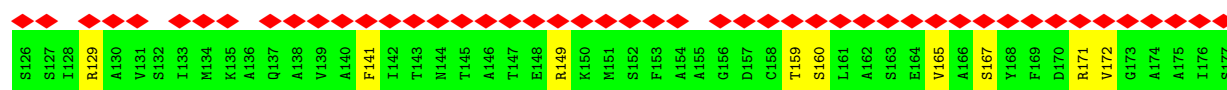
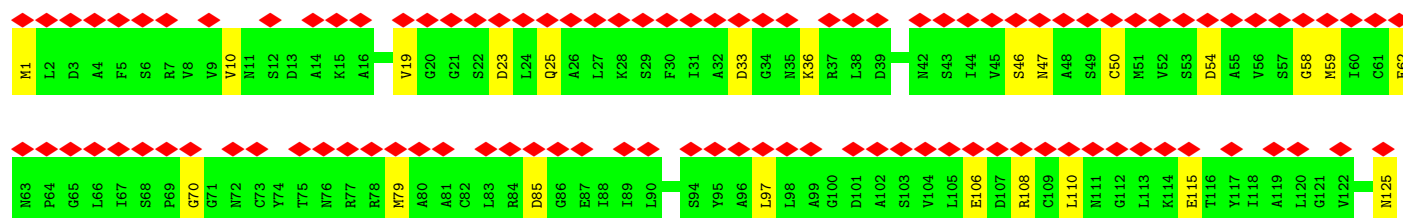
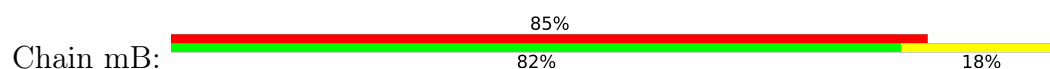




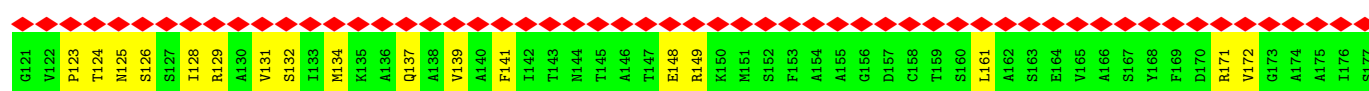
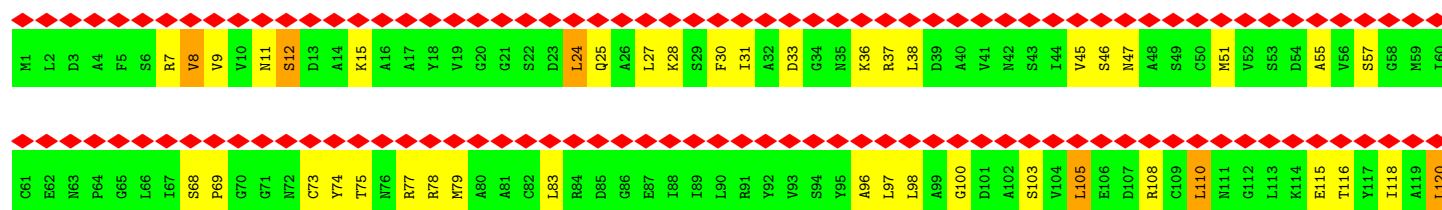
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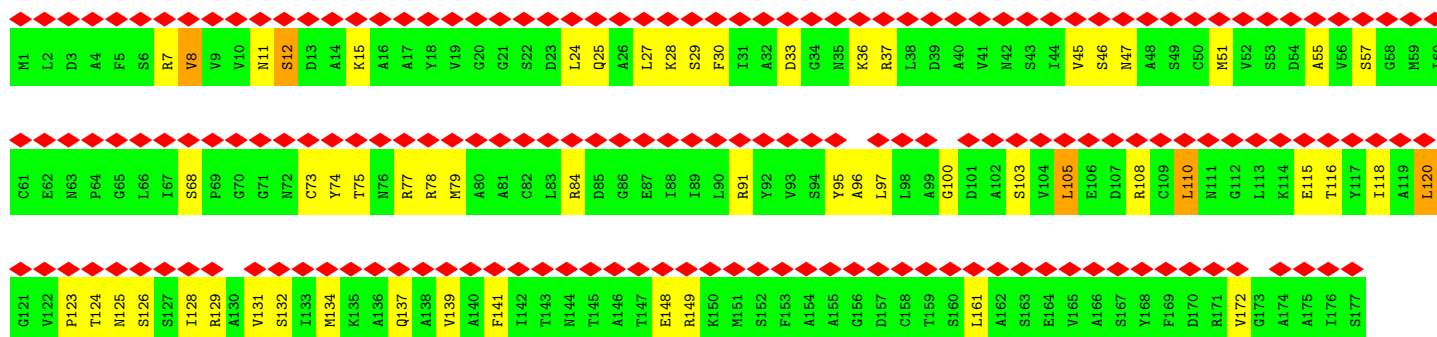
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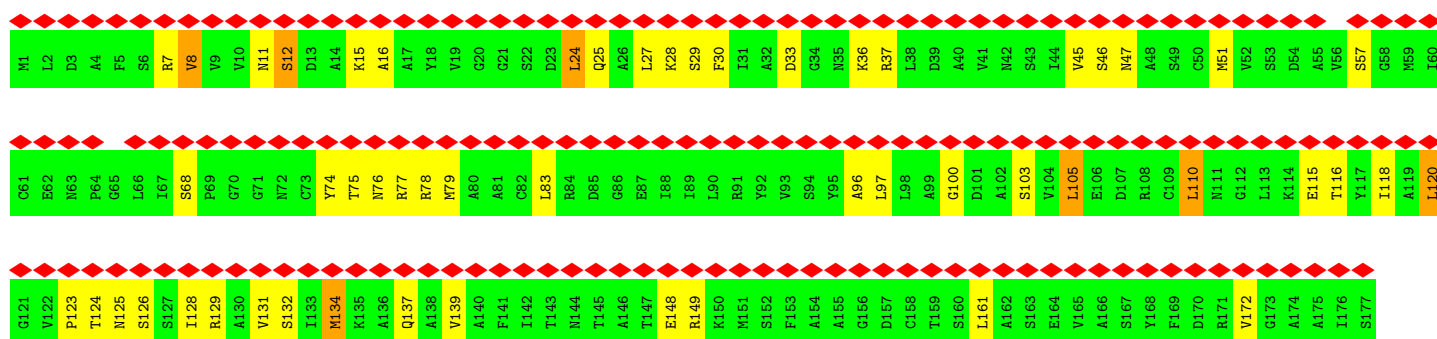
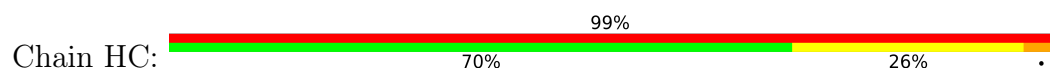
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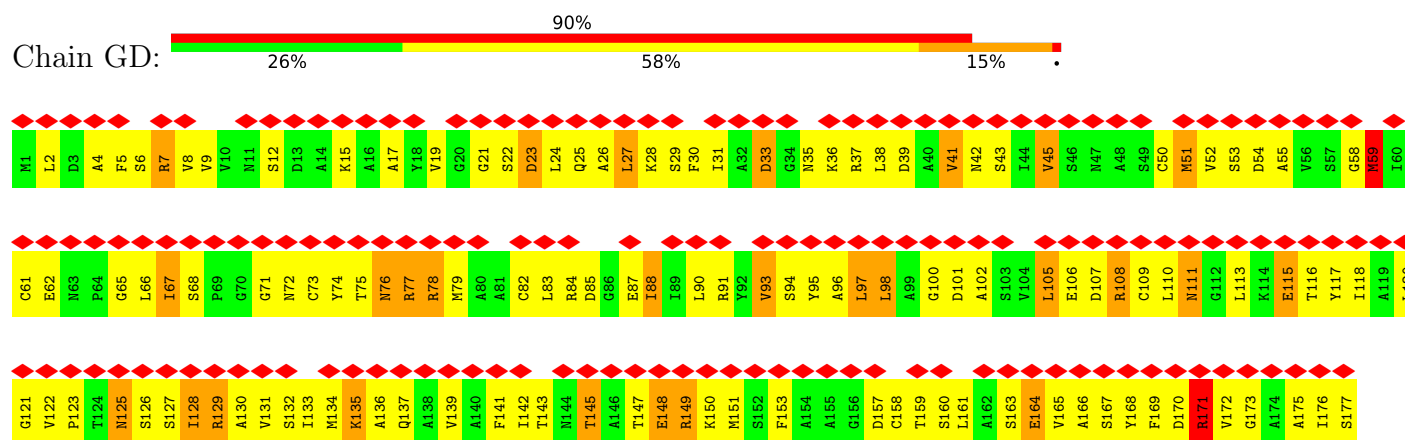
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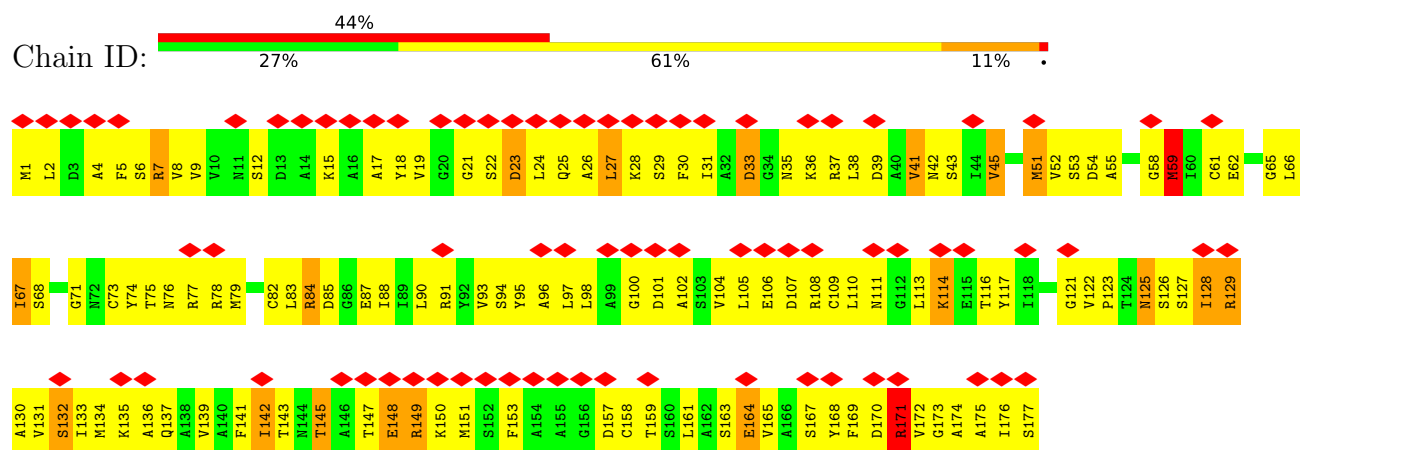
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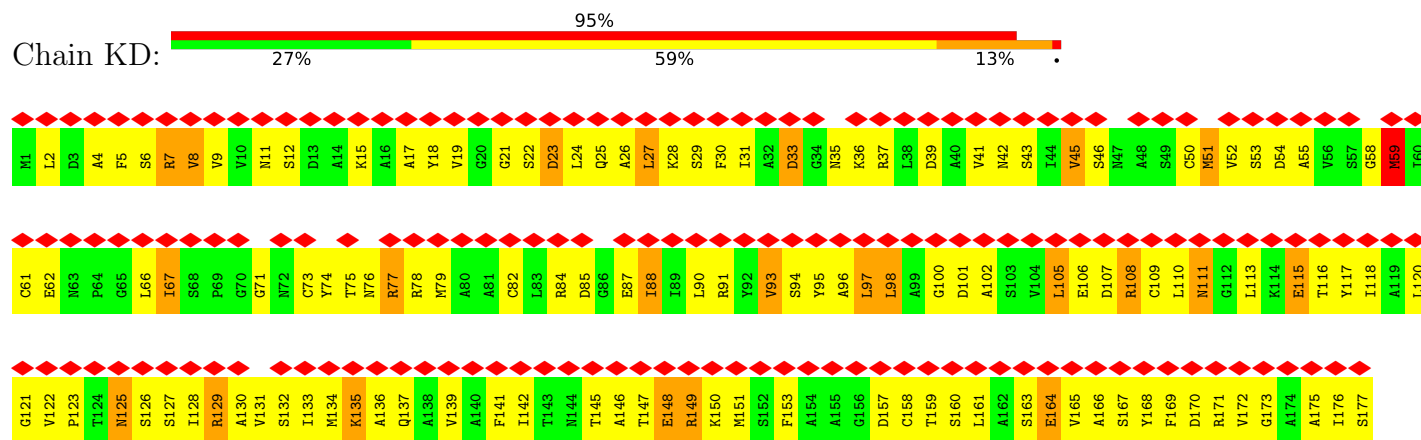
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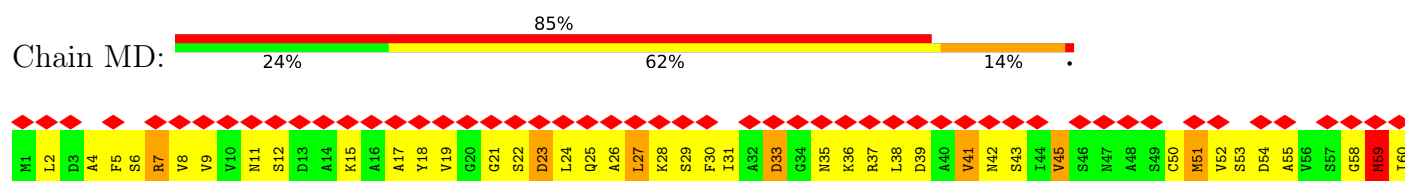
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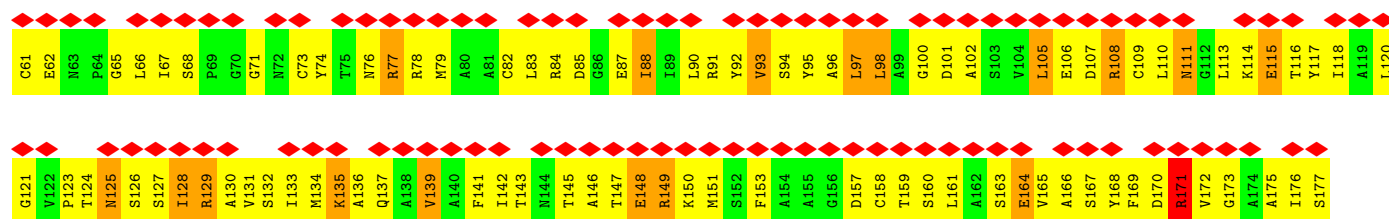


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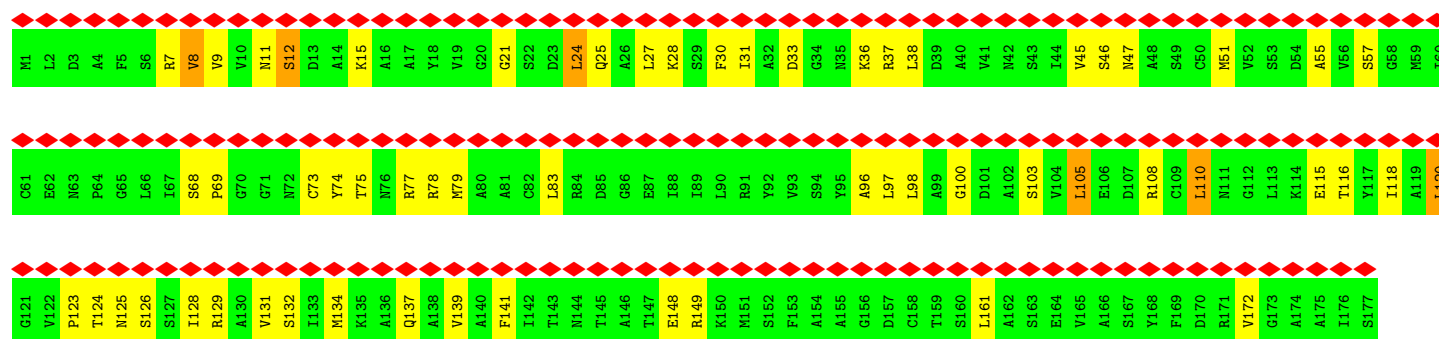


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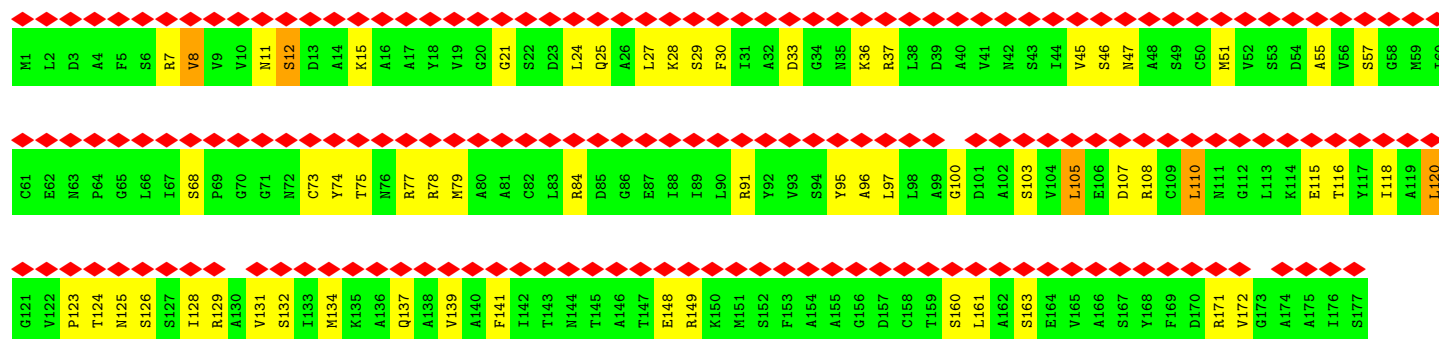




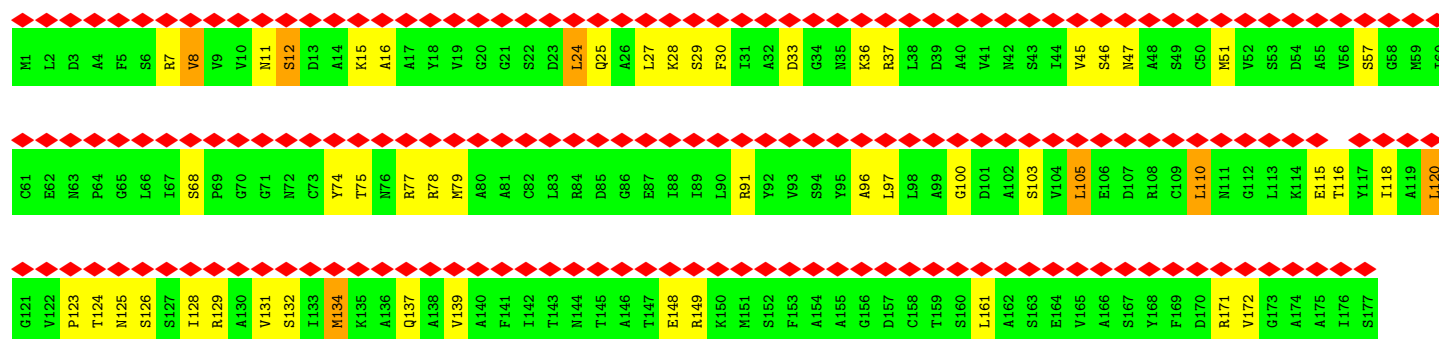
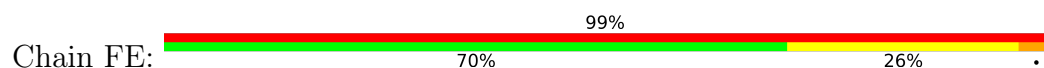
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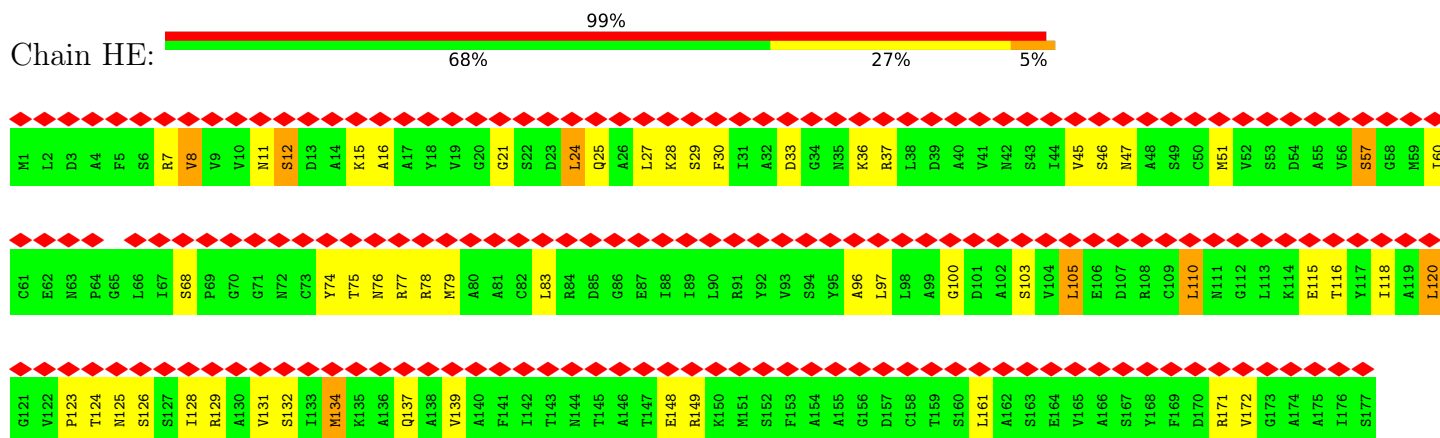
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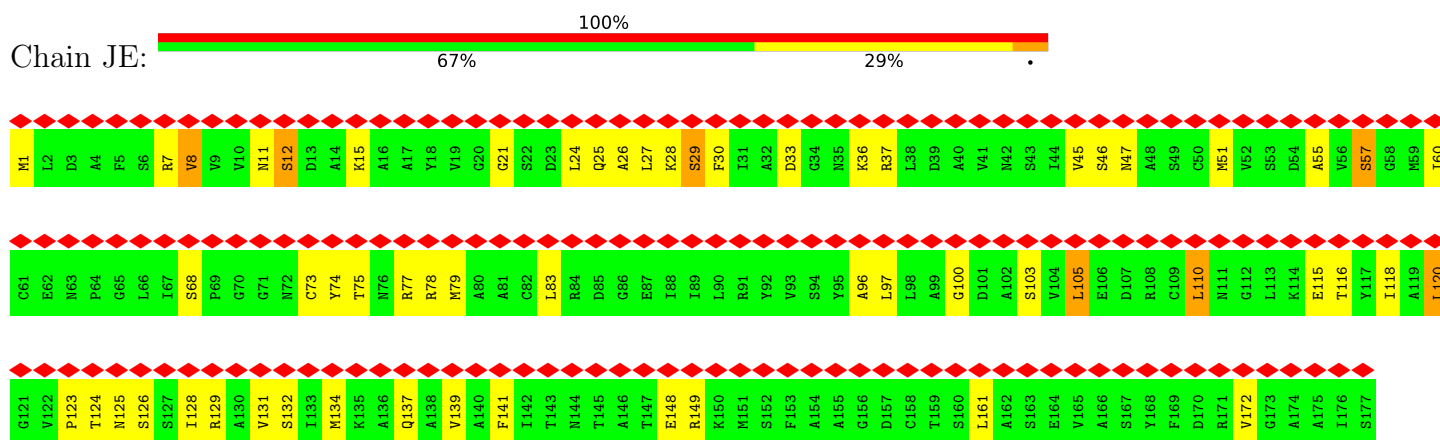
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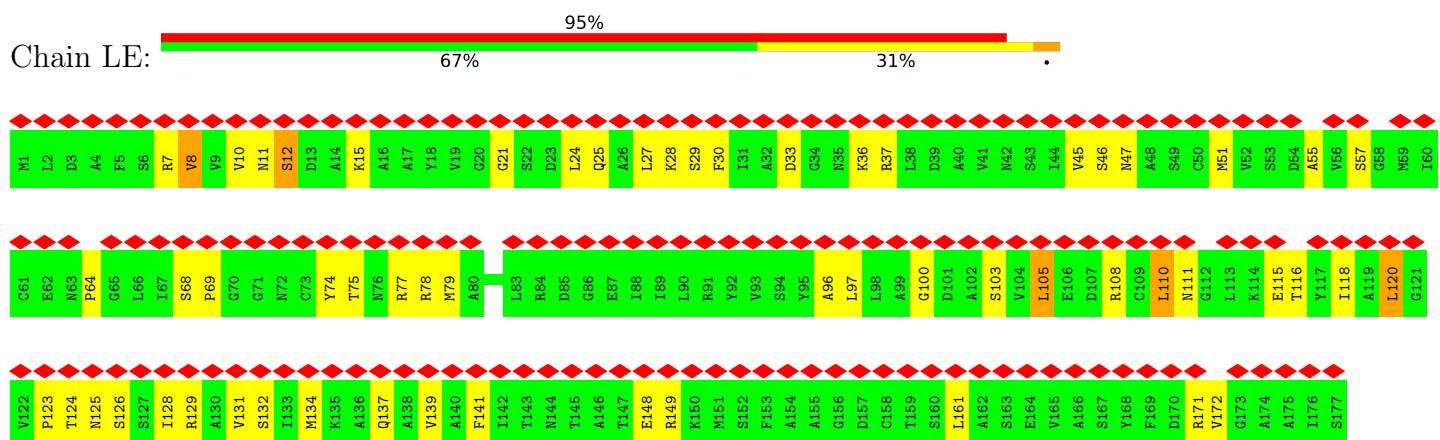
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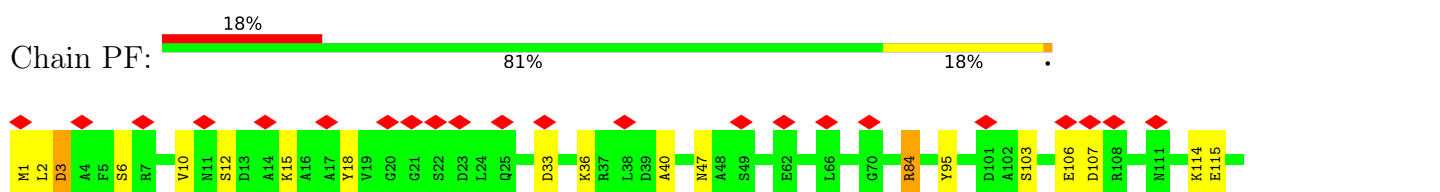
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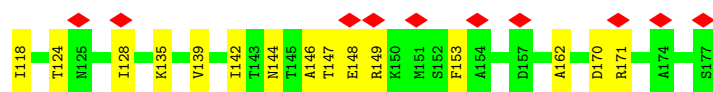


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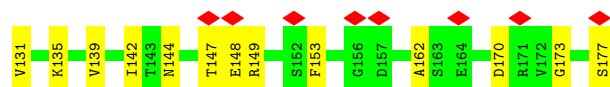
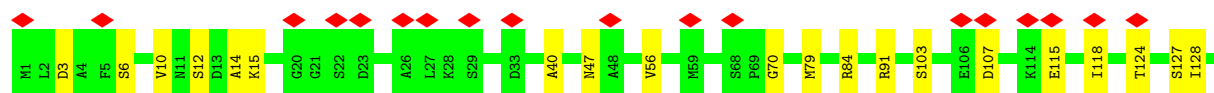
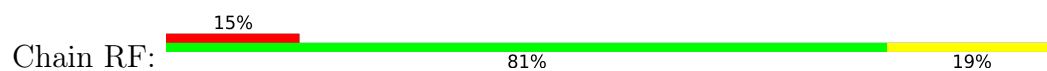


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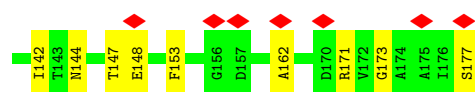
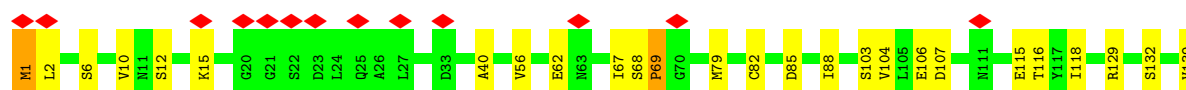
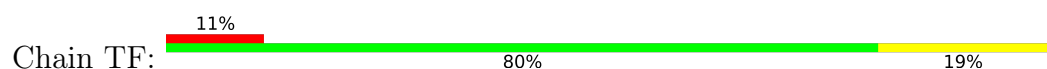




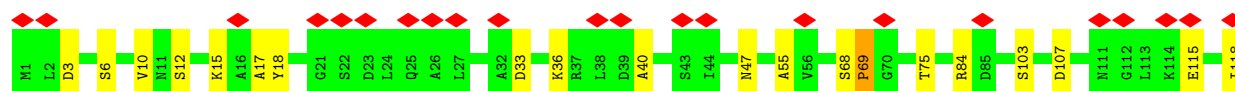
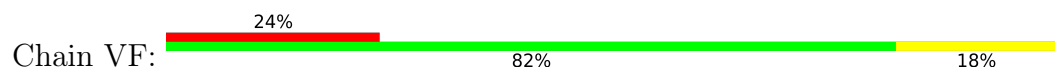
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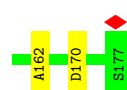
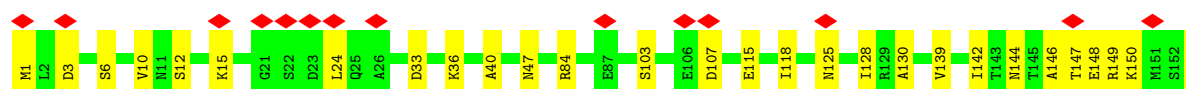
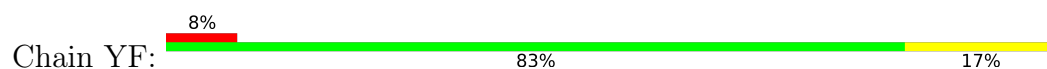
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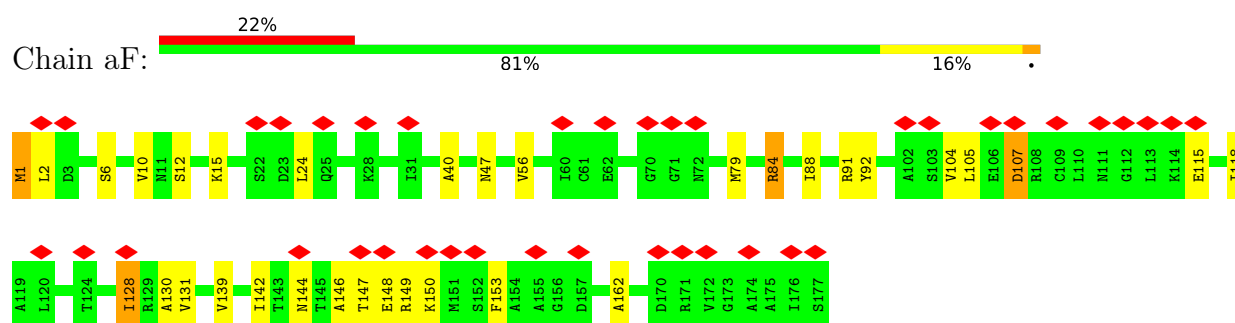
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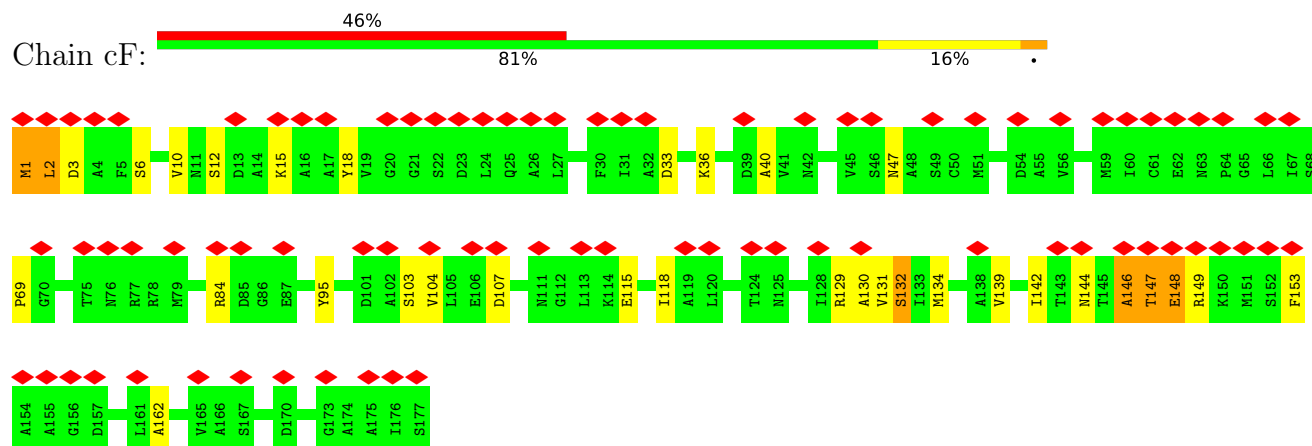
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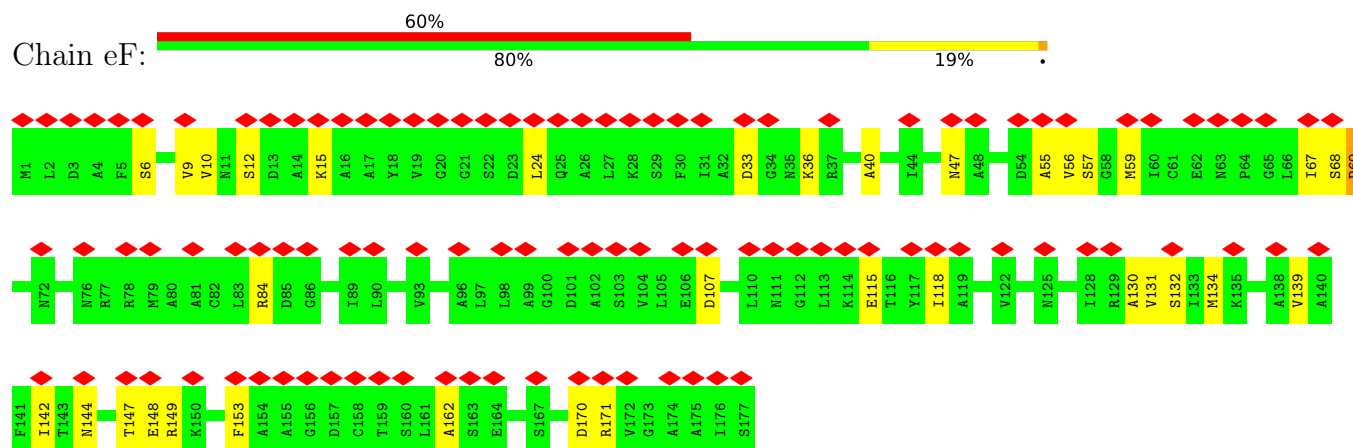
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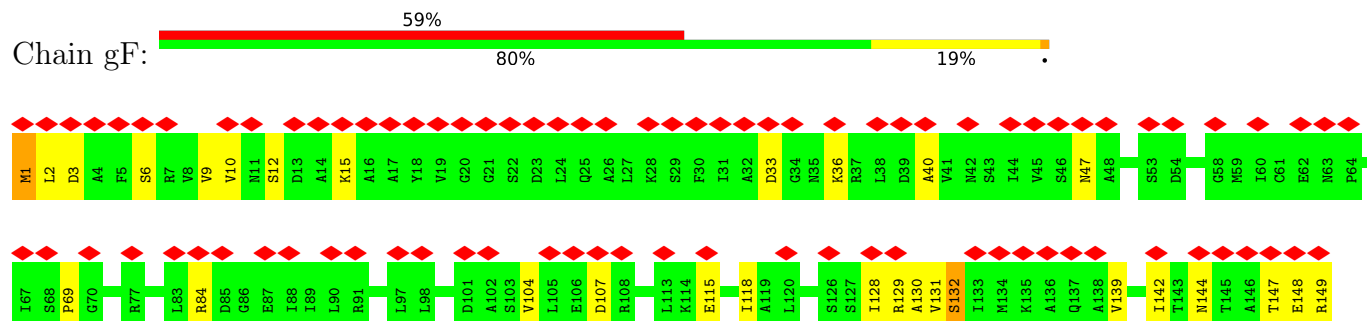
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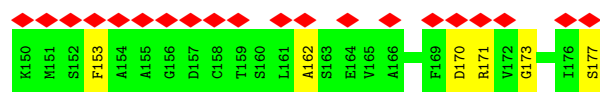


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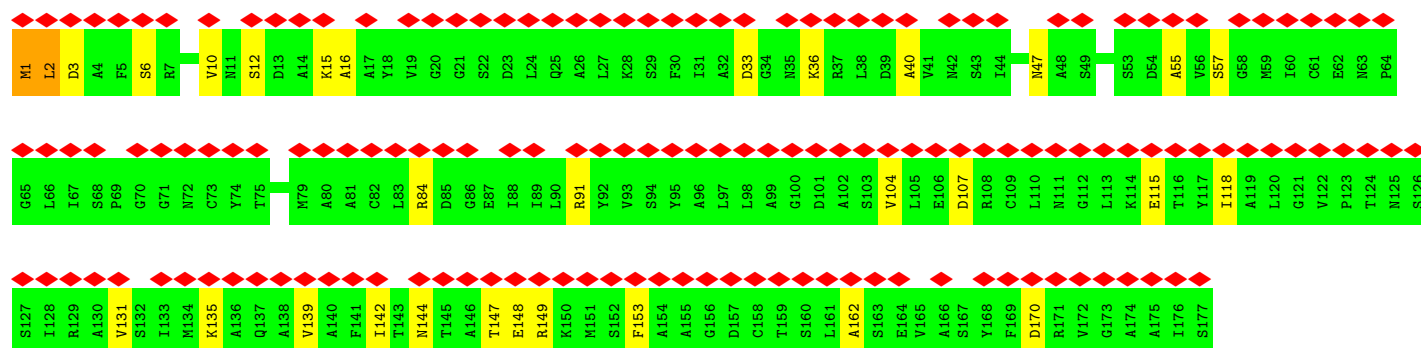
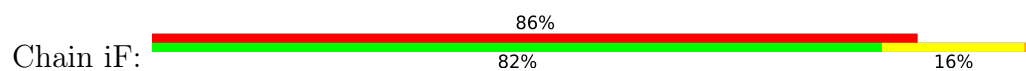


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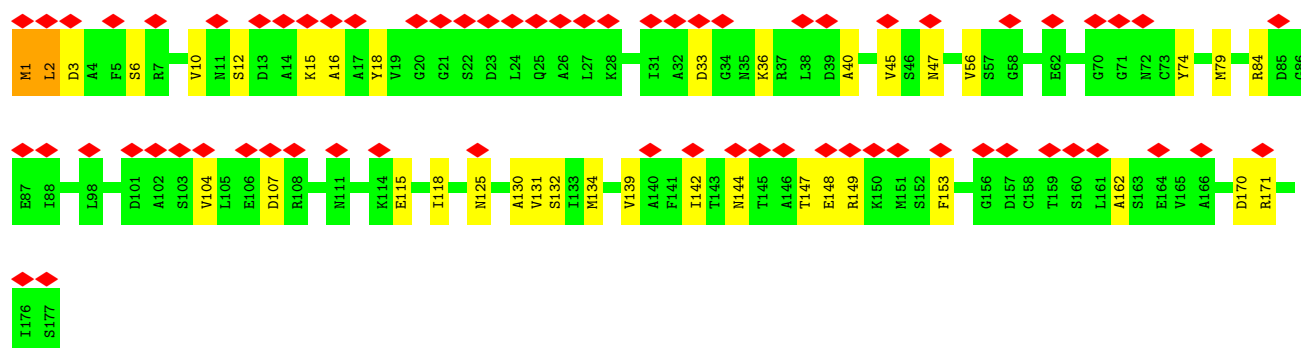
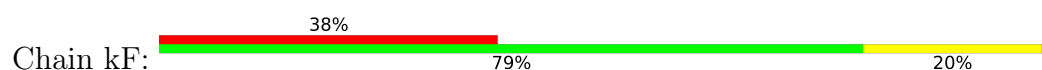




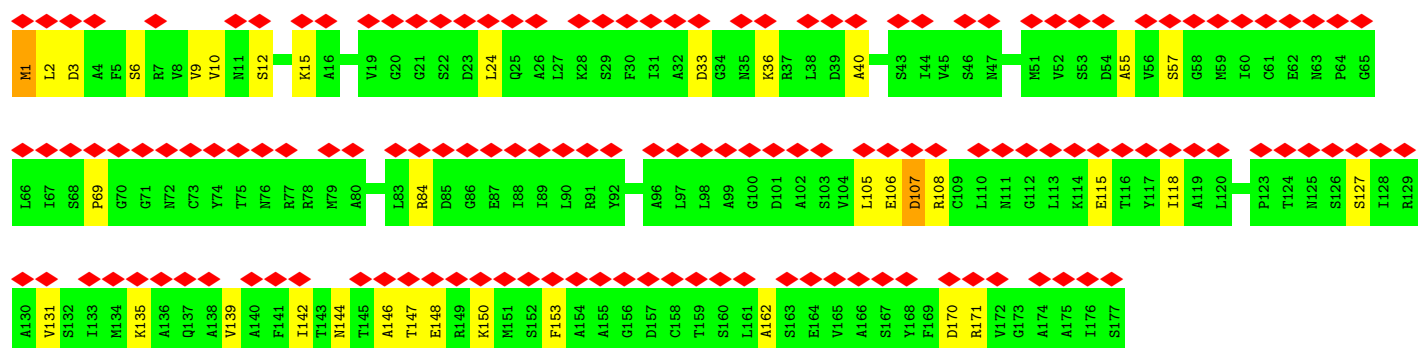
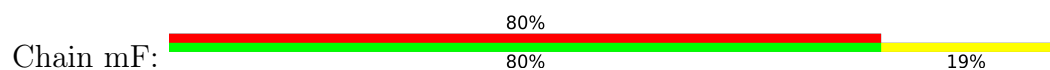
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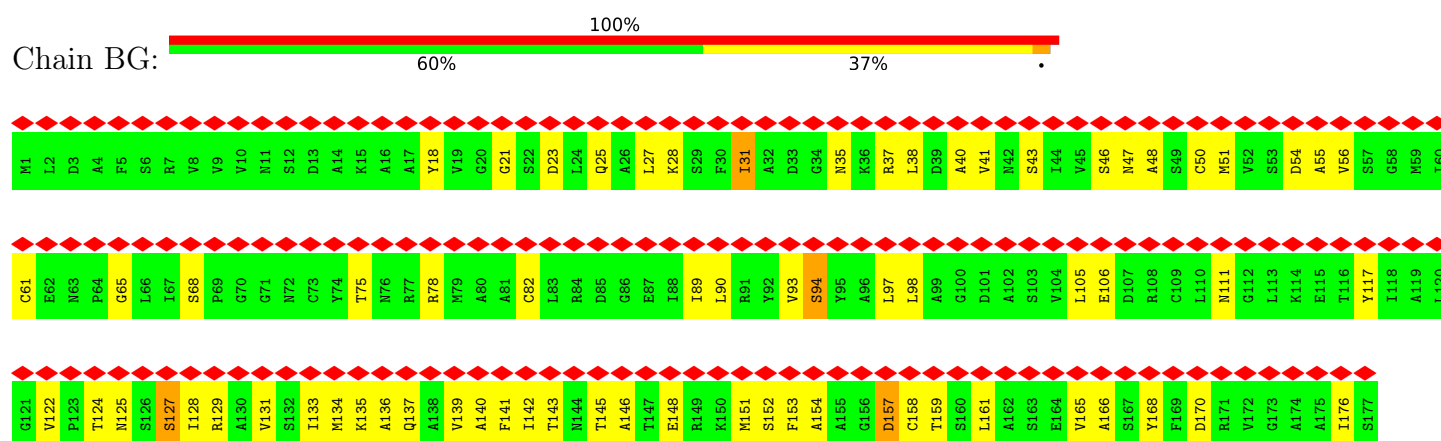
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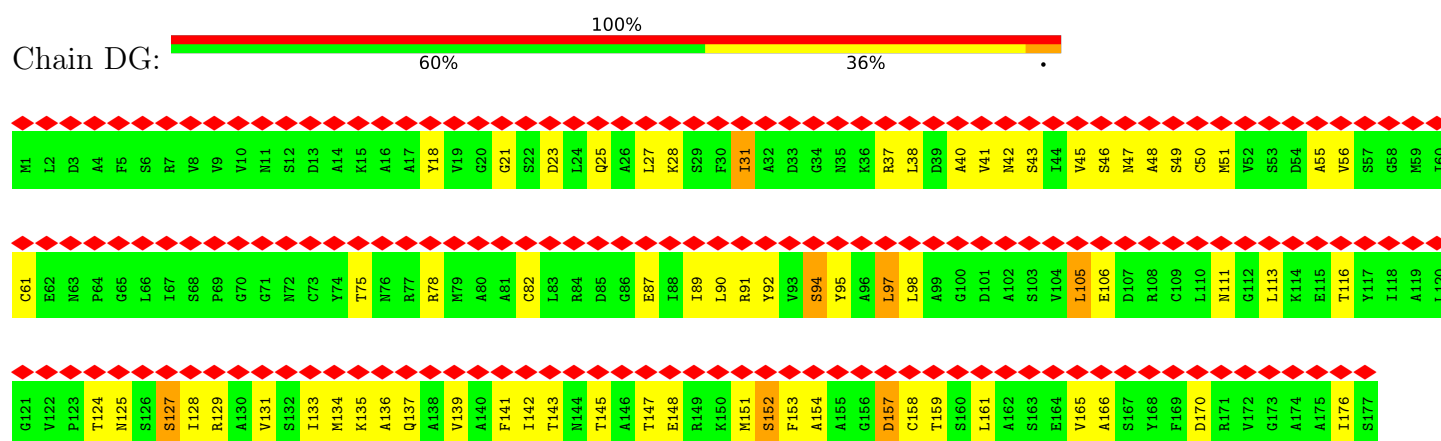
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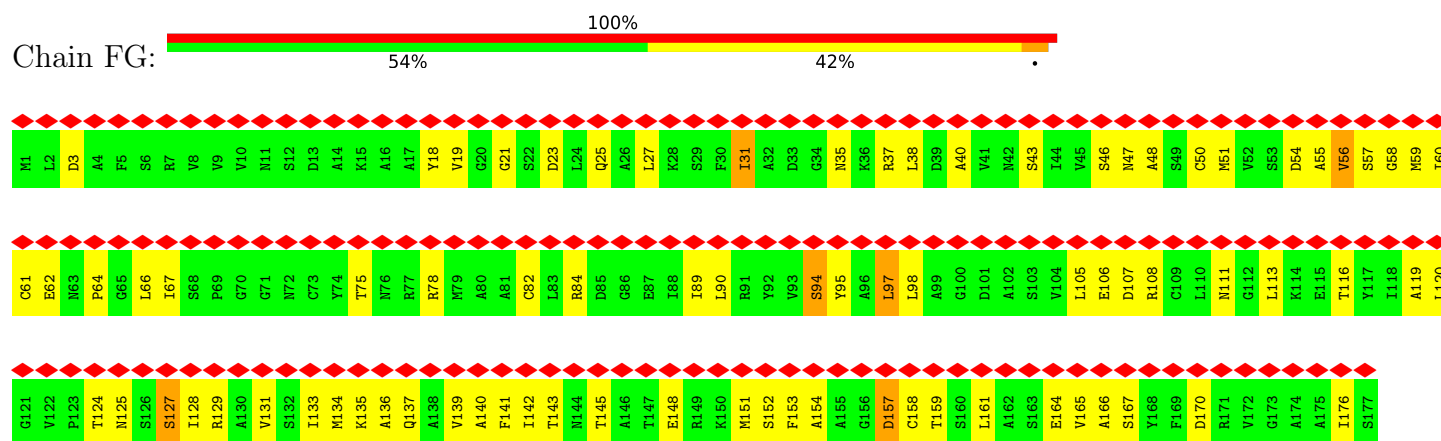
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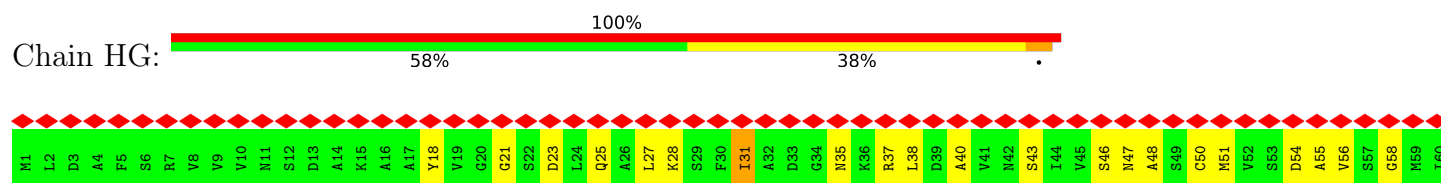
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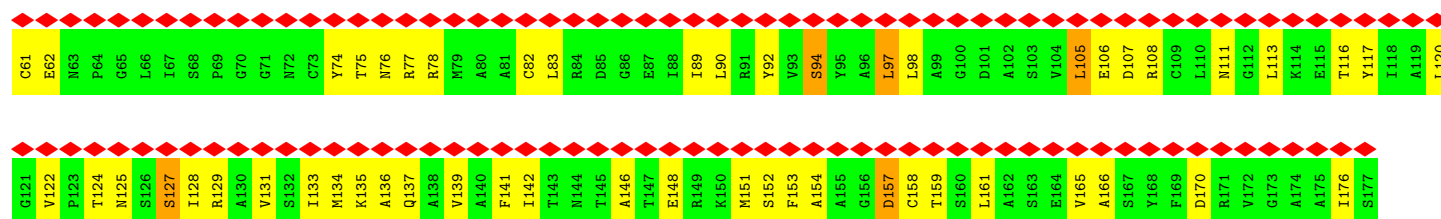


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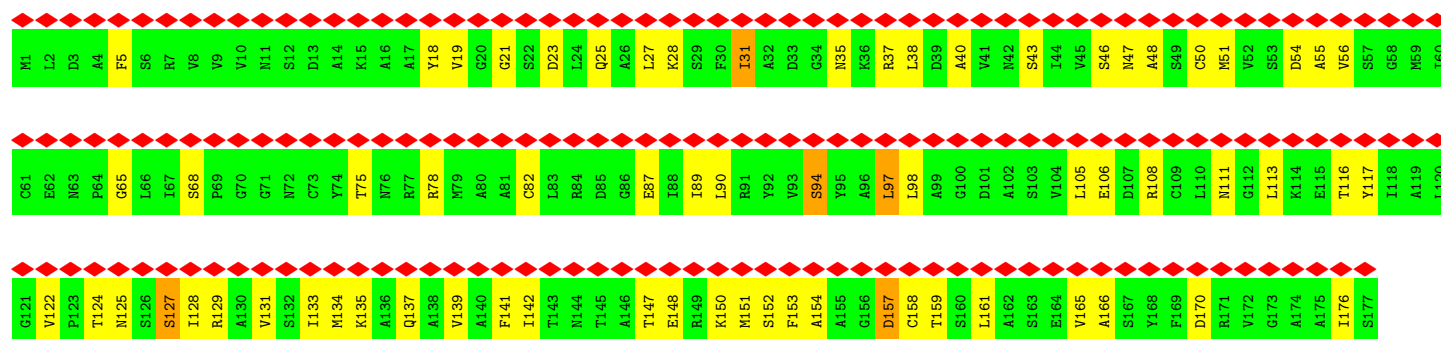


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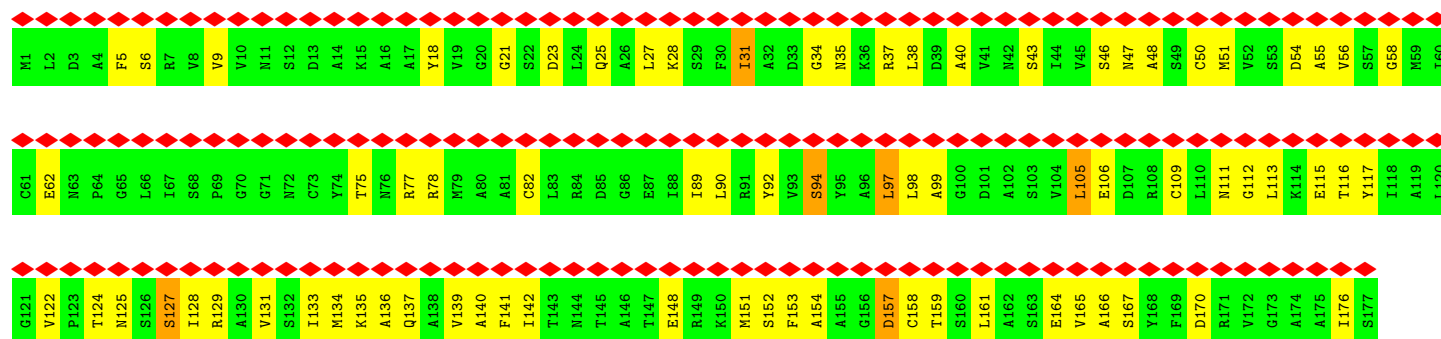




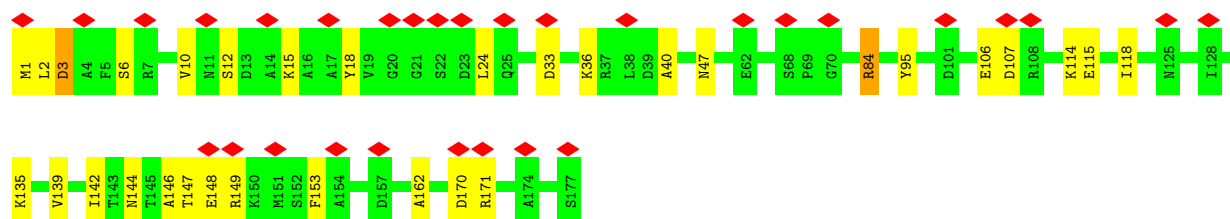
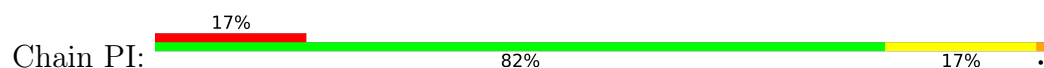
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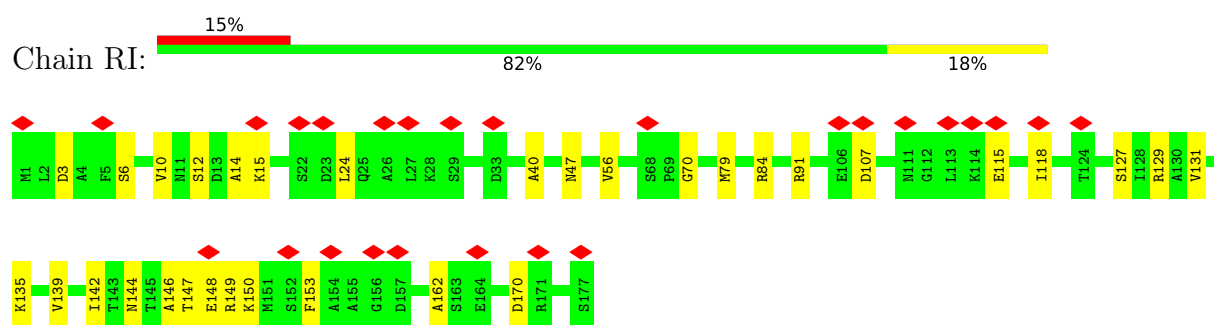
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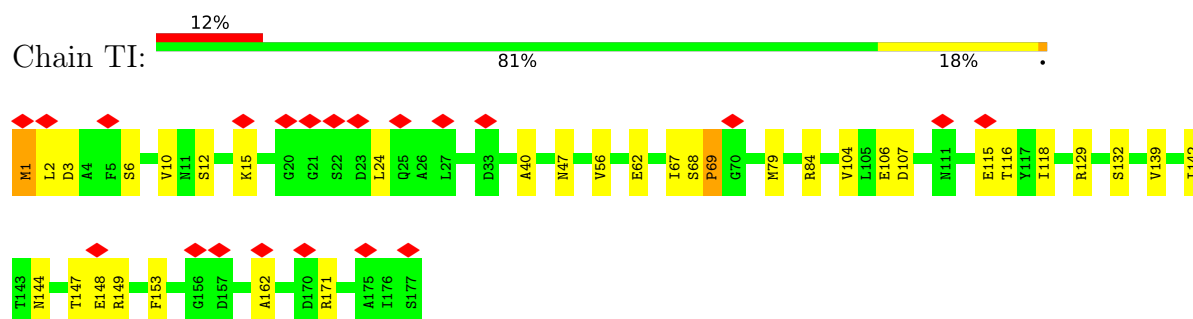
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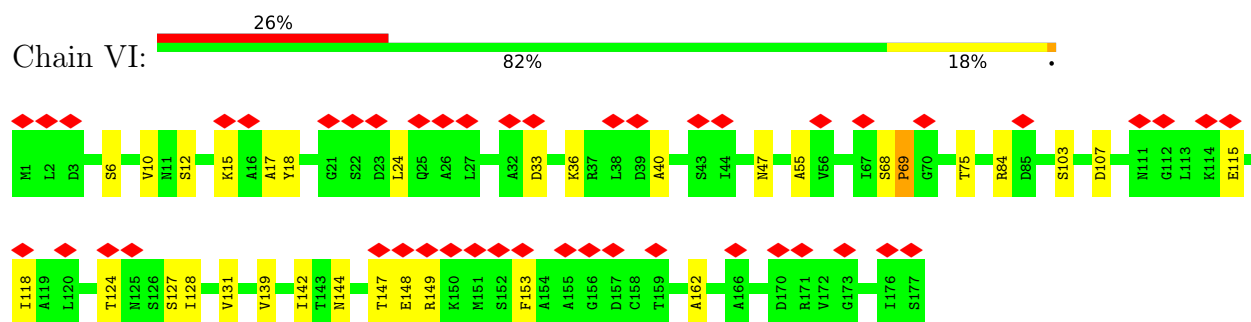
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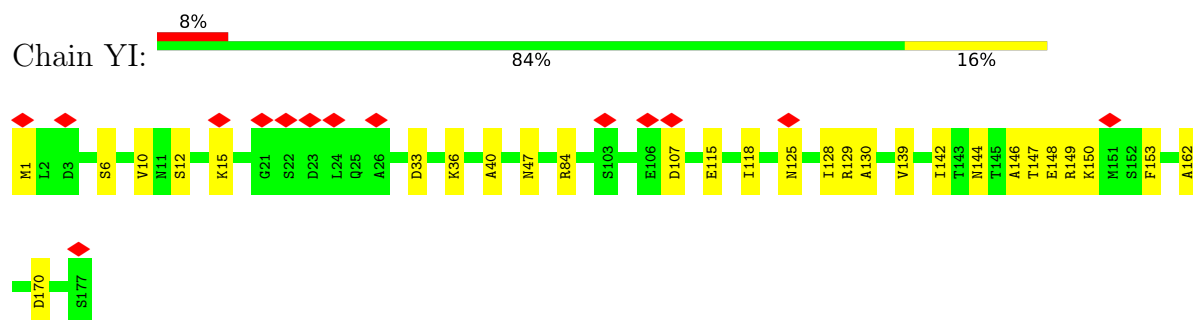
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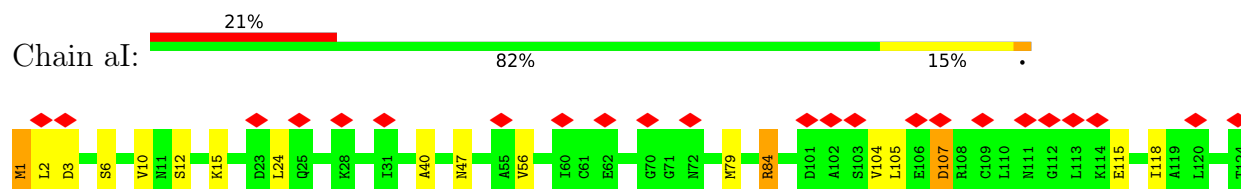
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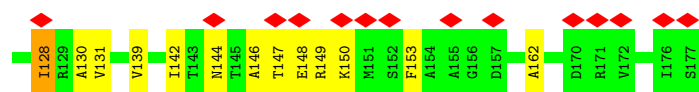


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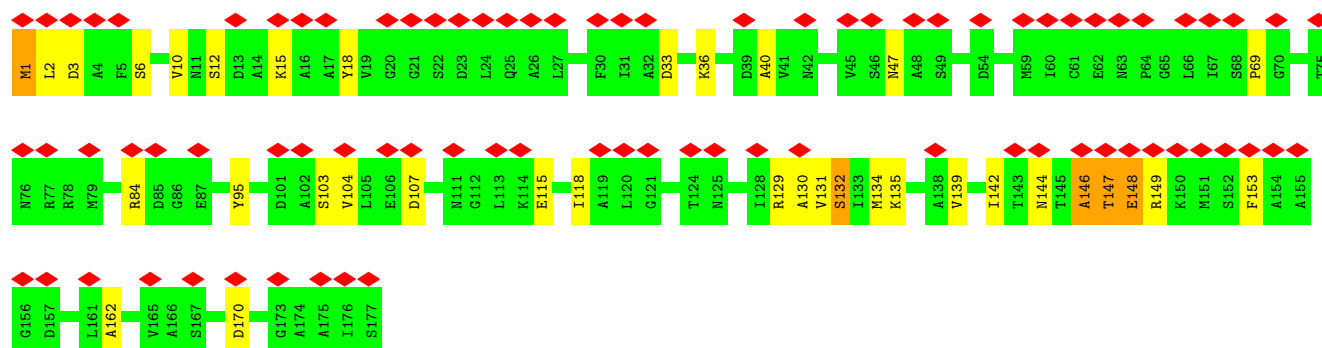
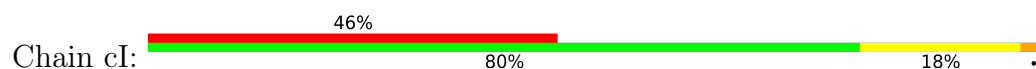


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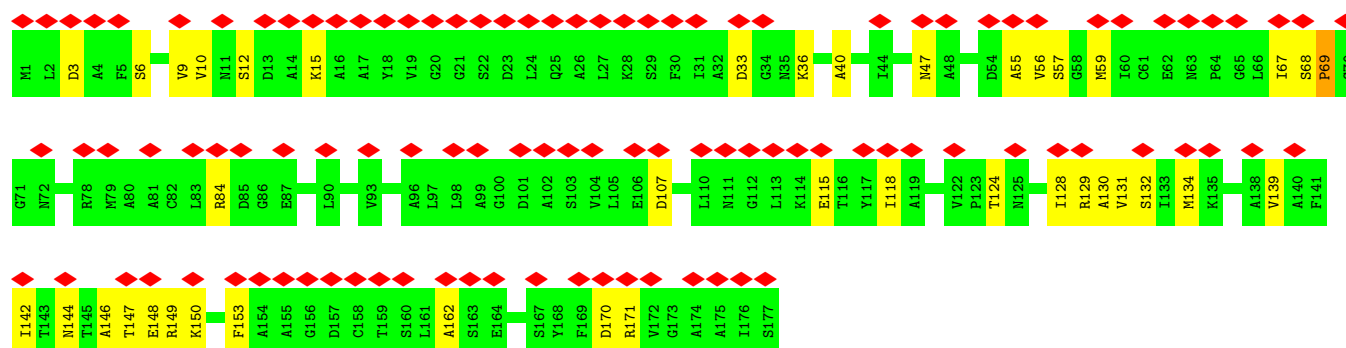
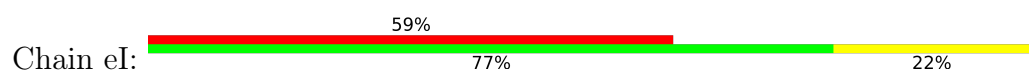




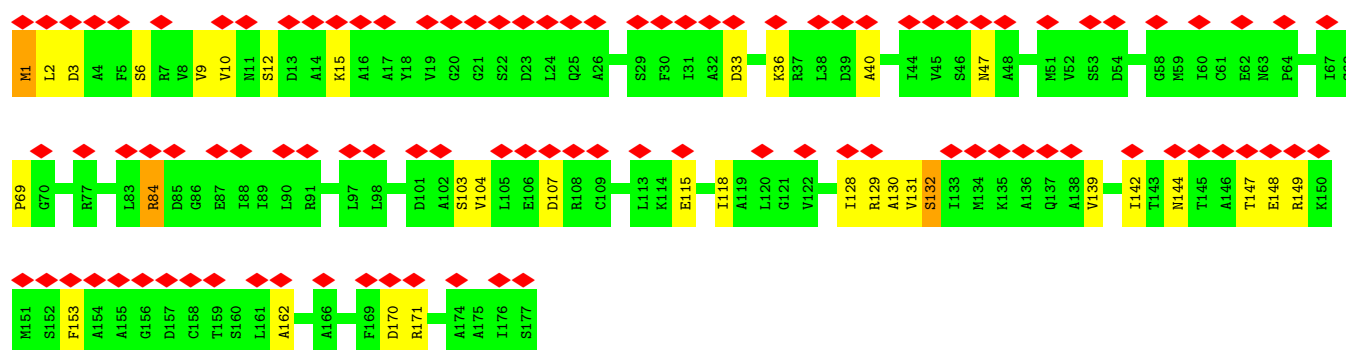
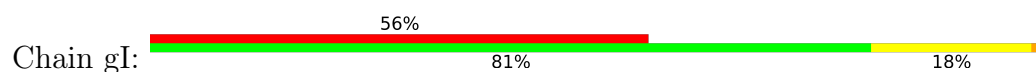
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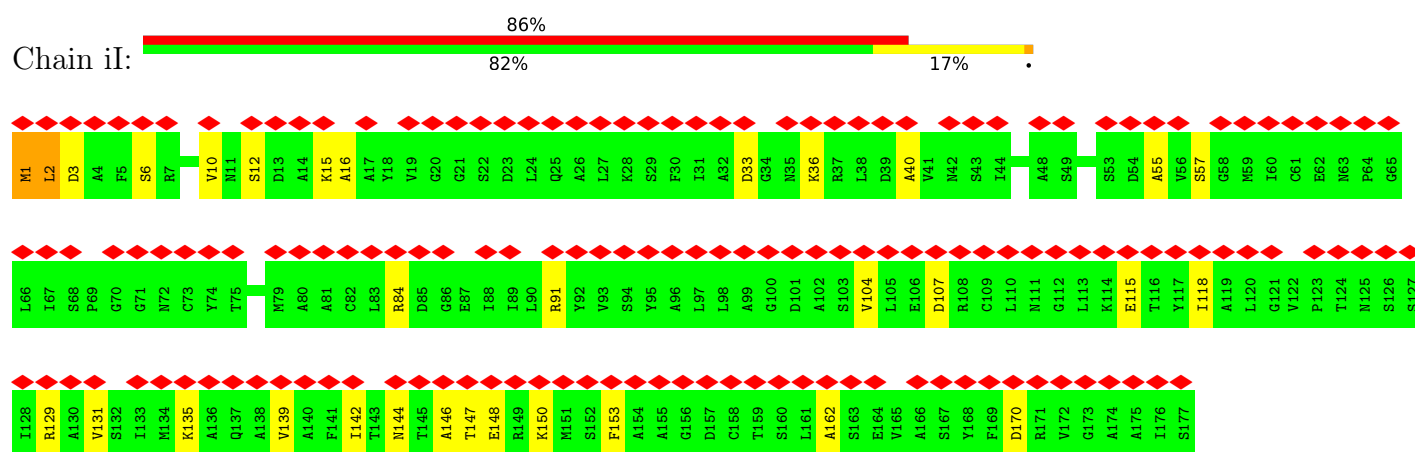
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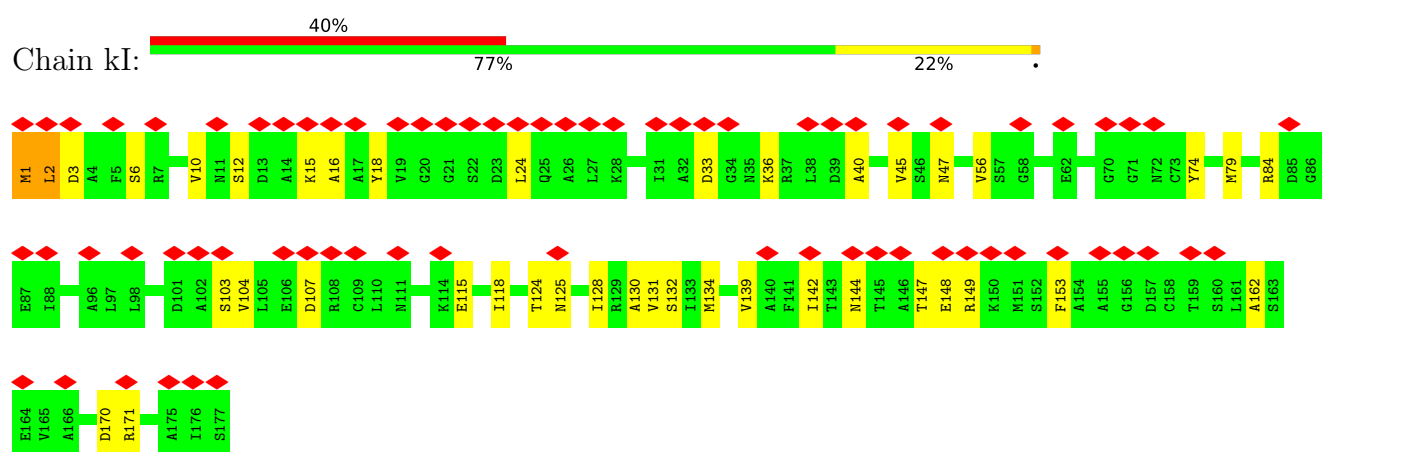
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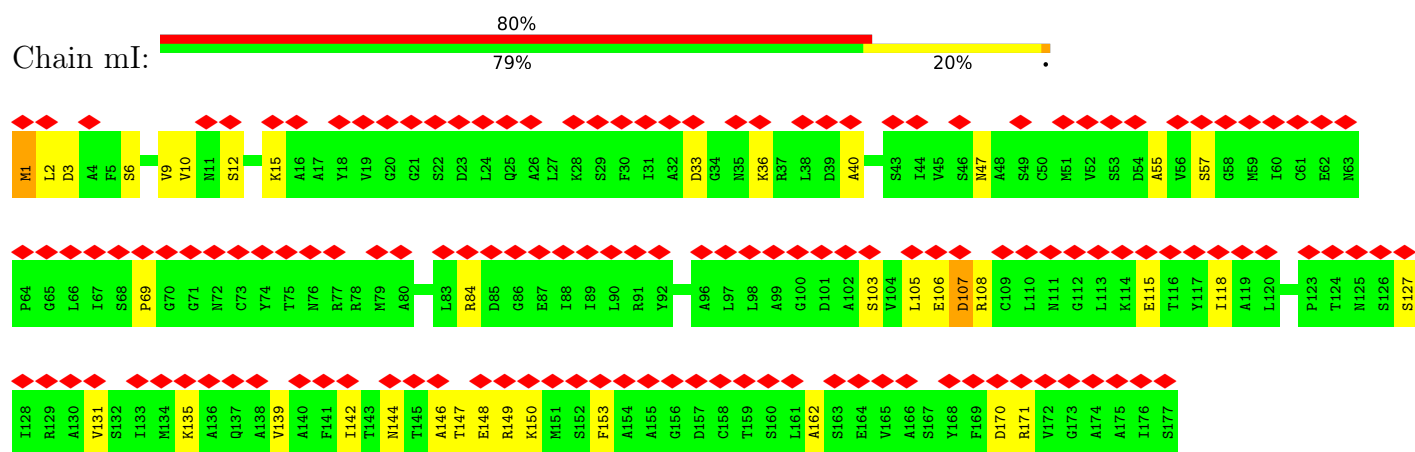
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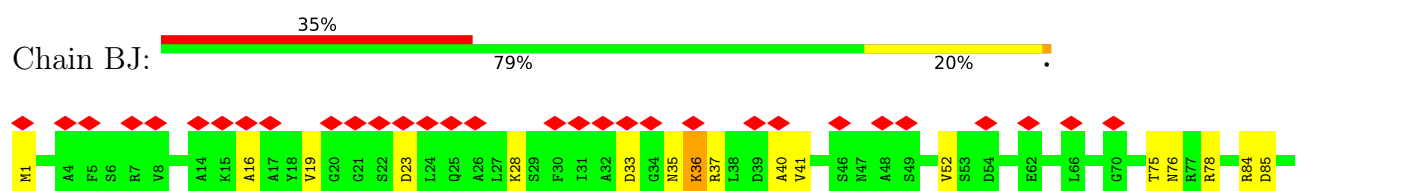
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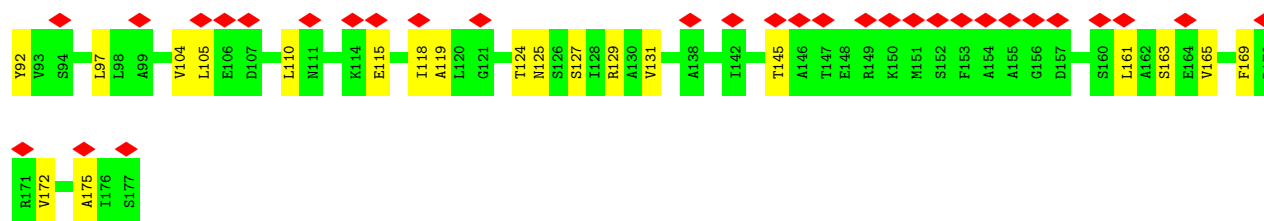


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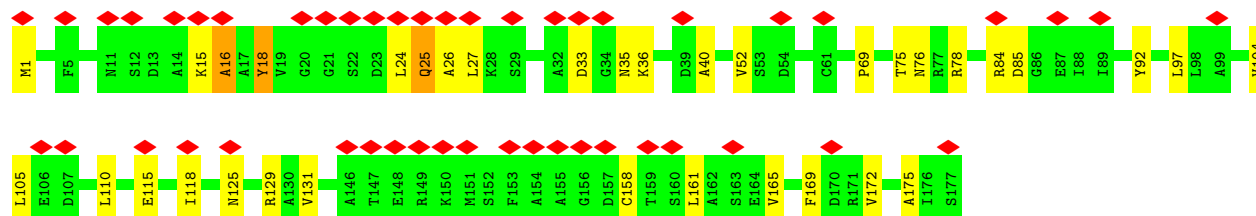
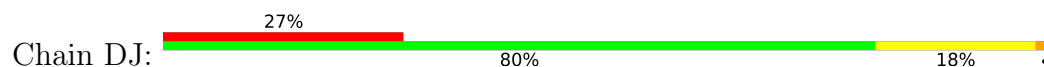


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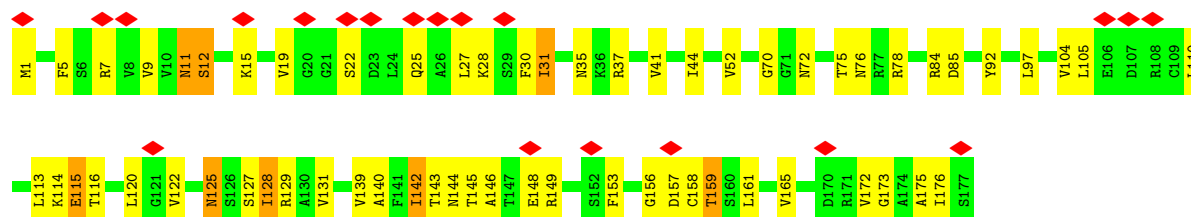




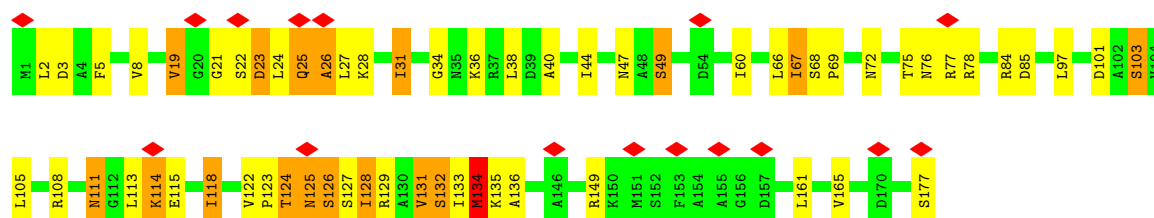
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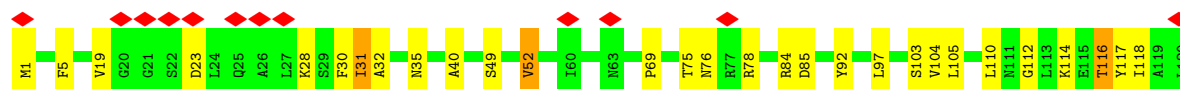
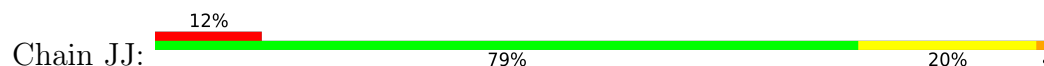
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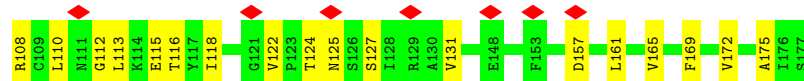
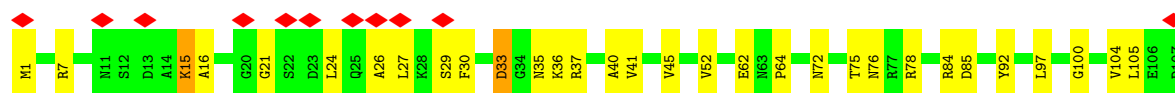
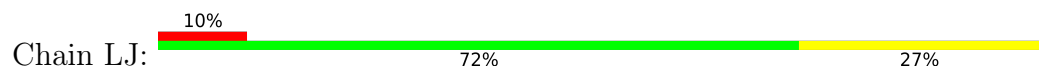


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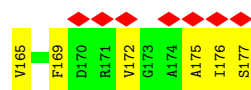
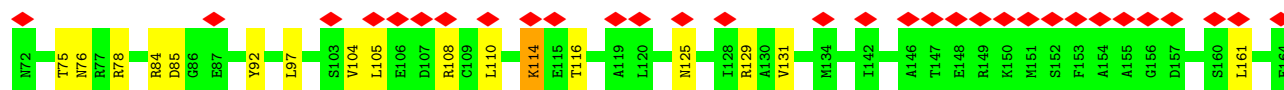
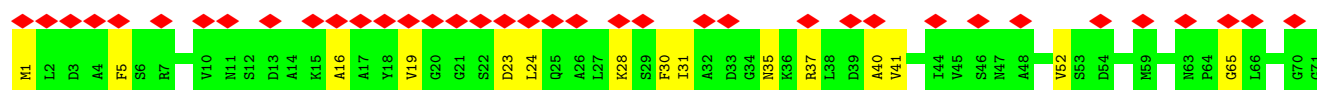
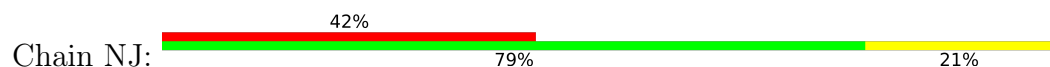




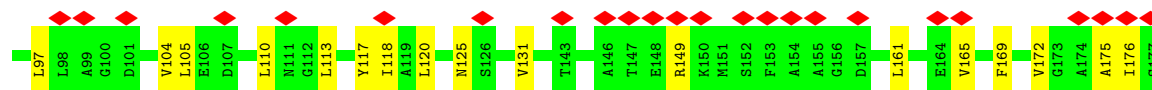
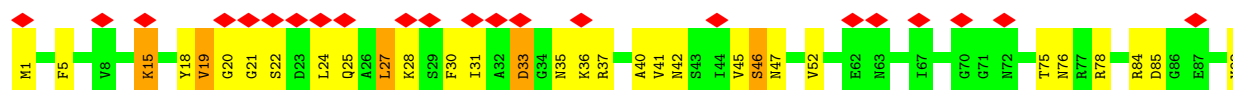
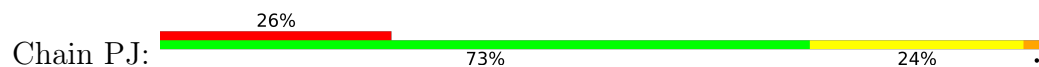
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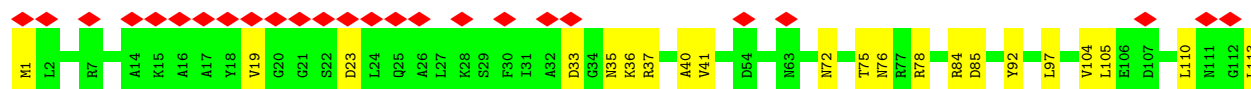
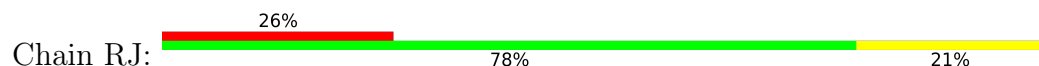
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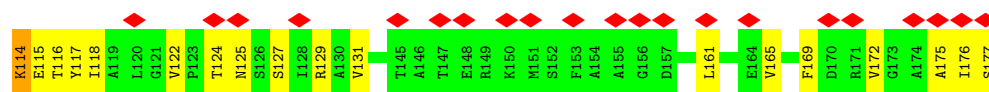


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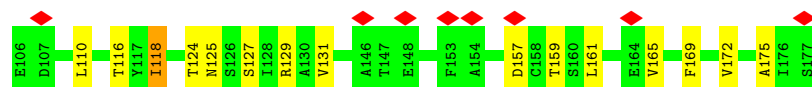
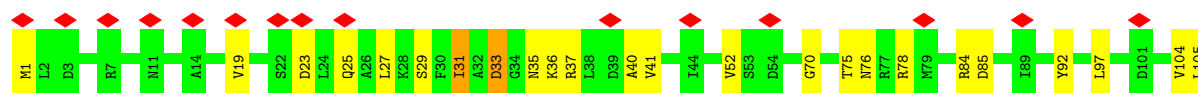
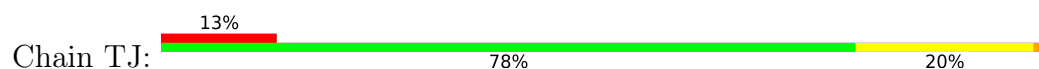


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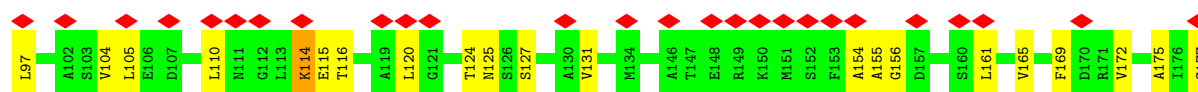
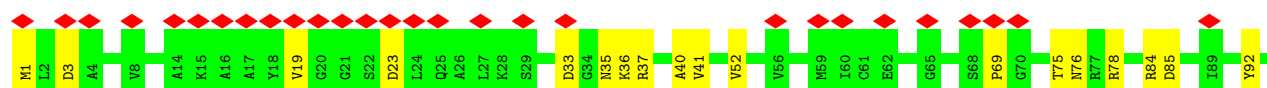
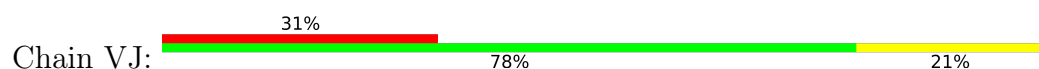




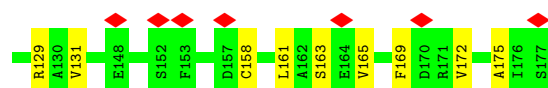
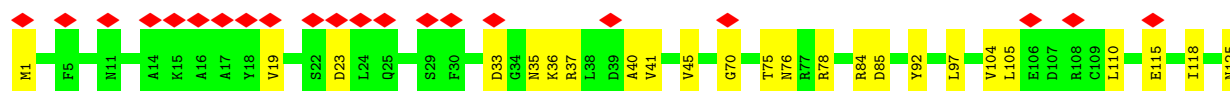
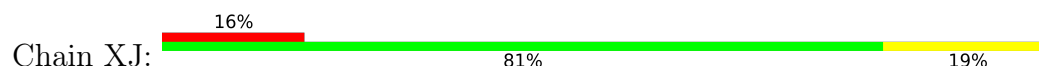
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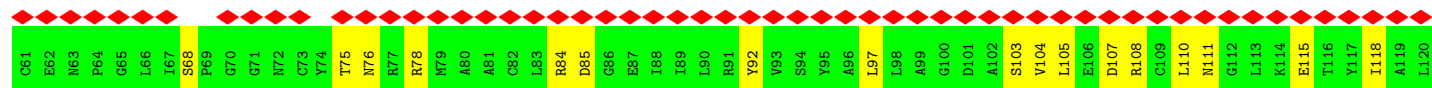
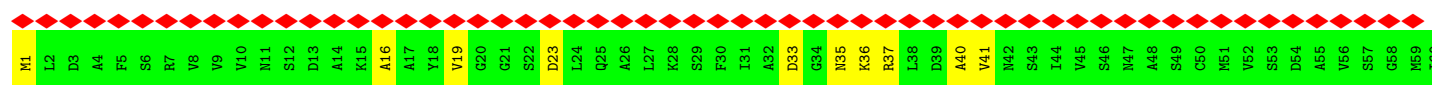
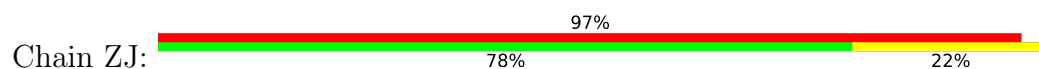
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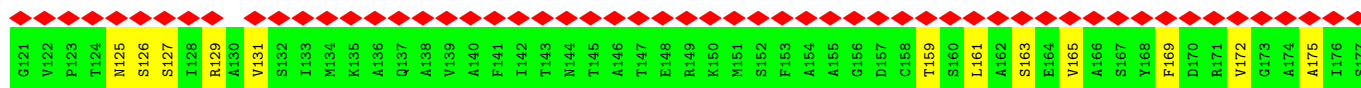


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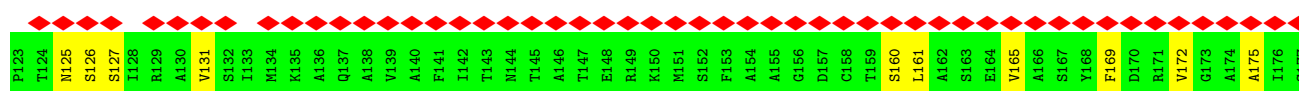
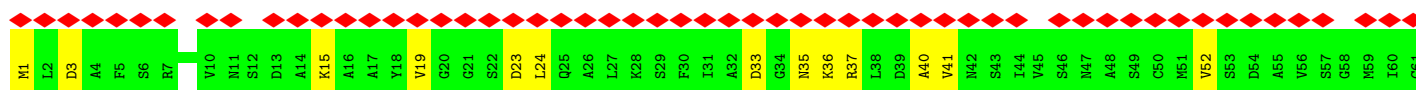
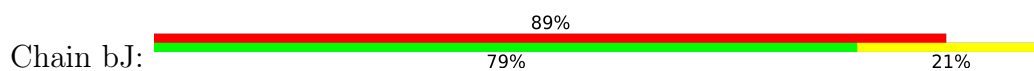


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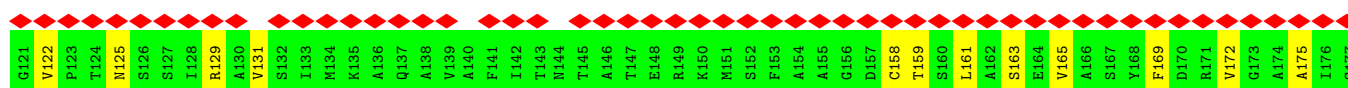
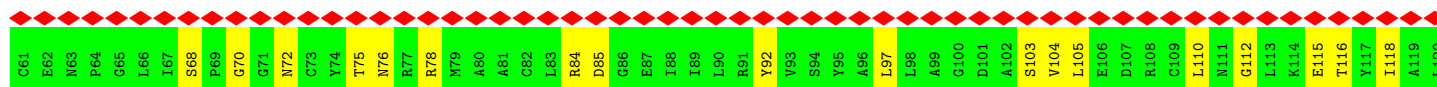
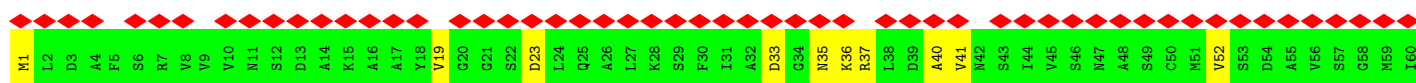
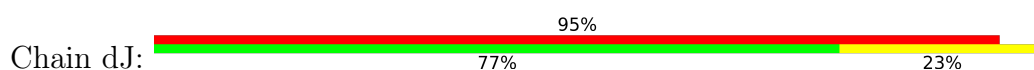




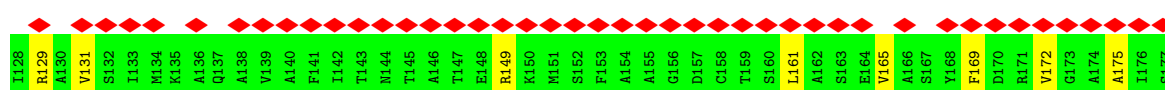
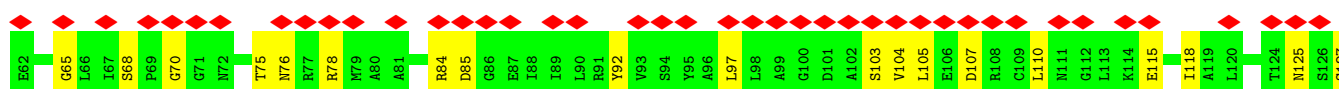
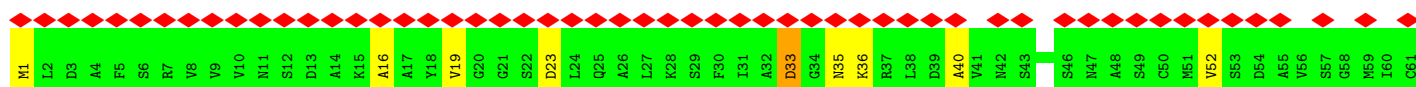
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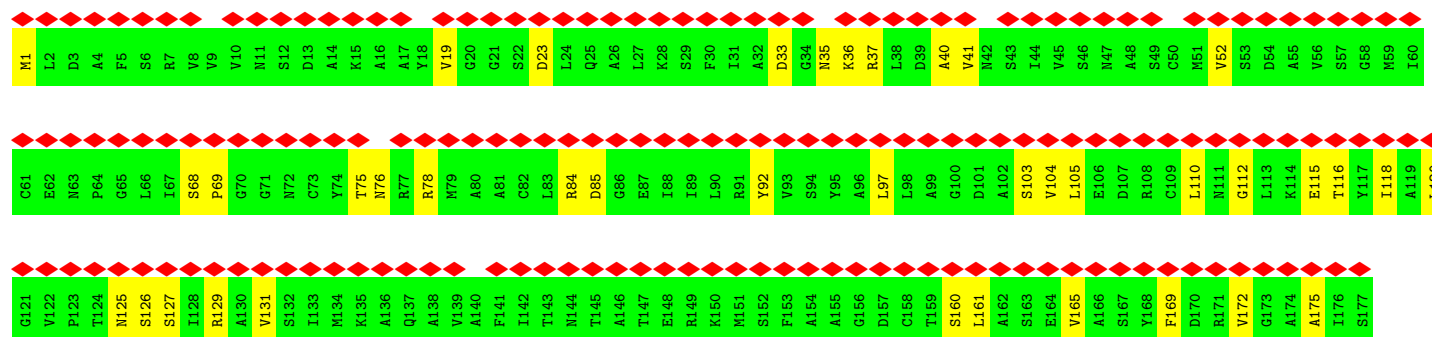
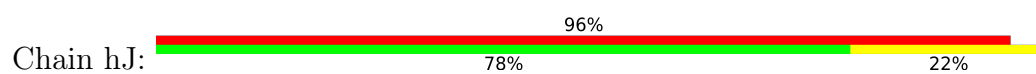
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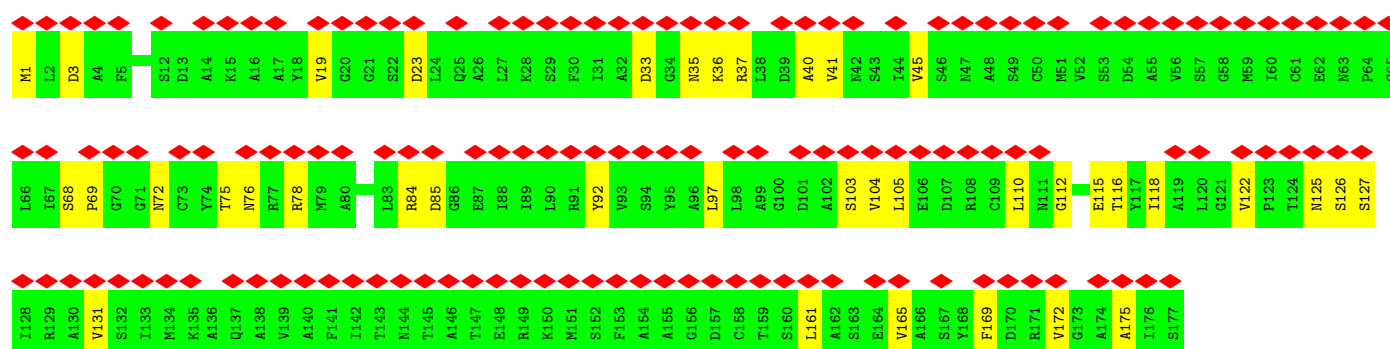
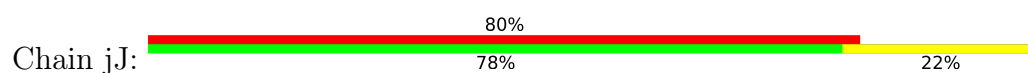
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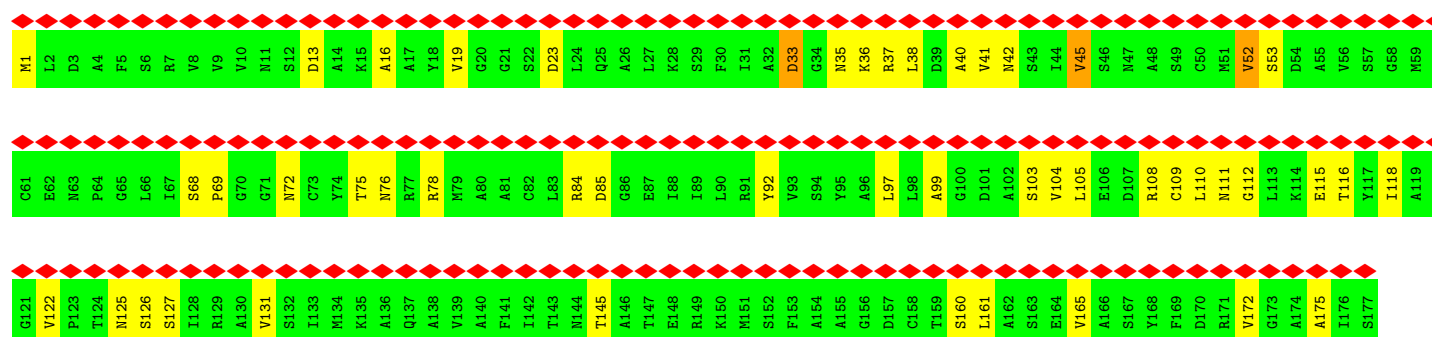
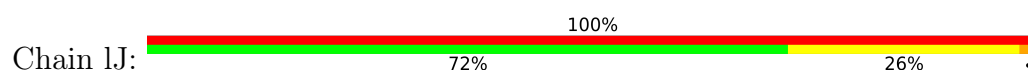
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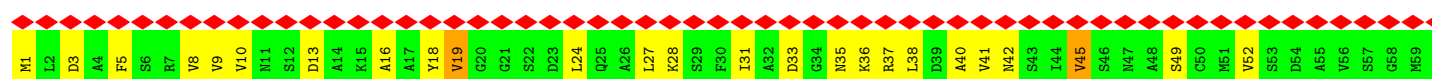
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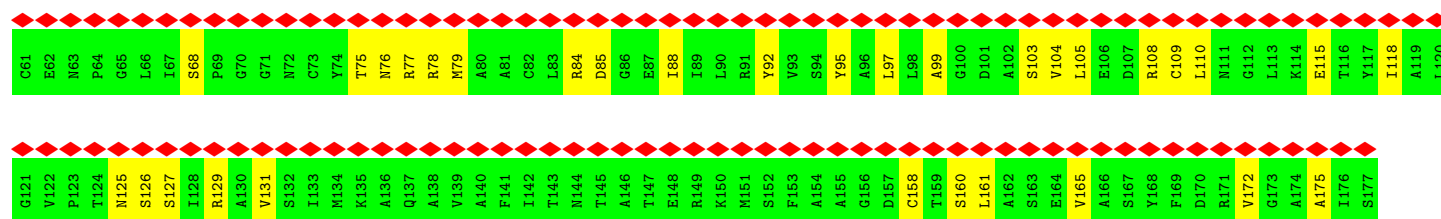


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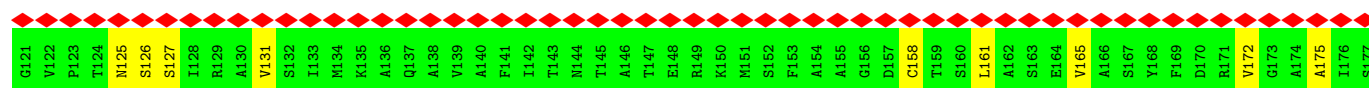
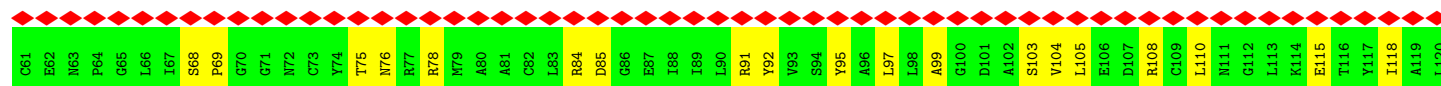
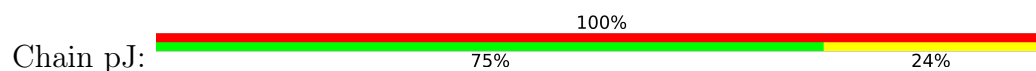


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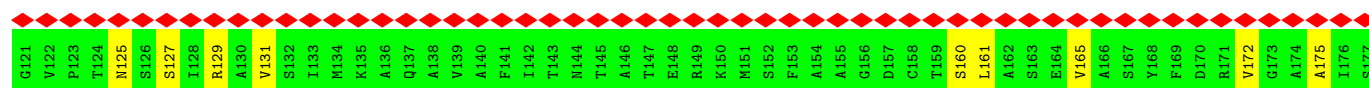
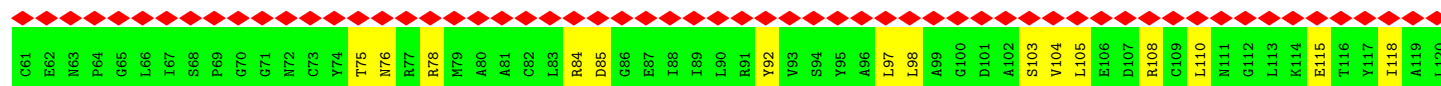
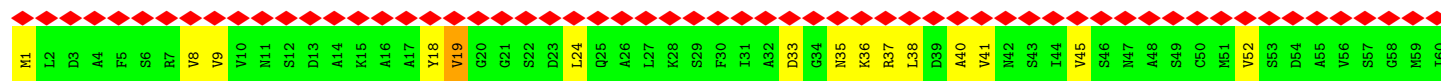
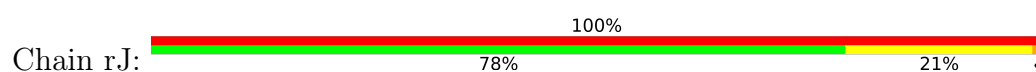




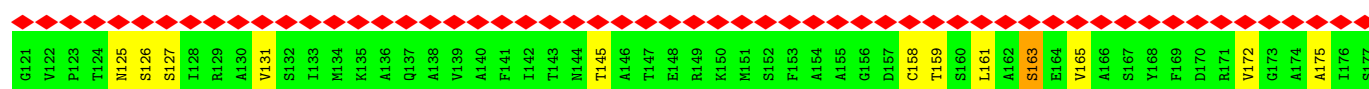
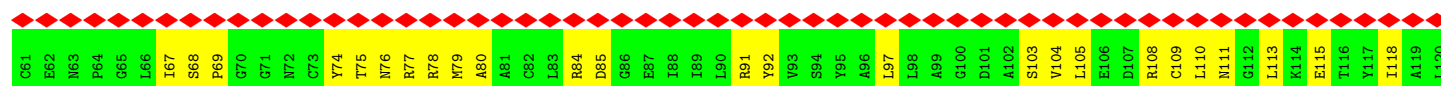
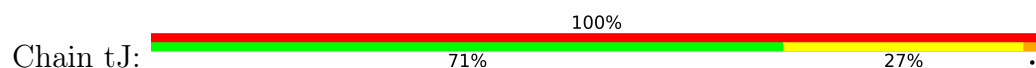
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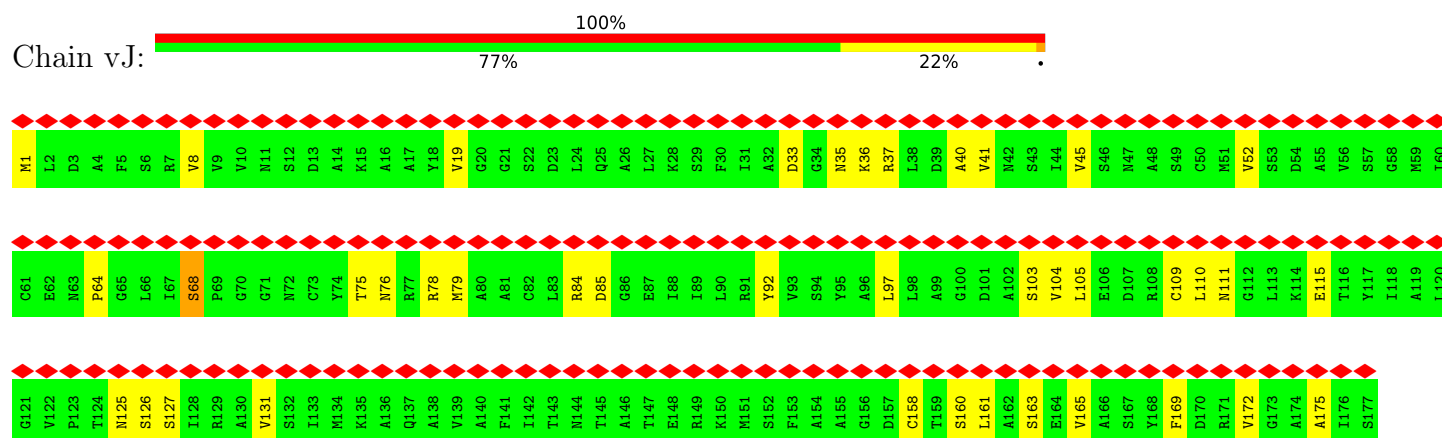
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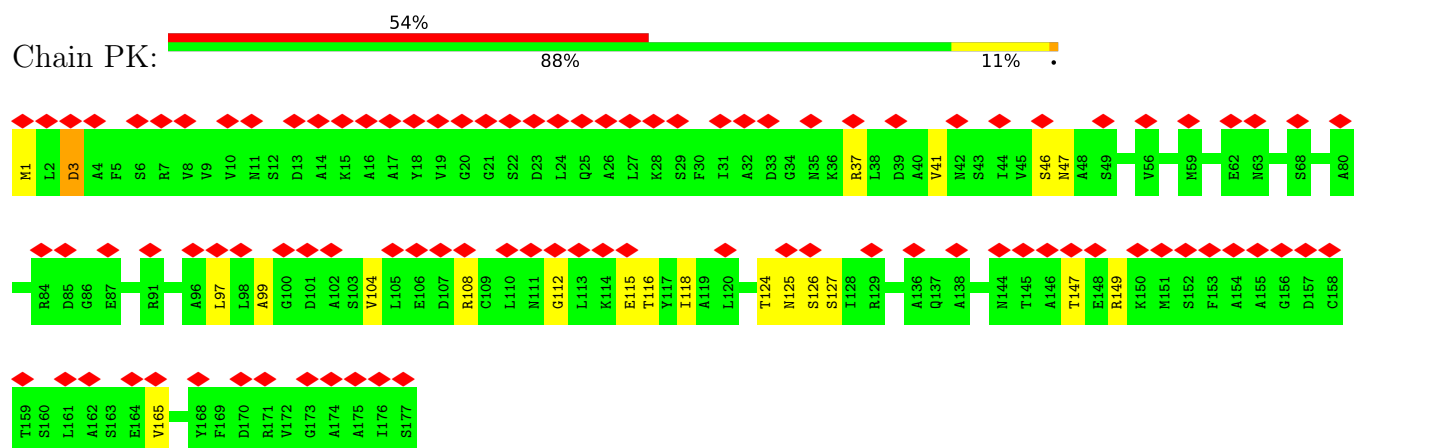
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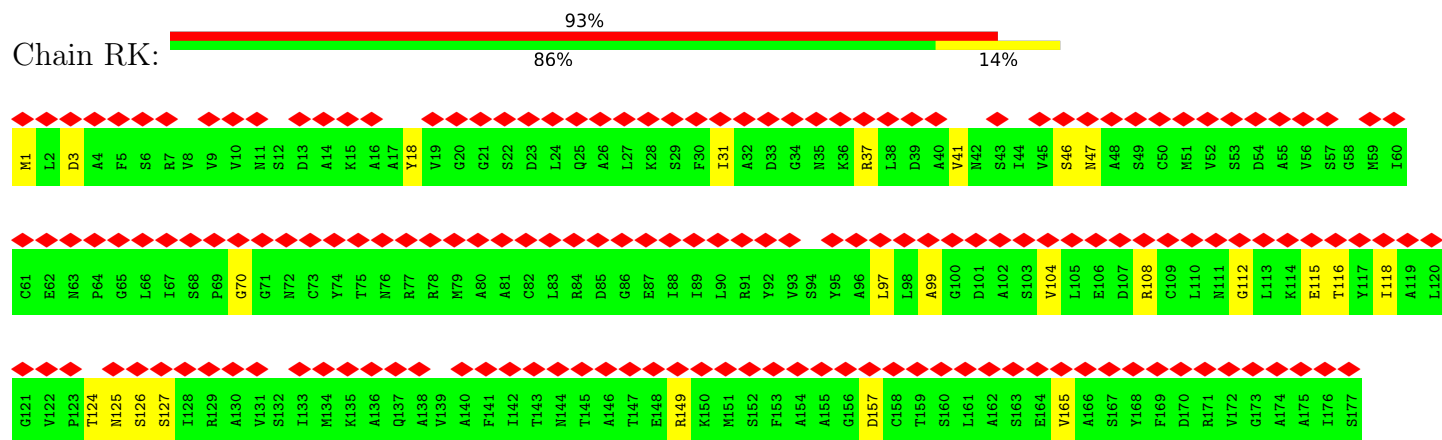
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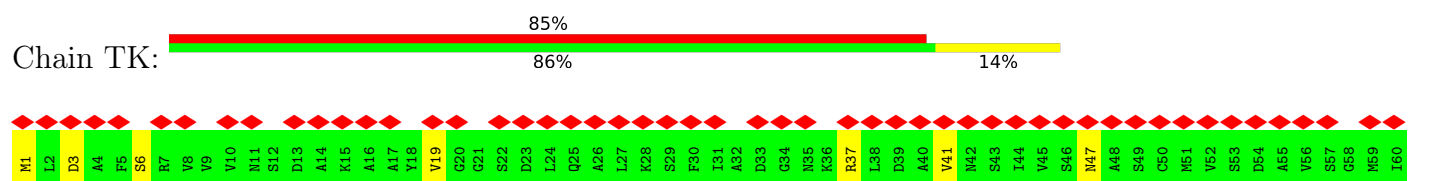
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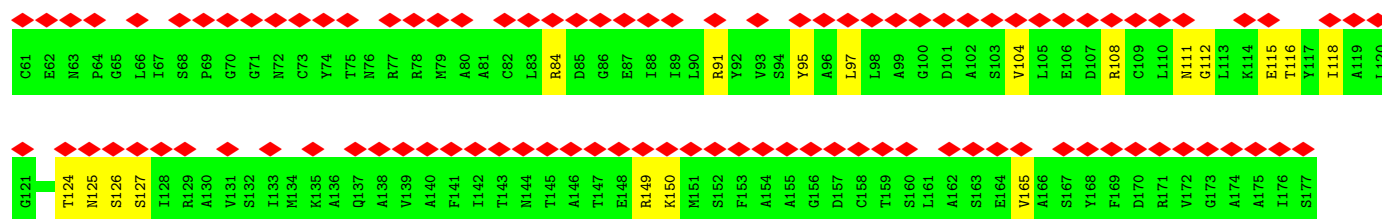


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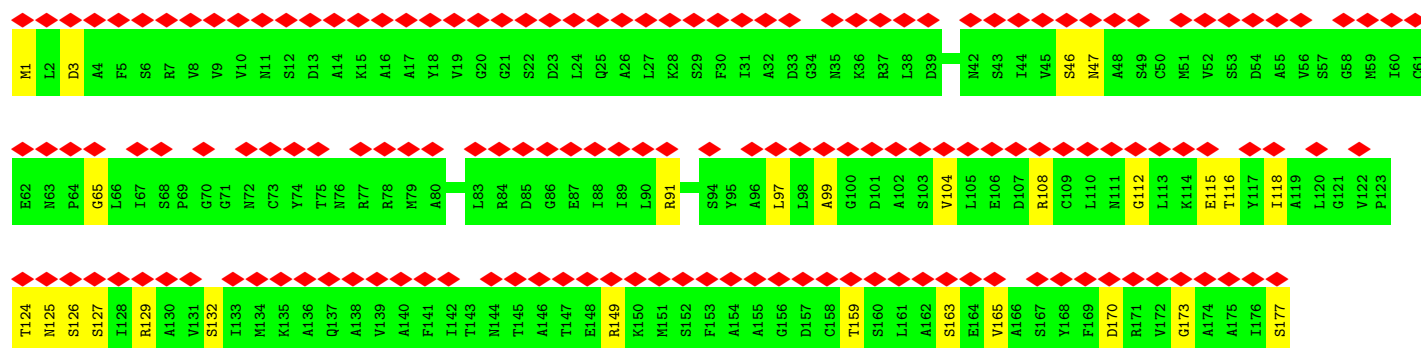
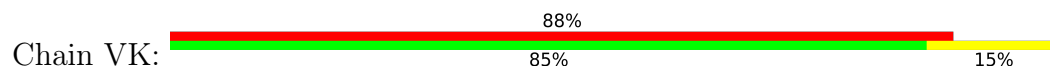


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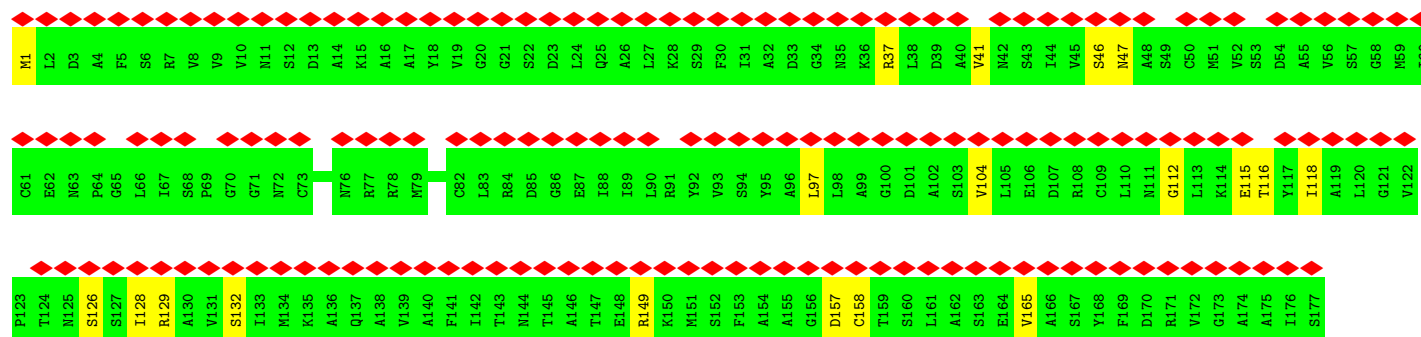
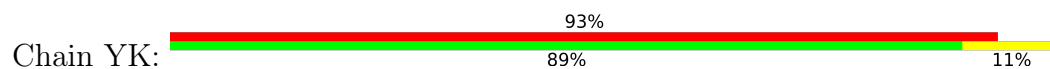




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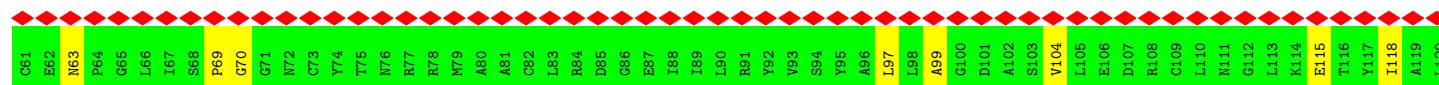
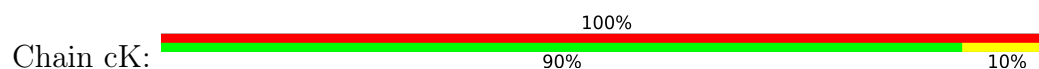


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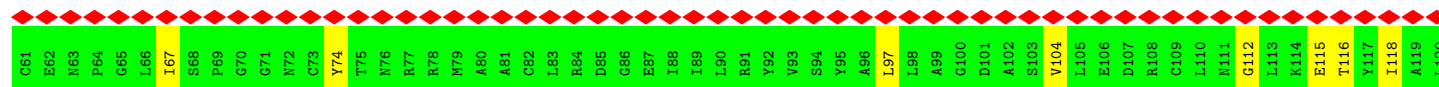
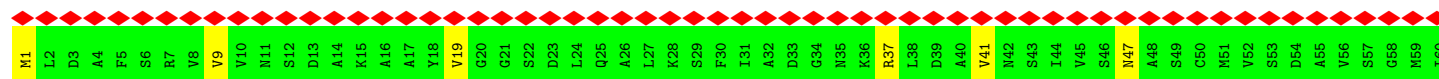
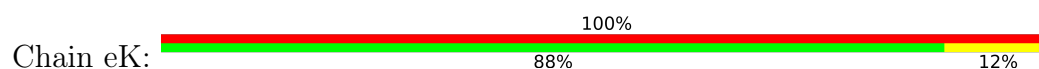




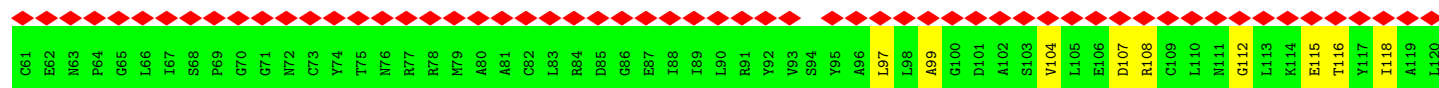
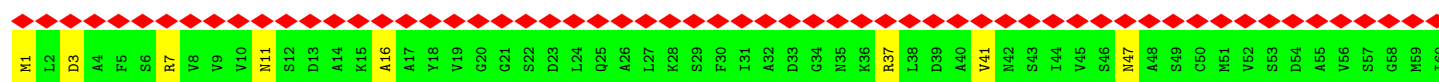
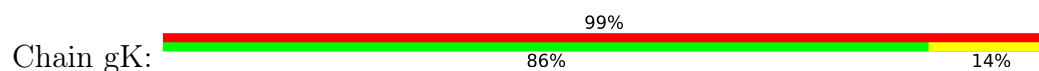
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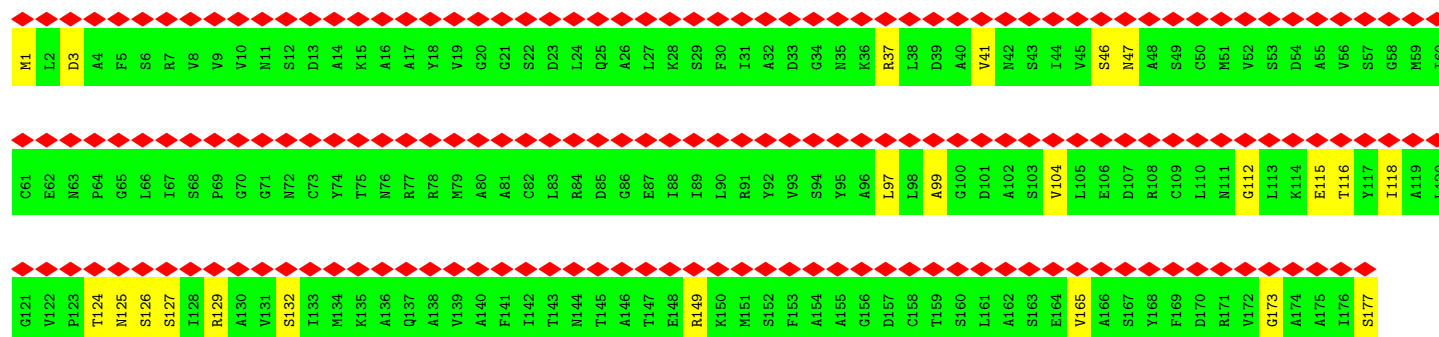
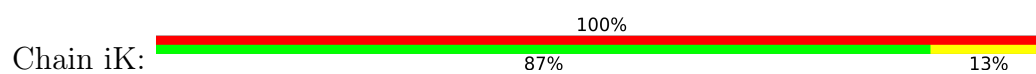
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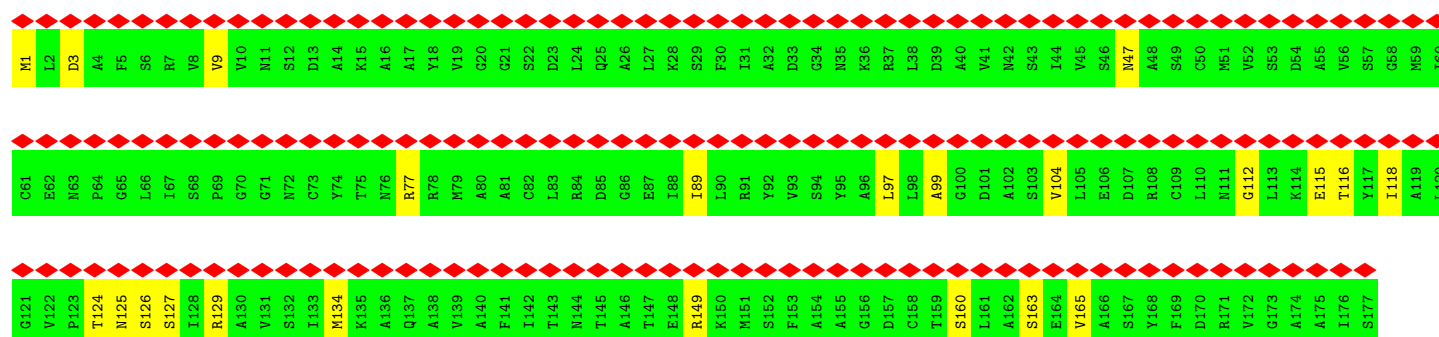
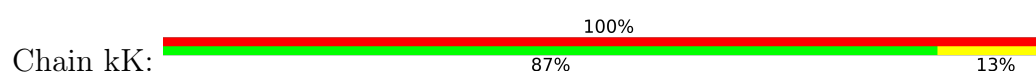
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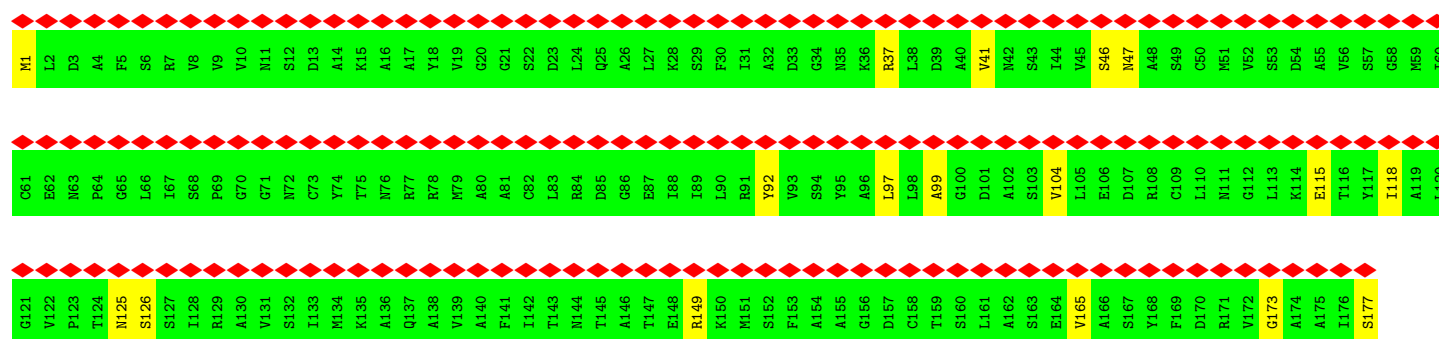
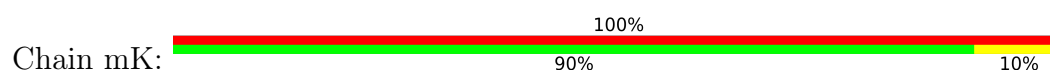
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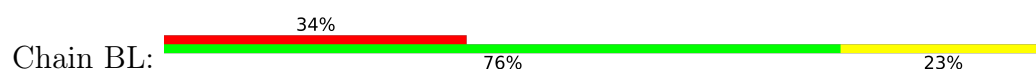
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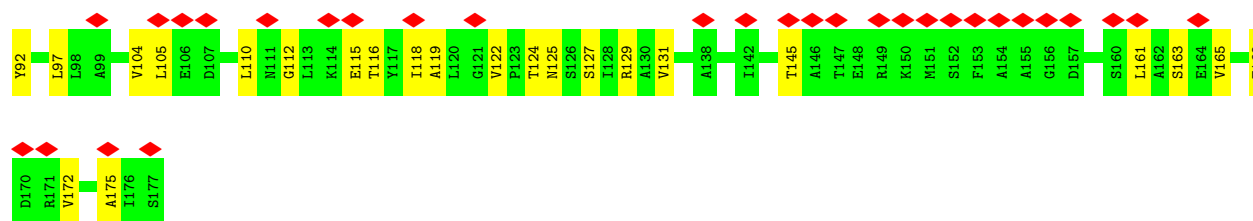


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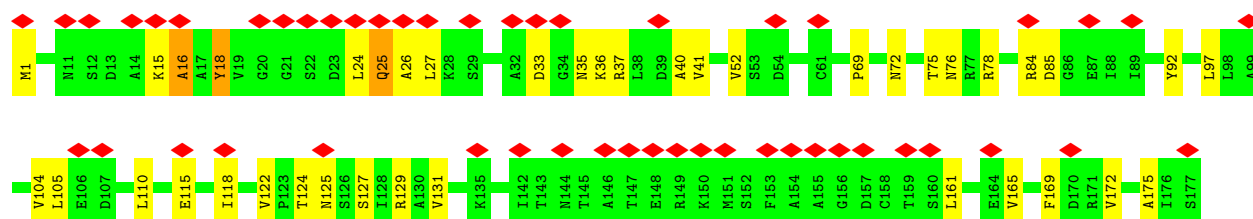
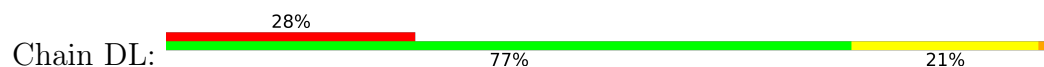


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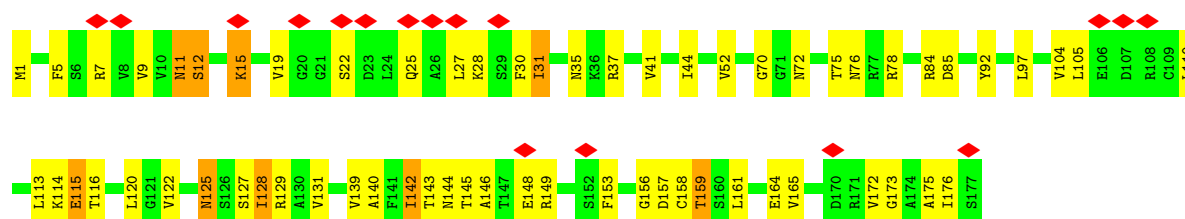




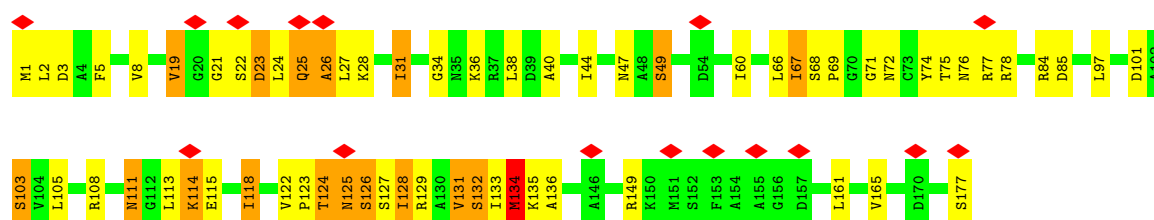
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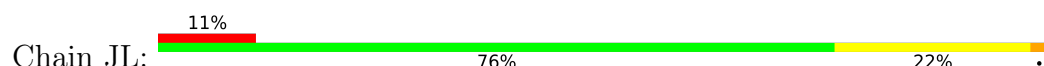
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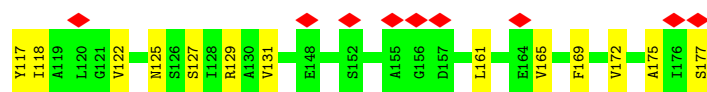


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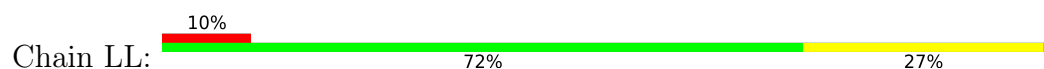


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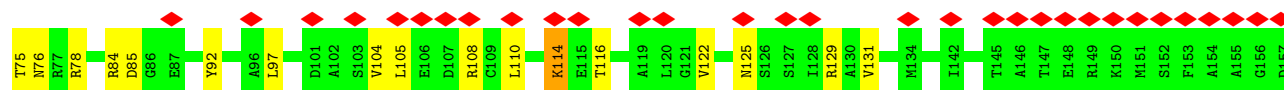
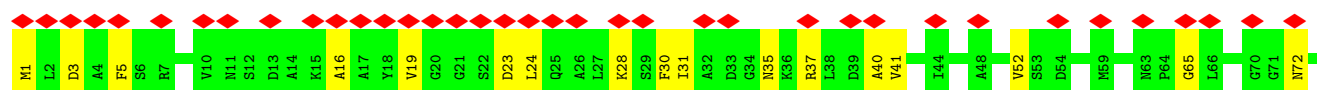
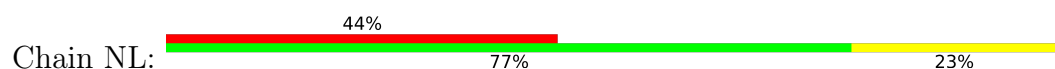




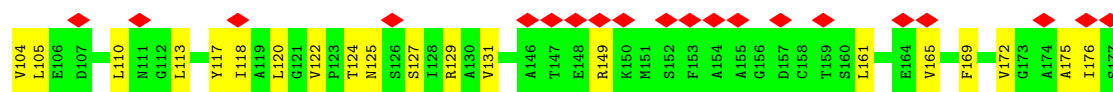
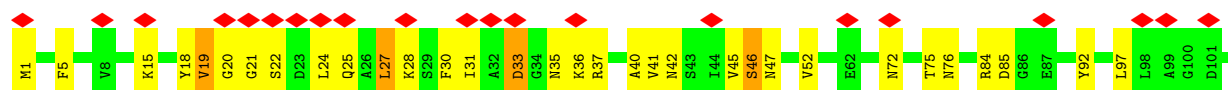
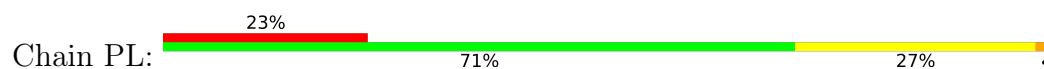
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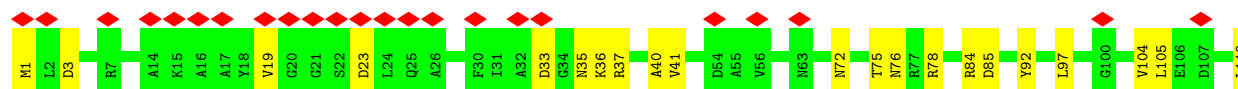
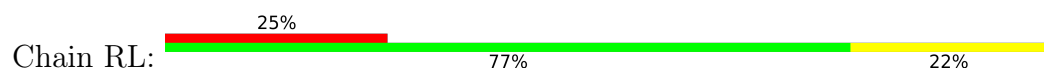
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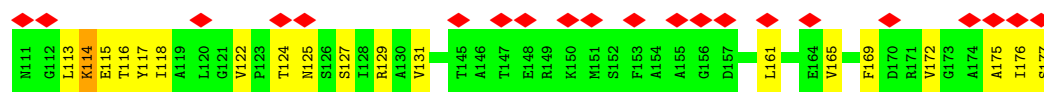


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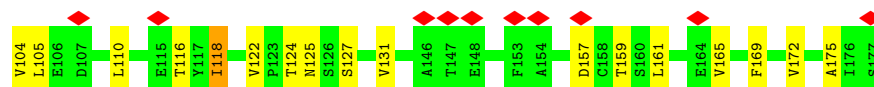
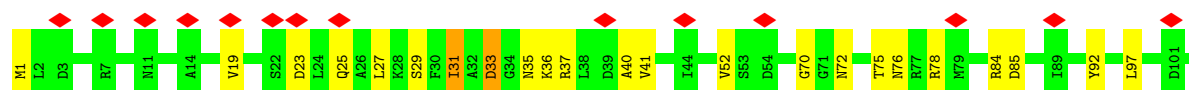
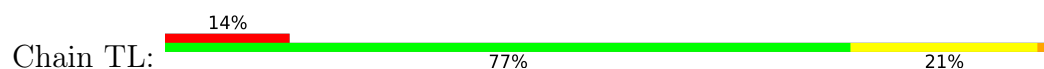


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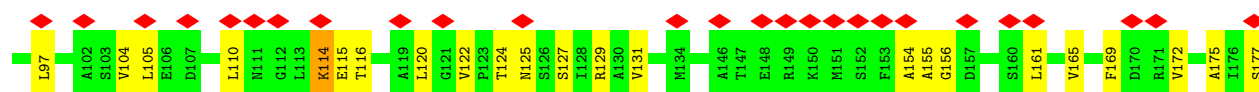
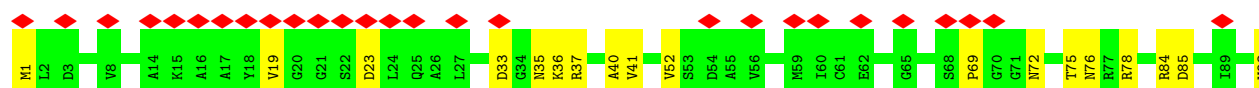
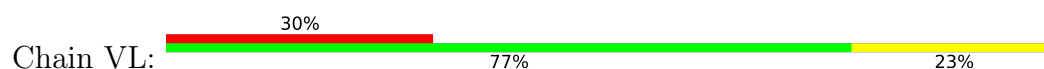




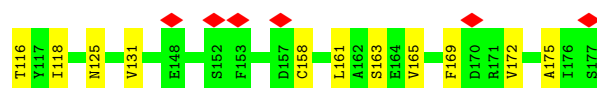
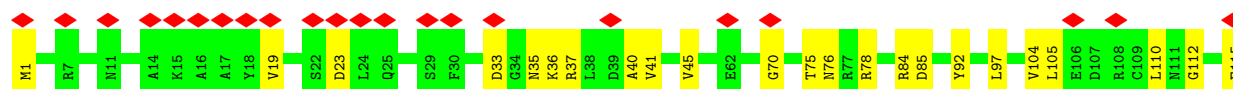
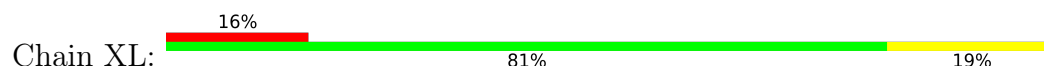
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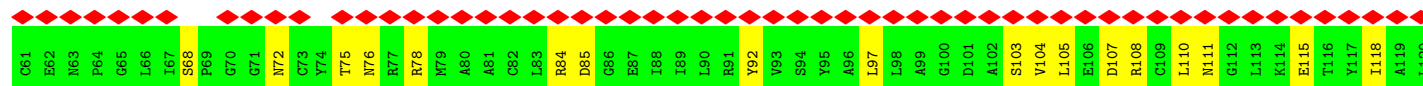
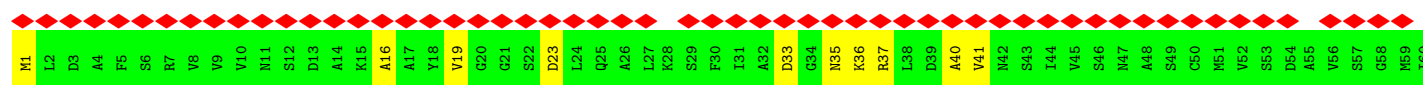
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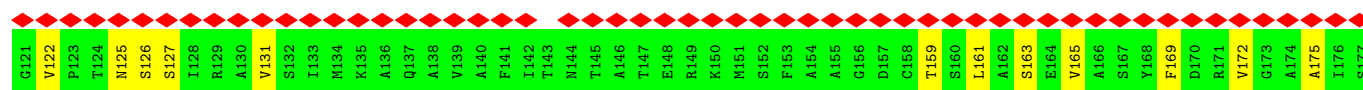


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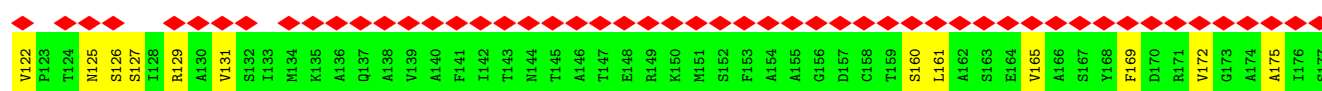
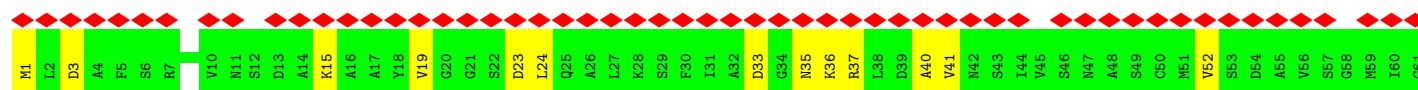
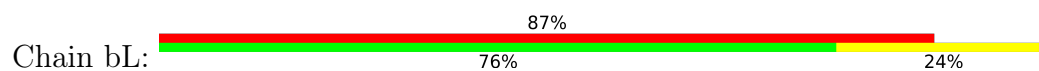


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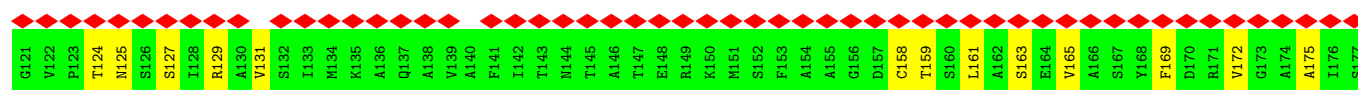
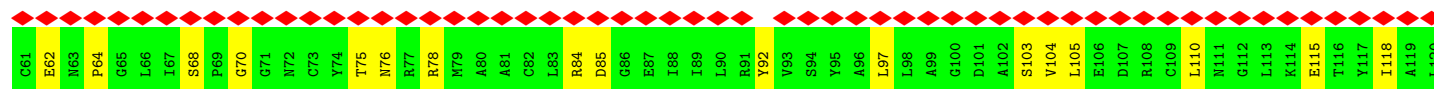
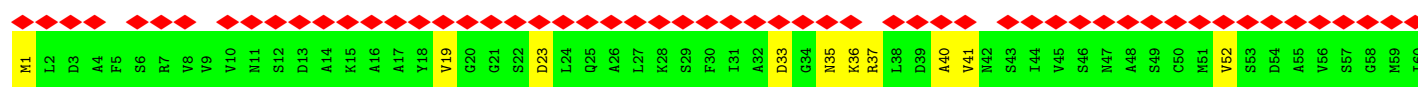
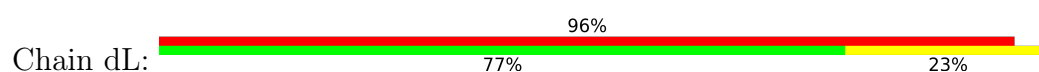




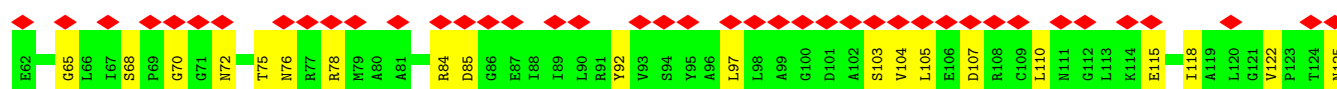
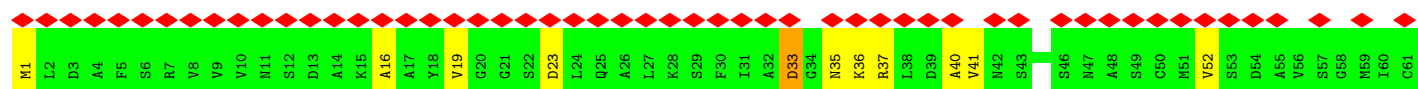
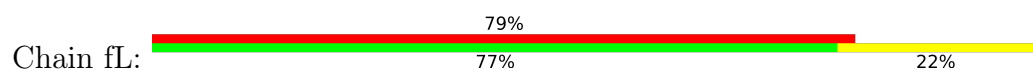
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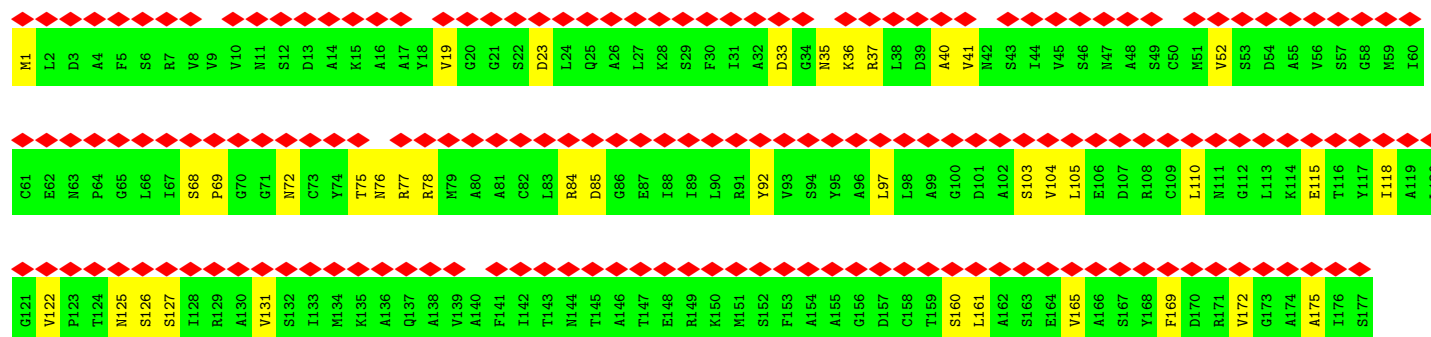
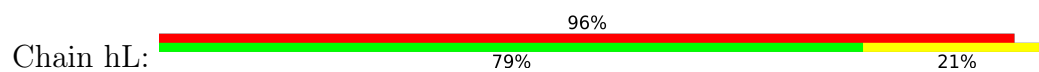
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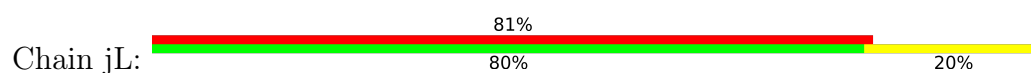
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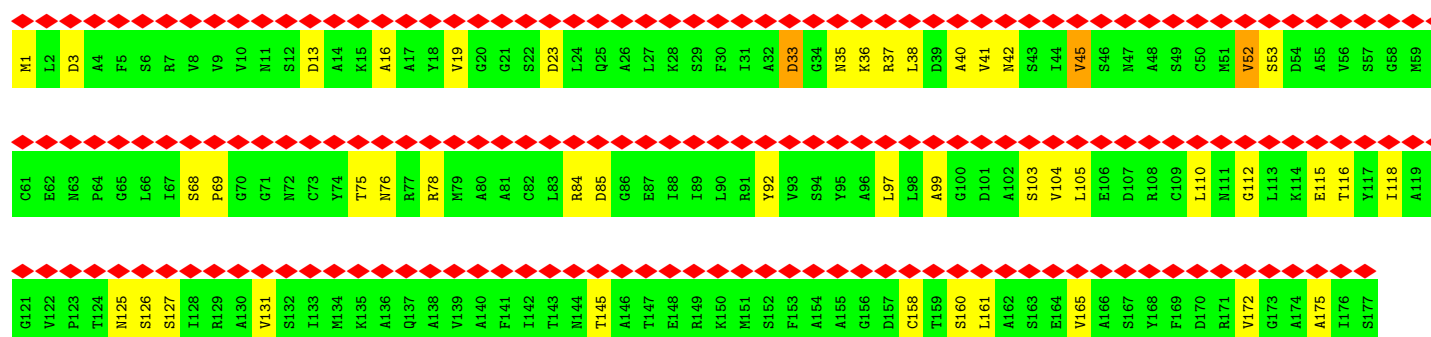
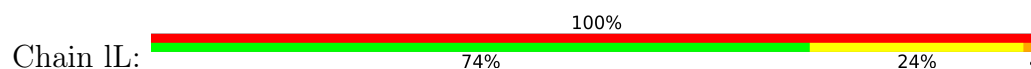
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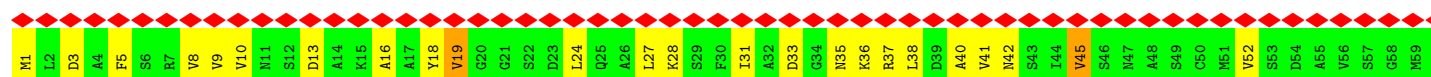
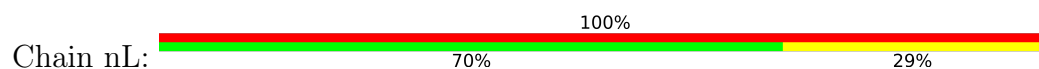
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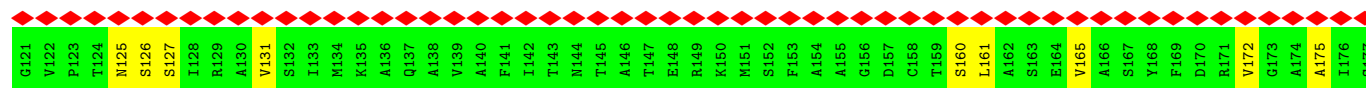


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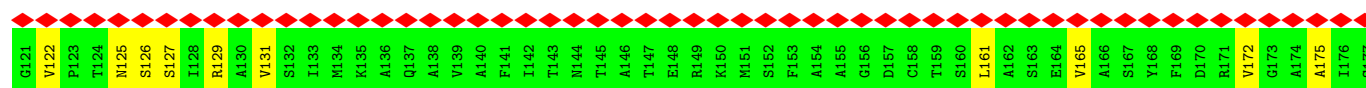
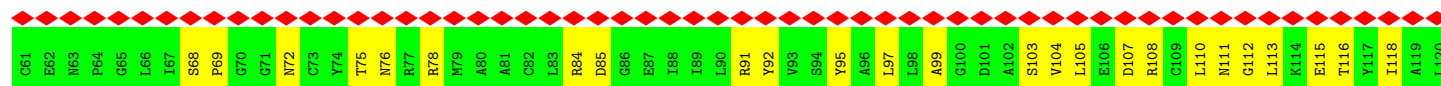
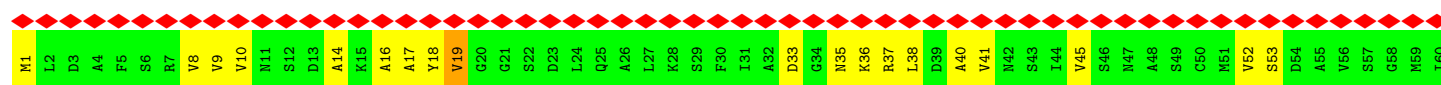


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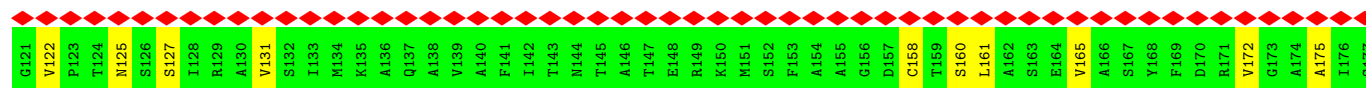
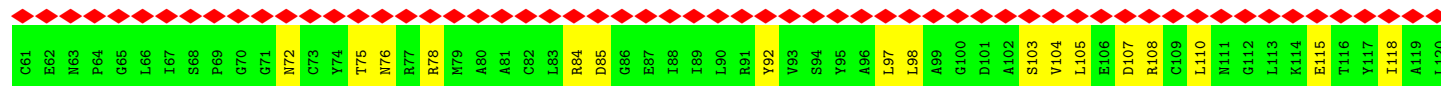
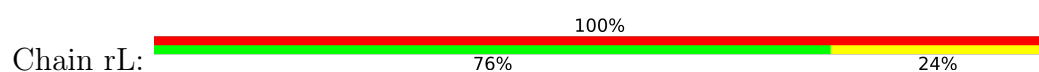




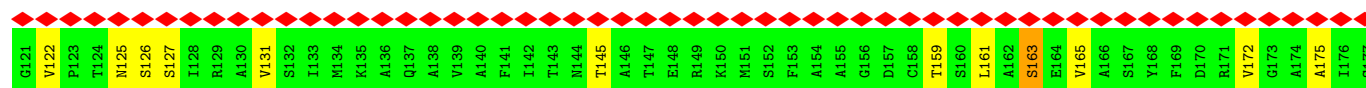
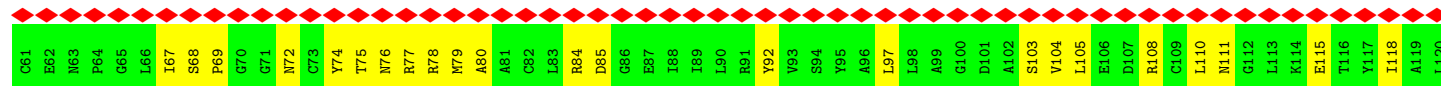
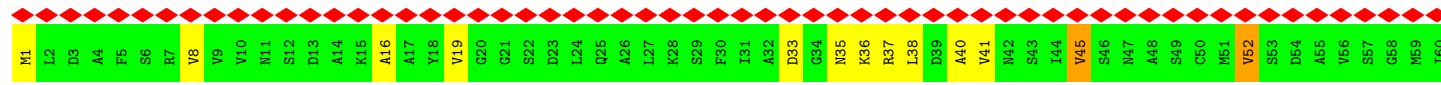
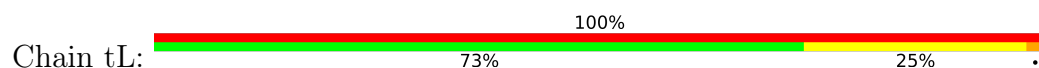
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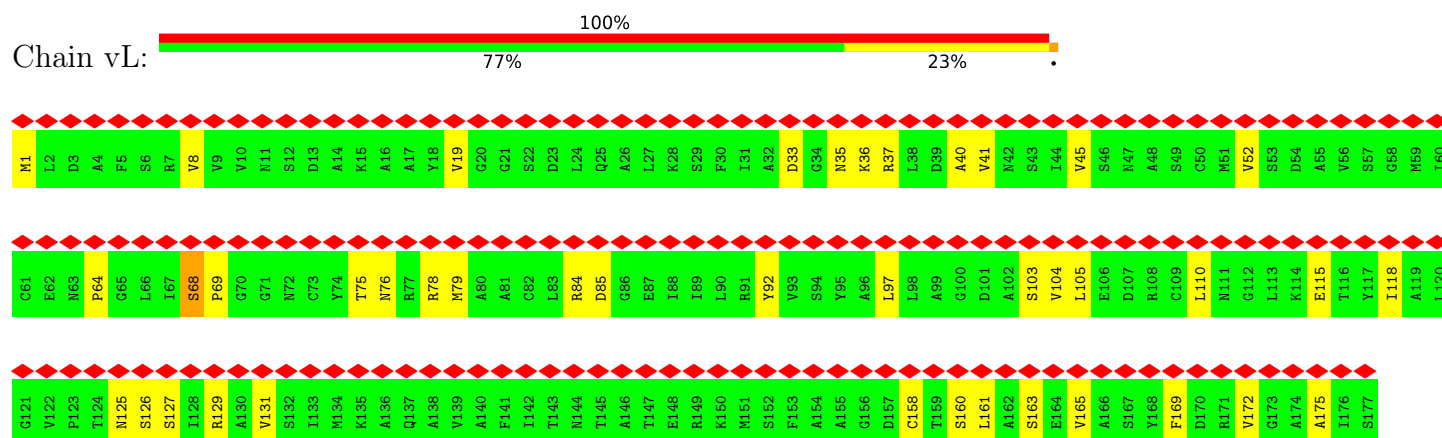
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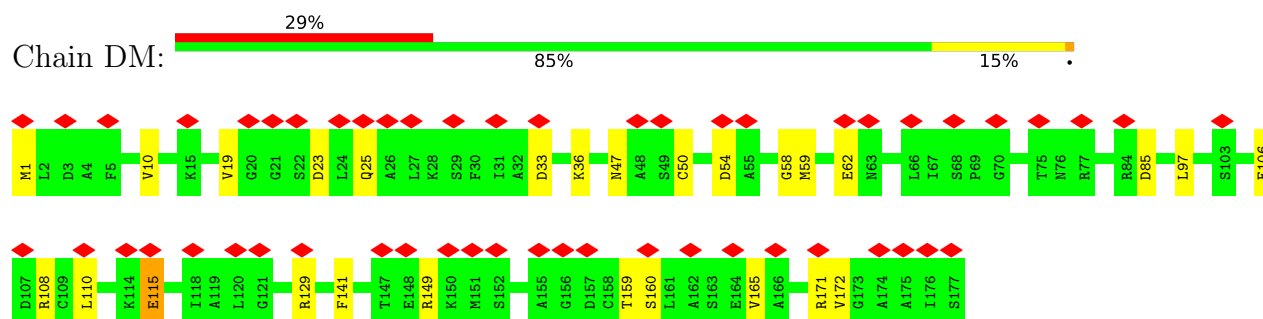
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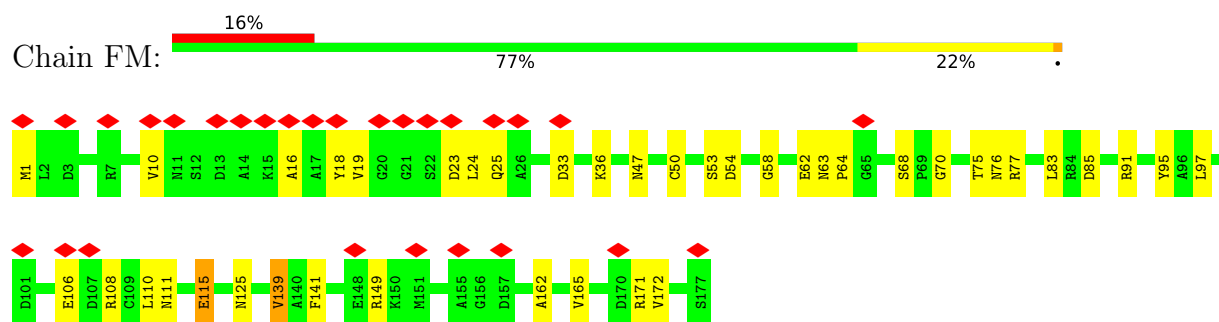
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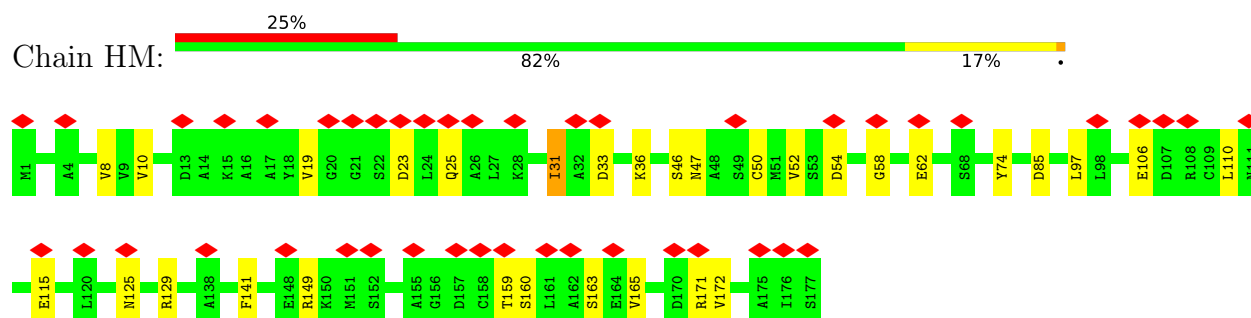
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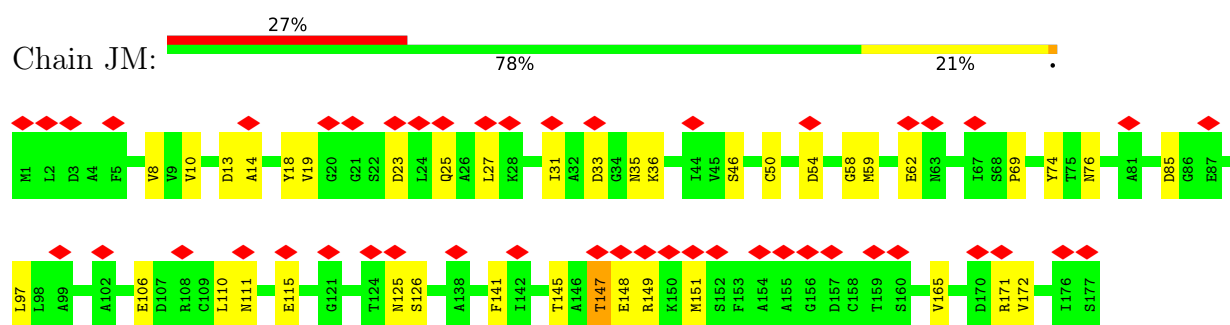
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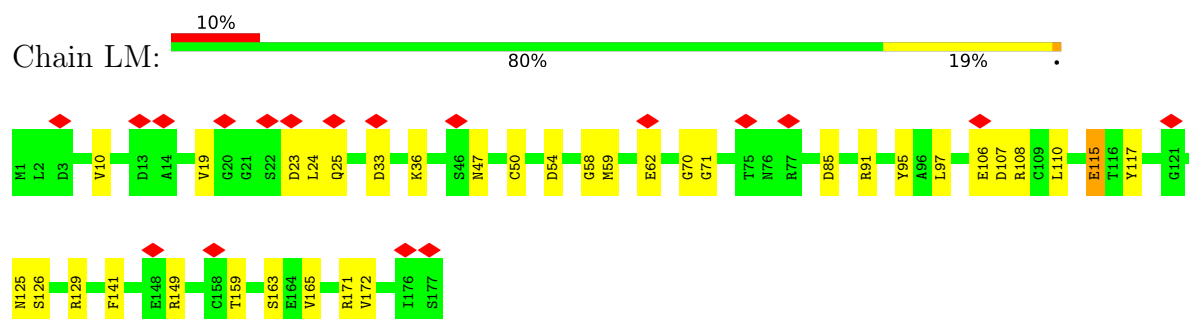
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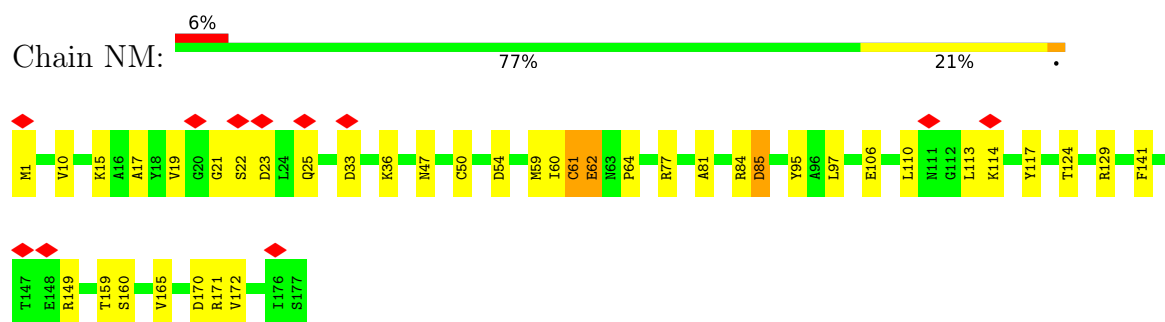
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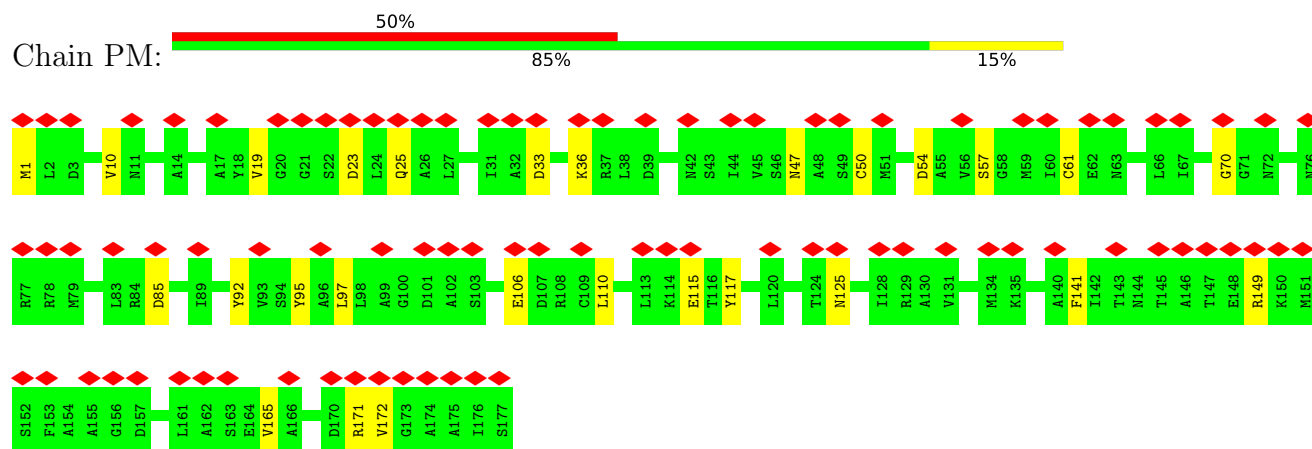
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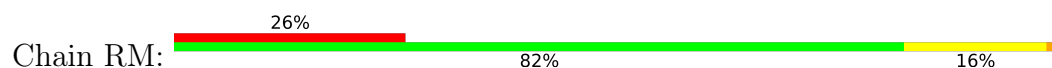
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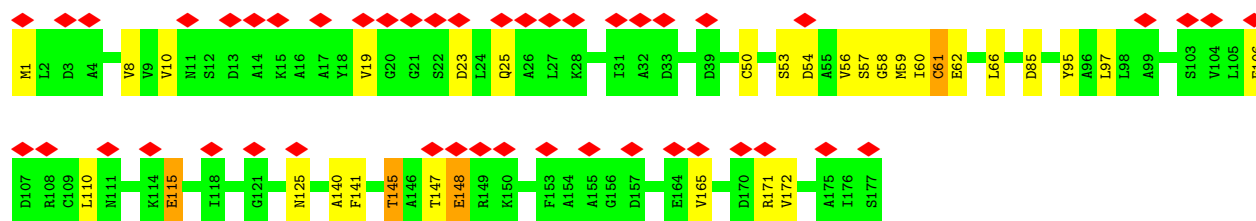


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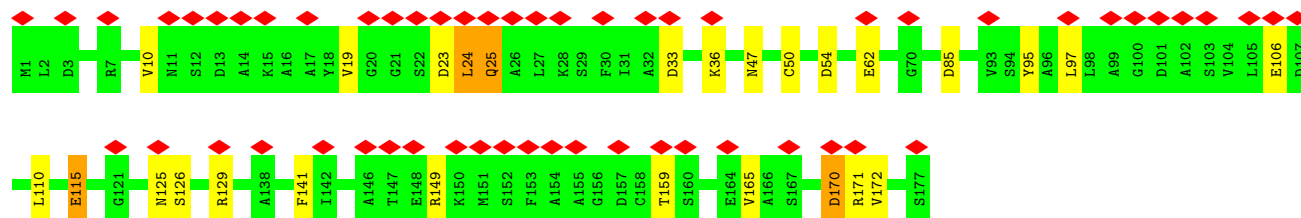
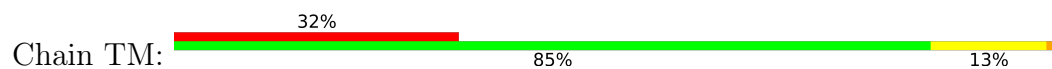


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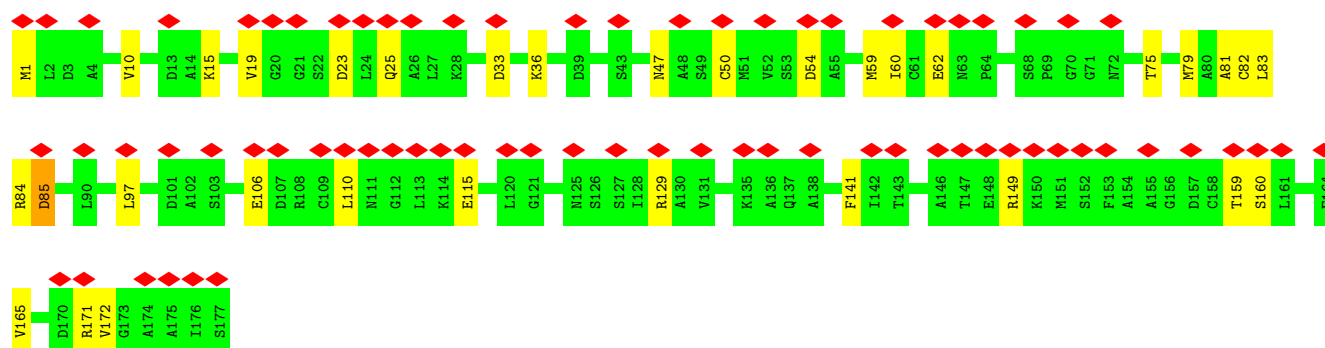
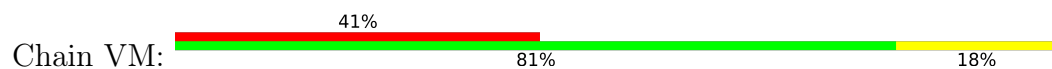




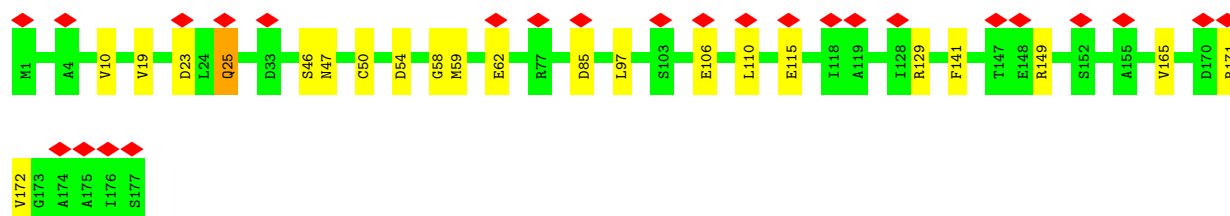
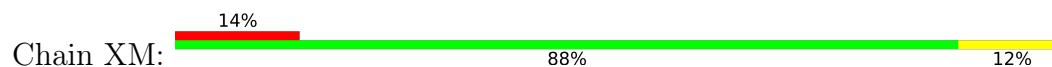
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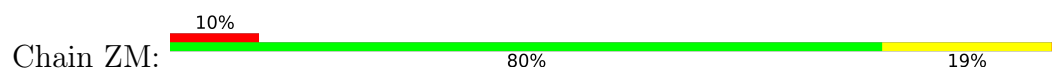
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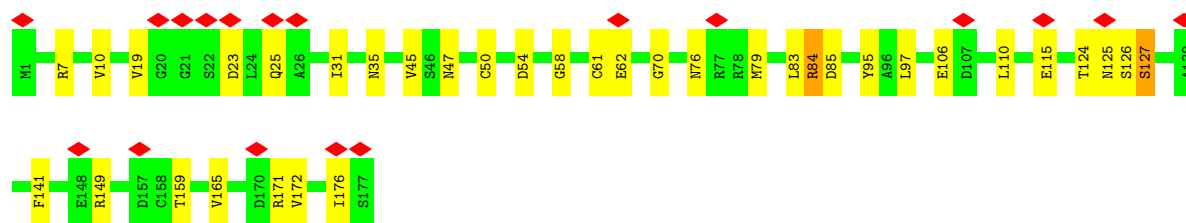


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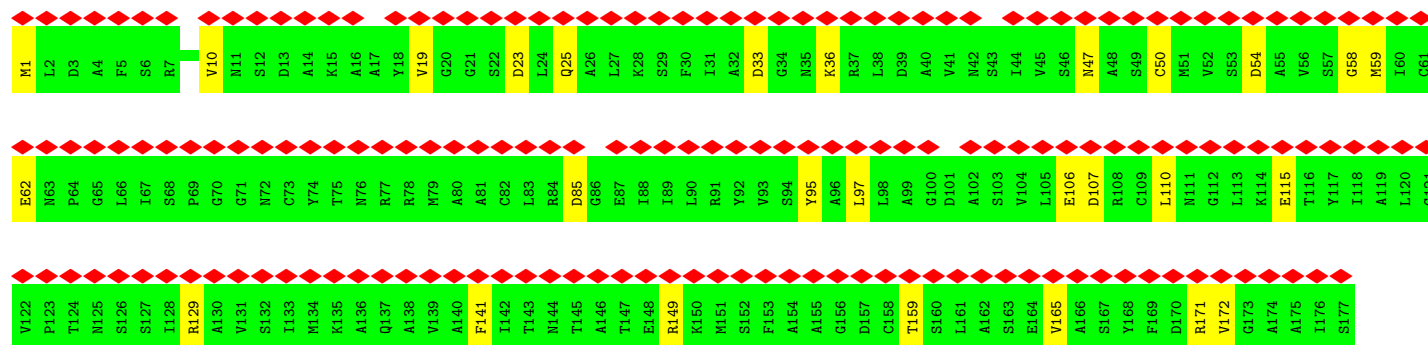
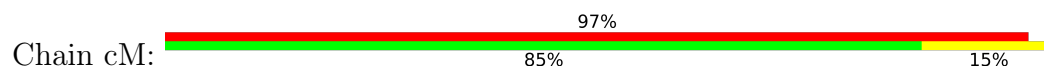


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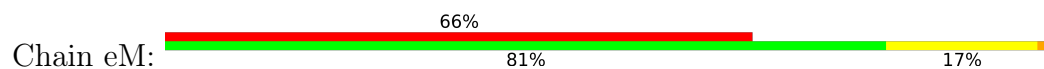




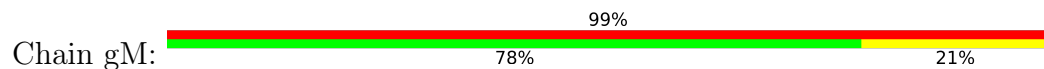
• Molecule 7: B-phycoerythrin beta chain



• Molecule 7: B-phycoerythrin beta chain

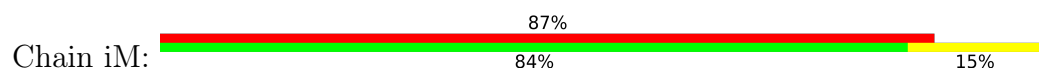


• Molecule 7: B-phycoerythrin beta chain

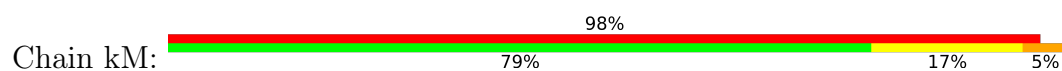




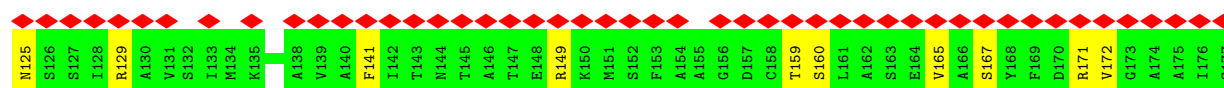
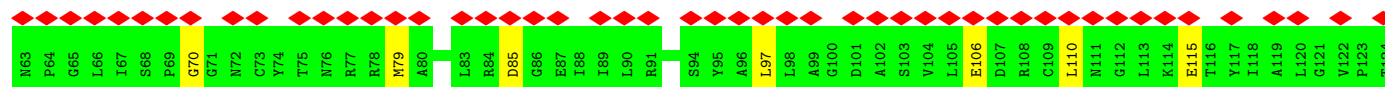
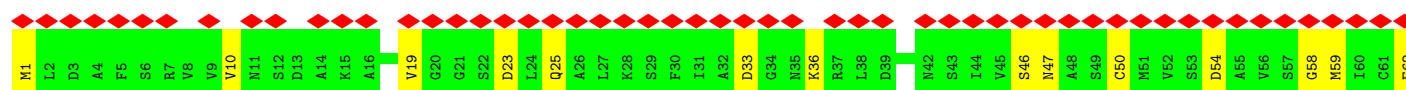
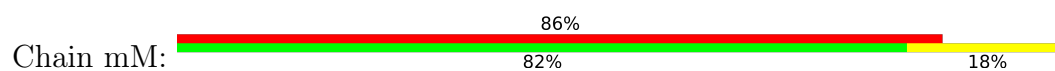
• Molecule 7: B-phycoerythrin beta chain



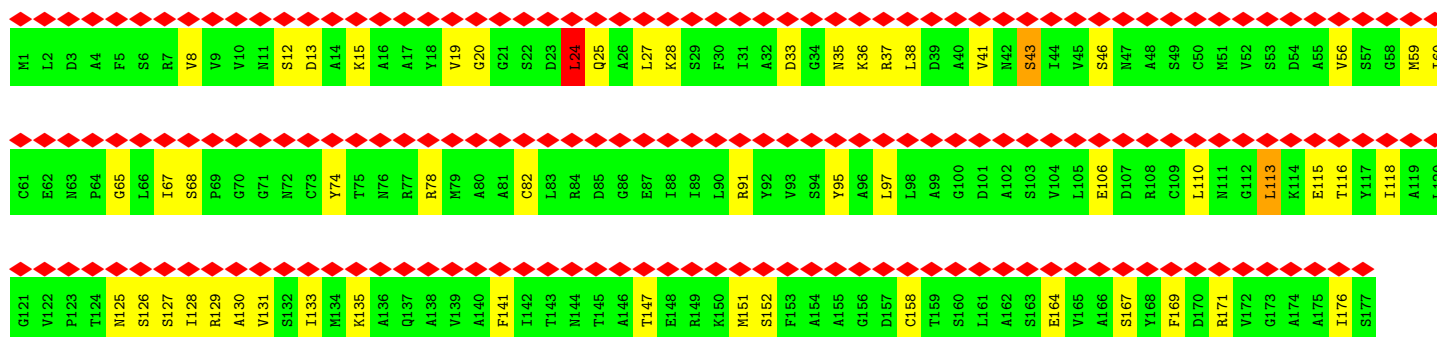
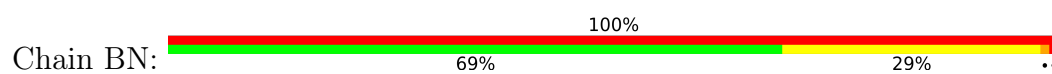
• Molecule 7: B-phycoerythrin beta chain



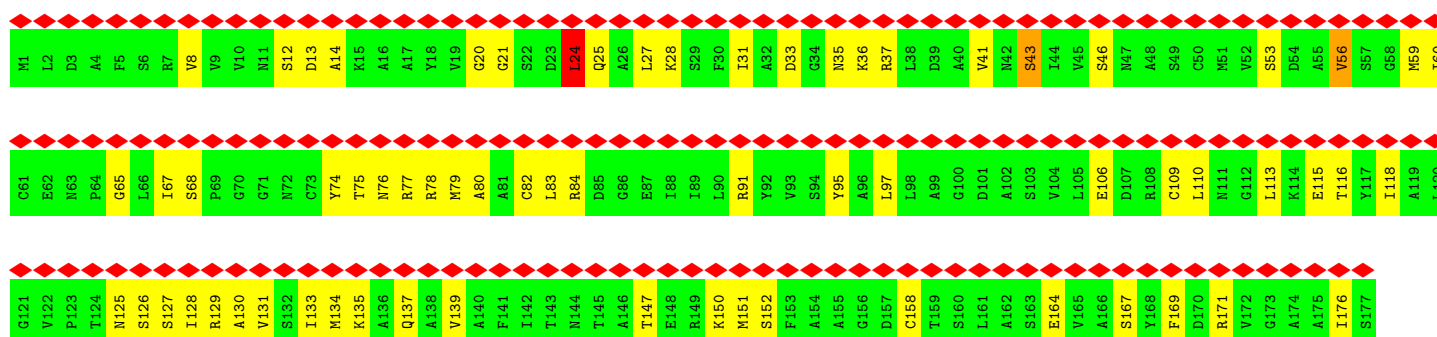
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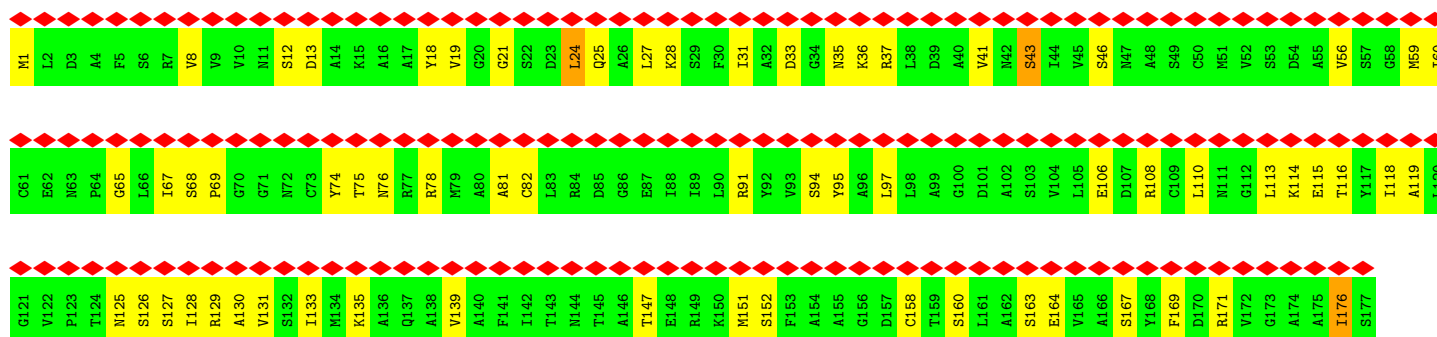
• Molecule 7: B-phycoerythrin beta chain



• Molecule 7: B-phycoerythrin beta chain

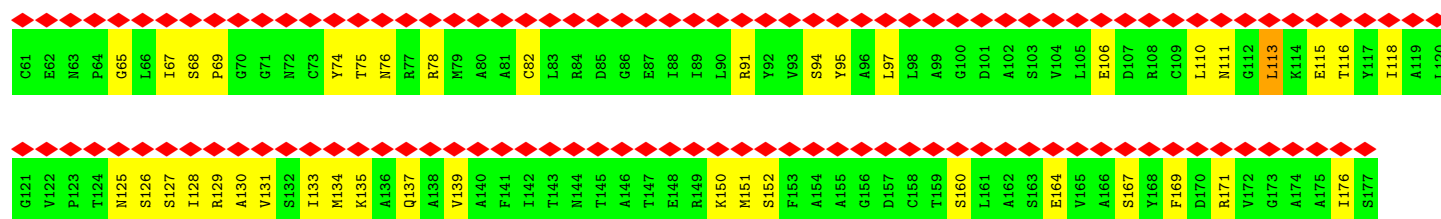


• Molecule 7: B-phycoerythrin beta chain

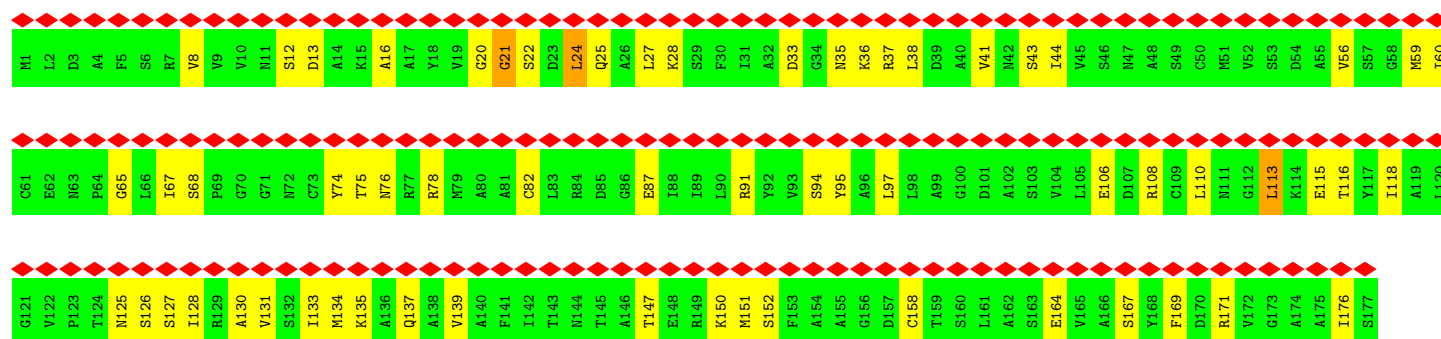


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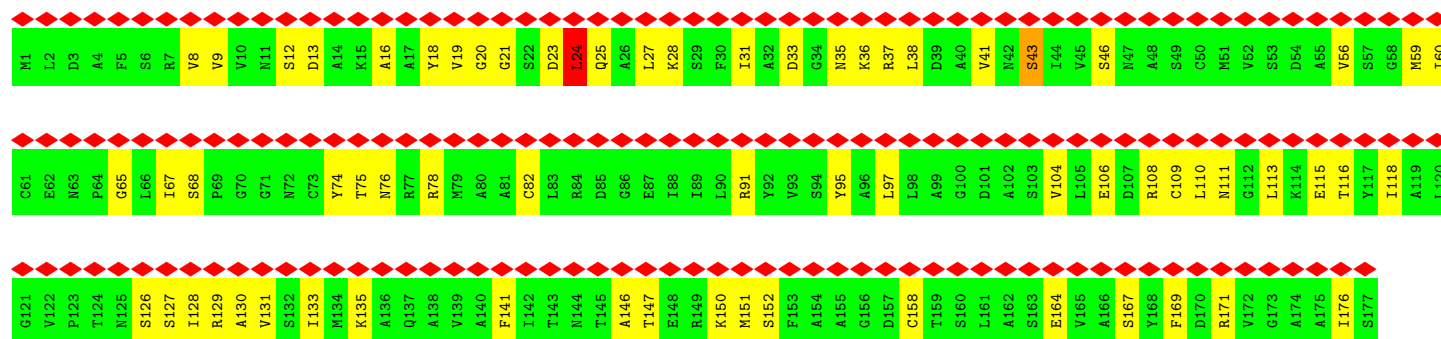




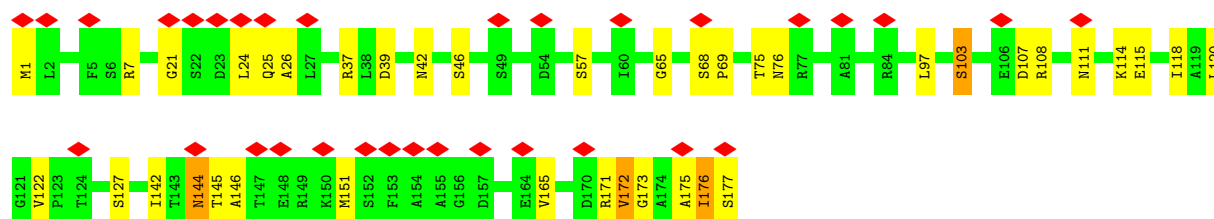
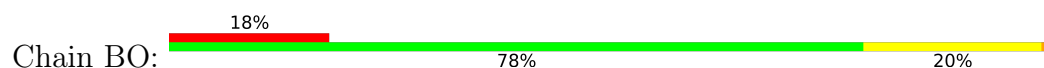
• Molecule 7: B-phycoerythrin beta chain



• Molecule 7: B-phycoerythrin beta chain

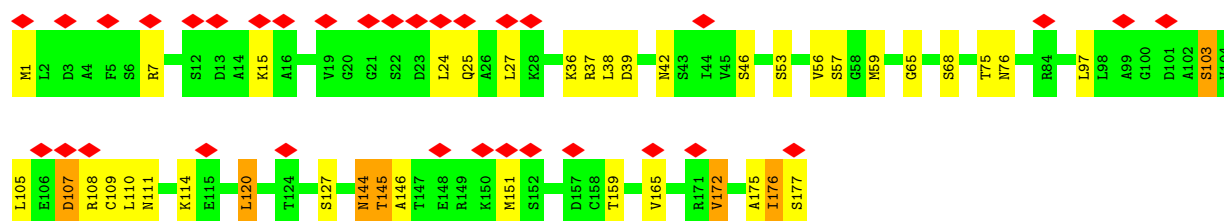


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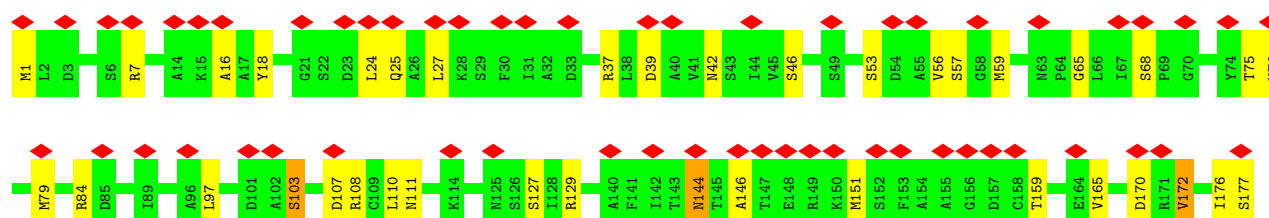
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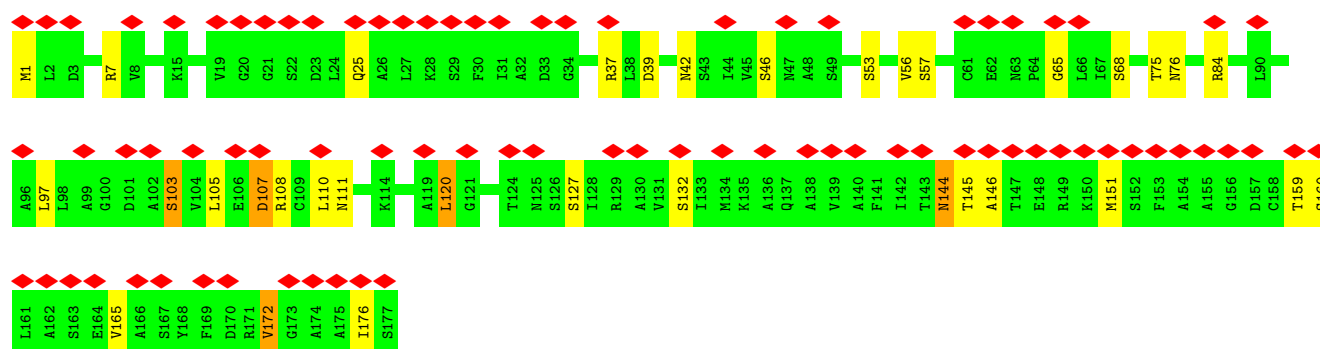
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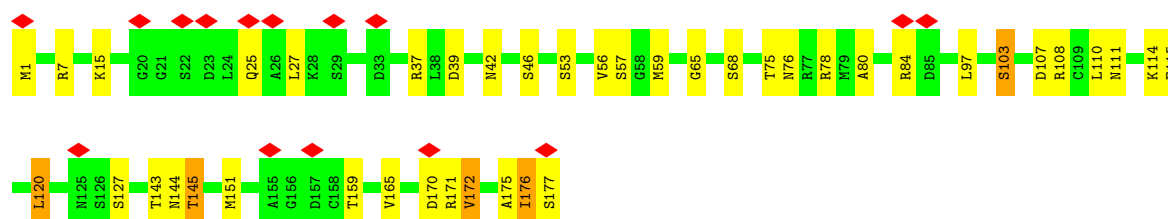
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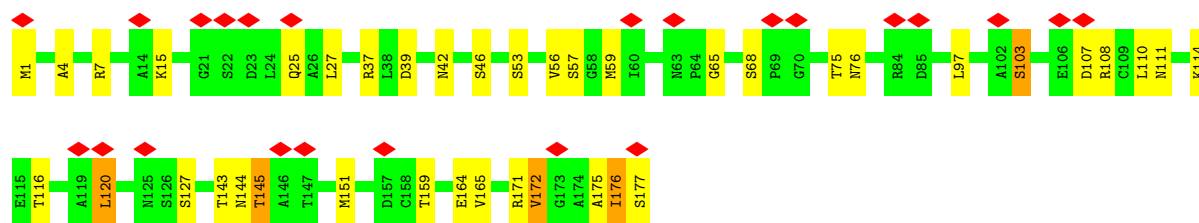
• Molecule 7: B-phycoerythrin beta chain

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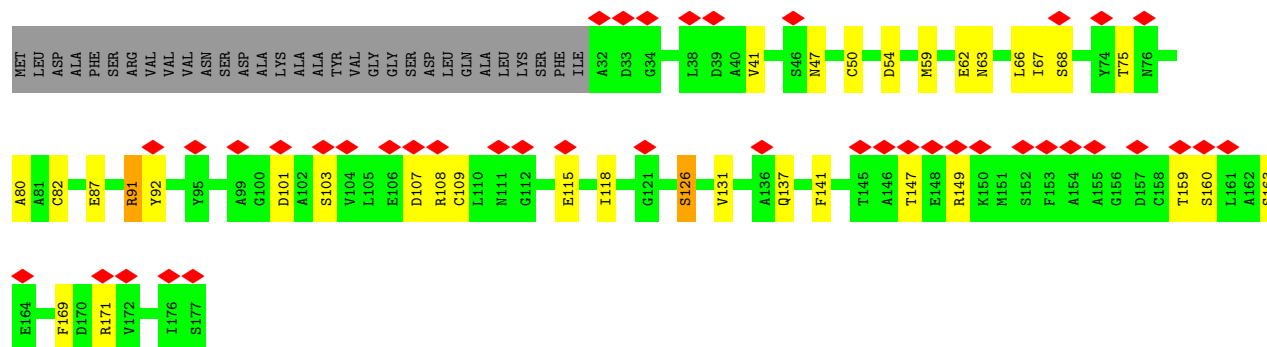


• Molecule 7: B-phycoerythrin beta chain

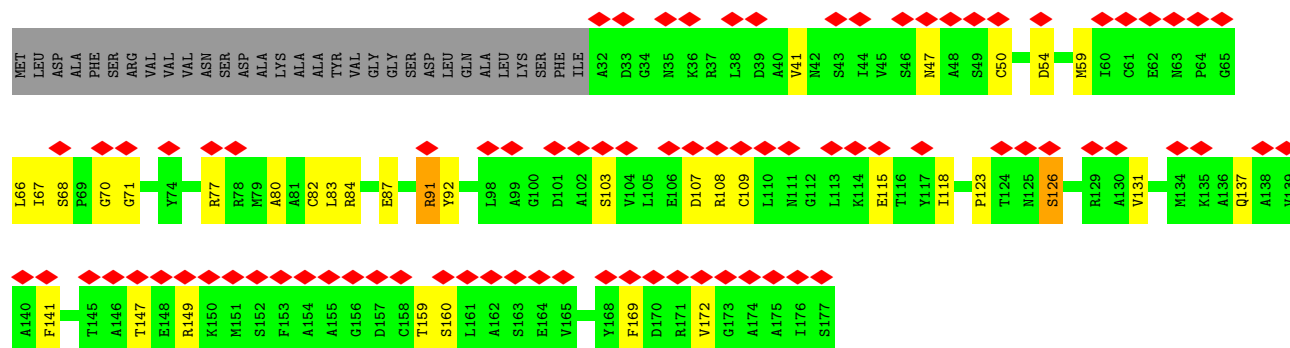
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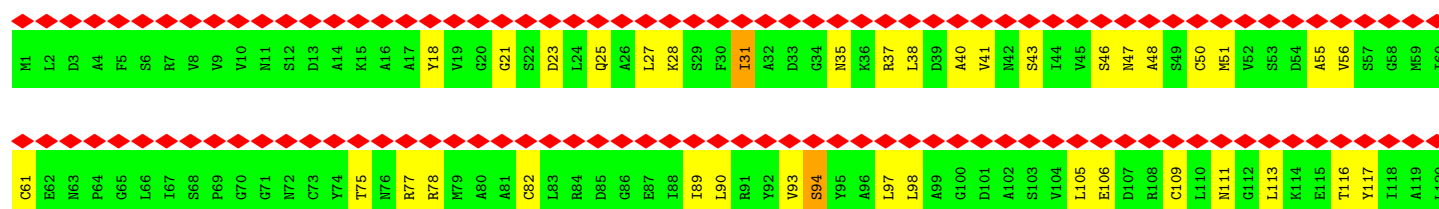
• Molecule 7: B-phycoerythrin beta chain



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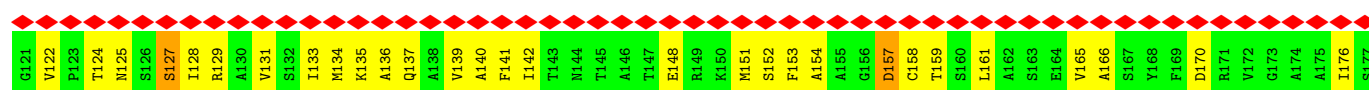




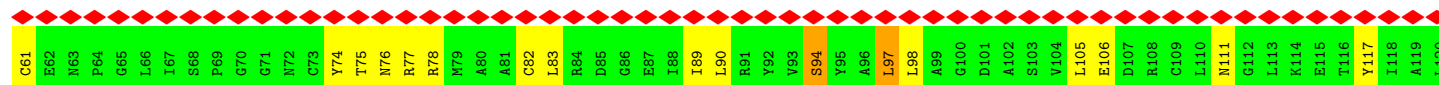
• Molecule 7: B-phycoerythrin beta chain



• Molecule 7: B-phycoerythrin beta chain



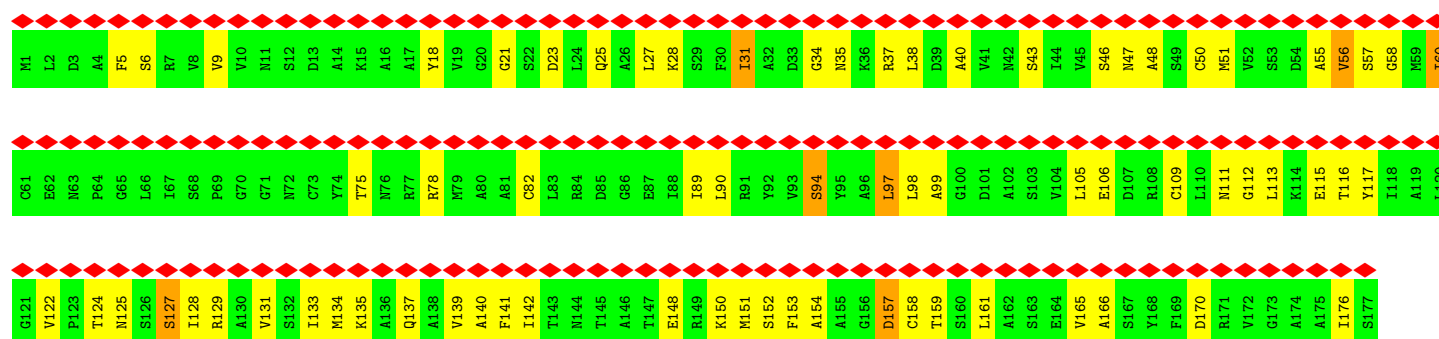
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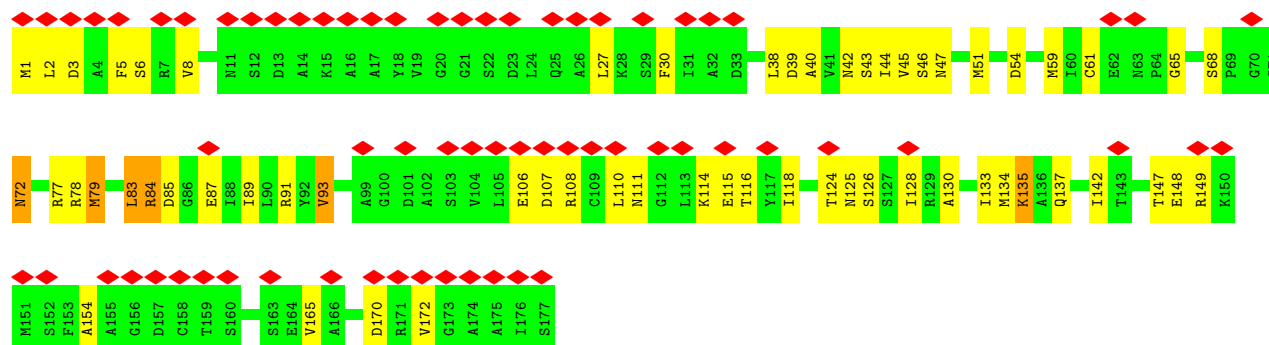
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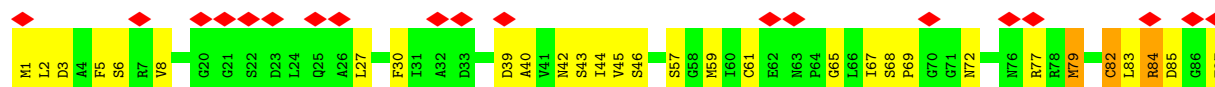
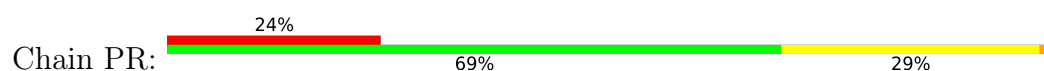
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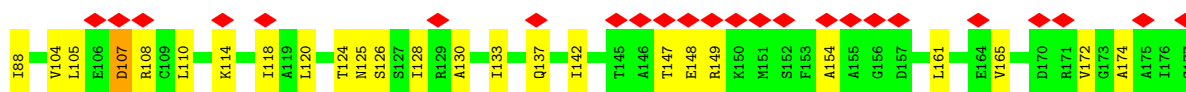


• Molecule 7: B-phycoerythrin beta chain

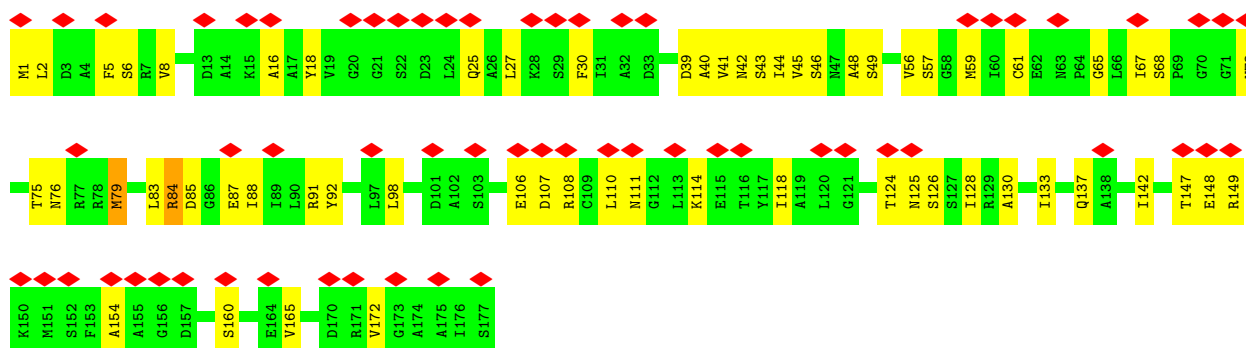


• Molecule 7: B-phycoerythrin beta chain

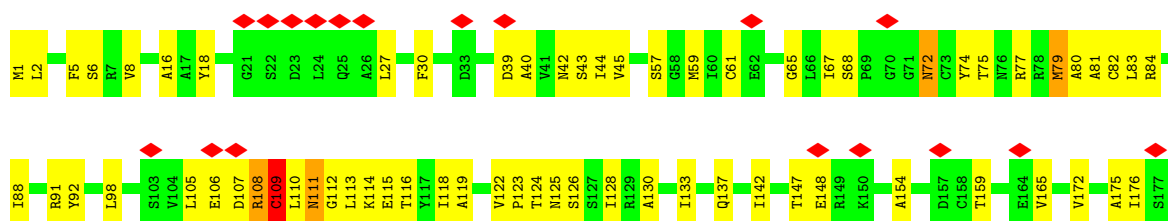




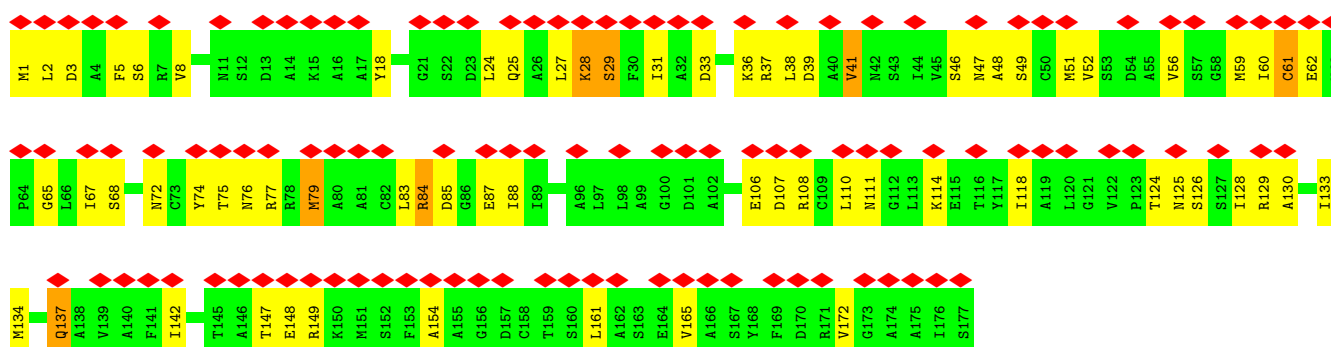
• Molecule 7: B-phycoerythrin beta chain



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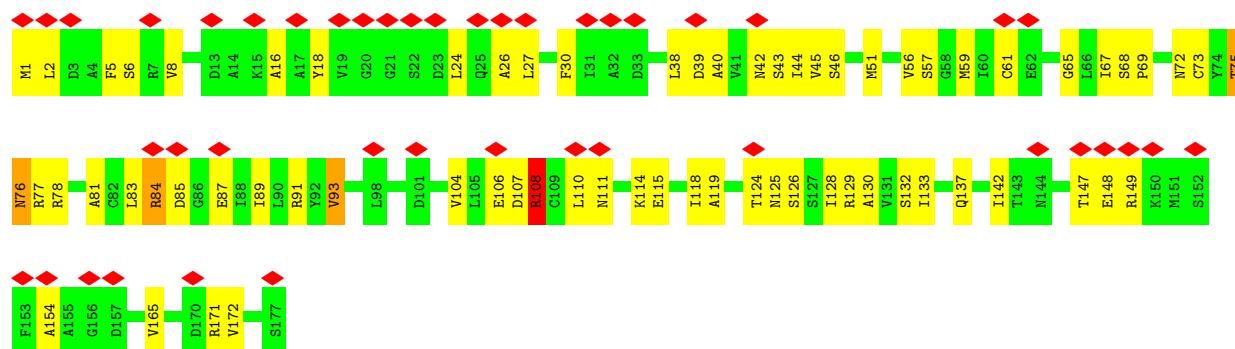


• Molecule 7: B-phycoerythrin beta chain

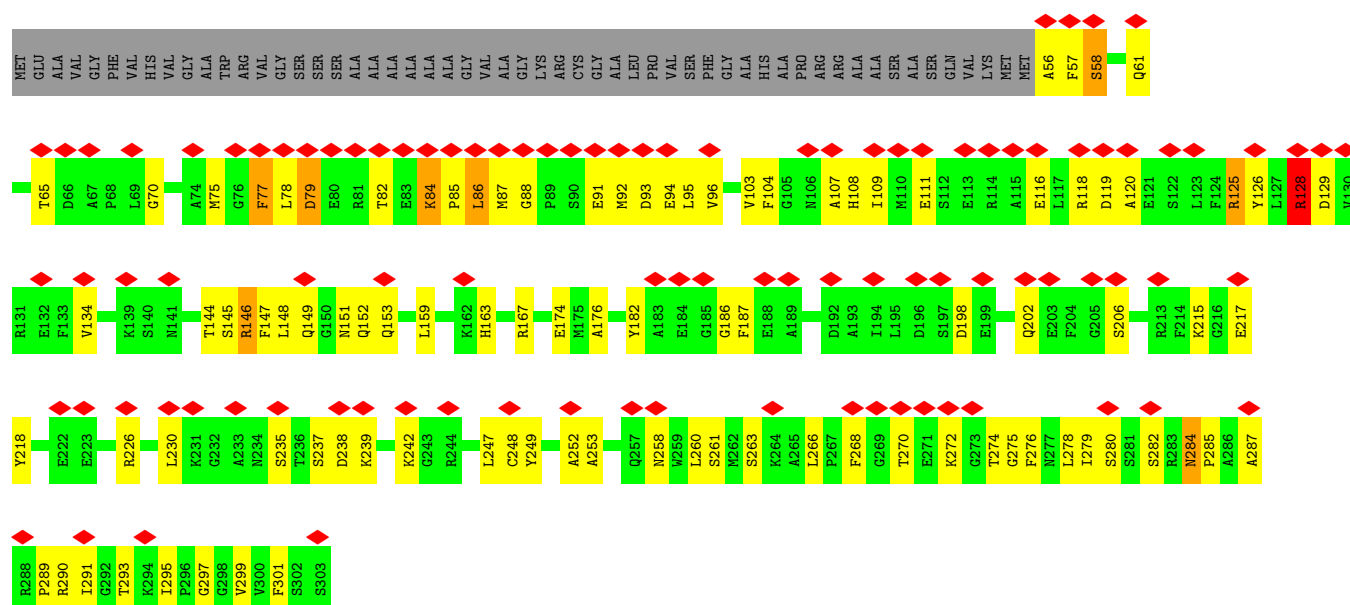


• Molecule 7: B-phycoerythrin beta chain

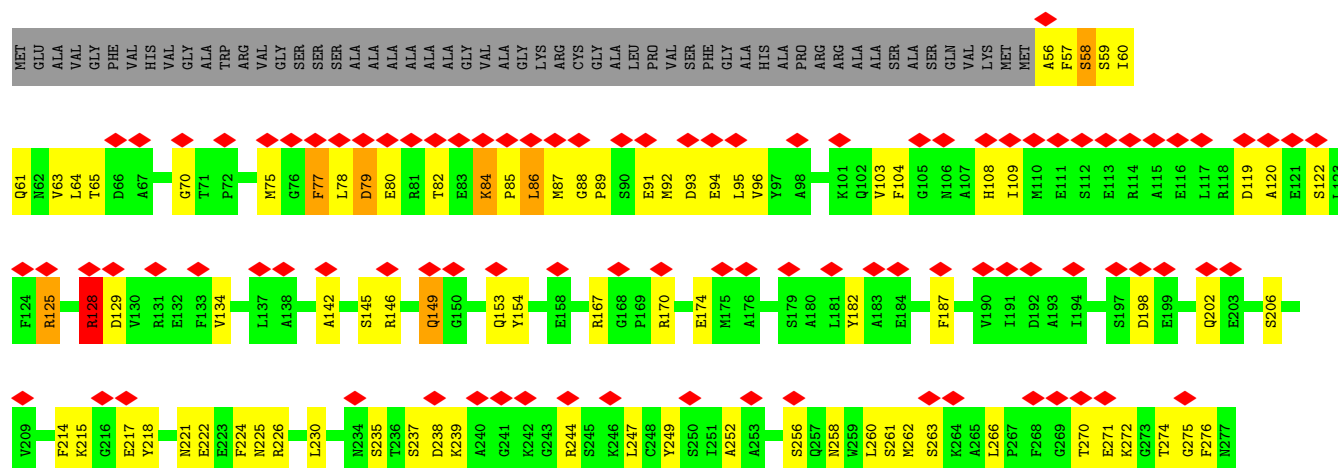


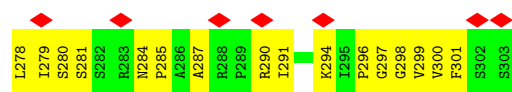


- Molecule 8: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

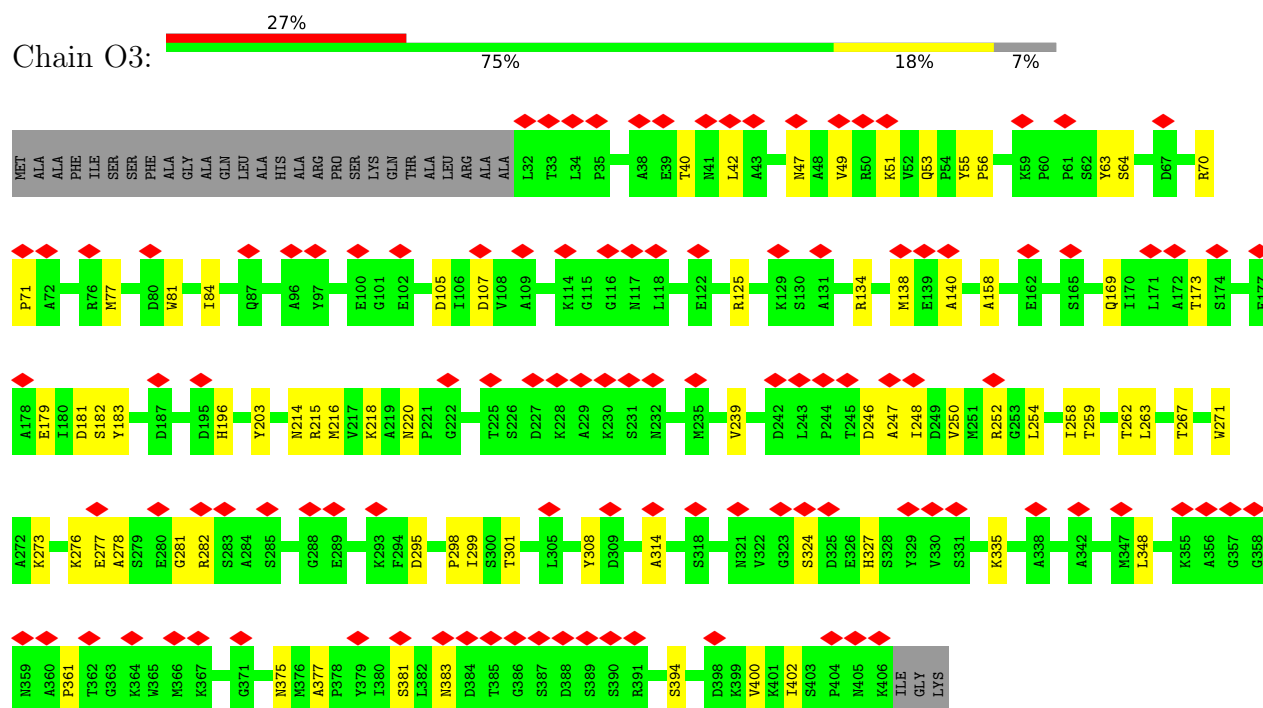


- Molecule 8: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

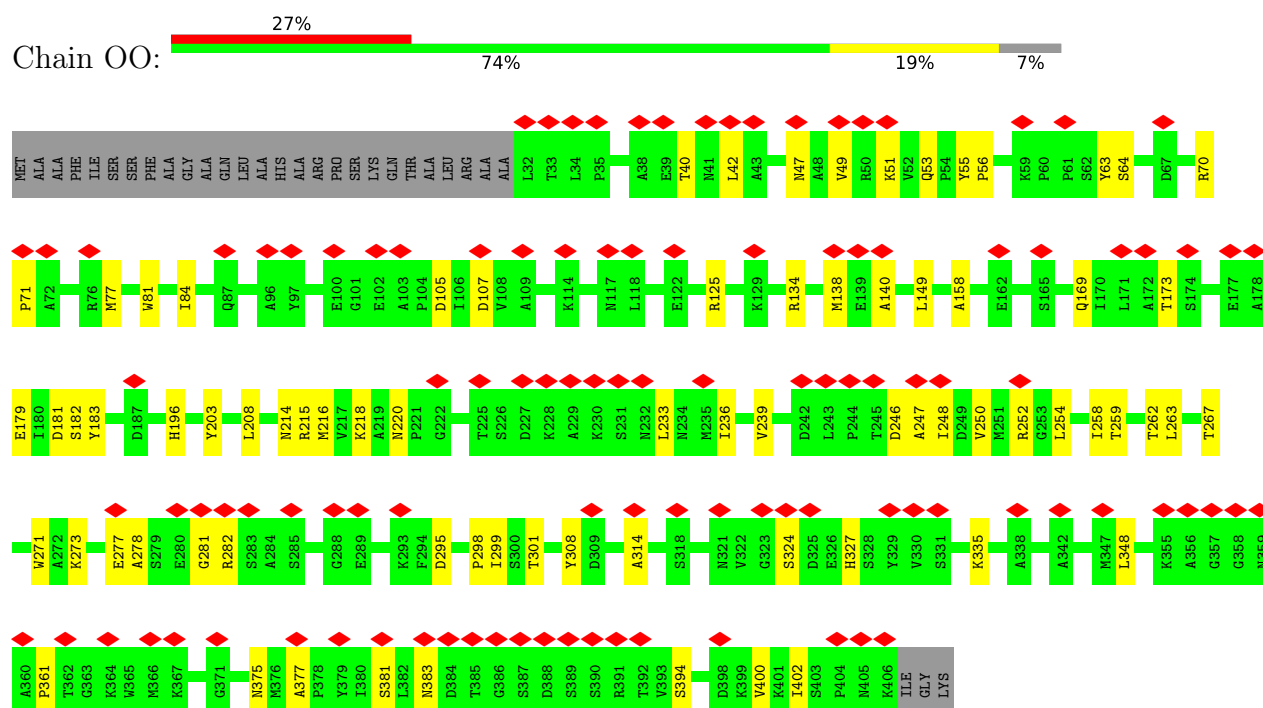




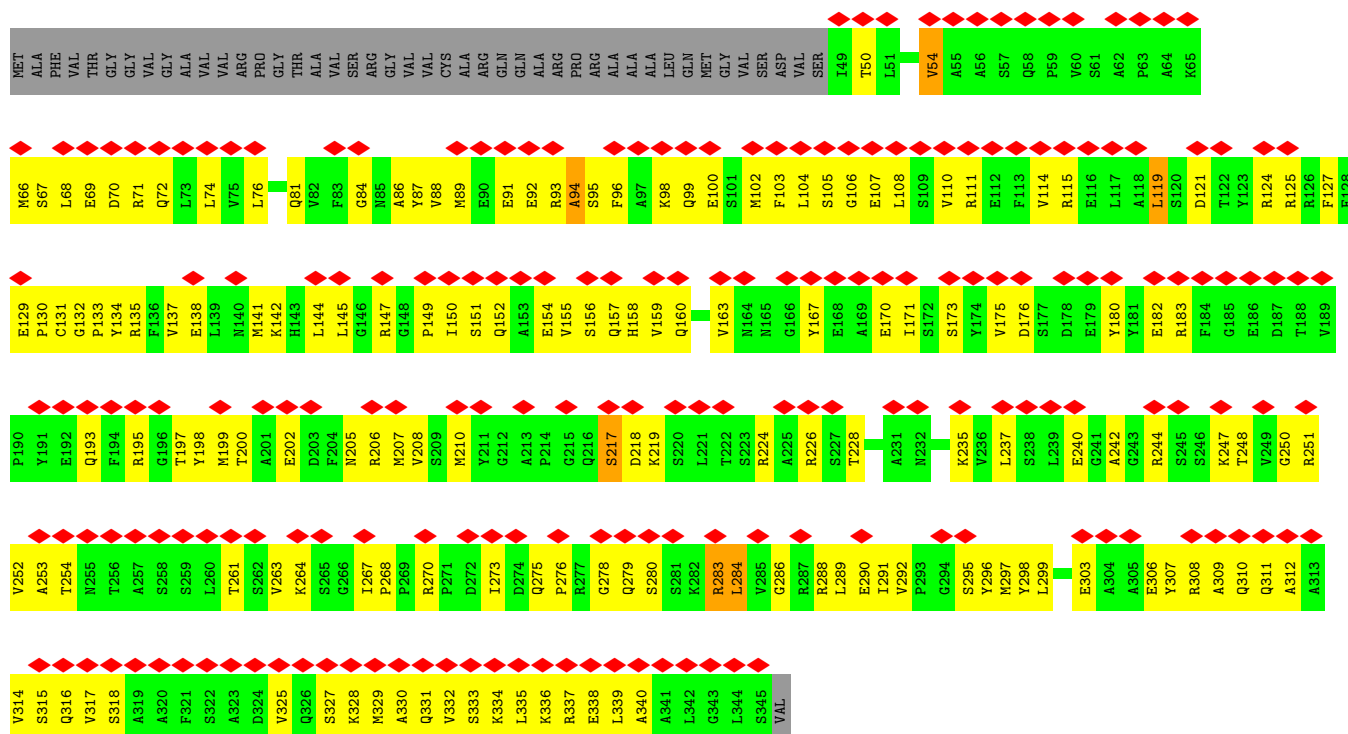
- Molecule 9: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod



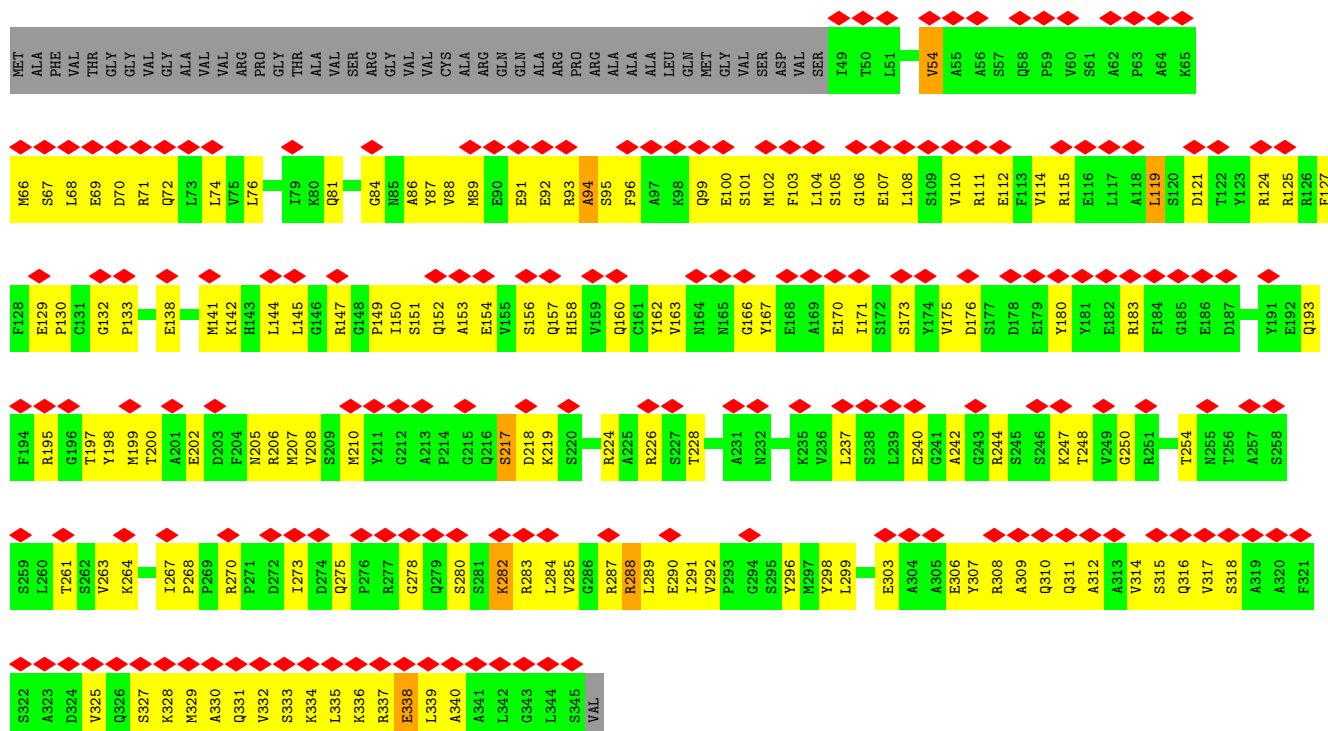
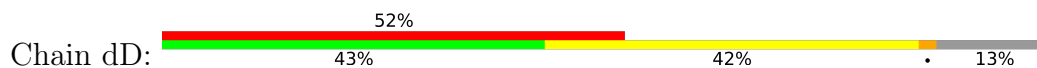
- Molecule 9: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod



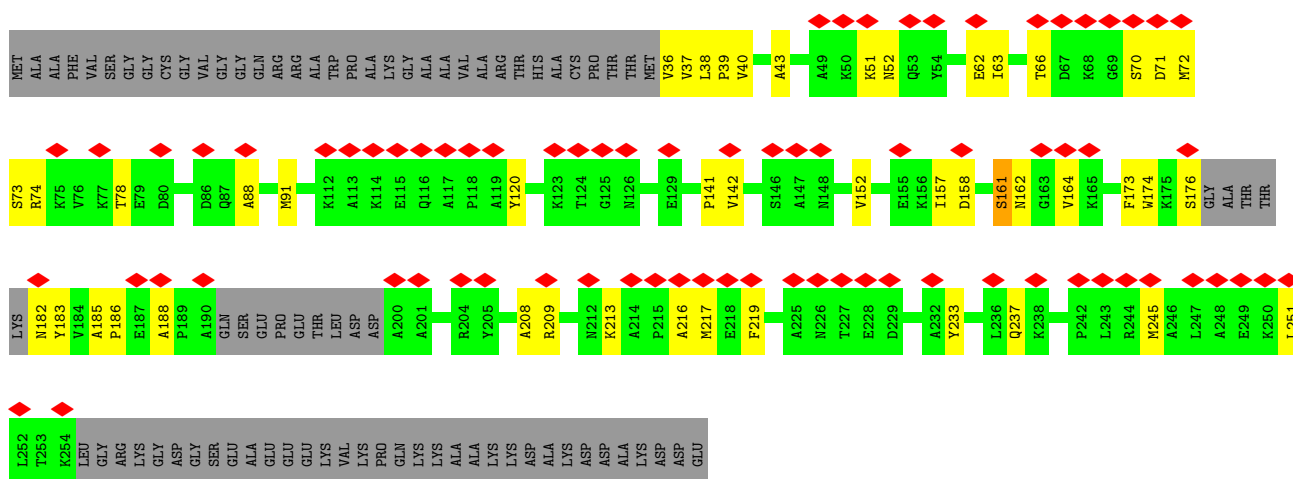
- Molecule 10: Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod



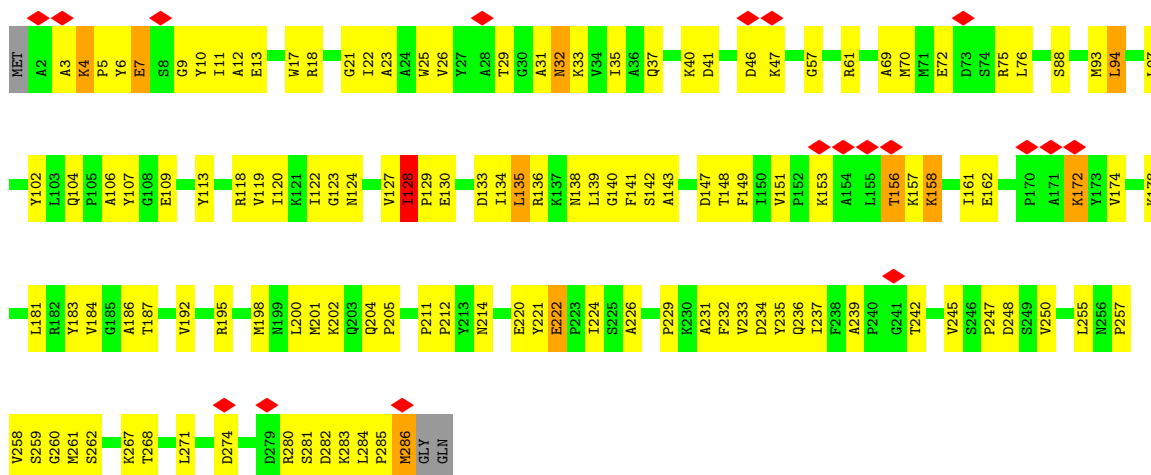
• Molecule 10: Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod



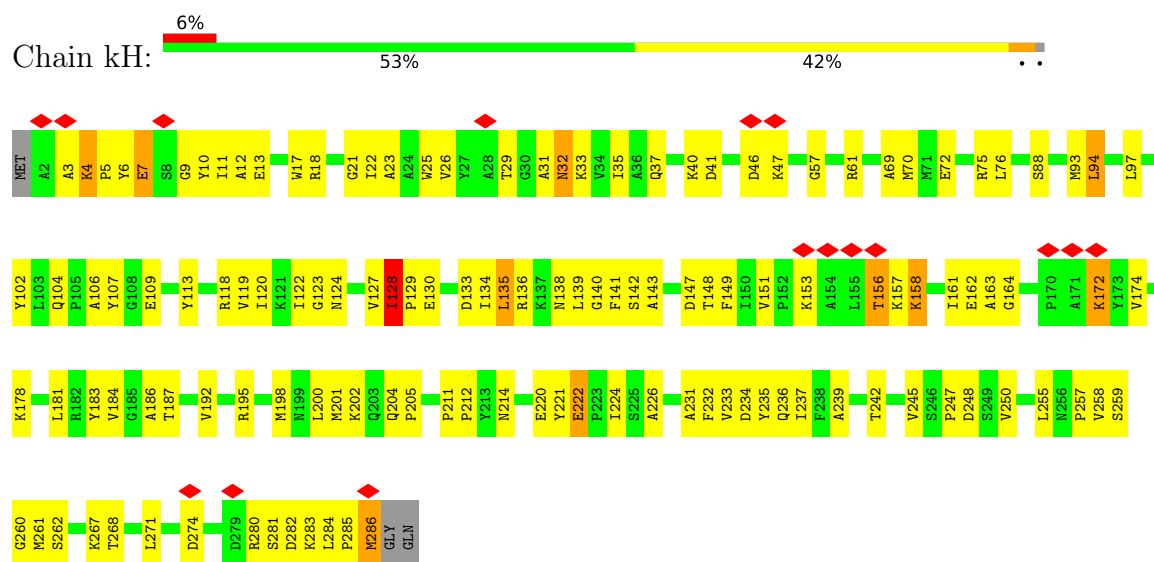
- Molecule 12: CaRSPs1



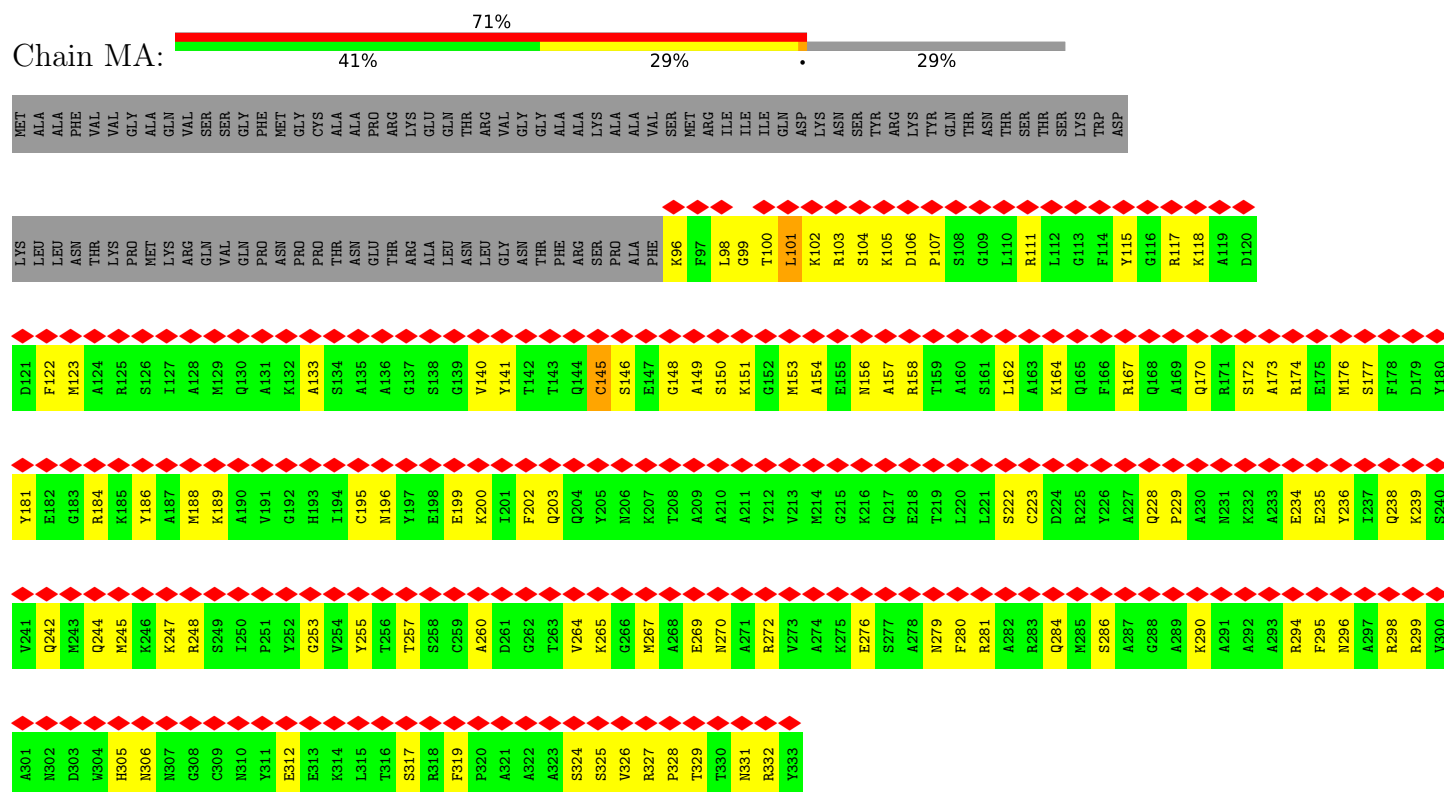
- Molecule 13: FAS1 domain-containing protein



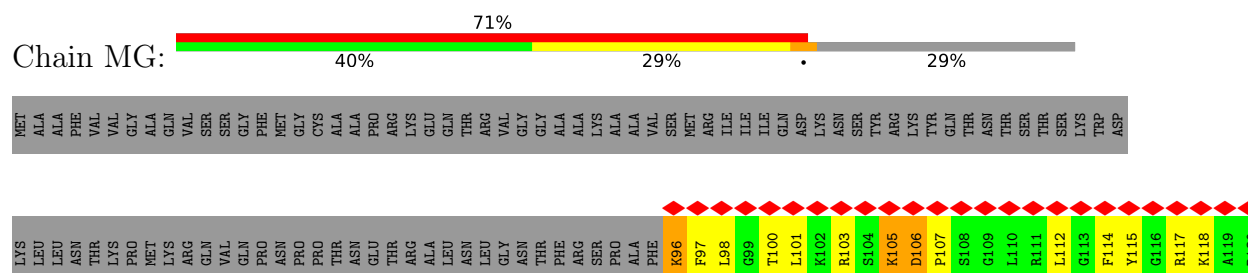
- Molecule 13: FAS1 domain-containing protein

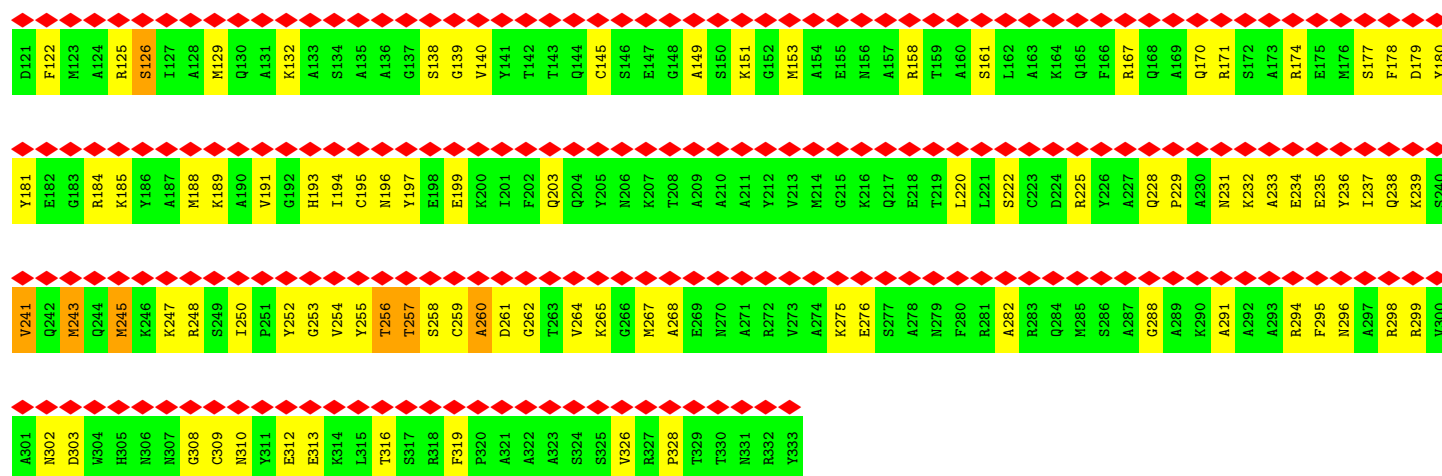


- Molecule 14: R-phycoerythrin gamma chain, chloroplastic

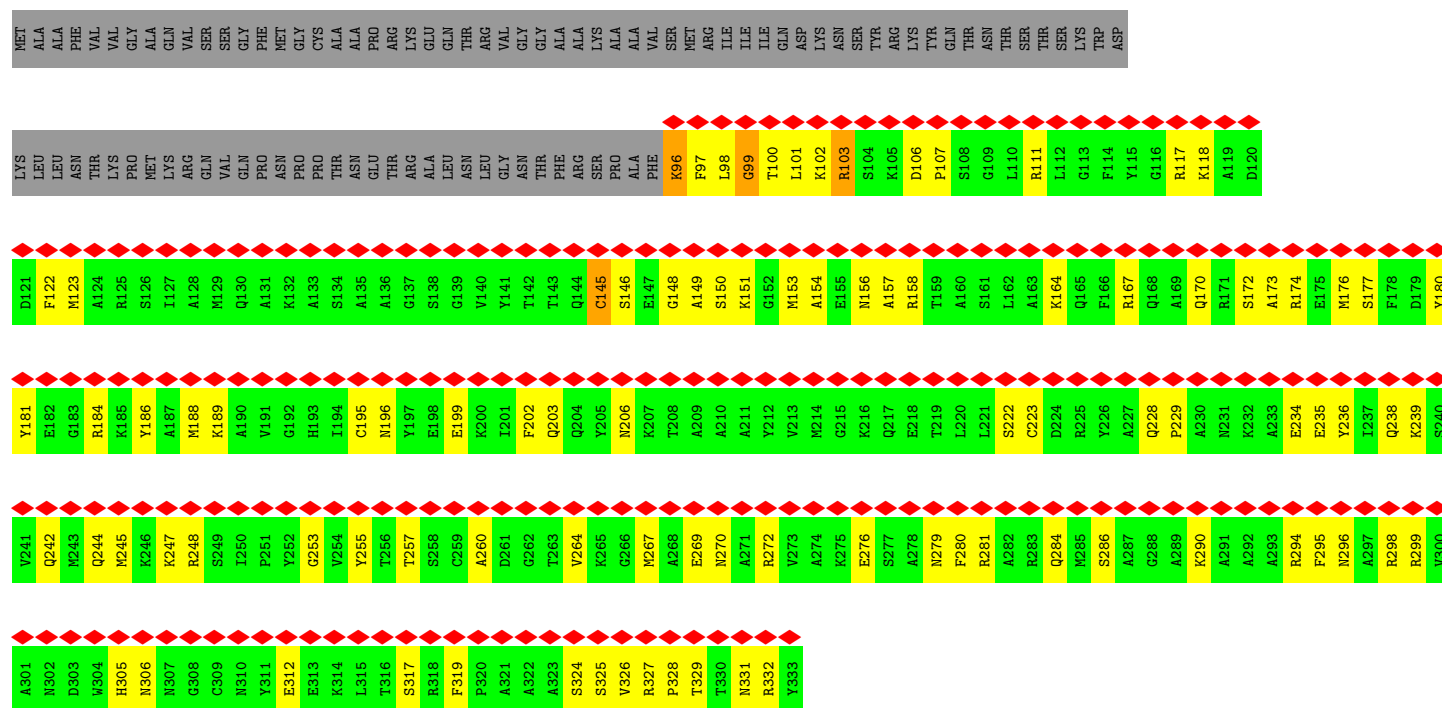
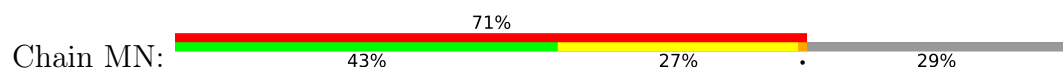


- Molecule 14: R-phycoerythrin gamma chain, chloroplastic

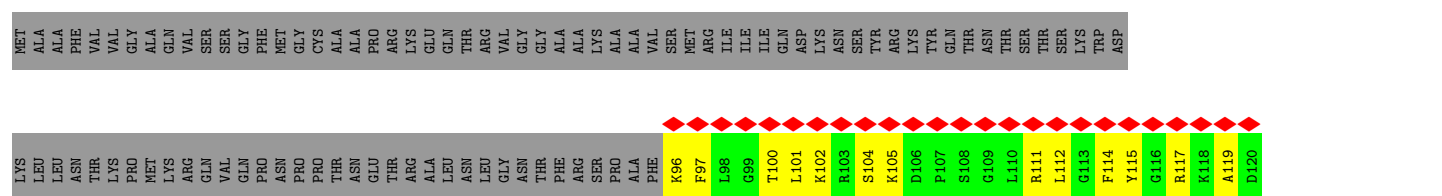
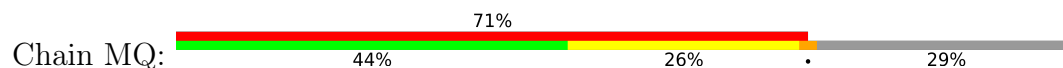


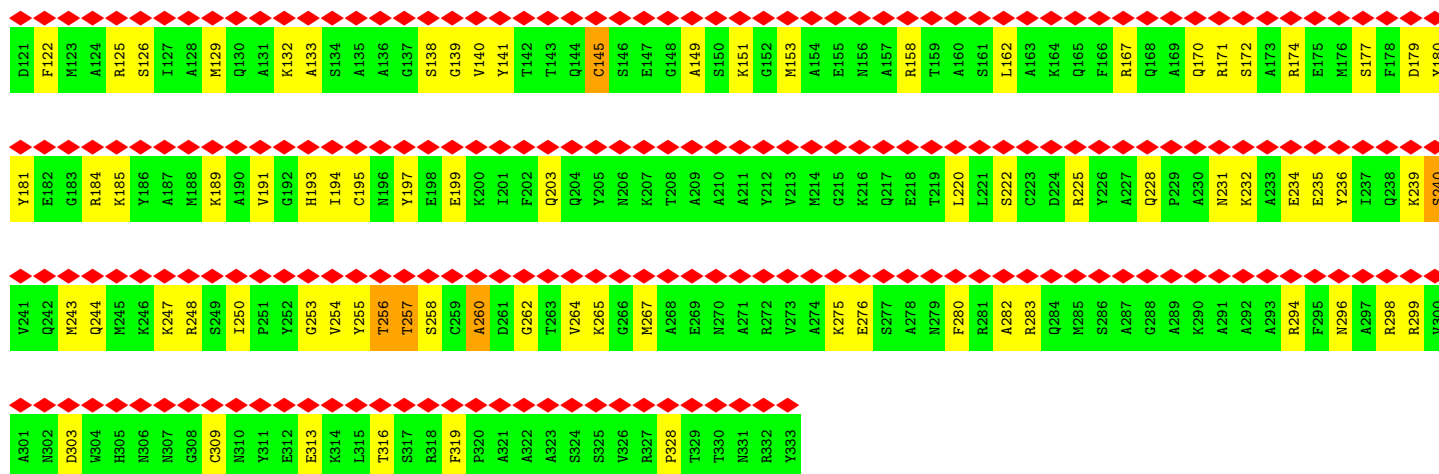


• Molecule 14: R-phycoerythrin gamma chain, chloroplastic

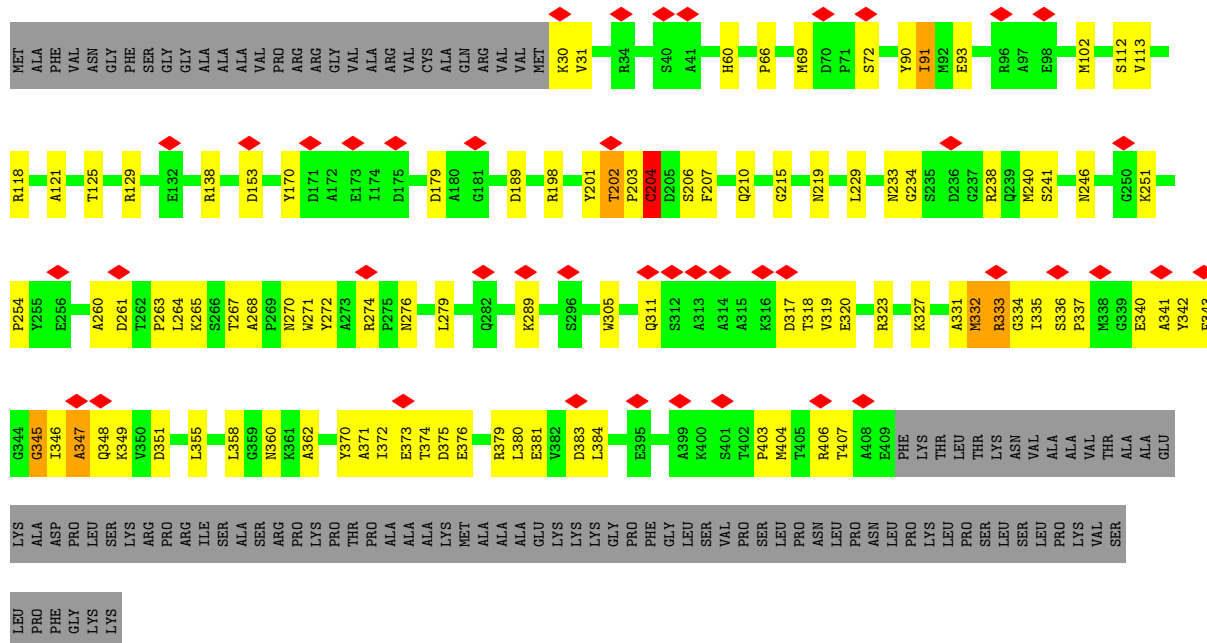


• Molecule 14: R-phycoerythrin gamma chain, chloroplastic

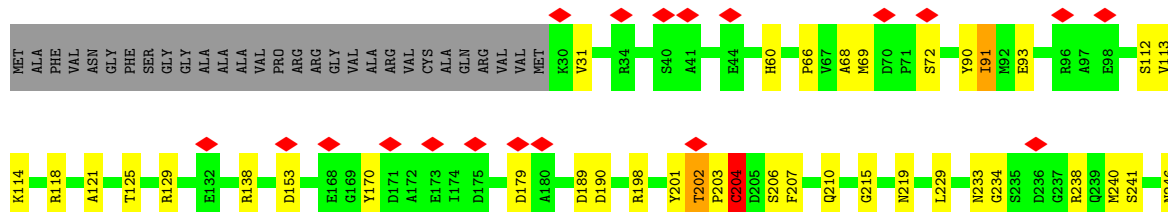


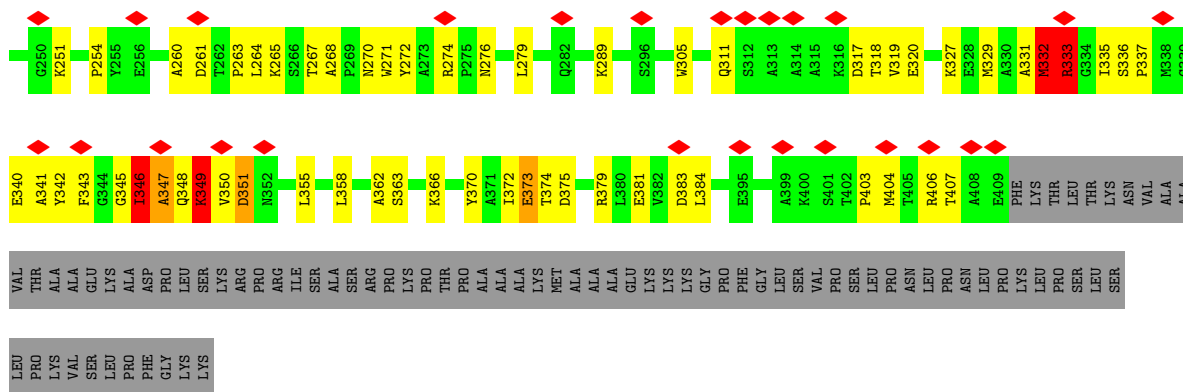


- Molecule 15: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

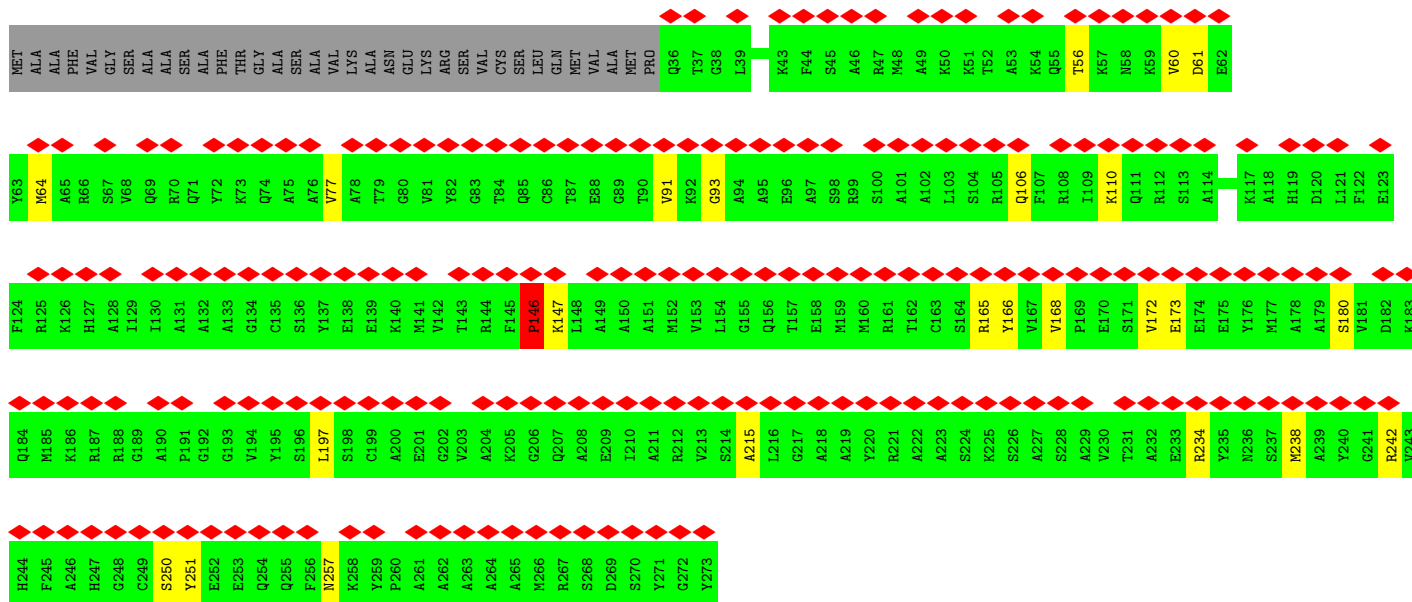
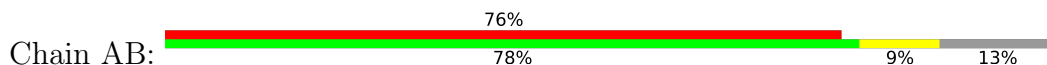


- Molecule 15: Phycobilisome 32.1 kDa linker polypeptide, phycocyanin-associated, rod

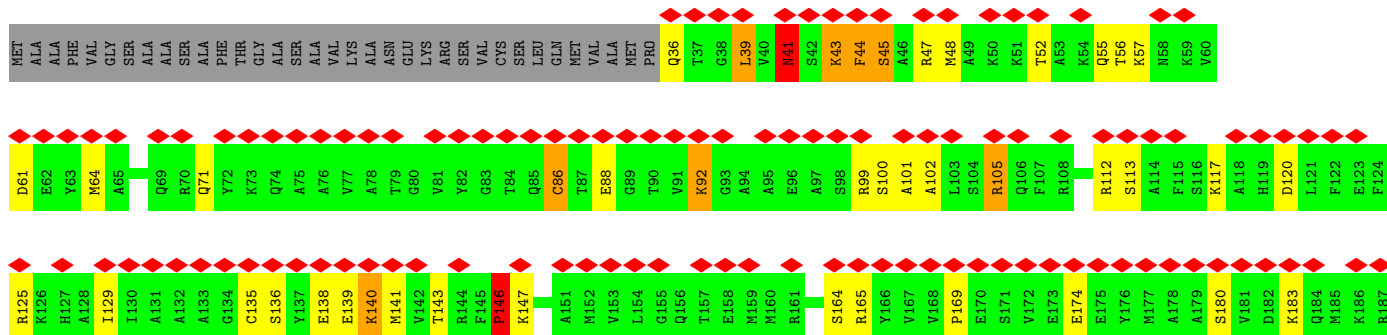


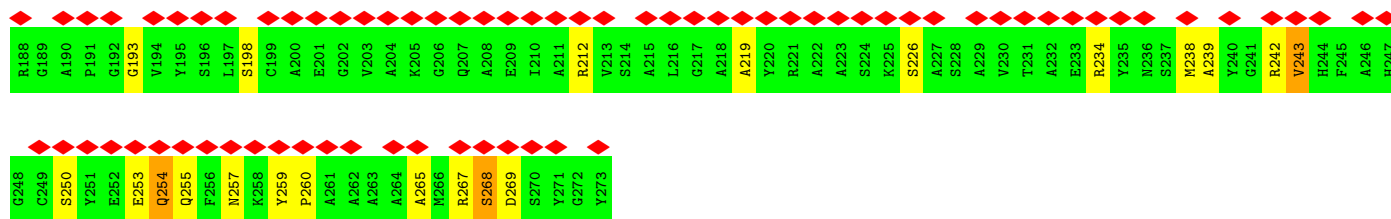


- Molecule 16: R-phycoerythrin gamma chain, chloroplastic

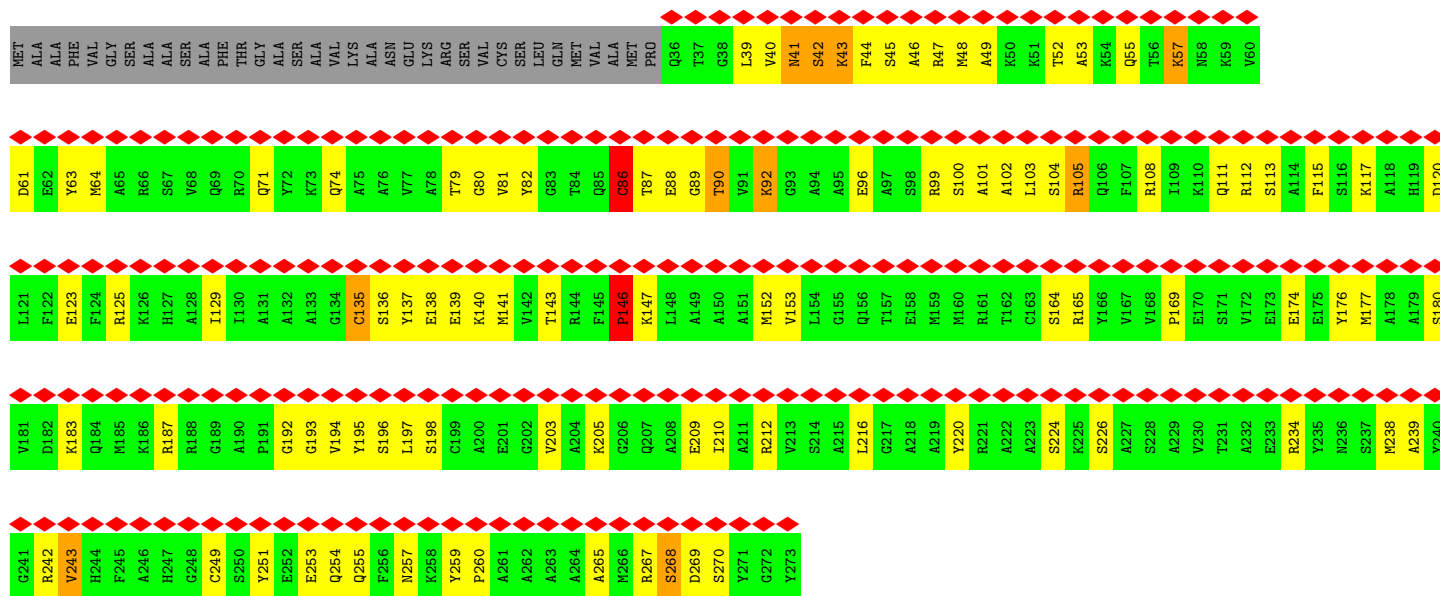
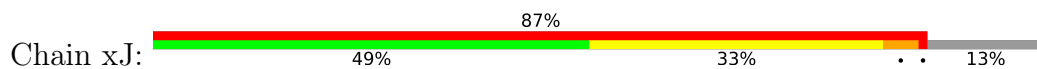


- Molecule 16: R-phycoerythrin gamma chain, chloroplastic

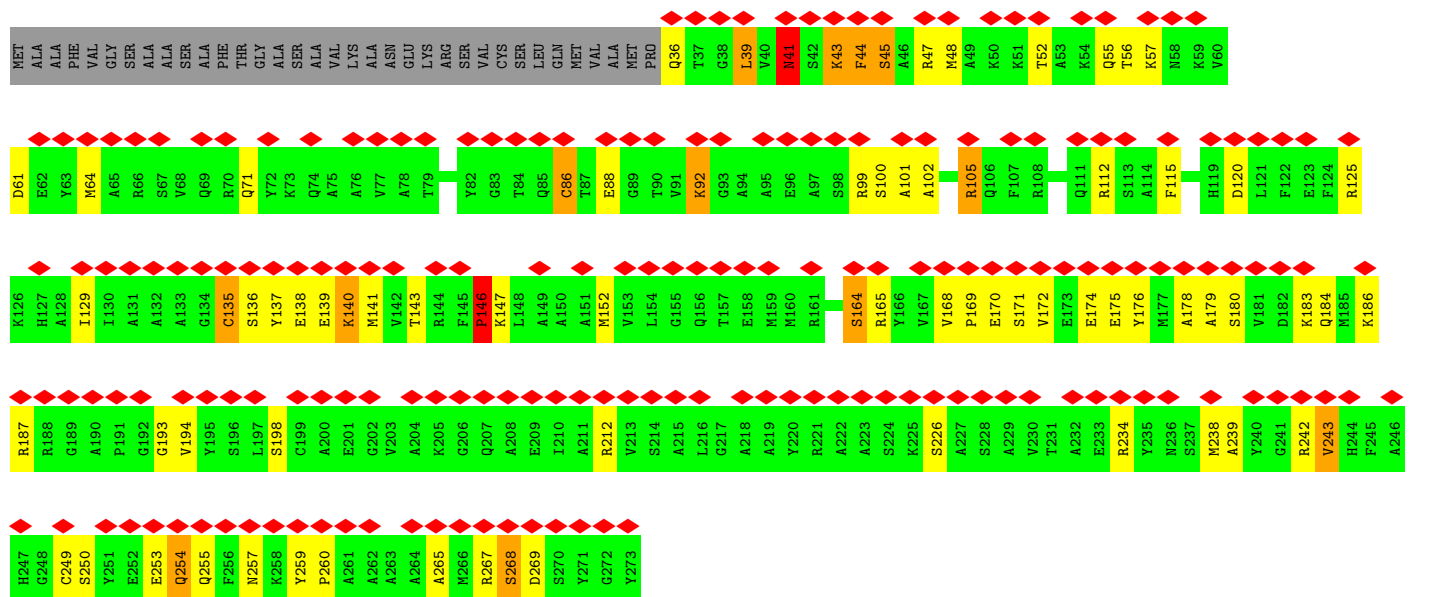




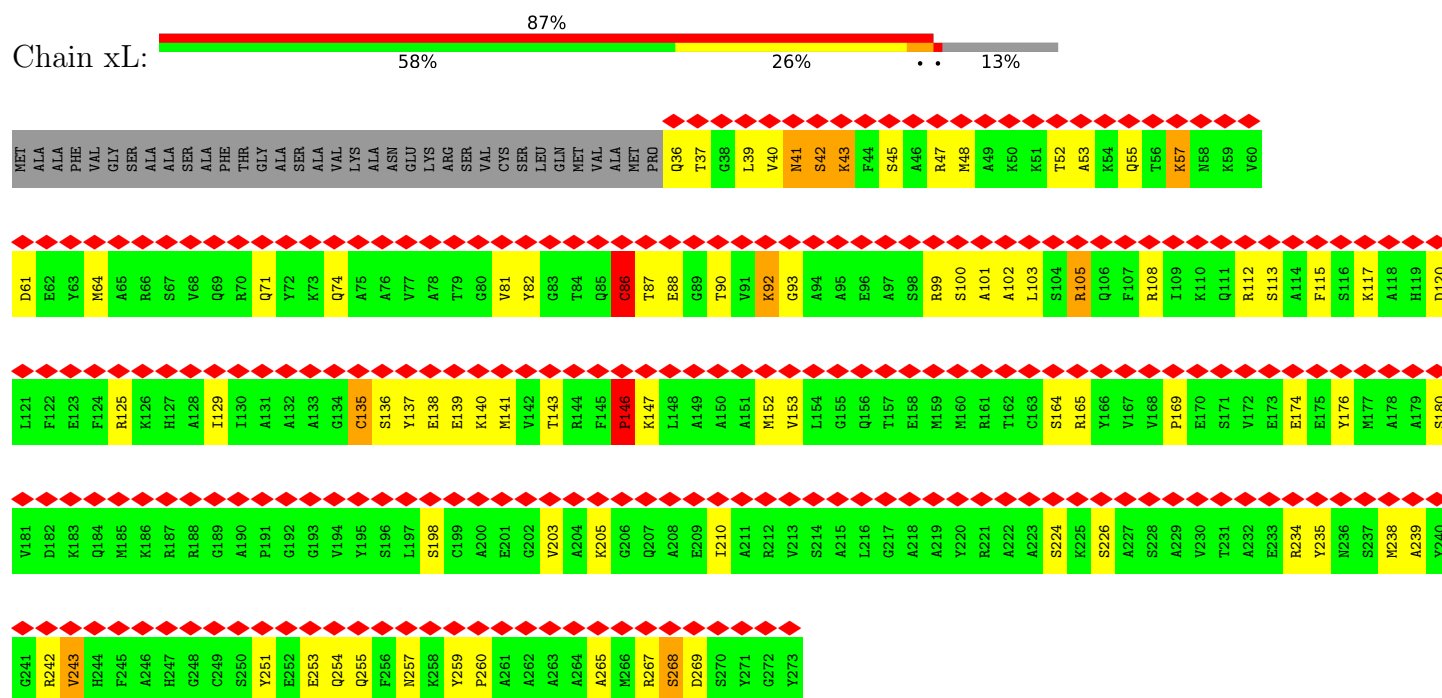
• Molecule 16: R-phycoerythrin gamma chain, chloroplastic



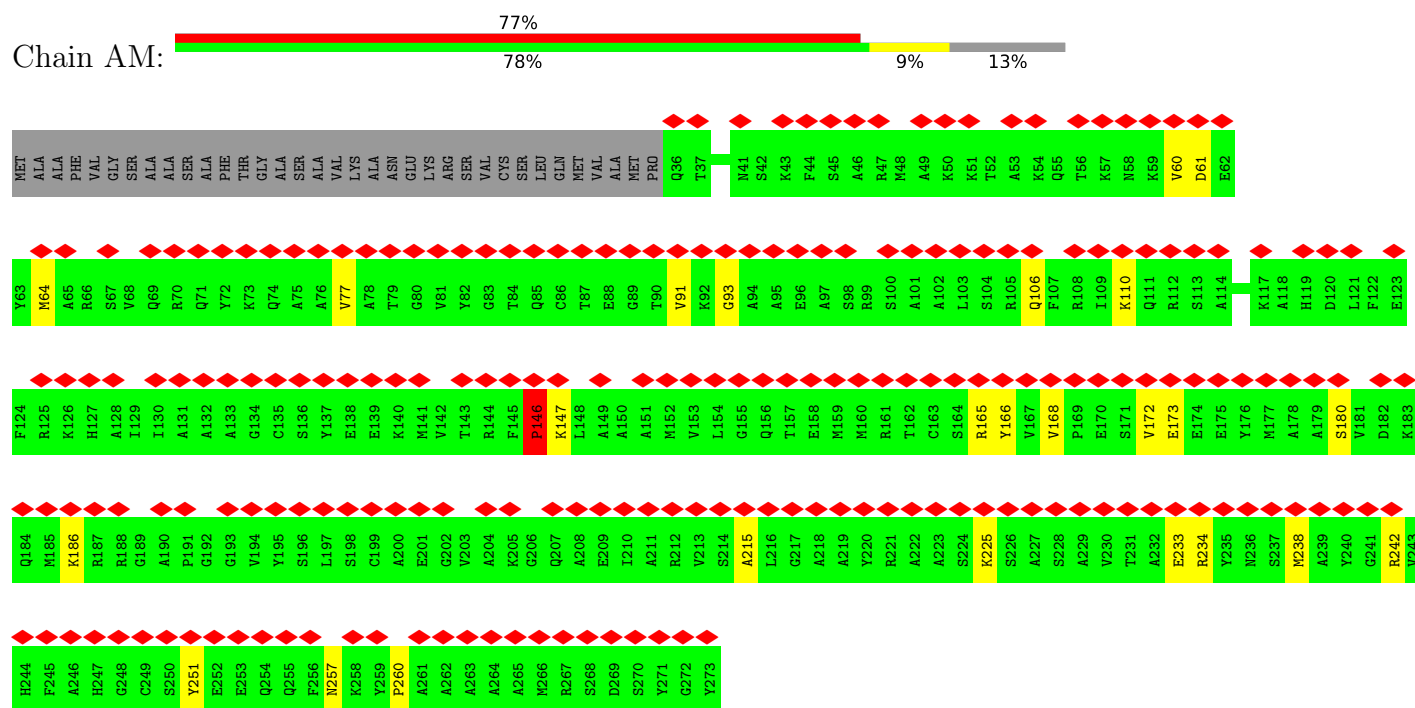
• Molecule 16: R-phycoerythrin gamma chain, chloroplastic



• Molecule 16: R-phycoerythrin gamma chain, chloroplastic

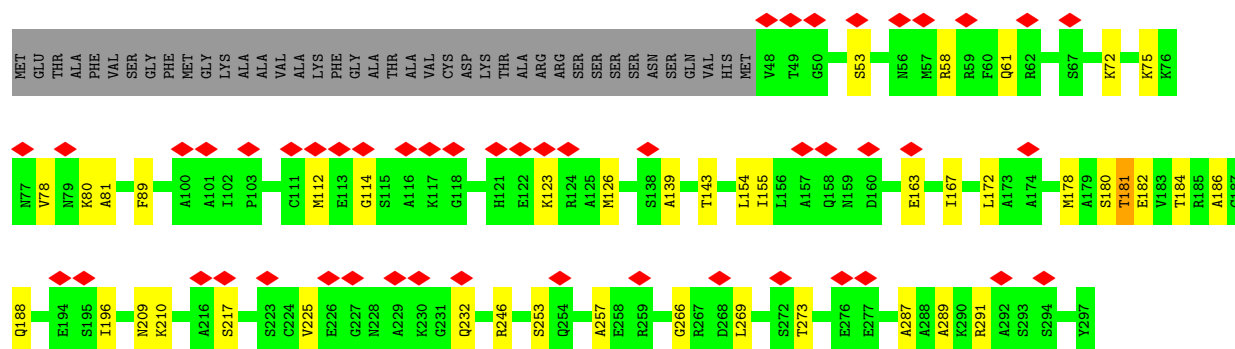


• Molecule 16: R-phycoerythrin gamma chain, chloroplastic

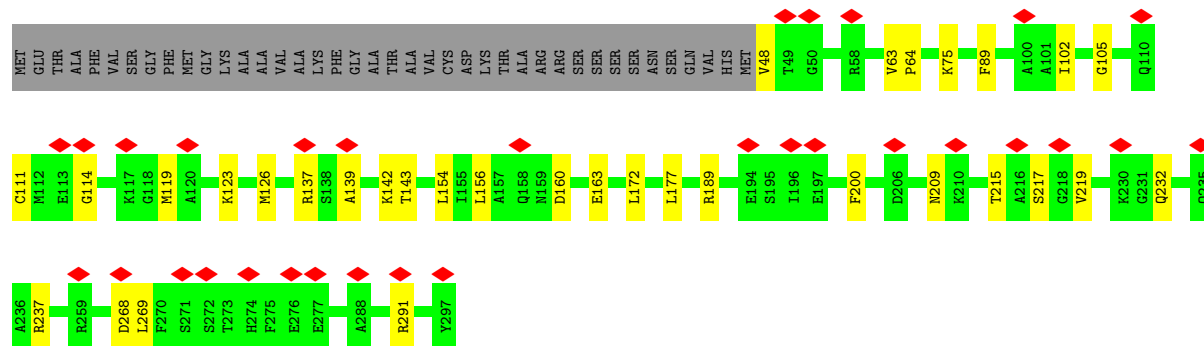
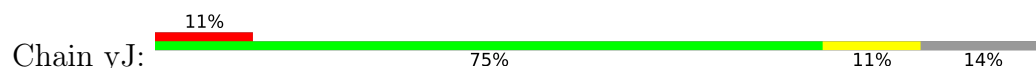


• Molecule 17: R-phycoerythrin gamma chain, chloroplastic

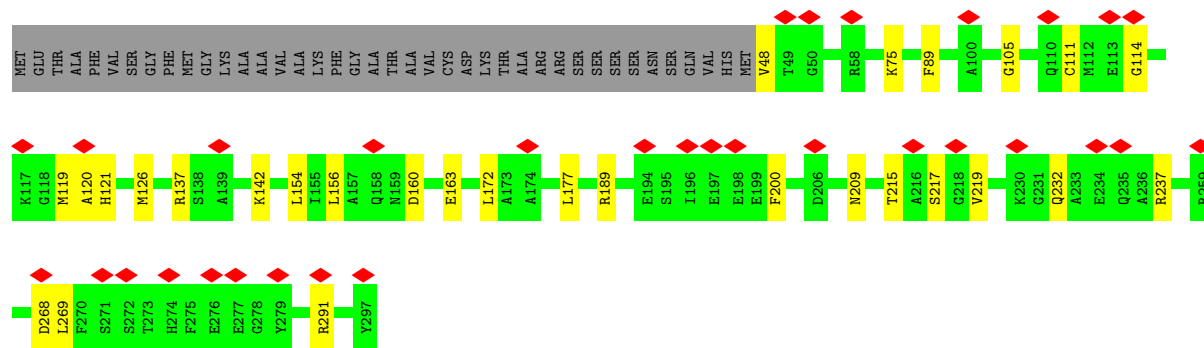
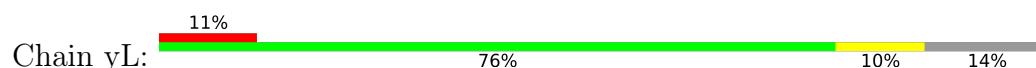




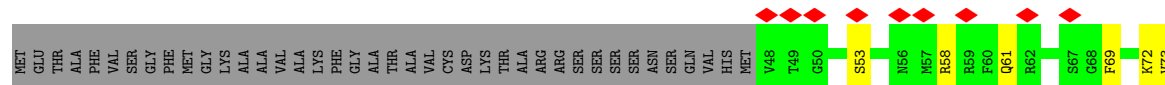
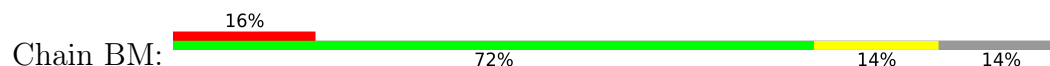
• Molecule 17: R-phycoerythrin gamma chain, chloroplastic

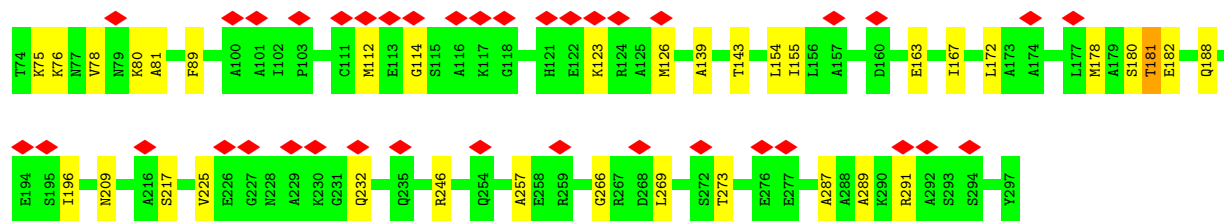


• Molecule 17: R-phycoerythrin gamma chain, chloroplastic

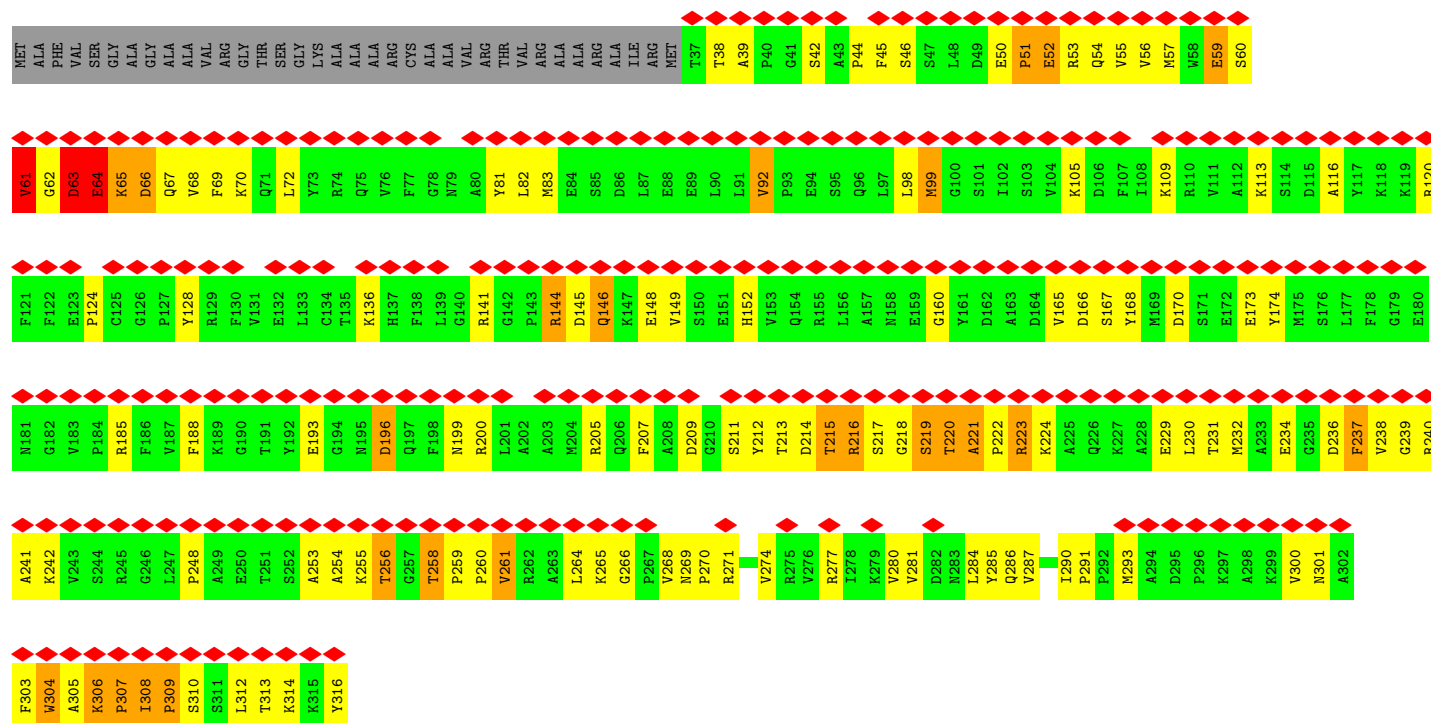
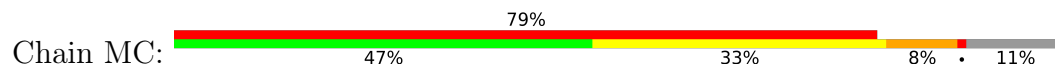


• Molecule 17: R-phycoerythrin gamma chain, chloroplastic

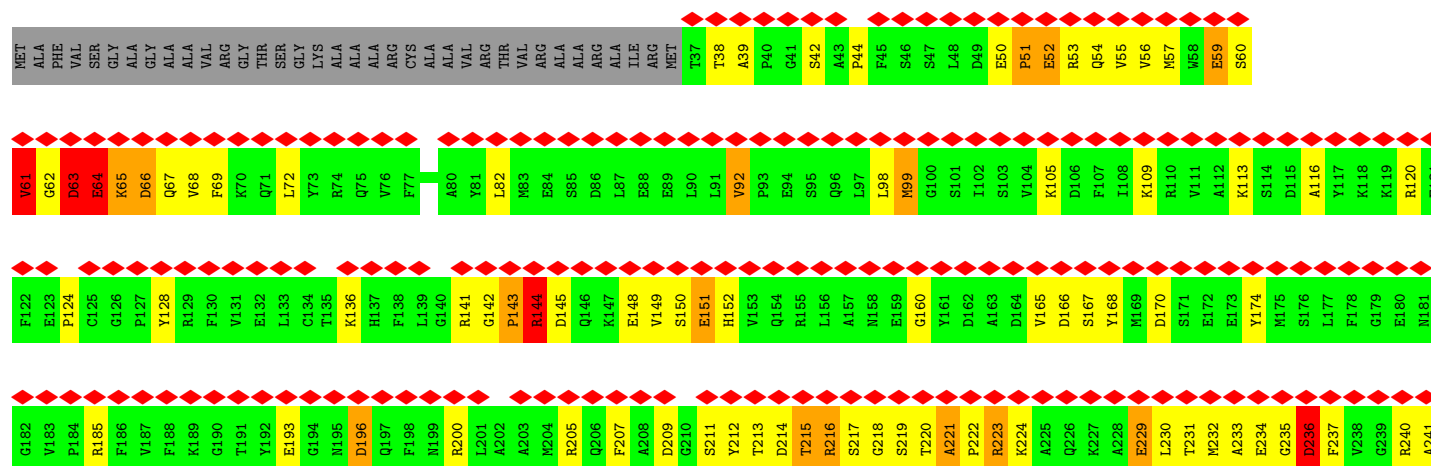
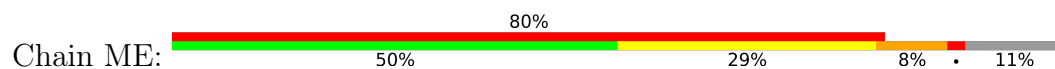


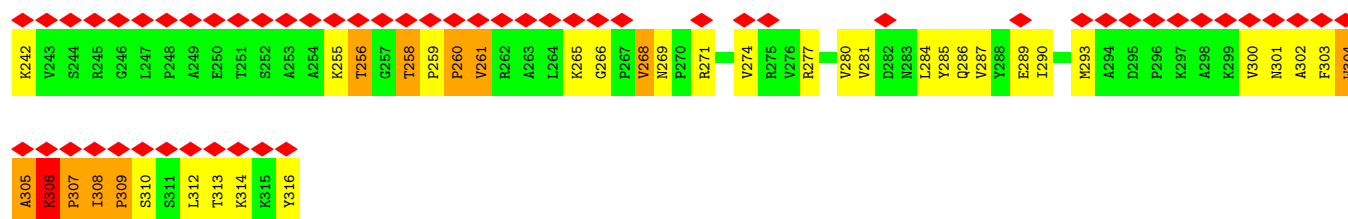


- Molecule 18: Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod

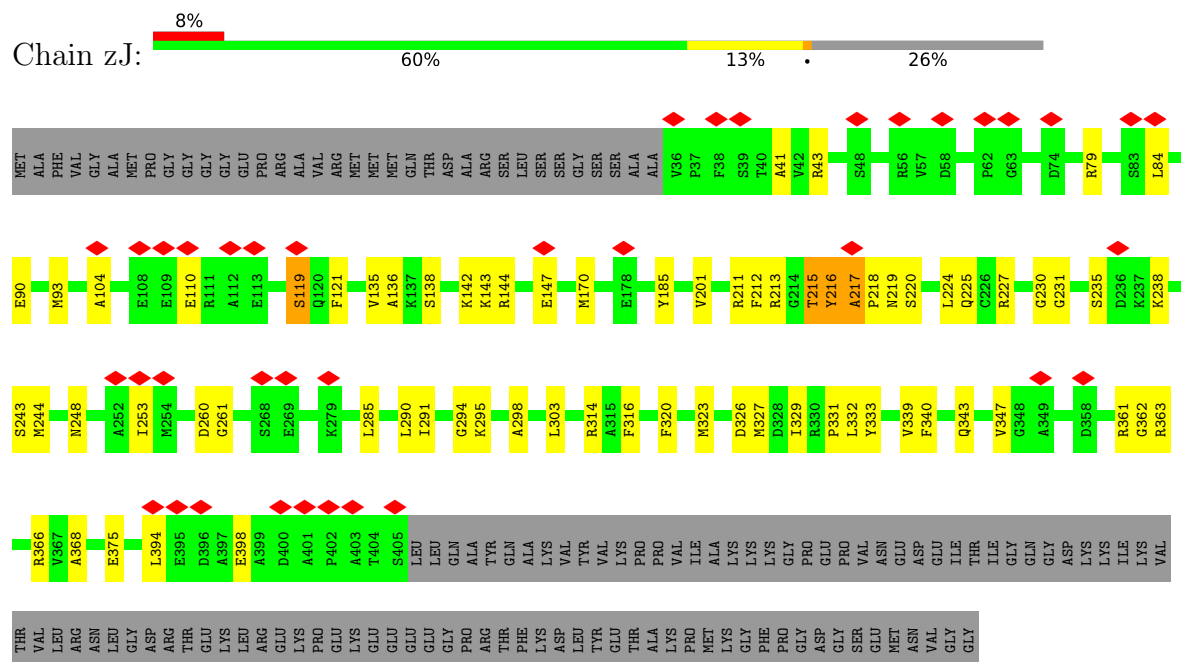


- Molecule 18: Phycobilisome 27.9 kDa linker polypeptide, phycoerythrin-associated, rod

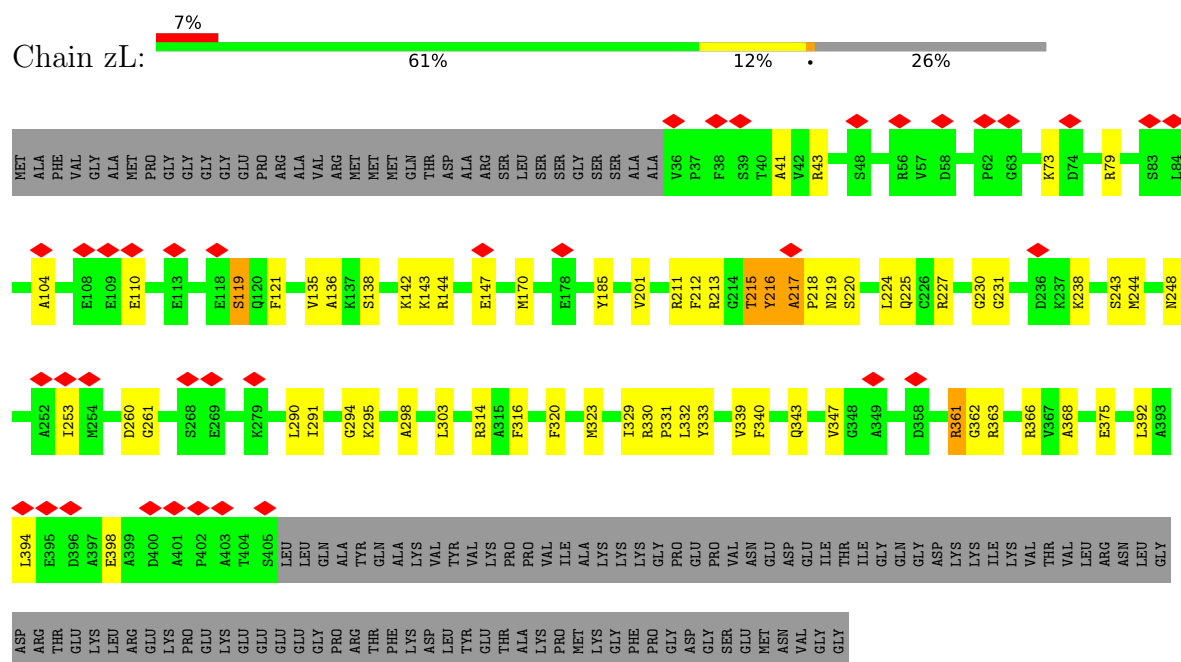




- Molecule 19: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod

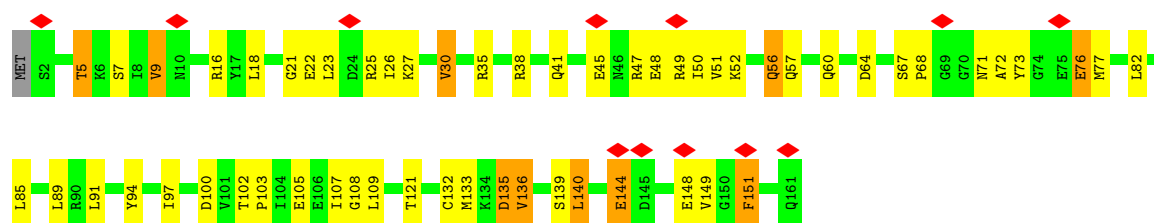


- Molecule 19: Phycobilisome 31.8 kDa linker polypeptide, phycoerythrin-associated, rod



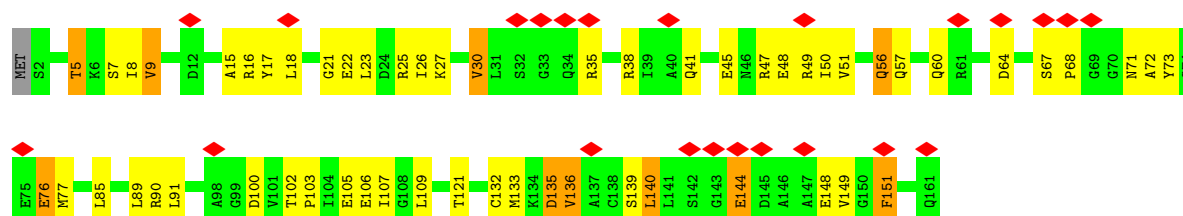
- Molecule 20: Allophycocyanin alpha subunit

Chain AP: 



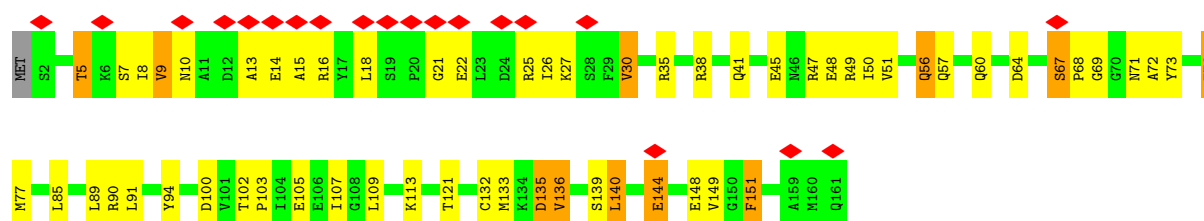
• Molecule 20: Allophycocyanin alpha subunit

Chain CP: 



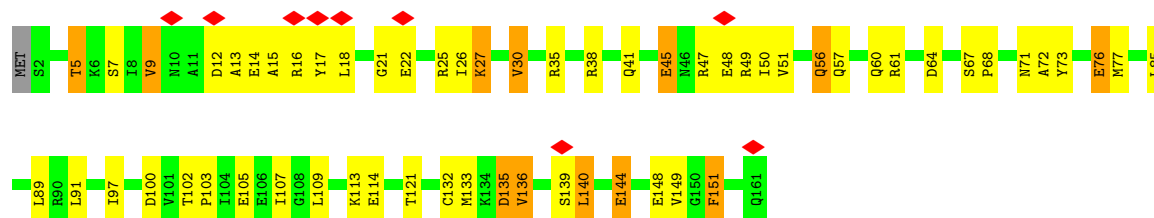
• Molecule 20: Allophycocyanin alpha subunit

Chain EP: 



• Molecule 20: Allophycocyanin alpha subunit

Chain GP: 



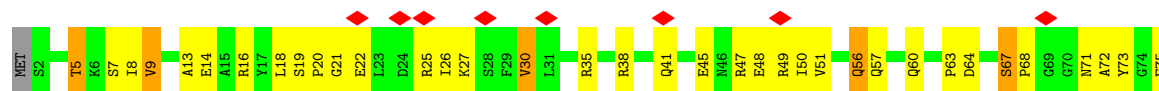
• Molecule 20: Allophycocyanin alpha subunit

Chain JP: 





- Molecule 20: Allophycocyanin alpha subunit



- Molecule 20: Allophycocyanin alpha subunit



- Molecule 20: Allophycocyanin alpha subunit

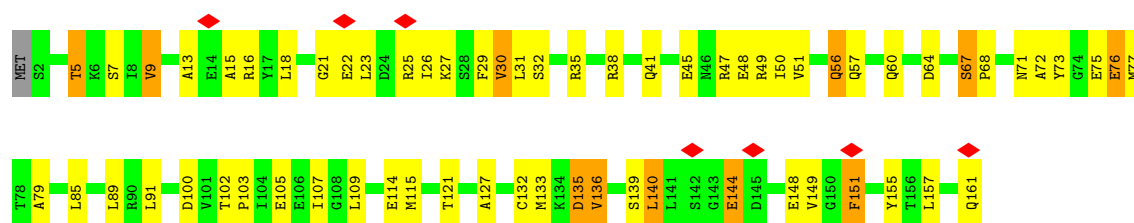


- Molecule 20: Allophycocyanin alpha subunit



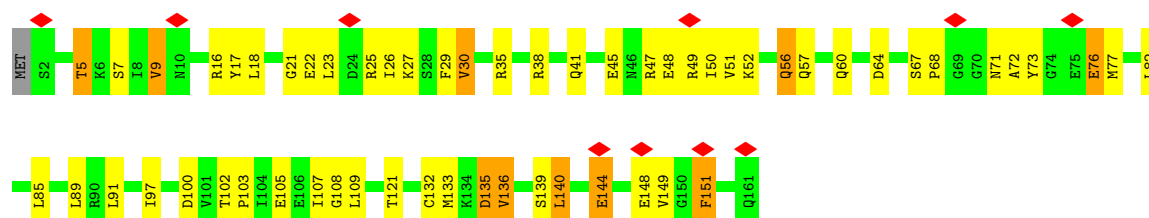
- Molecule 20: Allophycocyanin alpha subunit

Chain TP: 



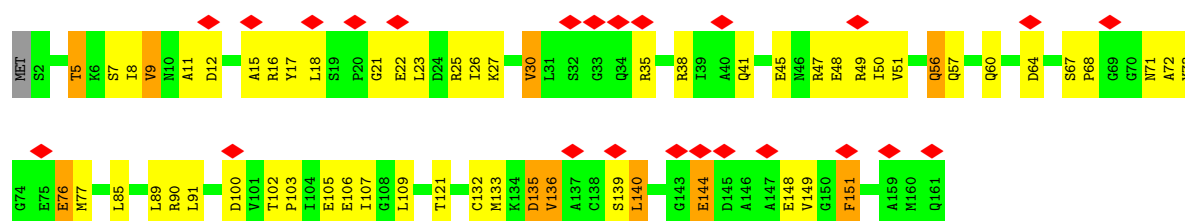
• Molecule 20: Allophycocyanin alpha subunit

Chain cP: 



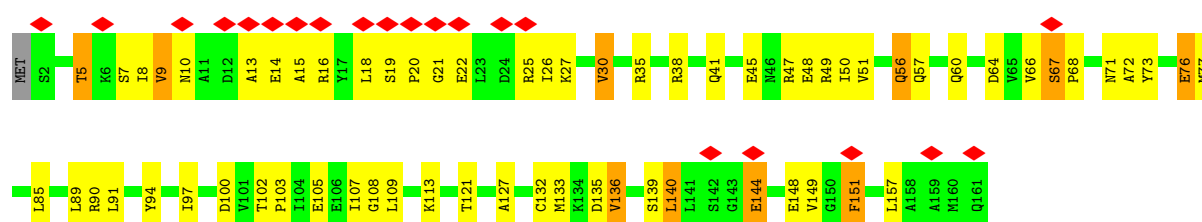
• Molecule 20: Allophycocyanin alpha subunit

Chain eP: 



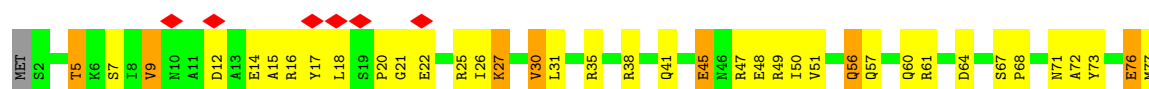
• Molecule 20: Allophycocyanin alpha subunit

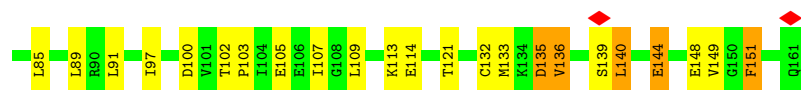
Chain gP: 



• Molecule 20: Allophycocyanin alpha subunit

Chain iP: 

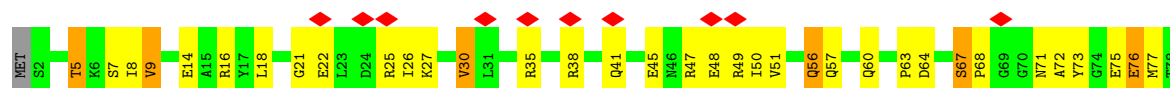




- Molecule 20: Allophycocyanin alpha subunit



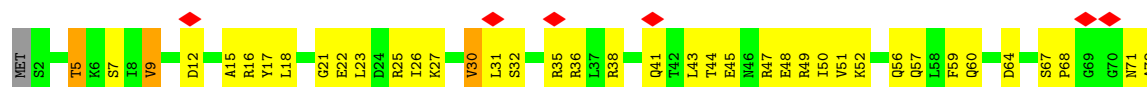
- Molecule 20: Allophycocyanin alpha subunit



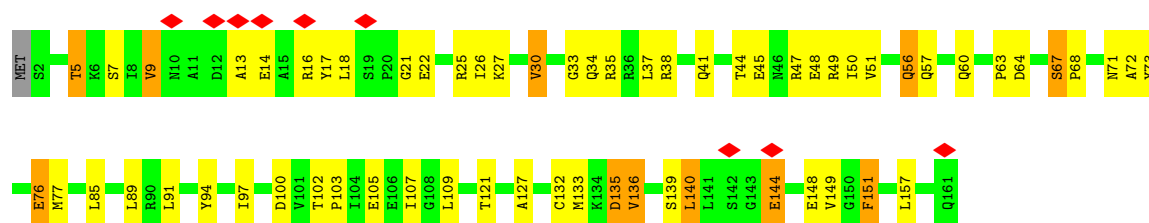
- Molecule 20: Allophycocyanin alpha subunit



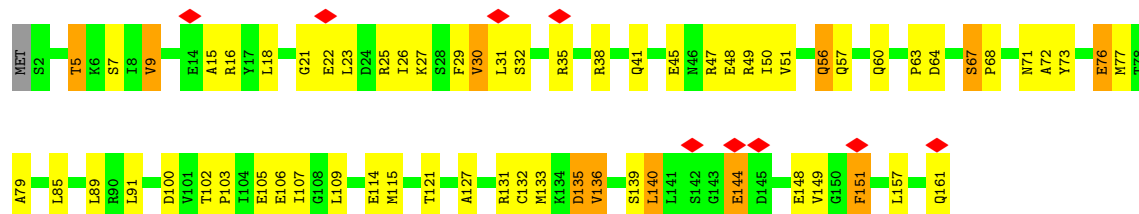
- Molecule 20: Allophycocyanin alpha subunit



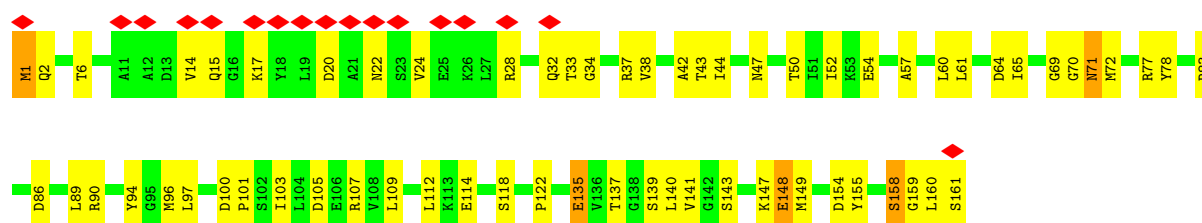
- Molecule 20: Allophycocyanin alpha subunit



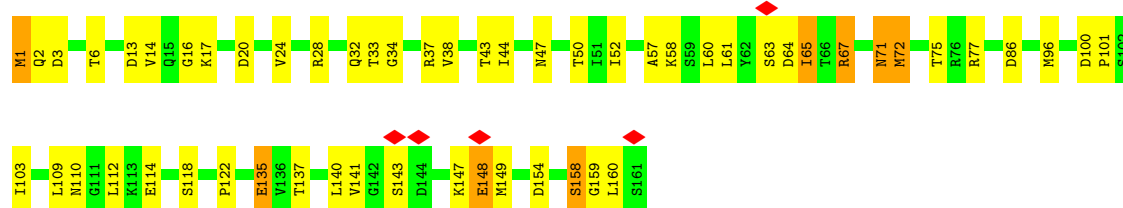
• Molecule 20: Allophycocyanin alpha subunit



• Molecule 21: Allophycocyanin beta subunit

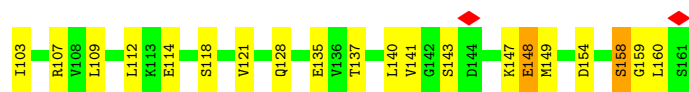


• Molecule 21: Allophycocyanin beta subunit

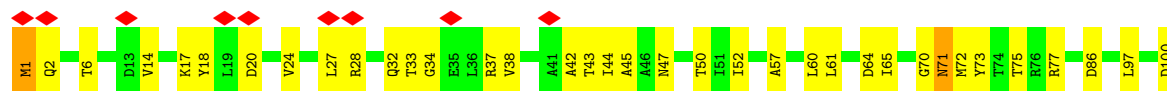


• Molecule 21: Allophycocyanin beta subunit

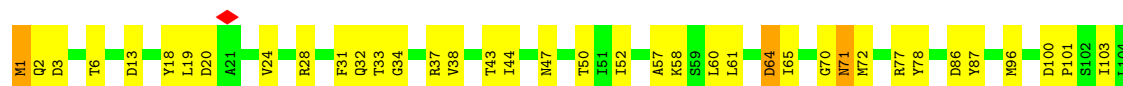




- Molecule 21: Allophycocyanin beta subunit



- Molecule 21: Allophycocyanin beta subunit



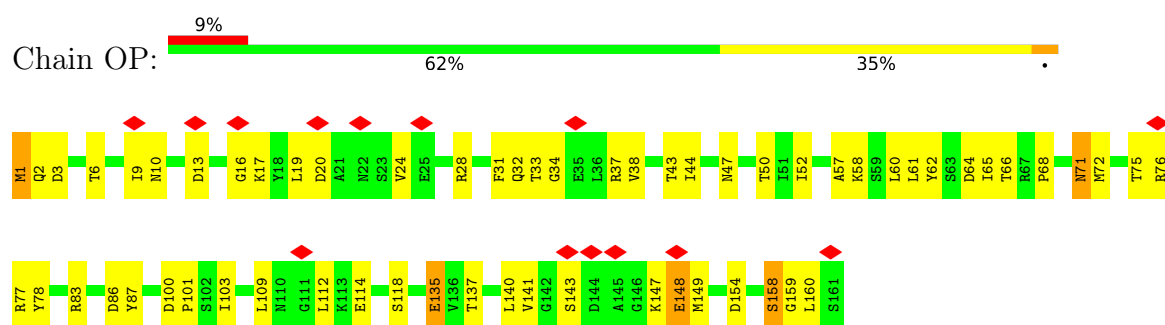
- Molecule 21: Allophycocyanin beta subunit



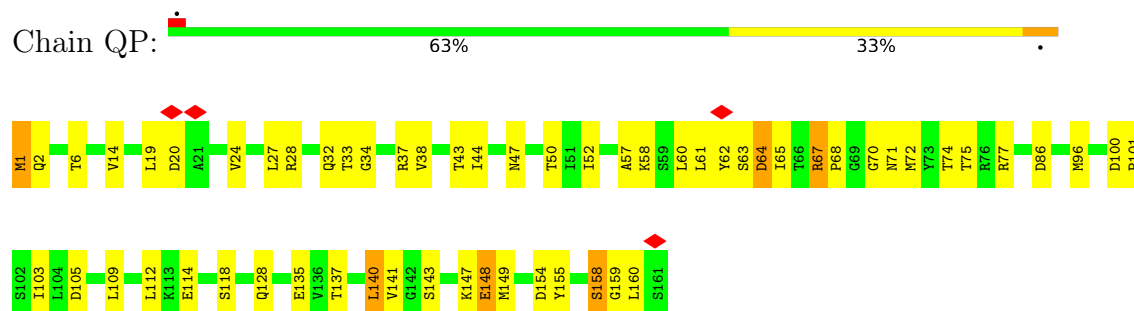
- Molecule 21: Allophycocyanin beta subunit



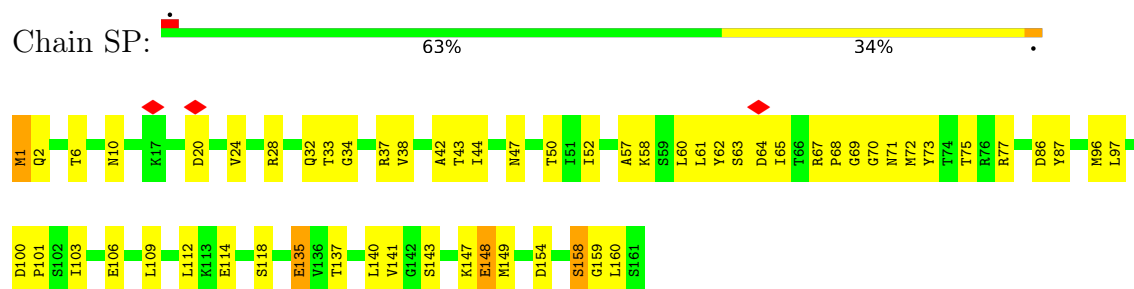
- Molecule 21: Allophycocyanin beta subunit



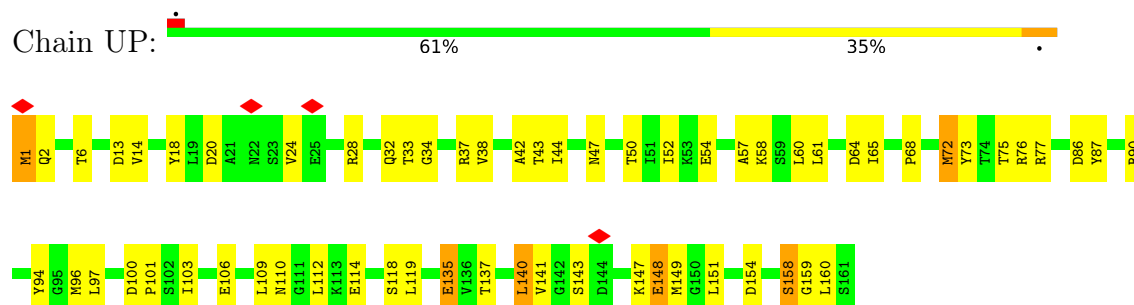
• Molecule 21: Allophycocyanin beta subunit



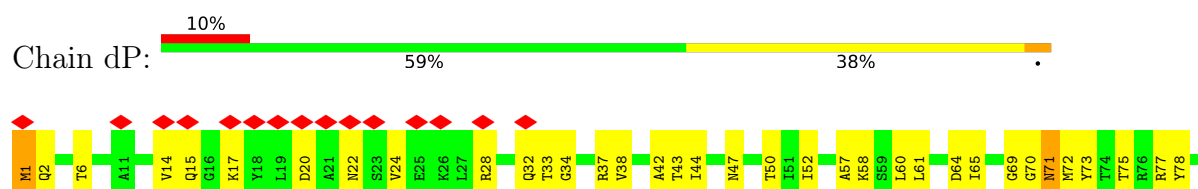
• Molecule 21: Allophycocyanin beta subunit



• Molecule 21: Allophycocyanin beta subunit



• Molecule 21: Allophycocyanin beta subunit

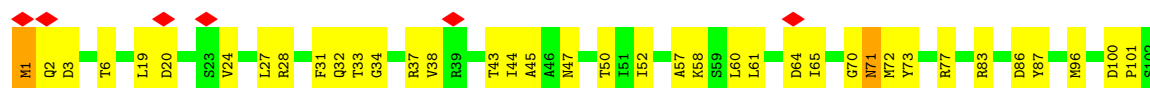




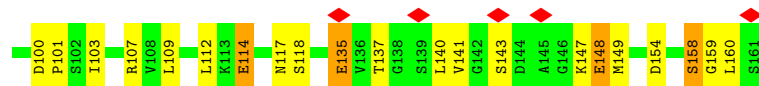
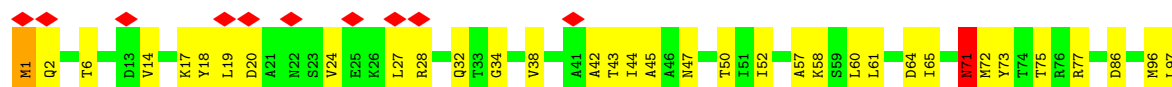
- Molecule 21: Allophycocyanin beta subunit



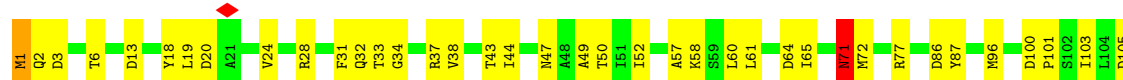
- Molecule 21: Allophycocyanin beta subunit



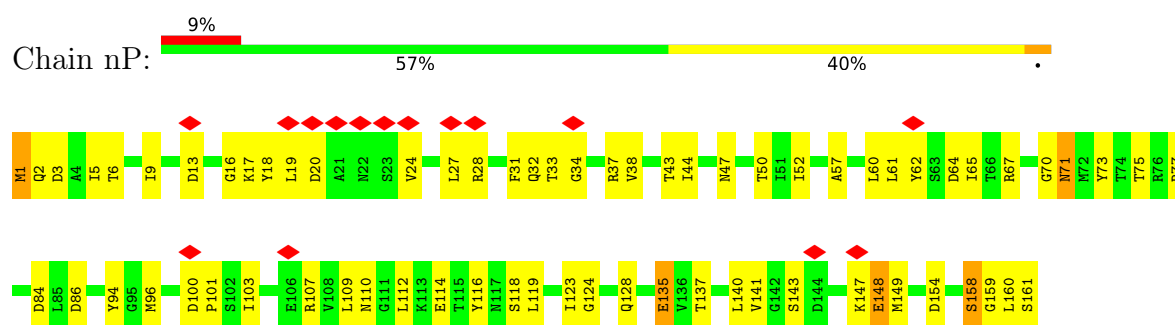
- Molecule 21: Allophycocyanin beta subunit



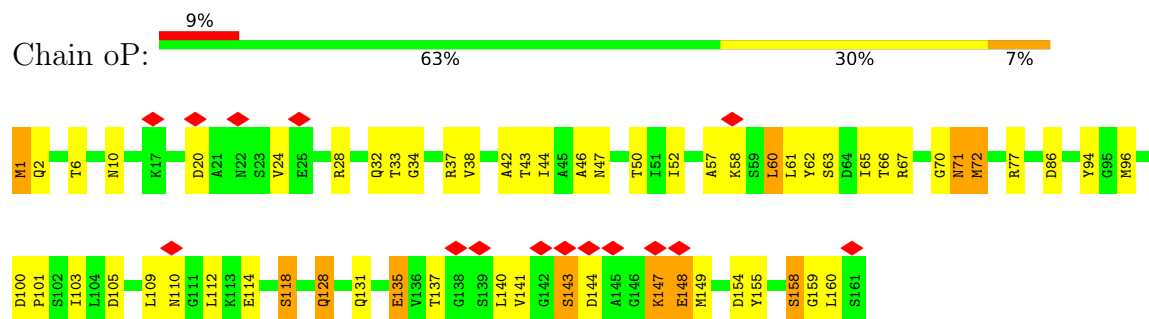
- Molecule 21: Allophycocyanin beta subunit



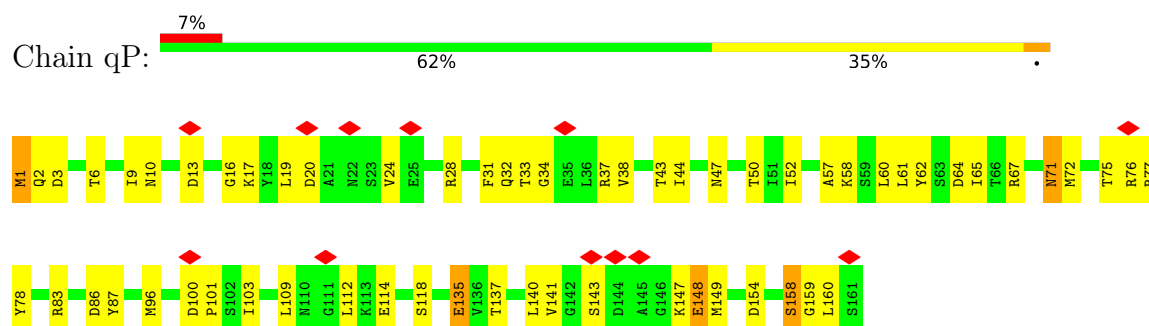
- Molecule 21: Allophycocyanin beta subunit



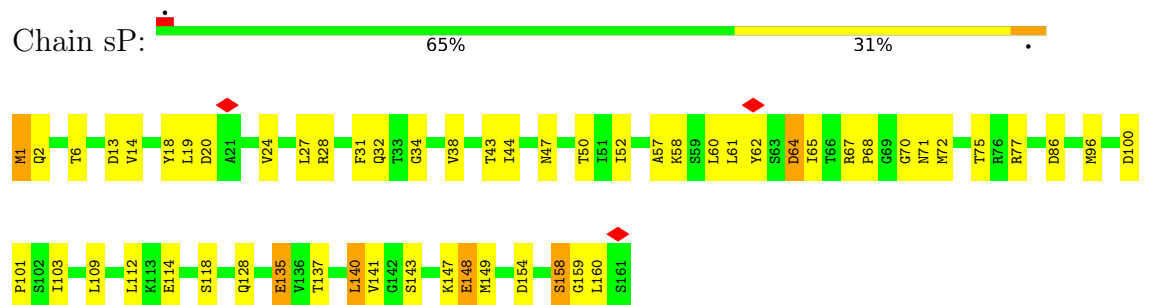
• Molecule 21: Allophycocyanin beta subunit



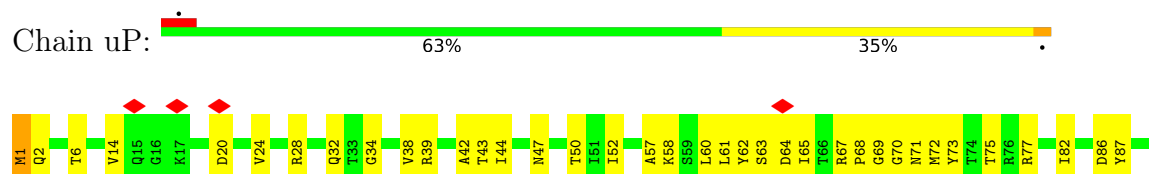
• Molecule 21: Allophycocyanin beta subunit



• Molecule 21: Allophycocyanin beta subunit



• Molecule 21: Allophycocyanin beta subunit





- Molecule 21: Allophycocyanin beta subunit



- Molecule 22: Allophycocyanin gamma subunit



- Molecule 22: Allophycocyanin gamma subunit

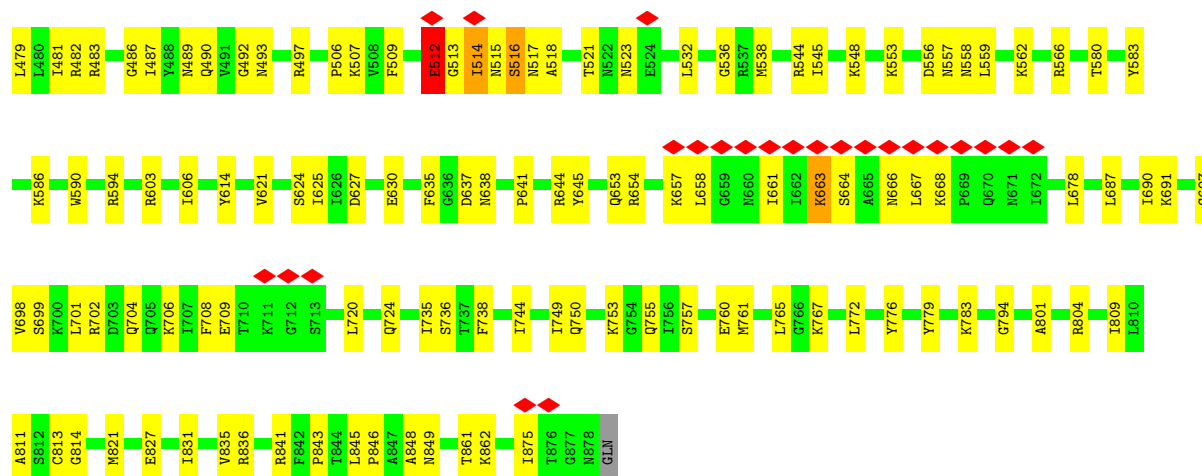


- Molecule 23: Allophycocyanin beta 18 subunit

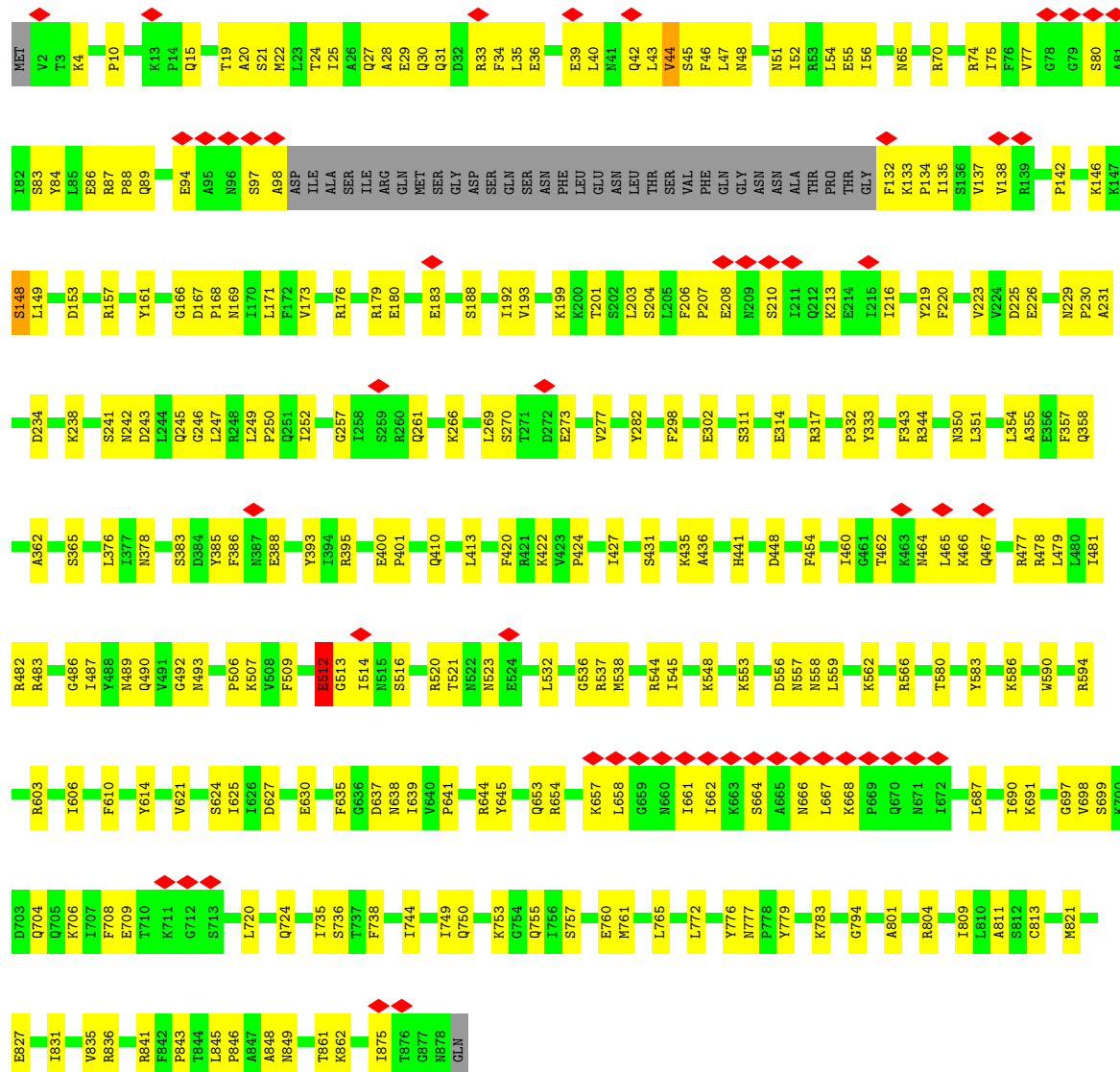


- Molecule 23: Allophycocyanin beta 18 subunit



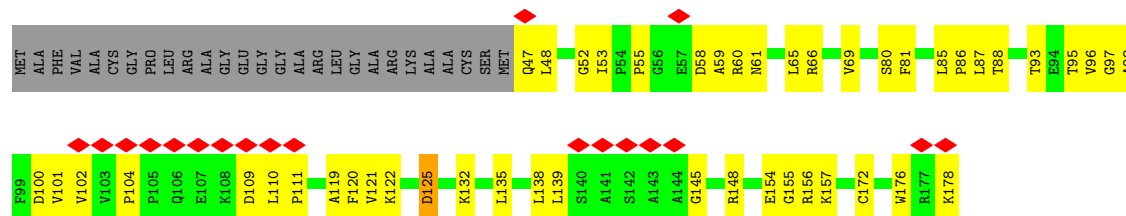


• Molecule 25: Phycobilisome linker polypeptide

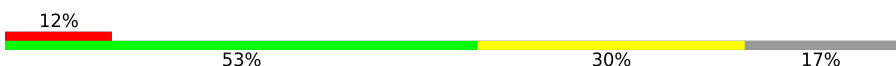


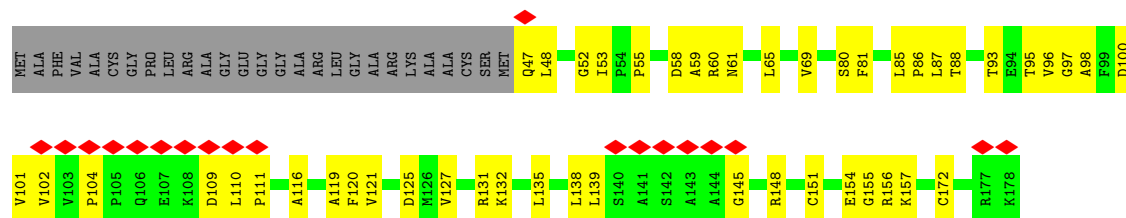
- Molecule 26: Lrc4

Chain ZP: 

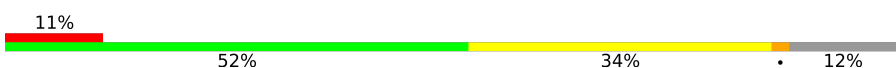


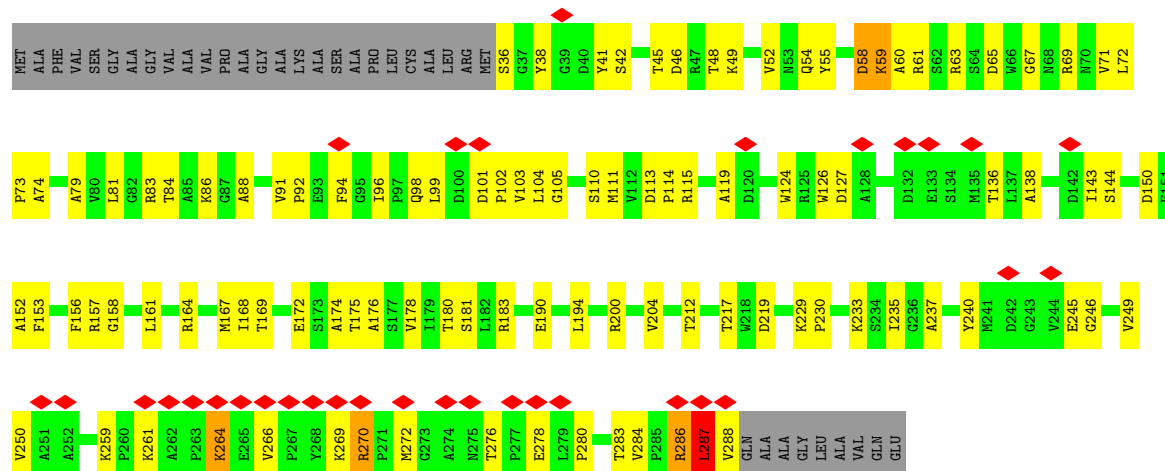
- Molecule 26: Lrc4

Chain 2P: 

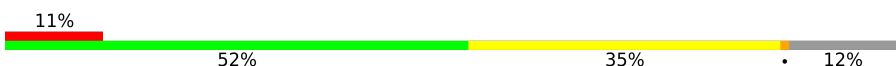


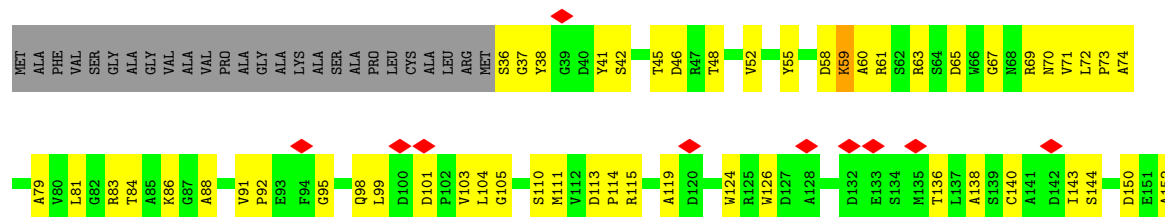
- Molecule 27: LRC5

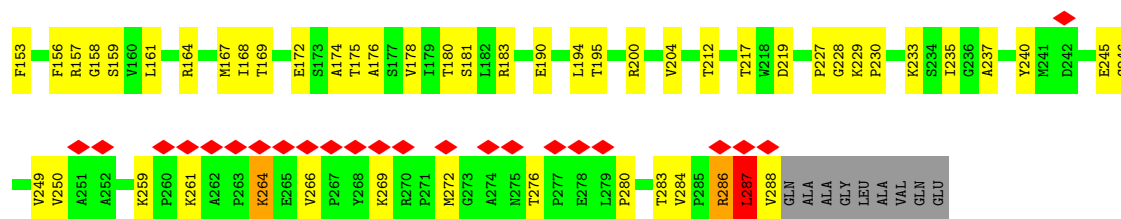
Chain aP: 



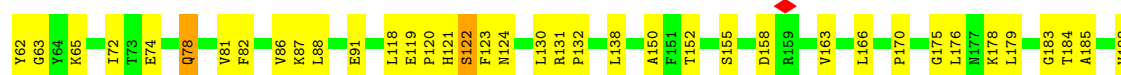
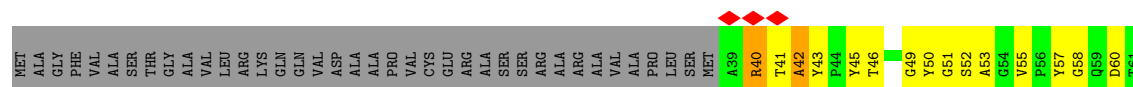
- Molecule 27: LRC5

Chain 3P: 

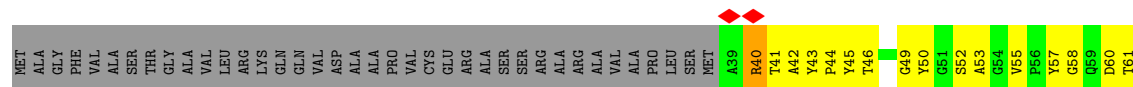




• Molecule 28: FAS1 domain-containing protein



• Molecule 28: FAS1 domain-containing protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	87399	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	2300	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.121	Depositor
Minimum map value	-0.065	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.02	Depositor
Map size ($\text{\AA}$)	618.2801, 618.2801, 618.2801	wwPDB
Map dimensions	580, 580, 580	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.0660001, 1.0660001, 1.0660001	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MEN, PUB, PMS, CYC, PEB

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	X1	0.45	0/2585	0.71	0/3492
1	X7	0.41	0/2585	0.74	4/3492 (0.1%)
1	X9	0.41	0/2585	0.74	4/3492 (0.1%)
1	XF	0.47	0/2585	0.72	3/3492 (0.1%)
1	XI	0.47	0/2581	0.72	3/3488 (0.1%)
1	XK	0.45	0/2585	0.71	0/3492
2	A1	0.35	0/2025	0.69	0/2722
2	A7	0.34	0/2025	0.66	0/2722
2	A9	0.34	0/2025	0.67	0/2722
2	AF	0.37	0/2025	0.66	0/2722
2	AI	0.37	0/2025	0.66	0/2722
2	AK	0.35	0/2025	0.69	0/2722
3	B1	0.48	0/1917	0.79	6/2592 (0.2%)
3	B7	0.41	0/1933	0.80	8/2614 (0.3%)
3	B9	0.41	0/1933	0.80	7/2614 (0.3%)
3	BF	0.52	0/1941	0.69	0/2625
3	BI	0.52	0/1941	0.71	0/2625
3	BK	0.48	0/1917	0.79	7/2592 (0.3%)
4	C1	0.31	0/1251	0.59	0/1699
4	C7	0.33	0/1251	0.58	0/1699
4	C9	0.33	0/1251	0.58	0/1699
4	CF	0.41	0/1251	0.62	2/1699 (0.1%)
4	CI	0.41	0/1251	0.62	2/1699 (0.1%)
4	CK	0.31	0/1251	0.59	0/1699
4	E1	0.30	0/1251	0.56	0/1699
4	E7	0.33	0/1251	0.58	0/1699
4	E9	0.33	0/1251	0.58	0/1699
4	EF	0.41	0/1251	0.62	2/1699 (0.1%)
4	EI	0.41	0/1251	0.63	2/1699 (0.1%)
4	EK	0.30	0/1251	0.56	0/1699
4	G1	0.31	0/1251	0.60	0/1699
4	G7	0.33	0/1251	0.58	0/1699

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	G9	0.33	0/1251	0.58	0/1699
4	GF	0.41	0/1251	0.62	2/1699 (0.1%)
4	GI	0.41	0/1251	0.62	2/1699 (0.1%)
4	GK	0.31	0/1251	0.60	0/1699
4	I1	0.32	0/1251	0.58	0/1699
4	I7	0.33	0/1251	0.61	1/1699 (0.1%)
4	I9	0.33	0/1251	0.61	1/1699 (0.1%)
4	IF	0.41	0/1251	0.62	2/1699 (0.1%)
4	II	0.41	0/1251	0.62	2/1699 (0.1%)
4	IK	0.32	0/1251	0.58	0/1699
4	K1	0.32	0/1251	0.57	0/1699
4	K7	0.34	0/1251	0.57	0/1699
4	K9	0.34	0/1251	0.58	0/1699
4	KF	0.41	0/1251	0.65	3/1699 (0.2%)
4	KI	0.41	0/1251	0.65	3/1699 (0.2%)
4	KK	0.33	0/1251	0.57	0/1699
4	M1	0.31	0/1251	0.57	0/1699
4	M7	0.33	0/1251	0.59	0/1699
4	M9	0.33	0/1251	0.58	0/1699
4	MF	0.45	1/1251 (0.1%)	0.82	7/1699 (0.4%)
4	MI	0.45	1/1251 (0.1%)	0.82	7/1699 (0.4%)
4	MK	0.31	0/1251	0.57	0/1699
5	D1	0.35	0/1274	0.68	1/1723 (0.1%)
5	D7	0.42	0/1274	0.76	2/1723 (0.1%)
5	D9	0.42	0/1274	0.76	2/1723 (0.1%)
5	DF	0.43	0/1274	0.63	0/1723
5	DI	0.43	0/1274	0.63	0/1723
5	DK	0.35	0/1274	0.68	1/1723 (0.1%)
5	F1	0.37	0/1274	0.71	2/1723 (0.1%)
5	F7	0.40	0/1274	0.75	1/1723 (0.1%)
5	F9	0.42	0/1274	0.77	1/1723 (0.1%)
5	FF	0.43	0/1274	0.65	1/1723 (0.1%)
5	FI	0.43	0/1274	0.65	0/1723
5	FK	0.37	0/1274	0.72	2/1723 (0.1%)
5	H1	0.35	0/1274	0.66	1/1723 (0.1%)
5	H7	0.42	0/1274	0.73	2/1723 (0.1%)
5	H9	0.42	0/1274	0.73	2/1723 (0.1%)
5	HF	0.43	0/1274	0.63	0/1723
5	HI	0.43	0/1274	0.63	0/1723
5	HK	0.35	0/1274	0.66	1/1723 (0.1%)
5	J1	0.38	0/1274	0.77	4/1723 (0.2%)
5	J7	0.42	0/1274	0.75	2/1723 (0.1%)
5	J9	0.42	0/1274	0.75	2/1723 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	JF	0.43	0/1274	0.78	5/1723 (0.3%)
5	JI	0.43	0/1274	0.80	5/1723 (0.3%)
5	JK	0.39	0/1274	0.77	4/1723 (0.2%)
5	L1	0.38	0/1274	0.75	4/1723 (0.2%)
5	L7	0.42	0/1274	0.81	3/1723 (0.2%)
5	L9	0.42	0/1274	0.81	3/1723 (0.2%)
5	LF	0.43	0/1274	0.65	0/1723
5	LI	0.43	0/1274	0.65	0/1723
5	LK	0.38	0/1274	0.76	4/1723 (0.2%)
5	N1	0.36	0/1274	0.71	2/1723 (0.1%)
5	N7	0.42	0/1274	0.75	2/1723 (0.1%)
5	N9	0.42	0/1274	0.75	2/1723 (0.1%)
5	NF	0.44	0/1274	0.78	4/1723 (0.2%)
5	NI	0.44	0/1274	0.78	4/1723 (0.2%)
5	NK	0.36	0/1274	0.71	2/1723 (0.1%)
6	A3	0.39	1/1271 (0.1%)	0.73	5/1721 (0.3%)
6	AA	0.33	0/1271	0.72	2/1721 (0.1%)
6	AC	0.20	0/1271	0.50	0/1721
6	AE	0.20	0/1271	0.50	0/1721
6	AG	0.40	0/1271	0.79	2/1721 (0.1%)
6	AJ	0.33	0/1271	0.61	0/1721
6	AL	0.33	0/1271	0.61	0/1721
6	AN	0.33	0/1271	0.72	2/1721 (0.1%)
6	AO	0.39	1/1271 (0.1%)	0.73	5/1721 (0.3%)
6	AQ	0.40	0/1271	0.82	3/1721 (0.2%)
6	B4	0.60	0/1271	0.95	3/1721 (0.2%)
6	BD	0.60	0/1271	0.94	2/1721 (0.1%)
6	C3	0.34	0/1271	0.83	8/1721 (0.5%)
6	CA	0.34	0/1271	0.70	2/1721 (0.1%)
6	CB	0.27	0/1271	0.57	0/1721
6	CC	0.20	0/1271	0.51	0/1721
6	CE	0.20	0/1271	0.51	0/1721
6	CG	0.39	0/1271	0.80	2/1721 (0.1%)
6	CJ	0.32	0/1271	0.61	0/1721
6	CL	0.32	0/1271	0.61	0/1721
6	CM	0.27	0/1271	0.57	0/1721
6	CN	0.34	0/1271	0.70	2/1721 (0.1%)
6	CO	0.34	0/1271	0.83	8/1721 (0.5%)
6	CQ	0.39	0/1271	0.80	2/1721 (0.1%)
6	D4	0.59	0/1271	0.94	2/1721 (0.1%)
6	DD	0.60	0/1271	0.93	2/1721 (0.1%)
6	E3	0.36	0/1271	0.89	14/1721 (0.8%)
6	EA	0.33	0/1271	0.71	2/1721 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	EB	0.27	0/1271	0.57	1/1721 (0.1%)
6	EC	0.20	0/1271	0.51	0/1721
6	EE	0.20	0/1271	0.51	0/1721
6	EG	0.40	0/1271	0.79	2/1721 (0.1%)
6	EJ	0.33	0/1271	0.60	0/1721
6	EL	0.33	0/1271	0.60	0/1721
6	EM	0.27	0/1271	0.58	1/1721 (0.1%)
6	EN	0.33	0/1271	0.71	2/1721 (0.1%)
6	EO	0.36	0/1271	0.89	14/1721 (0.8%)
6	EQ	0.40	0/1271	0.79	2/1721 (0.1%)
6	F4	0.60	0/1271	0.96	3/1721 (0.2%)
6	FD	0.60	0/1271	0.95	2/1721 (0.1%)
6	G3	0.34	0/1271	0.86	10/1721 (0.6%)
6	GA	0.33	0/1271	0.71	2/1721 (0.1%)
6	GB	0.26	0/1271	0.54	0/1721
6	GC	0.20	0/1271	0.50	0/1721
6	GE	0.20	0/1271	0.50	0/1721
6	GG	0.40	0/1271	0.79	2/1721 (0.1%)
6	GJ	0.31	0/1271	0.64	0/1721
6	GL	0.31	0/1271	0.64	0/1721
6	GM	0.26	0/1271	0.54	0/1721
6	GN	0.33	0/1271	0.71	2/1721 (0.1%)
6	GO	0.34	0/1271	0.86	10/1721 (0.6%)
6	GQ	0.40	0/1271	0.79	2/1721 (0.1%)
6	H4	0.59	0/1271	0.93	2/1721 (0.1%)
6	HD	0.59	0/1271	0.93	2/1721 (0.1%)
6	I3	0.37	1/1271 (0.1%)	0.87	11/1721 (0.6%)
6	IA	0.37	0/1271	0.76	3/1721 (0.2%)
6	IB	0.27	0/1271	0.57	1/1721 (0.1%)
6	IC	0.20	0/1271	0.50	0/1721
6	IE	0.20	0/1271	0.50	0/1721
6	IG	0.40	0/1271	0.79	2/1721 (0.1%)
6	IJ	0.32	0/1271	0.61	0/1721
6	IL	0.32	0/1271	0.61	0/1721
6	IM	0.27	0/1271	0.57	1/1721 (0.1%)
6	IN	0.37	0/1271	0.76	3/1721 (0.2%)
6	IO	0.37	1/1271 (0.1%)	0.87	11/1721 (0.6%)
6	IQ	0.40	0/1271	0.79	2/1721 (0.1%)
6	J4	0.61	0/1271	0.95	2/1721 (0.1%)
6	J5	1.06	2/1271 (0.2%)	0.85	2/1721 (0.1%)
6	J8	1.06	2/1271 (0.2%)	0.86	2/1721 (0.1%)
6	JD	0.61	0/1271	0.95	2/1721 (0.1%)
6	K3	0.39	0/1271	0.90	11/1721 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	KA	0.33	0/1271	0.71	2/1721 (0.1%)
6	KB	0.27	0/1271	0.56	0/1721
6	KC	0.20	0/1271	0.50	0/1721
6	KE	0.20	0/1271	0.50	0/1721
6	KG	0.40	0/1271	0.79	2/1721 (0.1%)
6	KJ	0.33	0/1271	0.63	0/1721
6	KL	0.33	0/1271	0.63	0/1721
6	KM	0.27	0/1271	0.56	0/1721
6	KN	0.33	0/1271	0.71	2/1721 (0.1%)
6	KO	0.39	0/1271	0.90	11/1721 (0.6%)
6	KQ	0.40	0/1271	0.79	2/1721 (0.1%)
6	L4	0.60	0/1271	0.97	6/1721 (0.3%)
6	LD	0.61	0/1271	0.98	6/1721 (0.3%)
6	M2	0.48	0/1271	0.90	6/1721 (0.3%)
6	MB	0.27	0/1271	0.56	0/1721
6	MJ	0.31	0/1271	0.61	0/1721
6	ML	0.31	0/1271	0.62	0/1721
6	MM	0.27	0/1271	0.56	0/1721
6	MR	0.47	0/1271	0.82	3/1721 (0.2%)
6	O1	0.30	0/1271	0.59	0/1721
6	O2	0.44	0/1270	0.85	6/1721 (0.3%)
6	O7	0.30	0/1271	0.58	0/1721
6	O9	0.30	0/1271	0.58	0/1721
6	OB	0.28	0/1271	0.57	1/1721 (0.1%)
6	OF	0.43	2/1271 (0.2%)	0.90	11/1721 (0.6%)
6	OI	0.43	2/1271 (0.2%)	0.90	11/1721 (0.6%)
6	OJ	0.33	0/1271	0.60	0/1721
6	OK	0.30	0/1271	0.59	0/1721
6	OL	0.33	0/1271	0.60	0/1721
6	OM	0.28	0/1271	0.57	1/1721 (0.1%)
6	OR	0.44	0/1270	0.87	6/1721 (0.3%)
6	Q1	0.30	0/1271	0.59	0/1721
6	Q2	0.43	0/1271	0.86	5/1721 (0.3%)
6	Q7	0.30	0/1271	0.60	0/1721
6	Q9	0.30	0/1271	0.60	0/1721
6	QB	0.28	0/1271	0.56	1/1721 (0.1%)
6	QF	0.34	0/1271	0.75	4/1721 (0.2%)
6	QI	0.34	0/1271	0.75	4/1721 (0.2%)
6	QJ	0.33	0/1271	0.60	0/1721
6	QK	0.30	0/1271	0.59	0/1721
6	QL	0.33	0/1271	0.60	0/1721
6	QM	0.28	0/1271	0.56	1/1721 (0.1%)
6	QR	0.42	0/1271	0.84	5/1721 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	S1	0.30	0/1271	0.59	0/1721
6	S2	0.45	0/1270	0.97	10/1721 (0.6%)
6	S7	0.30	0/1271	0.60	0/1721
6	S9	0.30	0/1271	0.60	0/1721
6	SB	0.27	0/1271	0.55	0/1721
6	SF	0.34	0/1271	0.76	5/1721 (0.3%)
6	SI	0.34	0/1271	0.76	5/1721 (0.3%)
6	SJ	0.32	0/1271	0.62	0/1721
6	SK	0.30	0/1271	0.59	0/1721
6	SL	0.32	0/1271	0.62	0/1721
6	SM	0.27	0/1271	0.55	0/1721
6	SR	0.47	0/1270	1.04	13/1721 (0.8%)
6	U1	0.29	0/1271	0.60	0/1721
6	U2	0.42	0/1270	0.85	6/1721 (0.3%)
6	U7	0.30	0/1271	0.58	0/1721
6	U9	0.30	0/1271	0.58	0/1721
6	UB	0.27	0/1271	0.57	1/1721 (0.1%)
6	UF	0.35	0/1271	0.79	5/1721 (0.3%)
6	UI	0.35	0/1271	0.79	5/1721 (0.3%)
6	UJ	0.32	0/1271	0.64	0/1721
6	UK	0.29	0/1271	0.60	0/1721
6	UL	0.32	0/1271	0.64	0/1721
6	UM	0.27	0/1271	0.57	1/1721 (0.1%)
6	UR	0.41	0/1270	0.88	7/1721 (0.4%)
6	W1	0.29	0/1271	0.57	0/1721
6	W2	0.43	0/1271	0.91	10/1721 (0.6%)
6	W7	0.30	0/1271	0.62	1/1721 (0.1%)
6	W9	0.30	0/1271	0.62	1/1721 (0.1%)
6	WB	0.28	0/1271	0.57	1/1721 (0.1%)
6	WF	0.34	0/1271	0.77	5/1721 (0.3%)
6	WI	0.34	0/1271	0.77	5/1721 (0.3%)
6	WJ	0.33	0/1271	0.61	0/1721
6	WK	0.29	0/1271	0.57	0/1721
6	WL	0.33	0/1271	0.61	0/1721
6	WM	0.28	0/1271	0.57	1/1721 (0.1%)
6	WR	0.44	0/1271	0.91	7/1721 (0.4%)
6	YB	0.27	0/1271	0.54	0/1721
6	YJ	0.32	0/1271	0.60	0/1721
6	YL	0.32	0/1271	0.60	0/1721
6	YM	0.27	0/1271	0.55	0/1721
6	Z1	0.29	0/1271	0.58	0/1721
6	Z7	0.30	0/1271	0.58	0/1721
6	Z9	0.30	0/1271	0.58	0/1721

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	ZF	0.40	2/1271 (0.2%)	0.73	4/1721 (0.2%)
6	ZI	0.39	2/1271 (0.2%)	0.77	6/1721 (0.3%)
6	ZK	0.29	0/1271	0.58	0/1721
6	aB	0.27	0/1271	0.57	1/1721 (0.1%)
6	aJ	0.33	0/1271	0.61	0/1721
6	aL	0.33	0/1271	0.61	0/1721
6	aM	0.27	0/1271	0.57	1/1721 (0.1%)
6	b1	0.30	0/1271	0.59	0/1721
6	b7	0.30	0/1271	0.58	0/1721
6	b9	0.30	0/1271	0.58	0/1721
6	bF	0.43	2/1271 (0.2%)	0.85	9/1721 (0.5%)
6	bI	0.43	2/1271 (0.2%)	0.85	9/1721 (0.5%)
6	bK	0.30	0/1271	0.59	0/1721
6	cJ	0.33	0/1271	0.61	0/1721
6	cL	0.33	0/1271	0.61	0/1721
6	d1	0.29	0/1271	0.58	0/1721
6	d7	0.30	0/1271	0.58	0/1721
6	d9	0.30	0/1271	0.58	0/1721
6	dB	0.28	0/1271	0.57	1/1721 (0.1%)
6	dF	0.37	0/1271	0.85	7/1721 (0.4%)
6	dI	0.37	0/1271	0.85	7/1721 (0.4%)
6	dK	0.29	0/1271	0.59	0/1721
6	dM	0.28	0/1271	0.57	1/1721 (0.1%)
6	eJ	0.32	0/1271	0.60	0/1721
6	eL	0.32	0/1271	0.60	0/1721
6	f1	0.30	0/1271	0.59	0/1721
6	f7	0.30	0/1271	0.58	0/1721
6	f9	0.30	0/1271	0.58	0/1721
6	fB	0.28	0/1271	0.58	1/1721 (0.1%)
6	fF	0.37	1/1271 (0.1%)	0.84	5/1721 (0.3%)
6	fI	0.37	1/1271 (0.1%)	0.84	5/1721 (0.3%)
6	fK	0.30	0/1271	0.59	0/1721
6	fM	0.28	0/1271	0.58	1/1721 (0.1%)
6	gJ	0.33	0/1271	0.60	0/1721
6	gL	0.33	0/1271	0.62	0/1721
6	h1	0.29	0/1271	0.59	0/1721
6	h7	0.30	0/1271	0.58	0/1721
6	h9	0.30	0/1271	0.58	0/1721
6	hB	0.28	0/1271	0.58	1/1721 (0.1%)
6	hF	0.35	0/1271	0.76	5/1721 (0.3%)
6	hI	0.35	0/1271	0.76	5/1721 (0.3%)
6	hK	0.29	0/1271	0.59	0/1721
6	hM	0.28	0/1271	0.57	1/1721 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	iJ	0.33	0/1271	0.61	0/1721
6	iL	0.33	0/1271	0.61	0/1721
6	j1	0.30	0/1271	0.59	0/1721
6	j7	0.30	0/1271	0.58	0/1721
6	j9	0.30	0/1271	0.58	0/1721
6	jB	0.27	0/1271	0.55	1/1721 (0.1%)
6	jF	0.33	0/1271	0.66	2/1721 (0.1%)
6	jI	0.33	0/1271	0.66	2/1721 (0.1%)
6	jK	0.30	0/1271	0.59	0/1721
6	jM	0.27	0/1271	0.56	0/1721
6	kJ	0.32	0/1271	0.60	0/1721
6	kL	0.32	0/1271	0.60	0/1721
6	l1	0.29	0/1271	0.57	0/1721
6	l7	0.30	0/1271	0.60	0/1721
6	l9	0.30	0/1271	0.60	0/1721
6	lB	0.27	0/1271	0.55	0/1721
6	lF	0.36	0/1271	0.83	6/1721 (0.3%)
6	lI	0.36	0/1271	0.83	6/1721 (0.3%)
6	lK	0.29	0/1271	0.57	0/1721
6	lM	0.27	0/1271	0.57	0/1721
6	mJ	0.33	0/1271	0.60	0/1721
6	mL	0.33	0/1271	0.60	0/1721
6	oJ	0.33	0/1271	0.60	0/1721
6	oL	0.33	0/1271	0.60	0/1721
6	qJ	0.32	0/1271	0.60	0/1721
6	qL	0.32	0/1271	0.61	0/1721
6	sJ	0.33	0/1271	0.60	0/1721
6	sL	0.33	0/1271	0.60	0/1721
6	uJ	0.32	0/1271	0.60	0/1721
6	uL	0.32	0/1271	0.60	0/1721
7	A5	0.45	0/1297	0.88	2/1750 (0.1%)
7	A8	0.45	0/1297	0.88	2/1750 (0.1%)
7	B3	0.43	3/1297 (0.2%)	0.90	15/1750 (0.9%)
7	B5	0.28	0/1065	0.59	0/1437
7	B8	0.28	0/1065	0.62	1/1437 (0.1%)
7	BA	0.32	0/1297	0.65	1/1750 (0.1%)
7	BC	0.24	0/1297	0.61	0/1750
7	BE	0.24	0/1297	0.61	0/1750
7	BG	0.34	0/1297	0.67	0/1750
7	BJ	0.32	0/1297	0.66	1/1750 (0.1%)
7	BL	0.32	0/1297	0.66	1/1750 (0.1%)
7	BN	0.32	0/1297	0.65	1/1750 (0.1%)
7	BO	0.43	3/1297 (0.2%)	0.90	15/1750 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	BQ	0.34	0/1297	0.67	0/1750
7	C4	0.69	0/1297	1.04	5/1750 (0.3%)
7	C5	0.46	1/1297 (0.1%)	0.87	3/1750 (0.2%)
7	C8	0.46	1/1297 (0.1%)	0.87	3/1750 (0.2%)
7	CD	0.69	0/1297	1.04	5/1750 (0.3%)
7	D3	0.39	2/1297 (0.2%)	0.85	13/1750 (0.7%)
7	DA	0.32	0/1297	0.65	1/1750 (0.1%)
7	DB	0.30	0/1309	0.71	3/1766 (0.2%)
7	DC	0.24	0/1297	0.61	0/1750
7	DE	0.24	0/1297	0.61	0/1750
7	DG	0.34	0/1297	0.66	0/1750
7	DJ	0.32	0/1297	0.65	1/1750 (0.1%)
7	DL	0.32	0/1297	0.65	1/1750 (0.1%)
7	DM	0.30	0/1309	0.71	3/1766 (0.2%)
7	DN	0.32	0/1297	0.65	1/1750 (0.1%)
7	DO	0.39	2/1297 (0.2%)	0.85	13/1750 (0.7%)
7	DQ	0.34	0/1297	0.66	0/1750
7	E4	0.66	0/1297	1.02	5/1750 (0.3%)
7	ED	0.69	0/1297	1.04	5/1750 (0.3%)
7	F3	0.33	0/1297	0.67	4/1750 (0.2%)
7	F5	0.27	0/1065	0.59	0/1437
7	F8	0.27	0/1065	0.59	0/1437
7	FA	0.32	0/1297	0.65	1/1750 (0.1%)
7	FB	0.30	0/1303	0.71	3/1758 (0.2%)
7	FC	0.24	0/1297	0.61	0/1750
7	FE	0.24	0/1297	0.61	0/1750
7	FG	0.35	0/1297	0.69	0/1750
7	FJ	0.32	0/1297	0.66	1/1750 (0.1%)
7	FL	0.32	0/1297	0.66	1/1750 (0.1%)
7	FM	0.30	0/1303	0.71	3/1758 (0.2%)
7	FN	0.32	0/1297	0.65	1/1750 (0.1%)
7	FO	0.33	0/1297	0.67	4/1750 (0.2%)
7	FQ	0.34	0/1297	0.66	0/1750
7	G4	0.69	0/1297	1.06	6/1750 (0.3%)
7	G5	0.27	0/1065	0.59	0/1437
7	G8	0.27	0/1065	0.59	0/1437
7	GD	0.69	0/1297	1.06	6/1750 (0.3%)
7	H3	0.37	1/1297 (0.1%)	0.81	10/1750 (0.6%)
7	H5	0.28	0/1065	0.59	0/1437
7	H8	0.28	0/1065	0.59	0/1437
7	HA	0.32	0/1303	0.65	1/1758 (0.1%)
7	HB	0.30	0/1309	0.71	3/1766 (0.2%)
7	HC	0.24	0/1297	0.61	0/1750

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	HE	0.24	0/1297	0.61	0/1750
7	HG	0.34	0/1303	0.66	0/1758
7	HJ	0.29	0/1297	0.65	0/1750
7	HL	0.29	0/1297	0.65	0/1750
7	HM	0.30	0/1309	0.71	3/1766 (0.2%)
7	HN	0.32	0/1303	0.65	1/1758 (0.1%)
7	HO	0.37	1/1297 (0.1%)	0.81	10/1750 (0.6%)
7	HQ	0.34	0/1303	0.66	0/1758
7	I4	0.69	0/1303	1.04	6/1758 (0.3%)
7	I5	0.32	0/1297	0.75	2/1750 (0.1%)
7	I8	0.31	0/1297	0.77	2/1750 (0.1%)
7	ID	0.69	0/1303	1.03	6/1758 (0.3%)
7	J3	0.33	0/1297	0.69	4/1750 (0.2%)
7	JA	0.32	0/1297	0.62	0/1750
7	JB	0.30	0/1309	0.68	3/1766 (0.2%)
7	JC	0.24	0/1297	0.61	0/1750
7	JE	0.24	0/1297	0.61	0/1750
7	JG	0.34	0/1297	0.66	0/1750
7	JJ	0.33	0/1297	0.65	1/1750 (0.1%)
7	JL	0.33	0/1297	0.65	1/1750 (0.1%)
7	JM	0.30	0/1309	0.68	3/1766 (0.2%)
7	JN	0.32	0/1297	0.62	0/1750
7	JO	0.33	0/1297	0.69	4/1750 (0.2%)
7	JQ	0.34	0/1297	0.66	0/1750
7	K4	0.69	0/1297	1.04	5/1750 (0.3%)
7	K5	0.71	0/1297	0.88	5/1750 (0.3%)
7	K8	0.71	0/1297	0.91	6/1750 (0.3%)
7	KD	0.69	0/1297	1.04	5/1750 (0.3%)
7	L3	0.35	1/1297 (0.1%)	0.74	6/1750 (0.3%)
7	L5	0.28	0/1065	0.60	0/1437
7	L8	0.28	0/1065	0.59	0/1437
7	LA	0.33	0/1297	0.66	1/1750 (0.1%)
7	LB	0.30	0/1309	0.71	3/1766 (0.2%)
7	LC	0.24	0/1297	0.61	0/1750
7	LE	0.24	0/1297	0.61	0/1750
7	LG	0.34	0/1297	0.66	0/1750
7	LJ	0.32	0/1297	0.66	1/1750 (0.1%)
7	LL	0.32	0/1297	0.66	1/1750 (0.1%)
7	LM	0.30	0/1309	0.71	3/1766 (0.2%)
7	LN	0.33	0/1297	0.66	1/1750 (0.1%)
7	LO	0.35	1/1297 (0.1%)	0.74	6/1750 (0.3%)
7	LQ	0.34	0/1297	0.69	0/1750
7	M3	0.30	0/1065	0.87	5/1437 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	M4	0.68	0/1297	1.04	5/1750 (0.3%)
7	MD	0.69	0/1297	1.04	5/1750 (0.3%)
7	MO	0.30	0/1065	0.87	5/1437 (0.3%)
7	N2	0.41	0/1297	0.75	1/1750 (0.1%)
7	N3	0.28	0/1065	0.74	1/1437 (0.1%)
7	NB	0.29	0/1309	0.65	0/1766
7	NJ	0.32	0/1297	0.66	1/1750 (0.1%)
7	NL	0.32	0/1297	0.66	1/1750 (0.1%)
7	NM	0.29	0/1309	0.65	0/1766
7	NO	0.28	0/1065	0.74	1/1437 (0.1%)
7	NR	0.41	0/1297	0.75	1/1750 (0.1%)
7	P1	0.30	0/1297	0.56	0/1750
7	P2	0.43	0/1303	0.73	0/1758
7	P7	0.29	0/1297	0.58	0/1750
7	P9	0.29	0/1297	0.58	0/1750
7	PB	0.30	0/1297	0.69	3/1750 (0.2%)
7	PF	0.36	0/1297	0.65	1/1750 (0.1%)
7	PI	0.36	0/1297	0.65	1/1750 (0.1%)
7	PJ	0.32	0/1303	0.66	1/1758 (0.1%)
7	PK	0.30	0/1297	0.56	0/1750
7	PL	0.32	0/1303	0.66	1/1758 (0.1%)
7	PM	0.30	0/1297	0.69	3/1750 (0.2%)
7	PR	0.44	0/1303	0.77	2/1758 (0.1%)
7	R1	0.30	0/1297	0.56	0/1750
7	R2	0.37	0/1297	0.73	2/1750 (0.1%)
7	R7	0.30	0/1297	0.59	0/1750
7	R9	0.30	0/1297	0.59	0/1750
7	RB	0.30	0/1303	0.67	3/1758 (0.2%)
7	RF	0.36	0/1297	0.60	1/1750 (0.1%)
7	RI	0.36	0/1297	0.60	1/1750 (0.1%)
7	RJ	0.33	0/1297	0.64	0/1750
7	RK	0.30	0/1297	0.56	0/1750
7	RL	0.33	0/1297	0.64	0/1750
7	RM	0.30	0/1303	0.67	3/1758 (0.2%)
7	RR	0.37	0/1297	0.73	2/1750 (0.1%)
7	T1	0.30	0/1297	0.61	0/1750
7	T2	0.45	0/1297	0.76	1/1750 (0.1%)
7	T7	0.30	0/1297	0.59	0/1750
7	T9	0.30	0/1297	0.59	0/1750
7	TB	0.30	0/1303	0.69	1/1758 (0.1%)
7	TF	0.43	1/1297 (0.1%)	0.67	3/1750 (0.2%)
7	TI	0.44	1/1297 (0.1%)	0.67	3/1750 (0.2%)
7	TJ	0.33	0/1297	0.65	1/1750 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	TK	0.30	0/1297	0.61	0/1750
7	TL	0.33	0/1297	0.65	1/1750 (0.1%)
7	TM	0.30	0/1303	0.69	1/1758 (0.1%)
7	TR	0.45	0/1297	0.76	1/1750 (0.1%)
7	V1	0.30	0/1309	0.56	0/1766
7	V2	0.51	0/1297	0.88	4/1750 (0.2%)
7	V7	0.30	0/1297	0.61	0/1750
7	V9	0.31	0/1297	0.61	0/1750
7	VB	0.30	0/1309	0.69	3/1766 (0.2%)
7	VF	0.40	1/1309 (0.1%)	0.68	2/1766 (0.1%)
7	VI	0.40	1/1309 (0.1%)	0.68	2/1766 (0.1%)
7	VJ	0.32	0/1297	0.64	1/1750 (0.1%)
7	VK	0.30	0/1309	0.56	0/1766
7	VL	0.32	0/1297	0.64	1/1750 (0.1%)
7	VM	0.30	0/1309	0.69	3/1766 (0.2%)
7	VR	0.51	0/1297	0.88	4/1750 (0.2%)
7	X2	0.44	0/1297	0.84	4/1750 (0.2%)
7	XB	0.30	0/1309	0.71	3/1766 (0.2%)
7	XJ	0.32	0/1303	0.64	0/1758
7	XL	0.32	0/1303	0.64	0/1758
7	XM	0.30	0/1309	0.71	3/1766 (0.2%)
7	XR	0.44	0/1297	0.84	4/1750 (0.2%)
7	Y1	0.30	0/1297	0.57	0/1750
7	Y7	0.30	0/1297	0.59	0/1750
7	Y9	0.30	0/1297	0.59	0/1750
7	YF	0.37	0/1297	0.66	2/1750 (0.1%)
7	YI	0.37	0/1297	0.66	2/1750 (0.1%)
7	YK	0.30	0/1297	0.57	0/1750
7	ZB	0.30	0/1309	0.69	3/1766 (0.2%)
7	ZJ	0.32	0/1297	0.64	0/1750
7	ZL	0.32	0/1297	0.64	0/1750
7	ZM	0.30	0/1309	0.69	3/1766 (0.2%)
7	a1	0.30	0/1297	0.57	0/1750
7	a7	0.30	0/1297	0.72	3/1750 (0.2%)
7	a9	0.31	0/1297	0.72	3/1750 (0.2%)
7	aF	0.37	0/1297	0.73	5/1750 (0.3%)
7	aI	0.37	0/1297	0.73	5/1750 (0.3%)
7	aK	0.30	0/1297	0.57	0/1750
7	bJ	0.32	0/1297	0.65	1/1750 (0.1%)
7	bL	0.32	0/1297	0.65	1/1750 (0.1%)
7	c1	0.30	0/1297	0.57	0/1750
7	c7	0.30	0/1297	0.63	0/1750
7	c9	0.30	0/1297	0.63	0/1750

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	cB	0.30	0/1303	0.71	3/1758 (0.2%)
7	cF	0.40	1/1297 (0.1%)	0.72	5/1750 (0.3%)
7	cI	0.40	1/1297 (0.1%)	0.72	5/1750 (0.3%)
7	cK	0.30	0/1297	0.57	0/1750
7	cM	0.30	0/1303	0.71	3/1758 (0.2%)
7	dJ	0.32	0/1297	0.64	1/1750 (0.1%)
7	dL	0.32	0/1297	0.64	1/1750 (0.1%)
7	e1	0.30	0/1297	0.56	0/1750
7	e7	0.30	0/1297	0.60	0/1750
7	e9	0.30	0/1297	0.60	0/1750
7	eB	0.29	0/1309	0.69	3/1766 (0.2%)
7	eF	0.46	1/1297 (0.1%)	0.79	9/1750 (0.5%)
7	eI	0.46	1/1297 (0.1%)	0.79	9/1750 (0.5%)
7	eK	0.30	0/1297	0.56	0/1750
7	eM	0.29	0/1309	0.69	3/1766 (0.2%)
7	fJ	0.32	0/1297	0.65	1/1750 (0.1%)
7	fL	0.32	0/1297	0.65	1/1750 (0.1%)
7	g1	0.30	0/1297	0.58	0/1750
7	g7	0.30	0/1297	0.60	0/1750
7	g9	0.30	0/1297	0.60	0/1750
7	gB	0.30	0/1309	0.69	3/1766 (0.2%)
7	gF	0.39	0/1297	0.72	3/1750 (0.2%)
7	gI	0.39	0/1297	0.72	3/1750 (0.2%)
7	gK	0.30	0/1297	0.58	0/1750
7	gM	0.30	0/1309	0.69	3/1766 (0.2%)
7	hJ	0.32	0/1297	0.64	1/1750 (0.1%)
7	hL	0.32	0/1297	0.64	1/1750 (0.1%)
7	i1	0.30	0/1303	0.56	0/1758
7	i7	0.30	0/1303	0.60	0/1758
7	i9	0.30	0/1303	0.60	0/1758
7	iB	0.29	0/1309	0.68	2/1766 (0.1%)
7	iF	0.38	0/1303	0.68	3/1758 (0.2%)
7	iI	0.38	0/1303	0.68	3/1758 (0.2%)
7	iK	0.30	0/1303	0.56	0/1758
7	iM	0.29	0/1309	0.68	2/1766 (0.1%)
7	jJ	0.32	0/1303	0.63	0/1758
7	jL	0.32	0/1303	0.63	0/1758
7	k1	0.30	0/1297	0.59	0/1750
7	k7	0.30	0/1297	0.61	0/1750
7	k9	0.30	0/1297	0.61	0/1750
7	kB	0.30	0/1309	0.69	3/1766 (0.2%)
7	kF	0.38	0/1297	0.70	4/1750 (0.2%)
7	kI	0.38	0/1297	0.70	4/1750 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	kK	0.30	0/1297	0.59	0/1750
7	kM	0.30	0/1309	0.69	3/1766 (0.2%)
7	lJ	0.32	0/1297	0.66	1/1750 (0.1%)
7	lL	0.32	0/1297	0.66	1/1750 (0.1%)
7	m1	0.30	0/1297	0.59	0/1750
7	m7	0.32	0/1297	0.67	1/1750 (0.1%)
7	m9	0.32	0/1297	0.67	1/1750 (0.1%)
7	mB	0.30	0/1309	0.71	3/1766 (0.2%)
7	mF	0.38	0/1297	0.68	4/1750 (0.2%)
7	mI	0.38	0/1297	0.68	4/1750 (0.2%)
7	mK	0.30	0/1297	0.59	0/1750
7	mM	0.30	0/1309	0.71	3/1766 (0.2%)
7	nJ	0.32	0/1297	0.64	0/1750
7	nL	0.32	0/1297	0.64	0/1750
7	pJ	0.32	0/1297	0.64	0/1750
7	pL	0.32	0/1297	0.64	0/1750
7	rJ	0.32	0/1297	0.64	0/1750
7	rL	0.32	0/1297	0.64	0/1750
7	tJ	0.32	0/1297	0.64	1/1750 (0.1%)
7	tL	0.32	0/1297	0.64	1/1750 (0.1%)
7	vJ	0.32	0/1297	0.64	0/1750
7	vL	0.32	0/1297	0.64	0/1750
8	e2	0.58	0/1973	0.77	4/2657 (0.2%)
8	eR	0.60	0/1973	0.72	3/2657 (0.1%)
9	O3	0.34	0/2936	0.68	4/3989 (0.1%)
9	OO	0.34	0/2936	0.68	4/3989 (0.1%)
10	d4	0.81	1/2332 (0.0%)	0.86	4/3145 (0.1%)
10	dD	0.82	1/2332 (0.0%)	0.86	4/3145 (0.1%)
11	D5	0.27	0/670	0.64	0/904
11	D8	0.27	0/670	0.64	0/904
12	E5	0.28	0/1612	0.55	0/2179
12	E8	0.28	0/1612	0.53	0/2179
13	k6	0.44	0/2233	0.63	2/3024 (0.1%)
13	kH	0.44	0/2233	0.66	2/3024 (0.1%)
14	MA	0.40	0/1882	0.75	1/2518 (0.0%)
14	MG	0.44	0/1882	0.77	3/2518 (0.1%)
14	MN	0.40	0/1882	0.77	3/2518 (0.1%)
14	MQ	0.43	0/1882	0.78	3/2518 (0.1%)
15	bB	0.39	0/3022	0.71	3/4084 (0.1%)
15	bM	0.38	0/3022	0.72	5/4084 (0.1%)
16	AB	0.32	0/1843	0.65	1/2469 (0.0%)
16	AM	0.32	0/1843	0.65	1/2469 (0.0%)
16	wJ	0.41	0/1843	0.94	8/2469 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	wL	0.41	0/1843	0.94	8/2469 (0.3%)
16	xJ	0.41	0/1843	0.94	7/2469 (0.3%)
16	xL	0.41	0/1843	0.95	8/2469 (0.3%)
17	BB	0.35	0/1932	0.62	0/2590
17	BM	0.35	0/1932	0.62	0/2590
17	yJ	0.39	0/1932	0.61	0/2590
17	yL	0.39	0/1932	0.61	0/2590
18	MC	0.34	0/2247	0.94	16/3036 (0.5%)
18	ME	0.33	0/2247	0.97	19/3036 (0.6%)
19	zJ	0.39	0/2964	0.66	2/4003 (0.0%)
19	zL	0.39	0/2964	0.66	2/4003 (0.0%)
20	AP	0.23	0/1241	0.47	0/1676
20	CP	0.23	0/1241	0.47	0/1676
20	EP	0.23	0/1241	0.47	0/1676
20	GP	0.23	0/1241	0.47	0/1676
20	JP	0.23	0/1241	0.47	0/1676
20	KP	0.23	0/1241	0.47	0/1676
20	NP	0.23	0/1241	0.47	0/1676
20	PP	0.23	0/1241	0.47	0/1676
20	RP	0.23	0/1241	0.47	0/1676
20	TP	0.23	0/1241	0.47	0/1676
20	cP	0.23	0/1241	0.47	0/1676
20	eP	0.23	0/1241	0.47	0/1676
20	gP	0.23	0/1241	0.47	0/1676
20	iP	0.23	0/1241	0.47	0/1676
20	lP	0.23	0/1241	0.47	0/1676
20	mP	0.23	0/1241	0.47	0/1676
20	pP	0.23	0/1241	0.47	0/1676
20	rP	0.22	0/1241	0.47	0/1676
20	tP	0.23	0/1241	0.47	0/1676
20	vP	0.23	0/1241	0.47	0/1676
21	BP	0.22	0/1226	0.43	0/1655
21	DP	0.22	0/1226	0.43	0/1655
21	FP	0.23	0/1226	0.44	0/1655
21	HP	0.22	0/1226	0.44	0/1655
21	IP	0.22	0/1226	0.43	0/1655
21	LP	0.22	0/1226	0.43	0/1655
21	MP	0.22	0/1226	0.44	0/1655
21	OP	0.22	0/1226	0.43	0/1655
21	QP	0.23	0/1226	0.44	0/1655
21	SP	0.22	0/1226	0.43	0/1655
21	UP	0.23	0/1226	0.44	0/1655
21	dP	0.22	0/1226	0.43	0/1655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
21	fP	0.22	0/1226	0.43	0/1655
21	hP	0.22	0/1226	0.43	0/1655
21	jP	0.22	0/1226	0.43	0/1655
21	kP	0.22	0/1226	0.43	0/1655
21	nP	0.22	0/1226	0.43	0/1655
21	oP	0.23	0/1226	0.47	0/1655
21	qP	0.22	0/1226	0.43	0/1655
21	sP	0.23	0/1226	0.44	0/1655
21	uP	0.22	0/1226	0.43	0/1655
21	wP	0.23	0/1226	0.44	0/1655
22	VP	0.23	0/1281	0.49	1/1731 (0.1%)
22	xP	0.23	0/1281	0.49	1/1731 (0.1%)
23	WP	0.21	0/1396	0.44	1/1886 (0.1%)
23	yP	0.21	0/1396	0.44	1/1886 (0.1%)
24	XP	0.28	0/732	0.49	0/981
24	zP	0.28	0/732	0.49	0/981
25	1P	0.21	0/6891	0.45	1/9305 (0.0%)
25	YP	0.21	0/6891	0.46	2/9305 (0.0%)
26	2P	0.23	0/1027	0.52	0/1399
26	ZP	0.23	0/1027	0.52	0/1399
27	3P	0.23	0/1940	0.52	1/2637 (0.0%)
27	aP	0.23	0/1940	0.53	1/2637 (0.0%)
28	4P	0.19	0/1574	0.46	1/2154 (0.0%)
28	bP	0.18	0/1574	0.44	1/2154 (0.0%)
All	All	0.36	50/891758 (0.0%)	0.68	1191/1205190 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
6	U2	0	1
6	UR	0	1
7	A5	0	1
7	A8	0	1
7	C5	0	1
7	C8	0	1
12	E5	0	1
12	E8	0	1
21	LP	0	1
21	jP	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
21	kP	0	1
All	All	0	11

All (50) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	eF	69	PRO	N-CD	-9.88	1.33	1.47
7	eI	69	PRO	N-CD	-9.88	1.33	1.47
7	TF	69	PRO	N-CD	-9.87	1.33	1.47
7	TI	69	PRO	N-CD	-9.87	1.33	1.47
6	bF	140	VAL	CA-C	6.76	1.58	1.52
6	bI	140	VAL	CA-C	6.76	1.58	1.52
6	OF	140	VAL	CA-C	6.73	1.58	1.52
6	OI	140	VAL	CA-C	6.73	1.58	1.52
7	VF	69	PRO	N-CD	-6.48	1.38	1.47
7	VI	69	PRO	N-CD	-6.48	1.38	1.47
6	J5	37	ARG	CB-CG	-6.43	1.33	1.52
6	J8	37	ARG	CB-CG	-6.40	1.33	1.52
6	OF	141	PRO	N-CD	-6.40	1.38	1.47
6	OI	141	PRO	N-CD	-6.40	1.38	1.47
6	bF	141	PRO	N-CD	-6.40	1.38	1.47
6	bI	141	PRO	N-CD	-6.40	1.38	1.47
7	B3	145	THR	CA-C	6.15	1.62	1.52
7	BO	145	THR	CA-C	6.15	1.62	1.52
7	D3	145	THR	CA-C	6.12	1.61	1.52
7	DO	145	THR	CA-C	6.12	1.61	1.52
7	H3	145	THR	CA-C	6.11	1.61	1.52
7	HO	145	THR	CA-C	6.11	1.61	1.52
7	B3	172	VAL	CA-C	5.94	1.60	1.52
7	BO	172	VAL	CA-C	5.94	1.60	1.52
7	L3	176	ILE	CA-C	5.78	1.60	1.52
7	LO	176	ILE	CA-C	5.78	1.60	1.52
7	D3	176	ILE	CA-C	5.78	1.60	1.52
7	DO	176	ILE	CA-C	5.78	1.60	1.52
7	B3	176	ILE	CA-C	5.74	1.60	1.52
7	BO	176	ILE	CA-C	5.74	1.60	1.52
4	MF	116	GLU	CA-C	5.68	1.60	1.52
4	MI	116	GLU	CA-C	5.68	1.60	1.52
10	d4	94	ALA	CA-C	-5.63	1.43	1.52
6	J5	4	VAL	CB-CG2	-5.62	1.34	1.52
6	J8	4	VAL	CB-CG2	-5.62	1.34	1.52
10	dD	94	ALA	CA-C	-5.58	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A3	141	PRO	N-CD	-5.32	1.40	1.47
6	AO	141	PRO	N-CD	-5.32	1.40	1.47
6	fF	52	VAL	CA-C	5.30	1.58	1.52
6	fI	52	VAL	CA-C	5.30	1.58	1.52
7	C5	37	ARG	C-N	5.23	1.40	1.33
7	cF	69	PRO	N-CD	-5.21	1.40	1.47
7	cI	69	PRO	N-CD	-5.21	1.40	1.47
6	I3	42	GLU	CA-C	5.21	1.60	1.52
6	IO	42	GLU	CA-C	5.21	1.60	1.52
7	C8	37	ARG	C-N	5.18	1.40	1.33
6	ZF	150	VAL	CA-C	5.07	1.59	1.52
6	ZI	150	VAL	CA-C	5.07	1.59	1.52
6	ZF	141	PRO	N-CD	-5.01	1.40	1.47
6	ZI	141	PRO	N-CD	-5.01	1.40	1.47

All (1191) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	a7	88	ILE	N-CA-C	-12.11	98.49	110.72
7	a9	88	ILE	N-CA-C	-12.11	98.49	110.72
6	UR	143	ASP	N-CA-C	11.65	123.72	111.14
7	I4	59	MET	CG-SD-CE	-11.17	76.33	100.90
7	K4	59	MET	CG-SD-CE	-11.17	76.34	100.90
7	G4	59	MET	CG-SD-CE	-11.16	76.35	100.90
7	ED	59	MET	CG-SD-CE	-11.16	76.34	100.90
7	GD	59	MET	CG-SD-CE	-11.15	76.36	100.90
7	KD	59	MET	CG-SD-CE	-11.15	76.36	100.90
7	CD	59	MET	CG-SD-CE	-11.15	76.36	100.90
7	ID	59	MET	CG-SD-CE	-11.15	76.36	100.90
7	C4	59	MET	CG-SD-CE	-11.15	76.38	100.90
7	M4	59	MET	CG-SD-CE	-11.14	76.38	100.90
7	MD	59	MET	CG-SD-CE	-11.13	76.41	100.90
15	bB	347	ALA	N-CA-C	10.66	122.97	111.36
6	K3	58	ALA	N-CA-C	10.47	122.70	111.28
6	KO	58	ALA	N-CA-C	10.47	122.70	111.28
6	fF	51	VAL	N-CA-C	10.47	121.30	110.62
6	fI	51	VAL	N-CA-C	10.47	121.30	110.62
6	OR	143	ASP	N-CA-C	10.24	122.53	111.36
6	K3	42	GLU	N-CA-C	10.15	125.47	113.18
6	KO	42	GLU	N-CA-C	10.15	125.47	113.18
6	C3	42	GLU	N-CA-C	9.91	125.20	113.20
6	CO	42	GLU	N-CA-C	9.91	125.20	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	MF	117	GLU	N-CA-C	9.76	123.14	111.33
4	MI	117	GLU	N-CA-C	9.76	123.14	111.33
5	JF	150	ILE	N-CA-C	9.75	121.18	108.12
5	JI	150	ILE	N-CA-C	9.75	121.18	108.12
6	UF	48	HIS	N-CA-C	9.59	124.38	112.87
6	UI	48	HIS	N-CA-C	9.59	124.38	112.87
6	OF	48	HIS	N-CA-C	9.58	124.37	112.87
6	OI	48	HIS	N-CA-C	9.58	124.37	112.87
6	WF	48	HIS	N-CA-C	9.58	124.36	112.87
6	WI	48	HIS	N-CA-C	9.58	124.36	112.87
6	bF	48	HIS	N-CA-C	9.57	124.36	112.87
6	bI	48	HIS	N-CA-C	9.57	124.36	112.87
6	dF	48	HIS	N-CA-C	9.57	124.35	112.87
6	dI	48	HIS	N-CA-C	9.57	124.35	112.87
6	lF	48	HIS	N-CA-C	9.57	124.35	112.87
6	lI	48	HIS	N-CA-C	9.57	124.35	112.87
6	SF	48	HIS	N-CA-C	9.56	124.35	112.87
6	hF	48	HIS	N-CA-C	9.56	124.35	112.87
6	SI	48	HIS	N-CA-C	9.56	124.35	112.87
6	hI	48	HIS	N-CA-C	9.56	124.35	112.87
6	ZI	151	GLU	N-CA-C	9.56	122.70	111.71
6	QF	48	HIS	N-CA-C	9.54	124.32	112.87
6	QI	48	HIS	N-CA-C	9.54	124.32	112.87
6	fF	48	HIS	N-CA-C	9.53	124.31	112.87
6	fI	48	HIS	N-CA-C	9.53	124.31	112.87
15	bM	346	ILE	N-CA-C	9.49	121.45	108.17
6	bF	140	VAL	N-CA-C	9.47	123.72	112.35
6	bI	140	VAL	N-CA-C	9.47	123.72	112.35
6	OF	140	VAL	N-CA-C	9.47	123.71	112.35
6	OI	140	VAL	N-CA-C	9.47	123.71	112.35
6	I3	42	GLU	N-CA-C	9.46	124.89	113.16
6	IO	42	GLU	N-CA-C	9.46	124.89	113.16
6	AA	139	CYS	CA-C-N	9.44	126.18	120.24
6	AA	139	CYS	C-N-CA	9.44	126.18	120.24
6	AN	139	CYS	CA-C-N	9.44	126.18	120.24
6	AN	139	CYS	C-N-CA	9.44	126.18	120.24
7	K8	108	ARG	N-CA-C	9.41	121.62	111.36
6	EA	139	CYS	CA-C-N	9.40	126.16	120.24
6	EA	139	CYS	C-N-CA	9.40	126.16	120.24
6	EN	139	CYS	CA-C-N	9.40	126.16	120.24
6	EN	139	CYS	C-N-CA	9.40	126.16	120.24
6	CA	139	CYS	CA-C-N	9.36	126.14	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	CA	139	CYS	C-N-CA	9.36	126.14	120.24
6	CN	139	CYS	CA-C-N	9.36	126.14	120.24
6	CN	139	CYS	C-N-CA	9.36	126.14	120.24
7	V2	60	ILE	N-CA-C	9.34	120.15	110.62
6	IA	139	CYS	CA-C-N	9.33	126.12	120.24
6	IA	139	CYS	C-N-CA	9.33	126.12	120.24
6	IN	139	CYS	CA-C-N	9.33	126.12	120.24
6	IN	139	CYS	C-N-CA	9.33	126.12	120.24
7	VR	60	ILE	N-CA-C	9.32	120.12	110.62
6	KA	139	CYS	CA-C-N	9.31	126.11	120.24
6	KA	139	CYS	C-N-CA	9.31	126.11	120.24
6	KN	139	CYS	CA-C-N	9.31	126.11	120.24
6	KN	139	CYS	C-N-CA	9.31	126.11	120.24
6	GA	139	CYS	CA-C-N	9.30	126.10	120.24
6	GA	139	CYS	C-N-CA	9.30	126.10	120.24
6	GN	139	CYS	CA-C-N	9.30	126.10	120.24
6	GN	139	CYS	C-N-CA	9.30	126.10	120.24
16	AB	146	PRO	CA-N-CD	-9.26	99.03	112.00
16	AM	146	PRO	CA-N-CD	-9.26	99.04	112.00
16	wJ	146	PRO	CA-N-CD	-9.23	99.08	112.00
6	lF	51	VAL	N-CA-C	9.22	120.03	110.62
6	lI	51	VAL	N-CA-C	9.22	120.03	110.62
16	wL	146	PRO	CA-N-CD	-9.22	99.09	112.00
16	xL	146	PRO	CA-N-CD	-9.22	99.09	112.00
18	ME	309	PRO	CA-N-CD	-9.21	99.10	112.00
16	xJ	146	PRO	CA-N-CD	-9.20	99.11	112.00
18	MC	309	PRO	CA-N-CD	-9.20	99.13	112.00
6	SR	98	VAL	N-CA-C	-9.18	102.91	111.45
6	S2	98	VAL	N-CA-C	-9.15	102.94	111.45
7	XR	108	ARG	N-CA-C	9.09	121.27	111.36
16	xL	105	ARG	CA-CB-CG	9.05	132.21	114.10
16	xJ	105	ARG	CA-CB-CG	9.05	132.20	114.10
16	wL	105	ARG	CA-CB-CG	9.04	132.17	114.10
6	M2	142	ARG	CB-CG-CD	9.03	132.07	111.30
6	SR	142	ARG	CB-CG-CD	9.03	132.06	111.30
16	wJ	105	ARG	CA-CB-CG	9.02	132.15	114.10
6	fF	53	LYS	N-CA-C	-9.00	101.42	111.14
6	fI	53	LYS	N-CA-C	-9.00	101.42	111.14
7	C8	37	ARG	O-C-N	-8.97	108.06	122.41
7	C5	37	ARG	O-C-N	-8.96	108.08	122.41
7	X2	108	ARG	N-CA-C	8.87	121.03	111.36
6	A3	141	PRO	N-CA-C	8.77	125.16	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AO	141	PRO	N-CA-C	8.77	125.16	113.40
5	L7	107	ASP	N-CA-C	8.70	120.84	111.36
5	L9	107	ASP	N-CA-C	8.68	120.82	111.36
6	E3	42	GLU	N-CA-C	8.67	123.69	113.20
6	EO	42	GLU	N-CA-C	8.67	123.69	113.20
25	YP	512	GLU	N-CA-C	8.61	120.74	111.36
6	E3	23	ASP	N-CA-C	8.60	120.65	111.28
6	EO	23	ASP	N-CA-C	8.60	120.65	111.28
16	xL	105	ARG	CB-CG-CD	8.52	130.90	111.30
16	xJ	105	ARG	CB-CG-CD	8.49	130.82	111.30
16	wL	105	ARG	CB-CG-CD	8.48	130.81	111.30
16	wJ	105	ARG	CB-CG-CD	8.48	130.80	111.30
6	SR	142	ARG	CG-CD-NE	8.46	130.62	112.00
6	M2	142	ARG	CG-CD-NE	8.42	130.53	112.00
6	AQ	2	LYS	N-CA-C	8.33	123.16	112.92
7	D3	146	ALA	N-CA-C	-8.31	96.54	109.25
7	DO	146	ALA	N-CA-C	-8.31	96.54	109.25
7	H3	146	ALA	N-CA-C	-8.30	96.54	109.25
7	HO	146	ALA	N-CA-C	-8.30	96.54	109.25
7	B3	146	ALA	N-CA-C	-8.28	96.58	109.25
7	BO	146	ALA	N-CA-C	-8.28	96.58	109.25
6	K3	92	LEU	N-CA-C	8.25	120.28	111.28
6	KO	92	LEU	N-CA-C	8.25	120.28	111.28
6	G3	42	GLU	N-CA-C	8.22	123.13	113.18
6	GO	42	GLU	N-CA-C	8.22	123.13	113.18
6	OR	142	ARG	N-CA-C	8.21	120.01	111.14
6	OF	141	PRO	N-CA-C	8.21	124.33	113.57
6	OI	141	PRO	N-CA-C	8.21	124.33	113.57
5	L1	33	GLU	CA-CB-CG	8.19	130.49	114.10
5	LK	33	GLU	CA-CB-CG	8.19	130.49	114.10
5	N1	33	GLU	CA-CB-CG	8.19	130.48	114.10
5	NK	33	GLU	CA-CB-CG	8.18	130.45	114.10
4	MF	116	GLU	CA-CB-CG	8.17	130.44	114.10
4	MI	116	GLU	CA-CB-CG	8.17	130.44	114.10
6	bF	141	PRO	N-CA-C	8.17	124.27	113.57
6	bI	141	PRO	N-CA-C	8.17	124.27	113.57
5	F1	33	GLU	CA-CB-CG	8.16	130.43	114.10
4	KI	116	GLU	CA-CB-CG	8.16	130.43	114.10
5	FK	33	GLU	CA-CB-CG	8.16	130.43	114.10
4	GF	116	GLU	CA-CB-CG	8.16	130.42	114.10
4	GI	116	GLU	CA-CB-CG	8.16	130.42	114.10
4	KF	116	GLU	CA-CB-CG	8.16	130.42	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	J1	33	GLU	CA-CB-CG	8.16	130.41	114.10
5	JK	33	GLU	CA-CB-CG	8.16	130.41	114.10
7	X2	26	ALA	N-CA-C	8.15	121.19	111.33
4	CF	116	GLU	CA-CB-CG	8.15	130.40	114.10
4	EF	116	GLU	CA-CB-CG	8.15	130.39	114.10
4	CI	116	GLU	CA-CB-CG	8.15	130.40	114.10
4	EI	116	GLU	CA-CB-CG	8.15	130.39	114.10
4	IF	116	GLU	CA-CB-CG	8.14	130.39	114.10
4	II	116	GLU	CA-CB-CG	8.14	130.39	114.10
7	XR	26	ALA	N-CA-C	8.13	121.17	111.33
6	Q2	68	ASN	CA-C-N	8.06	128.12	119.90
6	Q2	68	ASN	C-N-CA	8.06	128.12	119.90
6	G3	23	ASP	N-CA-C	8.06	120.06	111.28
6	GO	23	ASP	N-CA-C	8.06	120.06	111.28
6	I3	23	ASP	N-CA-C	8.02	120.02	111.28
6	IO	23	ASP	N-CA-C	8.02	120.02	111.28
7	M3	80	ALA	N-CA-C	8.01	120.01	111.28
7	MO	80	ALA	N-CA-C	8.01	120.01	111.28
6	I3	41	ALA	N-CA-C	8.00	119.62	111.07
6	IO	41	ALA	N-CA-C	8.00	119.62	111.07
7	aF	107	ASP	N-CA-CB	-7.98	99.58	110.67
7	aI	107	ASP	N-CA-CB	-7.98	99.58	110.67
5	L9	115	GLU	CA-CB-CG	7.90	129.90	114.10
5	L7	115	GLU	CA-CB-CG	7.89	129.88	114.10
5	J9	115	GLU	CA-CB-CG	7.88	129.86	114.10
5	D7	115	GLU	CA-CB-CG	7.88	129.86	114.10
5	D9	115	GLU	CA-CB-CG	7.88	129.86	114.10
5	H7	115	GLU	CA-CB-CG	7.88	129.85	114.10
5	H9	115	GLU	CA-CB-CG	7.88	129.85	114.10
7	I5	6	SER	N-CA-C	7.87	119.86	111.28
5	J7	115	GLU	CA-CB-CG	7.87	129.85	114.10
5	N7	115	GLU	CA-CB-CG	7.87	129.84	114.10
5	N9	115	GLU	CA-CB-CG	7.87	129.84	114.10
6	IA	39	GLU	N-CA-C	7.87	119.86	111.28
6	IN	39	GLU	N-CA-C	7.87	119.86	111.28
8	e2	146	ARG	N-CA-C	7.83	119.89	111.36
7	kF	130	ALA	N-CA-C	7.82	119.80	111.28
7	kI	130	ALA	N-CA-C	7.82	119.80	111.28
7	eF	130	ALA	N-CA-C	7.80	119.78	111.28
7	eI	130	ALA	N-CA-C	7.80	119.78	111.28
6	lF	53	LYS	N-CA-C	-7.78	102.73	111.14
6	II	53	LYS	N-CA-C	-7.78	102.73	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X7	74	PHE	CA-C-N	7.78	133.44	121.53
1	X7	74	PHE	C-N-CA	7.78	133.44	121.53
1	X9	74	PHE	CA-C-N	7.78	133.44	121.53
1	X9	74	PHE	C-N-CA	7.78	133.44	121.53
6	LD	114	ARG	CA-CB-CG	-7.76	98.57	114.10
16	xJ	86	CYS	CA-CB-SG	7.76	132.26	114.40
16	wL	86	CYS	CA-CB-SG	7.76	132.24	114.40
16	wJ	86	CYS	CA-CB-SG	7.76	132.24	114.40
6	S2	143	ASP	N-CA-C	7.75	119.81	111.36
16	xL	86	CYS	CA-CB-SG	7.75	132.23	114.40
6	S2	96	CYS	N-CA-C	7.74	119.72	111.28
6	SR	96	CYS	N-CA-C	7.74	119.72	111.28
6	L4	114	ARG	CA-CB-CG	-7.74	98.63	114.10
7	H3	105	LEU	N-CA-C	-7.73	103.67	113.72
7	HO	105	LEU	N-CA-C	-7.73	103.67	113.72
7	A5	34	GLY	N-CA-C	7.68	121.95	112.73
7	D3	175	ALA	N-CA-C	7.67	121.89	112.54
7	DO	175	ALA	N-CA-C	7.67	121.89	112.54
7	L3	175	ALA	N-CA-C	7.66	121.88	112.54
7	LO	175	ALA	N-CA-C	7.66	121.88	112.54
7	A8	34	GLY	N-CA-C	7.64	121.90	112.73
7	B3	175	ALA	N-CA-C	7.64	121.86	112.54
7	BO	175	ALA	N-CA-C	7.64	121.86	112.54
7	M3	62	GLU	N-CA-C	7.62	119.23	111.07
7	MO	62	GLU	N-CA-C	7.62	119.23	111.07
7	C5	37	ARG	CA-C-N	7.60	136.32	122.79
7	C5	37	ARG	C-N-CA	7.60	136.32	122.79
7	C8	37	ARG	CA-C-N	7.60	136.31	122.79
7	C8	37	ARG	C-N-CA	7.60	136.31	122.79
6	dF	43	LYS	N-CA-C	-7.56	103.12	111.36
6	dI	43	LYS	N-CA-C	-7.56	103.12	111.36
7	M3	63	ASN	N-CA-CB	-7.55	99.26	110.88
7	MO	63	ASN	N-CA-CB	-7.55	99.26	110.88
7	H3	107	ASP	N-CA-CB	-7.53	98.64	110.46
7	HO	107	ASP	N-CA-CB	-7.53	98.64	110.46
7	B3	176	ILE	CB-CA-C	-7.51	102.31	111.85
7	L3	176	ILE	CB-CA-C	-7.51	102.31	111.85
7	BO	176	ILE	CB-CA-C	-7.51	102.31	111.85
7	LO	176	ILE	CB-CA-C	-7.51	102.31	111.85
5	JF	137	ALA	N-CA-C	7.51	119.46	111.28
5	JI	137	ALA	N-CA-C	7.51	119.46	111.28
7	D3	176	ILE	CB-CA-C	-7.50	102.33	111.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	DO	176	ILE	CB-CA-C	-7.50	102.33	111.85
5	NF	137	ALA	N-CA-C	7.46	119.41	111.28
5	NI	137	ALA	N-CA-C	7.46	119.41	111.28
4	MF	108	ASP	N-CA-C	7.44	119.47	111.36
4	MI	108	ASP	N-CA-C	7.44	119.47	111.36
3	B7	188	PHE	N-CA-C	7.44	122.53	113.38
6	UR	142	ARG	N-CA-C	7.42	120.45	111.40
5	NF	26	ALA	N-CA-C	7.38	120.19	111.71
5	NI	26	ALA	N-CA-C	7.38	120.19	111.71
6	WR	43	LYS	N-CA-C	7.36	119.30	111.28
6	W2	43	LYS	N-CA-C	7.32	119.26	111.28
6	SF	50	ALA	N-CA-C	-7.32	103.97	113.12
6	SI	50	ALA	N-CA-C	-7.32	103.97	113.12
6	QF	50	ALA	N-CA-C	-7.30	103.99	113.12
6	QI	50	ALA	N-CA-C	-7.30	103.99	113.12
7	cF	130	ALA	N-CA-C	7.30	119.23	111.28
7	cI	130	ALA	N-CA-C	7.30	119.23	111.28
6	WF	51	VAL	N-CA-C	7.26	118.05	110.72
6	WI	51	VAL	N-CA-C	7.26	118.05	110.72
6	O2	140	VAL	CB-CA-C	-7.25	106.66	114.35
6	E3	25	GLU	N-CA-C	-7.20	103.16	112.23
6	EO	25	GLU	N-CA-C	-7.20	103.16	112.23
7	aF	84	ARG	CD-NE-CZ	7.20	134.47	124.40
7	aI	84	ARG	CD-NE-CZ	7.20	134.47	124.40
7	iF	84	ARG	CD-NE-CZ	7.19	134.47	124.40
7	iI	84	ARG	CD-NE-CZ	7.19	134.47	124.40
6	SF	51	VAL	N-CA-C	7.19	117.32	110.42
7	kF	84	ARG	CD-NE-CZ	7.19	134.46	124.40
6	SI	51	VAL	N-CA-C	7.19	117.32	110.42
7	kI	84	ARG	CD-NE-CZ	7.19	134.46	124.40
7	eF	84	ARG	CD-NE-CZ	7.18	134.46	124.40
7	eI	84	ARG	CD-NE-CZ	7.18	134.46	124.40
18	ME	64	GLU	CA-C-N	-7.17	110.82	120.79
18	ME	64	GLU	C-N-CA	-7.17	110.82	120.79
14	MA	145	CYS	CA-CB-SG	7.17	130.90	114.40
7	gF	84	ARG	CD-NE-CZ	7.16	134.43	124.40
7	mF	84	ARG	CD-NE-CZ	7.16	134.43	124.40
7	gI	84	ARG	CD-NE-CZ	7.16	134.43	124.40
7	mI	84	ARG	CD-NE-CZ	7.16	134.43	124.40
14	MN	145	CYS	CA-CB-SG	7.16	130.87	114.40
5	JF	151	GLY	N-CA-C	7.16	121.57	111.19
5	JI	151	GLY	N-CA-C	7.16	121.57	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	PF	84	ARG	CD-NE-CZ	7.15	134.42	124.40
7	PI	84	ARG	CD-NE-CZ	7.15	134.42	124.40
15	bB	348	GLN	N-CA-C	7.15	120.60	110.23
7	VF	84	ARG	CD-NE-CZ	7.15	134.41	124.40
7	cF	84	ARG	CD-NE-CZ	7.15	134.41	124.40
7	VI	84	ARG	CD-NE-CZ	7.15	134.41	124.40
7	cI	84	ARG	CD-NE-CZ	7.15	134.41	124.40
7	RF	84	ARG	CD-NE-CZ	7.14	134.40	124.40
7	RI	84	ARG	CD-NE-CZ	7.14	134.40	124.40
18	MC	64	GLU	CA-C-N	-7.14	110.87	120.79
18	MC	64	GLU	C-N-CA	-7.14	110.87	120.79
7	YF	84	ARG	CD-NE-CZ	7.13	134.38	124.40
7	YI	84	ARG	CD-NE-CZ	7.13	134.38	124.40
6	OF	141	PRO	N-CA-CB	-7.08	96.02	103.52
6	OI	141	PRO	N-CA-CB	-7.08	96.02	103.52
6	bF	141	PRO	N-CA-CB	-7.06	96.03	103.52
6	bI	141	PRO	N-CA-CB	-7.06	96.03	103.52
7	K5	76	ASN	N-CA-C	7.06	119.06	111.36
7	K8	76	ASN	N-CA-C	7.06	119.06	111.36
7	V2	62	GLU	N-CA-CB	7.02	120.88	110.49
7	VR	62	GLU	N-CA-CB	7.02	120.88	110.49
28	bP	225	ARG	N-CA-C	6.99	118.98	111.36
15	bB	345	GLY	N-CA-C	6.99	122.39	113.24
6	fF	53	LYS	N-CA-CB	6.98	120.19	110.07
6	fI	53	LYS	N-CA-CB	6.98	120.19	110.07
6	AG	98	VAL	CA-CB-CG2	6.97	122.25	110.40
6	AQ	98	VAL	CA-CB-CG2	6.97	122.25	110.40
6	K3	94	ASN	N-CA-C	-6.97	103.77	111.36
6	KO	94	ASN	N-CA-C	-6.97	103.77	111.36
6	K3	44	LEU	N-CA-CB	6.96	120.57	110.20
6	KO	44	LEU	N-CA-CB	6.96	120.57	110.20
6	EG	98	VAL	CA-CB-CG2	6.95	122.22	110.40
6	EQ	98	VAL	CA-CB-CG2	6.95	122.22	110.40
7	K5	32	ALA	CA-C-N	-6.95	110.25	122.62
7	K5	32	ALA	C-N-CA	-6.95	110.25	122.62
7	K8	32	ALA	CA-C-N	-6.95	110.25	122.62
7	K8	32	ALA	C-N-CA	-6.95	110.25	122.62
6	A3	141	PRO	N-CA-CB	-6.95	95.66	103.44
6	IG	98	VAL	CA-CB-CG2	6.95	122.21	110.40
6	AO	141	PRO	N-CA-CB	-6.95	95.66	103.44
6	IQ	98	VAL	CA-CB-CG2	6.95	122.21	110.40
6	GG	98	VAL	CA-CB-CG2	6.95	122.21	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	GQ	98	VAL	CA-CB-CG2	6.95	122.21	110.40
6	CG	98	VAL	CA-CB-CG2	6.94	122.20	110.40
6	CQ	98	VAL	CA-CB-CG2	6.94	122.20	110.40
6	KG	98	VAL	CA-CB-CG2	6.94	122.20	110.40
6	KQ	98	VAL	CA-CB-CG2	6.94	122.20	110.40
6	A3	140	VAL	N-CA-C	6.93	121.34	112.67
7	eF	132	SER	N-CA-C	-6.93	103.80	111.36
7	eI	132	SER	N-CA-C	-6.93	103.80	111.36
6	AO	140	VAL	N-CA-C	6.93	121.34	112.67
7	D3	144	ASN	CB-CA-C	-6.93	101.68	111.80
7	DO	144	ASN	CB-CA-C	-6.93	101.68	111.80
7	B3	144	ASN	CB-CA-C	-6.90	101.73	111.80
7	BO	144	ASN	CB-CA-C	-6.90	101.73	111.80
6	C3	23	ASP	N-CA-C	6.88	118.78	111.28
6	CO	23	ASP	N-CA-C	6.88	118.78	111.28
6	QR	142	ARG	N-CA-C	6.88	118.86	111.36
6	dF	41	ALA	N-CA-C	6.86	118.41	111.07
6	dI	41	ALA	N-CA-C	6.86	118.41	111.07
7	B3	176	ILE	CA-C-O	6.85	126.69	119.91
7	BO	176	ILE	CA-C-O	6.85	126.69	119.91
7	H3	144	ASN	CB-CA-C	-6.85	101.80	111.80
7	HO	144	ASN	CB-CA-C	-6.85	101.80	111.80
10	d4	54	VAL	N-CA-C	-6.84	104.94	112.80
7	a7	85	ASP	N-CA-C	-6.84	103.83	111.28
7	a9	85	ASP	N-CA-C	-6.84	103.83	111.28
7	D3	176	ILE	CA-C-O	6.83	126.67	119.91
7	DO	176	ILE	CA-C-O	6.83	126.67	119.91
6	OF	141	PRO	N-CD-CG	-6.83	92.95	103.20
6	OI	141	PRO	N-CD-CG	-6.83	92.95	103.20
7	E4	63	ASN	CA-C-N	6.81	126.50	119.82
7	E4	63	ASN	C-N-CA	6.81	126.50	119.82
5	N1	77	ARG	NE-CZ-NH2	6.80	125.32	119.20
7	L3	176	ILE	CA-C-O	6.80	126.64	119.91
10	dD	54	VAL	N-CA-C	-6.80	104.98	112.80
7	LO	176	ILE	CA-C-O	6.80	126.64	119.91
6	bF	141	PRO	N-CD-CG	-6.80	93.00	103.20
6	dF	51	VAL	N-CA-C	6.80	119.59	111.09
6	bI	141	PRO	N-CD-CG	-6.80	93.00	103.20
6	dI	51	VAL	N-CA-C	6.80	119.59	111.09
18	ME	306	LYS	CA-C-N	6.79	128.32	119.84
18	ME	306	LYS	C-N-CA	6.79	128.32	119.84
5	NK	77	ARG	NE-CZ-NH2	6.79	125.31	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D1	77	ARG	NE-CZ-NH2	6.78	125.30	119.20
18	MC	306	LYS	CA-C-N	6.77	128.31	119.84
18	MC	306	LYS	C-N-CA	6.77	128.31	119.84
5	DK	77	ARG	NE-CZ-NH2	6.76	125.29	119.20
7	A8	76	ASN	N-CA-C	6.76	125.20	110.80
6	K3	44	LEU	N-CA-C	-6.76	103.38	111.69
6	KO	44	LEU	N-CA-C	-6.76	103.38	111.69
5	J1	77	ARG	NE-CZ-NH2	6.75	125.28	119.20
5	JK	77	ARG	NE-CZ-NH2	6.75	125.28	119.20
27	3P	264	LYS	N-CA-C	6.75	120.98	111.52
7	A5	76	ASN	N-CA-C	6.75	125.18	110.80
14	MN	99	GLY	CA-C-N	-6.75	112.03	122.49
14	MN	99	GLY	C-N-CA	-6.75	112.03	122.49
5	L1	77	ARG	NE-CZ-NH2	6.75	125.27	119.20
5	LK	77	ARG	NE-CZ-NH2	6.75	125.27	119.20
7	kF	132	SER	N-CA-C	-6.74	104.01	111.36
7	kI	132	SER	N-CA-C	-6.74	104.01	111.36
5	H1	77	ARG	NE-CZ-NH2	6.73	125.26	119.20
6	lF	40	ALA	N-CA-C	6.72	118.61	111.28
6	lI	40	ALA	N-CA-C	6.72	118.61	111.28
18	MC	50	GLU	N-CA-C	-6.72	99.88	109.62
5	F1	77	ARG	NE-CZ-NH2	6.72	125.25	119.20
5	FK	77	ARG	NE-CZ-NH2	6.72	125.25	119.20
6	F4	34	SER	N-CA-C	6.72	118.60	111.28
27	aP	264	LYS	N-CA-C	6.72	120.92	111.52
6	WR	140	VAL	N-CA-C	6.71	122.34	112.61
6	I3	25	GLU	N-CA-C	-6.71	103.78	112.23
5	HK	77	ARG	NE-CZ-NH2	6.71	125.24	119.20
6	IO	25	GLU	N-CA-C	-6.71	103.78	112.23
18	ME	50	GLU	N-CA-C	-6.71	99.90	109.62
6	G3	25	GLU	N-CA-C	-6.70	103.78	112.23
6	GO	25	GLU	N-CA-C	-6.70	103.78	112.23
7	aF	105	LEU	N-CA-C	-6.68	104.34	113.30
7	aI	105	LEU	N-CA-C	-6.68	104.34	113.30
6	W2	48	HIS	N-CA-C	6.68	118.56	111.28
6	U2	140	VAL	N-CA-C	6.67	120.35	112.35
18	ME	144	ARG	N-CA-C	6.67	125.01	110.80
4	MF	116	GLU	N-CA-C	6.65	118.53	111.28
4	MI	116	GLU	N-CA-C	6.65	118.53	111.28
7	CD	171	ARG	CG-CD-NE	6.64	126.61	112.00
8	e2	284	ASN	CA-C-N	6.64	126.42	119.05
8	e2	284	ASN	C-N-CA	6.64	126.42	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	ME	196	ASP	N-CA-C	-6.64	105.72	113.88
6	dF	53	LYS	N-CA-C	-6.64	103.97	111.14
6	dI	53	LYS	N-CA-C	-6.64	103.97	111.14
7	M4	59	MET	CA-CB-CG	-6.64	100.83	114.10
18	MC	196	ASP	N-CA-C	-6.63	105.72	113.88
7	GD	171	ARG	CG-CD-NE	6.63	126.59	112.00
7	C4	171	ARG	CG-CD-NE	6.63	126.58	112.00
7	ED	59	MET	CA-CB-CG	-6.63	100.85	114.10
7	GD	59	MET	CA-CB-CG	-6.63	100.85	114.10
7	ED	171	ARG	CG-CD-NE	6.62	126.57	112.00
7	MD	59	MET	CA-CB-CG	-6.62	100.86	114.10
7	K4	171	ARG	CG-CD-NE	6.62	126.56	112.00
7	C4	59	MET	CA-CB-CG	-6.62	100.86	114.10
7	K4	59	MET	CA-CB-CG	-6.62	100.86	114.10
7	E4	171	ARG	CG-CD-NE	6.62	126.56	112.00
6	I3	42	GLU	CB-CA-C	-6.61	98.11	110.01
7	G4	171	ARG	CG-CD-NE	6.61	126.55	112.00
6	IO	42	GLU	CB-CA-C	-6.61	98.11	110.01
7	I4	171	ARG	CG-CD-NE	6.61	126.55	112.00
7	KD	59	MET	CA-CB-CG	-6.61	100.88	114.10
7	MD	171	ARG	CG-CD-NE	6.61	126.55	112.00
7	M4	171	ARG	CG-CD-NE	6.61	126.54	112.00
7	KD	171	ARG	CG-CD-NE	6.61	126.54	112.00
9	O3	258	ILE	CA-C-N	6.61	136.65	125.02
9	O3	258	ILE	C-N-CA	6.61	136.65	125.02
9	OO	258	ILE	CA-C-N	6.61	136.65	125.02
9	OO	258	ILE	C-N-CA	6.61	136.65	125.02
7	G4	59	MET	CA-CB-CG	-6.61	100.89	114.10
7	CD	59	MET	CA-CB-CG	-6.60	100.90	114.10
7	ID	171	ARG	CG-CD-NE	6.60	126.52	112.00
6	O2	140	VAL	N-CA-C	6.60	122.18	112.61
18	ME	236	ASP	N-CA-C	6.59	118.47	111.28
7	I4	59	MET	CA-CB-CG	-6.59	100.91	114.10
1	XF	287	GLY	CA-C-N	6.59	124.39	120.24
1	XF	287	GLY	C-N-CA	6.59	124.39	120.24
1	XI	287	GLY	CA-C-N	6.59	124.39	120.24
1	XI	287	GLY	C-N-CA	6.59	124.39	120.24
7	ID	59	MET	CA-CB-CG	-6.59	100.92	114.10
7	NR	84	ARG	CB-CA-C	-6.55	100.88	110.96
7	X2	84	ARG	CB-CA-C	-6.54	100.89	110.96
7	G4	76	ASN	N-CA-C	6.54	118.41	111.28
7	XR	84	ARG	CB-CA-C	-6.54	100.89	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	N2	84	ARG	CB-CA-C	-6.53	100.90	110.96
7	CD	51	MET	CA-CB-CG	-6.53	101.04	114.10
7	R2	84	ARG	CB-CA-C	-6.53	100.91	110.96
6	U2	163	LEU	O-C-N	-6.52	113.92	122.59
7	iF	55	ALA	N-CA-C	6.52	118.05	111.07
7	iI	55	ALA	N-CA-C	6.52	118.05	111.07
7	mF	55	ALA	N-CA-C	6.52	118.04	111.07
7	mI	55	ALA	N-CA-C	6.52	118.04	111.07
7	H3	145	THR	CA-C-O	6.51	128.88	121.32
7	HO	145	THR	CA-C-O	6.51	128.88	121.32
7	M3	169	PHE	N-CA-C	6.51	119.20	111.71
7	MO	169	PHE	N-CA-C	6.51	119.20	111.71
6	UR	163	LEU	O-C-N	-6.51	113.93	122.59
7	I4	51	MET	CA-CB-CG	-6.50	101.11	114.10
7	C4	51	MET	CA-CB-CG	-6.49	101.12	114.10
7	RR	84	ARG	CB-CA-C	-6.49	100.97	110.96
7	ID	51	MET	CA-CB-CG	-6.48	101.13	114.10
7	E4	51	MET	CA-CB-CG	-6.48	101.14	114.10
6	E3	25	GLU	N-CA-CB	6.47	120.26	110.30
7	K4	51	MET	CA-CB-CG	-6.47	101.16	114.10
6	EO	25	GLU	N-CA-CB	6.47	120.26	110.30
6	WR	139	CYS	N-CA-C	-6.47	98.36	108.90
7	D3	145	THR	CA-C-O	6.47	128.82	121.32
7	G4	51	MET	CA-CB-CG	-6.47	101.17	114.10
7	DO	145	THR	CA-C-O	6.47	128.82	121.32
7	ED	51	MET	CA-CB-CG	-6.46	101.18	114.10
6	C3	44	LEU	N-CA-CB	6.46	119.83	110.20
6	CO	44	LEU	N-CA-CB	6.46	119.83	110.20
7	B3	145	THR	CA-C-O	6.46	128.81	121.32
7	BO	145	THR	CA-C-O	6.46	128.81	121.32
7	GD	51	MET	CA-CB-CG	-6.45	101.20	114.10
22	VP	144	GLU	CA-CB-CG	6.45	127.00	114.10
7	MD	51	MET	CA-CB-CG	-6.45	101.21	114.10
7	KD	51	MET	CA-CB-CG	-6.45	101.21	114.10
6	OF	50	ALA	N-CA-C	-6.44	105.07	113.12
6	OI	50	ALA	N-CA-C	-6.44	105.07	113.12
6	A3	141	PRO	N-CD-CG	-6.43	93.55	103.20
6	AO	141	PRO	N-CD-CG	-6.43	93.55	103.20
6	MR	142	ARG	N-CA-C	6.43	118.09	111.14
22	xP	144	GLU	CA-CB-CG	6.43	126.96	114.10
6	OF	43	LYS	N-CA-C	-6.42	104.36	111.36
6	OI	43	LYS	N-CA-C	-6.42	104.36	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	fF	50	ALA	N-CA-CB	6.40	119.80	110.26
6	fI	50	ALA	N-CA-CB	6.40	119.80	110.26
6	dF	50	ALA	N-CA-CB	6.40	119.80	110.26
6	dI	50	ALA	N-CA-CB	6.40	119.80	110.26
7	NO	80	ALA	N-CA-C	6.40	118.25	111.28
6	lF	50	ALA	N-CA-CB	6.39	119.78	110.26
6	lI	50	ALA	N-CA-CB	6.39	119.78	110.26
1	XF	94	TYR	N-CA-C	6.38	119.66	108.56
7	eF	69	PRO	N-CA-C	6.38	121.28	110.95
7	eI	69	PRO	N-CA-C	6.38	121.28	110.95
7	TF	69	PRO	N-CA-C	6.38	121.28	110.95
7	TI	69	PRO	N-CA-C	6.38	121.28	110.95
28	4P	225	ARG	N-CA-C	6.38	118.31	111.36
7	I4	114	LYS	N-CA-C	-6.37	104.33	111.28
6	jF	48	HIS	N-CA-C	6.37	124.36	110.80
6	jI	48	HIS	N-CA-C	6.37	124.36	110.80
6	hF	50	ALA	N-CA-CB	6.37	119.75	110.26
6	hI	50	ALA	N-CA-CB	6.37	119.75	110.26
6	G3	114	ARG	N-CA-C	6.36	119.02	111.71
6	GO	114	ARG	N-CA-C	6.36	119.02	111.71
6	W2	46	GLY	N-CA-C	6.35	120.35	112.73
6	C3	44	LEU	N-CA-C	-6.35	103.88	111.69
6	CO	44	LEU	N-CA-C	-6.35	103.88	111.69
6	E3	114	ARG	N-CA-C	6.35	119.01	111.71
6	EO	114	ARG	N-CA-C	6.35	119.01	111.71
1	XI	94	TYR	N-CA-C	6.35	119.60	108.56
6	K3	114	ARG	N-CA-C	6.34	119.01	111.71
13	kH	128	ILE	CA-C-N	6.34	126.26	119.28
13	kH	128	ILE	C-N-CA	6.34	126.26	119.28
6	KO	114	ARG	N-CA-C	6.34	119.01	111.71
4	MF	101	VAL	N-CA-C	-6.34	104.67	110.82
4	MI	101	VAL	N-CA-C	-6.34	104.67	110.82
6	WF	50	ALA	N-CA-CB	6.34	119.70	110.26
6	bF	50	ALA	N-CA-CB	6.34	119.70	110.26
6	WI	50	ALA	N-CA-CB	6.34	119.70	110.26
6	bI	50	ALA	N-CA-CB	6.34	119.70	110.26
7	N3	80	ALA	N-CA-C	6.33	118.18	111.28
7	H3	107	ASP	N-CA-C	6.30	120.97	113.28
7	HO	107	ASP	N-CA-C	6.30	120.97	113.28
18	ME	143	PRO	N-CA-C	6.28	120.28	110.80
15	bM	333	ARG	N-CA-C	6.28	120.31	111.52
7	eF	132	SER	N-CA-CB	6.28	119.45	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	eI	132	SER	N-CA-CB	6.28	119.45	110.16
6	OR	33	ARG	CG-CD-NE	-6.28	98.19	112.00
6	M2	33	ARG	CG-CD-NE	-6.27	98.20	112.00
7	D3	105	LEU	N-CA-C	-6.27	105.57	113.72
7	DO	105	LEU	N-CA-C	-6.27	105.57	113.72
6	UR	33	ARG	CG-CD-NE	-6.27	98.21	112.00
6	MR	33	ARG	CG-CD-NE	-6.26	98.22	112.00
15	bM	332	MET	N-CA-C	6.26	119.33	110.50
6	Q2	33	ARG	CG-CD-NE	-6.26	98.23	112.00
6	U2	33	ARG	CG-CD-NE	-6.26	98.23	112.00
6	O2	33	ARG	CG-CD-NE	-6.25	98.25	112.00
6	QR	33	ARG	CG-CD-NE	-6.25	98.25	112.00
16	wJ	92	LYS	CB-CA-C	-6.24	100.43	110.79
6	C3	41	ALA	N-CA-C	6.24	117.74	111.07
6	CO	41	ALA	N-CA-C	6.24	117.74	111.07
6	W2	33	ARG	CG-CD-NE	-6.24	98.28	112.00
7	cF	132	SER	N-CA-C	-6.24	104.56	111.36
7	cI	132	SER	N-CA-C	-6.24	104.56	111.36
5	D7	115	GLU	CB-CG-CD	6.23	123.19	112.60
5	D9	115	GLU	CB-CG-CD	6.23	123.19	112.60
16	wL	92	LYS	CB-CA-C	-6.23	100.45	110.79
6	WR	33	ARG	CG-CD-NE	-6.23	98.30	112.00
5	H7	115	GLU	CB-CG-CD	6.22	123.18	112.60
5	H9	115	GLU	CB-CG-CD	6.22	123.18	112.60
5	J9	115	GLU	CB-CG-CD	6.22	123.17	112.60
16	xL	92	LYS	CB-CA-C	-6.22	100.47	110.79
5	J7	115	GLU	CB-CG-CD	6.22	123.17	112.60
16	xL	57	LYS	CA-CB-CG	6.21	126.53	114.10
5	N7	115	GLU	CB-CG-CD	6.21	123.16	112.60
5	N9	115	GLU	CB-CG-CD	6.21	123.16	112.60
5	L9	115	GLU	CB-CG-CD	6.20	123.15	112.60
6	E3	41	ALA	N-CA-C	6.20	117.70	111.07
6	EO	41	ALA	N-CA-C	6.20	117.70	111.07
6	OF	51	VAL	N-CA-C	6.20	116.37	110.42
6	OI	51	VAL	N-CA-C	6.20	116.37	110.42
5	L7	115	GLU	CB-CG-CD	6.20	123.13	112.60
7	V2	61	CYS	N-CA-C	6.19	119.00	111.82
7	VR	61	CYS	N-CA-C	6.19	119.00	111.82
16	xJ	57	LYS	CA-CB-CG	6.19	126.48	114.10
3	BK	226	GLN	N-CA-C	-6.19	104.61	111.36
16	wL	57	LYS	CA-CB-CG	6.19	126.47	114.10
18	MC	229	GLU	CA-C-N	6.18	131.45	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	MC	229	GLU	C-N-CA	6.18	131.45	122.36
16	wJ	57	LYS	CA-CB-CG	6.18	126.46	114.10
18	ME	229	GLU	CA-C-N	6.18	131.44	122.36
18	ME	229	GLU	C-N-CA	6.18	131.44	122.36
5	JF	150	ILE	CB-CA-C	-6.17	104.62	111.35
5	JI	150	ILE	CB-CA-C	-6.17	104.62	111.35
7	B3	25	GLN	CA-CB-CG	6.17	126.43	114.10
7	BO	25	GLN	CA-CB-CG	6.17	126.43	114.10
7	PR	84	ARG	CB-CA-C	-6.17	100.94	110.81
7	F3	146	ALA	N-CA-C	-6.17	99.82	109.25
7	FO	146	ALA	N-CA-C	-6.17	99.82	109.25
7	B3	177	SER	N-CA-CB	6.16	120.97	110.50
7	BO	177	SER	N-CA-CB	6.16	120.97	110.50
7	F3	25	GLN	CA-CB-CG	6.16	126.42	114.10
7	L3	177	SER	N-CA-CB	6.16	120.97	110.50
7	FO	25	GLN	CA-CB-CG	6.16	126.42	114.10
7	LO	177	SER	N-CA-CB	6.16	120.97	110.50
7	H3	25	GLN	CA-CB-CG	6.15	126.40	114.10
7	HO	25	GLN	CA-CB-CG	6.15	126.40	114.10
7	D3	177	SER	N-CA-CB	6.15	120.95	110.50
7	DO	177	SER	N-CA-CB	6.15	120.95	110.50
7	J3	25	GLN	CA-CB-CG	6.15	126.39	114.10
7	JO	25	GLN	CA-CB-CG	6.15	126.39	114.10
7	L3	25	GLN	CA-CB-CG	6.14	126.38	114.10
7	LO	25	GLN	CA-CB-CG	6.14	126.38	114.10
7	gF	130	ALA	N-CA-C	6.14	117.97	111.28
7	gI	130	ALA	N-CA-C	6.14	117.97	111.28
7	D3	107	ASP	N-CA-CB	-6.13	100.83	110.46
7	DO	107	ASP	N-CA-CB	-6.13	100.83	110.46
3	B1	85	LYS	CB-CG-CD	-6.13	97.20	111.30
7	D3	25	GLN	CA-CB-CG	6.13	126.36	114.10
3	BK	85	LYS	CB-CG-CD	-6.13	97.20	111.30
7	DO	25	GLN	CA-CB-CG	6.13	126.36	114.10
18	MC	230	LEU	CB-CA-C	-6.12	103.99	111.82
6	LD	113	ALA	CA-C-N	6.12	133.22	121.54
6	LD	113	ALA	C-N-CA	6.12	133.22	121.54
6	OF	50	ALA	N-CA-CB	6.11	119.77	110.42
6	OI	50	ALA	N-CA-CB	6.11	119.77	110.42
4	MF	116	GLU	CB-CG-CD	6.11	122.98	112.60
7	TF	69	PRO	N-CA-CB	-6.11	97.73	103.17
4	MI	116	GLU	CB-CG-CD	6.11	122.98	112.60
7	TI	69	PRO	N-CA-CB	-6.11	97.73	103.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	L4	113	ALA	CA-C-N	6.10	133.20	121.54
6	L4	113	ALA	C-N-CA	6.10	133.20	121.54
6	jF	50	ALA	N-CA-CB	6.10	119.76	110.42
6	jI	50	ALA	N-CA-CB	6.10	119.76	110.42
6	QF	50	ALA	N-CA-CB	6.10	119.76	110.42
6	QI	50	ALA	N-CA-CB	6.10	119.76	110.42
6	M2	142	ARG	CD-NE-CZ	-6.10	115.86	124.40
7	J3	175	ALA	N-CA-C	6.10	119.98	112.54
18	ME	230	LEU	CB-CA-C	-6.10	104.01	111.82
7	JO	175	ALA	N-CA-C	6.10	119.98	112.54
4	GF	116	GLU	CB-CG-CD	6.09	122.96	112.60
6	SF	50	ALA	N-CA-CB	6.09	119.75	110.42
4	GI	116	GLU	CB-CG-CD	6.09	122.96	112.60
6	SI	50	ALA	N-CA-CB	6.09	119.75	110.42
7	eF	69	PRO	N-CA-CB	-6.09	97.75	103.17
7	eI	69	PRO	N-CA-CB	-6.09	97.75	103.17
4	CF	116	GLU	CB-CG-CD	6.09	122.96	112.60
4	CI	116	GLU	CB-CG-CD	6.09	122.96	112.60
4	EF	116	GLU	CB-CG-CD	6.09	122.95	112.60
6	UF	50	ALA	N-CA-CB	6.09	119.74	110.42
4	EI	116	GLU	CB-CG-CD	6.09	122.95	112.60
6	UI	50	ALA	N-CA-CB	6.09	119.74	110.42
4	KI	116	GLU	CB-CG-CD	6.08	122.94	112.60
4	IF	116	GLU	CB-CG-CD	6.07	122.92	112.60
4	II	116	GLU	CB-CG-CD	6.07	122.92	112.60
4	KF	116	GLU	CB-CG-CD	6.07	122.92	112.60
7	M3	171	ARG	N-CA-C	-6.06	104.59	111.14
7	MO	171	ARG	N-CA-C	-6.06	104.59	111.14
4	KF	6	THR	N-CA-C	6.05	117.87	111.28
4	KI	6	THR	N-CA-C	6.04	117.86	111.28
7	eF	55	ALA	N-CA-C	6.03	117.53	111.07
7	eI	55	ALA	N-CA-C	6.03	117.53	111.07
6	M2	140	VAL	CB-CA-C	-6.03	107.96	114.35
6	I3	44	LEU	N-CA-C	-6.02	104.28	111.69
6	IO	44	LEU	N-CA-C	-6.02	104.28	111.69
6	SR	142	ARG	CD-NE-CZ	-6.02	115.97	124.40
6	QF	51	VAL	N-CA-C	6.01	116.19	110.42
6	QI	51	VAL	N-CA-C	6.01	116.19	110.42
6	J5	5	ILE	CA-C-N	6.01	133.01	121.54
6	J5	5	ILE	C-N-CA	6.01	133.01	121.54
6	J8	5	ILE	CA-C-N	6.01	133.01	121.54
6	J8	5	ILE	C-N-CA	6.01	133.01	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I3	25	GLU	N-CA-CB	5.99	119.52	110.30
6	IO	25	GLU	N-CA-CB	5.99	119.52	110.30
6	G3	25	GLU	N-CA-CB	5.96	119.48	110.30
6	GO	25	GLU	N-CA-CB	5.96	119.48	110.30
6	W2	142	ARG	N-CA-C	5.96	117.77	111.28
7	K8	78	ARG	N-CA-C	5.95	117.77	111.28
7	K5	78	ARG	N-CA-C	5.95	117.76	111.28
6	IF	53	LYS	N-CA-CB	5.94	118.69	110.07
6	II	53	LYS	N-CA-CB	5.94	118.69	110.07
7	X2	24	LEU	N-CA-C	-5.94	105.69	113.17
7	XR	24	LEU	N-CA-C	-5.94	105.69	113.17
6	C3	42	GLU	CB-CA-C	-5.93	98.84	110.11
6	CO	42	GLU	CB-CA-C	-5.93	98.84	110.11
6	O2	142	ARG	N-CA-C	5.92	117.82	111.36
1	X7	65	ALA	CA-C-N	5.91	132.83	121.54
1	X7	65	ALA	C-N-CA	5.91	132.83	121.54
1	X9	65	ALA	CA-C-N	5.91	132.83	121.54
1	X9	65	ALA	C-N-CA	5.91	132.83	121.54
6	E3	55	ALA	N-CA-CB	-5.90	103.15	111.00
6	EO	55	ALA	N-CA-CB	-5.90	103.15	111.00
7	a7	86	GLY	N-CA-C	-5.90	102.77	111.03
7	a9	86	GLY	N-CA-C	-5.90	102.77	111.03
6	WR	140	VAL	CB-CA-C	-5.90	108.10	114.35
7	kF	132	SER	N-CA-CB	5.89	118.88	110.16
7	kI	132	SER	N-CA-CB	5.89	118.88	110.16
6	K3	48	HIS	N-CA-C	5.89	117.70	111.28
6	KO	48	HIS	N-CA-C	5.89	117.70	111.28
7	LB	115	GLU	CA-CB-CG	5.89	125.87	114.10
7	LM	115	GLU	CA-CB-CG	5.89	125.87	114.10
7	PB	115	GLU	CA-CB-CG	5.88	125.87	114.10
7	VB	115	GLU	CA-CB-CG	5.88	125.87	114.10
7	PM	115	GLU	CA-CB-CG	5.88	125.87	114.10
7	VM	115	GLU	CA-CB-CG	5.88	125.87	114.10
7	eB	115	GLU	CA-CB-CG	5.88	125.86	114.10
7	eM	115	GLU	CA-CB-CG	5.88	125.86	114.10
7	TB	115	GLU	CA-CB-CG	5.88	125.85	114.10
7	cB	115	GLU	CA-CB-CG	5.88	125.85	114.10
7	TM	115	GLU	CA-CB-CG	5.88	125.85	114.10
7	cM	115	GLU	CA-CB-CG	5.88	125.85	114.10
7	JB	115	GLU	CA-CB-CG	5.87	125.84	114.10
7	JM	115	GLU	CA-CB-CG	5.87	125.84	114.10
7	ZB	115	GLU	CA-CB-CG	5.87	125.83	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	kB	115	GLU	CA-CB-CG	5.87	125.83	114.10
6	ZF	149	GLY	N-CA-C	-5.87	105.51	113.37
6	ZI	149	GLY	N-CA-C	-5.87	105.51	113.37
7	ZM	115	GLU	CA-CB-CG	5.87	125.83	114.10
7	kM	115	GLU	CA-CB-CG	5.87	125.83	114.10
7	gB	115	GLU	CA-CB-CG	5.86	125.82	114.10
7	gM	115	GLU	CA-CB-CG	5.86	125.82	114.10
4	I7	115	LEU	N-CA-C	5.86	117.66	111.28
4	I9	115	LEU	N-CA-C	5.86	117.66	111.28
7	mB	115	GLU	CA-CB-CG	5.86	125.81	114.10
7	mM	115	GLU	CA-CB-CG	5.86	125.81	114.10
7	FB	115	GLU	CA-CB-CG	5.85	125.81	114.10
7	FM	115	GLU	CA-CB-CG	5.85	125.81	114.10
7	RB	115	GLU	CA-CB-CG	5.85	125.81	114.10
7	mF	57	SER	N-CA-C	-5.85	104.98	111.36
7	mI	57	SER	N-CA-C	-5.85	104.98	111.36
7	RM	115	GLU	CA-CB-CG	5.85	125.81	114.10
7	DB	115	GLU	CA-CB-CG	5.85	125.80	114.10
7	DM	115	GLU	CA-CB-CG	5.85	125.80	114.10
7	HB	115	GLU	CA-CB-CG	5.84	125.78	114.10
7	XB	115	GLU	CA-CB-CG	5.84	125.78	114.10
7	HM	115	GLU	CA-CB-CG	5.84	125.78	114.10
7	XM	115	GLU	CA-CB-CG	5.84	125.78	114.10
6	E3	24	LEU	CA-C-O	5.84	126.35	119.28
6	EO	24	LEU	CA-C-O	5.84	126.35	119.28
23	yP	71	GLY	N-CA-C	-5.84	105.06	112.65
6	I3	43	LYS	N-CA-C	-5.83	106.00	113.23
6	OF	41	ALA	N-CA-C	5.83	117.31	111.07
6	OI	41	ALA	N-CA-C	5.83	117.31	111.07
6	IO	43	LYS	N-CA-C	-5.83	106.00	113.23
6	ZF	43	LYS	N-CA-C	-5.83	105.01	111.36
6	ZI	43	LYS	N-CA-C	-5.83	105.01	111.36
6	S2	78	LYS	N-CA-C	5.81	117.61	111.28
7	D3	144	ASN	N-CA-C	5.81	119.44	111.54
7	iF	57	SER	N-CA-C	-5.81	105.03	111.36
7	iI	57	SER	N-CA-C	-5.81	105.03	111.36
7	DO	144	ASN	N-CA-C	5.81	119.44	111.54
23	WP	71	GLY	N-CA-C	-5.80	105.10	112.65
6	UF	43	LYS	N-CA-C	-5.80	105.04	111.36
6	UI	43	LYS	N-CA-C	-5.80	105.04	111.36
6	SR	78	LYS	N-CA-C	5.80	117.60	111.28
3	B7	84	ILE	CA-C-N	-5.79	113.39	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B7	84	ILE	C-N-CA	-5.79	113.39	122.65
3	B9	84	ILE	CA-C-N	-5.79	113.39	122.65
3	B9	84	ILE	C-N-CA	-5.79	113.39	122.65
7	RB	25	GLN	CB-CG-CD	5.79	122.44	112.60
6	hF	43	LYS	N-CA-C	-5.79	105.05	111.36
6	hI	43	LYS	N-CA-C	-5.79	105.05	111.36
7	RM	25	GLN	CB-CG-CD	5.79	122.44	112.60
7	iB	25	GLN	CB-CG-CD	5.78	122.43	112.60
7	iM	25	GLN	CB-CG-CD	5.78	122.43	112.60
7	H3	144	ASN	N-CA-C	5.78	119.40	111.54
7	HO	144	ASN	N-CA-C	5.78	119.40	111.54
7	B3	144	ASN	N-CA-C	5.77	119.39	111.54
7	PB	25	GLN	CB-CG-CD	5.77	122.41	112.60
7	PM	25	GLN	CB-CG-CD	5.77	122.41	112.60
7	BO	144	ASN	N-CA-C	5.77	119.39	111.54
7	LB	25	GLN	CB-CG-CD	5.77	122.41	112.60
7	LM	25	GLN	CB-CG-CD	5.77	122.41	112.60
6	C3	25	GLU	N-CA-C	-5.77	104.96	112.23
7	ZB	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	eB	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	mB	25	GLN	CB-CG-CD	5.77	122.41	112.60
7	ZM	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	eM	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	mM	25	GLN	CB-CG-CD	5.77	122.41	112.60
6	CO	25	GLU	N-CA-C	-5.77	104.96	112.23
7	VB	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	VM	25	GLN	CB-CG-CD	5.77	122.40	112.60
7	HB	25	GLN	CB-CG-CD	5.76	122.40	112.60
7	HM	25	GLN	CB-CG-CD	5.76	122.40	112.60
7	JB	25	GLN	CB-CG-CD	5.76	122.39	112.60
7	JM	25	GLN	CB-CG-CD	5.76	122.39	112.60
7	FB	25	GLN	CB-CG-CD	5.75	122.38	112.60
7	FM	25	GLN	CB-CG-CD	5.75	122.38	112.60
7	XB	25	GLN	CB-CG-CD	5.75	122.37	112.60
7	XM	25	GLN	CB-CG-CD	5.75	122.37	112.60
7	kB	25	GLN	CB-CG-CD	5.75	122.37	112.60
7	kM	25	GLN	CB-CG-CD	5.75	122.37	112.60
7	gB	25	GLN	CB-CG-CD	5.74	122.36	112.60
7	gM	25	GLN	CB-CG-CD	5.74	122.36	112.60
7	DB	25	GLN	CB-CG-CD	5.74	122.36	112.60
7	cB	25	GLN	CB-CG-CD	5.74	122.36	112.60
7	DM	25	GLN	CB-CG-CD	5.74	122.36	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	cM	25	GLN	CB-CG-CD	5.74	122.36	112.60
18	MC	50	GLU	CA-C-N	5.74	127.01	119.84
18	MC	50	GLU	C-N-CA	5.74	127.01	119.84
3	B1	84	ILE	CA-C-N	-5.72	113.11	122.54
3	B1	84	ILE	C-N-CA	-5.72	113.11	122.54
3	BK	84	ILE	CA-C-N	-5.72	113.11	122.54
3	BK	84	ILE	C-N-CA	-5.72	113.11	122.54
6	S2	140	VAL	CB-CA-C	-5.71	108.29	114.35
7	J3	176	ILE	CB-CA-C	-5.71	104.59	111.85
7	JO	176	ILE	CB-CA-C	-5.71	104.59	111.85
3	B7	23	ASN	CA-C-N	5.71	126.03	119.92
3	B7	23	ASN	C-N-CA	5.71	126.03	119.92
3	B9	23	ASN	CA-C-N	5.71	126.03	119.92
3	B9	23	ASN	C-N-CA	5.71	126.03	119.92
18	ME	50	GLU	CA-C-N	5.71	126.98	119.84
18	ME	50	GLU	C-N-CA	5.71	126.98	119.84
7	B3	173	GLY	N-CA-C	-5.71	99.66	113.18
7	BO	173	GLY	N-CA-C	-5.71	99.66	113.18
7	TF	67	ILE	N-CA-C	5.70	118.47	112.83
7	TI	67	ILE	N-CA-C	5.70	118.47	112.83
7	eF	67	ILE	N-CA-C	5.67	118.45	112.83
7	eI	67	ILE	N-CA-C	5.67	118.45	112.83
6	MR	140	VAL	N-CA-C	5.67	119.15	112.35
6	K3	41	ALA	N-CA-C	5.66	117.12	111.07
6	KO	41	ALA	N-CA-C	5.66	117.12	111.07
7	H3	25	GLN	CB-CG-CD	5.65	122.21	112.60
5	FF	17	GLU	N-CA-C	5.65	118.45	109.24
7	HO	25	GLN	CB-CG-CD	5.65	122.21	112.60
7	D3	25	GLN	CB-CG-CD	5.64	122.19	112.60
7	DO	25	GLN	CB-CG-CD	5.64	122.19	112.60
6	G3	41	ALA	N-CA-C	5.64	117.11	111.07
6	GO	41	ALA	N-CA-C	5.64	117.11	111.07
7	L3	25	GLN	CB-CG-CD	5.64	122.18	112.60
7	YF	130	ALA	N-CA-C	5.64	117.42	111.28
7	YI	130	ALA	N-CA-C	5.64	117.42	111.28
7	LO	25	GLN	CB-CG-CD	5.64	122.18	112.60
7	J3	25	GLN	CB-CG-CD	5.63	122.18	112.60
7	JO	25	GLN	CB-CG-CD	5.63	122.18	112.60
7	B3	25	GLN	CB-CG-CD	5.63	122.17	112.60
15	bM	347	ALA	N-CA-C	5.63	122.80	110.80
7	BO	25	GLN	CB-CG-CD	5.63	122.17	112.60
6	E3	43	LYS	N-CA-C	-5.63	106.25	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	EO	43	LYS	N-CA-C	-5.63	106.25	113.23
7	RR	79	MET	CB-CG-SD	5.63	129.58	112.70
7	R2	79	MET	CB-CG-SD	5.62	129.56	112.70
7	T2	79	MET	CB-CG-SD	5.62	129.56	112.70
4	MF	110	TYR	N-CA-CB	5.62	120.11	110.34
4	MI	110	TYR	N-CA-CB	5.62	120.11	110.34
7	PR	79	MET	CB-CG-SD	5.61	129.53	112.70
8	eR	79	ASP	N-CA-C	5.61	117.47	110.91
7	aF	130	ALA	N-CA-C	5.60	117.39	111.28
7	aI	130	ALA	N-CA-C	5.60	117.39	111.28
7	TR	79	MET	CB-CG-SD	5.60	129.51	112.70
6	I3	44	LEU	N-CA-CB	5.60	118.54	110.20
6	IO	44	LEU	N-CA-CB	5.60	118.54	110.20
7	V2	79	MET	CB-CG-SD	5.59	129.48	112.70
7	ID	114	LYS	N-CA-C	-5.59	105.18	111.28
7	F3	25	GLN	CB-CG-CD	5.59	122.11	112.60
6	UF	51	VAL	N-CA-C	5.59	116.32	110.62
6	UI	51	VAL	N-CA-C	5.59	116.32	110.62
7	FO	25	GLN	CB-CG-CD	5.59	122.11	112.60
7	VR	79	MET	CB-CG-SD	5.59	129.47	112.70
8	e2	79	ASP	N-CA-C	5.58	117.43	110.91
6	SR	140	VAL	CA-C-N	5.58	125.24	119.05
6	SR	140	VAL	C-N-CA	5.58	125.24	119.05
6	S2	139	CYS	N-CA-C	-5.57	99.81	108.90
7	M4	51	MET	N-CA-C	5.53	117.31	111.28
7	I8	3	ASP	N-CA-C	5.53	118.18	109.39
6	bF	51	VAL	N-CA-C	5.52	116.25	110.62
6	bI	51	VAL	N-CA-C	5.52	116.25	110.62
6	hF	51	VAL	N-CA-C	5.52	116.25	110.62
7	mF	107	ASP	N-CA-CB	-5.52	103.00	110.67
6	hI	51	VAL	N-CA-C	5.52	116.25	110.62
7	mI	107	ASP	N-CA-CB	-5.52	103.00	110.67
6	ZF	150	VAL	N-CA-C	5.51	115.71	110.42
6	ZI	150	VAL	N-CA-C	5.51	115.71	110.42
6	K3	94	ASN	N-CA-CB	5.51	118.31	110.16
6	KO	94	ASN	N-CA-CB	5.51	118.31	110.16
6	GG	115	GLU	CA-CB-CG	5.50	125.11	114.10
6	GQ	115	GLU	CA-CB-CG	5.50	125.11	114.10
6	IG	115	GLU	CA-CB-CG	5.50	125.10	114.10
6	IQ	115	GLU	CA-CB-CG	5.50	125.10	114.10
6	E3	42	GLU	CB-CA-C	-5.50	99.66	110.11
6	EO	42	GLU	CB-CA-C	-5.50	99.66	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	zJ	119	SER	CA-CB-OG	5.50	122.09	111.10
19	zL	119	SER	CA-CB-OG	5.50	122.09	111.10
6	A3	139	CYS	N-CA-C	5.49	117.42	109.07
6	AO	139	CYS	N-CA-C	5.49	117.42	109.07
6	EG	115	GLU	CA-CB-CG	5.49	125.08	114.10
6	EQ	115	GLU	CA-CB-CG	5.49	125.08	114.10
6	G3	44	LEU	N-CA-C	-5.49	104.94	111.69
6	GO	44	LEU	N-CA-C	-5.49	104.94	111.69
6	AG	115	GLU	CA-CB-CG	5.48	125.06	114.10
6	AQ	115	GLU	CA-CB-CG	5.48	125.06	114.10
6	bF	140	VAL	CA-C-O	5.48	122.36	118.69
6	bI	140	VAL	CA-C-O	5.48	122.36	118.69
14	MQ	145	CYS	CA-CB-SG	5.48	127.00	114.40
5	JF	149	PRO	N-CA-C	5.47	119.62	111.41
5	JI	149	PRO	N-CA-C	5.47	119.62	111.41
6	WF	53	LYS	N-CA-C	-5.47	105.24	111.14
6	WI	53	LYS	N-CA-C	-5.47	105.24	111.14
18	MC	99	MET	CA-CB-CG	5.46	125.03	114.10
6	CG	115	GLU	CA-CB-CG	5.46	125.03	114.10
6	CQ	115	GLU	CA-CB-CG	5.46	125.03	114.10
3	B7	205	ARG	CA-C-N	5.46	131.97	121.54
3	B7	205	ARG	C-N-CA	5.46	131.97	121.54
3	B9	205	ARG	CA-C-N	5.46	131.97	121.54
3	B9	205	ARG	C-N-CA	5.46	131.97	121.54
3	B1	59	GLN	N-CA-C	-5.46	106.40	112.57
6	KG	115	GLU	CA-CB-CG	5.46	125.02	114.10
16	xJ	140	LYS	CD-CE-NZ	-5.46	94.43	111.90
3	BK	59	GLN	N-CA-C	-5.46	106.40	112.57
16	xL	140	LYS	CD-CE-NZ	-5.46	94.43	111.90
6	KQ	115	GLU	CA-CB-CG	5.46	125.02	114.10
14	MG	145	CYS	CA-CB-SG	5.46	126.94	114.40
18	ME	99	MET	CA-CB-CG	5.45	125.01	114.10
16	wL	140	LYS	CD-CE-NZ	-5.44	94.48	111.90
6	E3	44	LEU	N-CA-C	-5.44	105.00	111.69
6	EO	44	LEU	N-CA-C	-5.44	105.00	111.69
16	wJ	140	LYS	CD-CE-NZ	-5.43	94.51	111.90
8	eR	149	GLN	CA-C-N	-5.43	113.05	122.83
8	eR	149	GLN	C-N-CA	-5.43	113.05	122.83
6	I3	43	LYS	N-CA-CB	5.43	118.91	110.44
6	IO	43	LYS	N-CA-CB	5.43	118.91	110.44
7	VF	55	ALA	N-CA-C	5.42	117.00	111.14
7	VI	55	ALA	N-CA-C	5.42	117.00	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B1	59	GLN	CB-CA-C	5.42	119.46	111.06
6	E3	44	LEU	N-CA-CB	5.42	118.28	110.20
3	BK	59	GLN	CB-CA-C	5.42	119.46	111.06
6	EO	44	LEU	N-CA-CB	5.42	118.28	110.20
13	k6	128	ILE	CA-C-N	5.42	125.24	119.28
13	k6	128	ILE	C-N-CA	5.42	125.24	119.28
7	m7	176	ILE	N-CA-C	5.41	116.73	111.91
7	m9	176	ILE	N-CA-C	5.41	116.73	111.91
16	wL	254	GLN	CA-CB-CG	5.41	124.92	114.10
16	wJ	254	GLN	CA-CB-CG	5.41	124.91	114.10
6	OF	140	VAL	CA-C-O	5.40	122.31	118.69
6	OI	140	VAL	CA-C-O	5.40	122.31	118.69
15	bM	373	GLU	N-CA-C	5.40	117.25	111.36
6	K3	42	GLU	CB-CA-C	-5.37	99.26	109.95
3	B9	7	LYS	N-CA-C	5.37	118.69	110.20
16	xJ	254	GLN	CA-CB-CG	5.37	124.85	114.10
6	KO	42	GLU	CB-CA-C	-5.37	99.26	109.95
3	B7	7	LYS	N-CA-C	5.37	118.68	110.20
6	G3	44	LEU	N-CA-CB	5.36	118.19	110.20
16	xL	254	GLN	CA-CB-CG	5.36	124.82	114.10
6	GO	44	LEU	N-CA-CB	5.36	118.19	110.20
6	ZF	41	ALA	N-CA-C	5.36	116.81	111.07
6	ZI	41	ALA	N-CA-C	5.36	116.81	111.07
7	H3	145	THR	CB-CA-C	-5.36	102.24	111.45
7	HO	145	THR	CB-CA-C	-5.36	102.24	111.45
7	B3	145	THR	CB-CA-C	-5.35	102.24	111.45
7	BO	145	THR	CB-CA-C	-5.35	102.24	111.45
6	W7	142	ARG	N-CA-C	5.35	117.19	111.36
6	W9	142	ARG	N-CA-C	5.35	117.19	111.36
6	hF	41	ALA	N-CA-C	5.35	116.80	111.07
6	hI	41	ALA	N-CA-C	5.35	116.80	111.07
6	SR	142	ARG	NE-CZ-NH2	-5.34	114.39	119.20
19	zJ	244	MET	N-CA-C	-5.33	106.09	113.18
19	zL	244	MET	N-CA-C	-5.33	106.09	113.18
7	D3	145	THR	CB-CA-C	-5.33	102.29	111.45
7	DO	145	THR	CB-CA-C	-5.33	102.29	111.45
6	B4	34	SER	N-CA-C	5.30	117.06	111.28
6	S2	98	VAL	N-CA-CB	5.30	118.79	110.31
6	SR	98	VAL	N-CA-CB	5.30	118.79	110.31
6	S2	49	GLU	CA-CB-CG	5.29	124.68	114.10
6	U2	49	GLU	CA-CB-CG	5.29	124.68	114.10
6	UF	41	ALA	N-CA-C	5.29	116.73	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	UI	41	ALA	N-CA-C	5.29	116.73	111.07
6	SR	49	GLU	CA-CB-CG	5.29	124.67	114.10
7	G4	171	ARG	CB-CG-CD	5.28	123.45	111.30
6	OR	49	GLU	CA-CB-CG	5.28	124.67	114.10
6	bF	43	LYS	N-CA-C	-5.28	105.61	111.36
7	eF	57	SER	N-CA-C	-5.28	105.60	111.36
6	bI	43	LYS	N-CA-C	-5.28	105.61	111.36
7	eI	57	SER	N-CA-C	-5.28	105.60	111.36
6	WF	43	LYS	N-CA-C	-5.28	105.61	111.36
6	WI	43	LYS	N-CA-C	-5.28	105.61	111.36
7	I4	171	ARG	CB-CG-CD	5.28	123.43	111.30
6	WR	49	GLU	CA-CB-CG	5.27	124.65	114.10
7	ID	171	ARG	CB-CG-CD	5.27	123.43	111.30
7	K4	171	ARG	CB-CG-CD	5.27	123.42	111.30
5	F7	121	GLY	N-CA-C	-5.27	108.05	115.32
7	KD	171	ARG	CB-CG-CD	5.27	123.41	111.30
7	E4	171	ARG	CB-CG-CD	5.26	123.41	111.30
7	B8	107	ASP	N-CA-C	5.26	116.83	111.14
7	ED	171	ARG	CB-CG-CD	5.26	123.41	111.30
6	S2	142	ARG	N-CA-C	5.26	116.82	111.14
6	W2	49	GLU	CA-CB-CG	5.26	124.62	114.10
5	F9	121	GLY	N-CA-C	-5.26	108.06	115.32
6	F4	53	LYS	CB-CG-CD	5.26	123.39	111.30
6	FD	53	LYS	CB-CG-CD	5.26	123.40	111.30
7	GD	171	ARG	CB-CG-CD	5.26	123.40	111.30
6	LD	53	LYS	CB-CG-CD	5.26	123.40	111.30
6	QR	49	GLU	CA-CB-CG	5.26	124.61	114.10
6	U2	142	ARG	N-CA-C	5.25	117.09	111.36
6	L4	53	LYS	CB-CG-CD	5.25	123.38	111.30
7	MD	171	ARG	CB-CG-CD	5.25	123.38	111.30
6	O2	49	GLU	CA-CB-CG	5.25	124.60	114.10
6	BD	53	LYS	CB-CG-CD	5.25	123.38	111.30
6	DD	53	LYS	CB-CG-CD	5.25	123.37	111.30
3	B1	58	HIS	CA-CB-CG	-5.25	108.55	113.80
3	BK	58	HIS	CA-CB-CG	-5.25	108.55	113.80
7	aF	107	ASP	N-CA-C	5.24	120.68	113.97
7	aI	107	ASP	N-CA-C	5.24	120.68	113.97
6	UR	49	GLU	CA-CB-CG	5.24	124.58	114.10
6	Q2	49	GLU	CA-CB-CG	5.24	124.58	114.10
7	BA	24	LEU	CB-CG-CD2	-5.24	94.97	110.70
7	DA	24	LEU	CB-CG-CD2	-5.24	94.97	110.70
7	BN	24	LEU	CB-CG-CD2	-5.24	94.97	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	DN	24	LEU	CB-CG-CD2	-5.24	94.97	110.70
6	B4	53	LYS	CB-CG-CD	5.24	123.36	111.30
6	D4	53	LYS	CB-CG-CD	5.24	123.35	111.30
7	LA	24	LEU	CB-CG-CD2	-5.24	94.98	110.70
7	LN	24	LEU	CB-CG-CD2	-5.24	94.98	110.70
6	J4	53	LYS	CB-CG-CD	5.24	123.34	111.30
5	J1	62	GLU	CA-CB-CG	5.24	124.57	114.10
5	JK	62	GLU	CA-CB-CG	5.24	124.57	114.10
7	HA	24	LEU	CB-CG-CD2	-5.23	95.00	110.70
7	HN	24	LEU	CB-CG-CD2	-5.23	95.00	110.70
6	M2	142	ARG	NE-CZ-NH2	-5.23	114.49	119.20
6	H4	53	LYS	CB-CG-CD	5.23	123.33	111.30
7	M4	171	ARG	CB-CG-CD	5.23	123.33	111.30
7	CD	171	ARG	CB-CG-CD	5.23	123.33	111.30
6	JD	53	LYS	CB-CG-CD	5.23	123.33	111.30
7	C4	171	ARG	CB-CG-CD	5.23	123.33	111.30
14	MQ	260	ALA	CA-C-N	5.23	129.83	122.46
14	MQ	260	ALA	C-N-CA	5.23	129.83	122.46
7	FA	24	LEU	CB-CG-CD2	-5.22	95.03	110.70
7	FN	24	LEU	CB-CG-CD2	-5.22	95.03	110.70
5	L1	62	GLU	CA-CB-CG	5.22	124.54	114.10
6	W2	139	CYS	CA-C-N	5.22	124.50	120.33
6	W2	139	CYS	C-N-CA	5.22	124.50	120.33
5	LK	62	GLU	CA-CB-CG	5.22	124.54	114.10
18	ME	230	LEU	CA-CB-CG	5.22	134.56	116.30
6	E3	54	GLU	N-CA-C	5.22	119.40	113.19
14	MG	260	ALA	CA-C-N	5.22	129.81	122.46
14	MG	260	ALA	C-N-CA	5.22	129.81	122.46
6	EO	54	GLU	N-CA-C	5.22	119.40	113.19
6	G3	24	LEU	CA-C-O	5.21	125.59	119.28
18	MC	230	LEU	CA-CB-CG	5.21	134.54	116.30
6	HD	53	LYS	CB-CG-CD	5.21	123.29	111.30
6	GO	24	LEU	CA-C-O	5.21	125.59	119.28
5	L1	62	GLU	CB-CA-C	-5.19	102.67	110.92
5	LK	62	GLU	CB-CA-C	-5.19	102.67	110.92
7	cF	132	SER	N-CA-CB	5.18	117.83	110.16
7	cI	132	SER	N-CA-CB	5.18	117.83	110.16
5	J1	62	GLU	CB-CA-C	-5.17	102.70	110.92
5	JK	62	GLU	CB-CA-C	-5.17	102.70	110.92
6	G3	43	LYS	N-CA-C	-5.17	106.83	113.23
6	GO	43	LYS	N-CA-C	-5.17	106.83	113.23
7	B3	26	ALA	N-CA-C	5.16	117.65	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	BO	26	ALA	N-CA-C	5.16	117.65	111.71
25	YP	514	ILE	N-CA-C	5.16	120.07	109.34
6	I3	24	LEU	CA-C-O	5.15	125.52	119.28
6	L4	114	ARG	CB-CG-CD	5.15	123.15	111.30
6	IO	24	LEU	CA-C-O	5.15	125.52	119.28
6	LD	114	ARG	CB-CG-CD	5.15	123.14	111.30
6	ZI	151	GLU	N-CA-CB	-5.15	102.29	110.22
6	dF	53	LYS	N-CA-CB	5.14	117.52	110.07
6	dI	53	LYS	N-CA-CB	5.14	117.52	110.07
7	F3	144	ASN	CB-CA-C	-5.13	104.30	111.80
9	O3	40	THR	CA-C-N	5.13	131.35	121.54
9	O3	40	THR	C-N-CA	5.13	131.35	121.54
6	aB	49	GLU	CA-CB-CG	5.13	124.37	114.10
6	aM	49	GLU	CA-CB-CG	5.13	124.37	114.10
7	FO	144	ASN	CB-CA-C	-5.13	104.30	111.80
9	OO	40	THR	CA-C-N	5.13	131.35	121.54
9	OO	40	THR	C-N-CA	5.13	131.35	121.54
6	hB	49	GLU	CA-CB-CG	5.13	124.37	114.10
7	gF	132	SER	N-CA-C	-5.13	105.77	111.36
7	gI	132	SER	N-CA-C	-5.13	105.77	111.36
6	hM	49	GLU	CA-CB-CG	5.13	124.37	114.10
7	B3	171	ARG	N-CA-C	5.13	116.87	111.28
7	BO	171	ARG	N-CA-C	5.13	116.87	111.28
6	SR	140	VAL	CB-CA-C	-5.12	108.92	114.35
6	IB	49	GLU	CA-CB-CG	5.12	124.35	114.10
6	UB	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	IM	49	GLU	CA-CB-CG	5.12	124.35	114.10
6	UM	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	WB	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	WM	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	dB	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	dM	49	GLU	CA-CB-CG	5.12	124.34	114.10
6	EB	49	GLU	CA-CB-CG	5.12	124.33	114.10
6	EM	49	GLU	CA-CB-CG	5.12	124.33	114.10
6	OB	49	GLU	CA-CB-CG	5.11	124.32	114.10
6	OM	49	GLU	CA-CB-CG	5.11	124.32	114.10
6	D4	49	GLU	CA-CB-CG	5.11	124.32	114.10
10	dD	217	SER	CA-CB-OG	5.11	121.32	111.10
6	B4	49	GLU	CA-CB-CG	5.11	124.31	114.10
6	LD	49	GLU	CA-CB-CG	5.11	124.32	114.10
10	d4	217	SER	CA-CB-OG	5.11	121.31	111.10
7	I5	77	ARG	N-CA-C	5.11	116.92	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	DD	49	GLU	CA-CB-CG	5.11	124.31	114.10
18	ME	205	ARG	CA-C-N	5.11	131.29	121.54
18	ME	205	ARG	C-N-CA	5.11	131.29	121.54
6	OR	140	VAL	N-CA-C	5.10	118.47	112.35
6	J4	49	GLU	CA-CB-CG	5.10	124.30	114.10
6	L4	49	GLU	CA-CB-CG	5.10	124.30	114.10
6	jB	49	GLU	CA-CB-CG	5.10	124.30	114.10
7	GD	76	ASN	N-CA-C	5.10	116.84	111.28
6	fB	49	GLU	CA-CB-CG	5.10	124.30	114.10
18	MC	205	ARG	CA-C-N	5.10	131.28	121.54
18	MC	205	ARG	C-N-CA	5.10	131.28	121.54
6	fM	49	GLU	CA-CB-CG	5.10	124.30	114.10
6	JD	49	GLU	CA-CB-CG	5.10	124.30	114.10
6	QR	42	GLU	CA-CB-CG	5.09	124.28	114.10
6	QB	49	GLU	CA-CB-CG	5.09	124.28	114.10
6	BD	49	GLU	CA-CB-CG	5.09	124.28	114.10
6	QM	49	GLU	CA-CB-CG	5.09	124.28	114.10
6	HD	49	GLU	CA-CB-CG	5.09	124.27	114.10
6	SR	42	GLU	CA-CB-CG	5.09	124.27	114.10
6	FD	49	GLU	CA-CB-CG	5.08	124.27	114.10
6	H4	49	GLU	CA-CB-CG	5.08	124.27	114.10
6	C3	25	GLU	N-CA-CB	5.08	118.13	110.30
6	CO	25	GLU	N-CA-CB	5.08	118.13	110.30
6	WR	42	GLU	CA-CB-CG	5.08	124.26	114.10
6	U2	42	GLU	CA-CB-CG	5.08	124.26	114.10
7	LB	25	GLN	CA-CB-CG	5.08	124.26	114.10
7	DJ	52	VAL	CB-CA-C	-5.08	105.21	112.22
7	DL	52	VAL	CB-CA-C	-5.08	105.21	112.22
7	LM	25	GLN	CA-CB-CG	5.08	124.26	114.10
6	UR	42	GLU	CA-CB-CG	5.08	124.26	114.10
6	W2	42	GLU	CA-CB-CG	5.08	124.25	114.10
6	Q2	42	GLU	CA-CB-CG	5.07	124.25	114.10
6	E3	24	LEU	CB-CA-C	-5.07	100.88	110.01
7	ZB	25	GLN	CA-CB-CG	5.07	124.25	114.10
7	bJ	52	VAL	CB-CA-C	-5.07	105.22	112.22
7	bL	52	VAL	CB-CA-C	-5.07	105.22	112.22
7	ZM	25	GLN	CA-CB-CG	5.07	124.25	114.10
6	EO	24	LEU	CB-CA-C	-5.07	100.88	110.01
7	I8	77	ARG	N-CA-C	5.07	116.89	111.36
7	iB	25	GLN	CA-CB-CG	5.07	124.24	114.10
7	iM	25	GLN	CA-CB-CG	5.07	124.24	114.10
6	F4	49	GLU	CA-CB-CG	5.07	124.24	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	DB	25	GLN	CA-CB-CG	5.07	124.24	114.10
7	LJ	52	VAL	CB-CA-C	-5.07	105.22	112.22
7	LL	52	VAL	CB-CA-C	-5.07	105.22	112.22
7	DM	25	GLN	CA-CB-CG	5.07	124.24	114.10
6	S2	42	GLU	CA-CB-CG	5.07	124.24	114.10
10	d4	309	ALA	CA-C-N	-5.07	112.61	120.31
10	d4	309	ALA	C-N-CA	-5.07	112.61	120.31
6	O2	42	GLU	CA-CB-CG	5.07	124.23	114.10
7	mB	25	GLN	CA-CB-CG	5.07	124.23	114.10
7	hJ	52	VAL	CB-CA-C	-5.07	105.23	112.22
7	hL	52	VAL	CB-CA-C	-5.07	105.23	112.22
7	mM	25	GLN	CA-CB-CG	5.07	124.23	114.10
6	QR	140	VAL	CB-CA-C	-5.07	107.36	114.00
7	JB	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	kB	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	JM	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	kM	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	HB	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	HM	25	GLN	CA-CB-CG	5.06	124.23	114.10
7	PB	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	VB	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	gB	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	PM	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	VM	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	gM	25	GLN	CA-CB-CG	5.06	124.22	114.10
7	tJ	52	VAL	CB-CA-C	-5.06	105.24	112.22
7	tL	52	VAL	CB-CA-C	-5.06	105.24	112.22
6	OR	42	GLU	CA-CB-CG	5.06	124.21	114.10
10	dD	309	ALA	CA-C-N	-5.06	112.63	120.31
10	dD	309	ALA	C-N-CA	-5.06	112.63	120.31
6	SF	53	LYS	N-CA-C	-5.06	105.85	111.36
6	SI	53	LYS	N-CA-C	-5.06	105.85	111.36
6	UR	140	VAL	CB-CA-C	-5.06	108.99	114.35
7	XB	25	GLN	CA-CB-CG	5.05	124.21	114.10
7	XM	25	GLN	CA-CB-CG	5.05	124.21	114.10
7	cF	148	GLU	N-CA-CB	-5.05	103.01	110.49
7	cI	148	GLU	N-CA-CB	-5.05	103.01	110.49
7	cB	25	GLN	CA-CB-CG	5.05	124.20	114.10
5	NF	24	ILE	N-CA-C	-5.05	104.78	111.09
5	NI	24	ILE	N-CA-C	-5.05	104.78	111.09
7	cM	25	GLN	CA-CB-CG	5.05	124.20	114.10
25	1P	512	GLU	N-CA-C	5.05	116.86	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	IJ	52	VAL	CB-CA-C	-5.05	105.25	112.22
7	IL	52	VAL	CB-CA-C	-5.05	105.25	112.22
7	eB	25	GLN	CA-CB-CG	5.04	124.19	114.10
7	TJ	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	TL	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	eM	25	GLN	CA-CB-CG	5.04	124.19	114.10
7	FJ	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	fJ	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	FL	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	fL	52	VAL	CB-CA-C	-5.04	105.26	112.22
7	JJ	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	JL	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	NJ	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	NL	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	RB	25	GLN	CA-CB-CG	5.04	124.17	114.10
7	RM	25	GLN	CA-CB-CG	5.04	124.17	114.10
7	FB	25	GLN	CA-CB-CG	5.04	124.17	114.10
7	BJ	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	PJ	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	VJ	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	BL	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	PL	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	VL	52	VAL	CB-CA-C	-5.04	105.27	112.22
7	FM	25	GLN	CA-CB-CG	5.04	124.17	114.10
7	B3	172	VAL	CB-CA-C	-5.03	103.04	111.29
7	BO	172	VAL	CB-CA-C	-5.03	103.04	111.29
7	dJ	52	VAL	CB-CA-C	-5.03	105.28	112.22
7	dL	52	VAL	CB-CA-C	-5.03	105.28	112.22
6	W2	41	ALA	N-CA-C	-5.01	105.72	111.14
5	NF	171	VAL	CB-CA-C	-5.00	105.43	110.93
5	NI	171	VAL	CB-CA-C	-5.00	105.43	110.93
7	K5	7	ARG	CA-CB-CG	-5.00	104.10	114.10
7	K8	7	ARG	CA-CB-CG	-5.00	104.10	114.10

There are no chirality outliers.

All (11) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
7	A5	33	ASP	Mainchain
7	A8	33	ASP	Mainchain
7	C5	37	ARG	Mainchain
7	C8	37	ARG	Mainchain

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Mol	Chain	Res	Type	Group
12	E5	161	SER	Peptide
12	E8	161	SER	Peptide
21	LP	71	MEN	Mainchain
6	U2	163	LEU	Mainchain
6	UR	163	LEU	Mainchain
21	jP	71	MEN	Mainchain
21	kP	71	MEN	Mainchain

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	X1	2527	0	2459	61	0
1	X7	2527	0	2459	76	0
1	X9	2527	0	2459	79	0
1	XF	2527	0	2460	51	0
1	XI	2523	0	2449	42	0
1	XK	2527	0	2459	60	0
2	A1	1987	0	1928	42	0
2	A7	1987	0	1927	42	0
2	A9	1987	0	1927	47	0
2	AF	1987	0	1926	22	0
2	AI	1987	0	1926	26	0
2	AK	1987	0	1928	42	0
3	B1	1874	0	1860	158	0
3	B7	1889	0	1876	143	0
3	B9	1889	0	1876	159	0
3	BF	1897	0	1885	116	0
3	BI	1897	0	1886	142	0
3	BK	1874	0	1858	113	0
4	C1	1228	0	1209	56	0
4	C7	1228	0	1209	38	0
4	C9	1228	0	1208	35	0
4	CF	1228	0	1208	42	0
4	CI	1228	0	1208	47	0
4	CK	1228	0	1209	56	0
4	E1	1228	0	1209	89	0
4	E7	1228	0	1211	44	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	E9	1228	0	1211	65	0
4	EF	1228	0	1208	38	0
4	EI	1228	0	1208	44	0
4	EK	1228	0	1209	103	0
4	G1	1228	0	1209	45	0
4	G7	1228	0	1211	18	0
4	G9	1228	0	1211	17	0
4	GF	1228	0	1206	53	0
4	GI	1228	0	1206	49	0
4	GK	1228	0	1209	54	0
4	I1	1228	0	1205	35	0
4	I7	1228	0	1211	41	0
4	I9	1228	0	1211	46	0
4	IF	1228	0	1207	26	0
4	II	1228	0	1207	28	0
4	IK	1228	0	1209	54	0
4	K1	1228	0	1209	34	0
4	K7	1228	0	1209	39	0
4	K9	1228	0	1211	49	0
4	KF	1228	0	1207	46	0
4	KI	1228	0	1207	37	0
4	KK	1228	0	1209	32	0
4	M1	1228	0	1209	62	0
4	M7	1228	0	1211	29	0
4	M9	1228	0	1211	24	0
4	MF	1228	0	1207	27	0
4	MI	1228	0	1207	27	0
4	MK	1228	0	1209	58	0
5	D1	1272	0	1273	43	0
5	D7	1272	0	1280	54	0
5	D9	1272	0	1280	56	0
5	DF	1272	0	1278	51	0
5	DI	1272	0	1278	44	0
5	DK	1272	0	1275	45	0
5	F1	1272	0	1275	61	0
5	F7	1272	0	1280	77	0
5	F9	1272	0	1280	80	0
5	FF	1272	0	1280	41	0
5	FI	1272	0	1280	31	0
5	FK	1272	0	1275	76	0
5	H1	1272	0	1275	66	0
5	H7	1272	0	1281	71	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	H9	1272	0	1281	73	0
5	HF	1272	0	1280	45	0
5	HI	1272	0	1280	42	0
5	HK	1272	0	1275	71	0
5	J1	1272	0	1275	143	0
5	J7	1272	0	1281	52	0
5	J9	1272	0	1281	51	0
5	JF	1272	0	1279	115	0
5	JI	1272	0	1279	132	0
5	JK	1272	0	1275	150	0
5	L1	1272	0	1276	86	0
5	L7	1272	0	1280	52	0
5	L9	1272	0	1280	68	0
5	LF	1272	0	1280	54	0
5	LI	1272	0	1280	50	0
5	LK	1272	0	1276	70	0
5	N1	1272	0	1273	99	0
5	N7	1272	0	1280	48	0
5	N9	1272	0	1280	51	0
5	NF	1272	0	1281	32	0
5	NI	1272	0	1281	35	0
5	NK	1272	0	1273	85	0
6	A3	1250	0	1218	47	0
6	AA	1250	0	1219	65	0
6	AC	1250	0	1216	38	0
6	AE	1250	0	1216	36	0
6	AG	1250	0	1220	97	0
6	AJ	1250	0	1213	66	0
6	AL	1250	0	1213	70	0
6	AN	1250	0	1219	62	0
6	AO	1250	0	1218	48	0
6	AQ	1250	0	1220	101	0
6	B4	1250	0	1220	142	0
6	BD	1250	0	1220	147	0
6	C3	1250	0	1216	28	0
6	CA	1250	0	1219	45	0
6	CB	1250	0	1218	30	0
6	CC	1250	0	1218	36	0
6	CE	1250	0	1218	36	0
6	CG	1250	0	1220	83	0
6	CJ	1250	0	1213	32	0
6	CL	1250	0	1213	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	CM	1250	0	1218	28	0
6	CN	1250	0	1219	42	0
6	CO	1250	0	1216	29	0
6	CQ	1250	0	1220	96	0
6	D4	1250	0	1218	156	0
6	DD	1250	0	1220	158	0
6	E3	1250	0	1216	28	0
6	EA	1250	0	1219	65	0
6	EB	1250	0	1219	27	0
6	EC	1250	0	1218	32	0
6	EE	1250	0	1218	31	0
6	EG	1250	0	1220	71	0
6	EJ	1250	0	1212	33	0
6	EL	1250	0	1212	32	0
6	EM	1250	0	1219	28	0
6	EN	1250	0	1219	62	0
6	EO	1250	0	1216	28	0
6	EQ	1250	0	1220	63	0
6	F4	1250	0	1219	171	0
6	FD	1250	0	1219	163	0
6	G3	1250	0	1216	18	0
6	GA	1250	0	1219	53	0
6	GB	1250	0	1221	58	0
6	GC	1250	0	1218	24	0
6	GE	1250	0	1218	27	0
6	GG	1250	0	1220	66	0
6	GJ	1250	0	1213	51	0
6	GL	1250	0	1213	52	0
6	GM	1250	0	1221	62	0
6	GN	1250	0	1219	57	0
6	GO	1250	0	1216	21	0
6	GQ	1250	0	1220	60	0
6	H4	1250	0	1220	157	0
6	HD	1250	0	1220	151	0
6	I3	1250	0	1220	44	0
6	IA	1250	0	1218	74	0
6	IB	1250	0	1218	22	0
6	IC	1250	0	1217	36	0
6	IE	1250	0	1217	40	0
6	IG	1250	0	1220	89	0
6	IJ	1250	0	1214	59	0
6	IL	1250	0	1214	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	IM	1250	0	1218	25	0
6	IN	1250	0	1218	73	0
6	IO	1250	0	1220	45	0
6	IQ	1250	0	1220	74	0
6	J4	1250	0	1219	154	0
6	J5	1250	0	1221	40	0
6	J8	1250	0	1221	53	0
6	JD	1250	0	1219	150	0
6	K3	1250	0	1218	40	0
6	KA	1250	0	1219	106	0
6	KB	1250	0	1218	38	0
6	KC	1250	0	1216	35	0
6	KE	1250	0	1216	34	0
6	KG	1250	0	1220	76	0
6	KJ	1250	0	1210	45	0
6	KL	1250	0	1210	46	0
6	KM	1250	0	1218	38	0
6	KN	1250	0	1219	102	0
6	KO	1250	0	1218	41	0
6	KQ	1250	0	1220	76	0
6	L4	1250	0	1219	139	0
6	LD	1250	0	1219	136	0
6	M2	1250	0	1219	155	0
6	MB	1250	0	1218	42	0
6	MJ	1250	0	1212	35	0
6	ML	1250	0	1214	63	0
6	MM	1250	0	1218	36	0
6	MR	1250	0	1221	126	0
6	O1	1250	0	1212	26	0
6	O2	1249	0	1222	191	0
6	O7	1250	0	1215	12	0
6	O9	1250	0	1215	11	0
6	OB	1250	0	1218	22	0
6	OF	1250	0	1217	19	0
6	OI	1250	0	1217	21	0
6	OJ	1250	0	1212	24	0
6	OK	1250	0	1212	25	0
6	OL	1250	0	1212	26	0
6	OM	1250	0	1218	23	0
6	OR	1249	0	1222	167	0
6	Q1	1250	0	1212	21	0
6	Q2	1250	0	1221	118	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	Q7	1250	0	1215	43	0
6	Q9	1250	0	1215	46	0
6	QB	1250	0	1217	38	0
6	QF	1250	0	1219	20	0
6	QI	1250	0	1219	20	0
6	QJ	1250	0	1211	56	0
6	QK	1250	0	1212	24	0
6	QL	1250	0	1211	57	0
6	QM	1250	0	1217	38	0
6	QR	1250	0	1222	147	0
6	S1	1250	0	1212	30	0
6	S2	1249	0	1220	106	0
6	S7	1250	0	1215	35	0
6	S9	1250	0	1215	37	0
6	SB	1250	0	1218	14	0
6	SF	1250	0	1218	45	0
6	SI	1250	0	1218	30	0
6	SJ	1250	0	1213	53	0
6	SK	1250	0	1212	31	0
6	SL	1250	0	1212	65	0
6	SM	1250	0	1218	13	0
6	SR	1249	0	1219	122	0
6	U1	1250	0	1212	31	0
6	U2	1249	0	1223	132	0
6	U7	1250	0	1215	75	0
6	U9	1250	0	1215	80	0
6	UB	1250	0	1215	76	0
6	UF	1250	0	1217	30	0
6	UI	1250	0	1217	30	0
6	UJ	1250	0	1214	48	0
6	UK	1250	0	1212	28	0
6	UL	1250	0	1214	49	0
6	UM	1250	0	1216	73	0
6	UR	1249	0	1222	124	0
6	W1	1250	0	1213	31	0
6	W2	1250	0	1220	146	0
6	W7	1250	0	1214	64	0
6	W9	1250	0	1216	64	0
6	WB	1250	0	1219	36	0
6	WF	1250	0	1218	28	0
6	WI	1250	0	1218	53	0
6	WJ	1250	0	1213	45	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	WK	1250	0	1213	32	0
6	WL	1250	0	1213	47	0
6	WM	1250	0	1219	40	0
6	WR	1250	0	1219	138	0
6	YB	1250	0	1218	31	0
6	YJ	1250	0	1212	33	0
6	YL	1250	0	1211	43	0
6	YM	1250	0	1218	31	0
6	Z1	1250	0	1212	24	0
6	Z7	1250	0	1215	17	0
6	Z9	1250	0	1215	16	0
6	ZF	1250	0	1219	26	0
6	ZI	1250	0	1219	22	0
6	ZK	1250	0	1212	24	0
6	aB	1250	0	1218	30	0
6	aJ	1250	0	1213	39	0
6	aL	1250	0	1213	40	0
6	aM	1250	0	1218	29	0
6	b1	1250	0	1213	36	0
6	b7	1250	0	1215	17	0
6	b9	1250	0	1215	17	0
6	bF	1250	0	1219	67	0
6	bI	1250	0	1219	66	0
6	bK	1250	0	1213	34	0
6	cJ	1250	0	1213	49	0
6	cL	1250	0	1215	45	0
6	d1	1250	0	1214	29	0
6	d7	1250	0	1215	17	0
6	d9	1250	0	1215	17	0
6	dB	1250	0	1219	27	0
6	dF	1250	0	1217	11	0
6	dI	1250	0	1217	12	0
6	dK	1250	0	1214	28	0
6	dM	1250	0	1219	25	0
6	eJ	1250	0	1212	30	0
6	eL	1250	0	1212	33	0
6	f1	1250	0	1212	36	0
6	f7	1250	0	1215	16	0
6	f9	1250	0	1215	17	0
6	fB	1250	0	1218	39	0
6	fF	1250	0	1218	19	0
6	fI	1250	0	1218	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	fK	1250	0	1212	27	0
6	fM	1250	0	1218	37	0
6	gJ	1250	0	1209	46	0
6	gL	1250	0	1212	118	0
6	h1	1250	0	1214	51	0
6	h7	1250	0	1215	19	0
6	h9	1250	0	1215	18	0
6	hB	1250	0	1219	26	0
6	hF	1250	0	1218	25	0
6	hI	1250	0	1218	22	0
6	hK	1250	0	1214	40	0
6	hM	1250	0	1219	33	0
6	iJ	1250	0	1213	44	0
6	iL	1250	0	1213	46	0
6	j1	1250	0	1213	31	0
6	j7	1250	0	1215	20	0
6	j9	1250	0	1215	19	0
6	jB	1250	0	1221	45	0
6	jF	1250	0	1219	17	0
6	jI	1250	0	1219	16	0
6	jK	1250	0	1213	30	0
6	jM	1250	0	1221	44	0
6	kJ	1250	0	1213	77	0
6	kL	1250	0	1213	65	0
6	l1	1250	0	1212	39	0
6	l7	1250	0	1215	32	0
6	l9	1250	0	1213	24	0
6	lB	1250	0	1218	68	0
6	lF	1250	0	1217	28	0
6	lI	1250	0	1217	25	0
6	lK	1250	0	1212	36	0
6	lM	1250	0	1218	45	0
6	mJ	1250	0	1214	103	0
6	mL	1250	0	1214	89	0
6	oJ	1250	0	1213	77	0
6	oL	1250	0	1213	78	0
6	qJ	1250	0	1214	60	0
6	qL	1250	0	1214	40	0
6	sJ	1250	0	1212	58	0
6	sL	1250	0	1212	32	0
6	uJ	1250	0	1212	49	0
6	uL	1250	0	1212	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A5	1294	0	1295	36	0
7	A8	1294	0	1295	37	0
7	B3	1294	0	1295	40	0
7	B5	1065	0	1059	72	0
7	B8	1065	0	1059	65	0
7	BA	1294	0	1293	44	0
7	BC	1294	0	1295	51	0
7	BE	1294	0	1295	50	0
7	BG	1294	0	1296	96	0
7	BJ	1294	0	1292	30	0
7	BL	1294	0	1292	32	0
7	BN	1294	0	1293	43	0
7	BO	1294	0	1295	42	0
7	BQ	1294	0	1296	101	0
7	C4	1294	0	1295	184	0
7	C5	1294	0	1295	46	0
7	C8	1294	0	1295	45	0
7	CD	1294	0	1295	174	0
7	D3	1294	0	1295	44	0
7	DA	1294	0	1293	63	0
7	DB	1300	0	1303	32	0
7	DC	1294	0	1295	51	0
7	DE	1294	0	1295	55	0
7	DG	1294	0	1296	64	0
7	DJ	1294	0	1292	28	0
7	DL	1294	0	1292	29	0
7	DM	1300	0	1303	31	0
7	DN	1294	0	1293	68	0
7	DO	1294	0	1295	48	0
7	DQ	1294	0	1296	96	0
7	E4	1294	0	1294	180	0
7	ED	1294	0	1294	154	0
7	F3	1294	0	1295	23	0
7	F5	1065	0	1059	20	0
7	F8	1065	0	1059	21	0
7	FA	1294	0	1293	59	0
7	FB	1297	0	1297	40	0
7	FC	1294	0	1295	27	0
7	FE	1294	0	1295	25	0
7	FG	1294	0	1295	171	0
7	FJ	1294	0	1293	78	0
7	FL	1294	0	1293	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	FM	1297	0	1298	38	0
7	FN	1294	0	1293	68	0
7	FO	1294	0	1295	22	0
7	FQ	1294	0	1295	123	0
7	G4	1294	0	1294	206	0
7	G5	1065	0	1059	45	0
7	G8	1065	0	1059	51	0
7	GD	1294	0	1294	190	0
7	H3	1294	0	1295	16	0
7	H5	1065	0	1059	20	0
7	H8	1065	0	1059	19	0
7	HA	1297	0	1298	43	0
7	HB	1300	0	1301	23	0
7	HC	1294	0	1295	27	0
7	HE	1294	0	1295	30	0
7	HG	1297	0	1299	109	0
7	HJ	1294	0	1295	77	0
7	HL	1294	0	1295	77	0
7	HM	1300	0	1301	22	0
7	HN	1297	0	1298	46	0
7	HO	1294	0	1295	14	0
7	HQ	1297	0	1300	106	0
7	I4	1297	0	1300	197	0
7	I5	1294	0	1293	221	0
7	I8	1294	0	1293	234	0
7	ID	1297	0	1300	183	0
7	J3	1294	0	1295	25	0
7	JA	1294	0	1293	52	0
7	JB	1300	0	1303	47	0
7	JC	1294	0	1295	42	0
7	JE	1294	0	1295	43	0
7	JG	1294	0	1294	60	0
7	JJ	1294	0	1292	28	0
7	JL	1294	0	1292	32	0
7	JM	1300	0	1303	46	0
7	JN	1294	0	1293	49	0
7	JO	1294	0	1295	27	0
7	JQ	1294	0	1294	65	0
7	K4	1294	0	1294	155	0
7	K5	1294	0	1296	79	0
7	K8	1294	0	1296	98	0
7	KD	1294	0	1295	158	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	L3	1294	0	1294	28	0
7	L5	1065	0	1059	73	0
7	L8	1065	0	1059	70	0
7	LA	1294	0	1293	72	0
7	LB	1300	0	1303	29	0
7	LC	1294	0	1295	80	0
7	LE	1294	0	1294	74	0
7	LG	1294	0	1294	145	0
7	LJ	1294	0	1292	64	0
7	LL	1294	0	1292	64	0
7	LM	1300	0	1303	33	0
7	LN	1294	0	1293	77	0
7	LO	1294	0	1294	29	0
7	LQ	1294	0	1296	104	0
7	M3	1065	0	1059	26	0
7	M4	1294	0	1295	207	0
7	MD	1294	0	1294	189	0
7	MO	1065	0	1059	25	0
7	N2	1294	0	1294	49	0
7	N3	1065	0	1060	54	0
7	NB	1300	0	1303	85	0
7	NJ	1294	0	1291	55	0
7	NL	1294	0	1291	54	0
7	NM	1300	0	1303	93	0
7	NO	1065	0	1060	51	0
7	NR	1294	0	1294	75	0
7	P1	1294	0	1294	32	0
7	P2	1297	0	1299	88	0
7	P7	1294	0	1290	9	0
7	P9	1294	0	1290	8	0
7	PB	1294	0	1294	30	0
7	PF	1294	0	1293	44	0
7	PI	1294	0	1293	50	0
7	PJ	1297	0	1297	43	0
7	PK	1294	0	1294	33	0
7	PL	1297	0	1297	46	0
7	PM	1294	0	1294	29	0
7	PR	1297	0	1299	92	0
7	R1	1294	0	1294	20	0
7	R2	1294	0	1294	58	0
7	R7	1294	0	1290	13	0
7	R9	1294	0	1290	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	RB	1297	0	1300	55	0
7	RF	1294	0	1293	21	0
7	RI	1294	0	1293	21	0
7	RJ	1294	0	1292	36	0
7	RK	1294	0	1294	21	0
7	RL	1294	0	1292	37	0
7	RM	1297	0	1300	52	0
7	RR	1294	0	1294	58	0
7	T1	1294	0	1294	40	0
7	T2	1294	0	1293	106	0
7	T7	1294	0	1290	12	0
7	T9	1294	0	1290	12	0
7	TB	1297	0	1298	28	0
7	TF	1294	0	1293	42	0
7	TI	1294	0	1293	52	0
7	TJ	1294	0	1292	50	0
7	TK	1294	0	1294	42	0
7	TL	1294	0	1292	51	0
7	TM	1297	0	1298	25	0
7	TR	1294	0	1294	139	0
7	V1	1300	0	1304	37	0
7	V2	1294	0	1294	94	0
7	V7	1294	0	1290	35	0
7	V9	1294	0	1290	38	0
7	VB	1300	0	1303	32	0
7	VF	1300	0	1303	22	0
7	VI	1300	0	1303	20	0
7	VJ	1294	0	1292	39	0
7	VK	1300	0	1304	50	0
7	VL	1294	0	1292	40	0
7	VM	1300	0	1303	32	0
7	VR	1294	0	1296	81	0
7	X2	1294	0	1294	88	0
7	XB	1300	0	1303	26	0
7	XJ	1297	0	1297	29	0
7	XL	1297	0	1297	29	0
7	XM	1300	0	1303	22	0
7	XR	1294	0	1294	71	0
7	Y1	1294	0	1294	18	0
7	Y7	1294	0	1290	31	0
7	Y9	1294	0	1290	28	0
7	YF	1294	0	1293	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	YI	1294	0	1293	25	0
7	YK	1294	0	1294	17	0
7	ZB	1300	0	1303	38	0
7	ZJ	1294	0	1290	32	0
7	ZL	1294	0	1292	41	0
7	ZM	1300	0	1303	38	0
7	a1	1294	0	1294	18	0
7	a7	1294	0	1290	68	0
7	a9	1294	0	1290	87	0
7	aF	1294	0	1291	35	0
7	aI	1294	0	1293	26	0
7	aK	1294	0	1294	17	0
7	bJ	1294	0	1292	23	0
7	bL	1294	0	1292	27	0
7	c1	1294	0	1294	20	0
7	c7	1294	0	1290	18	0
7	c9	1294	0	1290	20	0
7	cB	1297	0	1298	20	0
7	cF	1294	0	1293	29	0
7	cI	1294	0	1293	29	0
7	cK	1294	0	1294	19	0
7	cM	1297	0	1298	20	0
7	dJ	1294	0	1292	24	0
7	dL	1294	0	1292	27	0
7	e1	1294	0	1294	23	0
7	e7	1294	0	1290	8	0
7	e9	1294	0	1290	11	0
7	eB	1300	0	1303	27	0
7	eF	1294	0	1293	20	0
7	eI	1294	0	1293	24	0
7	eK	1294	0	1294	21	0
7	eM	1300	0	1303	27	0
7	fJ	1294	0	1292	25	0
7	fL	1294	0	1292	30	0
7	g1	1294	0	1294	35	0
7	g7	1294	0	1290	11	0
7	g9	1294	0	1290	10	0
7	gB	1300	0	1303	51	0
7	gF	1294	0	1293	31	0
7	gI	1294	0	1293	30	0
7	gK	1294	0	1294	47	0
7	gM	1300	0	1303	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	hJ	1294	0	1292	25	0
7	hL	1294	0	1292	23	0
7	iI	1297	0	1299	17	0
7	i7	1297	0	1295	23	0
7	i9	1297	0	1295	22	0
7	iB	1300	0	1303	30	0
7	iF	1297	0	1298	37	0
7	iI	1297	0	1298	35	0
7	iK	1297	0	1299	21	0
7	iM	1300	0	1303	24	0
7	jJ	1297	0	1297	28	0
7	jL	1297	0	1297	25	0
7	k1	1294	0	1294	22	0
7	k7	1294	0	1290	50	0
7	k9	1294	0	1290	47	0
7	kB	1300	0	1303	39	0
7	kF	1294	0	1293	31	0
7	kI	1294	0	1293	35	0
7	kK	1294	0	1294	23	0
7	kM	1300	0	1303	43	0
7	lJ	1294	0	1292	47	0
7	lL	1294	0	1292	35	0
7	m1	1294	0	1294	19	0
7	m7	1294	0	1290	30	0
7	m9	1294	0	1290	32	0
7	mB	1300	0	1303	25	0
7	mF	1294	0	1293	24	0
7	mI	1294	0	1293	25	0
7	mK	1294	0	1294	16	0
7	mM	1300	0	1303	23	0
7	nJ	1294	0	1292	91	0
7	nL	1294	0	1292	64	0
7	pJ	1294	0	1292	51	0
7	pL	1294	0	1292	59	0
7	rJ	1294	0	1292	29	0
7	rL	1294	0	1292	34	0
7	tJ	1294	0	1292	57	0
7	tL	1294	0	1292	41	0
7	vJ	1294	0	1292	37	0
7	vL	1294	0	1292	48	0
8	e2	1932	0	1882	222	0
8	eR	1932	0	1885	302	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	O3	2873	0	2836	75	0
9	OO	2873	0	2836	81	0
10	d4	2293	0	2263	273	0
10	dD	2293	0	2264	285	0
11	D5	654	0	652	40	0
11	D8	654	0	652	38	0
12	E5	1580	0	1612	188	0
12	E8	1580	0	1613	194	0
13	k6	2182	0	2196	326	0
13	kH	2182	0	2196	335	0
14	MA	1851	0	1816	160	0
14	MG	1851	0	1805	286	0
14	MN	1851	0	1817	205	0
14	MQ	1851	0	1806	209	0
15	bB	2961	0	2910	276	0
15	bM	2961	0	2910	281	0
16	AB	1814	0	1791	29	0
16	AM	1814	0	1791	31	0
16	wJ	1814	0	1795	81	0
16	wL	1814	0	1794	177	0
16	xJ	1814	0	1792	264	0
16	xL	1814	0	1791	203	0
17	BB	1902	0	1898	68	0
17	BM	1902	0	1898	67	0
17	yJ	1902	0	1899	37	0
17	yL	1902	0	1899	38	0
18	MC	2196	0	2151	408	0
18	ME	2196	0	2152	521	0
19	zJ	2901	0	2855	208	0
19	zL	2901	0	2855	216	0
20	AP	1225	0	1228	45	0
20	CP	1225	0	1228	45	0
20	EP	1225	0	1228	66	0
20	GP	1225	0	1228	62	0
20	JP	1225	0	1228	85	0
20	KP	1225	0	1228	100	0
20	NP	1225	0	1228	99	0
20	PP	1225	0	1226	99	0
20	RP	1225	0	1228	51	0
20	TP	1225	0	1228	83	0
20	cP	1225	0	1228	50	0
20	eP	1225	0	1228	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
20	gP	1225	0	1228	71	0
20	iP	1225	0	1228	66	0
20	lP	1225	0	1228	81	0
20	mP	1225	0	1228	97	0
20	pP	1225	0	1228	93	0
20	rP	1225	0	1226	105	0
20	tP	1225	0	1228	59	0
20	vP	1225	0	1228	103	0
21	BP	1220	0	1224	46	0
21	DP	1220	0	1224	70	0
21	FP	1220	0	1224	55	0
21	HP	1220	0	1224	51	0
21	IP	1220	0	1224	44	0
21	LP	1220	0	1223	126	0
21	MP	1220	0	1223	91	0
21	OP	1220	0	1224	58	0
21	QP	1220	0	1223	73	0
21	SP	1220	0	1224	68	0
21	UP	1220	0	1224	67	0
21	dP	1220	0	1224	89	0
21	fP	1220	0	1224	51	0
21	hP	1220	0	1224	54	0
21	jP	1220	0	1223	54	0
21	kP	1220	0	1223	45	0
21	nP	1220	0	1224	143	0
21	oP	1220	0	1223	104	0
21	qP	1220	0	1223	60	0
21	sP	1220	0	1223	84	0
21	uP	1220	0	1224	63	0
21	wP	1220	0	1224	62	0
22	VP	1260	0	1272	67	0
22	xP	1260	0	1272	86	0
23	WP	1376	0	1384	75	0
23	yP	1376	0	1384	75	0
24	XP	720	0	723	51	0
24	zP	720	0	723	58	0
25	1P	6756	0	6843	305	0
25	YP	6756	0	6843	321	0
26	2P	1004	0	998	91	0
26	ZP	1004	0	998	99	0
27	3P	1897	0	1835	218	0
27	aP	1897	0	1834	210	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	4P	1537	0	1566	170	0
28	bP	1537	0	1565	184	0
29	A1	129	0	104	5	0
29	A3	86	0	71	4	0
29	A5	129	0	105	9	0
29	A7	129	0	106	6	0
29	A8	129	0	105	8	0
29	A9	129	0	106	6	0
29	AA	86	0	70	4	0
29	AB	129	0	104	3	0
29	AC	129	0	104	2	0
29	AE	129	0	104	2	0
29	AF	129	0	105	0	0
29	AG	86	0	71	6	0
29	AI	129	0	105	0	0
29	AJ	129	0	105	38	0
29	AK	129	0	104	4	0
29	AL	129	0	105	39	0
29	AM	129	0	104	2	0
29	AN	86	0	70	4	0
29	AO	86	0	71	4	0
29	AQ	86	0	71	5	0
29	B3	129	0	103	7	0
29	B4	86	0	70	6	0
29	B5	129	0	105	4	0
29	B8	129	0	105	5	0
29	BA	129	0	104	8	0
29	BB	43	0	34	25	0
29	BC	129	0	102	4	0
29	BD	86	0	70	7	0
29	BE	129	0	102	4	0
29	BG	129	0	105	69	0
29	BJ	129	0	102	3	0
29	BL	129	0	102	3	0
29	BM	43	0	34	25	0
29	BN	129	0	104	10	0
29	BO	129	0	103	9	0
29	BQ	129	0	102	53	0
29	C3	86	0	71	1	0
29	C4	129	0	105	64	0
29	C5	129	0	105	13	0
29	C8	129	0	105	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	CA	86	0	70	4	0
29	CB	86	0	70	6	0
29	CC	86	0	71	2	0
29	CD	129	0	107	53	0
29	CE	86	0	71	3	0
29	CG	86	0	71	6	0
29	CJ	86	0	70	9	0
29	CL	86	0	70	8	0
29	CM	86	0	70	6	0
29	CN	86	0	70	3	0
29	CO	86	0	71	1	0
29	CQ	86	0	71	6	0
29	D1	43	0	37	12	0
29	D3	129	0	106	32	0
29	D4	86	0	70	12	0
29	D7	43	0	36	7	0
29	D9	43	0	36	7	0
29	DA	129	0	104	10	0
29	DB	129	0	102	7	0
29	DC	86	0	69	2	0
29	DD	86	0	70	11	0
29	DE	86	0	69	2	0
29	DF	43	0	35	14	0
29	DG	129	0	107	16	0
29	DI	43	0	35	14	0
29	DJ	86	0	68	1	0
29	DK	43	0	37	12	0
29	DL	86	0	68	2	0
29	DM	129	0	102	8	0
29	DN	129	0	104	9	0
29	DO	129	0	105	33	0
29	DQ	129	0	105	47	0
29	E3	86	0	71	2	0
29	E4	129	0	104	39	0
29	EA	86	0	70	4	0
29	EB	86	0	70	6	0
29	EC	86	0	71	3	0
29	ED	86	0	70	19	0
29	EE	86	0	71	3	0
29	EG	86	0	71	6	0
29	EJ	86	0	70	3	0
29	EL	86	0	70	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	EM	86	0	70	4	0
29	EN	86	0	70	2	0
29	EO	86	0	71	2	0
29	EQ	86	0	71	6	0
29	F1	43	0	36	7	0
29	F3	129	0	101	1	0
29	F4	86	0	70	14	0
29	F5	129	0	105	5	0
29	F7	43	0	36	7	0
29	F8	129	0	105	4	0
29	F9	43	0	36	8	0
29	FA	129	0	104	24	0
29	FB	129	0	100	5	0
29	FC	129	0	98	3	0
29	FD	86	0	70	13	0
29	FE	129	0	98	3	0
29	FF	43	0	35	17	0
29	FG	129	0	101	114	0
29	FI	43	0	35	16	0
29	FJ	129	0	102	13	0
29	FK	43	0	36	7	0
29	FL	129	0	102	14	0
29	FM	129	0	100	3	0
29	FN	129	0	104	28	0
29	FO	129	0	101	2	0
29	FQ	129	0	106	94	0
29	G3	86	0	71	1	0
29	G4	129	0	107	55	0
29	G5	129	0	104	4	0
29	G8	129	0	104	5	0
29	GA	86	0	70	3	0
29	GB	86	0	71	11	0
29	GC	86	0	71	1	0
29	GD	129	0	107	47	0
29	GE	86	0	71	1	0
29	GG	86	0	71	5	0
29	GJ	86	0	70	19	0
29	GL	86	0	70	18	0
29	GM	86	0	71	11	0
29	GN	86	0	70	3	0
29	GO	86	0	71	1	0
29	GQ	86	0	71	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	H1	43	0	36	31	0
29	H3	129	0	101	4	0
29	H4	86	0	70	29	0
29	H5	129	0	104	6	0
29	H7	43	0	36	8	0
29	H8	129	0	104	5	0
29	H9	43	0	36	8	0
29	HA	129	0	103	9	0
29	HB	129	0	102	5	0
29	HC	129	0	102	4	0
29	HD	86	0	70	29	0
29	HE	129	0	102	6	0
29	HF	43	0	35	13	0
29	HG	129	0	102	54	0
29	HI	43	0	35	13	0
29	HJ	86	0	69	2	0
29	HK	43	0	36	33	0
29	HL	86	0	69	1	0
29	HM	129	0	102	4	0
29	HN	129	0	104	8	0
29	HO	129	0	101	4	0
29	HQ	129	0	104	64	0
29	I3	129	0	107	10	0
29	I4	129	0	104	67	0
29	I5	129	0	107	28	0
29	I8	129	0	107	26	0
29	IA	86	0	70	4	0
29	IB	86	0	70	4	0
29	IC	86	0	71	0	0
29	ID	129	0	105	49	0
29	IE	86	0	71	1	0
29	IG	86	0	71	5	0
29	IJ	129	0	105	27	0
29	IL	129	0	105	26	0
29	IM	86	0	70	4	0
29	IN	86	0	70	3	0
29	IO	129	0	107	10	0
29	IQ	86	0	71	5	0
29	J1	43	0	36	6	0
29	J3	129	0	103	3	0
29	J4	86	0	70	28	0
29	J5	86	0	69	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	J7	43	0	36	8	0
29	J8	86	0	69	3	0
29	J9	43	0	36	7	0
29	JA	129	0	104	14	0
29	JB	129	0	103	7	0
29	JC	86	0	69	1	0
29	JD	86	0	70	21	0
29	JE	86	0	69	2	0
29	JF	43	0	35	15	0
29	JG	129	0	103	9	0
29	JI	43	0	35	15	0
29	JJ	129	0	103	3	0
29	JK	43	0	36	5	0
29	JL	129	0	103	3	0
29	JM	129	0	103	8	0
29	JN	129	0	104	7	0
29	JO	129	0	103	3	0
29	JQ	129	0	105	11	0
29	K3	86	0	71	6	0
29	K4	129	0	105	38	0
29	K5	129	0	105	2	0
29	K8	129	0	105	3	0
29	KA	86	0	70	5	0
29	KB	129	0	105	7	0
29	KC	129	0	104	5	0
29	KD	129	0	107	44	0
29	KE	129	0	104	5	0
29	KG	86	0	71	7	0
29	KJ	86	0	70	16	0
29	KL	86	0	70	17	0
29	KM	129	0	105	7	0
29	KN	86	0	70	6	0
29	KO	86	0	71	6	0
29	KQ	86	0	71	7	0
29	L1	43	0	36	20	0
29	L3	86	0	69	1	0
29	L4	86	0	70	11	0
29	L5	129	0	104	16	0
29	L7	43	0	36	7	0
29	L8	129	0	104	15	0
29	L9	43	0	36	8	0
29	LA	129	0	104	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	LB	129	0	103	4	0
29	LC	129	0	102	8	0
29	LD	86	0	70	11	0
29	LE	129	0	102	12	0
29	LF	43	0	36	23	0
29	LG	129	0	101	66	0
29	LI	43	0	36	22	0
29	LJ	86	0	68	6	0
29	LK	43	0	36	19	0
29	LL	86	0	68	6	0
29	LM	129	0	103	5	0
29	LN	129	0	104	8	0
29	LO	86	0	69	1	0
29	LQ	86	0	72	39	0
29	M2	86	0	71	65	0
29	M3	129	0	103	3	0
29	M4	129	0	105	36	0
29	MA	129	0	101	4	0
29	MB	86	0	70	7	0
29	MD	129	0	104	34	0
29	MG	129	0	102	16	0
29	MJ	86	0	70	4	0
29	ML	86	0	70	5	0
29	MM	86	0	70	7	0
29	MN	129	0	101	4	0
29	MO	129	0	103	4	0
29	MQ	215	0	167	22	0
29	MR	86	0	68	47	0
29	N1	43	0	36	13	0
29	N2	129	0	102	8	0
29	N3	129	0	103	4	0
29	N7	43	0	36	8	0
29	N9	43	0	36	10	0
29	NB	86	0	67	5	0
29	NF	43	0	36	16	0
29	NI	43	0	36	16	0
29	NJ	129	0	103	1	0
29	NK	43	0	36	14	0
29	NL	129	0	103	2	0
29	NM	86	0	67	5	0
29	NO	129	0	103	3	0
29	NR	129	0	102	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	O1	86	0	68	2	0
29	O2	86	0	69	25	0
29	O7	86	0	67	2	0
29	O9	86	0	67	1	0
29	OB	86	0	70	8	0
29	OF	129	0	106	1	0
29	OI	129	0	106	1	0
29	OJ	86	0	70	4	0
29	OK	86	0	68	2	0
29	OL	86	0	70	3	0
29	OM	86	0	70	8	0
29	OR	86	0	70	25	0
29	P1	129	0	100	3	0
29	P2	86	0	68	8	0
29	P7	129	0	103	1	0
29	P9	129	0	103	3	0
29	PB	86	0	69	15	0
29	PF	129	0	105	0	0
29	PI	129	0	105	0	0
29	PJ	129	0	103	2	0
29	PK	129	0	100	2	0
29	PL	129	0	103	12	0
29	PM	86	0	69	15	0
29	PR	86	0	68	8	0
29	Q1	86	0	68	2	0
29	Q2	86	0	71	20	0
29	Q7	86	0	67	8	0
29	Q9	86	0	67	7	0
29	QB	129	0	105	21	0
29	QF	86	0	71	1	0
29	QI	86	0	71	1	0
29	QJ	86	0	70	9	0
29	QK	86	0	68	3	0
29	QL	86	0	70	9	0
29	QM	129	0	105	22	0
29	QR	86	0	72	42	0
29	R1	129	0	102	1	0
29	R2	129	0	103	9	0
29	R7	129	0	101	2	0
29	R9	129	0	101	2	0
29	RB	129	0	103	17	0
29	RF	86	0	70	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	RI	86	0	70	0	0
29	RJ	129	0	103	4	0
29	RK	129	0	102	1	0
29	RL	129	0	103	8	0
29	RM	129	0	103	18	0
29	RR	129	0	103	11	0
29	S1	86	0	68	3	0
29	S2	86	0	70	26	0
29	S7	86	0	67	2	0
29	S9	86	0	67	2	0
29	SB	86	0	68	0	0
29	SF	86	0	70	29	0
29	SI	86	0	68	36	0
29	SJ	86	0	70	3	0
29	SK	86	0	68	3	0
29	SL	86	0	70	4	0
29	SM	86	0	68	0	0
29	SR	86	0	71	27	0
29	T1	86	0	68	2	0
29	T2	129	0	104	12	0
29	T7	129	0	104	4	0
29	T9	129	0	104	4	0
29	TB	129	0	102	5	0
29	TF	86	0	70	14	0
29	TI	86	0	70	10	0
29	TJ	129	0	103	3	0
29	TK	86	0	68	2	0
29	TL	129	0	103	2	0
29	TM	129	0	102	4	0
29	TR	129	0	104	19	0
29	U1	129	0	101	3	0
29	U2	86	0	71	42	0
29	U7	86	0	67	3	0
29	U9	86	0	67	2	0
29	UB	86	0	70	8	0
29	UF	129	0	106	1	0
29	UI	129	0	106	1	0
29	UJ	86	0	72	6	0
29	UK	129	0	101	3	0
29	UL	86	0	72	5	0
29	UM	43	0	35	0	0
29	UR	86	0	69	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	V1	129	0	101	2	0
29	V2	129	0	103	35	0
29	V7	129	0	104	9	0
29	V9	129	0	104	8	0
29	VB	129	0	102	8	0
29	VF	129	0	105	0	0
29	VI	129	0	105	0	0
29	VJ	86	0	68	1	0
29	VK	129	0	101	2	0
29	VL	86	0	68	1	0
29	VM	129	0	102	7	0
29	VR	129	0	105	27	0
29	W1	86	0	68	9	0
29	W2	86	0	71	36	0
29	W7	86	0	69	12	0
29	W9	86	0	69	21	0
29	WB	86	0	70	8	0
29	WF	86	0	71	3	0
29	WI	86	0	71	1	0
29	WJ	129	0	105	16	0
29	WK	86	0	68	10	0
29	WL	129	0	105	18	0
29	WM	86	0	70	8	0
29	WR	86	0	71	40	0
29	X2	86	0	68	7	0
29	XB	86	0	67	6	0
29	XJ	129	0	103	3	0
29	XL	129	0	103	3	0
29	XM	86	0	67	5	0
29	XR	129	0	103	17	0
29	Y1	86	0	68	3	0
29	Y7	129	0	104	3	0
29	Y9	129	0	104	3	0
29	YB	129	0	105	9	0
29	YF	129	0	105	0	0
29	YI	129	0	105	0	0
29	YJ	86	0	70	2	0
29	YK	86	0	68	3	0
29	YL	86	0	70	4	0
29	YM	129	0	105	11	0
29	Z1	129	0	101	4	0
29	Z7	86	0	67	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	Z9	86	0	67	3	0
29	ZB	129	0	103	10	0
29	ZF	86	0	71	1	0
29	ZI	86	0	71	2	0
29	ZJ	129	0	103	2	0
29	ZK	129	0	101	4	0
29	ZL	129	0	103	2	0
29	ZM	129	0	103	9	0
29	a1	129	0	101	1	0
29	a7	129	0	103	2	0
29	a9	129	0	104	4	0
29	aB	129	0	105	9	0
29	aF	129	0	105	0	0
29	aI	129	0	105	0	0
29	aJ	86	0	70	4	0
29	aK	129	0	101	2	0
29	aL	86	0	70	3	0
29	aM	129	0	105	9	0
29	b1	86	0	68	2	0
29	b7	86	0	67	2	0
29	b9	86	0	67	2	0
29	bF	86	0	71	1	0
29	bI	86	0	71	1	0
29	bJ	129	0	103	5	0
29	bK	86	0	68	3	0
29	bL	129	0	103	14	0
29	c1	129	0	101	2	0
29	c7	129	0	103	1	0
29	c9	129	0	103	2	0
29	cB	129	0	102	4	0
29	cF	86	0	70	1	0
29	cI	86	0	70	1	0
29	cJ	86	0	70	22	0
29	cK	129	0	101	1	0
29	cL	86	0	70	29	0
29	cM	129	0	102	4	0
29	d1	86	0	68	3	0
29	d7	86	0	67	2	0
29	d9	86	0	67	3	0
29	dB	86	0	70	4	0
29	dD	43	0	35	7	0
29	dF	129	0	106	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	dI	129	0	106	1	0
29	dJ	129	0	103	4	0
29	dK	86	0	68	2	0
29	dL	129	0	103	3	0
29	dM	86	0	70	2	0
29	e1	129	0	101	1	0
29	e2	86	0	72	44	0
29	e7	129	0	103	1	0
29	e9	129	0	103	1	0
29	eB	86	0	67	5	0
29	eF	129	0	105	1	0
29	eI	129	0	105	1	0
29	eJ	86	0	70	4	0
29	eK	129	0	101	1	0
29	eL	86	0	70	4	0
29	eM	86	0	67	3	0
29	eR	43	0	38	27	0
29	f1	86	0	68	2	0
29	f7	86	0	67	2	0
29	f9	86	0	67	3	0
29	fB	86	0	70	8	0
29	fF	86	0	71	1	0
29	fI	86	0	71	1	0
29	fJ	129	0	103	3	0
29	fK	86	0	68	2	0
29	fL	129	0	103	7	0
29	fM	86	0	70	8	0
29	g1	129	0	101	3	0
29	g7	129	0	104	2	0
29	g9	129	0	104	3	0
29	gB	129	0	104	12	0
29	gF	129	0	105	0	0
29	gI	129	0	105	0	0
29	gJ	86	0	70	5	0
29	gK	129	0	101	6	0
29	gL	86	0	70	4	0
29	gM	129	0	104	13	0
29	h1	86	0	68	3	0
29	h7	86	0	67	2	0
29	h9	86	0	67	1	0
29	hB	86	0	70	2	0
29	hF	86	0	71	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	hI	86	0	71	1	0
29	hJ	129	0	103	2	0
29	hK	86	0	68	3	0
29	hL	129	0	103	2	0
29	hM	86	0	70	2	0
29	iI	129	0	101	1	0
29	i7	129	0	103	4	0
29	i9	129	0	103	4	0
29	iB	129	0	102	7	0
29	iF	129	0	105	0	0
29	iI	129	0	105	0	0
29	iJ	86	0	70	4	0
29	iK	129	0	101	1	0
29	iL	86	0	70	5	0
29	iM	129	0	102	6	0
29	j1	129	0	101	2	0
29	j7	86	0	67	2	0
29	j9	86	0	67	2	0
29	jB	86	0	70	10	0
29	jF	86	0	71	1	0
29	jI	86	0	71	1	0
29	jJ	129	0	103	2	0
29	jK	129	0	101	2	0
29	jL	129	0	103	4	0
29	jM	86	0	70	8	0
29	k1	129	0	101	1	0
29	k7	129	0	104	2	0
29	k9	129	0	104	2	0
29	kB	129	0	105	16	0
29	kF	129	0	105	34	0
29	kI	129	0	105	33	0
29	kJ	86	0	70	8	0
29	kK	129	0	101	1	0
29	kL	86	0	70	10	0
29	kM	129	0	105	17	0
29	l1	86	0	68	2	0
29	l7	86	0	67	14	0
29	l9	86	0	67	8	0
29	lB	86	0	69	5	0
29	lF	86	0	71	1	0
29	lI	86	0	71	1	0
29	lJ	129	0	103	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	lK	86	0	68	2	0
29	lL	129	0	103	8	0
29	lM	86	0	69	5	0
29	m1	86	0	68	1	0
29	m7	129	0	104	2	0
29	m9	129	0	104	2	0
29	mB	129	0	100	6	0
29	mF	129	0	105	1	0
29	mI	129	0	105	1	0
29	mJ	86	0	70	5	0
29	mK	86	0	68	1	0
29	mL	86	0	70	4	0
29	mM	129	0	100	11	0
29	nJ	129	0	103	17	0
29	nL	129	0	103	8	0
29	oJ	86	0	70	5	0
29	oL	86	0	70	3	0
29	pJ	129	0	103	14	0
29	pL	129	0	103	5	0
29	qJ	86	0	70	5	0
29	qL	86	0	70	4	0
29	rJ	129	0	103	8	0
29	rL	129	0	103	8	0
29	sJ	129	0	105	6	0
29	sL	129	0	105	5	0
29	tJ	86	0	68	16	0
29	tL	86	0	68	1	0
29	uJ	129	0	105	5	0
29	uL	129	0	105	6	0
29	vJ	86	0	68	4	0
29	vL	86	0	68	4	0
29	wJ	129	0	108	6	0
29	wL	129	0	108	8	0
29	xJ	129	0	108	11	0
29	xL	129	0	108	10	0
29	yJ	43	0	35	2	0
29	yL	43	0	35	2	0
29	zJ	43	0	36	13	0
29	zL	43	0	36	10	0
30	A1	86	0	72	7	0
30	A7	86	0	74	0	0
30	A9	86	0	74	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	AB	86	0	74	4	0
30	AF	86	0	73	1	0
30	AI	86	0	73	1	0
30	AK	86	0	72	8	0
30	AM	86	0	74	2	0
30	BB	43	0	36	0	0
30	BM	43	0	36	0	0
30	MA	86	0	72	5	0
30	MG	86	0	71	23	0
30	MN	86	0	72	5	0
30	MQ	86	0	71	19	0
30	QB	43	0	36	0	0
30	QM	43	0	36	0	0
30	wJ	86	0	78	12	0
30	wL	86	0	78	12	0
30	xJ	86	0	76	7	0
30	xL	86	0	76	5	0
30	yJ	86	0	76	15	0
30	yL	86	0	76	17	0
31	1P	86	0	72	3	0
31	AP	43	0	36	0	0
31	BP	43	0	36	0	0
31	C1	43	0	34	3	0
31	C7	43	0	34	2	0
31	C9	43	0	34	2	0
31	CF	43	0	34	0	0
31	CI	43	0	34	0	0
31	CK	43	0	34	3	0
31	CP	43	0	36	1	0
31	D1	86	0	70	3	0
31	D7	43	0	36	2	0
31	D9	43	0	36	2	0
31	DF	43	0	35	0	0
31	DI	43	0	35	0	0
31	DK	43	0	36	1	0
31	DP	43	0	36	2	0
31	E1	43	0	34	2	0
31	E7	43	0	34	14	0
31	E9	43	0	34	14	0
31	EF	43	0	34	0	0
31	EI	43	0	34	0	0
31	EK	43	0	34	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	EP	43	0	36	0	0
31	F1	43	0	36	0	0
31	F7	43	0	36	1	0
31	F9	43	0	36	1	0
31	FF	43	0	35	2	0
31	FI	43	0	35	2	0
31	FK	43	0	36	1	0
31	FP	43	0	36	0	0
31	G7	43	0	34	2	0
31	G9	43	0	34	2	0
31	GF	43	0	34	0	0
31	GI	43	0	34	0	0
31	GK	43	0	34	2	0
31	GP	43	0	36	0	0
31	H1	43	0	36	0	0
31	H7	43	0	36	7	0
31	H9	43	0	36	6	0
31	HF	43	0	35	0	0
31	HI	43	0	35	0	0
31	HK	43	0	36	0	0
31	HP	43	0	36	1	0
31	I1	43	0	34	1	0
31	I7	43	0	34	4	0
31	I9	43	0	34	4	0
31	IF	43	0	34	0	0
31	II	43	0	34	0	0
31	IK	43	0	34	1	0
31	IP	43	0	36	0	0
31	J1	43	0	36	0	0
31	J7	43	0	36	6	0
31	J9	43	0	36	7	0
31	JF	43	0	35	3	0
31	JI	43	0	35	3	0
31	JK	43	0	36	0	0
31	JP	43	0	36	0	0
31	K1	43	0	34	1	0
31	K7	43	0	34	2	0
31	K9	43	0	34	2	0
31	KF	43	0	34	0	0
31	KI	43	0	34	2	0
31	KK	43	0	34	1	0
31	KP	43	0	36	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	L1	43	0	36	1	0
31	L7	43	0	36	4	0
31	L9	43	0	36	4	0
31	LF	43	0	35	1	0
31	LI	43	0	35	1	0
31	LK	43	0	36	0	0
31	M1	43	0	34	6	0
31	M7	43	0	34	5	0
31	M9	43	0	34	5	0
31	MF	43	0	34	0	0
31	MI	43	0	34	0	0
31	MK	43	0	34	5	0
31	MP	43	0	36	0	0
31	N1	43	0	36	17	0
31	N7	43	0	36	6	0
31	N9	43	0	36	6	0
31	NF	43	0	35	2	0
31	NI	43	0	35	2	0
31	NK	43	0	36	1	0
31	NP	43	0	36	1	0
31	OP	43	0	36	0	0
31	PP	43	0	36	7	0
31	QP	43	0	36	0	0
31	RP	43	0	36	1	0
31	SP	43	0	36	1	0
31	TP	43	0	36	2	0
31	UP	43	0	36	2	0
31	VP	43	0	36	3	0
31	WP	43	0	36	0	0
31	XP	43	0	36	0	0
31	YP	43	0	36	2	0
31	cP	43	0	36	0	0
31	eP	43	0	36	0	0
31	fP	43	0	36	0	0
31	gP	43	0	36	0	0
31	hP	43	0	36	1	0
31	iP	43	0	36	0	0
31	jP	43	0	36	1	0
31	kP	43	0	36	1	0
31	lP	43	0	36	0	0
31	mP	43	0	36	0	0
31	nP	43	0	36	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	oP	43	0	36	0	0
31	pP	43	0	36	4	0
31	qP	43	0	36	0	0
31	rP	43	0	36	7	0
31	sP	43	0	36	0	0
31	tP	43	0	36	0	0
31	uP	43	0	36	1	0
31	vP	43	0	36	1	0
31	wP	43	0	36	2	0
31	xP	43	0	36	4	0
31	yP	43	0	36	1	0
32	k6	22	0	15	4	0
32	kH	22	0	15	4	0
All	All	944670	0	923001	33219	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (33219) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:yL:111:CYS:SG	30:yL:303:PUB:HBA2	1.11	1.69
7:I5:79:MET:SD	15:bB:229:LEU:HG	1.30	1.68
7:CD:50:CYS:SG	29:CD:203:PEB:HAA1	1.20	1.67
7:I8:79:MET:SD	15:bM:229:LEU:HG	1.19	1.67
7:a7:26:ALA:CB	12:E8:40:VAL:HG12	1.20	1.66
18:ME:200:ARG:HG3	18:ME:237:PHE:CE1	1.23	1.66
12:E8:162:ASN:HD22	29:kF:203:PEB:C4B	1.07	1.65
10:d4:335:LEU:HD11	10:dD:331:GLN:CG	1.23	1.65
6:AG:38:LEU:CD2	6:AG:98:VAL:HA	1.16	1.64
6:cL:72:ALA:HB1	29:cL:201:PEB:CMA	1.21	1.64
5:L9:18:PHE:CE1	20:vP:68:PRO:HD2	1.26	1.64
17:yJ:111:CYS:SG	30:yJ:303:PUB:HBA2	1.17	1.64
6:hI:9:VAL:HG21	7:iI:1:MET:CE	1.16	1.63
16:wL:183:LYS:CE	16:xL:40:VAL:HG13	1.20	1.63
29:BG:201:PEB:HBC2	29:MG:404:PEB:CBD	1.28	1.63
6:GL:72:ALA:CB	29:GL:201:PEB:HMA2	1.27	1.63
12:E8:186:PRO:CG	6:bF:57:ASP:HB2	1.19	1.62
7:DN:113:LEU:HD23	14:MN:280:PHE:CZ	1.32	1.63
17:BB:182:GLU:CG	29:BB:301:PEB:HMD2	1.25	1.61
6:U9:83:TYR:HE2	13:kH:261:MET:CG	1.05	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VR:61:CYS:SG	29:VR:203:PEB:HAD1	1.41	1.61
5:JK:17:GLU:HB3	15:bM:340:GLU:CG	1.30	1.61
8:eR:75:MET:HE1	29:NR:201:PEB:CAD	1.28	1.60
6:M2:139:CYS:CB	29:M2:202:PEB:HBA2	1.27	1.60
7:a9:147:THR:CG2	8:eR:287:ALA:HB1	1.22	1.60
7:K8:1:MET:HB3	7:K8:104:VAL:CG2	1.14	1.60
6:hF:9:VAL:HG21	7:iF:1:MET:CE	1.16	1.59
29:e2:401:PEB:CAA	7:P2:82:CYS:HB2	1.25	1.59
6:KN:38:LEU:CG	7:LN:24:LEU:HD23	1.32	1.59
6:AQ:38:LEU:CD2	6:AQ:98:VAL:HA	1.16	1.59
6:WR:142:ARG:CD	29:WR:202:PEB:HBA3	1.18	1.59
7:V2:61:CYS:SG	29:V2:203:PEB:HAD1	1.41	1.59
17:BM:182:GLU:CG	29:BM:301:PEB:HMD2	1.25	1.59
7:NJ:114:LYS:HE3	7:NJ:177:SER:C	1.17	1.58
18:MC:308:ILE:HD13	7:vJ:64:PRO:CD	1.33	1.58
12:E5:162:ASN:HD22	29:kI:203:PEB:C4B	1.11	1.58
19:zJ:363:ARG:CD	21:nP:62:TYR:CD1	1.86	1.58
6:MR:81:LYS:CE	29:MR:201:PEB:HAB2	1.28	1.58
5:J1:18:PHE:HD1	15:bB:335:ILE:CD1	1.16	1.58
13:k6:261:MET:CG	6:U7:83:TYR:CE2	1.76	1.58
4:IK:49:GLN:HE22	15:bM:337:PRO:CA	1.15	1.57
18:ME:232:MET:CE	29:SI:202:PEB:HAB1	1.29	1.57
6:GJ:72:ALA:CB	29:GJ:201:PEB:HMA2	1.27	1.57
6:cJ:72:ALA:HB1	29:cJ:201:PEB:CMA	1.21	1.57
5:L9:30:MET:CE	27:3P:237:ALA:HB1	1.11	1.57
7:K5:1:MET:HB3	7:K5:104:VAL:CG2	1.14	1.57
7:B8:104:VAL:HG23	18:ME:266:GLY:CA	1.10	1.57
6:ML:147:GLN:CD	29:PL:202:PEB:HMC2	1.27	1.57
12:E5:40:VAL:HG12	7:a9:26:ALA:CB	1.29	1.57
19:zJ:363:ARG:NE	21:nP:62:TYR:CD1	1.69	1.57
6:GL:72:ALA:HB1	29:GL:201:PEB:CMA	1.29	1.57
6:QR:142:ARG:HD3	29:QR:202:PEB:CBA	1.27	1.57
4:EI:33:ARG:HH12	29:LI:1002:PEB:CBD	1.15	1.56
7:GD:75:THR:CG2	29:JD:201:PEB:HBD2	1.30	1.56
7:NM:25:GLN:CB	21:oP:147:LYS:HG3	1.19	1.56
5:JI:65:GLN:HG3	20:PP:68:PRO:CG	1.30	1.56
15:bM:341:ALA:CB	20:mP:68:PRO:HG2	1.36	1.56
10:d4:335:LEU:CD1	10:dD:331:GLN:HG3	1.16	1.55
11:D5:260:THR:CG2	7:TK:150:LYS:HB2	1.17	1.55
6:UB:53:LYS:HG3	14:MG:100:THR:CG2	1.27	1.55
29:FQ:201:PEB:HMC2	14:MQ:181:TYR:CE2	1.35	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JK:22:THR:HG21	15:bM:331:ALA:CB	1.28	1.55
6:M2:81:LYS:CE	29:M2:201:PEB:HAB2	1.28	1.55
13:k6:261:MET:CG	6:U7:83:TYR:HE2	1.05	1.55
7:DN:113:LEU:CD2	14:MN:280:PHE:CZ	1.80	1.55
7:LC:7:ARG:HH11	18:MC:258:THR:CG2	1.14	1.55
7:NL:114:LYS:HE3	7:NL:177:SER:C	1.17	1.55
6:IO:140:VAL:CG1	6:IO:146:ALA:HA	1.34	1.55
5:L7:30:MET:CE	27:aP:237:ALA:HB1	1.20	1.55
7:L8:79:MET:HE3	13:kH:233:VAL:CG2	1.28	1.55
5:JI:65:GLN:CG	20:PP:68:PRO:HG3	1.30	1.55
6:GJ:72:ALA:HB1	29:GJ:201:PEB:CMA	1.29	1.55
6:GL:72:ALA:CB	29:GL:201:PEB:CMA	1.80	1.55
5:J1:18:PHE:CD1	15:bB:335:ILE:HD11	1.06	1.54
7:L5:79:MET:HE3	13:k6:233:VAL:CG2	1.29	1.54
5:JK:22:THR:CG2	15:bM:331:ALA:HB1	1.33	1.54
7:JQ:108:ARG:HD2	14:MQ:257:THR:CG2	1.31	1.54
29:FQ:201:PEB:CMC	14:MQ:181:TYR:CD2	1.84	1.54
5:J1:22:THR:HG21	15:bB:331:ALA:CB	1.34	1.54
6:I3:140:VAL:CG1	6:I3:146:ALA:HA	1.34	1.54
12:E5:186:PRO:CG	6:bI:57:ASP:HB2	1.17	1.54
5:JK:18:PHE:H	15:bM:335:ILE:CD1	1.17	1.54
6:U2:139:CYS:CB	29:U2:202:PEB:CBA	1.81	1.53
6:FD:81:LYS:CD	6:FD:84:ARG:HD3	1.36	1.53
4:EF:33:ARG:HH12	29:LF:1002:PEB:CBD	1.15	1.53
7:NB:25:GLN:CB	21:MP:147:LYS:HG3	1.36	1.53
6:UB:53:LYS:CD	14:MG:100:THR:HG22	1.38	1.53
7:B8:104:VAL:CG2	18:ME:266:GLY:CA	1.78	1.53
7:FG:137:GLN:NE2	29:FG:203:PEB:HHA1	1.21	1.53
7:T1:150:LYS:HB2	11:D8:260:THR:CG2	1.07	1.53
6:W2:142:ARG:CD	29:W2:202:PEB:HBA3	1.32	1.53
7:E4:59:MET:HE1	7:E4:130:ALA:CA	1.18	1.53
6:KN:38:LEU:HG	7:LN:24:LEU:CD2	1.08	1.53
6:JD:133:TYR:CZ	6:JD:137:ARG:HD3	1.42	1.53
7:LQ:133:ILE:HG12	29:LQ:202:PEB:CBC	1.39	1.53
6:KA:38:LEU:CG	7:LA:24:LEU:HD23	1.32	1.52
18:ME:268:VAL:CG1	7:PI:148:GLU:HA	1.08	1.52
4:MK:19:LEU:CD1	5:NK:98:ILE:CD1	1.82	1.52
16:wL:176:TYR:CD1	16:xL:39:LEU:HD13	1.40	1.52
19:zL:363:ARG:HA	21:LP:62:TYR:CG	1.43	1.52
6:OR:37:ARG:NH1	6:OR:100:GLY:HA2	1.22	1.52
6:U2:139:CYS:CB	29:U2:202:PEB:HBA2	1.37	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:142:ARG:HE	6:lB:76:GLN:CD	1.07	1.52
6:F4:81:LYS:CD	6:F4:84:ARG:HD3	1.36	1.52
18:MC:242:LYS:HG3	29:SF:202:PEB:CBB	1.38	1.52
6:GJ:72:ALA:CB	29:GJ:201:PEB:CMA	1.80	1.52
6:H4:137:ARG:HH12	29:H4:202:PEB:C4B	1.21	1.52
6:KA:38:LEU:HG	7:LA:24:LEU:CD2	1.08	1.52
5:J1:18:PHE:CD1	15:bB:335:ILE:CD1	1.90	1.51
10:d4:331:GLN:HG2	10:dD:335:LEU:CD1	1.05	1.51
15:bM:335:ILE:HG21	15:bM:340:GLU:CB	1.34	1.51
7:L8:79:MET:CE	13:kH:233:VAL:HG21	1.38	1.51
1:XF:105:LYS:CE	7:aF:91:ARG:NH2	1.70	1.51
7:B5:104:VAL:HG23	18:MC:266:GLY:CA	1.40	1.51
7:a9:147:THR:HG22	8:eR:287:ALA:CB	1.03	1.50
7:KD:50:CYS:SG	29:KD:203:PEB:HAA1	1.51	1.50
7:LQ:111:ASN:O	14:MQ:236:TYR:CD1	1.63	1.50
7:RM:58:GLY:HA2	7:RM:61:CYS:SG	1.51	1.50
7:NB:25:GLN:CG	21:MP:147:LYS:HG3	1.41	1.50
7:PB:61:CYS:SG	29:PB:202:PEB:HAD1	1.52	1.50
18:ME:232:MET:HE1	29:SI:202:PEB:CAB	1.08	1.50
5:JF:65:GLN:CG	20:rP:68:PRO:HG3	1.39	1.50
6:J4:133:TYR:CZ	6:J4:137:ARG:HD3	1.42	1.50
19:zJ:363:ARG:HB2	21:nP:62:TYR:CE1	1.46	1.50
17:BM:181:THR:HB	29:BM:301:PEB:CBA	1.39	1.50
6:HD:137:ARG:HH12	29:HD:202:PEB:C4B	1.21	1.50
7:PM:61:CYS:SG	29:PM:202:PEB:HAD1	1.52	1.50
6:O2:65:TYR:CB	13:k6:236:GLN:HE21	1.18	1.49
5:JK:17:GLU:HB2	15:bM:335:ILE:CB	1.38	1.49
5:L7:18:PHE:CE1	20:TP:68:PRO:HD2	1.45	1.49
6:U7:141:PRO:CB	7:XB:25:GLN:HE22	1.24	1.49
6:U9:141:PRO:CB	7:XM:25:GLN:HE22	1.24	1.49
7:DQ:50:CYS:SG	29:DQ:203:PEB:HAA1	1.50	1.49
19:zJ:363:ARG:HD3	21:nP:62:TYR:CB	1.42	1.49
17:BB:181:THR:HB	29:BB:301:PEB:CBA	1.39	1.49
5:JF:65:GLN:HG3	20:rP:68:PRO:CG	1.37	1.49
6:J4:133:TYR:CE1	6:J4:137:ARG:HD3	1.47	1.49
12:E5:183:TYR:CD2	6:bI:83:TYR:CD2	1.99	1.49
6:QR:139:CYS:CB	29:QR:202:PEB:CBA	1.91	1.49
13:k6:261:MET:HG3	6:U7:83:TYR:CE2	0.96	1.48
6:JD:133:TYR:CE1	6:JD:137:ARG:HD3	1.47	1.48
3:B1:205:ARG:CZ	20:JP:52:LYS:HE3	1.43	1.48
6:M2:81:LYS:HE3	29:M2:201:PEB:CAB	1.00	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:81:LYS:CA	6:F4:84:ARG:HD2	1.40	1.48
6:U9:83:TYR:CE2	13:kH:261:MET:CG	1.76	1.48
4:CF:33:ARG:NH1	29:NF:1002:PEB:HBD1	1.18	1.48
7:RB:58:GLY:HA2	7:RB:61:CYS:SG	1.51	1.48
10:d4:331:GLN:CG	10:dD:335:LEU:CD1	1.88	1.48
6:L4:18:PHE:CE1	7:M4:91:ARG:HG2	1.49	1.48
17:BB:181:THR:CB	29:BB:301:PEB:HBA1	1.41	1.48
7:E4:59:MET:CE	7:E4:130:ALA:HA	1.43	1.47
6:SL:33:ARG:NE	6:SL:147:GLN:HE22	1.09	1.47
6:iL:65:TYR:CE2	6:iL:71:GLU:OE1	1.67	1.47
7:B8:104:VAL:CG2	18:ME:266:GLY:HA2	1.36	1.47
6:FD:81:LYS:CA	6:FD:84:ARG:HD2	1.40	1.47
19:zL:363:ARG:HD3	21:LP:62:TYR:CB	1.41	1.47
6:M2:142:ARG:HH12	29:M2:202:PEB:C4B	1.28	1.47
18:ME:312:LEU:HD23	7:vL:68:SER:CB	1.45	1.47
12:E8:183:TYR:CD2	6:bF:83:TYR:CD2	2.01	1.47
7:LE:120:LEU:HD12	18:ME:213:THR:CG2	1.41	1.46
6:iJ:65:TYR:CE2	6:iJ:71:GLU:OE1	1.67	1.46
29:FQ:201:PEB:CMC	14:MQ:181:TYR:CE2	1.96	1.46
6:uJ:68:ASN:HB2	6:uJ:71:GLU:CD	1.41	1.46
6:oL:68:ASN:HB2	6:oL:71:GLU:CD	1.41	1.46
7:GD:76:ASN:HD21	6:JD:113:ALA:CB	1.26	1.46
18:ME:303:PHE:CD2	6:gL:83:TYR:CE2	2.04	1.46
10:d4:331:GLN:CG	10:dD:335:LEU:HD11	1.41	1.46
18:ME:229:GLU:HG3	18:ME:242:LYS:NZ	1.24	1.46
17:BM:181:THR:CB	29:BM:301:PEB:HBA1	1.41	1.46
29:fL:201:PEB:O1C	16:wL:115:PHE:CE1	1.68	1.45
5:J1:17:GLU:HB3	15:bB:340:GLU:CG	1.43	1.45
6:U9:83:TYR:CE2	13:kH:261:MET:HG3	0.96	1.45
6:LD:18:PHE:CE1	7:MD:91:ARG:HG2	1.49	1.45
6:aJ:68:ASN:HB2	6:aJ:71:GLU:CD	1.41	1.45
7:L5:79:MET:CE	13:k6:233:VAL:HG21	1.47	1.45
13:kH:236:GLN:HE21	6:OR:65:TYR:CB	1.25	1.45
6:eJ:68:ASN:HB2	6:eJ:71:GLU:CD	1.41	1.45
6:MR:81:LYS:HE3	29:MR:201:PEB:CAB	1.00	1.45
6:O2:65:TYR:CB	13:k6:236:GLN:NE2	1.74	1.45
7:G4:76:ASN:HD21	6:J4:113:ALA:CB	1.29	1.45
7:FG:50:CYS:SG	29:FG:203:PEB:CAA	2.03	1.45
6:EL:68:ASN:HB2	6:EL:71:GLU:CD	1.41	1.45
7:T1:150:LYS:CB	11:D8:260:THR:CG2	1.92	1.45
3:B9:197:PHE:CB	21:sP:50:THR:OG1	1.64	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UB:53:LYS:CG	14:MG:100:THR:CG2	1.95	1.45
7:DE:51:MET:CE	7:DE:137:GLN:HB3	1.47	1.45
18:ME:268:VAL:CG1	7:PI:148:GLU:CA	1.91	1.45
6:qJ:33:ARG:NH1	6:qJ:147:GLN:HE22	0.98	1.45
19:zJ:343:GLN:NE2	20:iP:61:ARG:HA	1.19	1.45
1:X7:263:THR:HG22	5:D7:115:GLU:CD	1.42	1.44
4:K7:52:ILE:CD1	20:TP:68:PRO:HG3	1.46	1.44
6:ML:68:ASN:HB2	6:ML:71:GLU:CD	1.41	1.44
6:QL:68:ASN:HB2	6:QL:71:GLU:CD	1.41	1.44
6:YL:68:ASN:HB2	6:YL:71:GLU:CD	1.41	1.44
29:e2:401:PEB:HAA1	7:P2:82:CYS:CB	1.46	1.44
7:NB:25:GLN:HG3	21:MP:147:LYS:CG	1.45	1.44
5:JF:65:GLN:HG3	20:rP:68:PRO:CD	1.47	1.44
19:zJ:363:ARG:HA	21:nP:62:TYR:CG	1.52	1.44
6:KQ:2:LYS:HZ3	30:MQ:404:PUB:CBB	1.27	1.44
10:d4:335:LEU:CD1	10:dD:331:GLN:CG	1.75	1.44
7:C4:58:GLY:O	29:C4:203:PEB:CBD	1.63	1.44
17:BB:182:GLU:CG	29:BB:301:PEB:CMD	1.95	1.44
7:LE:51:MET:CE	7:LE:137:GLN:HB3	1.47	1.44
7:FG:50:CYS:SG	29:FG:203:PEB:H2A1	1.54	1.44
16:wJ:102:ALA:HA	16:wJ:105:ARG:CD	1.46	1.44
6:FD:33:ARG:NH2	29:ID:202:PEB:HBD1	1.25	1.44
5:JK:17:GLU:CB	15:bM:335:ILE:HB	1.45	1.44
17:yL:111:CYS:SG	30:yL:303:PUB:CBA	2.06	1.44
7:FQ:50:CYS:SG	29:FQ:203:PEB:H2A1	1.55	1.44
7:G4:75:THR:HG23	29:J4:201:PEB:CAD	1.47	1.44
6:mL:68:ASN:HB2	6:mL:71:GLU:CD	1.41	1.44
16:xL:102:ALA:HA	16:xL:105:ARG:CD	1.46	1.44
6:WR:65:TYR:CZ	6:WR:66:LEU:HD11	1.52	1.44
7:E4:61:CYS:SG	29:E4:203:PEB:CBD	2.04	1.43
6:gJ:68:ASN:HB2	6:gJ:71:GLU:CD	1.41	1.43
6:uL:68:ASN:HB2	6:uL:71:GLU:CD	1.41	1.43
17:BM:182:GLU:CG	29:BM:301:PEB:CMD	1.95	1.43
7:IJ:111:ASN:O	16:xJ:176:TYR:CD1	1.69	1.43
3:B1:205:ARG:NE	20:JP:52:LYS:HE3	1.28	1.43
6:O2:37:ARG:NH1	6:O2:100:GLY:HA2	1.22	1.43
3:B9:209:GLN:HE22	21:sP:128:GLN:NE2	1.13	1.43
7:MD:124:THR:H	6:UI:69:PRO:CG	1.30	1.43
6:eL:68:ASN:HB2	6:eL:71:GLU:CD	1.41	1.43
6:W2:65:TYR:CZ	6:W2:66:LEU:HD11	1.52	1.43
1:X9:263:THR:HG22	5:D9:115:GLU:CD	1.42	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FA:201:PEB:CBC	14:MA:174:ARG:NH1	1.80	1.43
7:BE:51:MET:CE	7:BE:137:GLN:HB3	1.47	1.43
7:ZL:108:ARG:CZ	16:XL:41:ASN:CB	1.97	1.43
4:CF:33:ARG:HH12	29:NF:1002:PEB:CBD	1.28	1.43
4:CI:33:ARG:HH12	29:NI:1002:PEB:CBD	1.28	1.43
4:CI:33:ARG:NH1	29:NI:1002:PEB:HBD1	1.18	1.43
6:kJ:68:ASN:HB2	6:kJ:71:GLU:CD	1.41	1.43
3:BK:205:ARG:NH2	20:IP:52:LYS:HG3	1.16	1.43
4:K9:52:ILE:CD1	20:vP:68:PRO:HG3	1.49	1.42
7:JE:51:MET:CE	7:JE:137:GLN:HB3	1.47	1.42
6:QR:139:CYS:CB	29:QR:202:PEB:HBA2	0.97	1.42
3:B1:205:ARG:NH2	20:JP:52:LYS:HG3	1.14	1.42
8:e2:153:GLN:NE2	7:X2:108:ARG:HH12	1.17	1.42
6:U9:67:LYS:NZ	13:kH:259:SER:HA	1.11	1.42
15:bB:341:ALA:CB	20:KP:68:PRO:HG2	1.49	1.42
18:MC:236:ASP:CB	29:SF:202:PEB:OA	1.67	1.42
18:ME:200:ARG:CG	18:ME:237:PHE:CE1	2.00	1.42
6:YJ:68:ASN:HB2	6:YJ:71:GLU:CD	1.41	1.42
19:zL:363:ARG:NE	21:LP:62:TYR:HD1	1.03	1.42
29:K4:202:PEB:HBD1	6:L4:33:ARG:CZ	1.50	1.42
7:L5:108:ARG:CD	4:I7:64:PRO:HG3	1.48	1.42
12:E8:209:ARG:CG	6:IF:70:GLY:HA2	1.45	1.42
7:DC:51:MET:CE	7:DC:137:GLN:HB3	1.47	1.42
7:GD:75:THR:HG22	29:JD:201:PEB:CBD	1.48	1.42
7:GD:76:ASN:ND2	6:JD:113:ALA:HB2	1.33	1.42
7:KD:61:CYS:SG	29:KD:203:PEB:CBD	2.05	1.42
18:ME:258:THR:HB	18:ME:259:PRO:CD	1.49	1.42
29:BG:201:PEB:HBD2	14:MG:126:SER:CB	1.45	1.42
6:mJ:68:ASN:HB2	6:mJ:71:GLU:CD	1.41	1.42
6:oJ:68:ASN:HB2	6:oJ:71:GLU:CD	1.41	1.42
4:IK:49:GLN:NE2	15:bM:337:PRO:HA	1.25	1.42
6:W2:142:ARG:HG2	29:W2:202:PEB:CBA	1.46	1.42
12:E5:183:TYR:HB2	6:bI:83:TYR:CE2	1.54	1.42
7:JC:51:MET:CE	7:JC:137:GLN:HB3	1.47	1.42
18:ME:229:GLU:CG	18:ME:242:LYS:NZ	1.79	1.42
7:LG:50:CYS:SG	29:LG:203:PEB:CAA	2.05	1.42
6:QJ:68:ASN:HB2	6:QJ:71:GLU:CD	1.41	1.42
7:TJ:25:GLN:NE2	25:YP:521:THR:HG21	1.20	1.42
19:zJ:363:ARG:HD3	21:nP:62:TYR:CG	1.51	1.42
6:U9:69:PRO:CG	7:TR:123:PRO:HA	1.47	1.42
6:JD:9:VAL:HG13	7:KD:95:TYR:CE1	1.55	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LD:18:PHE:CE1	7:MD:91:ARG:CG	2.03	1.42
7:FG:50:CYS:SG	29:FG:203:PEB:CBA	2.08	1.42
6:EJ:68:ASN:HB2	6:EJ:71:GLU:CD	1.41	1.42
6:aL:68:ASN:HB2	6:aL:71:GLU:CD	1.41	1.42
5:L9:30:MET:HE1	27:3P:237:ALA:CB	1.49	1.41
6:kL:68:ASN:HB2	6:kL:71:GLU:CD	1.41	1.41
3:B7:197:PHE:CB	21:QP:50:THR:OG1	1.66	1.41
7:B8:91:ARG:NH2	18:ME:293:MET:HB2	1.33	1.41
29:FA:201:PEB:CAC	14:MA:174:ARG:NH1	1.81	1.41
18:MC:268:VAL:HG12	7:PF:148:GLU:CA	1.49	1.41
6:MJ:68:ASN:HB2	6:MJ:71:GLU:CD	1.41	1.41
7:NM:25:GLN:CG	21:oP:147:LYS:HG3	1.48	1.41
6:WR:142:ARG:CD	29:WR:202:PEB:CBA	1.97	1.41
10:d4:327:SER:OG	10:dD:338:GLU:CG	1.65	1.41
7:HG:61:CYS:SG	29:HG:203:PEB:CAD	2.05	1.41
7:V9:150:LYS:CG	13:kH:61:ARG:NH1	1.82	1.41
6:QB:54:GLU:CD	29:QB:204:PEB:HAC1	1.45	1.41
7:LC:51:MET:CE	7:LC:137:GLN:HB3	1.47	1.41
18:MC:242:LYS:CG	29:SF:202:PEB:HBB2	1.46	1.41
3:BI:227:GLU:HG2	20:vP:56:GLN:NE2	1.24	1.41
6:IO:139:CYS:CB	29:IO:202:PEB:HAA2	1.49	1.41
18:MC:258:THR:HB	18:MC:259:PRO:CD	1.49	1.41
16:wL:183:LYS:HE3	16:xL:40:VAL:CG1	1.47	1.41
19:zL:343:GLN:NE2	20:GP:61:ARG:HA	1.15	1.41
29:FN:201:PEB:CBC	14:MN:174:ARG:NH1	1.84	1.41
3:BI:227:GLU:CG	20:vP:56:GLN:NE2	1.79	1.40
10:d4:331:GLN:HG3	10:dD:331:GLN:NE2	1.21	1.40
7:B8:91:ARG:NH2	18:ME:293:MET:CB	1.80	1.40
17:BB:182:GLU:CD	29:BB:301:PEB:HMD2	1.47	1.40
7:FG:61:CYS:HB3	29:FG:203:PEB:CAD	1.50	1.40
16:xJ:102:ALA:HA	16:xJ:105:ARG:CD	1.46	1.40
4:KF:70:PRO:HD3	9:OO:308:TYR:CE2	1.54	1.40
7:HG:58:GLY:HA2	29:HG:203:PEB:CMD	1.51	1.40
6:gL:68:ASN:HB2	6:gL:71:GLU:CD	1.41	1.40
13:kH:236:GLN:NE2	6:OR:65:TYR:CB	1.83	1.40
7:TJ:25:GLN:HE21	25:YP:521:THR:CG2	1.34	1.40
6:cL:72:ALA:CB	29:cL:201:PEB:HMA2	1.51	1.40
7:FQ:137:GLN:NE2	29:FQ:203:PEB:HHA1	1.14	1.40
6:J4:9:VAL:HG13	7:K4:95:TYR:CE1	1.56	1.40
7:BC:51:MET:CE	7:BC:137:GLN:HB3	1.47	1.40
7:BG:61:CYS:SG	29:BG:203:PEB:HBD2	1.61	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:18:PHE:HE1	7:M4:91:ARG:CG	1.35	1.39
7:LC:120:LEU:HD12	18:MC:213:THR:CG2	1.51	1.39
16:wL:102:ALA:HA	16:wL:105:ARG:CD	1.46	1.39
8:e2:153:GLN:HE21	7:X2:108:ARG:NH1	1.09	1.39
7:BE:51:MET:HE1	7:BE:137:GLN:CB	1.53	1.39
5:JI:65:GLN:HG3	20:PP:68:PRO:CD	1.52	1.39
7:TL:25:GLN:NE2	25:1P:521:THR:HG21	1.19	1.39
4:CF:116:GLU:OE2	4:KF:120:ARG:CD	1.70	1.39
6:AJ:139:CYS:CB	29:AJ:202:PEB:CAA	1.99	1.39
7:P2:174:ALA:HB1	6:W7:76:GLN:NE2	1.38	1.39
6:U7:141:PRO:CB	7:XB:25:GLN:NE2	1.79	1.39
12:E8:183:TYR:HB2	6:bF:83:TYR:CE2	1.57	1.39
15:bB:355:LEU:HD23	6:MB:53:LYS:NZ	1.12	1.39
7:ZL:108:ARG:NH1	16:xL:41:ASN:CB	1.85	1.39
6:IM:54:GLU:OE1	29:IM:202:PEB:CMC	1.71	1.39
7:ID:102:ALA:HB1	7:ID:105:LEU:CD1	1.53	1.39
4:MK:19:LEU:CD1	5:NK:98:ILE:HD11	1.38	1.39
6:O2:142:ARG:CB	6:IB:76:GLN:OE1	1.68	1.38
6:I3:139:CYS:CB	29:I3:202:PEB:HAA2	1.49	1.38
7:I4:102:ALA:HB1	7:I4:105:LEU:CD1	1.53	1.38
29:W9:202:PEB:HMA1	8:eR:249:TYR:CG	1.58	1.38
17:BM:182:GLU:CD	29:BM:301:PEB:HMD2	1.47	1.38
29:DQ:201:PEB:CBC	14:MQ:276:GLU:OE1	1.67	1.38
6:O2:142:ARG:NE	6:IB:76:GLN:CD	1.74	1.38
7:G4:76:ASN:ND2	6:J4:113:ALA:HB2	1.38	1.38
7:LE:51:MET:HE1	7:LE:137:GLN:CB	1.53	1.38
7:FL:144:ASN:ND2	7:FL:153:PHE:CE2	1.91	1.38
7:C4:50:CYS:SG	29:C4:203:PEB:HAA1	1.63	1.38
4:K7:49:GLN:HG2	3:BF:228:MET:CG	1.24	1.38
6:AL:139:CYS:CB	29:AL:202:PEB:CAA	1.99	1.38
6:QL:74:GLU:N	6:QL:78:LYS:CD	1.83	1.38
5:N1:33:GLU:CG	5:N1:36:GLN:HB2	1.53	1.38
8:e2:148:LEU:CD1	7:X2:108:ARG:HH21	1.35	1.38
13:k6:259:SER:HA	6:U7:67:LYS:NZ	1.11	1.38
6:U9:69:PRO:O	8:eR:275:GLY:CA	1.71	1.38
4:EF:33:ARG:NH1	29:LF:1002:PEB:HBD1	1.10	1.38
29:BG:201:PEB:CBD	14:MG:126:SER:OG	1.70	1.38
3:BK:205:ARG:NE	20:IP:52:LYS:HE3	1.30	1.38
6:SR:51:VAL:HG12	6:SR:137:ARG:NH2	1.06	1.38
6:L4:18:PHE:CE1	7:M4:91:ARG:CG	2.03	1.38
12:E5:209:ARG:CG	6:II:70:GLY:HA2	1.54	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BB:182:GLU:HG3	29:BB:301:PEB:CMD	1.52	1.38
7:JE:51:MET:HE1	7:JE:137:GLN:CB	1.53	1.37
5:FF:15:ARG:NE	5:FF:17:GLU:OE2	1.57	1.38
7:JG:108:ARG:CD	14:MG:257:THR:HG21	1.52	1.38
6:QL:74:GLU:H	6:QL:78:LYS:CD	1.34	1.38
8:eR:122:SER:O	29:VR:201:PEB:CGC	1.72	1.38
12:E8:186:PRO:CG	6:bF:57:ASP:CB	2.03	1.37
7:BG:61:CYS:SG	29:BG:203:PEB:CBD	2.13	1.37
7:TL:25:GLN:HE21	25:1P:521:THR:CG2	1.36	1.37
6:QM:54:GLU:CD	29:QM:204:PEB:HAC1	1.45	1.37
6:f1:28:GLN:CG	6:h1:33:ARG:NH1	1.86	1.37
6:J5:9:VAL:HG11	7:K5:95:TYR:CE1	1.58	1.37
6:J8:9:VAL:HG11	7:K8:95:TYR:CE1	1.58	1.37
6:LD:18:PHE:HE1	7:MD:91:ARG:CG	1.35	1.37
18:ME:301:ASN:CB	6:gL:53:LYS:HD2	1.53	1.37
4:EI:33:ARG:NH1	29:LI:1002:PEB:HBD1	1.10	1.37
5:NK:33:GLU:CG	5:NK:36:GLN:HB2	1.53	1.37
7:JQ:108:ARG:CD	14:MQ:257:THR:CG2	2.02	1.37
8:eR:80:GLU:OE2	7:NR:115:GLU:CG	1.70	1.37
5:H7:150:ILE:CG2	7:ZB:159:THR:HG21	1.54	1.37
6:U9:141:PRO:CB	7:XM:25:GLN:NE2	1.79	1.37
7:FJ:144:ASN:ND2	7:FJ:153:PHE:CE2	1.91	1.37
6:cJ:72:ALA:CB	29:cJ:201:PEB:HMA2	1.51	1.37
7:G4:58:GLY:O	29:G4:203:PEB:CBD	1.71	1.36
13:k6:5:PRO:CG	6:YB:49:GLU:OE1	1.71	1.36
3:B7:209:GLN:HE22	21:QP:128:GLN:NE2	1.19	1.36
7:DC:51:MET:HE1	7:DC:137:GLN:CB	1.53	1.36
7:LC:51:MET:HE1	7:LC:137:GLN:CB	1.53	1.36
4:EF:120:ARG:CD	4:IF:116:GLU:OE2	1.71	1.36
7:HG:50:CYS:O	29:HG:203:PEB:CAA	1.70	1.36
4:EI:120:ARG:CD	4:II:116:GLU:OE2	1.71	1.36
6:QJ:74:GLU:N	6:QJ:78:LYS:CD	1.83	1.36
7:T1:150:LYS:CB	11:D8:260:THR:HG23	1.52	1.36
7:N3:66:LEU:HD12	7:VL:155:ALA:CB	1.54	1.36
7:I5:7:ARG:NH2	28:bP:88:LEU:CD2	1.88	1.36
17:BM:182:GLU:HG3	29:BM:301:PEB:CMD	1.52	1.36
7:NM:25:GLN:CG	21:oP:147:LYS:CG	2.01	1.36
7:BC:51:MET:HE1	7:BC:137:GLN:CB	1.53	1.36
4:CF:145:GLN:NE2	29:NF:1002:PEB:HMC3	1.36	1.36
6:AN:5:ILE:CD1	6:AN:27:ILE:HD13	1.54	1.36
12:E8:209:ARG:HG2	6:lF:70:GLY:CA	1.53	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jB:33:ARG:HH12	6:jB:147:GLN:CD	1.34	1.36
6:lB:54:GLU:OE1	29:lB:202:PEB:CMC	1.71	1.36
6:AG:38:LEU:CD2	6:AG:98:VAL:CA	2.02	1.36
6:MJ:33:ARG:NH1	6:MJ:147:GLN:NE2	1.74	1.36
29:K4:202:PEB:HBD1	6:L4:33:ARG:NH1	1.38	1.36
7:L5:108:ARG:HD2	4:I7:64:PRO:CG	1.53	1.36
11:D5:260:THR:CG2	7:TK:150:LYS:CB	2.01	1.36
6:AA:5:ILE:CD1	6:AA:27:ILE:HD13	1.54	1.36
7:LC:7:ARG:NH1	18:MC:258:THR:HG23	1.07	1.36
10:dD:283:ARG:CG	7:TI:148:GLU:HB3	1.56	1.36
19:zL:363:ARG:NE	21:LP:62:TYR:CD1	1.94	1.36
6:EM:54:GLU:OE2	29:EM:202:PEB:HAC1	1.19	1.36
7:G5:149:ARG:HE	7:k9:150:LYS:NZ	1.24	1.35
5:H9:150:ILE:CG2	7:ZM:159:THR:HG21	1.54	1.35
7:JC:51:MET:HE1	7:JC:137:GLN:CB	1.53	1.35
7:DE:51:MET:HE1	7:DE:137:GLN:CB	1.53	1.35
18:ME:268:VAL:HG11	7:PI:148:GLU:C	1.50	1.35
13:kH:5:PRO:CG	6:YM:49:GLU:OE1	1.71	1.35
10:d4:217:SER:OG	29:I4:201:PEB:CAC	1.74	1.35
12:E5:182:ASN:ND2	6:bI:80:ASN:HD21	1.18	1.35
12:E8:186:PRO:HG2	6:bF:57:ASP:CB	1.55	1.35
5:F9:18:PHE:CD1	8:eR:300:VAL:HG12	1.58	1.35
7:MD:124:THR:N	6:UI:69:PRO:HG2	1.36	1.35
7:FG:50:CYS:SG	29:FG:203:PEB:HBA3	1.65	1.35
7:NM:25:GLN:HB2	21:oP:147:LYS:CG	1.55	1.35
6:S2:51:VAL:HG12	6:S2:137:ARG:NH2	1.05	1.35
6:W2:138:LEU:CD1	6:W2:143:ASP:OD2	1.75	1.35
6:U7:141:PRO:HB2	7:XB:25:GLN:NE2	1.37	1.35
6:J8:18:PHE:CD1	6:J8:19:PRO:HD2	1.59	1.35
12:E8:182:ASN:ND2	6:bF:80:ASN:HD21	1.23	1.35
18:MC:268:VAL:HG11	7:PF:148:GLU:C	1.50	1.35
18:ME:312:LEU:CD2	7:vL:69:PRO:CD	2.04	1.35
4:CI:120:ARG:CD	4:KI:116:GLU:OE2	1.75	1.35
7:BQ:50:CYS:SG	29:BQ:203:PEB:CBA	2.14	1.35
7:DQ:137:GLN:NE2	29:DQ:203:PEB:HHA1	1.41	1.35
6:O2:69:PRO:HG2	13:k6:232:PHE:CD2	1.61	1.35
6:F4:81:LYS:HA	6:F4:84:ARG:CD	1.55	1.35
7:I5:72:MEN:O	7:I5:78:ARG:HD3	1.26	1.35
7:K8:1:MET:CB	7:K8:104:VAL:CG2	2.05	1.35
18:ME:240:ARG:CD	6:SI:133:TYR:HE1	1.39	1.35
6:hI:9:VAL:CG2	7:iI:1:MET:CE	2.04	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NJ:114:LYS:NZ	7:NJ:177:SER:O	1.59	1.35
6:UJ:70:GLY:HA2	6:UJ:74:GLU:CD	1.51	1.35
6:O2:68:ASN:CG	13:k6:234:ASP:O	1.70	1.35
7:T2:123:PRO:HA	6:U7:69:PRO:CG	1.57	1.35
7:M4:124:THR:OG1	6:UF:69:PRO:HB3	1.17	1.35
12:E5:186:PRO:CG	6:bI:57:ASP:CB	2.02	1.35
7:B8:104:VAL:HG23	18:ME:266:GLY:N	1.38	1.35
6:EB:54:GLU:OE1	29:EB:202:PEB:HMC1	1.22	1.35
7:CD:50:CYS:SG	29:CD:203:PEB:CAA	2.14	1.35
7:cF:1:MET:CG	7:cF:104:VAL:HG23	1.57	1.35
7:FG:61:CYS:CB	29:FG:203:PEB:HAD1	1.53	1.35
7:gK:171:ARG:NH2	14:MN:97:PHE:CE1	1.95	1.35
7:LL:26:ALA:O	28:bP:231:ILE:CD1	1.72	1.35
16:wL:176:TYR:HD1	16:xL:39:LEU:CD1	1.40	1.35
6:QR:139:CYS:SG	29:QR:202:PEB:HBA2	1.65	1.35
6:F4:81:LYS:HD2	6:F4:84:ARG:CD	1.58	1.34
7:I8:79:MET:SD	15:bM:229:LEU:CG	2.13	1.34
18:ME:304:TRP:CD1	6:gL:84:ARG:HA	1.62	1.34
1:XF:105:LYS:HE3	7:aF:91:ARG:NH2	1.07	1.34
6:J4:133:TYR:CZ	6:J4:137:ARG:CD	2.09	1.34
5:J9:107:ASP:OD1	26:ZP:55:PRO:CD	1.75	1.34
10:dD:217:SER:OG	29:ID:201:PEB:CAC	1.75	1.34
16:wL:183:LYS:CD	16:xL:40:VAL:HG13	1.56	1.34
6:AQ:2:LYS:NZ	30:MQ:405:PUB:CAB	1.90	1.34
6:AQ:2:LYS:NZ	30:MQ:405:PUB:HAB2	1.04	1.34
7:FQ:141:PHE:CZ	29:FQ:203:PEB:HMA2	1.60	1.34
6:QR:139:CYS:SG	29:QR:202:PEB:CBA	2.14	1.34
13:k6:187:THR:CB	5:H7:141:LEU:HD13	1.56	1.34
5:L7:30:MET:HE1	27:aP:237:ALA:CB	1.55	1.34
6:FD:81:LYS:HA	6:FD:84:ARG:CD	1.55	1.34
4:IK:49:GLN:NE2	15:bM:337:PRO:CA	1.81	1.34
6:UL:70:GLY:HA2	6:UL:74:GLU:CD	1.51	1.34
7:HQ:61:CYS:SG	29:HQ:203:PEB:CAD	2.15	1.34
7:HQ:140:ALA:CB	29:HQ:203:PEB:HAB2	1.57	1.34
5:J1:22:THR:CG2	15:bB:331:ALA:HB1	1.56	1.34
8:e2:278:LEU:CD2	6:W7:62:LYS:HE3	1.58	1.34
7:M4:124:THR:H	6:UF:69:PRO:CG	1.40	1.34
7:V9:150:LYS:HG3	13:kH:61:ARG:NH1	1.35	1.34
17:yJ:111:CYS:SG	30:yJ:303:PUB:CBA	2.12	1.34
6:SL:33:ARG:CD	6:SL:151:GLU:OE2	1.72	1.34
6:AQ:38:LEU:CD2	6:AQ:98:VAL:CA	2.02	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W2:142:ARG:CG	29:W2:202:PEB:CBA	2.04	1.34
19:zJ:363:ARG:HA	21:nP:62:TYR:CD2	1.61	1.34
7:NL:114:LYS:CE	7:NL:177:SER:C	1.99	1.34
6:UR:138:LEU:HB3	29:UR:202:PEB:CMD	1.56	1.34
6:M2:142:ARG:NH1	29:M2:202:PEB:C1B	1.89	1.33
7:K5:1:MET:CB	7:K5:104:VAL:CG2	2.05	1.33
12:E8:162:ASN:ND2	29:kF:203:PEB:C4B	1.91	1.33
7:NJ:114:LYS:CE	7:NJ:177:SER:C	1.99	1.33
16:wL:183:LYS:HG2	16:xL:40:VAL:CG1	1.56	1.33
7:LQ:133:ILE:CG1	29:LQ:202:PEB:HBC1	1.56	1.33
6:SR:85:ASP:OD1	29:SR:201:PEB:C1D	1.76	1.33
6:M2:81:LYS:CE	29:M2:201:PEB:CAB	1.91	1.33
6:U9:141:PRO:HB2	7:XM:25:GLN:NE2	1.37	1.33
6:FD:81:LYS:HD2	6:FD:84:ARG:CD	1.58	1.33
7:FG:137:GLN:NE2	29:FG:203:PEB:CHA	1.90	1.33
4:CI:145:GLN:NE2	29:NI:1002:PEB:HMC3	1.36	1.33
6:JD:133:TYR:CZ	6:JD:137:ARG:CD	2.09	1.33
5:JK:17:GLU:CB	15:bM:340:GLU:HG2	1.54	1.33
3:B7:209:GLN:NE2	21:QP:128:GLN:NE2	1.75	1.33
3:B9:209:GLN:NE2	21:sP:128:GLN:NE2	1.71	1.33
6:W9:76:GLN:NE2	7:PR:174:ALA:HB1	1.41	1.33
18:MC:268:VAL:CG1	7:PF:148:GLU:C	2.02	1.33
7:HQ:61:CYS:SG	29:HQ:203:PEB:HAD1	1.66	1.33
10:d4:335:LEU:HD11	10:dD:331:GLN:CB	1.58	1.32
7:NL:114:LYS:NZ	7:NL:177:SER:O	1.59	1.32
5:H9:141:LEU:HD13	13:kH:187:THR:CB	1.56	1.32
18:MC:268:VAL:CG1	7:PF:148:GLU:HA	1.59	1.32
7:KD:61:CYS:SG	29:KD:203:PEB:CAD	2.17	1.32
18:ME:312:LEU:CD2	7:vL:69:PRO:HD2	1.59	1.32
7:cI:1:MET:CG	7:cI:104:VAL:HG23	1.57	1.32
6:QJ:74:GLU:H	6:QJ:78:LYS:CD	1.34	1.32
6:f1:28:GLN:HG2	6:h1:33:ARG:NH1	1.02	1.32
4:CF:120:ARG:CD	4:KF:116:GLU:OE2	1.75	1.32
6:hF:9:VAL:CG2	7:iF:1:MET:CE	2.04	1.32
6:W2:142:ARG:CD	29:W2:202:PEB:CBA	2.07	1.32
12:E5:186:PRO:HG2	6:bI:57:ASP:CB	1.57	1.32
3:B9:174:GLU:OE2	26:ZP:80:SER:C	1.73	1.32
6:EB:54:GLU:OE1	29:EB:202:PEB:CMC	1.78	1.32
18:MC:242:LYS:CG	29:SF:202:PEB:CBB	2.01	1.32
5:J1:17:GLU:CB	15:bB:340:GLU:HG2	1.60	1.32
4:CI:116:GLU:OE2	4:KI:120:ARG:CD	1.76	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JK:18:PHE:N	15:bM:335:ILE:HD13	1.40	1.32
19:zL:363:ARG:HB2	21:LP:62:TYR:CE1	1.65	1.32
8:eR:153:GLN:NE2	7:XR:108:ARG:NH1	1.77	1.32
6:j1:5:ILE:HB	7:k1:3:ASP:OD2	1.30	1.31
6:W7:140:VAL:HG13	6:W7:145:SER:C	1.55	1.31
6:jB:54:GLU:OE1	29:jB:202:PEB:CBC	1.78	1.31
7:M4:124:THR:N	6:UF:69:PRO:HG2	1.44	1.31
7:k7:150:LYS:NZ	7:G8:149:ARG:HE	1.28	1.31
29:BG:201:PEB:CBD	14:MG:126:SER:CB	2.06	1.31
7:FL:144:ASN:ND2	7:FL:153:PHE:HE2	1.19	1.31
7:RM:58:GLY:CA	7:RM:61:CYS:SG	2.18	1.31
7:BQ:61:CYS:SG	29:BQ:203:PEB:CBD	2.17	1.31
6:U2:115:GLU:OE2	6:U2:118:ARG:NH2	1.63	1.31
7:I8:18:TYR:CZ	21:nP:128:GLN:OE1	1.81	1.31
7:JG:108:ARG:HD2	14:MG:257:THR:CG2	1.60	1.31
7:tJ:77:ARG:NH1	16:xJ:212:ARG:HH22	1.27	1.31
6:qJ:33:ARG:NH1	6:qJ:147:GLN:NE2	1.76	1.31
7:ZL:108:ARG:CZ	16:xL:41:ASN:HB2	1.57	1.31
6:WR:142:ARG:HD2	29:WR:202:PEB:CBA	1.54	1.31
7:G4:75:THR:HG23	29:J4:201:PEB:CBD	1.59	1.31
29:FA:201:PEB:HAC2	14:MA:174:ARG:NH1	1.37	1.31
7:FG:137:GLN:HE22	29:FG:203:PEB:CHA	1.41	1.31
7:VK:159:THR:HB	14:MN:103:ARG:NE	1.45	1.31
7:gK:7:ARG:HD2	14:MN:96:LYS:CA	1.58	1.31
7:NM:25:GLN:CG	21:oP:147:LYS:CB	2.07	1.31
6:AQ:38:LEU:HD21	6:AQ:98:VAL:CA	1.59	1.31
8:eR:75:MET:CE	29:NR:201:PEB:CAD	2.07	1.31
7:B5:104:VAL:CG2	18:MC:266:GLY:HA2	1.61	1.30
7:I8:72:MEN:O	7:I8:78:ARG:HD3	1.26	1.30
29:W9:202:PEB:CMA	8:eR:249:TYR:CG	2.15	1.30
7:RB:58:GLY:CA	7:RB:61:CYS:SG	2.18	1.30
7:VK:163:SER:HB2	14:MN:101:LEU:CD1	1.60	1.30
7:M4:54:ASP:OD2	29:M4:203:PEB:HHA1	1.20	1.30
18:MC:277:ARG:NE	5:DF:17:GLU:OE1	1.65	1.30
6:FD:81:LYS:CD	6:FD:84:ARG:CD	2.09	1.30
29:BG:201:PEB:CBC	29:MG:404:PEB:CBD	2.08	1.30
3:B9:209:GLN:NE2	21:sP:128:GLN:HE22	1.23	1.30
3:BK:205:ARG:CZ	20:IP:52:LYS:HE3	1.58	1.30
7:RM:61:CYS:CB	29:RM:203:PEB:HAD1	1.62	1.30
7:RB:61:CYS:CB	29:RB:203:PEB:HAD1	1.62	1.30
7:cI:1:MET:HG3	7:cI:104:VAL:CG2	1.62	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NL:114:LYS:CE	7:NL:176:ILE:O	1.80	1.30
8:eR:222:GLU:OE2	7:TR:112:GLY:HA3	1.15	1.30
6:MR:37:ARG:CG	6:MR:151:GLU:OE1	1.79	1.30
6:F4:33:ARG:HG2	6:H4:25:GLU:OE1	1.21	1.30
7:I5:6:SER:OG	7:I5:26:ALA:HB1	1.16	1.30
7:I5:18:TYR:CZ	21:LP:128:GLN:OE1	1.85	1.30
13:k6:102:TYR:CZ	6:Q7:69:PRO:HG3	1.67	1.30
4:K7:49:GLN:CG	3:BF:228:MET:HG3	1.54	1.30
18:MC:242:LYS:HB2	29:SF:202:PEB:CGB	1.60	1.30
7:VJ:155:ALA:CB	7:NO:66:LEU:HD12	1.61	1.30
6:M2:37:ARG:CG	6:M2:151:GLU:OE1	1.79	1.29
7:B5:107:ASP:OD1	18:MC:264:LEU:HD13	1.32	1.29
11:D5:260:THR:HG23	7:TK:150:LYS:CB	1.60	1.29
5:L9:18:PHE:HE1	20:vP:68:PRO:CD	1.45	1.29
16:wL:179:ALA:HB2	16:xL:37:THR:OG1	1.23	1.29
7:DO:39:ASP:N	29:DO:202:PEB:CMD	1.95	1.29
6:WR:65:TYR:CZ	6:WR:66:LEU:CD1	2.15	1.29
6:I3:139:CYS:SG	29:I3:202:PEB:HAA1	1.72	1.29
7:M4:124:THR:OG1	6:UF:69:PRO:CB	1.78	1.29
7:I5:6:SER:OG	7:I5:26:ALA:CB	1.80	1.29
6:U9:69:PRO:CG	7:TR:123:PRO:CA	2.09	1.29
6:W9:140:VAL:HG13	6:W9:145:SER:C	1.55	1.29
7:NJ:114:LYS:CE	7:NJ:176:ILE:O	1.80	1.29
6:MR:81:LYS:CE	29:MR:201:PEB:CAB	1.91	1.29
6:QR:37:ARG:NH1	6:QR:97:LEU:O	1.62	1.29
6:UR:115:GLU:OE2	6:UR:118:ARG:NH2	1.63	1.29
6:O2:142:ARG:HE	6:IB:76:GLN:NE2	1.29	1.29
7:P2:114:LYS:NZ	6:W7:53:LYS:CG	1.92	1.29
6:BD:1:MET:HE1	6:BD:107:GLU:OE1	1.12	1.29
7:MD:124:THR:OG1	6:UI:69:PRO:CB	1.79	1.29
6:fI:9:VAL:HG23	7:gI:1:MET:CE	1.63	1.29
6:AJ:147:GLN:CD	29:AJ:203:PEB:HMC2	1.55	1.29
7:FJ:144:ASN:ND2	7:FJ:153:PHE:HE2	1.19	1.29
8:eR:85:PRO:HB3	7:NR:107:ASP:C	1.54	1.29
5:J1:17:GLU:OE1	15:bB:333:ARG:CD	1.80	1.29
6:U2:139:CYS:SG	29:U2:202:PEB:CAA	2.20	1.29
6:W2:65:TYR:CZ	6:W2:66:LEU:CD1	2.15	1.29
19:zL:343:GLN:NE2	20:GP:61:ARG:CA	1.95	1.29
7:BQ:61:CYS:SG	29:BQ:203:PEB:HBD2	1.70	1.29
7:G4:75:THR:CG2	29:J4:201:PEB:HAD1	1.61	1.29
7:G4:76:ASN:HD21	6:J4:113:ALA:CA	1.46	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H7:150:ILE:HG21	7:ZB:159:THR:CG2	1.61	1.29
7:KD:50:CYS:SG	29:KD:203:PEB:CAA	2.21	1.29
3:BI:205:ARG:HB2	20:PP:76:GLU:OE2	1.22	1.29
6:KQ:2:LYS:NZ	30:MQ:404:PUB:CBB	1.92	1.29
6:B4:1:MET:HE1	6:B4:107:GLU:OE1	1.12	1.28
7:I5:15:LYS:NZ	21:LP:161:SER:O	1.64	1.28
12:E5:182:ASN:ND2	6:bI:80:ASN:ND2	1.79	1.28
4:I9:134:GLN:NE2	13:kH:192:VAL:HG21	1.47	1.28
6:W9:140:VAL:HG13	6:W9:145:SER:O	1.28	1.28
7:VB:85:ASP:OD2	29:VB:201:PEB:HHA1	1.16	1.28
29:BG:201:PEB:CBC	29:MG:404:PEB:HBD1	1.62	1.28
7:FG:50:CYS:C	29:FG:203:PEB:CAA	2.06	1.28
13:kH:234:ASP:O	6:OR:68:ASN:CG	1.75	1.28
5:JK:17:GLU:HB2	15:bM:335:ILE:CG1	1.62	1.28
8:e2:235:SER:OG	29:e2:401:PEB:CAD	1.80	1.28
7:a7:26:ALA:CB	12:E8:40:VAL:CG1	2.09	1.28
12:E8:182:ASN:ND2	6:bF:80:ASN:ND2	1.81	1.28
29:FA:201:PEB:CAC	14:MA:174:ARG:HH11	1.38	1.28
6:fF:9:VAL:HG23	7:gF:1:MET:CE	1.63	1.28
13:kH:118:ARG:O	13:kH:120:ILE:HD12	1.24	1.28
7:HJ:5:PHE:CE2	7:HJ:31:ILE:HD11	1.68	1.28
12:E5:162:ASN:ND2	29:kI:203:PEB:C4B	1.96	1.28
6:UB:53:LYS:HG3	14:MG:100:THR:CB	1.62	1.28
7:FG:141:PHE:CZ	29:FG:203:PEB:HMA2	1.68	1.28
5:JI:63:GLN:HG2	20:PP:73:TYR:OH	1.19	1.28
6:cJ:54:GLU:OE2	6:cJ:137:ARG:NE	1.61	1.28
16:wL:179:ALA:CB	16:xL:37:THR:OG1	1.82	1.28
6:IO:139:CYS:SG	29:IO:202:PEB:HAA1	1.72	1.28
7:JQ:108:ARG:CD	14:MQ:257:THR:HG21	1.60	1.28
5:H9:150:ILE:HG21	7:ZM:159:THR:CG2	1.61	1.28
18:MC:241:ALA:HB2	6:SF:133:TYR:OH	1.23	1.28
5:FF:151:GLY:HA3	29:FF:1002:PEB:O2B	1.33	1.28
7:JG:108:ARG:CD	14:MG:257:THR:CG2	2.12	1.28
3:BI:227:GLU:HG3	20:vP:56:GLN:CD	1.58	1.28
7:VK:159:THR:OG1	14:MN:103:ARG:HG3	1.25	1.28
7:HL:5:PHE:CE2	7:HL:31:ILE:HD11	1.68	1.28
6:F4:81:LYS:CD	6:F4:84:ARG:CD	2.09	1.28
29:K4:202:PEB:CBD	6:L4:33:ARG:NH1	1.97	1.28
4:KF:49:GLN:OE1	9:OO:271:TRP:CH2	1.87	1.28
7:cF:1:MET:HG3	7:cF:104:VAL:CG2	1.62	1.28
3:BI:212:GLN:OE1	27:aP:74:ALA:HB2	1.32	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:147:GLN:CD	29:AL:203:PEB:HMC2	1.55	1.28
6:AQ:38:LEU:HD23	6:AQ:97:LEU:O	1.10	1.28
6:Q2:37:ARG:NH1	6:Q2:97:LEU:O	1.62	1.27
3:BI:221:PHE:CE1	27:aP:81:LEU:HD22	1.69	1.27
5:HI:151:GLY:HA3	29:HI:1002:PEB:O2B	1.33	1.27
6:SL:33:ARG:NE	6:SL:147:GLN:NE2	1.80	1.27
6:AQ:38:LEU:CD2	6:AQ:97:LEU:O	1.81	1.27
7:HQ:137:GLN:N	29:HQ:203:PEB:O1C	1.67	1.27
13:k6:192:VAL:HG21	4:I7:134:GLN:NE2	1.47	1.27
5:H9:23:GLN:CD	13:kH:163:ALA:O	1.78	1.27
6:Q9:69:PRO:HG3	13:kH:102:TYR:CZ	1.67	1.27
3:BF:221:PHE:CE1	27:3P:81:LEU:HD22	1.68	1.27
8:e2:153:GLN:HE22	7:X2:108:ARG:NH2	1.27	1.27
12:E5:209:ARG:HG2	6:II:70:GLY:CA	1.62	1.27
6:AG:38:LEU:HD21	6:AG:98:VAL:CA	1.59	1.27
4:EI:33:ARG:NH1	29:LI:1002:PEB:CBD	1.81	1.27
6:MJ:33:ARG:NH1	6:MJ:147:GLN:HE22	1.24	1.27
7:MO:87:GLU:OE2	7:MO:91:ARG:HD3	1.34	1.27
13:k6:259:SER:CA	6:U7:67:LYS:HZ1	1.48	1.27
29:FE:202:PEB:OD	6:GE:33:ARG:NH2	1.66	1.27
7:FJ:145:THR:OG1	25:YP:514:ILE:HG21	1.15	1.27
7:LJ:26:ALA:O	28:4P:231:ILE:CD1	1.81	1.27
19:zJ:363:ARG:NE	21:nP:62:TYR:HD1	0.79	1.27
6:AL:137:ARG:NH2	29:AL:202:PEB:C4B	1.98	1.27
6:I3:139:CYS:SG	29:I3:202:PEB:CAA	2.23	1.27
5:L9:30:MET:CE	27:3P:237:ALA:CB	2.07	1.27
7:FA:115:GLU:OE1	14:MA:111:ARG:HB3	1.32	1.27
29:FC:202:PEB:OD	6:GC:33:ARG:NH2	1.66	1.27
18:ME:241:ALA:HB2	6:SI:133:TYR:OH	1.16	1.27
6:AG:38:LEU:CD2	6:AG:97:LEU:O	1.81	1.27
7:FJ:143:THR:OG1	25:YP:514:ILE:HG23	1.24	1.27
14:MN:102:LYS:O	14:MN:103:ARG:CZ	1.79	1.27
7:DO:38:LEU:C	29:DO:202:PEB:HMD3	1.59	1.27
7:DQ:61:CYS:SG	29:DQ:203:PEB:CAD	2.22	1.27
7:G5:149:ARG:NH2	7:k9:150:LYS:HE3	1.46	1.26
12:E5:162:ASN:HA	29:kI:203:PEB:O2B	1.15	1.26
15:bB:341:ALA:O	15:bB:349:LYS:HD3	1.21	1.26
7:LC:51:MET:SD	7:LC:141:PHE:HE2	1.58	1.26
7:LE:120:LEU:HD21	18:ME:219:SER:OG	1.18	1.26
18:ME:232:MET:SD	29:SI:202:PEB:CMB	2.23	1.26
6:IG:18:PHE:CE2	14:MG:265:LYS:HE2	1.70	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:pJ:202:PEB:OD	6:qJ:33:ARG:NE	1.66	1.26
4:IK:21:ASN:OD1	4:IK:24:LEU:CD1	1.82	1.26
7:HQ:61:CYS:SG	29:HQ:203:PEB:CBD	2.22	1.26
6:O2:142:ARG:CG	6:IB:76:GLN:OE1	1.81	1.26
6:Q2:138:LEU:HG	6:Q2:143:ASP:OD2	1.12	1.26
6:W7:140:VAL:HG13	6:W7:145:SER:O	1.28	1.26
6:jB:33:ARG:HH12	6:jB:147:GLN:CG	1.48	1.26
7:HG:58:GLY:CA	29:HG:203:PEB:HMD1	1.65	1.26
7:BQ:50:CYS:SG	29:BQ:203:PEB:CAA	1.17	1.26
6:W2:142:ARG:CG	29:W2:202:PEB:HBA3	1.61	1.26
3:B9:207:ARG:HH12	27:aP:61:ARG:NH1	1.34	1.26
18:ME:300:VAL:CG1	6:gL:49:GLU:HG2	1.64	1.26
4:KF:49:GLN:OE1	9:OO:271:TRP:HH2	1.14	1.26
6:ML:147:GLN:NE2	29:PL:202:PEB:HMC2	1.47	1.26
7:DO:39:ASP:OD1	29:DO:202:PEB:CHC	1.81	1.26
7:FQ:137:GLN:NE2	29:FQ:203:PEB:CHA	1.96	1.26
6:QR:142:ARG:CD	29:QR:202:PEB:HBA3	1.62	1.26
9:O3:308:TYR:CE2	4:KI:70:PRO:HD3	1.71	1.26
3:B9:121:ASN:ND2	26:ZP:52:GLY:HA2	1.51	1.26
7:JE:51:MET:SD	7:JE:141:PHE:HE2	1.58	1.26
19:zL:363:ARG:CD	21:LP:62:TYR:CD1	2.19	1.26
6:UM:43:LYS:CD	14:MQ:115:TYR:CE2	2.00	1.26
21:MP:69:GLY:CA	28:bP:41:THR:HG21	1.65	1.26
7:B8:91:ARG:NH2	18:ME:293:MET:CA	1.99	1.26
7:L8:79:MET:CE	13:kH:233:VAL:CG2	2.01	1.26
7:JC:51:MET:SD	7:JC:141:PHE:HE2	1.58	1.26
7:LG:115:GLU:OE2	14:MG:232:LYS:HD3	1.25	1.26
2:AK:103:CYS:HB3	30:AK:305:PUB:CAA	1.66	1.26
7:gK:171:ARG:NH2	14:MN:97:PHE:CZ	2.02	1.26
2:A1:103:CYS:HB3	30:A1:305:PUB:CAA	1.66	1.25
7:G4:75:THR:HA	29:J4:201:PEB:CBD	1.64	1.25
7:G4:75:THR:CB	29:J4:201:PEB:HBD2	1.65	1.25
7:B5:108:ARG:NH2	18:MC:268:VAL:HB	1.51	1.25
7:BE:51:MET:SD	7:BE:141:PHE:HE2	1.58	1.25
5:DF:151:GLY:HA3	29:DF:1002:PEB:O2B	1.33	1.25
7:LG:109:CYS:O	14:MG:236:TYR:HE1	1.15	1.25
6:AJ:137:ARG:NH2	29:AJ:202:PEB:C4B	1.98	1.25
4:MK:19:LEU:HD11	5:NK:98:ILE:CD1	1.48	1.25
7:FQ:50:CYS:SG	29:FQ:203:PEB:CAA	2.23	1.25
18:ME:304:TRP:HE1	6:gL:87:ASP:CB	1.47	1.25
3:BI:227:GLU:CD	20:vP:60:GLN:NE2	1.94	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wJ:86:CYS:HB2	30:wJ:305:PUB:CAA	1.66	1.25
7:ZL:108:ARG:CZ	16:xL:41:ASN:HB3	1.63	1.25
7:NO:87:GLU:OE2	7:NO:91:ARG:HD3	1.36	1.25
6:MR:37:ARG:HG2	6:MR:151:GLU:OE1	1.29	1.25
4:II:21:ASN:OD1	4:II:24:LEU:CD1	1.82	1.25
5:N1:33:GLU:HG3	5:N1:36:GLN:CB	1.66	1.25
8:e2:148:LEU:HD11	7:X2:108:ARG:NH2	1.49	1.25
6:O2:142:ARG:HB2	6:IB:76:GLN:OE1	1.14	1.25
7:IF:79:MET:SD	15:bB:229:LEU:CG	2.24	1.25
13:kH:232:PHE:CD2	6:OR:69:PRO:HG2	1.70	1.25
29:IJ:202:PEB:OD	6:mJ:33:ARG:NH1	1.69	1.25
6:kL:68:ASN:ND2	6:kL:71:GLU:OE2	1.70	1.25
6:mL:68:ASN:ND2	6:mL:71:GLU:OE2	1.70	1.25
7:LE:51:MET:SD	7:LE:141:PHE:HE2	1.58	1.25
7:VM:85:ASP:OD2	29:VM:201:PEB:HHA1	1.16	1.25
7:M3:87:GLU:OE2	7:M3:91:ARG:HD3	1.34	1.25
10:d4:335:LEU:CD1	10:dD:331:GLN:CD	2.08	1.25
3:B9:172:LYS:HB3	26:ZP:86:PRO:CD	1.64	1.25
7:DC:51:MET:SD	7:DC:141:PHE:HE2	1.58	1.25
3:B1:17:VAL:CG1	31:N1:1001:CYC:NB	1.99	1.25
3:B1:205:ARG:HE	20:JP:52:LYS:CE	1.49	1.25
7:N3:91:ARG:NH2	9:O3:400:VAL:CG2	2.00	1.25
7:BC:51:MET:SD	7:BC:141:PHE:HE2	1.58	1.25
18:MC:308:ILE:CD1	7:vJ:64:PRO:CD	2.14	1.25
6:FD:81:LYS:O	6:FD:84:ARG:HG2	1.36	1.25
7:DE:51:MET:SD	7:DE:141:PHE:HE2	1.58	1.25
7:FQ:50:CYS:SG	29:FQ:203:PEB:HAA1	1.74	1.25
8:eR:271:GLU:OE2	7:TR:72:MEN:ND2	1.69	1.25
8:e2:235:SER:OG	29:e2:401:PEB:C3D	1.85	1.24
1:X7:263:THR:CG2	5:D7:115:GLU:OE2	1.84	1.24
6:IA:37:ARG:HG2	6:IA:97:LEU:O	1.37	1.24
5:LF:151:GLY:HA3	29:LF:1002:PEB:O2B	1.33	1.24
7:FG:61:CYS:HB3	29:FG:203:PEB:CBD	1.65	1.24
6:QJ:68:ASN:ND2	6:QJ:71:GLU:OE2	1.70	1.24
6:YL:68:ASN:ND2	6:YL:71:GLU:OE2	1.70	1.24
5:F7:71:GLY:O	5:F7:78:ARG:NH1	1.71	1.24
6:UB:67:LYS:HD3	14:MG:97:PHE:CZ	1.71	1.24
3:BI:227:GLU:CD	20:vP:60:GLN:HE21	1.43	1.24
6:SL:33:ARG:CZ	6:SL:147:GLN:HE22	1.48	1.24
6:gL:68:ASN:ND2	6:gL:71:GLU:OE2	1.70	1.24
7:DN:113:LEU:HD23	14:MN:280:PHE:CE1	1.72	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EN:1:MET:HG2	14:MN:196:ASN:ND2	1.52	1.24
21:dP:90:ARG:CZ	20:eP:15:ALA:HA	1.65	1.24
6:U9:67:LYS:NZ	13:kH:259:SER:CA	2.01	1.24
6:AG:38:LEU:HD23	6:AG:97:LEU:O	1.10	1.24
6:aJ:68:ASN:ND2	6:aJ:71:GLU:OE2	1.70	1.24
6:kJ:13:ASP:O	16:xJ:187:ARG:NH1	1.71	1.24
19:zJ:363:ARG:NH2	31:pP:1001:CYC:O1A	1.70	1.24
6:aL:68:ASN:ND2	6:aL:71:GLU:OE2	1.70	1.24
6:eL:68:ASN:ND2	6:eL:71:GLU:OE2	1.70	1.24
6:IO:139:CYS:SG	29:IO:202:PEB:CAA	2.23	1.24
7:D3:39:ASP:OD1	29:D3:202:PEB:CHC	1.83	1.24
7:I8:158:CYS:SG	29:I8:202:PEB:CBA	2.26	1.24
1:X9:263:THR:CG2	5:D9:115:GLU:OE2	1.84	1.24
3:B9:121:ASN:ND2	26:ZP:52:GLY:CA	1.99	1.24
29:W9:202:PEB:HMA1	8:eR:249:TYR:CB	1.67	1.24
15:bB:355:LEU:CD2	6:MB:53:LYS:NZ	2.01	1.24
29:BC:202:PEB:OD	6:CC:33:ARG:NH2	1.70	1.24
5:FI:151:GLY:HA3	29:FI:1002:PEB:O2B	1.33	1.24
5:JK:18:PHE:CD1	15:bM:335:ILE:HD11	1.72	1.24
29:IL:202:PEB:OD	6:mL:33:ARG:NH1	1.69	1.24
6:AQ:2:LYS:HZ2	30:MQ:405:PUB:CAB	1.44	1.24
6:SR:51:VAL:CG1	6:SR:137:ARG:NH2	1.99	1.24
6:W2:96:CYS:SG	6:W2:105:LEU:HG	1.78	1.24
7:I5:158:CYS:SG	29:I5:202:PEB:CBA	2.26	1.24
10:dD:285:VAL:HG11	29:TI:202:PEB:O1B	1.29	1.24
3:BI:227:GLU:CG	20:vP:56:GLN:CD	2.07	1.24
6:AJ:139:CYS:SG	29:AJ:202:PEB:C4A	2.26	1.24
6:MJ:68:ASN:ND2	6:MJ:71:GLU:OE2	1.70	1.24
6:oJ:68:ASN:ND2	6:oJ:71:GLU:OE2	1.70	1.24
6:S2:51:VAL:CG1	6:S2:137:ARG:NH2	1.99	1.23
7:RB:61:CYS:HB2	29:RB:203:PEB:CBD	1.68	1.23
7:LE:120:LEU:CD1	18:ME:213:THR:CG2	2.16	1.23
6:EJ:68:ASN:ND2	6:EJ:71:GLU:OE2	1.70	1.23
8:eR:235:SER:OG	29:eR:401:PEB:CAD	1.86	1.23
3:B1:13:GLN:CB	3:B1:15:GLN:HE22	1.50	1.23
3:B1:205:ARG:NH2	20:JP:52:LYS:CG	1.98	1.23
8:e2:77:PHE:CE1	8:e2:84:LYS:NZ	2.06	1.23
8:e2:153:GLN:NE2	7:X2:108:ARG:NH1	1.79	1.23
7:D3:39:ASP:N	29:D3:202:PEB:CMD	2.01	1.23
7:k7:150:LYS:HE3	7:G8:149:ARG:NH2	1.50	1.23
18:MC:136:LYS:HE3	18:MC:212:TYR:OH	1.36	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VK:163:SER:CB	14:MN:101:LEU:HD12	1.69	1.23
16:wL:86:CYS:HB2	30:wL:305:PUB:CAA	1.67	1.23
17:BM:182:GLU:CD	29:BM:301:PEB:CMD	2.07	1.23
8:eR:122:SER:O	29:VR:201:PEB:CBC	1.85	1.23
6:QR:96:CYS:SG	6:QR:105:LEU:HG	1.78	1.23
6:H4:137:ARG:NH1	29:H4:202:PEB:C4B	2.02	1.23
7:L5:79:MET:CE	13:k6:233:VAL:CG2	2.03	1.23
15:bB:202:THR:HG23	15:bB:203:PRO:CD	1.69	1.23
17:BB:182:GLU:CD	29:BB:301:PEB:CMD	2.07	1.23
5:NK:33:GLU:HG3	5:NK:36:GLN:CB	1.66	1.23
6:QL:68:ASN:ND2	6:QL:71:GLU:OE2	1.70	1.23
7:NK:129:ARG:HG3	28:4P:121:HIS:CG	1.71	1.23
6:Q2:96:CYS:SG	6:Q2:105:LEU:HG	1.78	1.23
6:uL:161:ASN:O	16:xL:92:LYS:NZ	1.71	1.23
15:bM:202:THR:HG23	15:bM:203:PRO:CD	1.69	1.23
12:E8:162:ASN:CA	29:kF:203:PEB:O2B	1.85	1.23
3:B9:225:VAL:HA	3:B9:228:MET:CE	1.69	1.23
5:DI:151:GLY:HA3	29:DI:1002:PEB:O2B	1.33	1.23
7:aI:1:MET:O	7:aI:2:LEU:HD12	1.38	1.23
5:JK:35:ASN:O	5:JK:39:ASP:OD1	1.56	1.23
29:FQ:201:PEB:HMC2	14:MQ:181:TYR:CD2	1.57	1.23
6:WR:96:CYS:SG	6:WR:105:LEU:HG	1.78	1.23
6:M2:139:CYS:HB3	29:M2:202:PEB:CBA	1.65	1.22
6:S2:51:VAL:CG1	6:S2:137:ARG:HH22	1.52	1.22
12:E5:40:VAL:CG1	7:a9:26:ALA:CB	2.17	1.22
8:eR:77:PHE:CE1	8:eR:84:LYS:NZ	2.06	1.22
8:eR:80:GLU:OE2	7:NR:115:GLU:HG2	1.28	1.22
6:UR:43:LYS:CB	6:UR:144:MET:HE2	1.68	1.22
7:D3:38:LEU:C	29:D3:202:PEB:HMD3	1.62	1.22
7:B5:108:ARG:NE	18:MC:266:GLY:O	1.71	1.22
7:G5:149:ARG:NE	7:k9:150:LYS:NZ	1.87	1.22
12:E5:162:ASN:ND2	29:kI:203:PEB:C1B	2.03	1.22
6:J8:18:PHE:CE2	7:K8:91:ARG:HG2	1.74	1.22
18:MC:240:ARG:CD	6:SF:133:TYR:HE1	1.51	1.22
18:ME:200:ARG:HG3	18:ME:237:PHE:CD1	1.73	1.22
7:aF:1:MET:O	7:aF:2:LEU:HD12	1.38	1.22
6:AG:2:LYS:NZ	30:MG:403:PUB:CAB	2.03	1.22
6:cJ:72:ALA:CB	29:cJ:201:PEB:CMA	2.11	1.22
6:eJ:68:ASN:ND2	6:eJ:71:GLU:OE2	1.70	1.22
6:gJ:68:ASN:ND2	6:gJ:71:GLU:OE2	1.70	1.22
6:uJ:68:ASN:ND2	6:uJ:71:GLU:OE2	1.70	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:139:CYS:SG	29:AL:202:PEB:C4A	2.26	1.22
6:ML:68:ASN:ND2	6:ML:71:GLU:OE2	1.70	1.22
10:d4:335:LEU:HD13	10:dD:331:GLN:CD	1.60	1.22
12:E8:162:ASN:ND2	29:kF:203:PEB:C1B	2.02	1.22
12:E8:208:ALA:HB3	6:lF:74:GLU:OE1	1.32	1.22
7:JC:73:CYS:O	7:JC:79:MET:SD	1.97	1.22
7:DE:73:CYS:O	7:DE:79:MET:SD	1.97	1.22
7:TF:85:ASP:OD2	29:TF:201:PEB:NB	1.73	1.22
6:mJ:68:ASN:ND2	6:mJ:71:GLU:OE2	1.70	1.22
6:jK:5:ILE:HB	7:kK:3:ASP:OD2	1.30	1.22
16:wL:183:LYS:CG	16:xL:40:VAL:CG1	2.18	1.22
6:QR:142:ARG:CD	29:QR:202:PEB:CBA	2.15	1.22
3:B1:17:VAL:CG1	31:N1:1001:CYC:HB	1.53	1.22
6:O2:65:TYR:HB2	13:k6:236:GLN:NE2	1.34	1.22
6:F4:81:LYS:O	6:F4:84:ARG:HG2	1.36	1.22
13:k6:259:SER:CA	6:U7:67:LYS:NZ	2.01	1.22
3:B7:121:ASN:ND2	26:2P:52:GLY:HA2	1.52	1.22
7:L8:107:ASP:OD1	4:I9:61:ASN:HA	1.37	1.22
15:bB:341:ALA:O	15:bB:349:LYS:CD	1.86	1.22
6:cJ:133:TYR:CE1	6:cJ:137:ARG:HD2	1.74	1.22
5:JK:145:THR:HG21	5:JK:150:ILE:CD1	1.69	1.22
6:EL:68:ASN:ND2	6:EL:71:GLU:OE2	1.70	1.22
4:I1:21:ASN:OD1	4:I1:24:LEU:HD12	1.09	1.22
5:J1:145:THR:HG21	5:J1:150:ILE:CD1	1.69	1.22
6:O2:68:ASN:OD1	13:k6:234:ASP:O	1.58	1.22
7:N3:87:GLU:OE2	7:N3:91:ARG:HD3	1.36	1.22
7:G4:75:THR:CG2	29:J4:201:PEB:CAD	2.16	1.22
7:I4:1:MET:CE	7:I4:108:ARG:NH1	2.03	1.22
7:BC:73:CYS:O	7:BC:79:MET:SD	1.97	1.22
18:MC:236:ASP:OD2	29:SF:202:PEB:C2A	1.73	1.22
6:JD:9:VAL:HG13	7:KD:95:TYR:CD1	1.74	1.22
5:Nf:151:GLY:HA3	29:Nf:1002:PEB:O2B	1.36	1.22
19:zJ:343:GLN:NE2	20:iP:61:ARG:CA	2.01	1.22
17:yL:111:CYS:CB	30:yL:303:PUB:CBA	2.18	1.22
19:zL:343:GLN:HG2	20:GP:60:GLN:O	1.38	1.22
8:eR:222:GLU:OE2	7:TR:112:GLY:CA	1.87	1.22
6:M2:139:CYS:CB	29:M2:202:PEB:CBA	2.11	1.21
12:E5:208:ALA:HB3	6:II:74:GLU:OE1	1.40	1.21
7:MD:124:THR:OG1	6:UI:69:PRO:HB3	1.11	1.21
29:BE:202:PEB:OD	6:CE:33:ARG:NH2	1.72	1.21
5:JI:151:GLY:HA3	29:JI:1002:PEB:O2B	1.38	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LI:151:GLY:HA3	29:LI:1002:PEB:O2B	1.33	1.21
6:YJ:68:ASN:ND2	6:YJ:71:GLU:OE2	1.70	1.21
19:zJ:363:ARG:CD	21:nP:62:TYR:HD1	1.29	1.21
6:cL:72:ALA:CB	29:cL:201:PEB:CMA	2.11	1.21
7:jL:115:GLU:OE1	16:wL:56:THR:OG1	1.55	1.21
6:oL:68:ASN:ND2	6:oL:71:GLU:OE2	1.70	1.21
6:WR:65:TYR:CE1	6:WR:66:LEU:CD1	2.24	1.21
6:J4:9:VAL:HG13	7:K4:95:TYR:CD1	1.74	1.21
3:B7:174:GLU:OE2	26:2P:80:SER:C	1.83	1.21
6:U9:83:TYR:CD2	13:kH:261:MET:HG3	1.75	1.21
7:DC:73:CYS:O	7:DC:79:MET:SD	1.97	1.21
18:MC:215:THR:O	18:MC:217:SER:N	1.73	1.21
18:ME:303:PHE:CG	6:gL:83:TYR:CE2	2.27	1.21
5:JK:17:GLU:CA	15:bM:335:ILE:HD13	1.68	1.21
5:JK:17:GLU:OE1	15:bM:333:ARG:HG3	1.38	1.21
29:FN:201:PEB:HBC2	14:MN:174:ARG:NH1	1.43	1.21
6:SR:51:VAL:CG1	6:SR:137:ARG:HH22	1.52	1.21
12:E8:162:ASN:HA	29:kF:203:PEB:O2B	1.09	1.21
5:F9:71:GLY:O	5:F9:78:ARG:NH1	1.71	1.21
6:HD:137:ARG:NH1	29:HD:202:PEB:C4B	2.02	1.21
7:JE:73:CYS:O	7:JE:79:MET:SD	1.97	1.21
29:DG:201:PEB:HBC1	14:MG:276:GLU:OE1	1.39	1.21
7:LG:112:GLY:H	14:MG:232:LYS:NZ	1.39	1.21
3:BI:204:ARG:NH2	21:SP:61:LEU:HD23	1.56	1.21
4:IK:21:ASN:OD1	4:IK:24:LEU:HD12	1.09	1.21
7:gK:7:ARG:CD	14:MN:96:LYS:HA	1.68	1.21
19:zL:363:ARG:HB2	21:LP:62:TYR:CD1	1.73	1.21
6:AN:5:ILE:HD11	6:AN:27:ILE:CD1	1.71	1.21
6:OR:37:ARG:NH1	6:OR:100:GLY:CA	2.03	1.21
6:h1:135:ARG:HH11	6:h1:157:ASP:CG	1.49	1.21
7:G4:58:GLY:CA	29:G4:203:PEB:CMD	2.18	1.21
7:G4:75:THR:HA	29:J4:201:PEB:CAD	1.70	1.21
6:W9:53:LYS:HG2	7:PR:114:LYS:NZ	1.47	1.21
15:bB:202:THR:CG2	15:bB:203:PRO:HD3	1.71	1.21
7:gB:61:CYS:SG	29:gB:203:PEB:HAD1	1.81	1.21
7:BE:73:CYS:O	7:BE:79:MET:SD	1.97	1.21
6:kJ:68:ASN:ND2	6:kJ:71:GLU:OE2	1.70	1.21
6:bK:135:ARG:HH11	6:bK:157:ASP:CG	1.49	1.21
6:uL:68:ASN:ND2	6:uL:71:GLU:OE2	1.70	1.21
16:xL:102:ALA:CA	16:xL:105:ARG:HD2	1.71	1.21
7:RM:61:CYS:HB2	29:RM:203:PEB:CBD	1.68	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:331:GLN:CG	10:dD:331:GLN:NE2	2.04	1.21
29:L5:203:PEB:OD	13:k6:237:ILE:HG21	1.40	1.21
5:HF:151:GLY:HA3	29:HF:1002:PEB:O2B	1.33	1.21
13:kH:236:GLN:NE2	6:OR:65:TYR:HB2	1.41	1.21
6:QJ:74:GLU:N	6:QJ:78:LYS:HD2	1.49	1.21
6:hK:135:ARG:HH11	6:hK:157:ASP:CG	1.49	1.21
6:QM:54:GLU:OE2	29:QM:204:PEB:HMC3	1.37	1.21
5:L1:33:GLU:HG2	5:L1:36:GLN:OE1	1.39	1.20
3:B7:209:GLN:NE2	21:QP:128:GLN:HE22	1.29	1.20
4:E9:79:ILE:HD11	13:kH:220:GLU:C	1.65	1.20
5:L9:18:PHE:CE1	20:vP:68:PRO:CD	2.22	1.20
6:UB:43:LYS:CD	14:MG:115:TYR:CE2	2.06	1.20
18:ME:304:TRP:NE1	6:gL:87:ASP:CB	2.03	1.20
6:jM:33:ARG:HH12	6:jM:147:GLN:CD	1.47	1.20
7:NO:91:ARG:NH2	9:OO:400:VAL:CG2	2.04	1.20
7:P2:114:LYS:NZ	6:W7:53:LYS:HG2	1.37	1.20
7:G4:58:GLY:HA3	29:G4:203:PEB:C2D	1.72	1.20
7:I5:7:ARG:HH21	28:bP:88:LEU:CD2	1.51	1.20
4:M7:5:ILE:HB	5:N7:3:ASP:OD2	1.41	1.20
4:CF:33:ARG:NH1	29:NF:1002:PEB:CBD	1.93	1.20
6:iJ:65:TYR:CD2	6:iJ:71:GLU:OE1	1.94	1.20
6:QL:74:GLU:N	6:QL:78:LYS:HD2	1.49	1.20
6:iL:161:ASN:O	16:wL:92:LYS:NZ	1.74	1.20
6:UM:43:LYS:HD2	14:MQ:115:TYR:HE2	1.04	1.20
7:gM:61:CYS:SG	29:gM:203:PEB:HAD1	1.81	1.20
7:FN:115:GLU:OE1	14:MN:111:ARG:HB3	1.42	1.20
6:W2:65:TYR:CE1	6:W2:66:LEU:CD1	2.24	1.20
9:O3:271:TRP:CH2	4:KI:49:GLN:OE1	1.93	1.20
7:B8:91:ARG:CZ	18:ME:293:MET:HB2	1.68	1.20
7:I8:1:MET:CG	28:4P:118:LEU:CD2	2.19	1.20
7:K8:79:MET:HE2	7:LO:164:GLU:OE1	1.40	1.20
16:xJ:53:ALA:O	16:xJ:57:LYS:HG2	1.42	1.20
16:wL:102:ALA:CA	16:wL:105:ARG:HD2	1.71	1.20
16:xL:53:ALA:O	16:xL:57:LYS:HG2	1.42	1.20
17:yL:111:CYS:CB	30:yL:303:PUB:HBA1	1.71	1.20
19:zL:332:LEU:CD2	20:NP:63:PRO:C	2.15	1.20
19:zL:363:ARG:HD2	21:LP:62:TYR:O	1.41	1.20
20:EP:14:GLU:HG3	25:YP:509:PHE:CE1	1.76	1.20
8:eR:154:TYR:OH	29:XR:201:PEB:CBC	1.88	1.20
6:M2:37:ARG:HG2	6:M2:151:GLU:OE1	1.29	1.20
13:k6:261:MET:HG3	6:U7:83:TYR:CD2	1.75	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NB:129:ARG:HG3	28:bP:121:HIS:CG	1.77	1.20
7:ID:1:MET:CE	7:ID:108:ARG:NH1	2.03	1.20
5:NI:151:GLY:HA3	29:NI:1002:PEB:O2B	1.36	1.20
19:zJ:363:ARG:CB	21:nP:62:TYR:CD1	2.23	1.20
4:KK:33:ARG:NH2	4:KK:145:GLN:OE1	1.73	1.20
6:lK:135:ARG:HH11	6:lK:157:ASP:CG	1.49	1.20
15:bM:341:ALA:CB	20:mP:68:PRO:CG	2.20	1.20
14:MN:295:PHE:O	14:MN:299:ARG:HG3	1.35	1.20
10:d4:327:SER:OG	10:dD:338:GLU:HG3	1.39	1.20
7:I4:97:LEU:CD1	7:I4:165:VAL:HG23	1.70	1.20
13:k6:220:GLU:C	4:E7:79:ILE:HD11	1.65	1.20
12:E8:183:TYR:CB	6:bF:83:TYR:CE2	2.23	1.20
10:dD:280:SER:HB3	6:WI:69:PRO:O	1.41	1.20
6:JD:9:VAL:CG1	7:KD:95:TYR:CD1	2.25	1.20
18:ME:236:ASP:CB	29:SI:202:PEB:OA	1.90	1.20
7:FG:50:CYS:SG	29:FG:203:PEB:C2A	2.28	1.20
16:wJ:102:ALA:CA	16:wJ:105:ARG:HD2	1.71	1.20
6:iL:65:TYR:CD2	6:iL:71:GLU:OE1	1.94	1.20
7:FQ:141:PHE:HZ	29:FQ:203:PEB:CMA	1.53	1.20
7:N2:84:ARG:O	7:N2:87:GLU:HG2	1.42	1.19
6:O2:37:ARG:NH1	6:O2:100:GLY:CA	2.03	1.19
7:T2:123:PRO:CA	6:U7:69:PRO:CG	2.20	1.19
7:N3:66:LEU:CD1	7:VL:155:ALA:CB	2.18	1.19
10:d4:217:SER:OG	29:I4:201:PEB:HAC1	1.08	1.19
7:B5:108:ARG:HH22	18:MC:268:VAL:CB	1.53	1.19
7:I8:158:CYS:SG	29:I8:202:PEB:CAA	1.10	1.19
7:nJ:108:ARG:NH2	16:xJ:195:TYR:O	1.75	1.19
7:HQ:61:CYS:SG	29:HQ:203:PEB:HBD2	1.80	1.19
6:l1:135:ARG:HH11	6:l1:157:ASP:CG	1.49	1.19
7:V2:61:CYS:SG	29:V2:203:PEB:CAD	2.30	1.19
7:I4:1:MET:CE	7:I4:108:ARG:HH11	1.56	1.19
7:I4:102:ALA:CB	7:I4:105:LEU:HD12	1.73	1.19
7:K5:1:MET:CB	7:K5:104:VAL:HG22	1.66	1.19
7:a7:84:ARG:O	7:a7:88:ILE:HG13	1.40	1.19
12:E8:188:ALA:CB	6:bF:64:ALA:CB	2.20	1.19
6:AA:5:ILE:HD11	6:AA:27:ILE:CD1	1.71	1.19
7:LE:120:LEU:CD1	18:ME:213:THR:HG23	1.73	1.19
18:ME:215:THR:O	18:ME:217:SER:N	1.73	1.19
18:ME:301:ASN:HB3	6:gL:53:LYS:CD	1.73	1.19
5:JF:151:GLY:HA3	29:JF:1002:PEB:O2B	1.38	1.19
5:DI:39:ASP:OD1	29:DI:1002:PEB:HHC1	1.43	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:aI:1:MET:CG	7:aI:104:VAL:HG23	1.73	1.19
15:bM:202:THR:CG2	15:bM:203:PRO:HD3	1.71	1.19
7:FQ:137:GLN:HE22	29:FQ:203:PEB:CHA	1.51	1.19
3:B1:205:ARG:NE	20:JP:52:LYS:CE	2.01	1.19
7:C4:58:GLY:HA2	29:C4:203:PEB:CAD	1.73	1.19
6:W9:53:LYS:CG	7:PR:114:LYS:NZ	2.00	1.19
7:NB:25:GLN:CG	21:MP:147:LYS:CG	2.09	1.19
6:QB:54:GLU:OE2	29:QB:204:PEB:HMC3	1.37	1.19
19:zL:363:ARG:HA	21:LP:62:TYR:CD2	1.76	1.19
19:zL:363:ARG:CB	21:LP:62:TYR:CD1	2.24	1.19
15:bM:374:THR:OG1	21:oP:63:SER:OG	1.56	1.19
7:NM:25:GLN:HG2	21:oP:147:LYS:CB	1.70	1.19
8:eR:235:SER:OG	29:eR:401:PEB:HAD1	1.40	1.19
6:b1:135:ARG:HH11	6:b1:157:ASP:CG	1.49	1.19
6:Q2:142:ARG:CD	29:Q2:202:PEB:HBA3	1.72	1.19
7:L3:164:GLU:OE1	7:K5:79:MET:HE2	1.34	1.19
7:I5:158:CYS:SG	29:I5:202:PEB:CAA	1.10	1.19
29:I7:202:PEB:H3A1	12:E8:233:TYR:OH	1.40	1.19
7:LG:136:ALA:HB3	29:LG:203:PEB:CGC	1.70	1.19
5:HI:39:ASP:OD1	29:HI:1002:PEB:HHC1	1.43	1.19
6:SJ:33:ARG:HH12	6:SJ:147:GLN:CG	1.44	1.19
5:JK:17:GLU:C	15:bM:335:ILE:HD13	1.68	1.19
14:MQ:111:ARG:HE	29:MQ:401:PEB:HAB1	1.05	1.19
6:QR:135:ARG:O	6:QR:138:LEU:CD2	1.90	1.19
6:UR:43:LYS:HB3	6:UR:144:MET:HE2	1.21	1.19
5:H1:152:ASP:HA	11:D8:219:TYR:CZ	1.73	1.19
6:J4:9:VAL:CG1	7:K4:95:TYR:CD1	2.25	1.19
7:I5:45:VAL:O	28:bP:120:PRO:HG3	1.40	1.19
12:E5:183:TYR:CB	6:bI:83:TYR:CE2	2.24	1.19
4:E9:79:ILE:CG1	13:kH:220:GLU:O	1.91	1.19
5:JF:22:THR:CB	27:3P:92:PRO:HG2	1.73	1.19
6:IN:37:ARG:HG2	6:IN:97:LEU:O	1.37	1.19
7:M4:51:MET:HE1	7:M4:137:GLN:CB	1.71	1.18
3:B7:197:PHE:HB3	21:QP:50:THR:OG1	1.04	1.18
7:I8:1:MET:HG2	28:4P:118:LEU:HD21	1.22	1.18
1:X9:263:THR:O	5:D9:115:GLU:OE1	1.62	1.18
7:LC:116:THR:HB	18:MC:213:THR:CB	1.72	1.18
18:MC:236:ASP:O	29:SF:202:PEB:CMB	1.90	1.18
7:ID:102:ALA:CB	7:ID:105:LEU:HD12	1.73	1.18
18:ME:136:LYS:HE3	18:ME:212:TYR:OH	1.36	1.18
5:FF:39:ASP:OD1	29:FF:1002:PEB:HHC1	1.43	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:aF:1:MET:CG	7:aF:104:VAL:HG23	1.73	1.18
16:xJ:102:ALA:CA	16:xJ:105:ARG:HD2	1.71	1.18
17:yJ:111:CYS:CB	30:yJ:303:PUB:CBA	2.21	1.18
8:eR:57:PHE:CE2	7:TR:80:ALA:HB3	1.77	1.18
6:U2:139:CYS:SG	29:U2:202:PEB:CBA	1.09	1.18
6:F4:29:GLY:O	6:F4:32:GLN:OE1	1.61	1.18
6:W7:140:VAL:HG11	6:W7:146:ALA:CA	1.73	1.18
12:E8:162:ASN:HD22	29:kF:203:PEB:C3B	1.55	1.18
17:BB:75:LYS:HA	7:LB:115:GLU:OE1	1.01	1.18
18:MC:268:VAL:HG11	7:PF:148:GLU:O	1.03	1.18
5:DF:39:ASP:OD1	29:DF:1002:PEB:HHC1	1.43	1.18
16:AM:61:ASP:OD2	16:AM:146:PRO:HD2	1.42	1.18
6:UR:37:ARG:HD3	6:UR:151:GLU:OE2	1.43	1.18
7:G4:58:GLY:HA3	29:G4:203:PEB:CMD	1.72	1.18
7:B5:104:VAL:HG23	18:MC:266:GLY:N	1.55	1.18
7:RB:57:SER:O	7:RB:61:CYS:SG	2.02	1.18
7:JG:108:ARG:NH1	14:MG:257:THR:HG23	1.58	1.18
5:FI:39:ASP:OD1	29:FI:1002:PEB:HHC1	1.43	1.18
19:zJ:362:GLY:C	21:nP:62:TYR:CE2	2.21	1.18
5:JK:18:PHE:HD1	15:bM:335:ILE:CD1	1.55	1.18
5:LK:33:GLU:HG2	5:LK:36:GLN:OE1	1.39	1.18
3:B1:205:ARG:NH2	20:JP:52:LYS:HE3	1.57	1.18
6:H4:114:ARG:HD2	6:J4:118:ARG:NH1	1.58	1.18
7:k7:150:LYS:NZ	7:G8:149:ARG:NE	1.89	1.18
6:W9:140:VAL:HG11	6:W9:146:ALA:CA	1.73	1.18
5:JF:65:GLN:HG2	20:rP:68:PRO:HG3	1.19	1.18
6:bF:33:ARG:NH2	29:eF:202:PEB:OD	1.77	1.18
7:TK:97:LEU:HD13	7:TK:165:VAL:CG2	1.74	1.18
7:cK:97:LEU:HD13	7:cK:165:VAL:CG2	1.74	1.18
7:eK:97:LEU:HD13	7:eK:165:VAL:CG2	1.74	1.18
19:zL:362:GLY:C	21:LP:62:TYR:CE2	2.22	1.18
6:GM:138:LEU:HD13	29:GM:202:PEB:CMD	1.68	1.18
7:FQ:50:CYS:C	29:FQ:203:PEB:HAA1	1.67	1.18
7:VR:61:CYS:SG	29:VR:203:PEB:CAD	2.30	1.18
3:B1:11:SER:O	3:B1:16:ARG:NH1	1.74	1.18
5:J1:35:ASN:O	5:J1:39:ASP:OD1	1.56	1.18
7:P1:97:LEU:HD13	7:P1:165:VAL:CG2	1.74	1.18
7:V1:97:LEU:HD13	7:V1:165:VAL:CG2	1.74	1.18
7:c1:97:LEU:HD13	7:c1:165:VAL:CG2	1.74	1.18
6:S2:85:ASP:OD1	29:S2:201:PEB:H1D1	1.40	1.18
7:B5:104:VAL:CG2	18:MC:266:GLY:CA	2.20	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:61:ARG:NH1	7:V7:150:LYS:HB2	1.58	1.18
3:B7:121:ASN:ND2	26:2P:52:GLY:CA	2.06	1.18
7:I8:45:VAL:O	28:4P:120:PRO:HG3	1.43	1.18
7:LC:120:LEU:HD21	18:MC:219:SER:HB2	1.22	1.18
7:ID:97:LEU:CD1	7:ID:165:VAL:HG23	1.70	1.18
29:KD:202:PEB:HBD1	6:LD:33:ARG:NH1	1.59	1.18
3:BI:224:MET:CE	5:JI:152:ASP:HA	1.72	1.18
15:bM:335:ILE:CG2	15:bM:340:GLU:CB	2.22	1.18
7:NM:25:GLN:HG3	21:oP:147:LYS:CB	1.69	1.18
7:RM:57:SER:O	7:RM:61:CYS:SG	2.02	1.18
6:OR:142:ARG:HH22	29:OR:202:PEB:C2B	1.57	1.18
7:N3:70:GLY:C	7:VL:154:ALA:HB1	1.68	1.17
6:U9:69:PRO:HG3	7:TR:123:PRO:CB	1.73	1.17
7:a9:84:ARG:O	7:a9:88:ILE:HG13	1.40	1.17
16:AB:61:ASP:OD2	16:AB:146:PRO:HD2	1.42	1.17
18:ME:312:LEU:HD21	7:vL:69:PRO:CD	1.69	1.17
7:FG:58:GLY:N	29:FG:203:PEB:HMD2	1.57	1.17
7:gK:97:LEU:HD13	7:gK:165:VAL:CG2	1.74	1.17
7:g1:97:LEU:HD13	7:g1:165:VAL:CG2	1.74	1.17
7:m1:97:LEU:HD13	7:m1:165:VAL:CG2	1.74	1.17
6:F4:33:ARG:HH22	29:I4:202:PEB:CBD	1.56	1.17
7:I5:77:ARG:HH12	29:I5:201:PEB:CGB	1.58	1.17
6:jB:54:GLU:OE1	29:jB:202:PEB:HBC1	1.42	1.17
6:IE:14:ALA:CB	18:ME:51:PRO:HD3	1.74	1.17
3:BF:219:ALA:HB2	27:3P:60:ALA:C	1.68	1.17
5:HF:39:ASP:OD1	29:HF:1002:PEB:HHC1	1.43	1.17
7:HG:50:CYS:O	29:HG:203:PEB:HAA2	1.03	1.17
6:jI:33:ARG:NH2	29:mI:202:PEB:OD	1.77	1.17
6:AJ:139:CYS:SG	29:AJ:202:PEB:C2A	2.32	1.17
3:BK:205:ARG:HE	20:IP:52:LYS:CE	1.57	1.17
7:PK:97:LEU:HD13	7:PK:165:VAL:CG2	1.74	1.17
7:kK:97:LEU:HD13	7:kK:165:VAL:CG2	1.74	1.17
15:bM:374:THR:OG1	21:oP:63:SER:CB	1.92	1.17
6:AQ:38:LEU:HD22	6:AQ:98:VAL:HA	1.22	1.17
29:e2:401:PEB:HHA1	7:P2:82:CYS:HA	1.20	1.17
7:K8:1:MET:CB	7:K8:104:VAL:HG22	1.66	1.17
6:BD:15:ALA:HB1	6:BD:17:ARG:HD2	1.26	1.17
19:zJ:363:ARG:CB	21:nP:62:TYR:CE1	2.28	1.17
3:BK:205:ARG:NH2	20:IP:52:LYS:CG	2.05	1.17
6:IL:72:ALA:C	29:IL:201:PEB:OA	1.87	1.17
17:BM:182:GLU:CB	29:BM:301:PEB:HMD2	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I3:140:VAL:CG1	6:I3:146:ALA:CA	2.22	1.17
5:L7:30:MET:CE	27:aP:237:ALA:CB	2.16	1.17
17:BB:182:GLU:CB	29:BB:301:PEB:HMD2	1.74	1.17
18:ME:144:ARG:HG3	18:ME:148:GLU:OE2	1.41	1.17
7:PI:2:LEU:HD23	7:PI:6:SER:HB2	1.23	1.17
7:RK:97:LEU:HD13	7:RK:165:VAL:CG2	1.74	1.17
7:iK:97:LEU:HD13	7:iK:165:VAL:CG2	1.74	1.17
7:mK:97:LEU:HD13	7:mK:165:VAL:CG2	1.74	1.17
6:AL:139:CYS:SG	29:AL:202:PEB:C2A	2.32	1.17
6:hM:135:ARG:HD3	6:hM:157:ASP:OD1	1.44	1.17
29:FN:201:PEB:CAC	14:MN:174:ARG:NH1	2.07	1.17
6:IO:140:VAL:CG1	6:IO:146:ALA:CA	2.22	1.17
7:NR:84:ARG:O	7:NR:87:GLU:HG2	1.42	1.17
13:k6:220:GLU:O	4:E7:79:ILE:CG1	1.91	1.17
7:I8:14:ALA:HA	21:nP:124:GLY:HA3	1.26	1.17
6:J8:18:PHE:CD1	6:J8:19:PRO:CD	2.26	1.17
7:a9:62:GLU:OE2	7:a9:129:ARG:CG	1.92	1.17
6:IJ:72:ALA:C	29:IJ:201:PEB:OA	1.87	1.17
7:YK:97:LEU:HD13	7:YK:165:VAL:CG2	1.74	1.17
19:zL:363:ARG:HD3	21:LP:62:TYR:CG	1.80	1.17
17:BM:75:LYS:HA	7:LM:115:GLU:OE1	1.01	1.17
7:R1:97:LEU:HD13	7:R1:165:VAL:CG2	1.74	1.16
7:e1:97:LEU:HD13	7:e1:165:VAL:CG2	1.74	1.16
18:ME:241:ALA:CB	6:SI:133:TYR:OH	1.92	1.16
5:LF:39:ASP:OD1	29:LF:1002:PEB:HHC1	1.43	1.16
6:qJ:33:ARG:NH2	6:qJ:151:GLU:OE2	1.75	1.16
6:WR:9:VAL:HG21	7:XR:1:MET:HE1	1.19	1.16
7:T1:97:LEU:HD13	7:T1:165:VAL:CG2	1.74	1.16
8:e2:87:MET:O	8:e2:91:GLU:CG	1.94	1.16
7:L3:171:ARG:NH2	7:K5:74:TYR:CD1	1.76	1.16
7:I5:158:CYS:SG	29:I5:202:PEB:HAA2	0.82	1.16
12:E5:162:ASN:CA	29:kI:203:PEB:O2B	1.92	1.16
1:X7:263:THR:C	5:D7:115:GLU:OE1	1.88	1.16
6:EB:135:ARG:HD3	6:EB:157:ASP:OD1	1.44	1.16
6:QB:54:GLU:CD	29:QB:204:PEB:CAC	2.19	1.16
6:QB:54:GLU:OE2	29:QB:204:PEB:CAC	1.93	1.16
6:hB:135:ARG:HD3	6:hB:157:ASP:OD1	1.44	1.16
6:jB:33:ARG:NH1	6:jB:147:GLN:CG	2.06	1.16
5:LK:35:ASN:ND2	29:LK:1002:PEB:O1C	1.79	1.16
5:LK:41:VAL:HG11	5:LK:98:ILE:HD11	1.18	1.16
7:HQ:136:ALA:HB3	29:HQ:203:PEB:CGC	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eR:122:SER:O	29:VR:201:PEB:O1C	1.60	1.16
3:B1:17:VAL:HG13	31:N1:1001:CYC:C4B	1.74	1.16
6:M2:17:ARG:HH21	6:O2:2:LYS:NZ	1.42	1.16
12:E5:233:TYR:OH	29:I9:202:PEB:H3A1	1.45	1.16
18:ME:303:PHE:HB2	6:gL:83:TYR:CD2	1.81	1.16
4:EF:33:ARG:NH1	29:LF:1002:PEB:CBD	1.81	1.16
5:JF:26:ALA:CB	27:3P:91:VAL:HG12	1.75	1.16
7:kF:1:MET:HE3	7:kF:104:VAL:CG2	1.75	1.16
7:HG:137:GLN:HE22	29:HG:203:PEB:HHA1	1.04	1.16
13:kH:234:ASP:O	6:OR:68:ASN:ND2	1.79	1.16
6:bI:33:ARG:NH2	29:eI:202:PEB:OD	1.77	1.16
7:jJ:115:GLU:OE1	16:wJ:56:THR:OG1	1.61	1.16
19:zJ:332:LEU:N	20:pP:67:SER:OG	1.75	1.16
7:Y1:97:LEU:HD13	7:Y1:165:VAL:CG2	1.74	1.16
7:i1:97:LEU:HD13	7:i1:165:VAL:CG2	1.74	1.16
7:k1:97:LEU:HD13	7:k1:165:VAL:CG2	1.74	1.16
7:N3:66:LEU:HD12	7:VL:155:ALA:HB3	1.25	1.16
6:J4:54:GLU:OE2	6:J4:137:ARG:NH1	1.79	1.16
11:D5:219:TYR:CZ	5:HK:152:ASP:HA	1.77	1.16
2:A9:34:LEU:CD2	7:Y9:87:GLU:OE2	1.93	1.16
29:FA:201:PEB:CGC	14:MA:174:ARG:HH12	1.59	1.16
6:KA:38:LEU:HG	7:LA:24:LEU:HD21	1.25	1.16
6:QB:54:GLU:OE2	29:QB:204:PEB:HBC1	1.46	1.16
6:fB:135:ARG:HD3	6:fB:157:ASP:OD1	1.44	1.16
18:ME:300:VAL:HG13	6:gL:49:GLU:CG	1.74	1.16
5:JF:39:ASP:OD1	29:JF:1002:PEB:HHC1	1.43	1.16
6:jF:33:ARG:NH2	29:mF:202:PEB:OD	1.77	1.16
13:kH:280:ARG:HG2	13:kH:283:LYS:HZ3	1.04	1.16
5:JI:39:ASP:OD1	29:JI:1002:PEB:HHC1	1.43	1.16
6:WJ:72:ALA:HB3	29:WJ:202:PEB:HMA2	1.25	1.16
7:VK:97:LEU:HD13	7:VK:165:VAL:CG2	1.74	1.16
29:FQ:201:PEB:HMC1	14:MQ:181:TYR:CD2	1.74	1.16
7:a1:97:LEU:HD13	7:a1:165:VAL:CG2	1.74	1.16
8:e2:126:TYR:HB2	29:V2:201:PEB:HAC1	1.24	1.16
6:M2:140:VAL:HG11	6:M2:146:ALA:HA	1.28	1.16
7:L5:103:SER:O	7:L5:107:ASP:OD1	1.61	1.16
1:X9:263:THR:C	5:D9:115:GLU:OE1	1.88	1.16
3:B9:197:PHE:HB3	21:sP:50:THR:OG1	1.00	1.16
29:KD:202:PEB:HBD1	6:LD:33:ARG:CZ	1.75	1.16
18:ME:240:ARG:HD2	6:SI:133:TYR:CE1	1.79	1.16
19:zJ:217:ALA:HB1	19:zJ:218:PRO:HD3	1.27	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:aK:97:LEU:HD13	7:aK:165:VAL:CG2	1.74	1.16
6:WL:72:ALA:HB3	29:WL:202:PEB:HMA2	1.25	1.16
6:QM:54:GLU:CD	29:QM:204:PEB:CAC	2.19	1.16
6:QR:143:ASP:O	6:QR:144:MET:HG3	1.43	1.16
8:e2:92:MET:HE1	8:e2:128:ARG:NH1	1.60	1.15
29:L5:201:PEB:HBC1	13:k6:195:ARG:HH12	1.05	1.15
2:A7:34:LEU:CD2	7:Y7:87:GLU:OE2	1.93	1.15
12:E8:162:ASN:ND2	29:kF:203:PEB:C3B	2.09	1.15
6:UB:53:LYS:HG3	14:MG:100:THR:HG21	1.26	1.15
6:UB:67:LYS:CE	14:MG:97:PHE:CZ	2.28	1.15
7:aI:1:MET:HG2	7:aI:104:VAL:CG2	1.74	1.15
7:IJ:109:CYS:O	16:xJ:176:TYR:OH	1.63	1.15
7:IJ:111:ASN:O	16:xJ:176:TYR:CE1	1.99	1.15
8:eR:153:GLN:NE2	7:XR:108:ARG:HH12	1.33	1.15
8:eR:281:SER:O	7:TR:114:LYS:NZ	1.78	1.15
6:MR:17:ARG:HH21	6:OR:2:LYS:NZ	1.42	1.15
8:e2:77:PHE:CZ	8:e2:84:LYS:NZ	2.14	1.15
6:U2:81:LYS:HE2	29:U2:201:PEB:O2C	1.47	1.15
15:bB:319:VAL:CG2	20:KP:79:ALA:HB1	1.76	1.15
6:dB:135:ARG:HD3	6:dB:157:ASP:OD1	1.44	1.15
6:hB:33:ARG:NH2	6:hB:151:GLU:OE2	1.78	1.15
7:LE:116:THR:HB	18:ME:213:THR:CB	1.74	1.15
14:MG:245:MET:HA	14:MG:245:MET:HE2	1.23	1.15
7:LJ:29:SER:OG	28:4P:231:ILE:HD12	1.41	1.15
7:NJ:114:LYS:HE3	7:NJ:177:SER:CA	1.75	1.15
6:QM:54:GLU:OE2	29:QM:204:PEB:HBC1	1.46	1.15
6:aM:135:ARG:HD3	6:aM:157:ASP:OD1	1.44	1.15
6:KN:131:ILE:HD13	6:KN:159:LEU:HD22	1.16	1.15
6:SR:47:ASN:ND2	29:SR:202:PEB:OD	1.78	1.15
29:K4:202:PEB:HBD1	6:L4:33:ARG:NH2	1.60	1.15
2:A7:34:LEU:HD22	7:Y7:87:GLU:OE2	0.98	1.15
7:a7:26:ALA:HB1	12:E8:40:VAL:HG12	1.19	1.15
7:I8:77:ARG:HH12	29:I8:201:PEB:CGB	1.58	1.15
6:J8:18:PHE:HD1	6:J8:19:PRO:CD	1.58	1.15
29:L8:201:PEB:HBC1	13:kH:195:ARG:HH12	1.07	1.15
6:KA:38:LEU:CG	7:LA:24:LEU:CD2	2.03	1.15
17:BB:75:LYS:CA	7:LB:115:GLU:OE1	1.94	1.15
6:UB:53:LYS:CD	14:MG:100:THR:CG2	2.17	1.15
18:MC:57:MET:O	18:MC:59:GLU:OE2	1.64	1.15
18:ME:229:GLU:CG	18:ME:242:LYS:CE	2.24	1.15
7:PF:2:LEU:HD23	7:PF:6:SER:HB2	1.23	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LI:39:ASP:OD1	29:LI:1002:PEB:HHC1	1.43	1.15
6:IL:72:ALA:O	29:IL:201:PEB:OA	1.63	1.15
6:WL:72:ALA:HB3	29:WL:202:PEB:CMA	1.76	1.15
19:zL:363:ARG:CD	21:LP:62:TYR:HD1	1.57	1.15
6:IN:38:LEU:HG	7:JN:24:LEU:HD23	1.16	1.15
7:DO:39:ASP:OD1	29:DO:202:PEB:HMD2	1.46	1.15
7:FQ:50:CYS:SG	29:FQ:203:PEB:C2A	2.34	1.15
7:g1:101:ASP:OD1	14:MA:98:LEU:CD1	1.94	1.15
6:O2:142:ARG:NH1	6:IB:76:GLN:HG2	1.61	1.15
7:I8:158:CYS:SG	29:I8:202:PEB:HAA2	0.82	1.15
4:M9:5:ILE:HB	5:N9:3:ASP:OD2	1.46	1.15
18:ME:61:VAL:HB	18:ME:98:LEU:HB3	1.19	1.15
18:ME:229:GLU:CG	18:ME:242:LYS:HZ3	1.46	1.15
7:aF:1:MET:HG2	7:aF:104:VAL:CG2	1.74	1.15
19:zJ:332:LEU:HD21	20:pP:63:PRO:C	1.72	1.15
6:QM:54:GLU:OE2	29:QM:204:PEB:CAC	1.93	1.15
6:UM:135:ARG:HD3	6:UM:157:ASP:OD1	1.44	1.15
6:WM:135:ARG:HD3	6:WM:157:ASP:OD1	1.44	1.15
6:CO:48:HIS:NE2	6:CO:49:GLU:CD	2.05	1.15
21:hP:71:MEN:OD1	21:hP:122:PRO:HD3	1.43	1.15
7:HQ:140:ALA:HB1	29:HQ:203:PEB:HBB2	1.29	1.15
8:eR:92:MET:HE1	8:eR:128:ARG:NH1	1.60	1.15
6:Q2:139:CYS:SG	6:Q2:142:ARG:HD3	1.85	1.15
6:W2:142:ARG:HD3	29:W2:202:PEB:HHA1	1.26	1.15
12:E5:183:TYR:CE2	6:bI:83:TYR:CB	2.29	1.15
1:X9:263:THR:HG22	5:D9:115:GLU:OE2	0.97	1.15
6:CB:135:ARG:HD3	6:CB:157:ASP:OD1	1.44	1.15
6:aB:135:ARG:HD3	6:aB:157:ASP:OD1	1.44	1.15
18:ME:215:THR:O	18:ME:218:GLY:N	1.80	1.15
18:ME:304:TRP:CZ2	6:gL:87:ASP:OD1	1.99	1.15
1:XF:105:LYS:NZ	7:aF:91:ARG:NH2	1.95	1.15
7:LG:137:GLN:NE2	29:LG:203:PEB:HHA1	1.62	1.15
6:WJ:72:ALA:HB3	29:WJ:202:PEB:CMA	1.76	1.15
7:NL:114:LYS:HE3	7:NL:177:SER:CA	1.75	1.15
6:CM:135:ARG:HD3	6:CM:157:ASP:OD1	1.44	1.15
7:RM:61:CYS:CB	29:RM:203:PEB:CAD	2.24	1.15
7:DO:39:ASP:OD1	29:DO:202:PEB:CMD	1.95	1.15
7:FQ:50:CYS:SG	29:FQ:203:PEB:CBA	2.35	1.15
7:B5:108:ARG:NH2	18:MC:268:VAL:N	1.95	1.14
1:X7:263:THR:O	5:D7:115:GLU:OE1	1.62	1.14
7:ID:1:MET:CE	7:ID:108:ARG:HH11	1.56	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ID:1:MET:HE3	7:ID:108:ARG:HH11	1.07	1.14
18:ME:312:LEU:HD23	7:vL:68:SER:OG	1.46	1.14
6:IJ:72:ALA:O	29:IJ:201:PEB:OA	1.63	1.14
17:yJ:111:CYS:HB2	30:yJ:303:PUB:CBA	1.77	1.14
6:UR:81:LYS:HE2	29:UR:201:PEB:O2C	1.46	1.14
3:B1:17:VAL:HG13	31:N1:1001:CYC:NB	1.61	1.14
1:X7:263:THR:HG22	5:D7:115:GLU:OE2	0.97	1.14
1:X7:321:TYR:CZ	5:D7:84:ARG:NH2	2.16	1.14
2:A9:34:LEU:HD22	7:Y9:87:GLU:OE2	0.98	1.14
6:UB:53:LYS:CG	14:MG:100:THR:HG21	1.76	1.14
7:GD:75:THR:HA	29:JD:201:PEB:CBD	1.76	1.14
6:JD:54:GLU:OE2	6:JD:137:ARG:NH1	1.79	1.14
18:ME:229:GLU:HG3	18:ME:242:LYS:CE	1.76	1.14
3:BI:227:GLU:HG3	20:vP:56:GLN:CG	1.76	1.14
7:LJ:26:ALA:O	28:4P:231:ILE:HD11	1.36	1.14
5:JK:18:PHE:N	15:bM:335:ILE:CD1	1.94	1.14
7:TL:25:GLN:CG	25:1P:521:THR:CG2	2.25	1.14
16:wL:176:TYR:HA	16:xL:39:LEU:HD12	1.21	1.14
16:wL:183:LYS:CE	16:xL:40:VAL:CG1	2.13	1.14
6:fM:135:ARG:HD3	6:fM:157:ASP:OD1	1.44	1.14
8:eR:87:MET:O	8:eR:91:GLU:CG	1.93	1.14
6:K3:56:GLY:HA3	6:K3:83:TYR:CE1	1.81	1.14
10:d4:129:GLU:HA	7:E4:108:ARG:HH22	1.13	1.14
7:G4:75:THR:OG1	29:J4:201:PEB:HBD2	1.47	1.14
3:B9:197:PHE:HE2	21:sP:140:LEU:CD1	1.60	1.14
6:U9:83:TYR:HE2	13:kH:261:MET:HG2	1.06	1.14
7:RB:61:CYS:CB	29:RB:203:PEB:CAD	2.24	1.14
18:MC:308:ILE:CD1	7:vJ:64:PRO:HD2	1.75	1.14
7:FM:85:ASP:OD1	29:FM:201:PEB:C1D	1.96	1.14
7:TM:85:ASP:OD1	29:TM:201:PEB:C1D	1.96	1.14
7:cM:85:ASP:OD1	29:cM:201:PEB:C1D	1.96	1.14
7:kM:85:ASP:CG	29:kM:201:PEB:HHC1	1.72	1.14
6:MR:137:ARG:HH22	29:MR:202:PEB:CGB	1.59	1.14
7:XR:84:ARG:O	7:XR:87:GLU:HG2	1.48	1.14
6:O2:142:ARG:HH11	6:lB:76:GLN:HG2	1.12	1.14
7:G4:58:GLY:O	29:G4:203:PEB:CAD	1.94	1.14
7:G5:149:ARG:NE	7:k9:150:LYS:HZ1	1.43	1.14
12:E5:120:TYR:CD2	7:Y9:156:GLY:HA2	1.83	1.14
6:AA:96:CYS:SG	6:AA:105:LEU:HG	1.88	1.14
10:dD:217:SER:OG	29:ID:201:PEB:HAC1	0.96	1.14
7:JG:108:ARG:CZ	14:MG:257:THR:HG23	1.78	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:26:ALA:CB	27:aP:91:VAL:HG12	1.77	1.14
7:kI:1:MET:HE3	7:kI:104:VAL:CG2	1.75	1.14
3:BK:207:ARG:HH12	3:BK:212:GLN:N	1.44	1.14
17:BM:75:LYS:CA	7:LM:115:GLU:OE1	1.94	1.14
29:FN:201:PEB:CGC	14:MN:174:ARG:HH12	1.60	1.14
6:IO:140:VAL:HG13	6:IO:146:ALA:HA	1.15	1.14
5:H1:152:ASP:CA	11:D8:219:TYR:CZ	2.29	1.14
10:d4:129:GLU:HA	7:E4:108:ARG:NH2	1.63	1.14
13:k6:192:VAL:CG2	4:I7:134:GLN:HE21	1.61	1.14
5:H7:39:ASP:OD1	29:H7:1002:PEB:HHC1	1.48	1.14
7:B8:104:VAL:HG21	18:ME:266:GLY:HA2	1.24	1.14
12:E8:183:TYR:CE2	6:bF:83:TYR:CB	2.31	1.14
18:ME:200:ARG:CG	18:ME:237:PHE:CD1	2.27	1.14
3:BF:204:ARG:NH2	21:uP:61:LEU:HD23	1.63	1.14
7:FG:50:CYS:O	29:FG:203:PEB:CAA	1.95	1.14
7:VK:159:THR:CB	14:MN:103:ARG:HG3	1.76	1.14
7:LL:26:ALA:O	28:bP:231:ILE:HD11	1.36	1.14
6:dM:135:ARG:HD3	6:dM:157:ASP:OD1	1.44	1.14
14:MN:102:LYS:O	14:MN:103:ARG:NH1	1.79	1.14
6:KO:56:GLY:HA3	6:KO:83:TYR:CE1	1.81	1.14
5:L1:35:ASN:ND2	29:L1:1002:PEB:O1C	1.79	1.13
7:C4:141:PHE:CZ	29:C4:203:PEB:HMA3	1.82	1.13
7:E4:133:ILE:HG13	29:E4:203:PEB:HBC1	1.24	1.13
12:E5:40:VAL:C	7:a9:26:ALA:HB1	1.71	1.13
4:K7:52:ILE:HD11	20:TP:68:PRO:CG	1.78	1.13
7:I8:1:MET:CG	28:4P:118:LEU:HD22	1.77	1.13
6:GA:96:CYS:SG	6:GA:105:LEU:HG	1.88	1.13
7:TB:85:ASP:OD1	29:TB:201:PEB:C1D	1.96	1.13
18:MC:241:ALA:CB	6:SF:133:TYR:OH	1.95	1.13
18:ME:57:MET:O	18:ME:59:GLU:OE2	1.64	1.13
18:ME:312:LEU:HD21	7:vL:69:PRO:HD3	1.22	1.13
18:ME:312:LEU:HD22	7:vL:69:PRO:CD	1.69	1.13
7:VJ:154:ALA:HB1	7:NO:70:GLY:C	1.73	1.13
17:yL:111:CYS:HB2	30:yL:303:PUB:CBA	1.76	1.13
6:EM:135:ARG:HD3	6:EM:157:ASP:OD1	1.44	1.13
6:GN:96:CYS:SG	6:GN:105:LEU:HG	1.88	1.13
29:eR:401:PEB:CAA	7:PR:82:CYS:HB2	1.76	1.13
6:M2:142:ARG:CZ	29:M2:202:PEB:C1B	2.26	1.13
7:T2:106:GLU:CG	7:T2:110:LEU:HD12	1.78	1.13
7:I5:79:MET:HE1	15:bB:229:LEU:O	1.46	1.13
7:C5:72:MEN:O	7:C5:78:ARG:HD3	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:188:ALA:CB	6:bI:64:ALA:CB	2.25	1.13
12:E5:188:ALA:CB	6:bI:64:ALA:HB2	1.78	1.13
3:B7:207:ARG:HH12	27:3P:61:ARG:NH1	1.46	1.13
4:K9:52:ILE:HD11	20:vP:68:PRO:CG	1.78	1.13
4:K9:57:GLN:OE1	5:JI:145:THR:CB	1.97	1.13
6:EA:96:CYS:SG	6:EA:105:LEU:HG	1.88	1.13
15:bB:375:ASP:OD2	7:FB:64:PRO:HD2	1.46	1.13
7:LC:120:LEU:CD1	18:MC:213:THR:CG2	2.27	1.13
6:OR:37:ARG:CZ	6:OR:100:GLY:HA2	1.78	1.13
8:e2:153:GLN:NE2	7:X2:108:ARG:HH22	1.44	1.13
7:T2:106:GLU:HG3	7:T2:110:LEU:HD12	1.31	1.13
7:B5:108:ARG:NH2	18:MC:268:VAL:CA	2.12	1.13
7:C8:72:MEN:O	7:C8:78:ARG:HD3	1.45	1.13
4:C9:68:GLN:HB3	4:GI:139:SER:HB3	1.30	1.13
5:L9:39:ASP:OD1	29:L9:1002:PEB:HHC1	1.49	1.13
5:N9:39:ASP:OD1	29:N9:1002:PEB:HHC1	1.49	1.13
29:W9:202:PEB:CMA	8:eR:249:TYR:CD1	2.30	1.13
6:GB:138:LEU:HD13	29:GB:202:PEB:CMD	1.68	1.13
18:ME:312:LEU:CD2	7:vL:68:SER:CB	2.26	1.13
7:BG:140:ALA:HB1	29:BG:203:PEB:HBB2	1.27	1.13
7:VJ:155:ALA:CB	7:NO:66:LEU:CD1	2.26	1.13
19:zJ:343:GLN:HG2	20:iP:60:GLN:O	1.45	1.13
6:EN:96:CYS:SG	6:EN:105:LEU:HG	1.88	1.13
7:TR:106:GLU:CG	7:TR:110:LEU:HD12	1.78	1.13
6:U2:138:LEU:HD21	29:U2:202:PEB:CAD	1.69	1.13
1:X7:323:ALA:O	1:X7:325:LYS:NZ	1.82	1.13
7:I8:6:SER:CB	7:I8:26:ALA:HB1	1.76	1.13
5:F9:39:ASP:OD1	29:F9:1002:PEB:HHC1	1.48	1.13
6:UB:53:LYS:CG	14:MG:100:THR:HG22	1.63	1.13
18:MC:258:THR:HB	18:MC:259:PRO:HD3	1.14	1.13
16:wJ:101:ALA:O	16:wJ:105:ARG:HG3	1.49	1.13
29:fL:201:PEB:CGC	16:wL:115:PHE:HE1	1.62	1.13
6:IM:54:GLU:OE1	29:IM:202:PEB:HMC3	1.32	1.13
7:DQ:141:PHE:CZ	29:DQ:203:PEB:HMA3	1.83	1.13
3:B1:207:ARG:HH12	3:B1:212:GLN:N	1.44	1.12
8:e2:287:ALA:HB1	7:a7:147:THR:HG22	1.29	1.13
6:O2:68:ASN:ND2	13:k6:234:ASP:O	1.81	1.13
6:C3:48:HIS:NE2	6:C3:49:GLU:CD	2.05	1.12
7:M4:51:MET:HE1	7:M4:137:GLN:HB2	1.19	1.13
7:K5:1:MET:HB3	7:K5:104:VAL:HG21	1.15	1.13
4:K7:57:GLN:OE1	5:JF:145:THR:CB	1.96	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L7:39:ASP:OD1	29:L7:1002:PEB:HHC1	1.49	1.13
7:Y7:156:GLY:HA2	12:E8:120:TYR:CD2	1.84	1.13
7:I8:2:LEU:HD23	28:4P:88:LEU:CD1	1.77	1.13
12:E8:188:ALA:CB	6:bF:64:ALA:HB2	1.77	1.13
6:U9:69:PRO:HG3	7:TR:123:PRO:CA	1.72	1.12
6:KA:131:ILE:HD13	6:KA:159:LEU:HD22	1.16	1.12
6:UB:135:ARG:HD3	6:UB:157:ASP:OD1	1.44	1.12
6:WB:135:ARG:HD3	6:WB:157:ASP:OD1	1.44	1.12
7:kB:85:ASP:CG	29:kB:201:PEB:HHC1	1.72	1.12
6:KC:44:LEU:HD23	29:KC:203:PEB:CBD	1.79	1.12
10:dD:283:ARG:HG3	7:TI:148:GLU:HB3	1.26	1.13
18:MC:242:LYS:HG3	29:SF:202:PEB:CGB	1.76	1.12
6:BD:1:MET:CE	6:BD:107:GLU:OE1	1.96	1.12
18:ME:303:PHE:CB	6:gL:83:TYR:CD2	2.31	1.13
7:L3:164:GLU:OE1	7:K5:79:MET:CE	1.96	1.12
6:B4:118:ARG:NH2	6:L4:114:ARG:O	1.80	1.12
13:k6:187:THR:CG2	5:H7:141:LEU:HD13	1.79	1.12
18:ME:136:LYS:CE	18:ME:212:TYR:OH	1.97	1.12
3:BF:204:ARG:HD3	31:rP:1001:CYC:O2D	1.49	1.12
3:BI:204:ARG:HH21	21:SP:61:LEU:HD23	0.97	1.13
6:MJ:68:ASN:CB	6:MJ:71:GLU:CD	2.22	1.13
6:oJ:68:ASN:CB	6:oJ:71:GLU:CD	2.22	1.12
1:XK:125:LEU:HG	1:XK:195:TYR:OH	1.47	1.13
29:tJ:201:PEB:CGC	16:xJ:216:LEU:HD13	1.79	1.12
4:EK:4:PRO:HG2	4:EK:30:ARG:HD3	1.32	1.12
7:TL:25:GLN:HG2	25:1P:521:THR:HG22	1.30	1.12
6:oL:68:ASN:CB	6:oL:71:GLU:CD	2.22	1.12
19:zL:363:ARG:CA	21:LP:62:TYR:CG	2.32	1.13
6:jM:147:GLN:HE22	29:mM:202:PEB:HMC3	0.97	1.13
6:AN:96:CYS:SG	6:AN:105:LEU:HG	1.88	1.12
6:EN:1:MET:CG	14:MN:196:ASN:HD21	1.62	1.12
21:MP:69:GLY:HA2	28:bP:41:THR:HG21	1.27	1.12
8:eR:108:HIS:NE2	7:PR:84:ARG:HD2	1.63	1.12
29:e2:401:PEB:CAA	7:P2:82:CYS:CB	2.11	1.12
6:M2:137:ARG:NH1	29:M2:202:PEB:O1B	1.81	1.12
7:a7:26:ALA:HB1	12:E8:40:VAL:CG1	1.73	1.12
7:mB:85:ASP:OD1	29:mB:201:PEB:C1D	1.96	1.12
18:MC:136:LYS:CE	18:MC:212:TYR:OH	1.97	1.12
18:ME:303:PHE:CD2	6:gL:83:TYR:CZ	2.36	1.12
7:HG:54:ASP:HB2	29:HG:203:PEB:CBA	1.80	1.12
6:aL:68:ASN:CB	6:aL:71:GLU:CD	2.22	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:xL:101:ALA:O	16:xL:105:ARG:HG3	1.49	1.12
6:KN:38:LEU:CG	7:LN:24:LEU:CD2	2.03	1.12
7:BQ:141:PHE:CD2	29:BQ:203:PEB:HMB2	1.84	1.12
7:g1:101:ASP:CA	14:MA:98:LEU:HD21	1.55	1.12
6:M2:142:ARG:NH1	29:M2:202:PEB:C4B	2.12	1.12
6:B4:1:MET:CE	6:B4:107:GLU:OE1	1.96	1.12
7:G4:76:ASN:ND2	6:J4:113:ALA:CB	1.97	1.12
4:I9:134:GLN:HE21	13:kH:192:VAL:CG2	1.61	1.12
6:IA:38:LEU:HG	7:JA:24:LEU:HD23	1.16	1.12
7:LC:7:ARG:NH1	18:MC:258:THR:CG2	1.85	1.12
18:MC:215:THR:O	18:MC:218:GLY:N	1.80	1.12
18:MC:312:LEU:CD2	7:vJ:68:SER:HA	1.80	1.12
6:BD:118:ARG:NH2	6:LD:114:ARG:O	1.80	1.12
7:ID:1:MET:HE1	7:ID:108:ARG:NH1	1.61	1.12
7:DE:123:PRO:HB3	6:QI:69:PRO:CG	1.80	1.12
29:DG:201:PEB:CBC	14:MG:276:GLU:OE1	1.98	1.12
3:BI:222:LEU:CD2	27:aP:63:ARG:HG3	1.79	1.12
5:FI:15:ARG:NH2	5:FI:17:GLU:OE2	1.83	1.12
5:JI:22:THR:HB	27:aP:92:PRO:HG2	1.31	1.12
16:xJ:101:ALA:O	16:xJ:105:ARG:HG3	1.49	1.12
6:ML:147:GLN:CD	29:PL:202:PEB:CMC	2.23	1.12
6:kL:68:ASN:CB	6:kL:71:GLU:CD	2.22	1.12
6:mL:68:ASN:CB	6:mL:71:GLU:CD	2.22	1.12
8:eR:154:TYR:OH	29:XR:201:PEB:HBC2	1.44	1.12
3:B1:13:GLN:HB2	3:B1:15:GLN:NE2	1.63	1.12
8:e2:153:GLN:NE2	7:X2:108:ARG:NH2	1.97	1.12
8:e2:279:ILE:HD11	7:a7:149:ARG:HD2	1.29	1.12
6:M2:81:LYS:HE3	29:M2:201:PEB:HAB1	1.13	1.12
7:G4:75:THR:CG2	29:J4:201:PEB:CBD	2.26	1.12
13:k6:261:MET:HG2	6:U7:83:TYR:HE2	1.06	1.12
13:k6:280:ARG:HG2	13:k6:283:LYS:HZ3	1.05	1.12
5:N7:39:ASP:OD1	29:N7:1002:PEB:HHC1	1.49	1.12
7:L8:107:ASP:CG	4:I9:61:ASN:HA	1.74	1.12
5:H9:141:LEU:HD13	13:kH:187:THR:CG2	1.79	1.12
6:UB:67:LYS:CD	14:MG:97:PHE:CZ	2.32	1.12
7:XB:85:ASP:OD1	29:XB:201:PEB:C1D	1.96	1.12
7:BE:51:MET:SD	7:BE:141:PHE:CE2	2.43	1.12
7:FG:141:PHE:HZ	29:FG:203:PEB:CMA	1.62	1.12
3:BI:204:ARG:HD3	31:PP:1001:CYC:O2D	1.50	1.12
5:JI:22:THR:CB	27:aP:92:PRO:HG2	1.79	1.12
6:QJ:74:GLU:H	6:QJ:78:LYS:CE	1.55	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mJ:68:ASN:CB	6:mJ:71:GLU:CD	2.22	1.12
6:uJ:68:ASN:CB	6:uJ:71:GLU:CD	2.22	1.12
7:VK:159:THR:OG1	14:MN:103:ARG:CG	1.95	1.12
21:FP:71:MEN:OD1	21:FP:122:PRO:HD3	1.46	1.12
7:FQ:50:CYS:SG	29:FQ:203:PEB:HBA3	1.89	1.12
6:QR:139:CYS:SG	29:QR:202:PEB:CAA	2.37	1.12
4:E1:114:GLY:O	4:E1:118:ILE:HG12	1.50	1.12
6:M2:142:ARG:NH1	29:M2:202:PEB:NB	1.96	1.12
6:Q2:39:GLU:OE1	6:Q2:144:MET:HB3	1.49	1.12
6:W2:49:GLU:O	6:W2:53:LYS:HG2	1.49	1.12
6:I3:140:VAL:HG11	6:I3:146:ALA:HA	1.21	1.12
3:B7:197:PHE:HE2	21:QP:140:LEU:CD1	1.62	1.12
5:J7:107:ASP:OD1	26:2P:55:PRO:CD	1.97	1.12
7:B8:104:VAL:HG23	18:ME:266:GLY:HA3	1.16	1.12
5:H9:39:ASP:OD1	29:H9:1002:PEB:HMD2	1.50	1.12
5:H9:150:ILE:CG2	7:ZM:159:THR:CG2	2.23	1.12
7:FB:85:ASP:OD1	29:FB:201:PEB:C1D	1.96	1.12
6:QB:54:GLU:OE2	29:QB:204:PEB:CBC	1.98	1.12
7:BC:51:MET:SD	7:BC:141:PHE:CE2	2.43	1.12
7:JC:51:MET:SD	7:JC:141:PHE:CE2	2.43	1.12
6:KE:44:LEU:HD23	29:KE:203:PEB:CBD	1.79	1.12
7:FG:56:VAL:O	7:FG:60:ILE:HG22	1.48	1.12
6:UR:37:ARG:HB2	6:UR:151:GLU:OE1	1.50	1.12
6:WR:49:GLU:O	6:WR:53:LYS:HG2	1.49	1.12
4:K1:143:SER:OG	29:cJ:202:PEB:HMA2	1.49	1.11
6:O2:37:ARG:CZ	6:O2:100:GLY:HA2	1.78	1.11
6:Q2:142:ARG:HD3	29:Q2:202:PEB:HBA3	1.12	1.11
7:I4:1:MET:HE1	7:I4:108:ARG:NH1	1.61	1.11
7:I5:18:TYR:CE1	21:LP:128:GLN:OE1	2.02	1.11
5:F7:39:ASP:OD1	29:F7:1002:PEB:HHC1	1.48	1.11
12:E8:162:ASN:ND2	29:kF:203:PEB:NB	1.97	1.11
5:H9:39:ASP:OD1	29:H9:1002:PEB:HHC1	1.48	1.11
5:J9:107:ASP:OD1	26:ZP:55:PRO:HD2	1.40	1.11
7:LC:51:MET:SD	7:LC:141:PHE:CE2	2.43	1.11
7:LE:120:LEU:HD12	18:ME:213:THR:HG21	1.16	1.11
7:FG:50:CYS:C	29:FG:203:PEB:HAA2	1.72	1.11
13:kH:236:GLN:HE21	6:OR:65:TYR:HB3	1.04	1.11
6:QJ:68:ASN:CB	6:QJ:71:GLU:CD	2.22	1.11
6:YL:68:ASN:CB	6:YL:71:GLU:CD	2.22	1.11
7:NM:170:ASP:CG	28:4P:184:THR:HG23	1.74	1.11
7:DN:113:LEU:HD21	14:MN:280:PHE:CZ	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SR:139:CYS:SG	6:SR:142:ARG:HG2	1.90	1.11
6:B4:15:ALA:HB1	6:B4:17:ARG:HD2	1.26	1.11
7:L5:116:THR:HG22	13:k6:284:LEU:HD23	1.17	1.11
5:D7:39:ASP:OD1	29:D7:1002:PEB:HHC1	1.48	1.11
6:W7:140:VAL:CG1	6:W7:146:ALA:HA	1.79	1.11
7:I8:6:SER:HB2	7:I8:26:ALA:HB1	1.24	1.11
7:HB:85:ASP:OD1	29:HB:201:PEB:C1D	1.96	1.11
6:jB:147:GLN:OE1	29:mB:202:PEB:HMC2	1.46	1.11
18:ME:304:TRP:CZ2	6:gL:87:ASP:CG	2.28	1.11
3:BF:228:MET:HA	3:BF:228:MET:HE2	1.25	1.11
4:KF:70:PRO:CD	9:OO:308:TYR:CE2	2.31	1.11
5:LF:68:GLN:HE22	27:3P:110:SER:HB3	1.09	1.11
8:eR:77:PHE:CZ	8:eR:84:LYS:NZ	2.14	1.11
5:L1:36:GLN:HE21	29:L1:1002:PEB:CMB	1.64	1.11
5:N7:39:ASP:OD1	29:N7:1002:PEB:HMD2	1.50	1.11
7:a7:26:ALA:HB1	12:E8:40:VAL:C	1.74	1.11
3:B9:225:VAL:HA	3:B9:228:MET:HE2	1.30	1.11
7:DC:51:MET:SD	7:DC:141:PHE:CE2	2.42	1.11
7:DC:123:PRO:HB3	6:QF:69:PRO:CG	1.80	1.11
7:LE:51:MET:SD	7:LE:141:PHE:CE2	2.43	1.11
7:BG:141:PHE:CD2	29:BG:203:PEB:HMB2	1.85	1.11
6:KG:2:LYS:HZ3	30:MG:402:PUB:HBB2	1.11	1.11
5:JI:26:ALA:HB1	27:aP:91:VAL:HG12	1.13	1.11
6:aJ:68:ASN:CB	6:aJ:71:GLU:CD	2.22	1.11
5:JK:35:ASN:OD1	29:JK:1002:PEB:ND	1.84	1.11
7:TL:25:GLN:HG3	25:1P:521:THR:CB	1.80	1.11
6:WL:72:ALA:HB1	29:WL:202:PEB:C1A	1.81	1.11
7:gM:149:ARG:NH2	6:hM:157:ASP:OD2	1.83	1.11
6:UR:97:LEU:HD23	6:UR:155:TYR:CD2	1.86	1.11
6:UR:138:LEU:CA	29:UR:202:PEB:HMD1	1.80	1.11
8:e2:291:ILE:CD1	7:T2:170:ASP:HA	1.78	1.11
10:d4:261:THR:HG22	6:WF:133:TYR:OH	1.48	1.11
6:B4:9:VAL:HG13	7:C4:95:TYR:CE1	1.86	1.11
13:k6:17:TRP:CH2	13:k6:134:ILE:HD11	1.86	1.11
7:B8:91:ARG:HH21	18:ME:293:MET:CB	1.48	1.11
6:W9:140:VAL:CG1	6:W9:146:ALA:HA	1.79	1.11
7:JE:51:MET:SD	7:JE:141:PHE:CE2	2.43	1.11
13:kH:17:TRP:CH2	13:kH:134:ILE:HD11	1.86	1.11
6:YJ:68:ASN:CB	6:YJ:71:GLU:CD	2.22	1.11
3:BK:205:ARG:NE	20:IP:52:LYS:CE	2.11	1.11
5:NK:35:ASN:OD1	29:NK:1002:PEB:ND	1.83	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:101:ALA:O	16:wL:105:ARG:HG3	1.49	1.11
7:RM:61:CYS:HB2	29:RM:203:PEB:HBD2	1.28	1.11
6:IO:140:VAL:HG11	6:IO:146:ALA:HA	1.21	1.11
8:eR:85:PRO:HB3	7:NR:107:ASP:O	1.47	1.11
5:L1:40:ILE:CG1	29:L1:1002:PEB:HBA1	1.81	1.11
5:N1:35:ASN:OD1	29:N1:1002:PEB:ND	1.83	1.11
6:W2:138:LEU:HD12	6:W2:143:ASP:OD2	0.93	1.11
12:E5:183:TYR:CD2	6:bI:83:TYR:CG	2.38	1.11
13:k6:61:ARG:HH12	7:V7:150:LYS:HB2	1.03	1.11
5:D7:39:ASP:OD1	29:D7:1002:PEB:HMD2	1.50	1.11
4:K7:52:ILE:CD1	20:TP:68:PRO:CG	2.27	1.11
7:I8:91:ARG:NH2	28:4P:118:LEU:O	1.72	1.11
3:B9:227:GLU:HG2	20:PP:52:LYS:HE2	1.22	1.11
7:NB:25:GLN:HG3	21:MP:147:LYS:CB	1.81	1.11
7:cB:85:ASP:OD1	29:cB:201:PEB:C1D	1.96	1.11
7:FJ:143:THR:OG1	25:YP:514:ILE:CG2	1.98	1.11
6:eJ:68:ASN:CB	6:eJ:71:GLU:CD	2.22	1.11
17:yJ:111:CYS:CB	30:yJ:303:PUB:HBA1	1.79	1.11
4:EK:114:GLY:O	4:EK:118:ILE:HG12	1.50	1.11
6:ML:68:ASN:CB	6:ML:71:GLU:CD	2.22	1.11
29:FN:201:PEB:CBC	14:MN:174:ARG:HH12	1.52	1.11
7:LQ:56:VAL:O	7:LQ:60:ILE:HG22	1.48	1.11
8:eR:75:MET:CE	29:NR:201:PEB:C3D	2.28	1.11
6:QR:139:CYS:HB3	29:QR:202:PEB:HBA2	1.24	1.11
1:X1:125:LEU:HG	1:X1:195:TYR:OH	1.47	1.10
7:T1:150:LYS:H	11:D8:260:THR:HG21	1.12	1.10
6:f1:28:GLN:CG	6:h1:33:ARG:HH11	1.52	1.10
7:g1:101:ASP:HA	14:MA:98:LEU:CD2	1.80	1.10
8:e2:108:HIS:CD2	7:P2:84:ARG:CZ	2.31	1.10
6:M2:37:ARG:HE	6:M2:151:GLU:CD	1.57	1.10
7:X2:84:ARG:O	7:X2:87:GLU:HG2	1.48	1.10
7:I5:158:CYS:SG	29:I5:202:PEB:C3A	2.38	1.10
1:X9:321:TYR:CZ	5:D9:84:ARG:NH2	2.16	1.10
5:F9:39:ASP:OD1	29:F9:1002:PEB:HMD2	1.50	1.10
4:K9:52:ILE:HD11	20:vP:68:PRO:HG3	1.18	1.10
6:U9:69:PRO:HG2	7:TR:123:PRO:CA	1.78	1.10
6:AA:5:ILE:HD11	6:AA:27:ILE:HD13	1.12	1.10
7:DE:51:MET:SD	7:DE:141:PHE:CE2	2.42	1.10
18:ME:268:VAL:HG11	7:PI:148:GLU:O	1.50	1.10
7:LG:109:CYS:O	14:MG:236:TYR:CE1	2.04	1.10
6:EJ:68:ASN:CB	6:EJ:71:GLU:CD	2.23	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:kJ:68:ASN:CB	6:kJ:71:GLU:CD	2.22	1.10
19:zJ:363:ARG:HD3	21:nP:62:TYR:HB3	1.24	1.10
7:HM:85:ASP:OD1	29:HM:201:PEB:C1D	1.96	1.10
6:UM:67:LYS:NZ	14:MQ:97:PHE:CE1	2.18	1.10
12:E5:40:VAL:O	7:a9:26:ALA:CB	2.00	1.10
7:I8:18:TYR:CE1	21:nP:128:GLN:CD	2.29	1.10
7:K8:1:MET:HB3	7:K8:104:VAL:HG21	1.15	1.10
1:X9:323:ALA:O	1:X9:325:LYS:NZ	1.82	1.10
5:J9:39:ASP:OD1	29:J9:1002:PEB:HHC1	1.48	1.10
6:QB:54:GLU:CD	29:QB:204:PEB:HMC3	1.76	1.10
7:RB:85:ASP:OD1	29:RB:201:PEB:C1D	1.96	1.10
7:gB:149:ARG:NH2	6:hB:157:ASP:OD2	1.83	1.10
7:LC:120:LEU:HD12	18:MC:213:THR:HG21	1.29	1.10
6:AG:38:LEU:HD22	6:AG:98:VAL:HA	1.22	1.10
5:LI:68:GLN:HE22	27:aP:110:SER:HB3	1.08	1.10
19:zJ:363:ARG:HD3	21:nP:62:TYR:CD1	1.68	1.10
6:QL:68:ASN:CB	6:QL:71:GLU:CD	2.22	1.10
6:UM:53:LYS:C	14:MQ:100:THR:HG21	1.61	1.10
7:XM:85:ASP:OD1	29:XM:201:PEB:C1D	1.96	1.10
6:AO:39:GLU:O	6:AO:43:LYS:HG2	1.51	1.10
7:DQ:141:PHE:HZ	29:DQ:203:PEB:CMA	1.65	1.10
6:MR:37:ARG:HE	6:MR:151:GLU:CD	1.57	1.10
6:MR:54:GLU:OE2	29:MR:202:PEB:HAC1	1.51	1.10
6:WR:97:LEU:HD23	6:WR:155:TYR:CD2	1.86	1.10
5:J1:18:PHE:H	15:bB:335:ILE:HD13	0.97	1.10
8:e2:126:TYR:CE2	7:V2:116:THR:HG23	1.86	1.10
5:L7:39:ASP:OD1	29:L7:1002:PEB:HMD2	1.50	1.10
5:J9:39:ASP:OD1	29:J9:1002:PEB:HMD2	1.50	1.10
18:MC:144:ARG:HD3	18:MC:144:ARG:H	1.17	1.10
6:BD:9:VAL:HG13	7:CD:95:TYR:CE1	1.86	1.10
4:CI:33:ARG:NH1	29:NI:1002:PEB:CBD	1.93	1.10
6:WJ:72:ALA:HB1	29:WJ:202:PEB:C1A	1.81	1.10
29:IJ:201:PEB:O1C	16:xJ:251:TYR:CE2	2.04	1.10
6:EL:68:ASN:CB	6:EL:71:GLU:CD	2.23	1.10
6:cL:72:ALA:HB1	29:cL:201:PEB:HMA3	1.12	1.10
19:zL:217:ALA:CB	19:zL:218:PRO:HD3	1.80	1.10
6:GM:135:ARG:NH1	7:JM:149:ARG:NH1	1.99	1.10
7:RM:85:ASP:OD1	29:RM:201:PEB:C1D	1.96	1.10
6:KO:54:GLU:OE2	29:KO:202:PEB:CMC	2.00	1.10
21:IP:71:MEN:O	21:IP:77:ARG:HD3	1.48	1.10
7:DQ:141:PHE:CZ	29:DQ:203:PEB:CMA	2.34	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FQ:54:ASP:HB2	29:FQ:203:PEB:CBA	1.82	1.10
6:W2:9:VAL:HG21	7:X2:1:MET:HE1	1.19	1.10
6:K3:54:GLU:OE2	29:K3:202:PEB:CMC	2.00	1.10
7:I4:1:MET:HE3	7:I4:108:ARG:HH11	1.07	1.10
5:J7:39:ASP:OD1	29:J7:1002:PEB:HMD2	1.50	1.10
3:B9:174:GLU:OE2	26:ZP:80:SER:O	1.69	1.10
3:B9:197:PHE:HE2	21:sP:140:LEU:HD11	1.10	1.10
6:IA:37:ARG:CG	6:IA:97:LEU:O	2.00	1.10
6:CB:54:GLU:HG3	29:CB:202:PEB:HAC1	1.33	1.10
6:GB:135:ARG:NH1	7:JB:149:ARG:NH1	1.99	1.10
6:dB:54:GLU:HG3	29:dB:202:PEB:HAC1	1.34	1.10
6:jB:54:GLU:HG2	29:jB:202:PEB:HAC1	1.16	1.10
10:dD:283:ARG:HG3	7:TI:148:GLU:OE1	1.51	1.10
6:FD:43:LYS:CD	6:FD:143:ASP:O	1.99	1.10
3:BF:219:ALA:HB2	27:3P:60:ALA:O	1.51	1.10
7:HG:62:GLU:OE1	29:HG:203:PEB:HBD2	1.48	1.10
3:BI:222:LEU:HD21	27:aP:63:ARG:HG3	1.18	1.10
29:IJ:201:PEB:O1C	16:xJ:251:TYR:CZ	2.05	1.10
19:zJ:217:ALA:CB	19:zJ:218:PRO:HD3	1.80	1.10
7:HL:25:GLN:HG2	7:HL:26:ALA:H	1.09	1.10
6:SL:33:ARG:HD2	6:SL:151:GLU:OE2	1.33	1.10
7:TL:25:GLN:CD	25:1P:521:THR:HG21	1.77	1.10
6:eL:68:ASN:CB	6:eL:71:GLU:CD	2.22	1.10
6:uL:68:ASN:CB	6:uL:71:GLU:CD	2.22	1.10
16:wL:102:ALA:HA	16:wL:105:ARG:CG	1.81	1.10
6:QM:54:GLU:CD	29:QM:204:PEB:HMC3	1.76	1.10
6:CO:48:HIS:NE2	6:CO:49:GLU:OE2	1.84	1.10
21:dP:71:MEN:O	21:dP:77:ARG:HD3	1.52	1.10
8:eR:78:LEU:HD12	7:NR:116:THR:OG1	1.52	1.10
29:eR:401:PEB:HHA1	7:PR:82:CYS:HA	1.32	1.10
3:B1:204:ARG:HB3	5:L1:125:SER:OG	1.51	1.10
5:J1:17:GLU:CB	15:bB:340:GLU:CG	2.24	1.10
5:J1:17:GLU:OE1	15:bB:333:ARG:HD3	1.44	1.10
6:O2:97:LEU:HD23	6:O2:155:TYR:CD2	1.86	1.10
6:U2:97:LEU:HD23	6:U2:155:TYR:CD2	1.86	1.10
6:U2:138:LEU:HD21	29:U2:202:PEB:HAD1	1.28	1.10
9:O3:271:TRP:HH2	4:KI:49:GLN:OE1	1.25	1.10
7:G4:58:GLY:CA	29:G4:203:PEB:CAD	2.30	1.10
12:E5:162:ASN:HD22	29:kI:203:PEB:C3B	1.63	1.10
12:E5:162:ASN:ND2	29:kI:203:PEB:NB	1.97	1.10
12:E5:209:ARG:HG2	6:II:70:GLY:HA2	1.17	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E8:208:ALA:CB	6:IF:74:GLU:OE1	1.99	1.10
5:N9:39:ASP:OD1	29:N9:1002:PEB:HMD2	1.50	1.10
6:IB:54:GLU:HG3	29:IB:202:PEB:HAC1	1.33	1.10
7:DC:84:ARG:NH1	18:MC:44:PRO:HD3	1.64	1.10
7:LC:120:LEU:CD2	18:MC:219:SER:HB2	1.81	1.10
18:MC:242:LYS:CB	29:SF:202:PEB:CGB	2.28	1.10
7:HG:58:GLY:CA	29:HG:203:PEB:CMD	2.27	1.10
5:JI:65:GLN:HB2	20:PP:68:PRO:HD3	1.29	1.10
6:cJ:138:LEU:HD12	29:cJ:202:PEB:HMD3	1.33	1.10
6:gJ:68:ASN:CB	6:gJ:71:GLU:CD	2.23	1.10
16:xJ:102:ALA:HA	16:xJ:105:ARG:CG	1.82	1.10
4:KK:143:SER:OG	29:cL:202:PEB:HMA2	1.49	1.10
6:gL:68:ASN:CB	6:gL:71:GLU:CD	2.23	1.10
6:QM:54:GLU:CD	29:QM:204:PEB:CMC	2.25	1.10
21:MP:69:GLY:HA3	28:bP:41:THR:CG2	1.82	1.10
7:FQ:50:CYS:C	29:FQ:203:PEB:CAA	2.24	1.10
7:LQ:111:ASN:O	14:MQ:236:TYR:CE1	2.05	1.10
6:MR:142:ARG:HH22	29:MR:202:PEB:C3B	1.64	1.10
6:Q2:97:LEU:HD23	6:Q2:155:TYR:CD2	1.86	1.09
10:d4:331:GLN:CB	10:dD:335:LEU:HD11	1.81	1.09
6:F4:43:LYS:CD	6:F4:143:ASP:O	2.00	1.09
7:I8:18:TYR:CE1	21:nP:128:GLN:OE1	2.05	1.09
12:E8:183:TYR:CG	6:bF:83:TYR:CD2	2.40	1.09
5:L9:39:ASP:OD1	29:L9:1002:PEB:HMD2	1.50	1.09
15:bB:341:ALA:C	15:bB:349:LYS:HD3	1.75	1.09
15:bB:373:GLU:OE1	21:MP:124:GLY:C	1.94	1.09
6:QB:54:GLU:CD	29:QB:204:PEB:CMC	2.25	1.09
18:MC:300:VAL:HG13	6:gJ:49:GLU:HG3	1.34	1.09
7:ID:102:ALA:CB	7:ID:105:LEU:CD1	2.30	1.09
18:ME:301:ASN:O	6:gL:49:GLU:O	1.70	1.09
6:AG:38:LEU:HD22	6:AG:98:VAL:CA	1.74	1.09
7:BG:140:ALA:CB	29:BG:203:PEB:HAB2	1.81	1.09
13:kH:234:ASP:O	6:OR:68:ASN:OD1	1.68	1.09
7:IJ:108:ARG:HB3	16:xJ:183:LYS:NZ	1.66	1.09
5:FK:35:ASN:OD1	29:FK:1002:PEB:ND	1.83	1.09
5:LK:40:ILE:CG1	29:LK:1002:PEB:HBA1	1.81	1.09
7:iK:97:LEU:HD13	7:iK:165:VAL:HG22	1.34	1.09
15:bM:341:ALA:HB2	20:mP:68:PRO:CG	1.78	1.09
6:QM:54:GLU:OE2	29:QM:204:PEB:CBC	1.98	1.09
21:DP:71:MEN:O	21:DP:77:ARG:HD3	1.49	1.09
6:IQ:18:PHE:HE2	14:MQ:265:LYS:HE2	1.07	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SR:81:LYS:HD3	29:SR:201:PEB:HAB2	1.28	1.09
6:UR:138:LEU:N	29:UR:202:PEB:HMD1	1.67	1.09
7:T2:123:PRO:CA	6:U7:69:PRO:HG3	1.82	1.09
7:I4:97:LEU:HD11	7:I4:165:VAL:CG2	1.82	1.09
7:I5:7:ARG:HE	28:bP:138:LEU:CD2	1.65	1.09
2:A7:34:LEU:HD22	7:Y7:87:GLU:CD	1.78	1.09
5:D9:39:ASP:OD1	29:D9:1002:PEB:HMD2	1.50	1.09
6:KA:131:ILE:CD1	6:KA:159:LEU:HD22	1.82	1.09
6:UB:53:LYS:HD2	14:MG:100:THR:HG22	1.13	1.09
18:MC:61:VAL:HB	18:MC:98:LEU:HB3	1.19	1.09
18:ME:268:VAL:HG11	7:PI:148:GLU:CA	1.63	1.09
4:EF:120:ARG:HD3	4:IF:116:GLU:OE2	0.93	1.09
4:GF:104:THR:HG22	4:GF:108:ASP:OD1	1.50	1.09
13:kH:107:TYR:O	4:EK:68:GLN:O	1.71	1.09
4:GI:104:THR:HG22	4:GI:108:ASP:OD1	1.50	1.09
6:fl:9:VAL:CG2	7:gl:1:MET:CE	2.30	1.09
7:HJ:25:GLN:HG2	7:HJ:26:ALA:H	1.09	1.09
17:yJ:111:CYS:HB2	30:yJ:303:PUB:HBA1	1.10	1.09
19:zJ:217:ALA:CB	19:zJ:218:PRO:CD	2.30	1.09
7:VK:159:THR:CB	14:MN:103:ARG:HE	1.65	1.09
6:AL:147:GLN:NE2	29:AL:203:PEB:HMC2	1.66	1.09
7:HL:66:LEU:HD11	7:HL:126:SER:OG	1.52	1.09
16:xL:102:ALA:HA	16:xL:105:ARG:CG	1.81	1.09
19:zL:217:ALA:CB	19:zL:218:PRO:CD	2.30	1.09
7:DQ:136:ALA:HB3	29:DQ:203:PEB:CGC	1.82	1.09
7:TR:106:GLU:HG3	7:TR:110:LEU:HD12	1.31	1.09
5:J1:35:ASN:OD1	29:J1:1002:PEB:ND	1.84	1.09
5:L1:41:VAL:HG11	5:L1:98:ILE:HD11	1.18	1.09
6:h1:135:ARG:HD3	6:h1:157:ASP:OD1	1.53	1.09
6:U2:50:ALA:O	6:U2:54:GLU:CG	2.01	1.09
6:W2:97:LEU:HD23	6:W2:155:TYR:CD2	1.86	1.09
6:H4:137:ARG:NH1	29:H4:202:PEB:CHB	2.16	1.09
5:H7:150:ILE:CG2	7:ZB:159:THR:CG2	2.23	1.09
5:N9:72:MEN:OD1	31:N9:1001:CYC:OC	1.70	1.09
6:IC:152:PHE:CZ	6:IC:156:LEU:HD21	1.87	1.09
18:MC:312:LEU:HD23	7:vJ:68:SER:CB	1.83	1.09
10:dD:285:VAL:HB	29:TI:202:PEB:O2B	1.51	1.09
7:ID:97:LEU:HD11	7:ID:165:VAL:CG2	1.82	1.09
18:ME:240:ARG:HD2	6:SI:133:TYR:HE1	1.03	1.09
7:FG:47:ASN:CB	29:FG:203:PEB:HMA3	1.82	1.09
7:HG:62:GLU:OE1	29:HG:203:PEB:CBD	2.00	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:120:ARG:HD3	4:II:116:GLU:OE2	0.93	1.09
7:IJ:108:ARG:HB3	16:xJ:183:LYS:HZ3	0.95	1.09
19:zJ:332:LEU:CD2	20:pP:63:PRO:C	2.25	1.09
5:LK:36:GLN:HE21	29:LK:1002:PEB:CMB	1.64	1.09
7:ZL:108:ARG:NH1	16:xL:41:ASN:HB3	1.52	1.09
6:KN:38:LEU:HG	7:LN:24:LEU:HD21	1.25	1.09
7:FQ:58:GLY:CA	29:FQ:203:PEB:HMD2	1.81	1.09
6:QR:97:LEU:HD23	6:QR:155:TYR:CD2	1.86	1.09
5:F1:35:ASN:OD1	29:F1:1002:PEB:ND	1.83	1.09
7:g1:97:LEU:HD13	7:g1:165:VAL:HG22	1.35	1.09
6:M2:138:LEU:HD13	29:M2:202:PEB:HMD3	1.24	1.09
6:S2:81:LYS:HD3	29:S2:201:PEB:HAB2	1.20	1.09
6:I3:139:CYS:HB3	29:I3:202:PEB:CAA	1.82	1.09
6:I3:140:VAL:HG13	6:I3:146:ALA:HA	1.15	1.09
29:G4:202:PEB:HBD1	6:H4:33:ARG:NH2	1.68	1.09
3:B7:57:GLU:HA	3:B7:60:ILE:HG13	1.35	1.09
5:J7:39:ASP:OD1	29:J7:1002:PEB:HHC1	1.48	1.09
7:LB:70:GLY:C	7:RB:125:ASN:HD21	1.60	1.09
7:BG:41:VAL:HG21	7:BG:98:LEU:HD21	1.12	1.09
16:wJ:102:ALA:HA	16:wJ:105:ARG:CG	1.81	1.09
19:zJ:363:ARG:HB2	21:nP:62:TYR:CD1	1.83	1.09
7:eK:97:LEU:HD13	7:eK:165:VAL:HG22	1.35	1.09
6:lK:135:ARG:HD3	6:lK:157:ASP:OD1	1.53	1.09
16:wL:183:LYS:CD	16:xL:40:VAL:CG1	2.28	1.09
19:zL:217:ALA:HB1	19:zL:218:PRO:HD3	1.27	1.09
19:zL:332:LEU:HD21	20:NP:63:PRO:C	1.77	1.09
7:NM:22:SER:HA	21:oP:147:LYS:HA	1.26	1.09
6:KN:131:ILE:CD1	6:KN:159:LEU:HD22	1.82	1.09
6:KO:53:LYS:NZ	6:KO:83:TYR:OH	1.86	1.09
6:AQ:38:LEU:HD22	6:AQ:98:VAL:HB	1.34	1.09
7:FQ:50:CYS:O	29:FQ:203:PEB:CAA	2.01	1.09
6:QR:39:GLU:OE1	6:QR:144:MET:HB3	1.49	1.09
5:J1:12:ALA:O	5:J1:17:GLU:OE2	1.71	1.09
7:R1:97:LEU:HD13	7:R1:165:VAL:HG22	1.35	1.09
6:b1:135:ARG:HD3	6:b1:157:ASP:OD1	1.53	1.09
6:M2:43:LYS:NZ	29:M2:202:PEB:HBD1	1.67	1.09
7:I4:58:GLY:HA2	29:I4:203:PEB:CAD	1.83	1.09
11:D5:260:THR:HG21	7:TK:150:LYS:H	1.12	1.09
4:G7:122:PHE:O	4:G7:123:ASP:OD1	1.70	1.09
7:I8:158:CYS:SG	29:I8:202:PEB:C3A	2.38	1.09
3:B9:204:ARG:NH1	31:vP:1001:CYC:O2D	1.85	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UB:43:LYS:HD2	14:MG:115:TYR:CE2	1.65	1.09
6:BD:29:GLY:C	6:BD:32:GLN:HE22	1.61	1.09
18:ME:304:TRP:HE1	6:gL:87:ASP:HB3	1.06	1.09
7:tJ:77:ARG:NH1	16:xJ:212:ARG:NH2	1.99	1.09
5:LK:41:VAL:HG21	5:LK:98:ILE:HG13	1.28	1.09
7:mM:85:ASP:OD1	29:mM:201:PEB:C1D	1.96	1.09
6:OR:97:LEU:HD23	6:OR:155:TYR:CD2	1.86	1.09
6:QR:139:CYS:SG	29:QR:202:PEB:HAA2	1.93	1.09
7:e1:97:LEU:HD13	7:e1:165:VAL:HG22	1.35	1.08
8:e2:153:GLN:NE2	7:X2:108:ARG:CZ	2.16	1.08
6:U2:137:ARG:HG3	29:U2:202:PEB:CHC	1.82	1.08
6:H4:114:ARG:HD2	6:J4:118:ARG:HH11	1.09	1.08
7:B5:108:ARG:NH2	18:MC:268:VAL:CB	2.13	1.08
7:B5:108:ARG:HG2	18:MC:266:GLY:HA3	1.30	1.08
7:I5:30:PHE:CE2	28:bP:132:PRO:HD3	1.87	1.08
12:E5:40:VAL:HG12	7:a9:26:ALA:HB1	1.26	1.08
3:B7:197:PHE:HE2	21:QP:140:LEU:HD11	1.09	1.08
5:H7:39:ASP:OD1	29:H7:1002:PEB:HMD2	1.50	1.08
7:L8:116:THR:HG22	13:kH:284:LEU:HD23	1.18	1.08
2:A9:34:LEU:HD22	7:Y9:87:GLU:CD	1.78	1.08
4:G9:122:PHE:O	4:G9:123:ASP:OD1	1.70	1.08
6:KC:152:PHE:CZ	6:KC:156:LEU:HD21	1.88	1.08
18:MC:312:LEU:HD23	7:vJ:68:SER:CA	1.83	1.08
6:LD:18:PHE:CE1	7:MD:91:ARG:HG3	1.88	1.08
7:DE:123:PRO:HB3	6:QI:69:PRO:HG2	1.09	1.08
5:FF:15:ARG:CZ	5:FF:17:GLU:OE2	2.01	1.08
7:VJ:154:ALA:HB1	7:NO:70:GLY:O	1.53	1.08
19:zJ:363:ARG:CZ	21:nP:62:TYR:CD1	2.36	1.08
5:FK:47:ASN:HD21	5:FK:141:LEU:HD21	1.17	1.08
7:LL:26:ALA:O	28:bP:231:ILE:HD12	1.53	1.08
6:SL:33:ARG:CZ	6:SL:147:GLN:NE2	2.09	1.08
6:IO:139:CYS:HB3	29:IO:202:PEB:CAA	1.82	1.08
4:E1:4:PRO:HG2	4:E1:30:ARG:HD3	1.32	1.08
7:a1:97:LEU:HD13	7:a1:165:VAL:HG22	1.35	1.08
7:c1:97:LEU:HD13	7:c1:165:VAL:HG22	1.35	1.08
6:A3:39:GLU:O	6:A3:43:LYS:HG2	1.51	1.08
6:L4:33:ARG:NH2	6:L4:151:GLU:OE1	1.87	1.08
7:B8:108:ARG:CG	18:ME:266:GLY:HA3	1.83	1.08
7:L8:107:ASP:OD1	4:I9:61:ASN:CA	2.01	1.08
7:NB:25:GLN:CB	21:MP:147:LYS:CG	2.27	1.08
18:MC:308:ILE:CD1	7:vJ:64:PRO:HD3	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:dD:285:VAL:HG11	29:TI:202:PEB:CGB	1.83	1.08
18:ME:240:ARG:CD	6:SI:133:TYR:CE1	2.32	1.08
6:fF:9:VAL:CG2	7:gF:1:MET:CE	2.30	1.08
5:JK:11:GLN:CG	15:bM:333:ARG:NH2	2.16	1.08
6:IM:54:GLU:HG3	29:IM:202:PEB:HAC1	1.33	1.08
7:HQ:136:ALA:C	29:HQ:203:PEB:O1C	1.94	1.08
8:eR:108:HIS:CE1	7:PR:84:ARG:HD2	1.88	1.08
6:WR:142:ARG:HD3	29:WR:202:PEB:HHA1	1.25	1.08
7:T1:97:LEU:HD13	7:T1:165:VAL:HG22	1.35	1.08
12:E5:188:ALA:HB1	6:bI:64:ALA:HB2	1.35	1.08
7:a7:52:VAL:HG21	7:a7:87:GLU:HB3	1.34	1.08
6:UB:43:LYS:HD3	14:MG:115:TYR:OH	1.39	1.08
18:MC:236:ASP:HB2	29:SF:202:PEB:OA	1.34	1.08
6:IE:152:PHE:CZ	6:IE:156:LEU:HD21	1.87	1.08
18:ME:144:ARG:CG	18:ME:148:GLU:OE2	2.00	1.08
7:HJ:66:LEU:HD11	7:HJ:126:SER:OG	1.52	1.08
6:bK:135:ARG:HD3	6:bK:157:ASP:OD1	1.53	1.08
16:wL:86:CYS:HB2	30:wL:305:PUB:HAA2	1.34	1.08
19:zL:343:GLN:CD	20:GP:61:ARG:HA	1.79	1.08
28:bP:40:ARG:HH11	28:bP:40:ARG:HB3	1.18	1.08
8:eR:80:GLU:CD	7:NR:115:GLU:CG	2.26	1.08
6:QR:137:ARG:HG3	29:QR:202:PEB:HHC1	1.29	1.08
6:UR:137:ARG:HG3	29:UR:202:PEB:HHC1	1.15	1.08
7:T2:123:PRO:CB	6:U7:69:PRO:HG3	1.82	1.08
6:U2:137:ARG:CG	29:U2:202:PEB:HHC1	1.82	1.08
10:d4:335:LEU:HD12	10:dD:331:GLN:HG3	1.08	1.08
4:C7:68:GLN:HB3	4:GF:139:SER:HB3	1.30	1.08
6:Q9:69:PRO:CG	13:kH:102:TYR:CZ	2.36	1.08
7:JA:87:GLU:OE2	14:MA:264:VAL:HG23	1.53	1.08
7:NB:170:ASP:CG	28:bP:184:THR:HG23	1.77	1.08
6:IC:14:ALA:CB	18:MC:51:PRO:HD3	1.83	1.08
6:KE:152:PHE:CZ	6:KE:156:LEU:HD21	1.88	1.08
4:CI:116:GLU:OE2	4:KI:120:ARG:HD3	0.90	1.08
5:FI:39:ASP:OD1	29:FI:1002:PEB:HMD3	1.53	1.08
6:WK:48:HIS:O	6:WK:52:VAL:HG23	1.53	1.08
7:YK:97:LEU:HD13	7:YK:165:VAL:HG22	1.34	1.08
7:gK:97:LEU:HD13	7:gK:165:VAL:HG22	1.35	1.08
16:wL:175:GLU:OE2	16:xL:47:ARG:HG2	1.49	1.08
6:GM:138:LEU:HD13	29:GM:202:PEB:HMD3	1.09	1.08
7:NM:25:GLN:HG3	21:oP:147:LYS:HB3	1.20	1.08
6:IQ:18:PHE:CE2	14:MQ:265:LYS:HE2	1.88	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C3:48:HIS:NE2	6:C3:49:GLU:OE2	1.84	1.08
29:L5:201:PEB:CBC	13:k6:195:ARG:HH12	1.64	1.08
13:k6:102:TYR:CZ	6:Q7:69:PRO:CG	2.36	1.08
5:D9:39:ASP:OD1	29:D9:1002:PEB:HHC1	1.48	1.08
7:NB:25:GLN:CG	21:MP:147:LYS:CB	2.32	1.08
7:DE:123:PRO:CB	6:QI:69:PRO:HG2	1.84	1.08
18:ME:217:SER:HA	18:ME:223:ARG:HG2	1.31	1.08
18:ME:312:LEU:HD23	7:vL:68:SER:HB2	1.30	1.08
7:FG:137:GLN:OE1	29:FG:203:PEB:NB	1.85	1.08
6:IG:2:LYS:HZ1	14:MG:254:VAL:HG22	1.02	1.08
16:wL:176:TYR:CD1	16:xL:39:LEU:CD1	2.23	1.08
16:wL:183:LYS:HG2	16:xL:40:VAL:HG11	1.13	1.08
7:LM:70:GLY:C	7:RM:125:ASN:HD21	1.60	1.08
7:C4:141:PHE:HZ	29:C4:203:PEB:HMA3	0.96	1.07
6:F4:25:GLU:OE1	6:H4:33:ARG:HD3	1.54	1.07
6:J4:133:TYR:CZ	6:J4:137:ARG:NE	2.22	1.07
13:k6:130:GLU:OE1	29:YB:203:PEB:HAB1	1.54	1.07
7:I8:8:VAL:HG21	19:zJ:298:ALA:HB1	1.32	1.07
6:lB:54:GLU:OE1	29:lB:202:PEB:HMC3	1.32	1.07
10:dD:280:SER:CB	6:WI:70:GLY:HA3	1.83	1.07
7:GD:54:ASP:OD2	29:GD:203:PEB:HHA1	1.51	1.07
18:ME:232:MET:HE1	29:SI:202:PEB:HAB2	1.28	1.07
18:ME:312:LEU:HD21	7:vL:68:SER:HA	1.33	1.07
5:JF:26:ALA:HB1	27:3P:91:VAL:HG12	1.14	1.07
5:JK:11:GLN:HG2	15:bM:333:ARG:NH2	1.68	1.07
7:LL:26:ALA:C	28:bP:231:ILE:HD11	1.79	1.07
29:FN:201:PEB:HAC2	14:MN:174:ARG:NH1	1.66	1.07
7:DQ:141:PHE:HZ	29:DQ:203:PEB:HMA1	1.18	1.07
3:B1:13:GLN:HB2	3:B1:15:GLN:HE22	0.92	1.07
5:D1:35:ASN:O	5:D1:39:ASP:OD1	1.73	1.07
6:Q2:137:ARG:NH2	29:Q2:202:PEB:O1B	1.87	1.07
6:W2:142:ARG:HG2	29:W2:202:PEB:HBA1	1.09	1.07
10:d4:327:SER:OG	10:dD:338:GLU:HG2	1.42	1.07
5:F7:39:ASP:OD1	29:F7:1002:PEB:HMD2	1.50	1.07
12:E8:162:ASN:ND2	29:kF:203:PEB:C2B	2.18	1.07
7:LC:7:ARG:HH11	18:MC:258:THR:HG22	1.15	1.07
18:ME:304:TRP:HZ2	6:gL:87:ASP:OD1	1.34	1.07
6:KG:2:LYS:HZ3	30:MG:402:PUB:CBB	1.66	1.07
6:AJ:147:GLN:NE2	29:AJ:203:PEB:HMC2	1.66	1.07
7:TJ:25:GLN:HG3	25:YP:521:THR:HB	1.15	1.07
29:nJ:201:PEB:HBC2	16:xJ:103:LEU:HB3	1.26	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AN:5:ILE:HD11	6:AN:27:ILE:HD13	1.12	1.07
21:fP:71:MEN:O	21:fP:77:ARG:HD3	1.52	1.07
7:BQ:50:CYS:SG	29:BQ:203:PEB:C3A	2.41	1.07
5:L1:41:VAL:HG21	5:L1:98:ILE:HG13	1.28	1.07
6:M2:142:ARG:CZ	29:M2:202:PEB:NB	2.18	1.07
7:E4:56:VAL:O	7:E4:60:ILE:HG12	1.53	1.07
7:I5:7:ARG:NE	28:bP:138:LEU:CD2	2.18	1.07
7:K5:1:MET:CE	7:K5:95:TYR:OH	2.03	1.07
3:B7:172:LYS:HB2	26:2P:86:PRO:HG3	1.35	1.07
7:B8:91:ARG:HH22	18:ME:293:MET:HA	1.07	1.07
7:I8:1:MET:HG3	28:4P:118:LEU:CD2	1.82	1.07
7:K8:79:MET:CE	7:LO:164:GLU:OE1	2.02	1.07
18:MC:217:SER:HA	18:MC:223:ARG:HG2	1.31	1.07
5:FF:39:ASP:OD1	29:FF:1002:PEB:HMD3	1.53	1.07
5:JF:65:GLN:CG	20:rP:68:PRO:CD	2.33	1.07
6:AG:2:LYS:NZ	30:MG:403:PUB:HAB1	1.65	1.07
5:FK:39:ASP:OD2	29:FK:1002:PEB:HHA1	1.53	1.07
6:jM:147:GLN:NE2	29:mM:202:PEB:HMC3	1.67	1.07
6:MR:81:LYS:HE3	29:MR:201:PEB:HAB1	1.13	1.07
6:h1:5:ILE:HB	7:i1:3:ASP:OD2	1.54	1.07
7:N3:70:GLY:O	7:VL:154:ALA:HB1	1.52	1.07
7:B5:108:ARG:CG	18:MC:266:GLY:HA3	1.85	1.07
3:B7:224:MET:HE3	20:rP:52:LYS:HG3	1.30	1.07
7:K8:1:MET:CE	7:K8:95:TYR:OH	2.03	1.07
12:E8:183:TYR:CD2	6:bF:83:TYR:CG	2.41	1.07
6:U9:69:PRO:HG3	7:TR:123:PRO:HB3	1.30	1.07
7:a9:52:VAL:HG21	7:a9:87:GLU:HB3	1.34	1.07
15:bB:355:LEU:CD2	6:MB:53:LYS:HZ3	1.60	1.07
7:RB:61:CYS:HB2	29:RB:203:PEB:HBD2	1.28	1.07
18:ME:242:LYS:CD	29:SI:202:PEB:HBB1	1.84	1.07
18:ME:258:THR:HB	18:ME:259:PRO:HD3	1.14	1.07
6:IG:18:PHE:HE2	14:MG:265:LYS:HE2	0.91	1.07
7:JG:108:ARG:NE	14:MG:257:THR:CG2	2.17	1.07
6:kJ:33:ARG:HH22	7:nJ:38:LEU:HD13	1.18	1.07
2:AK:103:CYS:CB	30:AK:305:PUB:HAA2	1.85	1.07
6:kL:33:ARG:HH22	7:nL:38:LEU:HD13	1.18	1.07
6:IN:37:ARG:CG	6:IN:97:LEU:O	2.00	1.07
28:bP:40:ARG:HH12	28:bP:41:THR:CG2	1.66	1.07
7:LQ:58:GLY:HA3	29:LQ:202:PEB:HMC2	1.31	1.07
6:W1:48:HIS:O	6:W1:52:VAL:HG23	1.53	1.07
6:U2:139:CYS:SG	29:U2:202:PEB:HBA1	0.90	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:39:ASP:OD1	29:D3:202:PEB:HMD2	1.53	1.07
12:E5:183:TYR:CG	6:bI:83:TYR:CD2	2.42	1.07
7:B8:108:ARG:HD2	18:ME:266:GLY:O	1.52	1.07
4:E9:122:PHE:CE2	31:E9:1001:CYC:HAA1	1.90	1.07
5:F9:15:ARG:HH12	7:a9:62:GLU:HB3	1.20	1.07
6:GB:138:LEU:HD13	29:GB:202:PEB:HMD3	1.08	1.07
18:MC:200:ARG:NH1	18:MC:237:PHE:CD2	2.00	1.07
10:dD:270:ARG:HD3	7:MD:78:ARG:NH2	1.68	1.07
5:JI:65:GLN:CG	20:PP:68:PRO:CG	2.05	1.07
6:GJ:68:ASN:HB3	6:GJ:69:PRO:CD	1.85	1.07
6:WJ:73:GLY:HA2	6:WJ:78:LYS:HB3	1.37	1.07
7:VK:97:LEU:HD13	7:VK:165:VAL:HG22	1.35	1.07
7:TL:25:GLN:HG3	25:1P:521:THR:HB	1.10	1.07
28:bP:40:ARG:HH12	28:bP:41:THR:HG22	1.17	1.07
8:eR:153:GLN:HE21	7:XR:108:ARG:NH1	1.35	1.07
8:eR:271:GLU:OE2	7:TR:72:MEN:CE2	2.02	1.07
6:OR:47:ASN:ND2	29:OR:202:PEB:OD	1.88	1.07
6:WR:142:ARG:CG	29:WR:202:PEB:HBA3	1.84	1.07
5:D1:40:ILE:CG1	29:D1:1002:PEB:HBA1	1.85	1.06
6:W2:142:ARG:HD3	29:W2:202:PEB:CBA	1.75	1.06
7:G4:75:THR:CA	29:J4:201:PEB:CBD	2.32	1.06
13:k6:61:ARG:HH12	7:V7:150:LYS:CB	1.66	1.06
13:k6:192:VAL:HG21	4:I7:134:GLN:HE21	0.93	1.06
5:N7:72:MEN:OD1	31:N7:1001:CYC:OC	1.70	1.06
12:E8:162:ASN:HA	29:kF:203:PEB:CGB	1.85	1.06
12:E8:188:ALA:HB1	6:bF:64:ALA:HB2	1.31	1.06
3:B9:224:MET:HE3	20:PP:52:LYS:HG3	1.33	1.06
7:a9:62:GLU:OE2	7:a9:129:ARG:HG2	1.51	1.06
6:FD:33:ARG:NH2	29:ID:202:PEB:CBD	2.18	1.06
7:FG:50:CYS:O	29:FG:203:PEB:HAA2	1.52	1.06
6:fI:9:VAL:HG23	7:gI:1:MET:HE1	1.07	1.06
3:BK:204:ARG:HB3	5:LK:125:SER:OG	1.51	1.06
7:TK:97:LEU:HD13	7:TK:165:VAL:HG22	1.35	1.06
6:hK:5:ILE:HB	7:iK:3:ASP:OD2	1.54	1.06
7:NL:114:LYS:HE2	7:NL:176:ILE:C	1.80	1.06
6:cL:138:LEU:HD12	29:cL:202:PEB:HMD3	1.33	1.06
15:bM:335:ILE:CG2	15:bM:340:GLU:HB2	1.85	1.06
8:eR:154:TYR:OH	29:XR:201:PEB:CGC	2.01	1.06
6:UR:50:ALA:O	6:UR:54:GLU:CG	2.01	1.06
3:B1:17:VAL:HG11	31:N1:1001:CYC:HB	1.19	1.06
7:g1:101:ASP:HA	14:MA:98:LEU:HD21	1.12	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:65:TYR:HB3	13:k6:236:GLN:NE2	1.50	1.06
7:T2:123:PRO:HB3	6:U7:69:PRO:HG3	1.34	1.06
6:B4:118:ARG:HH12	6:L4:114:ARG:HB3	1.13	1.06
7:I5:158:CYS:CB	29:I5:202:PEB:HAA2	1.85	1.06
4:E7:122:PHE:CE2	31:E7:1001:CYC:HAA1	1.90	1.06
6:UB:142:ARG:HD2	14:MG:112:LEU:C	1.80	1.06
6:JD:133:TYR:CZ	6:JD:137:ARG:NE	2.22	1.06
18:ME:236:ASP:HB3	29:SI:202:PEB:OA	1.51	1.06
5:JF:22:THR:HB	27:3P:92:PRO:HG2	1.27	1.06
5:JI:65:GLN:HG2	20:PP:68:PRO:HG3	1.13	1.06
7:nJ:1:MET:HG2	16:xJ:194:VAL:HG21	1.36	1.06
6:EM:54:GLU:OE2	29:EM:202:PEB:CAC	2.03	1.06
7:NM:22:SER:O	21:oP:147:LYS:HE2	1.52	1.06
21:MP:71:MEN:O	21:MP:77:ARG:HD3	1.52	1.06
6:K3:53:LYS:NZ	6:K3:83:TYR:OH	1.86	1.06
7:E4:59:MET:HE1	7:E4:130:ALA:N	1.69	1.06
7:G4:58:GLY:HA2	29:G4:203:PEB:CAD	1.85	1.06
11:D5:260:THR:HG22	7:TK:150:LYS:HB2	1.13	1.06
12:E5:162:ASN:ND2	29:kI:203:PEB:C3B	2.17	1.06
13:k6:118:ARG:HB2	6:S7:137:ARG:HH12	1.17	1.06
13:k6:186:ALA:O	5:H7:54:ASN:ND2	1.88	1.06
4:K7:57:GLN:OE1	5:JF:145:THR:OG1	1.73	1.06
15:bB:341:ALA:HB2	20:KP:68:PRO:HG2	1.27	1.06
7:DC:123:PRO:CB	6:QF:69:PRO:HG2	1.84	1.06
7:LC:120:LEU:CD1	18:MC:213:THR:HG23	1.82	1.06
6:HD:137:ARG:NH1	29:HD:202:PEB:CHB	2.16	1.06
18:ME:232:MET:HB2	18:ME:236:ASP:HB2	1.36	1.06
7:eF:68:SER:OG	7:eF:69:PRO:HD2	1.56	1.06
16:wJ:86:CYS:HB2	30:wJ:305:PUB:HAA2	1.34	1.06
5:JK:17:GLU:HB3	15:bM:340:GLU:CD	1.76	1.06
6:GL:68:ASN:HB3	6:GL:69:PRO:CD	1.85	1.06
6:GL:72:ALA:HB1	29:GL:201:PEB:HMA3	1.10	1.06
19:zL:332:LEU:N	20:NP:67:SER:OG	1.87	1.06
21:LP:71:MEN:O	21:LP:71:MEN:HE22	1.56	1.06
4:K1:143:SER:HB2	29:cJ:202:PEB:OA	1.53	1.06
6:W7:140:VAL:HG11	6:W7:146:ALA:HA	1.09	1.06
12:E8:188:ALA:HB1	6:bF:64:ALA:CB	1.85	1.06
3:B9:170:ARG:HA	26:ZP:88:THR:HG21	1.36	1.06
3:B9:172:LYS:HD2	5:N9:111:ASN:HD21	1.15	1.06
7:GD:75:THR:HA	29:JD:201:PEB:CAD	1.85	1.06
29:BG:201:PEB:HBD2	14:MG:126:SER:HB2	1.07	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:205:ARG:CB	20:PP:76:GLU:OE2	2.03	1.06
6:AJ:139:CYS:SG	29:AJ:202:PEB:CAA	1.16	1.06
6:KJ:47:ASN:ND2	29:KJ:202:PEB:OD	1.87	1.06
7:NJ:114:LYS:HE2	7:NJ:176:ILE:O	0.88	1.06
7:TJ:25:GLN:CG	25:YP:521:THR:CG2	2.33	1.06
6:cJ:72:ALA:HB1	29:cJ:201:PEB:HMA3	1.12	1.06
16:xJ:42:SER:O	16:xJ:43:LYS:HB2	1.53	1.06
4:EK:142:LEU:HD13	4:EK:146:VAL:CG1	1.86	1.06
6:AL:139:CYS:SG	29:AL:202:PEB:CAA	1.16	1.06
6:YL:33:ARG:NH2	29:bL:202:PEB:OD	1.86	1.06
16:wL:102:ALA:HA	16:wL:105:ARG:HD2	1.07	1.06
19:zL:332:LEU:HD21	20:NP:64:ASP:N	1.70	1.06
6:CM:54:GLU:HG3	29:CM:202:PEB:HAC1	1.33	1.06
7:NM:25:GLN:CB	21:oP:147:LYS:CG	2.09	1.06
8:eR:154:TYR:OH	29:XR:201:PEB:O1C	1.69	1.06
5:F1:39:ASP:OD2	29:F1:1002:PEB:HHA1	1.53	1.06
6:M2:142:ARG:NH2	29:M2:202:PEB:NB	2.03	1.06
7:G4:75:THR:CB	29:J4:201:PEB:CBD	2.34	1.06
7:I5:77:ARG:NH1	29:I5:201:PEB:O2B	1.87	1.06
13:k6:118:ARG:HB2	6:S7:137:ARG:NH1	1.68	1.06
7:a7:26:ALA:HB3	12:E8:40:VAL:CG1	1.79	1.06
7:I8:30:PHE:CE2	28:4P:132:PRO:HD3	1.91	1.06
6:BD:29:GLY:O	6:BD:32:GLN:NE2	1.89	1.06
18:ME:258:THR:CB	18:ME:259:PRO:CD	2.33	1.06
5:JF:65:GLN:CG	20:rP:68:PRO:CG	2.11	1.06
5:JF:65:GLN:HB2	20:rP:68:PRO:HD3	1.36	1.06
29:BG:201:PEB:HBD1	14:MG:126:SER:OG	1.55	1.06
13:kH:130:GLU:OE1	29:YM:203:PEB:HMB2	1.56	1.06
7:VJ:155:ALA:HB3	7:NO:66:LEU:HD12	1.31	1.06
7:aK:97:LEU:HD13	7:aK:165:VAL:HG22	1.35	1.06
6:hK:135:ARG:HD3	6:hK:157:ASP:OD1	1.53	1.06
6:cL:72:ALA:O	29:cL:201:PEB:OA	1.73	1.06
7:NM:25:GLN:HG2	21:oP:147:LYS:HB2	1.33	1.06
7:NO:91:ARG:HH21	9:OO:400:VAL:CG2	1.66	1.06
7:BQ:140:ALA:CB	29:BQ:203:PEB:HAB2	1.84	1.06
8:eR:122:SER:O	29:VR:201:PEB:HBC2	1.54	1.06
7:P1:97:LEU:HD13	7:P1:165:VAL:HG22	1.35	1.05
7:T1:150:LYS:HB2	11:D8:260:THR:HG22	1.08	1.05
6:U2:137:ARG:HH22	29:U2:202:PEB:CGB	1.69	1.05
6:U2:139:CYS:SG	29:U2:202:PEB:HBA2	1.01	1.05
7:I8:1:MET:HG2	28:4P:118:LEU:CD2	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:77:ARG:NH1	29:I8:201:PEB:O2B	1.87	1.05
29:L8:203:PEB:OD	13:kH:237:ILE:HG21	1.55	1.05
3:B9:57:GLU:HA	3:B9:60:ILE:HG13	1.35	1.05
7:NB:25:GLN:HA	7:NB:25:GLN:HE21	1.20	1.05
7:PB:61:CYS:CB	29:PB:202:PEB:HAD1	1.85	1.05
6:BD:118:ARG:HH12	6:LD:114:ARG:HB3	1.13	1.05
18:ME:232:MET:HB2	18:ME:236:ASP:CB	1.85	1.05
4:CF:120:ARG:HD3	4:KF:116:GLU:OE2	0.90	1.05
7:LG:58:GLY:CA	29:LG:203:PEB:HMD2	1.86	1.05
3:BI:224:MET:HE3	5:JI:152:ASP:HA	1.10	1.05
7:HJ:8:VAL:HG11	7:HJ:23:ASP:OD2	1.55	1.05
4:KK:143:SER:HB2	29:cL:202:PEB:OA	1.53	1.05
6:IL:54:GLU:OE2	6:IL:137:ARG:NH1	1.89	1.05
6:KL:47:ASN:ND2	29:KL:202:PEB:OD	1.87	1.05
7:LL:29:SER:OG	28:bP:231:ILE:HD12	1.54	1.05
7:DN:113:LEU:HD21	14:MN:280:PHE:CE2	1.91	1.05
7:BQ:41:VAL:HG21	7:BQ:98:LEU:HD21	1.12	1.05
6:SR:37:ARG:HB3	6:SR:151:GLU:OE1	1.56	1.05
6:WR:65:TYR:CE1	6:WR:66:LEU:HD11	1.90	1.05
7:m1:97:LEU:HD13	7:m1:165:VAL:HG22	1.35	1.05
6:M2:142:ARG:HH12	29:M2:202:PEB:C3B	1.68	1.05
6:O2:137:ARG:NH2	29:O2:202:PEB:O1B	1.88	1.05
7:D3:39:ASP:OD1	29:D3:202:PEB:HHC1	0.89	1.05
1:X7:263:THR:CG2	5:D7:115:GLU:HG2	1.86	1.05
7:I8:158:CYS:CB	29:I8:202:PEB:HAA2	1.85	1.05
15:bB:341:ALA:HB3	15:bB:349:LYS:HG2	1.35	1.05
6:UB:67:LYS:CD	14:MG:97:PHE:HZ	1.65	1.05
18:MC:240:ARG:HD2	6:SF:133:TYR:HE1	1.20	1.05
7:FG:58:GLY:O	7:FG:62:GLU:OE1	1.74	1.05
13:kH:280:ARG:HG2	13:kH:283:LYS:NZ	1.70	1.05
7:NJ:114:LYS:HE2	7:NJ:176:ILE:C	1.80	1.05
6:cJ:72:ALA:O	29:cJ:201:PEB:OA	1.73	1.05
4:EK:40:ALA:HB2	4:EK:146:VAL:HG13	1.36	1.05
17:BM:182:GLU:HG3	29:BM:301:PEB:HMD1	1.36	1.05
6:WM:33:ARG:HH12	6:WM:147:GLN:NE2	1.55	1.05
7:DO:39:ASP:OD1	29:DO:202:PEB:HHC1	0.89	1.05
6:AQ:2:LYS:HA	6:AQ:2:LYS:HE2	1.35	1.05
2:A1:103:CYS:CB	30:A1:305:PUB:HAA2	1.85	1.05
4:E1:142:LEU:HD13	4:E1:146:VAL:CG1	1.86	1.05
5:F1:47:ASN:ND2	5:F1:141:LEU:HD21	1.72	1.05
8:e2:278:LEU:HD21	6:W7:62:LYS:HE3	1.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:58:GLY:CA	29:C4:203:PEB:CAD	2.34	1.05
3:B7:121:ASN:HD21	26:2P:52:GLY:HA2	0.97	1.05
7:B8:108:ARG:HG3	18:ME:266:GLY:HA3	1.33	1.05
7:I8:15:LYS:O	7:I8:19:VAL:HG11	1.56	1.05
7:I8:72:MEN:C	7:I8:78:ARG:HD3	1.87	1.05
29:L8:201:PEB:CBC	13:kH:195:ARG:HH12	1.69	1.05
5:F9:17:GLU:CG	8:eR:301:PHE:HE2	1.69	1.05
6:U9:141:PRO:HB3	7:XM:25:GLN:NE2	1.51	1.05
7:DC:84:ARG:HH12	18:MC:44:PRO:CD	1.69	1.05
6:EC:33:ARG:NH2	29:HC:202:PEB:OD	1.89	1.05
6:HD:34:SER:HB2	6:HD:37:ARG:HH21	1.19	1.05
7:cF:147:THR:HB	7:cF:148:GLU:OE1	1.56	1.05
13:kH:236:GLN:NE2	6:OR:65:TYR:HB3	1.58	1.05
7:eI:68:SER:OG	7:eI:69:PRO:HD2	1.56	1.05
7:FJ:145:THR:OG1	25:YP:514:ILE:CG2	2.05	1.05
6:GJ:72:ALA:HB1	29:GJ:201:PEB:HMA3	1.10	1.05
5:DK:35:ASN:O	5:DK:39:ASP:OD1	1.73	1.05
5:JK:39:ASP:CG	29:JK:1002:PEB:HMD1	1.82	1.05
6:AL:54:GLU:HG2	6:AL:133:TYR:OH	1.56	1.05
7:NL:114:LYS:HE2	7:NL:176:ILE:O	0.88	1.05
7:PM:61:CYS:CB	29:PM:202:PEB:HAD1	1.85	1.05
7:VR:46:SER:HB2	6:WR:157:ASP:OD2	1.57	1.05
4:E1:40:ALA:HB2	4:E1:146:VAL:HG13	1.36	1.05
6:l1:135:ARG:HD3	6:l1:157:ASP:OD1	1.53	1.05
7:G4:75:THR:CG2	29:J4:201:PEB:HBD2	1.82	1.05
7:I5:15:LYS:O	7:I5:19:VAL:HG11	1.56	1.05
7:a7:26:ALA:CB	12:E8:40:VAL:O	2.05	1.05
6:l7:137:ARG:NH1	29:l7:202:PEB:NB	2.03	1.05
29:FA:201:PEB:HBC2	14:MA:174:ARG:NH1	1.57	1.05
18:MC:236:ASP:O	29:SF:202:PEB:HMB1	1.55	1.05
18:ME:242:LYS:CB	29:SI:202:PEB:CGB	2.35	1.05
6:EG:1:MET:HB2	14:MG:196:ASN:HD21	1.18	1.05
6:SJ:67:LYS:HZ2	26:2P:121:VAL:HG13	1.21	1.05
6:UJ:70:GLY:HA2	6:UJ:74:GLU:OE2	1.54	1.05
19:zJ:212:PHE:HA	19:zJ:216:TYR:OH	1.56	1.05
6:SL:67:LYS:HZ2	26:ZP:121:VAL:HG13	1.20	1.05
6:UL:70:GLY:HA2	6:UL:74:GLU:OE2	1.54	1.05
21:kP:71:MEN:O	21:kP:71:MEN:HE22	1.56	1.05
5:J1:18:PHE:N	15:bB:335:ILE:HD13	1.70	1.05
7:i1:97:LEU:HD13	7:i1:165:VAL:HG22	1.34	1.05
7:D3:39:ASP:OD1	29:D3:202:PEB:CMD	2.04	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:280:ARG:HG2	13:k6:283:LYS:NZ	1.70	1.05
5:L7:18:PHE:HE1	20:TP:68:PRO:CD	1.70	1.05
3:B9:227:GLU:HG2	20:PP:52:LYS:CE	1.87	1.05
5:H9:54:ASN:ND2	13:kH:186:ALA:O	1.88	1.05
6:BD:15:ALA:CB	6:BD:17:ARG:HD2	1.86	1.05
6:IE:1:MET:N	18:ME:63:ASP:OD1	1.87	1.05
6:fF:9:VAL:HG23	7:gF:1:MET:HE1	1.07	1.05
6:AJ:54:GLU:HG2	6:AJ:133:TYR:OH	1.56	1.05
19:zJ:366:ARG:HD2	21:nP:62:TYR:HD2	1.17	1.05
5:LK:41:VAL:HG21	5:LK:98:ILE:CG1	1.87	1.05
7:FN:115:GLU:OE1	14:MN:111:ARG:CB	2.05	1.05
7:BQ:140:ALA:HB1	29:BQ:203:PEB:HBB2	1.38	1.05
8:eR:75:MET:HE1	29:NR:201:PEB:C3D	1.85	1.05
8:eR:75:MET:CE	29:NR:201:PEB:CBD	2.34	1.05
6:M2:140:VAL:CG1	6:M2:146:ALA:HA	1.86	1.04
6:S2:37:ARG:HB3	6:S2:151:GLU:OE1	1.56	1.04
29:C4:202:PEB:OD	6:D4:33:ARG:NH1	1.89	1.04
7:K8:112:GLY:HA3	27:3P:269:LYS:HE2	1.35	1.04
1:X9:263:THR:CG2	5:D9:115:GLU:HG2	1.86	1.04
4:I9:134:GLN:HE21	13:kH:192:VAL:HG21	0.93	1.04
7:kB:85:ASP:OD2	29:kB:201:PEB:HHC1	1.56	1.04
7:DC:123:PRO:HB3	6:QF:69:PRO:HG2	1.09	1.04
7:HG:137:GLN:HE22	29:HG:203:PEB:CHA	1.69	1.04
7:HJ:72:MEN:HE21	7:HJ:122:VAL:HG22	1.36	1.04
3:BK:205:ARG:HH21	20:IP:52:LYS:CG	1.68	1.04
5:JK:145:THR:HG21	5:JK:150:ILE:HD12	1.39	1.04
7:RK:97:LEU:HD13	7:RK:165:VAL:HG22	1.35	1.04
7:mK:97:LEU:HD13	7:mK:165:VAL:HG22	1.35	1.04
4:E1:112:VAL:HG12	4:E1:113:ALA:H	1.23	1.04
7:V1:97:LEU:HD13	7:V1:165:VAL:HG22	1.35	1.04
7:g1:101:ASP:OD1	14:MA:98:LEU:HD11	1.55	1.04
7:P2:114:LYS:HZ1	6:W7:53:LYS:CB	1.70	1.04
7:T2:123:PRO:CA	6:U7:69:PRO:HG2	1.87	1.04
6:W2:138:LEU:HD11	6:W2:143:ASP:CB	1.86	1.04
6:I3:139:CYS:SG	29:I3:202:PEB:HAA2	1.94	1.04
7:I5:158:CYS:SG	29:I5:202:PEB:HAA1	1.06	1.04
7:I8:2:LEU:CD2	28:4P:88:LEU:HD11	1.86	1.04
6:W9:140:VAL:HG11	6:W9:146:ALA:HA	1.09	1.04
7:HA:20:GLY:O	7:HA:24:LEU:HD13	1.57	1.04
18:ME:258:THR:CB	18:ME:259:PRO:HD3	1.86	1.04
6:EG:6:THR:HB	14:MG:194:ILE:HD11	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CI:120:ARG:HD3	4:KI:116:GLU:OE2	0.88	1.04
7:TJ:25:GLN:HG2	25:YP:521:THR:HG22	1.38	1.04
5:FK:47:ASN:ND2	5:FK:141:LEU:HD21	1.72	1.04
16:wL:183:LYS:CG	16:xL:40:VAL:HG13	1.85	1.04
16:xL:42:SER:O	16:xL:43:LYS:HB2	1.53	1.04
21:jP:71:MEN:O	21:jP:71:MEN:HE22	1.56	1.04
6:AQ:38:LEU:HD22	6:AQ:98:VAL:CA	1.74	1.04
6:OR:142:ARG:HH22	29:OR:202:PEB:C1B	1.69	1.04
3:B1:17:VAL:HG13	31:N1:1001:CYC:OB	1.56	1.04
5:F1:47:ASN:HD21	5:F1:141:LEU:HD21	1.17	1.04
7:Y1:97:LEU:HD13	7:Y1:165:VAL:HG22	1.34	1.04
7:P2:114:LYS:HZ2	6:W7:53:LYS:CG	1.58	1.04
6:S2:142:ARG:HH22	29:S2:202:PEB:C1B	1.69	1.04
6:U2:139:CYS:CB	29:U2:202:PEB:HBA3	1.75	1.04
7:I5:3:ASP:OD2	28:bP:87:LYS:HE3	1.57	1.04
1:X7:263:THR:C	5:D7:115:GLU:CD	2.26	1.04
7:I8:74:TYR:HE1	15:bM:238:ARG:NE	1.54	1.04
7:K8:74:TYR:CD1	7:LO:171:ARG:NH2	1.83	1.04
7:K8:112:GLY:CA	27:3P:269:LYS:HE2	1.87	1.04
12:E8:183:TYR:CE2	6:bF:83:TYR:HB2	1.91	1.04
3:B9:121:ASN:HD21	26:ZP:52:GLY:HA2	0.91	1.04
7:V9:150:LYS:CB	13:kH:61:ARG:HH12	1.70	1.04
18:MC:268:VAL:CG1	7:PF:148:GLU:O	1.98	1.04
10:dD:280:SER:HB2	6:WI:70:GLY:HA3	1.33	1.04
6:FD:81:LYS:HD3	6:FD:84:ARG:HD3	1.07	1.04
18:ME:232:MET:CG	18:ME:236:ASP:HB2	1.87	1.04
6:SF:9:VAL:HG23	7:TF:1:MET:HE3	1.34	1.04
6:AG:38:LEU:HD22	6:AG:98:VAL:HB	1.34	1.04
7:LJ:26:ALA:C	28:4P:231:ILE:HD11	1.81	1.04
16:xJ:255:GLN:OE1	29:xJ:302:PEB:HMD2	1.57	1.04
1:XK:125:LEU:CG	1:XK:195:TYR:OH	2.06	1.04
5:DK:40:ILE:CG1	29:DK:1002:PEB:HBA1	1.85	1.04
7:FL:35:ASN:ND2	29:FL:202:PEB:O1C	1.88	1.04
29:GL:202:PEB:OA	20:gP:113:LYS:HD3	1.58	1.04
7:HL:8:VAL:HG11	7:HL:23:ASP:OD2	1.55	1.04
16:xL:255:GLN:OE1	29:xL:302:PEB:HMD2	1.57	1.04
6:OR:115:GLU:N	6:OR:118:ARG:HH21	1.55	1.04
1:X1:125:LEU:CG	1:X1:195:TYR:OH	2.06	1.04
3:B1:225:VAL:O	3:B1:228:MET:HG2	1.55	1.04
5:H1:40:ILE:HG13	29:H1:1002:PEB:HBA1	1.37	1.04
5:J1:39:ASP:CG	29:J1:1002:PEB:HMD1	1.82	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V2:61:CYS:CB	29:V2:203:PEB:HAD1	1.87	1.04
7:I5:72:MEN:C	7:I5:78:ARG:HD3	1.87	1.04
7:a7:167:SER:OG	12:E8:37:VAL:HG23	1.57	1.04
7:I8:15:LYS:NZ	21:nP:161:SER:O	1.89	1.04
3:B9:197:PHE:CE2	21:sP:140:LEU:HD11	1.92	1.04
7:V9:150:LYS:CG	13:kH:61:ARG:HH11	1.56	1.04
6:UB:142:ARG:CG	14:MG:112:LEU:O	2.04	1.04
6:FD:81:LYS:C	6:FD:84:ARG:HD2	1.82	1.04
18:ME:242:LYS:HD3	29:SI:202:PEB:HBB1	1.08	1.04
5:LI:68:GLN:NE2	27:aP:110:SER:HB3	1.72	1.04
6:SI:9:VAL:HG23	7:TI:1:MET:HE3	1.34	1.04
19:zJ:366:ARG:HD2	21:nP:62:TYR:CD2	1.93	1.04
4:EK:142:LEU:HD13	4:EK:146:VAL:HG11	1.38	1.04
4:MK:19:LEU:CD1	5:NK:98:ILE:HD13	1.65	1.04
19:zL:363:ARG:CD	21:LP:62:TYR:CB	2.35	1.04
6:UM:43:LYS:CD	14:MQ:115:TYR:HE2	1.54	1.04
6:UM:43:LYS:NZ	14:MQ:115:TYR:CG	2.10	1.04
7:kM:85:ASP:OD2	29:kM:201:PEB:HHC1	1.56	1.04
6:UR:138:LEU:CB	29:UR:202:PEB:CMD	2.36	1.04
6:O2:65:TYR:HB3	13:k6:236:GLN:HE21	1.00	1.04
6:B4:15:ALA:CB	6:B4:17:ARG:HD2	1.86	1.04
13:k6:220:GLU:O	4:E7:79:ILE:HG12	1.54	1.04
5:J7:107:ASP:OD1	26:2P:55:PRO:HD2	1.54	1.04
7:I8:1:MET:HG3	28:4P:118:LEU:HD22	1.04	1.04
6:W9:53:LYS:CG	7:PR:114:LYS:HZ2	1.64	1.04
7:kB:81:ALA:O	7:kB:85:ASP:HB2	1.58	1.04
18:MC:242:LYS:CD	29:SF:202:PEB:HBB2	1.86	1.04
7:HG:141:PHE:CE2	29:HG:203:PEB:HMB2	1.92	1.04
7:FJ:35:ASN:ND2	29:FJ:202:PEB:O1C	1.88	1.04
6:IJ:54:GLU:OE2	6:IJ:137:ARG:NH1	1.89	1.04
29:tJ:201:PEB:CMC	16:xJ:220:TYR:HB2	1.87	1.04
6:QK:5:ILE:HB	7:RK:3:ASP:OD2	1.57	1.04
7:DN:20:GLY:O	7:DN:24:LEU:HD13	1.57	1.04
6:IO:139:CYS:CB	29:IO:202:PEB:CAA	2.36	1.04
21:LP:71:MEN:O	21:LP:71:MEN:C	2.06	1.04
7:HQ:140:ALA:CB	29:HQ:203:PEB:CAB	2.35	1.04
7:HQ:141:PHE:HZ	29:HQ:203:PEB:C3A	1.71	1.04
6:SR:85:ASP:OD1	29:SR:201:PEB:H1D1	0.87	1.04
6:SR:91:ARG:NH1	7:TR:16:ALA:HA	1.73	1.04
6:UR:138:LEU:HB3	29:UR:202:PEB:HMD3	1.04	1.04
5:J1:15:ARG:HD2	15:bB:333:ARG:HE	1.18	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:k1:97:LEU:HD13	7:k1:165:VAL:HG22	1.35	1.03
8:e2:252:ALA:HB1	7:X2:120:LEU:HG	1.34	1.03
7:TB:125:ASN:OD1	7:TB:126:SER:N	1.91	1.03
18:MC:277:ARG:CD	5:DF:17:GLU:OE1	2.06	1.03
7:FG:61:CYS:CB	29:FG:203:PEB:CAD	2.23	1.03
6:IG:18:PHE:HE2	14:MG:265:LYS:CE	1.70	1.03
7:LG:62:GLU:OE1	29:LG:203:PEB:CBD	2.05	1.03
19:zJ:331:PRO:HB2	20:pP:68:PRO:HD3	1.36	1.03
19:zJ:363:ARG:CA	21:nP:62:TYR:CG	2.41	1.03
5:HK:40:ILE:HG13	29:HK:1002:PEB:HBA1	1.37	1.03
7:kK:97:LEU:HD13	7:kK:165:VAL:HG22	1.35	1.03
7:TL:25:GLN:NE2	25:1P:521:THR:CG2	2.04	1.03
29:fL:201:PEB:O1C	16:wL:115:PHE:HE1	1.06	1.03
16:xL:102:ALA:HA	16:xL:105:ARG:HD2	1.07	1.03
7:JM:125:ASN:OD1	7:JM:126:SER:N	1.92	1.03
7:TM:125:ASN:OD1	7:TM:126:SER:N	1.91	1.03
6:KO:53:LYS:HA	6:KO:53:LYS:HE2	1.41	1.03
25:YP:846:PRO:HG3	26:ZP:172:CYS:HA	1.37	1.03
21:oP:71:MEN:O	21:oP:77:ARG:HD3	1.55	1.03
21:sP:67:ARG:HG3	21:sP:68:PRO:HD2	1.34	1.03
7:VR:61:CYS:CB	29:VR:203:PEB:HAD1	1.87	1.03
5:L1:41:VAL:HG21	5:L1:98:ILE:CG1	1.87	1.03
6:Q2:138:LEU:CG	6:Q2:143:ASP:OD2	2.07	1.03
7:V2:46:SER:HB2	6:W2:157:ASP:OD2	1.57	1.03
6:F4:29:GLY:HA2	6:F4:32:GLN:HE22	1.17	1.03
6:F4:81:LYS:HD3	6:F4:84:ARG:HD3	1.07	1.03
3:B7:197:PHE:CE2	21:QP:140:LEU:HD11	1.92	1.03
6:WB:33:ARG:HH12	6:WB:147:GLN:NE2	1.55	1.03
18:MC:221:ALA:HB3	18:MC:222:PRO:HD3	1.40	1.03
18:ME:303:PHE:CG	6:gL:83:TYR:CD2	2.46	1.03
5:LF:68:GLN:NE2	27:3P:110:SER:HB3	1.71	1.03
7:PF:2:LEU:CD2	7:PF:6:SER:HB2	1.88	1.03
7:gI:1:MET:HG2	7:gI:104:VAL:HG23	1.05	1.03
29:GJ:202:PEB:OA	20:EP:113:LYS:HD3	1.57	1.03
4:EK:112:VAL:HG12	4:EK:113:ALA:H	1.23	1.03
5:JK:17:GLU:CB	15:bM:340:GLU:CG	2.24	1.03
7:HL:129:ARG:NH2	29:HL:202:PEB:O1C	1.90	1.03
6:QL:47:ASN:ND2	29:QL:202:PEB:OD	1.92	1.03
6:KQ:2:LYS:NZ	30:MQ:404:PUB:HBB1	1.72	1.03
5:L1:68:GLN:CD	15:bB:347:ALA:HB2	1.84	1.03
6:S2:91:ARG:NH1	7:T2:16:ALA:HA	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:18:TYR:CE1	21:LP:128:GLN:CD	2.36	1.03
12:E5:186:PRO:HG3	6:bI:57:ASP:HB2	1.40	1.03
7:I8:1:MET:CG	28:4P:118:LEU:HD21	1.86	1.03
4:E9:86:ARG:HA	8:eR:296:PRO:C	1.83	1.03
7:VB:81:ALA:O	7:VB:85:ASP:OD1	1.77	1.03
7:iB:125:ASN:OD1	7:iB:126:SER:N	1.92	1.03
6:jB:33:ARG:NH1	6:jB:147:GLN:OE1	1.90	1.03
6:jB:54:GLU:CG	29:jB:202:PEB:HAC1	1.87	1.03
10:dD:280:SER:OG	6:WI:70:GLY:N	1.92	1.03
7:VK:170:ASP:CB	14:MN:97:PHE:HB3	1.88	1.03
7:JL:5:PHE:CE2	7:JL:31:ILE:HD11	1.93	1.03
6:ML:68:ASN:HB2	6:ML:71:GLU:OE1	1.59	1.03
6:QL:68:ASN:HB2	6:QL:71:GLU:OE1	1.59	1.03
7:iM:125:ASN:OD1	7:iM:126:SER:N	1.92	1.03
20:gP:15:ALA:HB2	25:1P:532:LEU:HD11	1.39	1.03
7:FQ:141:PHE:HZ	29:FQ:203:PEB:HMA2	0.91	1.03
6:UR:50:ALA:O	6:UR:54:GLU:HG3	1.59	1.03
4:E1:142:LEU:HD13	4:E1:146:VAL:HG11	1.38	1.03
6:U1:154:ALA:C	6:U1:157:ASP:OD1	2.02	1.03
6:O2:142:ARG:HB2	6:lB:76:GLN:CD	1.84	1.03
6:I3:42:GLU:O	6:I3:42:GLU:CD	2.02	1.03
7:V9:136:ALA:HB2	13:kH:161:ILE:HG21	1.39	1.03
6:QB:54:GLU:OE2	29:QB:204:PEB:CMC	2.06	1.03
7:kB:85:ASP:OD1	29:kB:201:PEB:H1D1	1.59	1.03
7:CD:58:GLY:HA3	29:CD:203:PEB:HMD2	1.40	1.03
6:SJ:69:PRO:HG2	26:2P:132:LYS:HZ3	1.21	1.03
19:zJ:340:PHE:CG	20:EP:67:SER:OG	2.09	1.03
6:gL:68:ASN:HB2	6:gL:71:GLU:OE1	1.59	1.03
29:FN:201:PEB:CAC	14:MN:174:ARG:HH11	1.64	1.03
21:kP:71:MEN:O	21:kP:71:MEN:C	2.06	1.03
7:DQ:61:CYS:SG	29:DQ:203:PEB:HAD1	1.94	1.03
7:DQ:136:ALA:HB3	29:DQ:203:PEB:O1C	1.56	1.03
7:HQ:140:ALA:HB3	29:HQ:203:PEB:HAB2	1.33	1.03
6:WR:142:ARG:CD	29:WR:202:PEB:HHA1	1.88	1.03
7:M4:51:MET:HE1	7:M4:137:GLN:CG	1.87	1.03
12:E5:162:ASN:HA	29:kI:203:PEB:CGB	1.89	1.03
6:U7:141:PRO:HB3	7:XB:25:GLN:NE2	1.51	1.03
1:X9:263:THR:C	5:D9:115:GLU:CD	2.26	1.03
15:bB:341:ALA:CB	20:KP:68:PRO:CG	2.37	1.03
15:bB:341:ALA:HB3	15:bB:349:LYS:CG	1.89	1.03
15:bB:342:TYR:CD2	15:bB:347:ALA:HA	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:JB:125:ASN:OD1	7:JB:126:SER:N	1.92	1.03
18:MC:258:THR:CB	18:MC:259:PRO:HD3	1.86	1.03
18:ME:232:MET:CB	18:ME:236:ASP:HB2	1.89	1.03
18:ME:300:VAL:CG1	6:gL:49:GLU:CG	2.34	1.03
6:SJ:47:ASN:O	6:SJ:51:VAL:HG13	1.58	1.03
19:zJ:363:ARG:CD	21:nP:62:TYR:CB	2.32	1.03
4:MK:19:LEU:HD12	5:NK:98:ILE:HD11	1.37	1.03
6:SL:69:PRO:HG2	26:ZP:132:LYS:HZ3	1.20	1.03
21:jP:71:MEN:O	21:jP:71:MEN:C	2.06	1.03
5:J1:17:GLU:OE1	15:bB:333:ARG:HD2	1.58	1.02
6:M2:142:ARG:NH1	29:M2:202:PEB:C2B	2.22	1.02
7:P2:174:ALA:CB	6:W7:76:GLN:NE2	2.21	1.02
9:O3:308:TYR:CE2	4:KI:70:PRO:CD	2.42	1.02
6:F4:33:ARG:HH12	29:I4:202:PEB:HBD1	1.23	1.02
6:L4:18:PHE:CE1	7:M4:91:ARG:HG3	1.88	1.02
12:E5:208:ALA:CB	6:II:74:GLU:OE1	2.07	1.02
4:K7:57:GLN:CD	5:JF:145:THR:HB	1.81	1.02
6:AA:5:ILE:CD1	6:AA:27:ILE:CD1	2.34	1.02
7:NB:85:ASP:OD2	7:NB:117:TYR:OH	1.76	1.02
6:UB:67:LYS:NZ	14:MG:97:PHE:CZ	2.26	1.02
18:MC:242:LYS:CD	29:SF:202:PEB:CBB	2.36	1.02
18:ME:281:VAL:HG21	4:CI:52:ILE:HG21	1.41	1.02
18:ME:304:TRP:HD1	6:gL:84:ARG:CA	1.70	1.02
7:gF:1:MET:HG2	7:gF:104:VAL:HG23	1.05	1.02
14:MG:105:LYS:HG3	14:MG:106:ASP:H	1.22	1.02
13:kH:118:ARG:O	13:kH:120:ILE:CD1	2.07	1.02
5:NK:40:ILE:HG13	29:NK:1002:PEB:HBA1	1.40	1.02
6:EL:68:ASN:HB2	6:EL:71:GLU:OE1	1.59	1.02
6:SL:69:PRO:HG2	26:ZP:132:LYS:NZ	1.72	1.02
6:uL:68:ASN:HB2	6:uL:71:GLU:OE1	1.58	1.02
6:F4:81:LYS:C	6:F4:84:ARG:HD2	1.82	1.02
29:K4:202:PEB:CBD	6:L4:33:ARG:CZ	2.33	1.02
3:B9:172:LYS:HD2	5:N9:111:ASN:ND2	1.74	1.02
7:a9:147:THR:CG2	8:eR:287:ALA:CB	1.98	1.02
7:PI:2:LEU:CD2	7:PI:6:SER:HB2	1.88	1.02
16:wJ:102:ALA:HA	16:wJ:105:ARG:HD2	1.07	1.02
16:xJ:102:ALA:HA	16:xJ:105:ARG:HD2	1.07	1.02
7:PK:97:LEU:HD13	7:PK:165:VAL:HG22	1.35	1.02
6:mL:68:ASN:HB2	6:mL:71:GLU:OE1	1.59	1.02
7:NM:85:ASP:OD2	7:NM:117:TYR:OH	1.76	1.02
6:QM:54:GLU:OE2	29:QM:204:PEB:CMC	2.06	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RM:61:CYS:HB3	29:RM:203:PEB:HAD1	1.41	1.02
7:HN:20:GLY:O	7:HN:24:LEU:HD13	1.57	1.02
21:nP:24:VAL:HG13	22:xP:37:ILE:HG12	1.41	1.02
6:SR:137:ARG:HG2	29:SR:202:PEB:HHC1	1.41	1.02
3:B1:205:ARG:HH21	20:JP:52:LYS:CG	1.64	1.02
5:L1:36:GLN:HE21	29:L1:1002:PEB:C2B	1.72	1.02
29:e2:401:PEB:HAA2	7:P2:82:CYS:HB2	1.39	1.02
6:F4:81:LYS:O	6:F4:84:ARG:CG	2.06	1.02
7:C5:161:LEU:HD12	29:C5:202:PEB:HBA1	1.41	1.02
12:E5:185:ALA:HB1	6:bI:67:LYS:NZ	1.74	1.02
7:A8:161:LEU:CD1	29:A8:202:PEB:HBA1	1.89	1.02
4:E9:79:ILE:HG12	13:kH:220:GLU:O	1.54	1.02
5:L9:63:GLN:NE2	27:3P:284:VAL:CG2	2.22	1.02
7:LC:120:LEU:HD21	18:MC:219:SER:CB	1.87	1.02
4:CF:116:GLU:OE2	4:KF:120:ARG:HD3	0.85	1.02
5:JI:65:GLN:CB	20:PP:68:PRO:HD3	1.88	1.02
7:cI:147:THR:HB	7:cI:148:GLU:OE1	1.56	1.02
6:hI:9:VAL:HG21	7:iI:1:MET:HE2	1.39	1.02
7:HJ:129:ARG:NH2	29:HJ:202:PEB:O1C	1.90	1.02
7:TJ:25:GLN:HG3	25:YP:521:THR:CB	1.87	1.02
6:SL:68:ASN:HB2	6:SL:71:GLU:OE2	1.59	1.02
6:oL:68:ASN:HB2	6:oL:71:GLU:OE1	1.59	1.02
7:NM:25:GLN:HG2	21:oP:147:LYS:CG	1.81	1.02
7:NO:91:ARG:NH2	9:OO:400:VAL:HG22	1.71	1.02
25:1P:846:PRO:HG3	26:2P:172:CYS:HA	1.41	1.02
7:BQ:50:CYS:HG	29:BQ:203:PEB:CAA	0.78	1.02
7:HQ:141:PHE:HE2	29:HQ:203:PEB:CHA	1.71	1.02
3:B1:91:ALA:HB3	4:G1:15:GLN:HE22	1.21	1.02
7:T1:150:LYS:N	11:D8:260:THR:HG21	1.75	1.02
8:e2:77:PHE:CD1	8:e2:84:LYS:NZ	2.27	1.02
6:O2:115:GLU:N	6:O2:118:ARG:HH21	1.55	1.02
6:I3:140:VAL:O	6:I3:144:MET:O	1.76	1.02
6:F4:81:LYS:HD3	6:F4:84:ARG:CD	1.83	1.02
6:H4:113:ALA:O	6:H4:116:VAL:HG22	1.58	1.02
13:k6:280:ARG:CG	13:k6:283:LYS:NZ	2.22	1.02
5:L7:18:PHE:CE1	20:TP:68:PRO:CD	2.41	1.02
6:W7:140:VAL:CG1	6:W7:145:SER:C	2.33	1.02
12:E8:183:TYR:HB2	6:bF:83:TYR:CD2	1.94	1.02
6:KA:38:LEU:CD2	7:LA:24:LEU:HD23	1.90	1.02
7:LB:125:ASN:OD1	7:LB:126:SER:N	1.92	1.02
6:MB:54:GLU:OE1	29:MB:202:PEB:HMC1	1.60	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IC:1:MET:N	18:MC:63:ASP:OD1	1.91	1.02
18:MC:258:THR:HB	18:MC:259:PRO:HD2	1.41	1.02
7:LE:120:LEU:HD11	18:ME:213:THR:HG23	1.40	1.02
7:PF:2:LEU:HD23	7:PF:6:SER:CB	1.89	1.02
7:LG:62:GLU:OE1	29:LG:203:PEB:HBD2	1.60	1.02
4:MK:19:LEU:HD13	5:NK:98:ILE:HD13	1.04	1.02
7:cK:97:LEU:HD13	7:cK:165:VAL:HG22	1.35	1.02
6:SL:47:ASN:O	6:SL:51:VAL:HG13	1.58	1.02
6:MM:54:GLU:OE1	29:MM:202:PEB:HMC1	1.60	1.02
7:VM:81:ALA:O	7:VM:85:ASP:OD1	1.77	1.02
6:fM:135:ARG:CD	6:fM:157:ASP:OD1	2.08	1.02
7:kM:85:ASP:OD1	29:kM:201:PEB:CHC	2.08	1.02
6:IO:42:GLU:O	6:IO:42:GLU:CD	2.02	1.02
20:tP:9:VAL:HG11	25:1P:704:GLN:HB3	1.41	1.02
7:DQ:50:CYS:SG	29:DQ:203:PEB:CAA	2.47	1.02
6:S2:81:LYS:HD3	29:S2:201:PEB:CAB	1.88	1.02
7:I4:102:ALA:CB	7:I4:105:LEU:CD1	2.30	1.02
7:B8:91:ARG:HH21	18:ME:293:MET:CG	1.73	1.02
7:I8:158:CYS:SG	29:I8:202:PEB:HAA1	1.06	1.02
12:E8:173:PHE:CZ	6:ZF:83:TYR:CE2	2.48	1.02
4:K9:57:GLN:CD	5:JI:145:THR:HB	1.83	1.02
7:NB:25:GLN:HB2	21:MP:147:LYS:HG3	1.37	1.02
6:hB:135:ARG:CD	6:hB:157:ASP:OD1	2.08	1.02
7:kB:85:ASP:OD1	29:kB:201:PEB:CHC	2.08	1.02
18:MC:268:VAL:CG1	7:PF:148:GLU:CA	2.18	1.02
6:FD:81:LYS:O	6:FD:84:ARG:CG	2.06	1.02
4:GF:2:LYS:HG3	4:GF:7:GLU:OE2	1.60	1.02
6:hF:9:VAL:HG21	7:iF:1:MET:HE2	1.39	1.02
7:kI:1:MET:HE3	7:kI:104:VAL:HG23	1.41	1.02
6:GJ:68:ASN:HB3	6:GJ:69:PRO:HD2	1.41	1.02
7:JJ:5:PHE:CE2	7:JJ:31:ILE:HD11	1.93	1.02
6:MJ:68:ASN:HB2	6:MJ:71:GLU:OE1	1.59	1.02
7:TJ:25:GLN:NE2	25:YP:521:THR:CG2	2.03	1.02
5:LK:36:GLN:HE21	29:LK:1002:PEB:C2B	1.72	1.02
6:CL:72:ALA:O	6:CL:78:LYS:NZ	1.92	1.02
6:QL:74:GLU:H	6:QL:78:LYS:CE	1.55	1.02
7:I8:79:MET:HE1	15:bM:229:LEU:O	1.57	1.01
4:E9:79:ILE:CD1	13:kH:220:GLU:O	2.08	1.01
5:L9:18:PHE:CD1	20:vP:67:SER:OG	2.10	1.01
6:U9:69:PRO:HG2	7:TR:123:PRO:HA	1.37	1.01
7:RB:61:CYS:HB3	29:RB:203:PEB:HAD1	1.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UB:54:GLU:OE1	29:UB:202:PEB:HMC1	1.60	1.01
6:UB:135:ARG:CD	6:UB:157:ASP:OD1	2.08	1.01
6:aB:54:GLU:OE1	29:aB:202:PEB:HMC1	1.60	1.01
6:dB:135:ARG:CD	6:dB:157:ASP:OD1	2.08	1.01
6:fB:54:GLU:OE1	29:fB:202:PEB:HMC1	1.60	1.01
7:BC:73:CYS:HB3	7:BC:79:MET:SD	2.00	1.01
18:MC:240:ARG:CD	6:SF:133:TYR:CE1	2.43	1.01
18:MC:284:LEU:HD11	5:DF:18:PHE:CE2	1.95	1.01
6:FD:43:LYS:HD2	6:FD:143:ASP:O	1.58	1.01
6:FD:81:LYS:HD3	6:FD:84:ARG:CD	1.82	1.01
6:EE:33:ARG:NH2	29:HE:202:PEB:OD	1.93	1.01
6:KJ:73:GLY:HA2	6:KJ:78:LYS:HG3	1.42	1.01
6:QJ:47:ASN:ND2	29:QJ:202:PEB:OD	1.92	1.01
6:SJ:68:ASN:HB2	6:SJ:71:GLU:OE2	1.59	1.01
6:aJ:68:ASN:HB2	6:aJ:71:GLU:OE1	1.59	1.01
6:uJ:68:ASN:HB2	6:uJ:71:GLU:OE1	1.58	1.01
19:zJ:332:LEU:HD21	20:pP:64:ASP:N	1.74	1.01
6:ML:147:GLN:NE2	29:PL:202:PEB:CMC	2.21	1.01
7:ZL:108:ARG:NH2	16:xL:41:ASN:HB2	1.73	1.01
6:kL:68:ASN:HB2	6:kL:71:GLU:OE1	1.59	1.01
7:RM:61:CYS:SG	29:RM:203:PEB:HAD1	2.00	1.01
7:RM:61:CYS:HB2	29:RM:203:PEB:CAD	1.88	1.01
6:aM:54:GLU:OE1	29:aM:202:PEB:HMC1	1.60	1.01
6:IM:54:GLU:OE1	29:IM:202:PEB:C3C	1.96	1.01
6:IO:140:VAL:O	6:IO:144:MET:O	1.76	1.01
7:MO:87:GLU:CD	7:MO:91:ARG:HD3	1.85	1.01
4:M1:93:ARG:HG3	5:N1:18:PHE:CD1	1.95	1.01
5:N1:40:ILE:HG13	29:N1:1002:PEB:HBA1	1.41	1.01
7:M4:51:MET:CE	7:M4:137:GLN:HB2	1.90	1.01
12:E5:37:VAL:HG23	7:a9:167:SER:OG	1.57	1.01
12:E5:40:VAL:CG1	7:a9:26:ALA:HB1	1.81	1.01
12:E5:183:TYR:HB2	6:bI:83:TYR:CD2	1.95	1.01
13:k6:187:THR:HG21	5:H7:141:LEU:HB2	1.43	1.01
12:E8:162:ASN:HD21	29:kF:203:PEB:C2B	1.73	1.01
6:U9:67:LYS:HZ1	13:kH:259:SER:CA	1.64	1.01
6:CA:34:SER:O	6:CA:38:LEU:HB2	1.60	1.01
7:DA:20:GLY:O	7:DA:24:LEU:HD13	1.57	1.01
16:AB:146:PRO:HD2	16:AB:147:LYS:H	1.24	1.01
7:RB:61:CYS:SG	29:RB:203:PEB:HAD1	2.00	1.01
6:jB:54:GLU:OE1	29:jB:202:PEB:HBC2	1.58	1.01
4:CF:2:LYS:HG2	4:CF:7:GLU:OE2	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JF:65:GLN:CB	20:rP:68:PRO:HD3	1.90	1.01
6:QF:33:ARG:NH1	6:QF:151:GLU:OE2	1.92	1.01
6:hF:9:VAL:CG2	7:iF:1:MET:HE1	1.79	1.01
7:BG:140:ALA:HB3	29:BG:203:PEB:HAB2	1.41	1.01
6:KG:2:LYS:NZ	30:MG:402:PUB:CBB	2.23	1.01
13:kH:280:ARG:CG	13:kH:283:LYS:NZ	2.22	1.01
4:CI:2:LYS:HG2	4:CI:7:GLU:OE2	1.60	1.01
6:CJ:72:ALA:O	6:CJ:78:LYS:NZ	1.92	1.01
6:SL:33:ARG:CD	6:SL:147:GLN:NE2	2.23	1.01
6:WL:73:GLY:HA2	6:WL:78:LYS:HB3	1.37	1.01
19:zL:212:PHE:HA	19:zL:216:TYR:OH	1.56	1.01
6:OM:54:GLU:OE1	29:OM:202:PEB:HMC1	1.60	1.01
7:PM:61:CYS:SG	29:PM:202:PEB:CAD	2.49	1.01
6:WM:135:ARG:CD	6:WM:157:ASP:OD1	2.08	1.01
21:oP:60:LEU:HD22	21:oP:65:ILE:HD11	1.40	1.01
7:FQ:47:ASN:CB	29:FQ:203:PEB:HMA3	1.90	1.01
6:WR:138:LEU:HD12	6:WR:143:ASP:OD2	1.59	1.01
3:B1:228:MET:HE3	20:AP:82:LEU:HD11	1.40	1.01
5:J1:17:GLU:HB3	15:bB:340:GLU:HG2	1.08	1.01
6:K3:53:LYS:HA	6:K3:53:LYS:HE2	1.41	1.01
7:M3:87:GLU:CD	7:M3:91:ARG:HD3	1.85	1.01
7:a7:85:ASP:OD2	29:a7:201:PEB:NB	1.93	1.01
7:C8:161:LEU:HD12	29:C8:202:PEB:HBA1	1.41	1.01
6:W9:76:GLN:NE2	7:PR:174:ALA:CB	2.23	1.01
7:a9:147:THR:HG22	8:eR:287:ALA:HB2	1.37	1.01
6:WB:135:ARG:CD	6:WB:157:ASP:OD1	2.08	1.01
6:aB:135:ARG:CD	6:aB:157:ASP:OD1	2.08	1.01
10:dD:283:ARG:HG3	7:TI:148:GLU:CB	1.90	1.01
7:CD:58:GLY:CA	29:CD:203:PEB:HMD2	1.91	1.01
7:ID:102:ALA:HB1	7:ID:105:LEU:HD12	1.04	1.01
18:ME:285:TYR:O	5:DI:18:PHE:HD2	1.41	1.01
13:kH:130:GLU:OE1	29:YM:203:PEB:CMB	2.09	1.01
7:PI:2:LEU:HD23	7:PI:6:SER:CB	1.89	1.01
7:cI:1:MET:HE1	7:cI:103:SER:O	1.59	1.01
6:YJ:68:ASN:HB2	6:YJ:71:GLU:OE1	1.59	1.01
6:oJ:68:ASN:HB2	6:oJ:71:GLU:OE1	1.59	1.01
29:pJ:202:PEB:C4D	6:qJ:33:ARG:HE	1.74	1.01
6:YL:68:ASN:HB2	6:YL:71:GLU:OE1	1.59	1.01
16:wL:179:ALA:O	16:xL:40:VAL:HG21	1.61	1.01
7:NM:15:LYS:NZ	21:oP:131:GLN:OE1	1.91	1.01
6:SR:81:LYS:HD3	29:SR:201:PEB:CAB	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e2:145:SER:HA	8:e2:149:GLN:CG	1.90	1.01
7:I8:6:SER:HB2	7:I8:26:ALA:CB	1.91	1.01
4:E9:93:ARG:NH2	5:H9:74:TYR:OH	1.93	1.01
29:FA:201:PEB:CBC	14:MA:174:ARG:HH12	1.52	1.01
17:BB:182:GLU:HG3	29:BB:301:PEB:HMD1	1.36	1.01
6:CB:135:ARG:CD	6:CB:157:ASP:OD1	2.08	1.01
6:OB:54:GLU:OE1	29:OB:202:PEB:HMC1	1.60	1.01
7:PB:61:CYS:SG	29:PB:202:PEB:CAD	2.49	1.01
6:WB:54:GLU:OE1	29:WB:202:PEB:HMC1	1.60	1.01
6:IC:152:PHE:CE1	6:IC:156:LEU:HD21	1.96	1.01
6:KC:152:PHE:CE1	6:KC:156:LEU:HD21	1.96	1.01
7:JE:73:CYS:HB3	7:JE:79:MET:SD	2.00	1.01
18:ME:200:ARG:NH1	18:ME:237:PHE:CD2	1.96	1.01
3:BF:219:ALA:CB	27:3P:60:ALA:O	2.08	1.01
6:IJ:72:ALA:HB3	29:IJ:201:PEB:CMA	1.90	1.01
6:SJ:69:PRO:HG2	26:2P:132:LYS:NZ	1.76	1.01
6:kJ:68:ASN:HB2	6:kJ:71:GLU:OE1	1.59	1.01
6:KL:73:GLY:HA2	6:KL:78:LYS:HG3	1.42	1.01
16:xL:102:ALA:CA	16:xL:105:ARG:CD	2.34	1.01
6:IN:38:LEU:HG	7:JN:24:LEU:CD2	1.91	1.01
6:U2:139:CYS:HB2	29:U2:202:PEB:CBA	1.88	1.01
7:A5:161:LEU:CD1	29:A5:202:PEB:HBA1	1.89	1.01
4:E7:93:ARG:NH2	5:H7:74:TYR:OH	1.93	1.01
7:I8:14:ALA:HB1	21:nP:124:GLY:H	1.23	1.01
7:a9:85:ASP:OD2	29:a9:201:PEB:NB	1.93	1.01
6:GB:152:PHE:CE2	6:GB:156:LEU:HD11	1.95	1.01
6:fB:135:ARG:CD	6:fB:157:ASP:OD1	2.08	1.01
7:ID:174:ALA:HB3	6:WI:76:GLN:HG2	1.42	1.01
7:DE:73:CYS:HB3	7:DE:79:MET:SD	2.00	1.01
6:IE:152:PHE:CE1	6:IE:156:LEU:HD21	1.96	1.01
7:FJ:139:VAL:HG21	25:YP:516:SER:HA	1.38	1.01
17:yJ:111:CYS:CB	30:yJ:303:PUB:HBA2	1.88	1.01
19:zL:366:ARG:HD2	21:LP:62:TYR:HD2	1.21	1.01
6:UM:135:ARG:CD	6:UM:157:ASP:OD1	2.08	1.01
7:kM:85:ASP:OD1	29:kM:201:PEB:H1D1	1.59	1.01
29:FQ:201:PEB:CMC	14:MQ:181:TYR:HD2	1.37	1.01
3:B1:17:VAL:HG21	31:N1:1001:CYC:HBA1	1.43	1.00
6:Q1:5:ILE:HB	7:R1:3:ASP:OD2	1.57	1.00
6:O2:138:LEU:HB2	29:O2:202:PEB:HMD3	1.42	1.00
7:N3:87:GLU:CD	7:N3:91:ARG:HD3	1.86	1.00
7:N3:91:ARG:NH2	9:O3:400:VAL:HG22	1.72	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:43:LYS:HD2	6:F4:143:ASP:O	1.58	1.00
7:G5:149:ARG:NH2	7:k9:150:LYS:CE	2.23	1.00
7:I5:14:ALA:HA	21:LP:124:GLY:HA3	1.42	1.00
11:D5:219:TYR:CZ	5:HK:152:ASP:CA	2.39	1.00
6:J8:9:VAL:HG11	7:K8:95:TYR:CD1	1.96	1.00
16:AB:172:VAL:CG1	7:kB:115:GLU:OE1	2.09	1.00
7:JC:73:CYS:HB3	7:JC:79:MET:SD	2.00	1.00
18:ME:229:GLU:CD	18:ME:242:LYS:HZ1	1.68	1.00
7:gF:1:MET:CG	7:gF:104:VAL:HG23	1.91	1.00
7:TJ:25:GLN:CD	25:YP:521:THR:HG21	1.83	1.00
6:eJ:68:ASN:HB2	6:eJ:71:GLU:OE1	1.59	1.00
19:zJ:363:ARG:N	21:nP:62:TYR:CE2	2.29	1.00
6:UK:154:ALA:C	6:UK:157:ASP:OD1	2.02	1.00
6:eL:68:ASN:HB2	6:eL:71:GLU:OE1	1.59	1.00
7:LM:125:ASN:OD1	7:LM:126:SER:N	1.92	1.00
6:KN:38:LEU:CD2	7:LN:24:LEU:HD23	1.90	1.00
6:WR:142:ARG:HD3	29:WR:202:PEB:HBA3	1.02	1.00
6:Z1:52:VAL:HG13	6:Z1:86:VAL:HG12	1.43	1.00
7:I5:7:ARG:HH21	28:bP:88:LEU:HD22	1.23	1.00
7:A5:161:LEU:HD12	29:A5:202:PEB:HBA1	1.41	1.00
12:E5:162:ASN:ND2	29:kI:203:PEB:C2B	2.23	1.00
12:E8:185:ALA:HB1	6:bF:67:LYS:NZ	1.75	1.00
5:H9:141:LEU:HB2	13:kH:187:THR:HG21	1.43	1.00
7:FA:115:GLU:OE1	14:MA:111:ARG:CB	2.08	1.00
6:EB:135:ARG:CD	6:EB:157:ASP:OD1	2.08	1.00
18:ME:232:MET:SD	18:ME:236:ASP:O	2.18	1.00
4:GF:104:THR:HG21	4:GF:156:TYR:CE2	1.95	1.00
6:IG:2:LYS:HZ3	14:MG:254:VAL:N	1.57	1.00
4:EI:2:LYS:HG3	4:EI:7:GLU:OE2	1.60	1.00
6:GJ:72:ALA:HB3	29:GJ:201:PEB:CMA	1.65	1.00
6:QJ:68:ASN:HB2	6:QJ:71:GLU:OE1	1.59	1.00
7:RL:113:LEU:CD2	7:RL:176:ILE:CG2	2.39	1.00
19:zL:363:ARG:HD3	21:LP:62:TYR:HB3	1.08	1.00
6:EM:135:ARG:CD	6:EM:157:ASP:OD1	2.08	1.00
6:WM:54:GLU:OE1	29:WM:202:PEB:HMC1	1.60	1.00
6:fM:54:GLU:OE1	29:fM:202:PEB:HMC1	1.60	1.00
7:kM:81:ALA:O	7:kM:85:ASP:HB2	1.58	1.00
5:F1:21:ASN:HD22	29:Q7:202:PEB:HBC2	1.24	1.00
5:J1:145:THR:CG2	5:J1:150:ILE:CD1	2.38	1.00
8:e2:118:ARG:NH1	7:V2:87:GLU:OE2	1.94	1.00
8:e2:147:PHE:O	8:e2:151:ASN:ND2	1.93	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:97:LEU:CD2	6:O2:155:TYR:HD2	1.75	1.00
6:O2:137:ARG:HG3	29:O2:202:PEB:HHC1	1.43	1.00
6:F4:33:ARG:CG	6:H4:25:GLU:OE1	2.09	1.00
7:C5:77:ARG:NH1	29:C5:201:PEB:O2B	1.95	1.00
5:J7:74:TYR:OH	4:M7:93:ARG:NH2	1.94	1.00
6:J8:9:VAL:HG21	7:K8:95:TYR:HE1	1.25	1.00
7:C8:77:ARG:NH1	29:C8:201:PEB:O2B	1.95	1.00
12:E8:188:ALA:CB	6:bF:64:ALA:HB1	1.92	1.00
6:U9:69:PRO:O	8:eR:275:GLY:HA2	0.83	1.00
6:W9:140:VAL:CG1	6:W9:145:SER:C	2.33	1.00
14:MA:101:LEU:H	14:MA:101:LEU:HD23	1.24	1.00
18:MC:240:ARG:HD2	6:SF:133:TYR:CE1	1.95	1.00
7:BE:73:CYS:HB3	7:BE:79:MET:SD	2.00	1.00
18:ME:312:LEU:HD22	7:vL:69:PRO:HD2	1.01	1.00
7:cF:1:MET:HE1	7:cF:103:SER:O	1.59	1.00
6:hF:9:VAL:CG2	7:iF:1:MET:HE2	1.88	1.00
6:EJ:68:ASN:HB2	6:EJ:71:GLU:OE1	1.59	1.00
7:RJ:113:LEU:CD2	7:RJ:176:ILE:CG2	2.39	1.00
6:mJ:68:ASN:HB2	6:mJ:71:GLU:OE1	1.59	1.00
19:zJ:332:LEU:HB2	20:pP:67:SER:OG	1.58	1.00
4:IK:49:GLN:HE22	15:bM:337:PRO:CB	1.74	1.00
5:JK:18:PHE:H	15:bM:335:ILE:HD12	1.25	1.00
5:JK:145:THR:CG2	5:JK:150:ILE:CD1	2.38	1.00
7:VK:170:ASP:HB3	14:MN:97:PHE:HB3	1.41	1.00
7:ZL:108:ARG:NH1	16:xL:41:ASN:CG	2.19	1.00
15:bM:340:GLU:O	15:bM:349:LYS:HG3	1.59	1.00
6:CM:135:ARG:CD	6:CM:157:ASP:OD1	2.08	1.00
6:EM:36:ALA:HB2	6:EM:147:GLN:HE21	1.20	1.00
6:EM:36:ALA:HB2	6:EM:147:GLN:NE2	1.76	1.00
6:aM:135:ARG:CD	6:aM:157:ASP:OD1	2.08	1.00
6:jM:147:GLN:NE2	29:mM:202:PEB:CMC	2.25	1.00
8:eR:80:GLU:OE2	7:NR:115:GLU:HG3	1.57	1.00
4:E1:68:GLN:O	13:k6:107:TYR:O	1.80	1.00
5:J1:145:THR:HG21	5:J1:150:ILE:HD12	1.39	1.00
6:S2:47:ASN:ND2	29:S2:202:PEB:OD	1.94	1.00
12:E5:173:PHE:CZ	6:ZI:83:TYR:CE2	2.50	1.00
1:X7:263:THR:HG22	5:D7:115:GLU:CG	1.92	1.00
5:L9:30:MET:HE3	27:3P:237:ALA:HB1	1.37	1.00
6:U9:141:PRO:HB3	7:XM:25:GLN:HE22	0.84	1.00
6:UB:67:LYS:HD3	14:MG:97:PHE:CE1	1.97	1.00
7:DC:73:CYS:HB3	7:DC:79:MET:SD	2.00	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:242:LYS:HD2	29:SF:202:PEB:HBB1	1.39	1.00
7:LE:120:LEU:CD2	18:ME:219:SER:OG	2.10	1.00
18:ME:268:VAL:CG1	7:PI:148:GLU:C	2.27	1.00
6:hI:9:VAL:HG21	7:iI:1:MET:SD	2.02	1.00
19:zJ:343:GLN:CD	20:iP:61:ARG:HA	1.85	1.00
17:yL:111:CYS:HB2	30:yL:303:PUB:HBA1	1.04	1.00
6:UM:54:GLU:OE1	29:MQ:401:PEB:HMC1	1.60	1.00
6:dM:135:ARG:CD	6:dM:157:ASP:OD1	2.08	1.00
6:CN:34:SER:O	6:CN:38:LEU:HB2	1.60	1.00
6:W2:97:LEU:CD2	6:W2:155:TYR:HD2	1.75	1.00
7:I4:102:ALA:HB1	7:I4:105:LEU:HD12	1.04	1.00
3:B7:172:LYS:HB3	26:2P:86:PRO:CD	1.90	1.00
3:B9:205:ARG:HH12	21:sP:62:TYR:HB2	1.26	1.00
18:ME:229:GLU:CD	18:ME:242:LYS:NZ	2.19	1.00
7:FG:61:CYS:HB2	29:FG:203:PEB:HAD1	1.44	1.00
4:GI:104:THR:HG21	4:GI:156:TYR:CE2	1.95	1.00
4:II:2:LYS:HG3	4:II:7:GLU:OE2	1.60	1.00
29:vJ:201:PEB:O1C	16:xJ:137:TYR:OH	1.79	1.00
6:GM:152:PHE:CE2	6:GM:156:LEU:HD11	1.95	1.00
13:k6:220:GLU:O	4:E7:79:ILE:CD1	2.08	1.00
12:E8:186:PRO:HG3	6:bF:57:ASP:HB2	1.40	1.00
29:vL:201:PEB:O1C	16:xL:137:TYR:OH	1.78	1.00
6:IO:139:CYS:HB3	29:IO:202:PEB:HAA2	1.00	1.00
7:HQ:136:ALA:CB	29:HQ:203:PEB:O2C	2.08	1.00
7:HQ:141:PHE:HZ	29:HQ:203:PEB:H3A1	1.27	1.00
5:H1:152:ASP:HA	11:D8:219:TYR:OH	1.60	1.00
8:e2:248:CYS:SG	7:X2:116:THR:OG1	2.19	1.00
12:E5:183:TYR:CE2	6:bI:83:TYR:HB2	1.93	1.00
3:B7:174:GLU:OE2	26:2P:80:SER:O	1.79	1.00
6:U7:141:PRO:HB3	7:XB:25:GLN:HE22	0.84	1.00
4:K9:52:ILE:CD1	20:vP:68:PRO:CG	2.39	1.00
18:MC:221:ALA:HB3	18:MC:222:PRO:CD	1.91	1.00
18:ME:221:ALA:HB3	18:ME:222:PRO:CD	1.91	1.00
18:ME:268:VAL:HG12	7:PI:148:GLU:CA	1.70	1.00
4:IF:2:LYS:HG3	4:IF:7:GLU:OE2	1.60	1.00
7:gI:1:MET:CG	7:gI:104:VAL:HG23	1.91	1.00
19:zJ:340:PHE:CD1	20:EP:67:SER:OG	2.14	1.00
7:DO:39:ASP:N	29:DO:202:PEB:HMD1	1.75	1.00
7:NO:87:GLU:CD	7:NO:91:ARG:HD3	1.86	1.00
6:C3:106:ASP:OD1	6:C3:107:GLU:N	1.95	0.99
12:E5:40:VAL:O	7:a9:26:ALA:HB1	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E8:183:TYR:HB2	6:bF:83:TYR:HE2	1.25	0.99
7:a9:62:GLU:OE2	7:a9:129:ARG:HG3	1.60	0.99
6:IA:38:LEU:HG	7:JA:24:LEU:CD2	1.91	0.99
6:YB:54:GLU:OE1	29:YB:203:PEB:HMC1	1.60	0.99
6:KE:152:PHE:CE1	6:KE:156:LEU:HD21	1.96	0.99
7:BG:61:CYS:SG	29:BG:203:PEB:CAD	2.50	0.99
7:LG:113:LEU:HD13	14:MG:236:TYR:CZ	1.97	0.99
7:PK:3:ASP:OD1	7:PK:99:ALA:HB1	1.62	0.99
6:bK:5:ILE:HB	7:cK:3:ASP:OD2	1.62	0.99
6:dK:32:GLN:O	6:dK:33:ARG:NH2	1.93	0.99
6:IL:72:ALA:HB3	29:IL:201:PEB:CMA	1.90	0.99
6:YM:54:GLU:OE1	29:YM:203:PEB:HMC1	1.60	0.99
6:KQ:2:LYS:HZ3	30:MQ:404:PUB:HBB2	0.86	0.99
6:UR:43:LYS:HB3	6:UR:144:MET:CE	1.91	0.99
4:E1:112:VAL:HG12	4:E1:113:ALA:N	1.76	0.99
7:L5:79:MET:CE	13:k6:233:VAL:CB	2.39	0.99
5:F9:18:PHE:CD1	8:eR:300:VAL:CG1	2.44	0.99
5:J9:74:TYR:OH	4:M9:93:ARG:NH2	1.95	0.99
4:K9:57:GLN:OE1	5:JI:145:THR:OG1	1.78	0.99
4:EF:2:LYS:HG3	4:EF:7:GLU:OE2	1.60	0.99
4:CI:7:GLU:OE2	4:MI:22:THR:HG21	1.62	0.99
6:QJ:74:GLU:N	6:QJ:78:LYS:HD3	1.77	0.99
7:ZL:111:ASN:O	16:xL:39:LEU:HD22	1.60	0.99
19:zL:366:ARG:HD2	21:LP:62:TYR:CD2	1.97	0.99
16:AM:146:PRO:HD2	16:AM:147:LYS:H	1.24	0.99
6:hM:135:ARG:CD	6:hM:157:ASP:OD1	2.08	0.99
8:e2:293:THR:CG2	7:T2:135:LYS:NZ	2.24	0.99
7:BQ:61:CYS:SG	29:BQ:203:PEB:CAD	2.49	0.99
6:OR:131:ILE:HG22	6:OR:160:ILE:HD11	1.44	0.99
6:QR:97:LEU:CD2	6:QR:155:TYR:HD2	1.75	0.99
6:O2:131:ILE:HG22	6:O2:160:ILE:HD11	1.44	0.99
6:U2:139:CYS:SG	29:U2:202:PEB:HBA3	1.90	0.99
7:k7:150:LYS:HZ2	7:G8:149:ARG:NE	1.52	0.99
1:X9:263:THR:CG2	5:D9:115:GLU:CD	2.29	0.99
6:KB:54:GLU:OE1	29:KB:202:PEB:HMC1	1.60	0.99
6:jB:33:ARG:NH1	6:jB:147:GLN:CD	2.20	0.99
18:MC:309:PRO:HD2	18:MC:310:SER:H	1.26	0.99
18:ME:301:ASN:ND2	6:gL:53:LYS:NZ	2.10	0.99
29:BG:201:PEB:CBD	14:MG:126:SER:HB2	1.78	0.99
4:GI:2:LYS:HG3	4:GI:7:GLU:OE2	1.60	0.99
5:HK:40:ILE:CG1	29:HK:1002:PEB:HBA1	1.92	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NL:114:LYS:CE	7:NL:176:ILE:C	2.35	0.99
6:UM:43:LYS:HD2	14:MQ:115:TYR:CE2	1.81	0.99
6:JD:133:TYR:OH	6:JD:137:ARG:NE	1.96	0.99
18:ME:304:TRP:O	18:ME:306:LYS:N	1.96	0.99
3:BF:204:ARG:HH21	21:uP:61:LEU:HD23	1.14	0.99
7:JG:108:ARG:CZ	14:MG:257:THR:CG2	2.41	0.99
6:gJ:68:ASN:HB2	6:gJ:71:GLU:OE1	1.59	0.99
6:WK:49:GLU:HA	6:WK:53:LYS:HZ1	1.26	0.99
6:OR:97:LEU:CD2	6:OR:155:TYR:HD2	1.75	0.99
6:K3:54:GLU:OE2	29:K3:202:PEB:C3C	2.11	0.99
10:d4:331:GLN:HG2	10:dD:335:LEU:HD12	1.02	0.99
6:J5:9:VAL:CG1	7:K5:95:TYR:CE1	2.45	0.99
11:D5:260:THR:HG21	7:TK:150:LYS:N	1.78	0.99
13:k6:118:ARG:CB	6:S7:137:ARG:HH12	1.76	0.99
18:ME:221:ALA:HB3	18:ME:222:PRO:HD3	1.40	0.99
18:ME:313:THR:O	18:ME:316:TYR:CE2	2.16	0.99
7:LJ:26:ALA:CB	28:4P:228:ILE:CG2	2.41	0.99
6:SJ:67:LYS:NZ	26:2P:121:VAL:CG1	2.26	0.99
19:zJ:363:ARG:CG	21:nP:62:TYR:CD1	2.46	0.99
7:DO:39:ASP:CA	29:DO:202:PEB:CMD	2.38	0.99
8:eR:108:HIS:NE2	7:PR:84:ARG:CD	2.26	0.99
6:SR:54:GLU:OE1	6:SR:137:ARG:HD2	1.63	0.99
6:UR:97:LEU:CD2	6:UR:155:TYR:HD2	1.75	0.99
4:M1:111:LEU:HD23	31:M1:1001:CYC:HAB2	1.44	0.99
3:B7:170:ARG:HA	26:2P:88:THR:HG21	1.44	0.99
7:A8:161:LEU:HD12	29:A8:202:PEB:HBA1	1.41	0.99
4:CF:7:GLU:OE2	4:MF:22:THR:HG21	1.62	0.99
3:BI:224:MET:HE3	5:JI:152:ASP:CA	1.91	0.99
6:WI:9:VAL:CG2	7:YI:1:MET:HE2	1.92	0.99
19:zJ:217:ALA:HB3	19:zJ:218:PRO:CD	1.92	0.99
6:KM:54:GLU:OE1	29:KM:202:PEB:HMC1	1.60	0.99
29:FQ:201:PEB:HMC3	14:MQ:181:TYR:HD2	1.20	0.99
6:Q2:97:LEU:CD2	6:Q2:155:TYR:HD2	1.75	0.99
6:W2:65:TYR:CE1	6:W2:66:LEU:HD11	1.90	0.99
6:K3:53:LYS:NZ	6:K3:83:TYR:CZ	2.31	0.99
10:d4:331:GLN:HG3	10:dD:331:GLN:CD	1.88	0.99
5:L7:30:MET:HE3	27:aP:237:ALA:HB1	1.40	0.99
6:J8:9:VAL:CG1	7:K8:95:TYR:CE1	2.45	0.99
15:bB:373:GLU:OE1	21:MP:124:GLY:CA	2.10	0.99
6:UB:43:LYS:HD2	14:MG:115:TYR:HE2	0.96	0.99
6:IJ:54:GLU:OE2	6:IJ:137:ARG:CZ	2.11	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NL:114:LYS:CE	7:NL:177:SER:O	2.02	0.99
29:RL:202:PEB:HAD1	6:SL:33:ARG:NH1	1.77	0.99
6:aL:68:ASN:HB2	6:aL:71:GLU:OE1	1.59	0.99
15:bM:343:PHE:CZ	20:mP:64:ASP:N	2.30	0.99
7:LQ:58:GLY:CA	29:LQ:202:PEB:HMC2	1.93	0.99
5:H1:40:ILE:CG1	29:H1:1002:PEB:HBA1	1.92	0.99
6:S2:54:GLU:OE1	6:S2:137:ARG:HD2	1.63	0.99
1:X7:263:THR:CG2	5:D7:115:GLU:CD	2.29	0.99
3:B7:209:GLN:HE21	21:QP:128:GLN:HE22	1.07	0.99
18:ME:300:VAL:HG12	6:gL:49:GLU:HB3	1.44	0.99
6:WF:9:VAL:CG2	7:YF:1:MET:HE2	1.92	0.99
7:LJ:26:ALA:HB3	28:4P:228:ILE:CG2	1.93	0.99
7:nJ:49:SER:OG	16:xJ:205:LYS:NZ	1.96	0.99
29:FN:201:PEB:HAC2	14:MN:174:ARG:HH11	1.17	0.99
7:FQ:54:ASP:HB2	29:FQ:203:PEB:HBA1	1.43	0.99
6:b1:5:ILE:HB	7:c1:3:ASP:OD2	1.62	0.99
6:U2:50:ALA:O	6:U2:54:GLU:HG3	1.59	0.99
6:L4:18:PHE:CD1	7:M4:91:ARG:HG2	1.97	0.99
4:K7:57:GLN:CD	5:JF:145:THR:CB	2.36	0.99
7:MD:124:THR:N	6:UI:69:PRO:CG	2.04	0.99
29:BG:201:PEB:HBC2	29:MG:404:PEB:HBD2	1.02	0.99
6:sJ:6:THR:HB	16:xJ:81:VAL:CG1	1.93	0.99
6:GL:73:GLY:HA2	6:GL:78:LYS:HB3	1.45	0.99
6:IN:37:ARG:CD	6:IN:97:LEU:O	2.11	0.99
7:DO:39:ASP:N	29:DO:202:PEB:HMD3	1.66	0.99
7:P1:3:ASP:OD1	7:P1:99:ALA:O	1.81	0.98
6:W1:49:GLU:HA	6:W1:53:LYS:HZ1	1.26	0.98
7:N2:77:ARG:HH12	29:N2:201:PEB:CGB	1.64	0.98
6:E3:106:ASP:OD1	6:E3:107:GLU:N	1.96	0.98
7:N3:91:ARG:HH21	9:O3:400:VAL:CG2	1.66	0.98
7:B5:108:ARG:HH21	18:MC:268:VAL:N	1.53	0.98
6:uJ:111:ALA:HB1	16:xJ:96:GLU:OE2	1.62	0.98
3:BK:205:ARG:NH2	20:IP:52:LYS:HE3	1.77	0.98
6:GL:68:ASN:HB3	6:GL:69:PRO:HD2	1.41	0.98
1:X1:125:LEU:HG	1:X1:195:TYR:CZ	1.98	0.98
8:e2:290:ARG:NH2	5:F7:15:ARG:HH12	1.59	0.98
6:U2:97:LEU:CD2	6:U2:155:TYR:HD2	1.75	0.98
7:I5:74:TYR:HE1	15:bB:238:ARG:NE	1.61	0.98
7:BE:51:MET:CE	7:BE:137:GLN:CB	2.26	0.98
19:zL:217:ALA:HB3	19:zL:218:PRO:CD	1.92	0.98
7:LN:20:GLY:O	7:LN:24:LEU:HD13	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KO:53:LYS:NZ	6:KO:83:TYR:CZ	2.31	0.98
7:DQ:61:CYS:SG	29:DQ:203:PEB:CBD	2.51	0.98
6:WR:97:LEU:CD2	6:WR:155:TYR:HD2	1.75	0.98
5:H1:41:VAL:HG21	5:H1:98:ILE:CG2	1.93	0.98
6:A3:115:GLU:OE1	7:J3:80:ALA:HB1	1.62	0.98
12:E5:37:VAL:CG2	7:a9:167:SER:OG	2.11	0.98
13:k6:187:THR:HG21	5:H7:141:LEU:HD13	1.45	0.98
7:L8:79:MET:CE	13:kH:233:VAL:CB	2.40	0.98
18:MC:242:LYS:CG	29:SF:202:PEB:CGB	2.36	0.98
7:GD:58:GLY:HA3	29:GD:203:PEB:HMD2	1.45	0.98
18:ME:258:THR:HB	18:ME:259:PRO:HD2	1.41	0.98
7:NJ:114:LYS:CE	7:NJ:176:ILE:C	2.35	0.98
29:eR:401:PEB:HAA1	7:PR:82:CYS:CB	1.93	0.98
7:G4:76:ASN:ND2	6:J4:113:ALA:CA	2.19	0.98
7:B8:108:ARG:HG3	18:ME:266:GLY:CA	1.92	0.98
7:I8:74:TYR:O	7:I8:75:THR:OG1	1.80	0.98
18:MC:45:PHE:CE2	18:MC:248:PRO:HB2	1.97	0.98
6:LD:18:PHE:CD1	7:MD:91:ARG:HG2	1.97	0.98
13:kH:235:TYR:HB2	6:OR:68:ASN:OD1	1.64	0.98
6:hI:9:VAL:CG2	7:iI:1:MET:HE1	1.79	0.98
16:wJ:146:PRO:HD2	16:wJ:147:LYS:H	1.27	0.98
6:IL:54:GLU:OE2	6:IL:137:ARG:CZ	2.11	0.98
7:PM:61:CYS:CB	29:PM:202:PEB:CAD	2.41	0.98
6:QR:135:ARG:O	6:QR:138:LEU:HD21	1.62	0.98
3:B1:17:VAL:CG1	31:N1:1001:CYC:C4B	2.37	0.98
7:P1:3:ASP:OD1	7:P1:99:ALA:HB1	1.62	0.98
6:Q2:49:GLU:O	6:Q2:53:LYS:HG3	1.63	0.98
6:I3:139:CYS:HB3	29:I3:202:PEB:HAA2	1.00	0.98
6:J5:9:VAL:HG11	7:K5:95:TYR:CD1	1.96	0.98
12:E5:183:TYR:CE2	6:bI:83:TYR:HB3	1.97	0.98
7:I8:18:TYR:CE2	21:nP:128:GLN:OE1	2.17	0.98
1:X9:263:THR:HG22	5:D9:115:GLU:CG	1.92	0.98
3:B9:172:LYS:HB3	26:ZP:86:PRO:HD2	1.43	0.98
29:FA:201:PEB:HAC2	14:MA:174:ARG:HH11	0.83	0.98
7:PB:61:CYS:CB	29:PB:202:PEB:CAD	2.41	0.98
10:dD:129:GLU:HA	7:ED:108:ARG:NH2	1.78	0.98
7:GD:76:ASN:HD21	6:JD:113:ALA:CA	1.76	0.98
6:hF:9:VAL:HG21	7:iF:1:MET:SD	2.02	0.98
13:kH:17:TRP:HH2	13:kH:134:ILE:HD11	1.16	0.98
5:L1:36:GLN:NE2	29:L1:1002:PEB:CMB	2.27	0.98
6:J4:9:VAL:CG1	7:K4:95:TYR:CE1	2.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C9:57:GLN:HE22	4:GI:61:ASN:CG	1.70	0.98
15:bB:153:ASP:OD1	15:bB:203:PRO:HG3	1.63	0.98
6:BD:77:GLU:O	6:BD:81:LYS:HG3	1.64	0.98
4:EF:33:ARG:CZ	29:LF:1002:PEB:HBD1	1.93	0.98
6:AG:2:LYS:HZ3	30:MG:403:PUB:HAB2	1.29	0.98
4:CK:100:VAL:HG21	5:DK:19:LEU:HD12	1.43	0.98
6:SL:33:ARG:HD3	6:SL:147:GLN:HE21	1.26	0.98
16:wL:102:ALA:CA	16:wL:105:ARG:CD	2.34	0.98
19:zL:343:GLN:HE21	20:GP:61:ARG:HA	1.24	0.98
6:QM:50:ALA:O	6:QM:54:GLU:HG3	1.64	0.98
21:MP:69:GLY:CA	28:bP:41:THR:CG2	2.40	0.98
6:O2:142:ARG:NE	6:lB:76:GLN:NE2	1.98	0.98
12:E5:40:VAL:CG1	7:a9:26:ALA:HB3	1.85	0.98
13:k6:187:THR:HB	5:H7:141:LEU:HD13	1.43	0.98
1:X7:324:ASN:O	1:X7:325:LYS:HB2	1.63	0.98
7:kF:1:MET:HE3	7:kF:104:VAL:HG23	1.41	0.98
4:CI:145:GLN:NE2	29:NI:1002:PEB:CMC	2.27	0.98
7:HJ:25:GLN:HG2	7:HJ:26:ALA:N	1.75	0.98
4:MK:19:LEU:HD13	5:NK:98:ILE:CD1	1.71	0.98
7:PK:3:ASP:OD1	7:PK:99:ALA:O	1.81	0.98
6:GM:135:ARG:HH11	7:JM:149:ARG:NH1	1.60	0.98
7:NM:22:SER:HA	21:oP:147:LYS:CA	1.93	0.98
7:RM:147:THR:N	29:RM:203:PEB:O2B	1.97	0.98
6:UM:67:LYS:HE2	14:MQ:97:PHE:CZ	1.99	0.98
20:TP:107:ILE:HD11	27:3P:38:TYR:HB3	1.44	0.98
8:e2:278:LEU:HD21	6:W7:62:LYS:CE	1.93	0.98
6:Q2:37:ARG:HH12	6:Q2:98:VAL:C	1.71	0.98
6:B4:77:GLU:O	6:B4:81:LYS:HG3	1.64	0.98
7:M4:39:ASP:OD1	29:M4:202:PEB:HMD1	1.64	0.98
7:C8:72:MEN:C	7:C8:78:ARG:HD3	1.92	0.98
6:FD:33:ARG:HB3	6:FD:33:ARG:HH11	1.26	0.98
7:ID:174:ALA:HB1	6:WI:76:GLN:HG3	1.44	0.98
18:ME:304:TRP:NE1	6:gL:87:ASP:HB2	1.79	0.98
18:ME:304:TRP:CE3	18:ME:305:ALA:N	2.32	0.98
18:ME:309:PRO:HD2	18:ME:310:SER:H	1.26	0.98
3:BK:205:ARG:HH22	20:IP:52:LYS:HG3	1.28	0.98
5:HK:41:VAL:HG21	5:HK:98:ILE:CG2	1.93	0.98
16:wL:146:PRO:HD2	16:wL:147:LYS:H	1.27	0.98
6:AO:115:GLU:OE1	7:JO:80:ALA:HB1	1.62	0.98
6:AQ:38:LEU:HD22	6:AQ:98:VAL:CB	1.92	0.98
8:eR:85:PRO:HG3	7:NR:108:ARG:HA	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H9:57:ARG:CD	13:kH:198:MET:SD	2.52	0.98
18:ME:312:LEU:CD2	7:vL:68:SER:OG	2.12	0.98
29:pJ:202:PEB:HAD1	6:qJ:33:ARG:NH1	1.79	0.98
19:zJ:343:GLN:HE21	20:iP:61:ARG:HA	1.29	0.98
5:NK:33:GLU:HG3	5:NK:36:GLN:HB2	0.99	0.98
7:RM:61:CYS:SG	29:RM:203:PEB:CAD	2.52	0.98
20:RP:9:VAL:HG11	25:YP:704:GLN:HB3	1.44	0.98
6:QR:37:ARG:HH12	6:QR:98:VAL:C	1.71	0.98
5:J1:33:GLU:CD	5:J1:156:LEU:HD11	1.88	0.98
10:d4:134:TYR:OH	10:d4:252:VAL:CG2	2.11	0.98
7:G4:58:GLY:CA	29:G4:203:PEB:HMD3	1.90	0.98
6:J4:133:TYR:OH	6:J4:137:ARG:NE	1.96	0.98
7:C5:72:MEN:C	7:C5:78:ARG:HD3	1.92	0.98
12:E8:183:TYR:CB	6:bF:83:TYR:CD2	2.47	0.98
1:X9:324:ASN:O	1:X9:325:LYS:HB2	1.63	0.98
5:H9:57:ARG:HD3	13:kH:198:MET:SD	2.03	0.98
16:AB:172:VAL:HG13	7:kB:115:GLU:OE1	1.64	0.98
18:MC:258:THR:CB	18:MC:259:PRO:CD	2.33	0.98
18:MC:313:THR:O	18:MC:316:TYR:CE2	2.16	0.98
6:AG:38:LEU:HD22	6:AG:98:VAL:CB	1.92	0.98
16:wJ:102:ALA:CA	16:wJ:105:ARG:CD	2.34	0.98
20:mP:25:ARG:HD2	25:1P:42:GLN:HA	1.44	0.98
6:QR:139:CYS:HB2	29:QR:202:PEB:HBA2	1.01	0.98
6:UR:138:LEU:CB	29:UR:202:PEB:HMD3	1.94	0.98
13:k6:17:TRP:HH2	13:k6:134:ILE:HD11	1.16	0.97
5:L9:18:PHE:CD1	20:vP:67:SER:CB	2.47	0.97
7:gB:61:CYS:CB	29:gB:203:PEB:HAD1	1.94	0.97
18:ME:200:ARG:CD	18:ME:237:PHE:CE1	2.40	0.97
18:ME:312:LEU:HD12	18:ME:313:THR:HG23	1.44	0.97
6:hI:9:VAL:CG2	7:iI:1:MET:HE2	1.88	0.97
4:MK:111:LEU:HD23	31:MK:1001:CYC:HAB2	1.44	0.97
8:eR:80:GLU:CD	7:NR:115:GLU:HG2	1.86	0.97
6:W2:142:ARG:CG	29:W2:202:PEB:HBA1	1.80	0.97
29:K4:202:PEB:CBD	6:L4:33:ARG:HH12	1.67	0.97
4:C7:57:GLN:HE22	4:GF:61:ASN:CG	1.70	0.97
7:LA:20:GLY:O	7:LA:24:LEU:HD13	1.63	0.97
16:AB:61:ASP:OD2	16:AB:146:PRO:CD	2.12	0.97
7:VB:85:ASP:OD2	29:VB:201:PEB:CHA	2.12	0.97
7:HG:137:GLN:NE2	29:HG:203:PEB:HHA1	1.79	0.97
13:kH:236:GLN:HE22	6:OR:65:TYR:HB2	1.24	0.97
7:cI:147:THR:OG1	29:cI:202:PEB:O1B	1.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:112:VAL:HG12	4:EK:113:ALA:N	1.76	0.97
6:fK:5:ILE:HB	7:gK:3:ASP:OD2	1.63	0.97
6:AQ:2:LYS:HZ1	30:MQ:405:PUB:CBB	1.77	0.97
7:LQ:133:ILE:CG1	29:LQ:202:PEB:CBC	2.28	0.97
6:QR:142:ARG:HD3	29:QR:202:PEB:HBA1	1.42	0.97
7:I5:7:ARG:NH2	28:bP:88:LEU:HD21	1.78	0.97
7:I5:14:ALA:CB	21:LP:124:GLY:H	1.77	0.97
12:E5:188:ALA:HB1	6:bI:64:ALA:CB	1.92	0.97
7:B8:104:VAL:HA	18:ME:265:LYS:O	1.64	0.97
1:X9:264:GLU:HA	5:D9:115:GLU:OE1	1.64	0.97
29:Q9:202:PEB:HBC2	5:FK:21:ASN:HD22	1.24	0.97
15:bB:333:ARG:HB2	15:bB:333:ARG:NH2	1.79	0.97
15:bB:349:LYS:HE2	20:KP:68:PRO:HD2	1.44	0.97
10:dD:283:ARG:CG	7:TI:148:GLU:CB	2.42	0.97
10:dD:283:ARG:HG3	7:TI:148:GLU:CD	1.87	0.97
4:EI:33:ARG:CZ	29:LI:1002:PEB:HBD1	1.93	0.97
16:xJ:102:ALA:CA	16:xJ:105:ARG:CD	2.34	0.97
6:ZK:52:VAL:HG13	6:ZK:86:VAL:HG12	1.43	0.97
6:SL:51:VAL:HG23	6:SL:52:VAL:N	1.79	0.97
16:AM:61:ASP:OD2	16:AM:146:PRO:CD	2.12	0.97
8:e2:116:GLU:HB2	6:U2:15:ALA:O	1.64	0.97
6:C3:42:GLU:CD	6:C3:42:GLU:O	2.07	0.97
13:k6:198:MET:SD	5:H7:57:ARG:CD	2.52	0.97
6:qJ:33:ARG:HH22	6:qJ:151:GLU:CD	1.72	0.97
6:sJ:14:ALA:HB1	16:xJ:86:CYS:O	1.63	0.97
5:JK:33:GLU:CD	5:JK:156:LEU:HD11	1.88	0.97
7:I5:74:TYR:O	7:I5:75:THR:OG1	1.80	0.97
15:bB:341:ALA:HB3	15:bB:349:LYS:CD	1.93	0.97
6:IB:54:GLU:OE1	29:IB:202:PEB:C3C	1.96	0.97
18:MC:236:ASP:O	29:SF:202:PEB:HMB2	1.60	0.97
18:ME:242:LYS:HB3	29:SI:202:PEB:CGB	1.95	0.97
3:BF:221:PHE:HE1	27:3P:81:LEU:HD22	0.98	0.97
4:CF:145:GLN:NE2	29:NF:1002:PEB:CMC	2.27	0.97
6:OI:6:THR:HG23	7:PI:1:MET:CE	1.94	0.97
6:GJ:72:ALA:CB	29:GJ:201:PEB:HMA3	1.69	0.97
5:LK:36:GLN:NE2	29:LK:1002:PEB:CMB	2.27	0.97
6:ML:140:VAL:CG2	6:ML:146:ALA:HA	1.95	0.97
19:zL:363:ARG:CD	21:LP:62:TYR:HB3	1.94	0.97
6:KO:54:GLU:OE2	29:KO:202:PEB:C3C	2.11	0.97
6:KO:56:GLY:HA3	6:KO:83:TYR:HE1	1.23	0.97
7:LQ:113:LEU:HB2	14:MQ:236:TYR:CZ	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eR:77:PHE:CD1	8:eR:84:LYS:NZ	2.27	0.97
7:C4:50:CYS:SG	29:C4:203:PEB:CAA	2.51	0.97
7:B5:107:ASP:OD1	18:MC:264:LEU:CD1	2.12	0.97
13:k6:198:MET:SD	5:H7:57:ARG:HD3	2.03	0.97
1:X7:264:GLU:HA	5:D7:115:GLU:OE1	1.64	0.97
4:C7:57:GLN:NE2	4:GF:61:ASN:CG	2.22	0.97
7:B8:91:ARG:NH2	18:ME:293:MET:HA	1.67	0.97
6:U9:67:LYS:HZ2	13:kH:259:SER:CA	1.68	0.97
7:RB:147:THR:N	29:RB:203:PEB:O2B	1.97	0.97
18:MC:241:ALA:CB	6:SF:133:TYR:HH	1.72	0.97
7:GD:75:THR:CB	29:JD:201:PEB:HBD2	1.93	0.97
1:XK:125:LEU:HG	1:XK:195:TYR:CZ	1.98	0.97
8:eR:108:HIS:CD2	7:PR:84:ARG:CD	2.47	0.97
6:QR:16:GLY:HA2	7:RR:91:ARG:NH1	1.79	0.97
7:L5:79:MET:HE3	13:k6:233:VAL:HG23	1.44	0.97
13:k6:192:VAL:CG2	4:I7:134:GLN:HG3	1.95	0.97
29:L8:201:PEB:O2C	13:kH:224:ILE:HD13	1.65	0.97
6:IA:37:ARG:CD	6:IA:97:LEU:O	2.11	0.97
18:ME:232:MET:CE	29:SI:202:PEB:CAB	2.05	0.97
7:FG:58:GLY:HA2	29:FG:203:PEB:C3D	1.95	0.97
6:CO:106:ASP:OD1	6:CO:107:GLU:N	1.95	0.97
6:QR:49:GLU:O	6:QR:53:LYS:HG3	1.63	0.97
5:N1:33:GLU:HG3	5:N1:36:GLN:HB2	1.00	0.97
6:J5:9:VAL:HG21	7:K5:95:TYR:HE1	1.25	0.97
4:C9:57:GLN:NE2	4:GI:61:ASN:CG	2.22	0.97
6:EA:38:LEU:O	6:EA:42:GLU:OE1	1.83	0.97
6:KA:38:LEU:O	6:KA:42:GLU:OE1	1.83	0.97
18:MC:232:MET:SD	6:SF:142:ARG:CZ	2.53	0.97
6:MJ:33:ARG:HB3	6:MJ:33:ARG:NH2	1.79	0.97
6:jM:147:GLN:HE22	29:mM:202:PEB:CMC	1.77	0.97
6:IM:53:LYS:HE2	6:IM:83:TYR:CE2	2.00	0.97
7:HQ:141:PHE:CE2	29:HQ:203:PEB:CHA	2.47	0.97
8:eR:75:MET:HE1	29:NR:201:PEB:CBD	1.95	0.97
4:E9:89:GLY:HA3	8:eR:297:GLY:HA3	1.46	0.97
7:PB:125:ASN:ND2	7:mB:70:GLY:O	1.98	0.97
18:MC:242:LYS:HD2	29:SF:202:PEB:CBB	1.95	0.97
18:MC:312:LEU:HD12	18:MC:313:THR:HG23	1.45	0.97
7:GD:76:ASN:HD21	6:JD:113:ALA:HB2	0.91	0.97
7:LE:7:ARG:HD3	18:ME:258:THR:CG2	1.94	0.97
18:ME:312:LEU:CD2	7:vL:68:SER:CA	2.42	0.97
15:bM:153:ASP:OD1	15:bM:203:PRO:HG3	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RM:57:SER:C	7:RM:61:CYS:HG	1.73	0.97
6:EO:106:ASP:OD1	6:EO:107:GLU:N	1.96	0.97
29:W9:202:PEB:HMA3	8:eR:249:TYR:CD1	2.00	0.97
6:EB:54:GLU:OE1	29:EB:202:PEB:C3C	2.12	0.97
18:ME:304:TRP:HZ2	6:gL:87:ASP:CG	1.67	0.97
5:HF:39:ASP:OD1	29:HF:1002:PEB:HMD1	1.65	0.97
6:OF:6:THR:HG23	7:PF:1:MET:CE	1.94	0.97
6:AG:2:LYS:NZ	30:MG:403:PUB:HAB2	1.80	0.97
7:LG:137:GLN:HE22	29:LG:203:PEB:HHA1	1.30	0.97
6:SJ:33:ARG:NH1	6:SJ:147:GLN:HG2	1.38	0.97
16:xJ:146:PRO:HD2	16:xJ:147:LYS:H	1.27	0.97
5:NK:33:GLU:HG2	5:NK:36:GLN:HB2	1.47	0.97
6:CO:42:GLU:O	6:CO:42:GLU:CD	2.07	0.97
6:Q2:16:GLY:HA2	7:R2:91:ARG:NH1	1.79	0.96
10:d4:270:ARG:HD3	7:M4:78:ARG:NH2	1.79	0.96
7:M4:124:THR:N	6:UF:69:PRO:CG	2.14	0.96
7:GD:58:GLY:CA	29:GD:203:PEB:HMD2	1.95	0.96
18:ME:303:PHE:HE1	6:gL:53:LYS:CG	1.78	0.96
6:IG:2:LYS:NZ	14:MG:254:VAL:HG13	1.80	0.96
6:qJ:33:ARG:HH11	6:qJ:147:GLN:HE22	1.07	0.96
4:IK:33:ARG:NH2	4:IK:145:GLN:OE1	1.96	0.96
6:UM:43:LYS:HD3	14:MQ:115:TYR:CE2	1.97	0.96
6:QR:139:CYS:HB3	29:QR:202:PEB:CBA	1.82	0.96
6:WR:92:LEU:HB3	6:WR:105:LEU:HD23	1.47	0.96
3:B1:205:ARG:NH2	20:JP:52:LYS:CE	2.28	0.96
12:E8:162:ASN:HB3	29:kF:203:PEB:NC	1.80	0.96
7:BA:20:GLY:O	7:BA:24:LEU:HD13	1.65	0.96
7:DC:84:ARG:HH12	18:MC:44:PRO:HD3	0.82	0.96
13:kH:4:LYS:HB3	13:kH:7:GLU:CD	1.90	0.96
15:bM:341:ALA:HB1	20:mP:68:PRO:HD2	1.47	0.96
21:FP:60:LEU:CD1	21:FP:72:MET:HE1	1.93	0.96
3:B1:205:ARG:CZ	20:JP:52:LYS:CE	2.38	0.96
6:W2:142:ARG:CD	29:W2:202:PEB:HHA1	1.94	0.96
7:I5:91:ARG:NH2	28:bP:118:LEU:O	1.73	0.96
7:RB:61:CYS:SG	29:RB:203:PEB:CAD	2.52	0.96
6:IE:14:ALA:HB1	18:ME:51:PRO:CD	1.95	0.96
6:IO:139:CYS:SG	29:IO:202:PEB:HAA2	1.94	0.96
7:BQ:140:ALA:HB3	29:BQ:203:PEB:HAB2	1.44	0.96
5:H1:35:ASN:O	5:H1:39:ASP:OD1	1.83	0.96
8:e2:291:ILE:HD13	7:T2:170:ASP:HA	1.47	0.96
7:B8:91:ARG:HH22	18:ME:293:MET:CA	1.68	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:14:ALA:CB	21:mP:124:GLY:H	1.78	0.96
7:L8:107:ASP:OD1	4:I9:61:ASN:CB	2.12	0.96
12:E8:182:ASN:HD22	6:bF:80:ASN:HD21	1.06	0.96
6:U9:69:PRO:HG2	7:TR:123:PRO:N	1.80	0.96
7:RB:61:CYS:HB2	29:RB:203:PEB:CAD	1.88	0.96
6:UB:53:LYS:HG3	14:MG:100:THR:HB	1.44	0.96
7:MD:39:ASP:OD1	29:MD:202:PEB:HMD1	1.64	0.96
6:EG:1:MET:CB	14:MG:196:ASN:HD21	1.78	0.96
5:HI:39:ASP:OD1	29:HI:1002:PEB:HMD1	1.65	0.96
7:HQ:140:ALA:HB2	29:HQ:203:PEB:HAB2	1.41	0.96
7:NR:77:ARG:HH12	29:NR:201:PEB:CGB	1.64	0.96
6:f1:5:ILE:HB	7:g1:3:ASP:OD2	1.63	0.96
5:H9:141:LEU:CD1	13:kH:187:THR:CB	2.44	0.96
6:lB:53:LYS:HE2	6:lB:83:TYR:CE2	2.00	0.96
10:dD:217:SER:HG	29:ID:201:PEB:CAC	1.65	0.96
5:JF:65:GLN:HG3	20:rP:68:PRO:HD3	1.47	0.96
6:WJ:73:GLY:HA2	6:WJ:78:LYS:CB	1.95	0.96
6:YJ:33:ARG:HG2	6:YJ:33:ARG:HH21	1.31	0.96
6:QL:74:GLU:N	6:QL:78:LYS:HD3	1.77	0.96
7:VM:85:ASP:OD2	29:VM:201:PEB:CHA	2.12	0.96
21:UP:72:MET:HA	21:UP:77:ARG:HB3	1.46	0.96
5:F1:135:LYS:O	5:F1:139:VAL:HG23	1.64	0.96
7:P2:114:LYS:NZ	6:W7:53:LYS:CB	2.28	0.96
6:H4:33:ARG:HB3	6:H4:33:ARG:HH11	1.29	0.96
5:H7:150:ILE:HG21	7:ZB:159:THR:HG21	1.20	0.96
12:E8:209:ARG:HG2	6:lF:70:GLY:HA2	1.09	0.96
10:dD:129:GLU:HA	7:ED:108:ARG:HH22	1.29	0.96
7:cF:1:MET:CE	7:cF:103:SER:O	2.03	0.96
13:kH:283:LYS:O	13:kH:284:LEU:HD22	1.66	0.96
3:BI:227:GLU:OE1	20:vP:60:GLN:NE2	1.87	0.96
7:HL:25:GLN:HG2	7:HL:26:ALA:N	1.75	0.96
7:HQ:141:PHE:CE1	29:HQ:203:PEB:HMA3	2.01	0.96
7:G4:171:ARG:HH11	7:G4:171:ARG:HB2	1.31	0.96
4:I7:93:ARG:NH2	5:L7:74:TYR:OH	1.99	0.96
7:k7:150:LYS:CE	7:G8:149:ARG:NH2	2.27	0.96
6:QB:50:ALA:O	6:QB:54:GLU:HG3	1.64	0.96
7:MD:171:ARG:HB2	7:MD:171:ARG:HH11	1.31	0.96
18:ME:242:LYS:HB2	29:SI:202:PEB:CGB	1.93	0.96
5:JF:63:GLN:HG2	20:rP:73:TYR:CZ	2.01	0.96
1:XK:194:GLU:OE2	1:XK:208:ARG:NH2	1.98	0.96
5:NK:33:GLU:CG	5:NK:36:GLN:CB	2.35	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NR:79:MET:O	7:NR:83:LEU:HD12	1.66	0.96
6:QR:92:LEU:HB3	6:QR:105:LEU:HD23	1.47	0.96
6:M2:139:CYS:HB2	29:M2:202:PEB:HBA2	1.44	0.96
7:I8:72:MEN:O	7:I8:78:ARG:CD	2.14	0.96
6:j9:99:VAL:CG2	7:k9:9:VAL:HG21	1.95	0.96
5:DI:39:ASP:OD1	29:DI:1002:PEB:HMD1	1.66	0.96
5:FK:135:LYS:O	5:FK:139:VAL:HG23	1.64	0.96
4:KK:32:GLN:HE21	4:KK:32:GLN:HA	1.29	0.96
16:xL:146:PRO:HD2	16:xL:147:LYS:H	1.27	0.96
7:gM:61:CYS:CB	29:gM:203:PEB:HAD1	1.94	0.96
7:FQ:141:PHE:CZ	29:FQ:203:PEB:CMA	2.38	0.96
8:eR:78:LEU:CD1	7:NR:116:THR:OG1	2.13	0.96
8:eR:85:PRO:CB	7:NR:107:ASP:O	2.13	0.96
5:J1:22:THR:HG21	15:bB:331:ALA:HB3	1.47	0.96
3:B9:224:MET:O	3:B9:228:MET:HE1	1.63	0.96
7:RB:57:SER:C	7:RB:61:CYS:HG	1.72	0.96
18:ME:229:GLU:HG2	18:ME:242:LYS:CE	1.93	0.96
5:JF:39:ASP:OD1	29:JF:1002:PEB:HMD1	1.65	0.96
7:HL:72:MEN:HB2	29:zL:501:PEB:OA	1.66	0.96
7:iM:114:LYS:HE3	7:iM:177:SER:O	1.66	0.96
21:oP:60:LEU:HD22	21:oP:65:ILE:CD1	1.96	0.96
7:D3:39:ASP:N	29:D3:202:PEB:HMD1	1.78	0.96
7:M4:171:ARG:HB2	7:M4:171:ARG:HH11	1.31	0.96
7:L8:107:ASP:OD1	4:I9:61:ASN:OD1	1.83	0.96
5:H9:141:LEU:HD13	13:kH:187:THR:HG21	1.45	0.96
4:I9:134:GLN:HG3	13:kH:192:VAL:CG2	1.95	0.96
7:CD:171:ARG:HB2	7:CD:171:ARG:HH11	1.31	0.96
18:ME:285:TYR:O	5:DI:18:PHE:CD2	2.19	0.96
18:ME:303:PHE:HE1	6:gL:53:LYS:CB	1.79	0.96
5:LF:39:ASP:OD1	29:LF:1002:PEB:HMD1	1.65	0.96
19:zJ:363:ARG:CA	21:nP:62:TYR:CD2	2.48	0.96
6:O1:52:VAL:HG13	6:O1:86:VAL:HG12	1.48	0.95
6:S9:137:ARG:HH12	13:kH:118:ARG:HG3	1.28	0.95
6:LD:33:ARG:HG3	6:LD:33:ARG:HH21	1.30	0.95
7:DE:51:MET:CE	7:DE:137:GLN:CB	2.26	0.95
7:FG:61:CYS:HB3	29:FG:203:PEB:HBD2	1.45	0.95
5:FK:35:ASN:O	5:FK:39:ASP:OD1	1.84	0.95
6:SL:67:LYS:NZ	26:ZP:121:VAL:CG1	2.28	0.95
4:K1:19:LEU:HD13	5:L1:98:ILE:HD12	1.47	0.95
4:M1:93:ARG:HD3	5:N1:18:PHE:CD1	2.01	0.95
6:M2:81:LYS:HE3	29:M2:201:PEB:C3B	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:171:ARG:HB2	7:C4:171:ARG:HH11	1.31	0.95
7:I5:79:MET:CE	15:bB:229:LEU:O	2.13	0.95
12:E5:162:ASN:HD21	29:kI:203:PEB:C2B	1.79	0.95
13:k6:261:MET:SD	6:U7:53:LYS:NZ	2.39	0.95
12:E8:209:ARG:CD	6:lF:70:GLY:HA2	1.96	0.95
4:E9:79:ILE:HD11	13:kH:220:GLU:O	1.64	0.95
18:MC:312:LEU:CD2	7:vJ:68:SER:CA	2.41	0.95
7:GD:76:ASN:ND2	6:JD:113:ALA:CB	2.04	0.95
5:LI:39:ASP:OD1	29:LI:1002:PEB:HMD1	1.65	0.95
6:SK:52:VAL:HG13	6:SK:86:VAL:HG12	1.48	0.95
6:KN:38:LEU:O	6:KN:42:GLU:OE1	1.83	0.95
7:DO:39:ASP:CG	29:DO:202:PEB:HHC1	1.91	0.95
7:N2:79:MET:O	7:N2:83:LEU:HD12	1.66	0.95
7:a7:167:SER:OG	12:E8:37:VAL:CG2	2.13	0.95
4:I9:134:GLN:HG3	13:kH:192:VAL:HG21	1.46	0.95
7:FB:85:ASP:OD1	29:FB:201:PEB:H1D1	1.01	0.95
6:GB:135:ARG:HH11	7:JB:149:ARG:NH1	1.60	0.95
6:DD:133:TYR:CE2	6:DD:137:ARG:HD3	2.01	0.95
3:BF:204:ARG:NE	31:rP:1001:CYC:O1D	1.98	0.95
5:JI:39:ASP:OD1	29:JI:1002:PEB:HMD1	1.65	0.95
7:PM:125:ASN:ND2	7:mM:70:GLY:O	1.98	0.95
6:EN:38:LEU:O	6:EN:42:GLU:OE1	1.83	0.95
21:kP:110:ASN:HD21	25:1P:422:LYS:HB3	1.31	0.95
7:N3:66:LEU:CD1	7:VL:155:ALA:HB1	1.93	0.95
10:d4:226:ARG:HG2	10:d4:226:ARG:HH11	1.28	0.95
10:dD:280:SER:OG	6:WI:69:PRO:C	2.10	0.95
7:KD:61:CYS:SG	29:KD:203:PEB:HAD1	2.05	0.95
5:DF:39:ASP:OD1	29:DF:1002:PEB:HMD1	1.66	0.95
7:cF:147:THR:OG1	29:cF:202:PEB:O1B	1.82	0.95
15:bM:335:ILE:HG21	15:bM:340:GLU:CG	1.95	0.95
7:BN:20:GLY:O	7:BN:24:LEU:HD13	1.65	0.95
20:KP:25:ARG:HD2	25:YP:42:GLN:HA	1.46	0.95
8:eR:153:GLN:HE22	7:XR:108:ARG:HH12	1.07	0.95
8:e2:268:PHE:HB2	7:P2:107:ASP:OD2	1.64	0.95
6:H4:114:ARG:CD	6:J4:118:ARG:HH11	1.77	0.95
6:J5:9:VAL:HG21	7:K5:95:TYR:CE1	2.01	0.95
12:E5:162:ASN:HB3	29:kI:203:PEB:NC	1.80	0.95
13:k6:4:LYS:HB3	13:k6:7:GLU:CD	1.90	0.95
7:PB:61:CYS:CB	29:PB:202:PEB:HBD2	1.97	0.95
7:RB:58:GLY:C	7:RB:61:CYS:SG	2.49	0.95
18:MC:313:THR:O	18:MC:316:TYR:CZ	2.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:54:GLU:HG2	6:AL:133:TYR:HH	1.27	0.95
6:GL:98:VAL:HG21	7:HL:19:VAL:HG21	1.47	0.95
20:gP:13:ALA:HB3	25:1P:507:LYS:HD3	1.44	0.95
6:QR:47:ASN:ND2	29:QR:202:PEB:OD	1.99	0.95
3:B7:172:LYS:CB	26:2P:86:PRO:CD	2.44	0.95
5:H9:141:LEU:HD13	13:kH:187:THR:HB	1.43	0.95
17:BB:182:GLU:OE2	29:BB:301:PEB:HMD3	1.66	0.95
18:ME:308:ILE:HD13	7:vL:64:PRO:HD2	1.48	0.95
5:JI:65:GLN:CG	20:PP:68:PRO:CD	2.35	0.95
5:HK:35:ASN:O	5:HK:39:ASP:OD1	1.83	0.95
7:PM:61:CYS:CB	29:PM:202:PEB:HBD2	1.97	0.95
29:FQ:201:PEB:HMC1	14:MQ:181:TYR:CE2	1.87	0.95
6:b1:52:VAL:HG13	6:b1:86:VAL:HG12	1.48	0.95
7:P2:114:LYS:HZ1	6:W7:53:LYS:CG	1.59	0.95
7:P2:174:ALA:HB1	6:W7:76:GLN:HE21	1.18	0.95
6:S2:81:LYS:CD	29:S2:201:PEB:HAB2	1.95	0.95
7:T2:123:PRO:HA	6:U7:69:PRO:HG2	1.43	0.95
7:X2:108:ARG:HG3	7:X2:108:ARG:HH11	1.29	0.95
7:I5:72:MEN:O	7:I5:78:ARG:CD	2.14	0.95
12:E5:162:ASN:HB3	29:kl:203:PEB:HNC	1.29	0.95
3:B9:209:GLN:HE21	21:sP:128:GLN:HE22	1.04	0.95
3:B9:227:GLU:CG	20:PP:52:LYS:HE2	1.96	0.95
29:Q9:202:PEB:HMA3	7:PK:147:THR:HG21	1.49	0.95
7:GD:171:ARG:HB2	7:GD:171:ARG:HH11	1.31	0.95
6:JD:9:VAL:HG11	7:KD:95:TYR:CD1	2.00	0.95
6:JD:133:TYR:CE1	6:JD:137:ARG:CD	2.44	0.95
29:LE:201:PEB:O1B	18:ME:219:SER:O	1.82	0.95
18:ME:232:MET:SD	18:ME:236:ASP:C	2.49	0.95
29:LG:201:PEB:HHC2	14:MG:236:TYR:CE2	2.01	0.95
29:tJ:201:PEB:HMC1	16:xJ:220:TYR:HB2	1.46	0.95
3:BK:227:GLU:HG3	20:cP:52:LYS:HE2	1.48	0.95
4:CK:113:ALA:CB	5:FK:77:ARG:HB2	1.96	0.95
5:NK:40:ILE:CG1	29:NK:1002:PEB:HBA1	1.97	0.95
13:k6:187:THR:CB	5:H7:141:LEU:CD1	2.44	0.95
7:B8:104:VAL:HG23	18:ME:265:LYS:C	1.91	0.95
7:I8:2:LEU:HD23	28:4P:88:LEU:HD11	0.96	0.95
6:J8:9:VAL:HG21	7:K8:95:TYR:CE1	2.01	0.95
4:E9:122:PHE:CE2	31:E9:1001:CYC:CAA	2.49	0.95
6:KA:131:ILE:HD13	6:KA:159:LEU:CD2	1.97	0.95
6:GB:138:LEU:CD1	29:GB:202:PEB:HMD3	1.96	0.95
7:ED:171:ARG:HB2	7:ED:171:ARG:HH11	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GD:136:ALA:HB2	29:GD:203:PEB:CGC	1.97	0.95
7:HG:54:ASP:HB2	29:HG:203:PEB:CAA	1.96	0.95
13:kH:134:ILE:CG1	13:kH:143:ALA:HB3	1.97	0.95
6:OK:52:VAL:HG13	6:OK:86:VAL:HG12	1.48	0.95
17:BM:181:THR:CB	29:BM:301:PEB:CBA	2.17	0.95
6:GM:138:LEU:CD1	29:GM:202:PEB:HMD3	1.97	0.95
7:RM:58:GLY:C	7:RM:61:CYS:SG	2.49	0.95
6:M2:138:LEU:CD1	29:M2:202:PEB:HMD3	1.96	0.95
6:D4:133:TYR:CE2	6:D4:137:ARG:HD3	2.01	0.95
7:G4:147:THR:HG23	29:G4:203:PEB:O1B	1.66	0.95
6:H4:113:ALA:CA	7:M4:76:ASN:HD21	1.80	0.95
6:H4:137:ARG:NH2	29:H4:202:PEB:HNA	1.64	0.95
12:E5:209:ARG:CG	6:II:70:GLY:CA	2.34	0.95
6:j7:99:VAL:CG2	7:k7:9:VAL:HG21	1.95	0.95
5:H9:150:ILE:HG21	7:ZM:159:THR:HG21	1.20	0.95
5:L9:18:PHE:CD1	20:vP:67:SER:HB3	2.02	0.95
6:U9:69:PRO:CB	7:TR:123:PRO:HA	1.94	0.95
7:JC:51:MET:CE	7:JC:137:GLN:CB	2.26	0.95
7:LE:7:ARG:CD	18:ME:258:THR:HG22	1.96	0.95
6:sJ:10:SER:HB2	16:xJ:82:TYR:H	1.29	0.95
4:CK:4:PRO:HG2	4:CK:30:ARG:HD3	1.49	0.95
6:E3:42:GLU:CD	6:E3:42:GLU:O	2.10	0.95
7:M4:54:ASP:OD2	29:M4:203:PEB:CHA	2.13	0.95
7:B5:91:ARG:NH2	18:MC:293:MET:HA	1.81	0.95
3:B7:205:ARG:HH12	21:QP:62:TYR:HB2	1.30	0.95
6:W9:53:LYS:CB	7:PR:114:LYS:HZ1	1.79	0.95
7:LE:116:THR:HB	18:ME:213:THR:HB	1.47	0.95
6:AG:2:LYS:HZ1	30:MG:403:PUB:HAB1	1.24	0.95
7:LG:112:GLY:N	14:MG:232:LYS:NZ	2.15	0.95
4:CI:145:GLN:HE21	29:NI:1002:PEB:HMC3	0.90	0.95
6:IJ:72:ALA:HB3	29:IJ:201:PEB:HMA2	1.49	0.95
6:sJ:14:ALA:O	16:xJ:87:THR:HA	1.67	0.95
3:BK:203:ILE:CG2	20:IP:82:LEU:HD11	1.96	0.95
5:FK:57:ARG:HG2	5:FK:57:ARG:HH11	1.32	0.95
7:RL:113:LEU:CD2	7:RL:176:ILE:HG22	1.97	0.95
6:MR:81:LYS:HE3	29:MR:201:PEB:C3B	1.96	0.95
5:F1:35:ASN:O	5:F1:39:ASP:OD1	1.84	0.94
6:M2:139:CYS:HB2	29:M2:202:PEB:CBA	1.97	0.94
7:E4:59:MET:CE	7:E4:130:ALA:CA	2.15	0.94
6:F4:33:ARG:NH1	29:I4:202:PEB:HBD1	1.80	0.94
7:I4:171:ARG:HH11	7:I4:171:ARG:HB2	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E8:183:TYR:CE2	6:bF:83:TYR:HB3	2.01	0.94
10:dD:283:ARG:HG2	7:TI:148:GLU:HB3	1.45	0.94
4:KK:19:LEU:HD13	5:LK:98:ILE:HD12	1.47	0.94
16:wL:179:ALA:N	16:xL:37:THR:HG21	1.80	0.94
7:FQ:58:GLY:N	29:FQ:203:PEB:HMD2	1.80	0.94
1:X1:194:GLU:OE2	1:X1:208:ARG:NH2	1.98	0.94
5:N1:33:GLU:CG	5:N1:36:GLN:CB	2.35	0.94
6:S1:52:VAL:HG13	6:S1:86:VAL:HG12	1.48	0.94
7:V2:133:ILE:O	7:V2:137:GLN:HG2	1.67	0.94
12:E5:182:ASN:HD22	6:bI:80:ASN:HD21	1.02	0.94
12:E5:183:TYR:HB2	6:bI:83:TYR:HE2	1.24	0.94
3:B7:209:GLN:HE22	21:QP:128:GLN:HE21	1.15	0.94
5:H7:77:ARG:HH22	31:H7:1001:CYC:HBD1	1.31	0.94
7:I8:79:MET:CG	15:bM:229:LEU:HG	1.97	0.94
12:E8:188:ALA:HB2	6:bF:64:ALA:CB	1.95	0.94
3:B9:228:MET:HA	20:PP:56:GLN:OE1	1.68	0.94
6:W9:53:LYS:HG2	7:PR:114:LYS:HZ2	0.78	0.94
15:bB:376:GLU:HB2	21:MP:64:ASP:OD2	1.67	0.94
15:bB:376:GLU:N	21:MP:64:ASP:OD2	1.99	0.94
10:dD:308:ARG:HA	10:dD:311:GLN:HE21	1.32	0.94
18:ME:232:MET:HG3	18:ME:236:ASP:HB2	1.49	0.94
3:BF:217:ASP:CG	27:3P:59:LYS:HB3	1.91	0.94
6:CG:2:LYS:HZ3	14:MG:139:GLY:CA	1.79	0.94
29:LG:201:PEB:HHC2	14:MG:236:TYR:HE2	1.30	0.94
7:ZJ:108:ARG:NH1	16:xJ:41:ASN:CG	2.25	0.94
6:cJ:138:LEU:HD12	29:cJ:202:PEB:CMD	1.96	0.94
6:dK:52:VAL:HG13	6:dK:86:VAL:HG12	1.48	0.94
6:GL:73:GLY:HA2	6:GL:78:LYS:CB	1.96	0.94
6:QL:73:GLY:HA2	6:QL:78:LYS:HD3	1.48	0.94
6:WL:73:GLY:HA2	6:WL:78:LYS:CB	1.95	0.94
6:cL:66:LEU:HD22	6:cL:72:ALA:HB3	1.48	0.94
6:KM:21:ASN:HD21	6:MM:101:GLY:HA2	1.31	0.94
3:B9:172:LYS:HB3	26:ZP:86:PRO:HD3	1.47	0.94
6:U9:53:LYS:NZ	13:kH:261:MET:SD	2.39	0.94
15:bB:341:ALA:HB1	15:bB:349:LYS:HE2	1.47	0.94
6:JD:9:VAL:CG1	7:KD:95:TYR:CE1	2.44	0.94
7:LG:136:ALA:CB	29:LG:203:PEB:CGC	2.46	0.94
6:cL:138:LEU:HD12	29:cL:202:PEB:CMD	1.96	0.94
16:wL:186:LYS:NZ	16:xL:42:SER:OG	2.00	0.94
8:eR:235:SER:HG	29:eR:401:PEB:HAD1	1.25	0.94
6:f1:52:VAL:HG13	6:f1:86:VAL:HG12	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e2:118:ARG:CZ	7:V2:87:GLU:OE2	2.15	0.94
8:e2:148:LEU:HD11	7:X2:108:ARG:HH21	0.78	0.94
6:O2:65:TYR:HB2	13:k6:236:GLN:HE22	1.14	0.94
7:C4:141:PHE:HZ	29:C4:203:PEB:CMA	1.79	0.94
4:E7:122:PHE:CE2	31:E7:1001:CYC:CAA	2.49	0.94
18:MC:241:ALA:HB2	6:SF:133:TYR:HH	0.84	0.94
6:BD:33:ARG:NH1	6:BD:151:GLU:OE1	2.00	0.94
6:oJ:17:ARG:O	7:pJ:95:TYR:OH	1.85	0.94
7:nL:91:ARG:NH2	16:xL:203:VAL:O	2.00	0.94
6:K3:56:GLY:HA3	6:K3:83:TYR:HE1	1.23	0.94
7:G4:75:THR:HG22	29:J4:201:PEB:HAD1	1.45	0.94
7:M4:124:THR:OG1	6:UF:69:PRO:CG	2.15	0.94
7:I5:77:ARG:CZ	29:I5:201:PEB:O2B	2.16	0.94
7:I8:14:ALA:HA	21:nP:124:GLY:CA	1.97	0.94
10:dD:91:GLU:OE2	6:DD:114:ARG:NH2	1.99	0.94
7:NJ:114:LYS:CE	7:NJ:177:SER:O	2.02	0.94
16:wL:176:TYR:HA	16:xL:39:LEU:CD1	1.97	0.94
16:AM:172:VAL:HG13	7:kM:115:GLU:OE1	1.67	0.94
6:UM:142:ARG:NH1	14:MQ:111:ARG:NH2	2.16	0.94
21:IP:110:ASN:HD21	25:YP:422:LYS:HB3	1.31	0.94
6:OR:142:ARG:NH2	29:OR:202:PEB:C2B	2.29	0.94
7:VR:134:MET:HA	7:VR:137:GLN:OE1	1.68	0.94
6:H4:113:ALA:HB2	7:M4:76:ASN:ND2	1.81	0.94
6:QF:33:ARG:CZ	6:QF:151:GLU:OE2	2.14	0.94
6:ML:147:GLN:OE1	29:PL:202:PEB:HMC2	1.66	0.94
17:BM:182:GLU:OE2	29:BM:301:PEB:HMD3	1.66	0.94
6:SR:85:ASP:CG	29:SR:201:PEB:H1D1	1.92	0.94
7:V2:134:MET:HA	7:V2:137:GLN:OE1	1.68	0.94
7:I4:174:ALA:HB3	6:WF:76:GLN:HG2	1.48	0.94
12:E8:182:ASN:CG	6:bF:80:ASN:HD21	1.76	0.94
7:iB:114:LYS:HE3	7:iB:177:SER:O	1.66	0.94
6:IG:2:LYS:CE	14:MG:254:VAL:HG13	1.97	0.94
5:JI:63:GLN:CG	20:PP:73:TYR:OH	2.13	0.94
6:AJ:138:LEU:HB2	29:AJ:202:PEB:HMD1	1.47	0.94
6:bK:52:VAL:HG13	6:bK:86:VAL:HG12	1.48	0.94
6:jK:52:VAL:HG13	6:jK:86:VAL:HG12	1.48	0.94
6:KN:131:ILE:HD13	6:KN:159:LEU:CD2	1.97	0.94
3:B1:227:GLU:HG3	20:AP:52:LYS:HE2	1.47	0.94
4:C1:113:ALA:CB	5:F1:77:ARG:HB2	1.97	0.94
4:G1:46:GLY:O	11:D8:274:PRO:HG3	1.65	0.94
4:I1:21:ASN:OD1	4:I1:24:LEU:CG	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:40:ILE:CG1	29:N1:1002:PEB:HBA1	1.97	0.94
8:e2:87:MET:O	8:e2:91:GLU:HG3	1.66	0.94
8:e2:151:ASN:O	7:X2:108:ARG:HD2	1.66	0.94
8:e2:290:ARG:CZ	5:F7:15:ARG:HH12	1.81	0.94
6:W2:92:LEU:HB3	6:W2:105:LEU:HD23	1.47	0.94
7:B5:108:ARG:HE	18:MC:266:GLY:C	1.74	0.94
7:I5:7:ARG:HE	28:bP:138:LEU:HD23	1.32	0.94
11:D5:274:PRO:HG3	4:GK:46:GLY:O	1.68	0.94
7:a7:26:ALA:HB1	12:E8:40:VAL:CA	1.98	0.94
7:I8:6:SER:CB	7:I8:26:ALA:CB	2.44	0.94
12:E8:162:ASN:HB3	29:kF:203:PEB:HNC	1.32	0.94
12:E8:183:TYR:CD2	6:bF:83:TYR:CB	2.51	0.94
3:B9:207:ARG:NH1	27:aP:61:ARG:HH12	1.63	0.94
15:bB:373:GLU:OE1	21:MP:124:GLY:HA3	1.68	0.94
6:JD:25:GLU:OE1	6:LD:33:ARG:HD2	1.65	0.94
7:LE:7:ARG:CD	18:ME:258:THR:CG2	2.46	0.94
18:ME:313:THR:O	18:ME:316:TYR:CZ	2.19	0.94
6:AG:2:LYS:HZ3	30:MG:403:PUB:CAB	1.78	0.94
6:GJ:75:ASN:OD1	6:GJ:78:LYS:HG2	1.67	0.94
6:GJ:98:VAL:HG21	7:HJ:19:VAL:HG21	1.47	0.94
6:WK:47:ASN:O	6:WK:51:VAL:HG23	1.68	0.94
6:ML:40:ALA:HA	6:ML:144:MET:HE1	1.49	0.94
5:J1:17:GLU:HB3	15:bB:340:GLU:HG3	1.47	0.94
6:d1:52:VAL:HG13	6:d1:86:VAL:HG12	1.48	0.94
3:B7:207:ARG:HH12	27:3P:61:ARG:HH12	0.98	0.94
7:I8:77:ARG:CZ	29:I8:201:PEB:O2B	2.16	0.94
7:V9:150:LYS:HG2	13:kH:61:ARG:NH1	1.83	0.94
15:bB:341:ALA:HB3	20:KP:68:PRO:HG2	1.48	0.94
18:ME:300:VAL:HG13	6:gL:49:GLU:HG2	0.97	0.94
6:qJ:33:ARG:CZ	6:qJ:151:GLU:OE2	2.15	0.94
6:AL:138:LEU:HB2	29:AL:202:PEB:HMD1	1.47	0.94
29:RL:202:PEB:HAD1	6:SL:33:ARG:CZ	1.98	0.94
6:j1:52:VAL:HG13	6:j1:86:VAL:HG12	1.48	0.94
10:d4:283:ARG:HE	10:d4:283:ARG:HA	1.28	0.94
13:k6:192:VAL:HG21	4:I7:134:GLN:HG3	1.46	0.94
7:a7:83:LEU:O	7:a7:86:GLY:O	1.86	0.94
7:I8:74:TYR:CE1	15:bM:238:ARG:NE	2.35	0.94
18:ME:236:ASP:CG	29:SI:202:PEB:OA	2.11	0.94
18:ME:303:PHE:CE1	6:gL:53:LYS:HG3	2.03	0.94
3:BK:204:ARG:CB	5:LK:125:SER:OG	2.16	0.94
5:FK:47:ASN:HD21	5:FK:141:LEU:CD2	1.80	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:21:ASN:OD1	4:IK:24:LEU:CG	2.15	0.94
6:AN:38:LEU:O	6:AN:42:GLU:OE1	1.86	0.94
14:MN:295:PHE:O	14:MN:299:ARG:CG	2.15	0.94
21:wP:72:MET:HA	21:wP:77:ARG:HB3	1.49	0.94
3:B1:20:PHE:CE1	4:K1:117:GLU:OE2	2.21	0.93
8:e2:147:PHE:CD1	8:e2:159:LEU:HD13	2.02	0.93
29:L5:201:PEB:O2C	13:k6:224:ILE:HD13	1.69	0.93
29:KD:202:PEB:CBD	6:LD:33:ARG:NH1	2.32	0.93
6:IE:14:ALA:HB1	18:ME:51:PRO:HD3	1.45	0.93
18:ME:301:ASN:CG	6:gL:53:LYS:HD2	1.93	0.93
4:GF:104:THR:HG23	4:GF:107:MET:HG2	1.49	0.93
7:BG:97:LEU:HD23	7:BG:168:TYR:CE2	2.03	0.93
6:GJ:73:GLY:HA2	6:GJ:78:LYS:CB	1.98	0.93
29:eR:401:PEB:CAA	7:PR:82:CYS:CB	2.46	0.93
6:f1:28:GLN:CG	6:h1:33:ARG:HH12	1.81	0.93
6:Q2:92:LEU:HB3	6:Q2:105:LEU:HD23	1.47	0.93
7:I5:14:ALA:HA	21:LP:124:GLY:CA	1.98	0.93
7:I8:13:ASP:OD1	7:I8:17:ALA:HB3	1.68	0.93
5:L9:18:PHE:HD1	20:vP:67:SER:HB3	1.33	0.93
6:SJ:51:VAL:HG23	6:SJ:52:VAL:N	1.79	0.93
6:qJ:33:ARG:CZ	6:qJ:147:GLN:HE22	1.80	0.93
5:LK:40:ILE:HG13	29:LK:1002:PEB:HBA1	1.50	0.93
15:bM:374:THR:OG1	21:oP:63:SER:HB2	1.65	0.93
3:B1:204:ARG:CB	5:L1:125:SER:OG	2.16	0.93
3:B7:172:LYS:HB2	26:2P:86:PRO:CG	1.97	0.93
5:L9:30:MET:HE2	27:3P:237:ALA:HB1	1.50	0.93
7:a9:62:GLU:CD	7:a9:129:ARG:HG2	1.93	0.93
7:FG:108:ARG:NH1	14:MG:203:GLN:HE22	1.65	0.93
7:LJ:29:SER:HG	28:4P:231:ILE:HD12	1.26	0.93
6:kL:91:ARG:NH2	7:tL:74:TYR:OH	2.01	0.93
7:PM:61:CYS:CB	29:PM:202:PEB:CBD	2.46	0.93
6:EO:42:GLU:O	6:EO:42:GLU:CD	2.10	0.93
7:BQ:97:LEU:HD23	7:BQ:168:TYR:CE2	2.03	0.93
6:CQ:33:ARG:O	6:CQ:36:ALA:N	2.01	0.93
7:JQ:108:ARG:CD	14:MQ:257:THR:HG23	1.96	0.93
7:JQ:108:ARG:NE	14:MQ:257:THR:CG2	2.31	0.93
5:L1:40:ILE:HG13	29:L1:1002:PEB:HBA1	1.50	0.93
8:e2:103:VAL:HG23	8:e2:104:PHE:HD1	1.32	0.93
7:I5:13:ASP:OD1	7:I5:17:ALA:HB3	1.68	0.93
3:B9:121:ASN:HD22	26:ZP:52:GLY:CA	1.80	0.93
5:H9:23:GLN:CG	13:kH:163:ALA:O	2.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:221:PHE:HE1	27:aP:81:LEU:HD22	1.05	0.93
6:cJ:66:LEU:HD22	6:cJ:72:ALA:HB3	1.48	0.93
19:zJ:363:ARG:N	21:nP:62:TYR:CZ	2.36	0.93
5:JK:18:PHE:CD1	15:bM:335:ILE:CD1	2.39	0.93
7:TL:25:GLN:HG2	25:1P:521:THR:CG2	1.93	0.93
7:ZL:108:ARG:HA	16:xL:39:LEU:O	1.66	0.93
19:zL:363:ARG:HA	21:LP:62:TYR:CD1	2.03	0.93
6:UR:137:ARG:NH2	29:UR:202:PEB:O1B	2.01	0.93
5:J1:17:GLU:HB2	15:bB:340:GLU:HG2	1.50	0.93
6:h1:52:VAL:HG13	6:h1:86:VAL:HG12	1.49	0.93
6:O2:137:ARG:HH22	29:O2:202:PEB:CGB	1.82	0.93
13:k6:283:LYS:O	13:k6:284:LEU:HD22	1.66	0.93
7:DB:149:ARG:NH2	6:EB:157:ASP:OD2	2.00	0.93
7:PB:61:CYS:HB2	29:PB:202:PEB:CBD	1.99	0.93
7:ED:115:GLU:HA	7:ED:118:ILE:HB	1.51	0.93
6:HD:137:ARG:NH2	29:HD:202:PEB:HNA	1.64	0.93
3:BF:204:ARG:HH12	21:uP:57:ALA:HB1	1.31	0.93
3:BF:225:VAL:C	20:TP:75:GLU:HG2	1.76	0.93
7:PJ:35:ASN:ND2	29:PJ:202:PEB:O1C	2.01	0.93
5:JK:17:GLU:OE1	15:bM:333:ARG:CG	2.15	0.93
7:gK:7:ARG:HD2	14:MN:96:LYS:HA	0.93	0.93
6:SR:51:VAL:HG12	6:SR:137:ARG:HH21	1.26	0.93
6:WR:142:ARG:CG	29:WR:202:PEB:CBA	2.43	0.93
7:E4:21:GLY:O	7:E4:25:GLN:NE2	2.02	0.93
12:E5:183:TYR:HD2	6:bI:83:TYR:CD2	1.53	0.93
13:k6:134:ILE:CG1	13:k6:143:ALA:HB3	1.97	0.93
7:PB:61:CYS:CB	29:PB:202:PEB:CBD	2.46	0.93
18:MC:255:LYS:O	18:MC:256:THR:OG1	1.85	0.93
7:GD:136:ALA:CB	29:GD:203:PEB:HBC2	1.98	0.93
7:LG:115:GLU:OE2	14:MG:232:LYS:CD	2.14	0.93
6:hK:52:VAL:HG13	6:hK:86:VAL:HG12	1.49	0.93
6:AL:68:ASN:HB2	6:AL:71:GLU:HG3	1.51	0.93
6:GL:72:ALA:CB	29:GL:201:PEB:HMA3	1.69	0.93
6:ML:140:VAL:HG23	6:ML:146:ALA:HA	1.50	0.93
5:D1:46:SER:O	4:M1:159:ASN:ND2	2.02	0.93
5:F1:47:ASN:HD21	5:F1:141:LEU:CD2	1.80	0.93
6:W1:47:ASN:O	6:W1:51:VAL:HG23	1.68	0.93
8:e2:107:ALA:HB1	8:e2:146:ARG:NE	1.82	0.93
7:C4:58:GLY:HA3	29:C4:203:PEB:C2D	1.99	0.93
7:G4:21:GLY:O	7:G4:25:GLN:NE2	2.02	0.93
7:G4:58:GLY:C	29:G4:203:PEB:CAD	2.41	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:183:TYR:CD2	6:bI:83:TYR:CB	2.50	0.93
12:E8:183:TYR:CD2	6:bF:83:TYR:HD2	1.59	0.93
1:X9:263:THR:CG2	5:D9:115:GLU:CG	2.47	0.93
7:NB:170:ASP:CG	28:bP:184:THR:CG2	2.42	0.93
7:RB:85:ASP:OD1	29:RB:201:PEB:H1D1	1.01	0.93
6:fF:9:VAL:CG2	7:gF:1:MET:HE3	1.98	0.93
5:FI:15:ARG:HH21	5:FI:17:GLU:CD	1.76	0.93
6:oJ:99:VAL:HG23	7:pJ:9:VAL:HG21	1.51	0.93
6:sJ:68:ASN:HB2	6:sJ:71:GLU:HG3	1.51	0.93
7:NM:22:SER:O	21:oP:147:LYS:HG2	1.68	0.93
7:PM:61:CYS:HB2	29:PM:202:PEB:CBD	1.99	0.93
21:dP:97:LEU:HD13	20:eP:18:LEU:HD22	1.51	0.93
6:CQ:11:ALA:HA	14:MQ:141:TYR:HD2	1.32	0.93
7:HQ:141:PHE:CD2	29:HQ:203:PEB:HMB2	2.03	0.93
8:e2:148:LEU:CD1	7:X2:108:ARG:NH2	2.17	0.93
7:I4:133:ILE:HG13	29:I4:203:PEB:HBC1	1.47	0.93
7:A5:69:PRO:HG3	7:A5:74:TYR:CZ	2.04	0.93
12:E5:185:ALA:HB1	6:bI:67:LYS:HZ1	1.24	0.93
13:k6:61:ARG:NH2	7:V7:146:ALA:O	2.02	0.93
4:K7:52:ILE:HD12	20:TP:68:PRO:HG3	1.47	0.93
6:FD:33:ARG:HH21	29:ID:202:PEB:HBD1	1.24	0.93
5:JK:17:GLU:CB	15:bM:335:ILE:CG1	2.47	0.93
6:cL:66:LEU:HD22	6:cL:72:ALA:CB	1.99	0.93
15:bM:343:PHE:CZ	20:mP:64:ASP:CA	2.51	0.93
7:DM:149:ARG:NH2	6:EM:157:ASP:OD2	2.00	0.93
6:GN:38:LEU:O	6:GN:42:GLU:OE1	1.87	0.93
7:FQ:137:GLN:OE1	29:FQ:203:PEB:NB	2.00	0.93
7:HQ:136:ALA:CB	29:HQ:203:PEB:CGC	2.46	0.93
7:P1:147:THR:HG21	29:Q7:202:PEB:HMA3	1.49	0.93
6:U1:52:VAL:HG13	6:U1:86:VAL:HG12	1.48	0.93
7:g1:101:ASP:OD1	14:MA:98:LEU:HD13	1.68	0.93
7:D3:39:ASP:CA	29:D3:202:PEB:CMD	2.47	0.93
7:K4:21:GLY:O	7:K4:25:GLN:NE2	2.02	0.93
7:I5:7:ARG:NH2	28:bP:88:LEU:HD23	1.79	0.93
7:I5:14:ALA:HB1	21:LP:123:ILE:N	1.84	0.93
7:V9:150:LYS:CG	13:kH:61:ARG:HH12	1.62	0.93
10:dD:280:SER:CB	6:WI:70:GLY:CA	2.46	0.93
7:ID:21:GLY:O	7:ID:25:GLN:NE2	2.02	0.93
18:ME:312:LEU:HD21	7:vL:68:SER:CA	1.97	0.93
7:LG:112:GLY:H	14:MG:232:LYS:HZ2	1.08	0.93
7:gI:1:MET:HG2	7:gI:104:VAL:CG2	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RJ:113:LEU:CD2	7:RJ:176:ILE:HG22	1.97	0.93
7:IJ:45:VAL:O	6:mJ:161:ASN:ND2	2.02	0.93
5:JK:11:GLN:CG	15:bM:333:ARG:HH21	1.78	0.93
7:PL:35:ASN:ND2	29:PL:202:PEB:O1C	2.01	0.93
5:N1:33:GLU:HG2	5:N1:36:GLN:HB2	1.47	0.93
7:K5:1:MET:CB	7:K5:104:VAL:HG21	1.85	0.93
7:k7:150:LYS:HZ1	7:G8:149:ARG:NE	1.67	0.93
5:H9:150:ILE:HG22	7:ZM:159:THR:HG21	1.48	0.93
6:GA:38:LEU:O	6:GA:42:GLU:OE1	1.87	0.93
7:LC:120:LEU:HD11	18:MC:213:THR:HG23	1.51	0.93
10:dD:280:SER:CB	6:WI:69:PRO:C	2.42	0.93
18:ME:255:LYS:O	18:ME:256:THR:OG1	1.85	0.93
29:BG:201:PEB:HBC1	29:MG:404:PEB:HBD1	1.50	0.93
6:IG:2:LYS:HZ1	14:MG:254:VAL:CG2	1.81	0.93
6:AJ:139:CYS:SG	29:AJ:202:PEB:H3A1	0.83	0.93
6:kJ:91:ARG:NH2	7:tJ:74:TYR:OH	2.01	0.93
6:AL:139:CYS:SG	29:AL:202:PEB:H3A1	0.83	0.93
7:HM:85:ASP:OD1	29:HM:201:PEB:H1D1	1.01	0.93
7:NM:170:ASP:CG	28:4P:184:THR:CG2	2.42	0.93
21:OP:87:TYR:HE2	24:XP:87:LEU:HD22	1.34	0.93
7:VR:133:ILE:O	7:VR:137:GLN:HG2	1.67	0.93
5:H1:35:ASN:ND2	29:H1:1002:PEB:C3C	2.32	0.92
5:J1:57:ARG:NH1	31:M1:1001:CYC:O1D	2.01	0.92
4:M1:93:ARG:CD	5:N1:18:PHE:HD1	1.81	0.92
6:S2:51:VAL:HG12	6:S2:137:ARG:HH21	1.26	0.92
7:I4:21:GLY:O	7:I4:25:GLN:NE2	2.02	0.92
13:k6:151:VAL:CG1	13:k6:156:THR:HG21	2.00	0.92
13:k6:220:GLU:O	4:E7:79:ILE:HD11	1.64	0.92
7:B8:104:VAL:CG2	18:ME:266:GLY:N	2.11	0.92
4:E9:79:ILE:CD1	13:kH:220:GLU:C	2.41	0.92
5:J9:107:ASP:OD1	26:ZP:55:PRO:HD3	1.69	0.92
7:HA:116:THR:HG21	14:MA:295:PHE:HE1	1.33	0.92
6:UB:142:ARG:HG3	14:MG:112:LEU:O	1.69	0.92
4:GI:104:THR:HG23	4:GI:107:MET:HG2	1.49	0.92
6:fI:9:VAL:CG2	7:gI:1:MET:HE3	1.98	0.92
4:IK:49:GLN:NE2	15:bM:337:PRO:N	2.17	0.92
17:yL:111:CYS:CB	30:yL:303:PUB:HBA2	1.89	0.92
19:zL:363:ARG:CA	21:LP:62:TYR:CD1	2.49	0.92
8:eR:57:PHE:HE2	7:TR:77:ARG:O	1.50	0.92
8:eR:103:VAL:HG23	8:eR:104:PHE:HD1	1.32	0.92
5:H1:35:ASN:HD22	29:H1:1002:PEB:C3C	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:115:GLU:HA	7:G4:118:ILE:HB	1.51	0.92
7:A8:69:PRO:HG3	7:A8:74:TYR:CZ	2.04	0.92
3:B9:172:LYS:CB	26:ZP:86:PRO:CD	2.46	0.92
7:a9:83:LEU:O	7:a9:86:GLY:O	1.86	0.92
7:LC:116:THR:HB	18:MC:213:THR:HB	1.50	0.92
7:LJ:26:ALA:HB3	28:4P:228:ILE:HG22	1.48	0.92
19:zJ:363:ARG:HA	21:nP:62:TYR:CD1	2.04	0.92
3:BK:203:ILE:HG23	20:IP:82:LEU:HD11	1.50	0.92
5:NK:35:ASN:O	5:NK:39:ASP:OD1	1.87	0.92
7:FL:144:ASN:HD21	7:FL:153:PHE:HE2	0.96	0.92
6:ML:33:ARG:NH1	6:ML:147:GLN:HE21	1.67	0.92
6:KN:131:ILE:CD1	6:KN:159:LEU:CD2	2.47	0.92
7:HQ:136:ALA:HB3	29:HQ:203:PEB:O2C	1.67	0.92
7:LQ:133:ILE:HG12	29:LQ:202:PEB:HBC2	1.48	0.92
6:M2:140:VAL:HG13	6:M2:145:SER:O	1.68	0.92
7:ED:21:GLY:O	7:ED:25:GLN:NE2	2.02	0.92
7:ID:171:ARG:HB2	7:ID:171:ARG:HH11	1.31	0.92
3:BF:228:MET:HA	3:BF:228:MET:CE	1.98	0.92
7:FG:54:ASP:HB2	29:FG:203:PEB:CBA	1.98	0.92
6:cJ:72:ALA:HB1	29:cJ:201:PEB:HMA2	0.95	0.92
6:AN:5:ILE:CD1	6:AN:27:ILE:CD1	2.34	0.92
8:eR:87:MET:O	8:eR:91:GLU:HG3	1.66	0.92
6:Q1:52:VAL:HG13	6:Q1:86:VAL:HG12	1.48	0.92
6:J4:9:VAL:HG11	7:K4:95:TYR:CD1	2.00	0.92
7:M4:51:MET:HE1	7:M4:137:GLN:HG3	1.47	0.92
12:E5:188:ALA:HB2	6:bI:64:ALA:CB	1.98	0.92
1:X7:263:THR:CG2	5:D7:115:GLU:CG	2.47	0.92
12:E8:183:TYR:HD2	6:bF:83:TYR:CD2	1.59	0.92
5:H9:77:ARG:HH22	31:H9:1001:CYC:HBD1	1.31	0.92
6:jB:147:GLN:OE1	29:mB:202:PEB:CMC	2.16	0.92
7:DC:51:MET:CE	7:DC:137:GLN:CB	2.26	0.92
7:MD:21:GLY:O	7:MD:25:GLN:NE2	2.02	0.92
7:FG:61:CYS:HB3	29:FG:203:PEB:HAD1	1.15	0.92
7:FJ:143:THR:HG1	25:YP:514:ILE:HG23	1.25	0.92
15:bM:343:PHE:HZ	20:mP:64:ASP:N	1.65	0.92
21:HP:71:MEN:O	21:HP:77:ARG:HD3	1.68	0.92
7:FQ:47:ASN:HB3	29:FQ:203:PEB:HMA3	1.52	0.92
5:J1:18:PHE:CG	15:bB:335:ILE:CD1	2.52	0.92
6:M2:81:LYS:NZ	29:M2:201:PEB:HAB2	1.85	0.92
6:O2:68:ASN:OD1	13:k6:235:TYR:HB2	1.69	0.92
6:O2:69:PRO:HG2	13:k6:232:PHE:HD2	1.28	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:97:LEU:CD2	6:O2:155:TYR:CD2	2.52	0.92
7:P2:69:PRO:HG2	7:X2:16:ALA:HB2	1.50	0.92
6:W2:9:VAL:CG2	7:X2:1:MET:HE1	2.00	0.92
6:A3:42:GLU:CG	7:B3:24:LEU:HD12	2.00	0.92
9:O3:308:TYR:HE2	4:KI:70:PRO:HD3	1.22	0.92
6:B4:77:GLU:HG3	6:B4:81:LYS:HE3	1.52	0.92
6:F4:33:ARG:NH2	29:I4:202:PEB:CBD	2.32	0.92
7:DA:20:GLY:O	7:DA:24:LEU:CD1	2.17	0.92
7:GD:75:THR:CA	29:JD:201:PEB:CBD	2.47	0.92
6:CG:33:ARG:O	6:CG:36:ALA:N	2.01	0.92
7:FG:47:ASN:HB3	29:FG:203:PEB:HMA3	1.51	0.92
6:QJ:73:GLY:HA2	6:QJ:78:LYS:HD3	1.48	0.92
6:QK:52:VAL:HG13	6:QK:86:VAL:HG12	1.48	0.92
6:UK:52:VAL:HG13	6:UK:86:VAL:HG12	1.48	0.92
6:oL:99:VAL:HG23	7:pL:9:VAL:HG21	1.51	0.92
6:f1:28:GLN:HG2	6:h1:33:ARG:HH12	1.31	0.92
6:W2:138:LEU:HD12	6:W2:143:ASP:CG	1.94	0.92
12:E5:183:TYR:CB	6:bI:83:TYR:CD2	2.50	0.92
7:I8:13:ASP:OD2	7:I8:16:ALA:CB	2.10	0.92
1:X9:264:GLU:CA	5:D9:115:GLU:OE1	2.18	0.92
6:W9:76:GLN:HE21	7:PR:174:ALA:HB1	1.14	0.92
6:GJ:72:ALA:HB1	29:GJ:201:PEB:C2A	2.00	0.92
6:cJ:66:LEU:HD22	6:cJ:72:ALA:CB	1.99	0.92
5:HK:35:ASN:ND2	29:HK:1002:PEB:C3C	2.32	0.92
6:oL:17:ARG:O	7:pL:95:TYR:OH	1.85	0.92
16:wL:175:GLU:CD	16:xL:47:ARG:HG2	1.93	0.92
19:zL:332:LEU:HD23	20:NP:64:ASP:HA	1.50	0.92
7:RM:85:ASP:OD1	29:RM:201:PEB:H1D1	1.01	0.92
6:UM:142:ARG:CG	14:MQ:112:LEU:O	2.18	0.92
7:HN:20:GLY:O	7:HN:24:LEU:CD1	2.18	0.92
6:WR:65:TYR:CZ	6:WR:66:LEU:HD12	2.05	0.92
7:B3:120:LEU:HD11	29:B3:201:PEB:HBB1	1.52	0.92
7:C4:21:GLY:O	7:C4:25:GLN:NE2	2.02	0.92
7:L5:108:ARG:CD	4:I7:64:PRO:CG	2.29	0.92
7:C8:74:TYR:O	7:C8:75:THR:OG1	1.87	0.92
4:I9:93:ARG:NH2	5:L9:74:TYR:OH	2.01	0.92
6:dB:54:GLU:CG	29:dB:202:PEB:HAC1	2.00	0.92
10:dD:261:THR:HG22	6:WI:133:TYR:OH	1.69	0.92
6:AJ:137:ARG:HH22	29:AJ:202:PEB:C3B	1.82	0.92
16:AM:172:VAL:CG1	7:kM:115:GLU:OE1	2.18	0.92
6:Q2:97:LEU:CD2	6:Q2:155:TYR:CD2	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K4:115:GLU:HA	7:K4:118:ILE:HB	1.51	0.92
7:G5:149:ARG:CZ	7:k9:150:LYS:HE3	1.98	0.92
5:L9:63:GLN:HE22	27:3P:284:VAL:CG2	1.81	0.92
6:AA:38:LEU:O	6:AA:42:GLU:OE1	1.86	0.92
3:BF:204:ARG:HD3	31:rP:1001:CYC:CGD	1.99	0.92
4:CF:145:GLN:HE21	29:Nf:1002:PEB:HMC3	0.90	0.92
29:BG:201:PEB:HBD2	14:MG:126:SER:OG	1.46	0.92
7:LG:58:GLY:CA	29:LG:203:PEB:CMD	2.48	0.92
7:FJ:159:THR:HG21	25:YP:513:GLY:HA3	1.52	0.92
6:OJ:68:ASN:HB2	6:OJ:71:GLU:HG3	1.51	0.92
6:KL:72:ALA:O	6:KL:78:LYS:NZ	2.03	0.92
6:QL:45:ALA:O	6:QL:48:HIS:ND1	2.03	0.92
6:cL:137:ARG:HH22	29:cL:202:PEB:HNA	1.18	0.92
7:IL:45:VAL:O	6:mL:161:ASN:ND2	2.02	0.92
7:cM:85:ASP:OD1	29:cM:201:PEB:H1D1	1.01	0.92
6:J4:133:TYR:CE1	6:J4:137:ARG:CD	2.44	0.92
7:I5:14:ALA:CA	21:LP:124:GLY:H	1.82	0.92
7:L5:103:SER:O	7:L5:107:ASP:CG	2.12	0.92
5:F9:17:GLU:CD	8:eR:301:PHE:CE2	2.47	0.92
6:KB:21:ASN:HD21	6:MB:101:GLY:HA2	1.31	0.92
7:kB:85:ASP:OD1	29:kB:201:PEB:HHC1	1.65	0.92
6:BD:77:GLU:HG3	6:BD:81:LYS:HE3	1.51	0.92
4:CF:145:GLN:HE21	29:Nf:1002:PEB:CMC	1.82	0.92
6:fK:52:VAL:HG13	6:fK:86:VAL:HG12	1.48	0.92
7:FL:157:ASP:HB2	25:1P:638:ASN:OD1	1.70	0.92
15:bM:335:ILE:HG21	15:bM:340:GLU:HB2	0.95	0.92
7:FM:85:ASP:OD1	29:FM:201:PEB:H1D1	1.01	0.92
7:DN:20:GLY:O	7:DN:24:LEU:CD1	2.17	0.92
7:DO:39:ASP:CA	29:DO:202:PEB:HMD2	2.00	0.92
6:UR:43:LYS:CB	6:UR:144:MET:CE	2.46	0.92
4:C1:4:PRO:HG2	4:C1:30:ARG:HD3	1.49	0.92
10:d4:217:SER:HG	29:I4:201:PEB:CAC	1.61	0.92
10:d4:308:ARG:HA	10:d4:311:GLN:HE21	1.32	0.92
7:I4:174:ALA:HB1	6:WF:76:GLN:HG3	1.50	0.92
7:a9:52:VAL:CG2	7:a9:87:GLU:HB3	2.00	0.92
6:GB:138:LEU:CD1	29:GB:202:PEB:CMD	2.46	0.92
6:UB:67:LYS:NZ	14:MG:97:PHE:CE1	2.38	0.92
18:ME:303:PHE:CE1	6:gL:53:LYS:HA	2.05	0.92
4:KF:70:PRO:HD3	9:OO:308:TYR:HE2	1.16	0.92
5:JI:63:GLN:HG2	20:PP:73:TYR:CZ	2.04	0.92
5:LI:151:GLY:CA	29:LI:1002:PEB:O2B	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AJ:137:ARG:HH21	29:AJ:202:PEB:C4B	1.83	0.92
6:IL:72:ALA:HB3	29:IL:201:PEB:HMA2	1.49	0.92
6:OL:68:ASN:HB2	6:OL:71:GLU:HG3	1.51	0.92
7:ZL:19:VAL:HG13	7:ZL:23:ASP:OD1	1.70	0.92
7:kM:85:ASP:OD1	29:kM:201:PEB:HHC1	1.65	0.92
7:LQ:58:GLY:HA3	29:LQ:202:PEB:CMC	1.99	0.92
6:WR:9:VAL:CG2	7:XR:1:MET:HE1	2.00	0.92
1:X1:125:LEU:CD1	1:X1:195:TYR:OH	2.18	0.91
6:W2:142:ARG:HD3	29:W2:202:PEB:HBA3	0.92	0.91
7:D3:39:ASP:CG	29:D3:202:PEB:HHC1	1.95	0.91
10:d4:197:THR:HA	29:M4:201:PEB:OD	1.70	0.91
4:K9:57:GLN:OE1	5:JI:145:THR:HB	1.66	0.91
7:V9:150:LYS:HG3	13:kH:61:ARG:HH11	0.93	0.91
6:EB:54:GLU:HG2	6:EB:133:TYR:HE2	1.35	0.91
7:LC:51:MET:CE	7:LC:137:GLN:CB	2.26	0.91
7:CD:21:GLY:O	7:CD:25:GLN:NE2	2.02	0.91
7:KD:115:GLU:HA	7:KD:118:ILE:HB	1.51	0.91
7:LE:7:ARG:HD3	18:ME:258:THR:HG21	1.49	0.91
7:FJ:157:ASP:HB2	25:YP:638:ASN:OD1	1.69	0.91
7:HJ:5:PHE:CZ	7:HJ:31:ILE:HD11	2.05	0.91
4:CK:113:ALA:HB3	5:FK:77:ARG:HB2	1.52	0.91
6:SK:135:ARG:NH1	6:SK:157:ASP:OD1	2.03	0.91
6:AL:137:ARG:HH22	29:AL:202:PEB:C3B	1.82	0.91
6:GL:72:ALA:HB1	29:GL:201:PEB:C2A	2.00	0.91
6:GL:72:ALA:HB3	29:GL:201:PEB:CMA	1.65	0.91
15:bM:341:ALA:HB2	20:mP:68:PRO:HG2	0.92	0.91
7:mM:85:ASP:OD1	29:mM:201:PEB:H1D1	1.01	0.91
7:DN:113:LEU:CD2	14:MN:280:PHE:CE2	2.52	0.91
7:FQ:50:CYS:O	29:FQ:203:PEB:HAA2	1.69	0.91
6:QR:142:ARG:CD	29:QR:202:PEB:HBA1	1.94	0.91
10:d4:91:GLU:OE2	6:D4:114:ARG:NH2	2.03	0.91
7:NB:15:LYS:NZ	21:MP:131:GLN:OE1	2.00	0.91
7:LC:116:THR:HB	18:MC:213:THR:CG2	2.00	0.91
18:MC:46:SER:HB3	18:MC:188:PHE:HB2	1.51	0.91
18:ME:303:PHE:HE1	6:gL:53:LYS:HG3	1.33	0.91
1:XF:105:LYS:HZ1	7:aF:91:ARG:CZ	1.83	0.91
3:BI:227:GLU:HG2	20:vP:56:GLN:HE22	1.27	0.91
7:bJ:19:VAL:HG13	7:bJ:23:ASP:OD1	1.70	0.91
7:nJ:88:ILE:CD1	16:xJ:203:VAL:HB	2.01	0.91
4:IK:49:GLN:HE22	15:bM:337:PRO:HA	0.77	0.91
7:BL:19:VAL:HG13	7:BL:23:ASP:OD1	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:QP:62:TYR:O	27:3P:61:ARG:NH2	2.03	0.91
6:S1:135:ARG:NH1	6:S1:157:ASP:OD1	2.03	0.91
29:e2:401:PEB:H2A1	7:P2:59:MET:HE1	1.50	0.91
12:E5:182:ASN:CG	6:bI:80:ASN:HD21	1.78	0.91
13:k6:5:PRO:HG3	6:YB:49:GLU:CD	1.95	0.91
13:k6:102:TYR:OH	6:Q7:69:PRO:HG3	1.71	0.91
13:k6:192:VAL:HG21	4:I7:134:GLN:CD	1.94	0.91
13:k6:220:GLU:C	4:E7:79:ILE:CD1	2.41	0.91
7:a7:52:VAL:CG2	7:a7:87:GLU:HB3	2.00	0.91
5:HI:151:GLY:CA	29:HI:1002:PEB:O2B	2.18	0.91
7:dJ:19:VAL:HG13	7:dJ:23:ASP:OD1	1.70	0.91
7:jJ:19:VAL:HG13	7:jJ:23:ASP:OD1	1.70	0.91
5:DK:40:ILE:HG13	29:DK:1002:PEB:HBA1	1.51	0.91
7:VL:19:VAL:HG13	7:VL:23:ASP:OD1	1.71	0.91
7:FN:115:GLU:OE1	14:MN:111:ARG:CG	2.18	0.91
6:AO:42:GLU:CG	7:BO:24:LEU:HD12	2.00	0.91
3:B1:205:ARG:HH22	20:JP:52:LYS:HG3	1.16	0.91
6:M2:37:ARG:HG3	6:M2:151:GLU:OE1	1.69	0.91
6:O2:37:ARG:HH12	6:O2:100:GLY:CA	1.80	0.91
6:Q2:39:GLU:CD	6:Q2:144:MET:HB3	1.96	0.91
10:d4:237:LEU:HD11	7:E4:2:LEU:HG	1.50	0.91
13:k6:5:PRO:HG3	6:YB:49:GLU:OE1	0.74	0.91
7:I8:4:ALA:CB	7:I8:98:LEU:HD23	2.00	0.91
10:dD:288:ARG:NH2	7:TI:62:GLU:HG2	1.84	0.91
7:ED:149:ARG:HB2	29:ED:202:PEB:OA	1.68	0.91
5:JF:22:THR:HB	27:3P:92:PRO:CG	2.00	0.91
5:LF:151:GLY:CA	29:LF:1002:PEB:O2B	2.18	0.91
3:BI:204:ARG:HH12	21:SP:57:ALA:HB1	1.33	0.91
1:XK:125:LEU:CD1	1:XK:195:TYR:OH	2.18	0.91
6:GM:138:LEU:CD1	29:GM:202:PEB:CMD	2.47	0.91
7:PR:69:PRO:HG2	7:XR:16:ALA:HB2	1.50	0.91
6:WR:5:ILE:O	6:WR:9:VAL:HG22	1.69	0.91
8:e2:235:SER:OG	29:e2:401:PEB:C4D	2.19	0.91
6:D4:34:SER:HB2	6:D4:37:ARG:HH21	1.35	0.91
7:G4:58:GLY:N	29:G4:203:PEB:CMD	2.34	0.91
7:M4:21:GLY:O	7:M4:25:GLN:NE2	2.02	0.91
6:U9:83:TYR:HD2	13:kH:261:MET:HE3	1.34	0.91
7:V9:146:ALA:O	13:kH:61:ARG:NH2	2.02	0.91
7:DA:84:ARG:HH12	14:MA:149:ALA:HB1	1.35	0.91
6:EB:54:GLU:OE2	6:EB:137:ARG:HD3	1.69	0.91
7:GD:21:GLY:O	7:GD:25:GLN:NE2	2.02	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:302:ALA:HB1	18:ME:304:TRP:HZ3	1.33	0.91
5:HF:151:GLY:CA	29:HF:1002:PEB:O2B	2.18	0.91
7:HG:108:ARG:NH1	14:MG:302:ASN:HD22	1.69	0.91
6:cJ:133:TYR:CZ	6:cJ:137:ARG:HD2	2.04	0.91
16:wJ:86:CYS:HB2	30:wJ:305:PUB:CBA	2.01	0.91
7:HL:5:PHE:CZ	7:HL:31:ILE:HD11	2.05	0.91
7:RL:19:VAL:HG13	7:RL:23:ASP:OD1	1.70	0.91
6:SL:67:LYS:HZ2	26:ZP:121:VAL:CG1	1.83	0.91
15:bM:335:ILE:CG2	15:bM:340:GLU:HB3	2.01	0.91
5:H1:152:ASP:HB2	11:D8:219:TYR:CD2	2.05	0.91
5:N1:35:ASN:O	5:N1:39:ASP:OD1	1.87	0.91
10:d4:325:VAL:O	10:d4:329:MET:N	2.03	0.91
10:d4:331:GLN:HG3	10:dD:331:GLN:HE22	1.29	0.91
13:k6:192:VAL:HG21	4:I7:134:GLN:CG	2.00	0.91
13:k6:261:MET:HE3	6:U7:83:TYR:HD2	1.34	0.91
5:H7:150:ILE:HG22	7:ZB:159:THR:HG21	1.48	0.91
4:I9:134:GLN:CD	13:kH:192:VAL:HG21	1.94	0.91
6:KA:131:ILE:CD1	6:KA:159:LEU:CD2	2.47	0.91
15:bB:355:LEU:HD23	6:MB:53:LYS:HZ3	1.08	0.91
6:UB:67:LYS:HD3	14:MG:97:PHE:HZ	1.19	0.91
7:KD:21:GLY:O	7:KD:25:GLN:NE2	2.02	0.91
5:JF:65:GLN:CG	20:rP:68:PRO:HD3	1.98	0.91
6:hF:9:VAL:CG2	7:iF:1:MET:SD	2.59	0.91
7:FG:141:PHE:HZ	29:FG:203:PEB:HMA2	1.01	0.91
13:kH:5:PRO:HG3	6:YM:49:GLU:OE1	0.74	0.91
7:VJ:19:VAL:HG13	7:VJ:23:ASP:OD1	1.71	0.91
19:zJ:332:LEU:CD2	20:pP:63:PRO:O	2.16	0.91
7:TL:25:GLN:CG	25:1P:521:THR:HB	1.99	0.91
7:BO:120:LEU:HD11	29:BO:201:PEB:HBB1	1.52	0.91
8:eR:91:GLU:OE1	7:NR:108:ARG:NH2	2.02	0.91
12:E8:182:ASN:CG	6:bF:80:ASN:ND2	2.29	0.91
6:CJ:70:GLY:H	6:CJ:74:GLU:HG2	1.33	0.91
6:AL:139:CYS:SG	29:AL:202:PEB:C3A	1.01	0.91
7:fL:19:VAL:HG13	7:fL:23:ASP:OD1	1.70	0.91
16:wL:86:CYS:HB2	30:wL:305:PUB:CBA	2.01	0.91
7:E4:171:ARG:HB2	7:E4:171:ARG:HH11	1.31	0.91
7:C5:74:TYR:O	7:C5:75:THR:OG1	1.87	0.91
12:E5:40:VAL:HG12	7:a9:26:ALA:HB3	0.92	0.91
7:I8:4:ALA:HB2	7:I8:98:LEU:HD23	1.51	0.91
7:a9:147:THR:HG22	8:eR:287:ALA:HB3	1.46	0.91
7:HA:20:GLY:O	7:HA:24:LEU:CD1	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:312:LEU:HD23	7:vJ:68:SER:HA	1.45	0.91
6:AJ:139:CYS:SG	29:AJ:202:PEB:C3A	1.01	0.91
7:fJ:19:VAL:HG13	7:fJ:23:ASP:OD1	1.70	0.91
1:XK:125:LEU:HG	1:XK:195:TYR:CE1	2.05	0.91
4:EK:112:VAL:CG1	4:EK:113:ALA:H	1.82	0.91
5:JK:17:GLU:CB	15:bM:335:ILE:HD13	2.01	0.91
29:gK:202:PEB:HMC3	6:hK:33:ARG:HH22	1.36	0.91
6:UL:70:GLY:CA	6:UL:74:GLU:CD	2.43	0.91
7:IL:19:VAL:HG13	7:IL:23:ASP:OD1	1.71	0.91
19:zL:331:PRO:HB2	20:NP:68:PRO:HD3	1.51	0.91
15:bM:384:LEU:HD23	7:FM:125:ASN:HD21	1.33	0.91
6:OR:142:ARG:HH22	29:OR:202:PEB:C3B	1.83	0.91
6:QR:39:GLU:CD	6:QR:144:MET:HB3	1.96	0.91
5:D1:40:ILE:HG13	29:D1:1002:PEB:HBA1	1.51	0.91
4:E1:112:VAL:CG1	4:E1:113:ALA:H	1.82	0.91
6:O2:142:ARG:HG3	6:IB:76:GLN:OE1	1.69	0.91
6:W2:5:ILE:O	6:W2:9:VAL:HG22	1.69	0.91
7:L3:171:ARG:NH2	7:K5:74:TYR:HD1	1.63	0.91
7:GD:115:GLU:HA	7:GD:118:ILE:HB	1.51	0.91
5:NF:151:GLY:CA	29:NF:1002:PEB:O2B	2.18	0.91
7:BG:137:GLN:N	29:BG:203:PEB:O1C	2.03	0.91
7:RJ:113:LEU:HD21	7:RJ:176:ILE:CG2	2.01	0.91
7:hL:19:VAL:HG13	7:hL:23:ASP:OD1	1.70	0.91
6:dM:54:GLU:HG3	6:dM:133:TYR:HE2	1.32	0.91
6:KQ:2:LYS:NZ	30:MQ:404:PUB:CGB	2.34	0.91
7:E4:115:GLU:HA	7:E4:118:ILE:HB	1.51	0.91
7:B5:91:ARG:NH2	18:MC:293:MET:CA	2.34	0.91
12:E5:40:VAL:C	7:a9:26:ALA:CB	2.43	0.91
7:L8:107:ASP:OD1	4:I9:61:ASN:CG	2.13	0.91
5:H9:35:ASN:O	29:H9:1002:PEB:HMD1	1.71	0.91
4:I9:134:GLN:CG	13:kH:192:VAL:HG21	2.00	0.91
6:W9:99:VAL:CG2	7:Y9:9:VAL:HG21	2.01	0.91
5:JF:151:GLY:CA	29:JF:1002:PEB:O2B	2.18	0.91
7:LG:58:GLY:HA2	29:LG:203:PEB:CMD	2.01	0.91
13:kH:5:PRO:HG3	6:YM:49:GLU:CD	1.95	0.91
13:kH:151:VAL:CG1	13:kH:156:THR:HG21	2.00	0.91
13:kH:280:ARG:CG	13:kH:283:LYS:HZ3	1.83	0.91
7:LJ:26:ALA:CB	28:4P:228:ILE:HG23	2.01	0.91
7:hJ:19:VAL:HG13	7:hJ:23:ASP:OD1	1.70	0.91
19:zJ:363:ARG:CA	21:nP:62:TYR:CD1	2.53	0.91
5:JK:17:GLU:CG	15:bM:335:ILE:HB	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:XL:19:VAL:HG13	7:XL:23:ASP:OD1	1.71	0.91
6:cL:72:ALA:HB1	29:cL:201:PEB:HMA2	0.95	0.91
15:bM:343:PHE:HD2	20:mP:67:SER:OG	1.54	0.91
8:eR:221:ASN:ND2	7:TR:113:LEU:HA	1.86	0.91
8:e2:111:GLU:OE2	6:W2:114:ARG:HD2	1.70	0.90
12:E5:40:VAL:CA	7:a9:26:ALA:HB1	2.00	0.90
5:H7:35:ASN:O	29:H7:1002:PEB:HMD1	1.71	0.90
5:H7:39:ASP:OD1	29:H7:1002:PEB:CMD	2.20	0.90
6:W7:99:VAL:CG2	7:Y7:9:VAL:HG21	2.01	0.90
15:bB:342:TYR:HD2	15:bB:347:ALA:HA	1.35	0.90
5:NI:151:GLY:CA	29:NI:1002:PEB:O2B	2.18	0.90
7:IJ:108:ARG:CB	16:xJ:183:LYS:HZ3	1.83	0.90
16:wJ:86:CYS:CB	30:wJ:305:PUB:CAA	2.49	0.90
7:HQ:141:PHE:CZ	29:HQ:203:PEB:H3A1	2.06	0.90
1:X1:125:LEU:HG	1:X1:195:TYR:CE1	2.05	0.90
5:J1:69:PRO:HB3	5:N1:16:GLY:HA3	1.50	0.90
8:e2:278:LEU:HD23	6:W7:62:LYS:HE3	1.51	0.90
6:A3:42:GLU:HG3	7:B3:24:LEU:CD1	2.01	0.90
5:N7:39:ASP:OD1	29:N7:1002:PEB:CMD	2.19	0.90
12:E8:185:ALA:HB1	6:bF:67:LYS:HZ1	1.31	0.90
6:W9:53:LYS:CG	7:PR:114:LYS:HZ1	1.69	0.90
7:cB:85:ASP:OD1	29:cB:201:PEB:H1D1	1.01	0.90
7:mB:85:ASP:OD1	29:mB:201:PEB:H1D1	1.01	0.90
7:NJ:108:ARG:NH2	16:wJ:41:ASN:HB2	1.86	0.90
7:IJ:19:VAL:HG13	7:IJ:23:ASP:OD1	1.71	0.90
19:zL:363:ARG:N	21:LP:62:TYR:CE2	2.38	0.90
7:PM:61:CYS:HB3	29:PM:202:PEB:HBD2	1.51	0.90
29:eR:401:PEB:HAA1	7:PR:82:CYS:HB2	1.44	0.90
6:F4:25:GLU:OE1	6:H4:33:ARG:CD	2.19	0.90
7:G5:149:ARG:HH21	7:k9:150:LYS:CE	1.82	0.90
12:E8:209:ARG:CG	6:lF:70:GLY:CA	2.26	0.90
5:N9:39:ASP:OD1	29:N9:1002:PEB:CMD	2.19	0.90
6:WB:33:ARG:HH12	6:WB:147:GLN:HE21	1.17	0.90
7:JE:51:MET:CE	7:JE:137:GLN:CB	2.26	0.90
7:LE:51:MET:CE	7:LE:137:GLN:CB	2.26	0.90
7:LJ:26:ALA:O	28:4P:231:ILE:HD12	1.70	0.90
6:QJ:45:ALA:O	6:QJ:48:HIS:ND1	2.03	0.90
15:bM:335:ILE:HG21	15:bM:340:GLU:HB3	1.49	0.90
14:MQ:111:ARG:NE	29:MQ:401:PEB:HAB1	1.69	0.90
6:W2:65:TYR:CZ	6:W2:66:LEU:HD12	2.05	0.90
10:d4:226:ARG:CZ	6:WF:46:GLY:O	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:49:GLU:OE1	6:F4:49:GLU:N	2.05	0.90
7:G4:58:GLY:CA	29:G4:203:PEB:C2D	2.45	0.90
29:L5:201:PEB:HBC1	13:k6:195:ARG:NH1	1.86	0.90
13:k6:94:LEU:CD1	13:k6:120:ILE:HD13	2.02	0.90
7:k7:150:LYS:HE3	7:G8:149:ARG:CZ	2.00	0.90
6:U9:67:LYS:HZ1	13:kH:259:SER:HA	1.12	0.90
6:JD:49:GLU:OE1	6:JD:49:GLU:N	2.05	0.90
7:MD:115:GLU:HA	7:MD:118:ILE:HB	1.51	0.90
18:ME:200:ARG:HG3	18:ME:237:PHE:HE1	1.09	0.90
13:kH:94:LEU:CD1	13:kH:120:ILE:HD13	2.02	0.90
7:NJ:114:LYS:HG2	7:NJ:176:ILE:HA	1.52	0.90
7:VJ:155:ALA:HB1	7:NO:66:LEU:CD1	1.99	0.90
6:CL:70:GLY:H	6:CL:74:GLU:HG2	1.33	0.90
21:FP:67:ARG:HG3	21:FP:67:ARG:HH21	1.36	0.90
8:eR:153:GLN:HE21	7:XR:108:ARG:HH11	1.08	0.90
6:MR:37:ARG:HG3	6:MR:151:GLU:OE1	1.69	0.90
3:B1:207:ARG:HH12	3:B1:212:GLN:H	1.16	0.90
6:S2:57:ASP:OD1	6:S2:83:TYR:OH	1.89	0.90
7:C4:115:GLU:HA	7:C4:118:ILE:HB	1.51	0.90
7:I5:74:TYR:CE1	15:bB:238:ARG:NE	2.40	0.90
5:N7:35:ASN:O	29:N7:1002:PEB:HMD1	1.72	0.90
7:CD:115:GLU:HA	7:CD:118:ILE:HB	1.51	0.90
18:ME:200:ARG:NH1	18:ME:237:PHE:HD2	1.63	0.90
7:FG:108:ARG:HH11	14:MG:203:GLN:HE22	0.91	0.90
3:BI:227:GLU:HG3	20:vP:56:GLN:NE2	1.66	0.90
5:JI:151:GLY:CA	29:JI:1002:PEB:O2B	2.18	0.90
7:HJ:5:PHE:CE2	7:HJ:31:ILE:CD1	2.53	0.90
5:HK:35:ASN:HD22	29:HK:1002:PEB:C3C	1.83	0.90
7:NL:19:VAL:HG13	7:NL:23:ASP:OD1	1.70	0.90
7:dL:19:VAL:HG13	7:dL:23:ASP:OD1	1.70	0.90
6:AO:42:GLU:HG3	7:BO:24:LEU:CD1	2.01	0.90
6:MR:81:LYS:NZ	29:MR:201:PEB:HAB2	1.85	0.90
5:N1:19:LEU:HD13	5:N1:23:GLN:NE2	1.86	0.90
8:e2:126:TYR:N	29:V2:201:PEB:O1C	2.04	0.90
6:M2:49:GLU:O	6:M2:53:LYS:HG3	1.71	0.90
6:W2:138:LEU:CD1	6:W2:143:ASP:CG	2.43	0.90
7:M4:115:GLU:HA	7:M4:118:ILE:HB	1.51	0.90
7:I5:13:ASP:OD1	7:I5:17:ALA:CB	2.20	0.90
7:I5:91:ARG:CZ	28:bP:118:LEU:O	2.20	0.90
1:X7:264:GLU:CA	5:D7:115:GLU:OE1	2.18	0.90
5:F7:35:ASN:O	29:F7:1002:PEB:HMD1	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:7:ARG:O	28:4P:91:GLU:OE2	1.89	0.90
4:K9:57:GLN:CD	5:JI:145:THR:CB	2.41	0.90
5:L9:39:ASP:OD1	29:L9:1002:PEB:CMD	2.19	0.90
18:ME:144:ARG:HH21	18:ME:144:ARG:H	0.94	0.90
18:ME:301:ASN:HB3	6:gL:53:LYS:HD2	0.90	0.90
7:gF:1:MET:HG2	7:gF:104:VAL:CG2	1.99	0.90
7:BG:141:PHE:CD2	29:BG:203:PEB:CMB	2.54	0.90
5:FI:15:ARG:NH2	5:FI:17:GLU:CD	2.24	0.90
5:FI:151:GLY:CA	29:FI:1002:PEB:O2B	2.18	0.90
6:hI:9:VAL:CG2	7:iI:1:MET:SD	2.59	0.90
6:KJ:72:ALA:O	6:KJ:78:LYS:NZ	2.03	0.90
7:XJ:19:VAL:HG13	7:XJ:23:ASP:OD1	1.71	0.90
19:zJ:363:ARG:HD2	21:nP:62:TYR:O	1.71	0.90
5:JK:17:GLU:HB2	15:bM:335:ILE:CD1	2.00	0.90
8:eR:77:PHE:CE2	8:eR:84:LYS:NZ	2.39	0.90
6:UR:17:ARG:NH2	6:WR:2:LYS:NZ	2.20	0.90
7:VR:46:SER:CB	6:WR:157:ASP:OD2	2.20	0.90
12:E8:71:ASP:OD2	5:HF:150:ILE:CG2	2.18	0.90
3:B9:197:PHE:CE2	21:sP:140:LEU:CD1	2.53	0.90
5:D9:35:ASN:O	29:D9:1002:PEB:HMD1	1.72	0.90
10:dD:325:VAL:O	10:dD:329:MET:N	2.03	0.90
7:ZJ:19:VAL:HG13	7:ZJ:23:ASP:OD1	1.70	0.90
6:uJ:14:ALA:O	16:xJ:74:GLN:HA	1.72	0.90
20:EP:14:GLU:HG3	25:YP:509:PHE:HE1	1.34	0.90
21:sP:19:LEU:HD13	20:tP:97:ILE:HD12	1.54	0.90
4:C1:113:ALA:HB3	5:F1:77:ARG:HB2	1.53	0.90
6:j1:5:ILE:CB	7:k1:3:ASP:OD2	2.18	0.90
6:O2:69:PRO:CG	13:k6:232:PHE:CD2	2.53	0.90
7:P2:114:LYS:HZ1	6:W7:53:LYS:HB2	1.34	0.90
7:I8:91:ARG:CZ	28:4P:118:LEU:O	2.18	0.90
3:B9:121:ASN:HD22	26:ZP:52:GLY:N	1.68	0.90
5:J9:35:ASN:O	29:J9:1002:PEB:HMD1	1.72	0.90
17:BB:182:GLU:CD	29:BB:301:PEB:HMD3	1.97	0.90
6:BD:9:VAL:HG13	7:CD:95:TYR:CD1	2.06	0.90
18:ME:215:THR:HB	18:ME:218:GLY:HA2	1.51	0.90
6:AJ:68:ASN:HB2	6:AJ:71:GLU:HG3	1.51	0.90
7:NM:25:GLN:NE2	21:oP:144:ASP:HA	1.87	0.90
2:A1:103:CYS:HB3	30:A1:305:PUB:HAA2	0.90	0.90
6:B4:9:VAL:HG13	7:C4:95:TYR:CD1	2.06	0.90
7:G4:76:ASN:HD21	6:J4:113:ALA:HA	1.33	0.90
7:I8:116:THR:HG21	15:bM:403:PRO:HG3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a9:52:VAL:HG21	7:a9:87:GLU:CB	2.02	0.90
6:IC:14:ALA:HB1	18:MC:51:PRO:CD	2.02	0.90
7:GD:39:ASP:OD2	7:GD:153:PHE:CG	2.25	0.90
6:HD:137:ARG:HH12	29:HD:202:PEB:CHB	1.83	0.90
5:FF:151:GLY:CA	29:FF:1002:PEB:O2B	2.18	0.90
6:IJ:72:ALA:CB	29:IJ:201:PEB:CMA	2.50	0.90
7:NJ:114:LYS:HG3	7:NJ:175:ALA:O	1.71	0.90
6:kJ:114:ARG:HH22	16:xJ:210:ILE:HD11	1.36	0.90
5:NK:19:LEU:HD13	5:NK:23:GLN:NE2	1.86	0.90
7:TL:19:VAL:HG13	7:TL:23:ASP:OD1	1.70	0.90
6:UM:53:LYS:C	14:MQ:100:THR:CG2	2.44	0.90
14:MN:102:LYS:C	14:MN:103:ARG:HD2	1.97	0.90
7:FQ:50:CYS:HG	29:FQ:203:PEB:H2A1	1.01	0.90
5:J1:20:SER:H	5:J1:23:GLN:NE2	1.70	0.90
8:e2:290:ARG:NH2	5:F7:15:ARG:NH1	2.18	0.90
6:W2:97:LEU:CD2	6:W2:155:TYR:CD2	2.52	0.90
12:E8:173:PHE:CE2	6:ZF:83:TYR:CE2	2.59	0.90
5:L9:35:ASN:O	29:L9:1002:PEB:HMD1	1.71	0.90
7:HB:85:ASP:OD1	29:HB:201:PEB:H1D1	1.01	0.90
10:dD:283:ARG:CG	7:TI:148:GLU:CD	2.44	0.90
18:ME:301:ASN:ND2	6:gL:53:LYS:HZ3	1.69	0.90
6:mJ:99:VAL:HA	7:nJ:5:PHE:HB3	1.54	0.90
7:HL:5:PHE:CE2	7:HL:31:ILE:CD1	2.53	0.90
7:bL:19:VAL:HG13	7:bL:23:ASP:OD1	1.70	0.90
16:wL:168:VAL:HG13	16:xL:47:ARG:NH1	1.87	0.90
6:OM:54:GLU:OE1	29:OM:202:PEB:CMC	2.20	0.90
6:WM:54:GLU:OE1	29:WM:202:PEB:CMC	2.20	0.90
6:IN:38:LEU:CG	7:JN:24:LEU:HD23	2.02	0.90
6:AO:42:GLU:CG	7:BO:24:LEU:CD1	2.50	0.90
20:cP:23:LEU:HD22	21:hP:38:VAL:HG13	1.52	0.90
6:SR:57:ASP:OD1	6:SR:83:TYR:OH	1.89	0.90
5:H1:152:ASP:HB2	11:D8:219:TYR:CE2	2.05	0.89
7:M4:51:MET:CE	7:M4:137:GLN:HG3	2.02	0.89
5:D7:35:ASN:O	29:D7:1002:PEB:HMD1	1.72	0.89
7:I8:91:ARG:CZ	28:4P:118:LEU:C	2.32	0.89
5:F9:17:GLU:HG3	8:eR:301:PHE:HE2	1.34	0.89
6:FD:49:GLU:OE1	6:FD:49:GLU:N	2.05	0.89
18:ME:217:SER:HA	18:ME:223:ARG:CG	2.02	0.89
18:ME:242:LYS:HD3	29:SI:202:PEB:CBB	2.00	0.89
7:FJ:144:ASN:HD21	7:FJ:153:PHE:HE2	0.96	0.89
7:NJ:19:VAL:HG13	7:NJ:23:ASP:OD1	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jK:5:ILE:CB	7:kK:3:ASP:OD2	2.18	0.89
6:sL:68:ASN:HB2	6:sL:71:GLU:HG3	1.51	0.89
15:bM:341:ALA:HB3	20:mP:68:PRO:HG2	1.52	0.89
6:fM:54:GLU:OE1	29:fM:202:PEB:CMC	2.21	0.89
26:ZP:122:LYS:HA	26:ZP:125:ASP:OD2	1.72	0.89
29:eR:401:PEB:H2A1	7:PR:59:MET:HE1	1.54	0.89
29:e2:401:PEB:HHB1	29:e2:401:PEB:HBC2	1.53	0.89
6:O2:141:PRO:O	6:lB:67:LYS:HE2	1.72	0.89
7:D3:38:LEU:C	29:D3:202:PEB:CMD	2.39	0.89
6:F4:25:GLU:OE2	6:H4:33:ARG:HG3	1.73	0.89
7:l5:79:MET:CG	15:bB:229:LEU:HG	2.03	0.89
7:a7:52:VAL:HG21	7:a7:87:GLU:CB	2.02	0.89
7:K8:74:TYR:HD1	7:LO:171:ARG:NH2	1.70	0.89
6:aB:54:GLU:OE1	29:aB:202:PEB:CMC	2.20	0.89
6:DD:49:GLU:OE1	6:DD:49:GLU:N	2.05	0.89
7:ID:100:GLY:O	7:ID:101:ASP:OD1	1.90	0.89
18:ME:229:GLU:OE2	18:ME:242:LYS:NZ	2.04	0.89
7:HG:54:ASP:HB2	29:HG:203:PEB:HBA2	1.50	0.89
6:AJ:137:ARG:NH2	29:AJ:202:PEB:NB	2.20	0.89
7:RJ:19:VAL:HG13	7:RJ:23:ASP:OD1	1.70	0.89
7:TJ:19:VAL:HG13	7:TJ:23:ASP:OD1	1.70	0.89
7:JL:19:VAL:HG13	7:JL:23:ASP:OD1	1.70	0.89
6:YL:147:GLN:HE22	29:bL:202:PEB:HMC1	1.36	0.89
16:wL:86:CYS:CB	30:wL:305:PUB:CAA	2.49	0.89
6:MR:49:GLU:O	6:MR:53:LYS:HG3	1.71	0.89
6:WR:97:LEU:CD2	6:WR:155:TYR:CD2	2.52	0.89
10:d4:335:LEU:HD11	10:dD:331:GLN:HB3	1.52	0.89
7:G4:39:ASP:OD2	7:G4:153:PHE:CG	2.25	0.89
7:G4:76:ASN:HD22	6:J4:113:ALA:HB2	1.31	0.89
7:NB:25:GLN:HB2	21:MP:147:LYS:CG	1.97	0.89
6:WB:54:GLU:OE1	29:WB:202:PEB:CMC	2.20	0.89
5:DF:151:GLY:CA	29:DF:1002:PEB:O2B	2.18	0.89
3:BK:207:ARG:NH1	3:BK:212:GLN:N	2.20	0.89
7:gK:171:ARG:HH22	14:MN:97:PHE:HE1	1.05	0.89
6:AL:139:CYS:HB2	29:AL:202:PEB:CAA	2.01	0.89
6:IL:72:ALA:CB	29:IL:201:PEB:CMA	2.50	0.89
7:NL:114:LYS:HG3	7:NL:175:ALA:O	1.71	0.89
7:RL:113:LEU:HD21	7:RL:176:ILE:CG2	2.01	0.89
20:mP:5:THR:OG1	21:qP:3:ASP:OD1	1.90	0.89
29:eR:401:PEB:HHB1	29:eR:401:PEB:HBC2	1.53	0.89
4:M1:94:MET:CG	4:M1:111:LEU:HD11	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e2:77:PHE:CE2	8:e2:84:LYS:NZ	2.39	0.89
6:F4:29:GLY:HA2	6:F4:32:GLN:NE2	1.88	0.89
5:D7:39:ASP:OD1	29:D7:1002:PEB:CMD	2.20	0.89
5:L7:35:ASN:O	29:L7:1002:PEB:HMD1	1.72	0.89
3:B9:170:ARG:HA	26:ZP:88:THR:CG2	2.01	0.89
5:F9:35:ASN:O	29:F9:1002:PEB:HMD1	1.72	0.89
5:N9:35:ASN:O	29:N9:1002:PEB:HMD1	1.72	0.89
6:MB:54:GLU:HG2	6:MB:133:TYR:HE2	1.38	0.89
10:dD:280:SER:HB3	6:WI:69:PRO:C	1.96	0.89
6:hF:6:THR:HG22	7:iF:1:MET:HG3	1.54	0.89
14:MG:235:GLU:OE2	14:MG:239:LYS:NZ	2.05	0.89
7:JJ:19:VAL:HG13	7:JJ:23:ASP:OD1	1.70	0.89
4:MK:94:MET:CG	4:MK:111:LEU:HD11	2.03	0.89
7:VK:159:THR:OG1	14:MN:103:ARG:CB	2.19	0.89
7:LL:29:SER:HG	28:bP:231:ILE:HD12	1.32	0.89
7:jL:19:VAL:HG13	7:jL:23:ASP:OD1	1.70	0.89
16:xL:102:ALA:CB	16:xL:105:ARG:HD2	2.02	0.89
6:KM:54:GLU:OE1	29:KM:202:PEB:CMC	2.20	0.89
7:NM:129:ARG:CG	28:4P:121:HIS:CG	2.54	0.89
7:FQ:58:GLY:CA	29:FQ:203:PEB:CMD	2.51	0.89
6:SR:139:CYS:SG	6:SR:142:ARG:CG	2.59	0.89
6:UR:97:LEU:CD2	6:UR:155:TYR:CD2	2.52	0.89
6:WR:142:ARG:HD2	29:WR:202:PEB:CAA	2.02	0.89
7:T1:150:LYS:CA	11:D8:260:THR:CG2	2.49	0.89
7:G4:58:GLY:CA	29:G4:203:PEB:C3D	2.50	0.89
5:J7:39:ASP:OD1	29:J7:1002:PEB:CMD	2.19	0.89
6:IA:30:ASN:O	6:IA:34:SER:OG	1.90	0.89
6:IA:38:LEU:CG	7:JA:24:LEU:HD23	2.02	0.89
7:cI:1:MET:CE	7:cI:103:SER:O	2.03	0.89
6:MJ:33:ARG:HH11	6:MJ:147:GLN:HE22	1.12	0.89
6:iJ:161:ASN:O	16:wJ:92:LYS:NZ	2.05	0.89
19:zJ:363:ARG:CD	21:nP:62:TYR:HB3	1.99	0.89
5:JK:17:GLU:CA	15:bM:335:ILE:CD1	2.50	0.89
7:MO:87:GLU:OE2	7:MO:91:ARG:CD	2.20	0.89
6:OR:97:LEU:CD2	6:OR:155:TYR:CD2	2.52	0.89
29:e2:401:PEB:CMA	7:P2:59:MET:HE1	2.02	0.89
12:E5:209:ARG:CD	6:II:70:GLY:HA2	2.00	0.89
5:J9:39:ASP:OD1	29:J9:1002:PEB:CMD	2.20	0.89
6:W9:53:LYS:CB	7:PR:114:LYS:NZ	2.36	0.89
18:MC:215:THR:HB	18:MC:218:GLY:HA2	1.51	0.89
10:dD:285:VAL:CB	29:TI:202:PEB:O2B	2.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GD:136:ALA:HB3	29:GD:203:PEB:HBC2	1.54	0.89
6:HD:137:ARG:NH2	29:HD:202:PEB:NA	2.19	0.89
29:KD:202:PEB:CBD	6:LD:33:ARG:CZ	2.50	0.89
18:ME:233:ALA:HB3	18:ME:236:ASP:CG	1.98	0.89
5:JK:20:SER:H	5:JK:23:GLN:NE2	1.70	0.89
6:AL:137:ARG:HH21	29:AL:202:PEB:C4B	1.83	0.89
6:ML:33:ARG:HH12	6:ML:147:GLN:HE21	0.95	0.89
7:LN:20:GLY:O	7:LN:24:LEU:CD1	2.21	0.89
6:QR:37:ARG:HH11	6:QR:97:LEU:C	1.79	0.89
3:B1:205:ARG:HH21	20:JP:52:LYS:CE	1.84	0.89
5:L1:68:GLN:NE2	15:bB:347:ALA:HB2	1.88	0.89
6:D4:49:GLU:OE1	6:D4:49:GLU:N	2.05	0.89
7:I5:30:PHE:CZ	28:bP:132:PRO:CD	2.56	0.89
3:B7:204:ARG:NH1	31:TP:1001:CYC:O2D	2.06	0.89
5:F9:39:ASP:OD1	29:F9:1002:PEB:CMD	2.19	0.89
6:KB:54:GLU:HG2	6:KB:133:TYR:HE2	1.38	0.89
7:PB:61:CYS:HB3	29:PB:202:PEB:HBD2	1.51	0.89
6:YB:54:GLU:OE1	29:YB:203:PEB:CMC	2.20	0.89
6:IE:14:ALA:CB	18:ME:51:PRO:CD	2.50	0.89
18:ME:229:GLU:CG	18:ME:242:LYS:HZ1	1.76	0.89
7:LG:50:CYS:SG	29:LG:203:PEB:CBA	2.61	0.89
6:GJ:72:ALA:HB3	29:GJ:201:PEB:HMA2	0.89	0.89
7:RJ:113:LEU:HD21	7:RJ:176:ILE:HG21	1.54	0.89
5:DK:46:SER:O	4:MK:159:ASN:ND2	2.06	0.89
16:wL:102:ALA:CB	16:wL:105:ARG:HD2	2.01	0.89
6:WM:54:GLU:HG2	6:WM:133:TYR:HE2	1.38	0.89
8:eR:239:LYS:HZ1	7:PR:120:LEU:HD21	1.37	0.89
6:MR:17:ARG:HH21	6:OR:2:LYS:HZ1	1.15	0.89
6:OR:37:ARG:HH12	6:OR:100:GLY:CA	1.80	0.89
6:M2:17:ARG:HH21	6:O2:2:LYS:HZ1	1.18	0.89
7:P2:114:LYS:NZ	6:W7:53:LYS:HB2	1.87	0.89
6:Q2:37:ARG:HH11	6:Q2:97:LEU:C	1.79	0.89
6:H4:49:GLU:OE1	6:H4:49:GLU:N	2.05	0.89
12:E5:188:ALA:CB	6:bI:64:ALA:HB1	1.99	0.89
6:WB:54:GLU:HG2	6:WB:133:TYR:HE2	1.38	0.89
6:BD:78:LYS:HA	6:BD:81:LYS:HD2	1.55	0.89
6:WI:25:GLU:HG3	6:ZI:33:ARG:HG3	1.54	0.89
6:AL:147:GLN:NE2	29:AL:203:PEB:CMC	2.35	0.89
6:ML:33:ARG:HH12	6:ML:147:GLN:NE2	1.69	0.89
6:SL:69:PRO:CG	26:ZP:132:LYS:NZ	2.35	0.89
15:bM:333:ARG:HB2	15:bM:333:ARG:HH11	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:MM:54:GLU:HG2	6:MM:133:TYR:HE2	1.38	0.89
6:UM:54:GLU:OE1	29:MQ:401:PEB:CMC	2.20	0.89
6:M2:17:ARG:HH21	6:O2:2:LYS:HZ2	1.18	0.89
6:B4:49:GLU:OE1	6:B4:49:GLU:N	2.05	0.89
6:L4:49:GLU:OE1	6:L4:49:GLU:N	2.05	0.89
12:E5:182:ASN:CG	6:bI:80:ASN:ND2	2.31	0.89
4:K7:52:ILE:HD11	20:TP:68:PRO:HG2	1.51	0.89
3:B9:197:PHE:CG	21:sP:50:THR:OG1	2.26	0.89
5:D9:39:ASP:OD1	29:D9:1002:PEB:CMD	2.20	0.89
6:OB:54:GLU:HG2	6:OB:133:TYR:HE2	1.38	0.89
7:ID:114:LYS:HE2	7:ID:177:SER:OXT	1.72	0.89
7:MD:124:THR:HG1	6:UI:69:PRO:HB3	1.34	0.89
3:BI:204:ARG:NE	31:PP:1001:CYC:O1D	2.06	0.89
7:HJ:5:PHE:HE2	7:HJ:31:ILE:HD11	1.10	0.89
19:zJ:332:LEU:HD23	20:pP:67:SER:HB2	1.53	0.89
7:NL:114:LYS:HG2	7:NL:176:ILE:HA	1.52	0.89
6:UM:54:GLU:HG2	6:UM:133:TYR:HE2	1.38	0.89
6:QR:97:LEU:CD2	6:QR:155:TYR:CD2	2.52	0.89
7:M3:87:GLU:OE2	7:M3:91:ARG:CD	2.20	0.89
10:d4:331:GLN:HG2	10:dD:335:LEU:HD13	1.48	0.89
5:J7:35:ASN:O	29:J7:1002:PEB:HMD1	1.72	0.89
5:L7:39:ASP:OD1	29:L7:1002:PEB:CMD	2.19	0.89
7:a7:26:ALA:CB	12:E8:40:VAL:C	2.44	0.89
7:I8:79:MET:CE	15:bM:229:LEU:O	2.21	0.89
6:OB:54:GLU:OE1	29:OB:202:PEB:CMC	2.20	0.89
7:BC:51:MET:CE	7:BC:137:GLN:CB	2.26	0.89
6:HD:49:GLU:OE1	6:HD:49:GLU:N	2.05	0.89
7:FG:137:GLN:HE21	29:FG:203:PEB:HHA1	1.33	0.89
5:DI:151:GLY:CA	29:DI:1002:PEB:O2B	2.18	0.89
5:LI:68:GLN:NE2	27:aP:110:SER:CB	2.35	0.89
7:HQ:141:PHE:CZ	29:HQ:203:PEB:C3A	2.56	0.89
29:C4:202:PEB:C4D	6:D4:33:ARG:NH1	2.33	0.88
7:I5:7:ARG:HH22	28:bP:88:LEU:CD2	1.77	0.88
12:E5:183:TYR:CD2	6:bI:83:TYR:HD2	1.61	0.88
6:Q9:69:PRO:HG3	13:kH:102:TYR:OH	1.71	0.88
17:BB:181:THR:CB	29:BB:301:PEB:CBA	2.17	0.88
6:KB:54:GLU:OE1	29:KB:202:PEB:CMC	2.20	0.88
7:KD:77:ARG:HH21	7:KD:78:ARG:HG3	1.38	0.88
6:UJ:70:GLY:CA	6:UJ:74:GLU:OE2	2.21	0.88
16:xJ:102:ALA:CB	16:xJ:105:ARG:HD2	2.02	0.88
6:AL:68:ASN:HB2	6:AL:71:GLU:CG	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:137:ARG:HH22	29:AL:202:PEB:C4B	1.82	0.88
6:AL:137:ARG:HH12	29:AL:202:PEB:HNA	1.18	0.88
6:mL:99:VAL:HA	7:nL:5:PHE:HB3	1.54	0.88
20:vP:31:LEU:HB3	27:3P:152:ALA:HB1	1.55	0.88
23:yP:118:LEU:HD23	23:yP:168:LEU:HD21	1.56	0.88
3:B1:204:ARG:HB3	5:L1:125:SER:HG	1.36	0.88
4:C1:3:THR:HB	4:C1:4:PRO:CD	2.04	0.88
7:N3:91:ARG:NH2	9:O3:377:ALA:HB3	1.88	0.88
6:H4:137:ARG:NH2	29:H4:202:PEB:NA	2.19	0.88
29:L5:203:PEB:HBD1	13:k6:237:ILE:HG22	1.55	0.88
5:F7:39:ASP:OD1	29:F7:1002:PEB:CMD	2.20	0.88
29:I8:201:PEB:HMC3	15:bM:403:PRO:HG2	1.53	0.88
7:C8:161:LEU:CD1	29:C8:202:PEB:HBA1	2.03	0.88
12:E8:162:ASN:HD21	29:kF:203:PEB:C1B	1.78	0.88
7:JB:147:THR:OG1	29:JB:203:PEB:CGB	2.21	0.88
6:UB:54:GLU:OE1	29:UB:202:PEB:CMC	2.20	0.88
6:aB:54:GLU:HG2	6:aB:133:TYR:HE2	1.38	0.88
6:HD:137:ARG:NH1	29:HD:202:PEB:HNC	1.72	0.88
18:ME:65:LYS:O	18:ME:68:VAL:N	2.07	0.88
18:ME:286:GLN:HA	5:DI:18:PHE:HB2	1.55	0.88
29:IJ:201:PEB:HAC2	16:xJ:251:TYR:OH	1.72	0.88
16:wJ:102:ALA:CB	16:wJ:105:ARG:HD2	2.02	0.88
7:MO:107:ASP:OD1	7:MO:108:ARG:N	2.06	0.88
5:J1:18:PHE:H	15:bB:335:ILE:CD1	1.84	0.88
7:T1:150:LYS:CB	11:D8:260:THR:HG22	1.78	0.88
7:V2:46:SER:CB	6:W2:157:ASP:OD2	2.20	0.88
7:I5:1:MET:HE2	7:I5:1:MET:C	1.98	0.88
7:NB:25:GLN:HG3	21:MP:147:LYS:CD	2.04	0.88
7:ED:77:ARG:HH21	7:ED:78:ARG:HG3	1.38	0.88
7:FG:58:GLY:HA2	29:FG:203:PEB:CAD	2.03	0.88
4:EI:120:ARG:HD3	4:II:116:GLU:CD	1.98	0.88
6:AJ:68:ASN:HB2	6:AJ:71:GLU:CG	2.03	0.88
6:AJ:137:ARG:HH12	29:AJ:202:PEB:HNA	1.18	0.88
7:nJ:108:ARG:CG	16:xJ:197:LEU:HD23	2.02	0.88
6:YL:33:ARG:HH22	29:bL:202:PEB:C4D	1.85	0.88
29:IL:202:PEB:CMC	6:mL:147:GLN:OE1	2.21	0.88
17:BM:81:ALA:HB1	7:RM:115:GLU:CD	1.97	0.88
27:aP:270:ARG:HG2	27:aP:270:ARG:HH11	1.37	0.88
6:AQ:25:GLU:HG2	6:CQ:33:ARG:HG3	1.55	0.88
7:T2:123:PRO:HA	6:U7:69:PRO:CB	2.04	0.88
6:U2:17:ARG:NH2	6:W2:2:LYS:NZ	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:bB:319:VAL:CG2	20:KP:79:ALA:CB	2.52	0.88
17:BB:80:LYS:NZ	7:DB:115:GLU:OE2	2.06	0.88
18:MC:200:ARG:HH11	18:MC:237:PHE:HD2	1.02	0.88
6:BD:49:GLU:OE1	6:BD:49:GLU:N	2.05	0.88
6:sJ:68:ASN:HB2	6:sJ:71:GLU:CG	2.03	0.88
6:UL:70:GLY:CA	6:UL:74:GLU:OE2	2.21	0.88
6:MM:54:GLU:OE1	29:MM:202:PEB:CMC	2.20	0.88
6:WM:33:ARG:HH12	6:WM:147:GLN:HE21	1.17	0.88
7:DQ:137:GLN:HE22	29:DQ:203:PEB:HHA1	0.98	0.88
6:A3:42:GLU:CG	7:B3:24:LEU:CD1	2.50	0.88
6:B4:78:LYS:HA	6:B4:81:LYS:HD2	1.55	0.88
7:I8:13:ASP:OD1	7:I8:17:ALA:CB	2.20	0.88
7:L8:79:MET:HE3	13:kH:233:VAL:HG23	1.51	0.88
3:B9:209:GLN:HE22	21:sP:128:GLN:HE21	1.13	0.88
6:MB:54:GLU:OE1	29:MB:202:PEB:CMC	2.20	0.88
18:MC:312:LEU:HD21	7:vJ:68:SER:HA	1.50	0.88
5:JI:22:THR:HB	27:aP:92:PRO:CG	2.04	0.88
5:LI:68:GLN:HE22	27:aP:110:SER:CB	1.86	0.88
6:sJ:6:THR:HB	16:xJ:81:VAL:HG11	1.53	0.88
16:wL:179:ALA:CB	16:xL:37:THR:HG1	1.73	0.88
19:zL:363:ARG:HG2	21:LP:67:ARG:HH12	1.34	0.88
7:gM:61:CYS:HB2	29:gM:203:PEB:CAD	2.03	0.88
7:BQ:141:PHE:CE2	29:BQ:203:PEB:CMB	2.57	0.88
7:LQ:133:ILE:HG23	29:LQ:202:PEB:HBC2	1.55	0.88
7:K4:77:ARG:HH21	7:K4:78:ARG:HG3	1.38	0.88
7:A8:40:ALA:HB2	7:A8:161:LEU:HD13	1.56	0.88
7:V9:136:ALA:HB2	13:kH:161:ILE:CG2	2.03	0.88
7:LA:20:GLY:O	7:LA:24:LEU:CD1	2.21	0.88
6:AJ:137:ARG:HH22	29:AJ:202:PEB:C4B	1.82	0.88
29:IJ:202:PEB:CMC	6:mJ:147:GLN:OE1	2.21	0.88
6:AL:137:ARG:NH2	29:AL:202:PEB:NB	2.20	0.88
19:zL:363:ARG:CD	21:LP:62:TYR:O	2.22	0.88
17:BM:80:LYS:NZ	7:DM:115:GLU:OE2	2.06	0.88
6:IN:30:ASN:O	6:IN:34:SER:OG	1.90	0.88
7:NO:87:GLU:OE2	7:NO:91:ARG:CD	2.22	0.88
21:FP:17:LYS:O	20:EP:94:TYR:OH	1.92	0.88
7:E4:77:ARG:HH21	7:E4:78:ARG:HG3	1.38	0.88
5:F9:72:MEN:O	5:F9:78:ARG:HD2	1.73	0.88
6:hB:54:GLU:HG3	6:hB:133:TYR:HE2	1.38	0.88
6:OF:6:THR:HG23	7:PF:1:MET:HE2	1.55	0.88
7:HG:50:CYS:O	29:HG:203:PEB:HAA1	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AJ:147:GLN:NE2	29:AJ:203:PEB:CMC	2.35	0.88
6:OK:5:ILE:HG21	7:PK:3:ASP:OD2	1.73	0.88
19:zL:363:ARG:CA	21:LP:62:TYR:CD2	2.55	0.88
19:zL:363:ARG:CZ	21:LP:62:TYR:CD1	2.56	0.88
6:GM:54:GLU:HG3	6:GM:133:TYR:HE2	1.38	0.88
7:JM:147:THR:OG1	29:JM:203:PEB:O1B	1.92	0.88
7:NM:62:GLU:OE1	28:4P:124:ASN:ND2	2.06	0.88
6:OM:54:GLU:HG2	6:OM:133:TYR:HE2	1.38	0.88
6:IO:140:VAL:HG11	6:IO:146:ALA:CA	1.97	0.88
6:M2:142:ARG:NH1	29:M2:202:PEB:C3B	2.30	0.88
7:gB:61:CYS:HB2	29:gB:203:PEB:CAD	2.03	0.88
18:MC:65:LYS:HD2	18:MC:98:LEU:CD2	2.03	0.88
6:JD:115:GLU:HA	6:JD:118:ARG:HE	1.39	0.88
6:LD:18:PHE:HE1	7:MD:91:ARG:NE	1.71	0.88
6:OJ:68:ASN:HB2	6:OJ:71:GLU:CG	2.03	0.88
2:AK:103:CYS:HB3	30:AK:305:PUB:HAA2	0.90	0.88
6:GL:72:ALA:HB3	29:GL:201:PEB:HMA2	0.89	0.88
6:SL:33:ARG:HD3	6:SL:147:GLN:NE2	1.87	0.88
6:sL:68:ASN:HB2	6:sL:71:GLU:CG	2.03	0.88
7:NM:25:GLN:HE21	21:oP:144:ASP:HA	1.38	0.88
25:YP:77:VAL:HB	25:YP:133:LYS:HE2	1.55	0.88
6:O2:142:ARG:HE	6:lB:76:GLN:CG	1.86	0.88
7:I4:100:GLY:O	7:I4:101:ASP:OD1	1.90	0.88
1:X9:75:SER:N	6:S9:107:GLU:OE2	2.07	0.88
5:H9:39:ASP:OD1	29:H9:1002:PEB:CMD	2.20	0.88
6:HD:34:SER:HB2	6:HD:37:ARG:NH2	1.89	0.88
5:LF:68:GLN:NE2	27:3P:110:SER:CB	2.37	0.88
7:BJ:19:VAL:HG13	7:BJ:23:ASP:OD1	1.70	0.88
6:SJ:51:VAL:CG2	6:SJ:52:VAL:H	1.86	0.88
6:UJ:70:GLY:CA	6:UJ:74:GLU:CD	2.43	0.88
29:tJ:201:PEB:CAD	16:xJ:220:TYR:CE2	2.56	0.88
6:KM:54:GLU:HG2	6:KM:133:TYR:HE2	1.38	0.88
14:MQ:102:LYS:NZ	14:MQ:104:SER:O	2.06	0.88
6:QR:144:MET:HB2	6:QR:148:ALA:HB3	1.54	0.88
6:O2:79:ILE:HG21	13:k6:245:VAL:HG13	1.56	0.88
6:O2:142:ARG:HA	6:lB:79:ILE:HD12	1.54	0.88
10:d4:298:TYR:CE2	5:FF:17:GLU:HB2	2.08	0.88
6:J4:49:GLU:OE1	6:J4:49:GLU:N	2.05	0.88
6:L4:18:PHE:HE1	7:M4:91:ARG:NE	1.71	0.88
12:E5:72:MET:HB3	5:HI:151:GLY:O	1.74	0.88
6:EA:1:MET:HG2	14:MA:196:ASN:HD21	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:57:MET:O	18:MC:59:GLU:CD	2.17	0.88
6:FD:142:ARG:NH1	29:FD:202:PEB:NB	2.22	0.88
18:ME:229:GLU:HG3	18:ME:242:LYS:HZ3	0.73	0.88
18:ME:304:TRP:HE3	18:ME:305:ALA:N	1.71	0.88
6:MJ:33:ARG:HB3	6:MJ:33:ARG:HH21	1.35	0.88
6:oJ:33:ARG:HH22	7:rJ:38:LEU:HD13	1.37	0.88
6:ML:140:VAL:HG21	6:ML:146:ALA:CB	2.03	0.88
6:YL:147:GLN:OE1	29:bL:202:PEB:HMC2	1.73	0.88
6:kL:147:GLN:OE1	29:nL:202:PEB:CMC	2.22	0.88
7:JM:147:THR:OG1	29:JM:203:PEB:CGB	2.21	0.88
6:aM:54:GLU:OE1	29:aM:202:PEB:CMC	2.20	0.88
8:e2:293:THR:CG2	7:T2:135:LYS:HZ3	1.84	0.87
10:d4:237:LEU:HD11	7:E4:2:LEU:CG	2.03	0.87
7:I5:6:SER:HG	7:I5:26:ALA:HB1	0.81	0.87
7:I5:77:ARG:NH1	29:I5:201:PEB:CGB	2.36	0.87
7:A5:40:ALA:HB2	7:A5:161:LEU:HD13	1.56	0.87
11:D5:260:THR:HG23	7:TK:150:LYS:HB2	0.87	0.87
4:K9:50:ARG:NH1	3:BI:228:MET:HA	1.89	0.87
10:dD:285:VAL:CG1	29:TI:202:PEB:O1B	2.20	0.87
6:JD:142:ARG:NH1	29:JD:202:PEB:NB	2.22	0.87
6:hF:9:VAL:HG21	7:iF:1:MET:HE1	0.89	0.87
7:HG:141:PHE:CE2	29:HG:203:PEB:CMB	2.57	0.87
6:hI:9:VAL:HG21	7:iI:1:MET:HE1	0.89	0.87
6:AJ:139:CYS:HB2	29:AJ:202:PEB:CAA	2.01	0.87
6:MJ:33:ARG:CZ	6:MJ:147:GLN:NE2	2.36	0.87
29:pJ:202:PEB:CAD	6:qJ:33:ARG:CZ	2.52	0.87
19:zJ:332:LEU:HD23	20:pP:64:ASP:HA	1.56	0.87
19:zJ:332:LEU:CB	20:pP:67:SER:OG	2.21	0.87
7:RL:113:LEU:HD21	7:RL:176:ILE:HG21	1.54	0.87
6:CM:6:THR:HG22	7:DM:1:MET:SD	2.14	0.87
6:jM:33:ARG:NH1	6:jM:147:GLN:CD	2.32	0.87
20:GP:45:GLU:CD	21:dP:139:SER:HB2	1.99	0.87
21:QP:75:THR:HA	20:TP:115:MET:HE3	1.56	0.87
7:G4:58:GLY:HA3	29:G4:203:PEB:HMD2	1.56	0.87
6:J4:142:ARG:NH1	29:J4:202:PEB:NB	2.22	0.87
7:A5:161:LEU:HD12	29:A5:202:PEB:CBA	2.04	0.87
3:B7:121:ASN:HD22	26:2P:52:GLY:CA	1.82	0.87
3:B9:224:MET:O	3:B9:228:MET:CE	2.22	0.87
7:NB:22:SER:HA	21:MP:147:LYS:HA	1.57	0.87
18:MC:217:SER:HA	18:MC:223:ARG:CG	2.02	0.87
18:MC:223:ARG:HG3	18:MC:224:LYS:N	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:MD:54:ASP:OD2	29:MD:203:PEB:HHA1	1.74	0.87
7:FG:47:ASN:HB2	29:FG:203:PEB:CMA	2.04	0.87
6:OI:6:THR:HG23	7:PI:1:MET:HE2	1.55	0.87
6:GJ:73:GLY:HA2	6:GJ:78:LYS:HB2	1.57	0.87
7:TM:85:ASP:OD1	29:TM:201:PEB:H1D1	1.01	0.87
6:aM:54:GLU:HG2	6:aM:133:TYR:HE2	1.38	0.87
6:fM:54:GLU:HG2	6:fM:133:TYR:HE2	1.38	0.87
7:FN:108:ARG:HG2	14:MN:203:GLN:OE1	1.75	0.87
6:CO:48:HIS:CD2	6:CO:49:GLU:CD	2.53	0.87
8:eR:85:PRO:CB	7:NR:107:ASP:HB2	2.04	0.87
3:B1:17:VAL:HG11	31:N1:1001:CYC:NB	1.81	0.87
5:J1:18:PHE:CG	15:bB:335:ILE:HD11	2.05	0.87
5:J1:22:THR:CG2	15:bB:331:ALA:CB	2.30	0.87
6:U2:97:LEU:CD2	6:U2:155:TYR:CD2	2.52	0.87
7:B5:91:ARG:NH2	18:MC:293:MET:CB	2.38	0.87
7:I5:14:ALA:HB1	21:LP:124:GLY:H	1.40	0.87
6:HD:142:ARG:NH1	29:HD:202:PEB:NB	2.22	0.87
18:ME:65:LYS:HD2	18:ME:98:LEU:CD2	2.03	0.87
18:ME:284:LEU:HD11	5:DI:18:PHE:CE2	2.10	0.87
3:BI:204:ARG:HD3	31:PP:1001:CYC:CGD	2.03	0.87
7:nJ:108:ARG:NH2	16:xJ:196:SER:HA	1.88	0.87
6:SL:51:VAL:CG2	6:SL:52:VAL:H	1.86	0.87
19:zL:329:ILE:CD1	20:NP:59:PHE:CD2	2.57	0.87
19:zL:363:ARG:CB	21:LP:62:TYR:CE1	2.50	0.87
20:rP:44:THR:HG23	21:wP:18:TYR:CD2	2.10	0.87
25:1P:77:VAL:HB	25:1P:133:LYS:HE2	1.55	0.87
7:HQ:141:PHE:CZ	29:HQ:203:PEB:HMA3	2.09	0.87
6:Q2:144:MET:HB2	6:Q2:148:ALA:HB3	1.54	0.87
6:C3:48:HIS:CD2	6:C3:49:GLU:CD	2.53	0.87
7:N3:87:GLU:OE2	7:N3:91:ARG:CD	2.22	0.87
6:D4:115:GLU:HA	6:D4:118:ARG:HE	1.39	0.87
7:I4:102:ALA:HB1	7:I4:105:LEU:CG	2.04	0.87
7:L5:116:THR:HG22	13:k6:284:LEU:CD2	2.05	0.87
3:B7:172:LYS:HB3	26:2P:86:PRO:HD2	1.55	0.87
17:BB:81:ALA:HB1	7:RB:115:GLU:CD	1.97	0.87
6:CB:6:THR:HG22	7:DB:1:MET:SD	2.14	0.87
7:TB:85:ASP:OD1	29:TB:201:PEB:H1D1	1.01	0.87
6:fB:54:GLU:OE1	29:fB:202:PEB:CMC	2.21	0.87
10:dD:282:LYS:HE2	6:WI:74:GLU:OE2	1.74	0.87
6:LD:49:GLU:OE1	6:LD:49:GLU:N	2.05	0.87
7:LG:141:PHE:HZ	29:LG:203:PEB:CMA	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:217:ALA:HB3	19:zJ:218:PRO:HD2	1.57	0.87
19:zJ:332:LEU:H	20:pP:67:SER:HG	1.23	0.87
6:QL:73:GLY:CA	6:QL:78:LYS:HD3	2.05	0.87
16:wL:170:GLU:O	16:xL:52:THR:HG21	1.73	0.87
7:XM:85:ASP:OD1	29:XM:201:PEB:H1D1	1.01	0.87
6:hM:54:GLU:HG3	6:hM:133:TYR:HE2	1.38	0.87
7:LQ:133:ILE:HA	29:LQ:202:PEB:CGC	2.04	0.87
6:UR:43:LYS:CG	6:UR:144:MET:HE3	2.04	0.87
4:M1:93:ARG:CG	5:N1:18:PHE:CD1	2.58	0.87
8:e2:147:PHE:C	8:e2:151:ASN:HD22	1.82	0.87
6:H4:137:ARG:NH1	29:H4:202:PEB:HNC	1.71	0.87
29:I5:201:PEB:HMC3	15:bB:403:PRO:HG2	1.56	0.87
7:C5:161:LEU:CD1	29:C5:202:PEB:HBA1	2.03	0.87
7:B8:108:ARG:HE	7:B8:108:ARG:HA	1.39	0.87
6:J8:18:PHE:CE2	7:K8:91:ARG:CG	2.58	0.87
6:J8:98:VAL:HG11	7:K8:19:VAL:HG11	1.56	0.87
1:X9:263:THR:HG21	5:D9:115:GLU:HG2	1.56	0.87
3:B9:224:MET:C	3:B9:228:MET:HE1	1.97	0.87
6:W9:53:LYS:HB2	7:PR:114:LYS:HZ1	1.39	0.87
7:PB:61:CYS:HB2	29:PB:202:PEB:CAD	2.04	0.87
6:kJ:147:GLN:OE1	29:nJ:202:PEB:CMC	2.22	0.87
19:zJ:212:PHE:HD1	19:zJ:216:TYR:HH	0.88	0.87
4:CK:3:THR:HB	4:CK:4:PRO:CD	2.04	0.87
23:WP:118:LEU:HD23	23:WP:168:LEU:HD21	1.56	0.87
25:YP:84:TYR:HB2	25:YP:149:LEU:HD12	1.55	0.87
25:1P:84:TYR:HB2	25:1P:149:LEU:HD12	1.55	0.87
6:UR:137:ARG:HG3	29:UR:202:PEB:CHC	2.04	0.87
3:B1:207:ARG:NH1	3:B1:212:GLN:N	2.20	0.87
6:F4:142:ARG:NH1	29:F4:202:PEB:NB	2.22	0.87
6:H4:137:ARG:HH22	29:H4:202:PEB:HNA	0.87	0.87
7:L8:116:THR:CG2	13:kH:284:LEU:HD23	2.05	0.87
29:L8:201:PEB:HBC1	13:kH:195:ARG:NH1	1.89	0.87
6:HD:137:ARG:HH22	29:HD:202:PEB:HNA	0.87	0.87
7:HG:50:CYS:C	29:HG:203:PEB:CAA	2.47	0.87
6:SJ:67:LYS:NZ	26:2P:121:VAL:HG13	1.89	0.87
6:YM:54:GLU:OE1	29:YM:203:PEB:CMC	2.20	0.87
21:qP:87:TYR:HE2	24:zP:87:LEU:HD22	1.38	0.87
20:vP:31:LEU:HB3	27:3P:152:ALA:CB	2.04	0.87
10:d4:131:CYS:O	7:E4:108:ARG:HA	1.75	0.87
7:I8:18:TYR:CE1	21:nP:128:GLN:NE2	2.41	0.87
6:Q9:69:PRO:HD3	13:kH:102:TYR:CE1	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LC:47:ASN:O	7:LC:51:MET:HG2	1.74	0.87
18:MC:65:LYS:O	18:MC:68:VAL:N	2.07	0.87
7:ID:1:MET:HE1	7:ID:108:ARG:HH12	1.36	0.87
7:BE:47:ASN:O	7:BE:51:MET:HG2	1.74	0.87
7:JE:47:ASN:O	7:JE:51:MET:HG2	1.74	0.87
6:IG:2:LYS:NZ	14:MG:254:VAL:N	2.22	0.87
6:hI:6:THR:HG22	7:iI:1:MET:HG3	1.54	0.87
16:wJ:86:CYS:SG	30:wJ:305:PUB:HAA1	2.14	0.87
21:fP:60:LEU:CD1	21:fP:72:MET:HE1	2.05	0.87
21:jP:18:TYR:OH	25:1P:153:ASP:O	1.93	0.87
7:BQ:141:PHE:CD2	29:BQ:203:PEB:CMB	2.57	0.87
6:IQ:18:PHE:HE2	14:MQ:265:LYS:CE	1.88	0.87
6:MR:44:LEU:HD22	6:MR:152:PHE:CE1	2.09	0.87
7:M3:107:ASP:OD1	7:M3:108:ARG:N	2.06	0.87
7:I4:1:MET:HE1	7:I4:108:ARG:HH12	1.36	0.87
13:k6:102:TYR:CE1	6:Q7:69:PRO:HD3	2.10	0.87
7:A8:161:LEU:HD12	29:A8:202:PEB:CBA	2.04	0.87
6:EA:37:ARG:HG2	6:EA:97:LEU:O	1.75	0.87
7:nJ:108:ARG:HG2	16:xJ:197:LEU:HD23	1.54	0.87
6:qJ:33:ARG:NH1	6:qJ:151:GLU:OE2	2.07	0.87
29:tJ:201:PEB:O1C	16:xJ:216:LEU:HD13	1.75	0.87
21:MP:69:GLY:HA3	28:bP:41:THR:HG22	1.54	0.87
7:FQ:136:ALA:HB3	29:FQ:203:PEB:CGC	2.04	0.87
10:d4:261:THR:CG2	6:WF:133:TYR:OH	2.22	0.87
7:G5:149:ARG:HE	7:k9:150:LYS:HZ2	0.90	0.87
7:G5:149:ARG:HH21	7:k9:150:LYS:HE3	1.38	0.87
7:A5:161:LEU:CD1	29:A5:202:PEB:CBA	2.53	0.87
4:K7:57:GLN:CD	5:JF:145:THR:OG1	2.17	0.87
15:bB:333:ARG:HB2	15:bB:333:ARG:HH21	1.35	0.87
6:CB:157:ASP:OD2	7:FB:149:ARG:NH2	2.08	0.87
7:kB:85:ASP:OD1	29:kB:201:PEB:C1D	2.23	0.87
7:DC:47:ASN:O	7:DC:51:MET:HG2	1.74	0.87
18:MC:308:ILE:HD13	7:vJ:64:PRO:HD3	1.43	0.87
10:dD:205:ASN:OD1	7:MD:116:THR:HG22	1.75	0.87
7:GD:75:THR:CG2	29:JD:201:PEB:CBD	2.26	0.87
6:SF:9:VAL:HG23	7:TF:1:MET:CE	2.04	0.87
6:SI:9:VAL:HG23	7:TI:1:MET:CE	2.04	0.87
7:IJ:16:ALA:HB2	7:tJ:69:PRO:HG2	1.57	0.87
6:AL:137:ARG:NH2	29:AL:202:PEB:C3B	2.38	0.87
19:zL:212:PHE:HD1	19:zL:216:TYR:HH	0.90	0.87
6:UM:142:ARG:HH11	14:MQ:111:ARG:NH2	1.71	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:gM:61:CYS:HB2	29:gM:203:PEB:CBD	2.05	0.87
6:h1:32:GLN:O	6:h1:33:ARG:NH2	2.08	0.86
7:D3:39:ASP:CA	29:D3:202:PEB:HMD2	2.05	0.86
10:d4:327:SER:CB	10:dD:338:GLU:HG3	2.05	0.86
6:D4:29:GLY:O	6:D4:32:GLN:OE1	1.93	0.86
7:G4:58:GLY:O	29:G4:203:PEB:HBD2	1.74	0.86
6:H4:142:ARG:NH1	29:H4:202:PEB:NB	2.22	0.86
7:I5:7:ARG:HH22	28:bP:88:LEU:HD21	1.33	0.86
7:C5:40:ALA:HB2	7:C5:161:LEU:HD13	1.56	0.86
7:iB:114:LYS:CE	7:iB:177:SER:O	2.23	0.86
4:EF:120:ARG:HD3	4:IF:116:GLU:CD	1.98	0.86
5:FF:15:ARG:HH21	5:FF:17:GLU:CD	1.83	0.86
3:BI:204:ARG:NH2	21:SP:61:LEU:CD2	2.38	0.86
6:QJ:73:GLY:CA	6:QJ:78:LYS:HD3	2.05	0.86
6:WJ:72:ALA:CB	29:WJ:202:PEB:CMA	2.53	0.86
16:wL:86:CYS:SG	30:wL:305:PUB:HAA1	2.14	0.86
17:BM:182:GLU:CD	29:BM:301:PEB:HMD3	1.97	0.86
28:bP:40:ARG:HH11	28:bP:40:ARG:CB	1.88	0.86
7:FQ:58:GLY:HA2	29:FQ:203:PEB:CMD	2.05	0.86
8:eR:87:MET:O	8:eR:91:GLU:HG2	1.74	0.86
6:O2:65:TYR:CA	13:k6:236:GLN:HE21	1.86	0.86
7:G4:58:GLY:HA3	29:G4:203:PEB:C3D	2.04	0.86
6:J4:115:GLU:HA	6:J4:118:ARG:HE	1.39	0.86
13:k6:61:ARG:NH1	7:V7:150:LYS:CB	2.32	0.86
1:X7:75:SER:N	6:S7:107:GLU:OE2	2.07	0.86
3:B9:225:VAL:HA	3:B9:228:MET:HE1	1.56	0.86
17:BB:181:THR:CG2	29:BB:301:PEB:HBA1	2.05	0.86
7:NB:25:GLN:HB3	21:MP:147:LYS:HG3	1.54	0.86
7:gB:61:CYS:HB2	29:gB:203:PEB:CBD	2.05	0.86
18:ME:240:ARG:HD3	6:SI:133:TYR:HE1	1.39	0.86
6:AJ:137:ARG:NH2	29:AJ:202:PEB:C3B	2.38	0.86
7:HJ:47:ASN:HD21	7:HJ:149:ARG:HH11	1.23	0.86
7:HL:47:ASN:HD21	7:HL:149:ARG:HH11	1.23	0.86
6:OL:68:ASN:HB2	6:OL:71:GLU:CG	2.03	0.86
17:BM:181:THR:CG2	29:BM:301:PEB:HBA1	2.05	0.86
7:PM:61:CYS:HB2	29:PM:202:PEB:CAD	2.04	0.86
21:IP:19:LEU:CD1	20:JP:97:ILE:HD12	2.05	0.86
6:MR:137:ARG:NH2	29:MR:202:PEB:CGB	2.37	0.86
7:VR:84:ARG:O	7:VR:87:GLU:HG2	1.75	0.86
3:B1:13:GLN:CB	3:B1:15:GLN:NE2	2.29	0.86
4:M1:93:ARG:CD	5:N1:18:PHE:CD1	2.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:111:LEU:CD2	31:M1:1001:CYC:HAB2	2.05	0.86
6:U1:5:ILE:HB	7:V1:3:ASP:OD2	1.75	0.86
29:e2:401:PEB:HHA1	7:P2:82:CYS:CA	2.06	0.86
7:V2:38:LEU:CD1	29:V2:202:PEB:C4D	2.54	0.86
7:D3:39:ASP:N	29:D3:202:PEB:HMD3	1.77	0.86
6:J5:99:VAL:CG2	7:K5:9:VAL:HG21	2.04	0.86
3:B7:197:PHE:CG	21:QP:50:THR:OG1	2.28	0.86
7:L8:108:ARG:NH1	4:I9:64:PRO:HD3	1.90	0.86
5:F9:15:ARG:NH1	7:a9:62:GLU:OE1	2.08	0.86
6:GB:152:PHE:CZ	6:GB:156:LEU:HD11	2.10	0.86
18:MC:45:PHE:HE2	18:MC:248:PRO:HB2	1.36	0.86
18:MC:232:MET:SD	6:SF:142:ARG:NH1	2.48	0.86
18:MC:305:ALA:C	18:MC:307:PRO:HD3	2.00	0.86
18:MC:312:LEU:CD1	18:MC:313:THR:HG23	2.06	0.86
6:DD:142:ARG:NH1	29:DD:202:PEB:NB	2.22	0.86
18:ME:241:ALA:CB	6:SI:133:TYR:HH	1.78	0.86
7:FG:141:PHE:CE2	29:FG:203:PEB:HMB3	2.09	0.86
13:kH:232:PHE:HD2	6:OR:69:PRO:HG2	1.33	0.86
7:HJ:72:MEN:HB2	29:zJ:501:PEB:OA	1.73	0.86
7:LJ:26:ALA:CB	28:4P:228:ILE:HG22	2.03	0.86
16:wL:183:LYS:CG	16:xL:40:VAL:HG11	1.89	0.86
6:QM:54:GLU:OE2	29:QM:204:PEB:C2C	2.23	0.86
7:iM:114:LYS:CE	7:iM:177:SER:O	2.23	0.86
21:FP:71:MEN:OD1	21:FP:122:PRO:CD	2.22	0.86
21:QP:64:ASP:OD1	21:QP:67:ARG:HD2	1.74	0.86
7:HQ:140:ALA:HB1	29:HQ:203:PEB:CBB	2.04	0.86
6:UR:43:LYS:CG	6:UR:144:MET:CE	2.53	0.86
7:XR:133:ILE:O	7:XR:137:GLN:HG3	1.76	0.86
2:A1:103:CYS:CB	30:A1:305:PUB:CAA	2.50	0.86
8:e2:125:ARG:CB	29:V2:201:PEB:O1C	2.23	0.86
7:P2:114:LYS:HZ2	6:W7:53:LYS:HG2	0.71	0.86
7:V2:84:ARG:HH11	7:V2:84:ARG:HG2	1.38	0.86
7:I5:32:ALA:O	7:I5:33:ASP:HB3	1.75	0.86
4:K7:52:ILE:HD13	20:TP:68:PRO:HG3	1.55	0.86
7:C8:77:ARG:HH12	29:C8:201:PEB:CGB	1.89	0.86
7:JB:147:THR:OG1	29:JB:203:PEB:O1B	1.92	0.86
6:UB:54:GLU:HG2	6:UB:133:TYR:HE2	1.38	0.86
7:BC:47:ASN:O	7:BC:51:MET:HG2	1.74	0.86
7:ID:174:ALA:CB	6:WI:76:GLN:HG2	2.06	0.86
18:ME:57:MET:O	18:ME:59:GLU:CD	2.17	0.86
7:FG:58:GLY:N	29:FG:203:PEB:CMD	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CI:33:ARG:CZ	29:NI:1002:PEB:HBD1	2.05	0.86
5:JK:11:GLN:HG2	15:bM:333:ARG:CZ	2.04	0.86
6:kL:108:TRP:O	7:tL:75:THR:OG1	1.92	0.86
15:bM:343:PHE:CE2	20:mP:64:ASP:HA	2.10	0.86
6:AN:5:ILE:HD12	6:AN:27:ILE:HD13	1.57	0.86
21:SP:71:MEN:O	21:SP:77:ARG:HD3	1.74	0.86
27:aP:61:ARG:NH2	21:sP:62:TYR:O	2.08	0.86
7:LQ:50:CYS:SG	29:LQ:202:PEB:HAA1	2.14	0.86
6:M2:44:LEU:HD22	6:M2:152:PHE:CE1	2.09	0.86
10:d4:297:MET:HG2	5:FF:18:PHE:HB2	1.55	0.86
6:B4:118:ARG:NH1	6:L4:114:ARG:HB3	1.90	0.86
29:G4:202:PEB:HBD1	6:H4:33:ARG:CZ	2.05	0.86
7:B5:91:ARG:NH2	18:MC:293:MET:HB2	1.90	0.86
7:L5:79:MET:CE	13:k6:233:VAL:HB	2.04	0.86
6:W7:140:VAL:CG1	6:W7:146:ALA:CA	2.46	0.86
6:QB:54:GLU:OE2	29:QB:204:PEB:C2C	2.23	0.86
6:KC:44:LEU:HD23	29:KC:203:PEB:HBD2	1.58	0.86
5:FF:15:ARG:NH2	5:FF:17:GLU:OE2	2.08	0.86
6:GM:152:PHE:CZ	6:GM:156:LEU:HD11	2.10	0.86
25:YP:515:ASN:O	25:YP:518:ALA:N	2.08	0.86
7:JQ:108:ARG:CZ	14:MQ:257:THR:HG23	2.05	0.86
7:VR:84:ARG:HG2	7:VR:84:ARG:HH11	1.38	0.86
6:O2:79:ILE:HG21	13:k6:245:VAL:CG1	2.06	0.86
6:Q2:85:ASP:OD1	29:Q2:201:PEB:H1D1	1.76	0.86
6:U2:85:ASP:OD1	29:U2:201:PEB:H1D1	1.76	0.86
7:V2:84:ARG:O	7:V2:87:GLU:HG2	1.75	0.86
5:F7:72:MEN:O	5:F7:78:ARG:HD2	1.73	0.86
15:bB:358:LEU:HD23	20:KP:75:GLU:OE1	1.75	0.86
6:BD:118:ARG:NH1	6:LD:114:ARG:HB3	1.90	0.86
7:LG:136:ALA:HB3	29:LG:203:PEB:O1C	1.75	0.86
4:CI:145:GLN:HE21	29:NI:1002:PEB:CMC	1.82	0.86
6:oL:33:ARG:HH22	7:rL:38:LEU:HD13	1.37	0.86
15:bM:333:ARG:HH11	15:bM:333:ARG:CB	1.88	0.86
21:dP:97:LEU:CD1	20:eP:18:LEU:HD22	2.06	0.86
6:U1:153:SER:O	6:U1:157:ASP:CG	2.19	0.86
6:h1:135:ARG:CD	6:h1:157:ASP:OD1	2.24	0.86
8:e2:126:TYR:OH	7:V2:116:THR:HA	1.75	0.86
7:C5:77:ARG:HH12	29:C5:201:PEB:CGB	1.89	0.86
6:J8:99:VAL:CG2	7:K8:9:VAL:HG21	2.04	0.86
4:E9:85:ALA:O	8:eR:296:PRO:HB2	1.76	0.86
29:Q9:202:PEB:HBC2	5:FK:21:ASN:ND2	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YB:54:GLU:HG2	6:YB:133:TYR:HE2	1.38	0.86
18:ME:303:PHE:CE1	6:gL:53:LYS:CB	2.58	0.86
18:ME:304:TRP:HE3	18:ME:305:ALA:H	1.19	0.86
18:ME:305:ALA:C	18:ME:307:PRO:HD3	2.00	0.86
6:IG:2:LYS:NZ	14:MG:254:VAL:HG22	1.90	0.86
3:BI:205:ARG:HB2	20:PP:76:GLU:CD	2.00	0.86
6:SJ:67:LYS:HZ2	26:2P:121:VAL:CG1	1.84	0.86
6:mJ:10:SER:OG	16:xJ:194:VAL:HG23	1.75	0.86
4:GK:21:ASN:HD21	4:IK:152:ALA:HB1	1.40	0.86
4:MK:111:LEU:CD2	31:MK:1001:CYC:HAB2	2.05	0.86
19:zL:316:PHE:HE2	20:NP:83:ARG:HH11	1.24	0.86
19:zL:366:ARG:NH1	21:LP:62:TYR:CE2	2.43	0.86
7:NM:129:ARG:HG3	28:4P:121:HIS:ND1	1.91	0.86
6:YM:54:GLU:HG2	6:YM:133:TYR:HE2	1.38	0.86
7:BQ:137:GLN:N	29:BQ:203:PEB:O1C	2.08	0.86
6:MR:17:ARG:HH21	6:OR:2:LYS:HZ2	1.20	0.86
3:B1:20:PHE:HE1	4:K1:117:GLU:OE2	1.57	0.86
6:O1:5:ILE:HG21	7:P1:3:ASP:OD2	1.73	0.86
6:O2:138:LEU:HB2	29:O2:202:PEB:CMD	2.05	0.86
6:W2:85:ASP:OD1	29:W2:201:PEB:H1D1	1.76	0.86
7:X2:133:ILE:O	7:X2:137:GLN:HG3	1.76	0.86
6:I3:140:VAL:HG11	6:I3:146:ALA:CA	1.97	0.86
6:D4:142:ARG:NH1	29:D4:202:PEB:NB	2.22	0.86
7:I5:77:ARG:NH2	29:I5:201:PEB:O2B	2.09	0.86
7:K8:1:MET:CB	7:K8:104:VAL:HG21	1.85	0.86
12:E8:209:ARG:HG2	6:IF:70:GLY:HA3	1.56	0.86
5:F9:17:GLU:CD	8:eR:301:PHE:HE2	1.83	0.86
6:FD:115:GLU:HA	6:FD:118:ARG:HE	1.39	0.86
7:FG:50:CYS:SG	29:FG:203:PEB:C3A	2.62	0.86
7:FG:141:PHE:CZ	29:FG:203:PEB:CMA	2.44	0.86
3:BI:219:ALA:HB2	27:aP:60:ALA:C	2.00	0.86
16:xJ:92:LYS:NZ	16:xJ:92:LYS:HB3	1.89	0.86
7:JL:5:PHE:HE2	7:JL:31:ILE:HD11	1.39	0.86
6:AQ:2:LYS:HZ1	30:MQ:405:PUB:CAB	1.70	0.86
7:DQ:137:GLN:NE2	29:DQ:203:PEB:CHA	2.34	0.86
5:F1:21:ASN:ND2	29:Q7:202:PEB:HBC2	1.89	0.86
8:e2:299:VAL:HB	5:F7:17:GLU:HB3	1.58	0.86
7:I4:51:MET:HE2	29:I4:203:PEB:CHA	2.05	0.86
6:J5:98:VAL:HG11	7:K5:19:VAL:HG11	1.56	0.86
13:k6:94:LEU:HD11	13:k6:120:ILE:HD13	1.58	0.86
6:J8:18:PHE:HD1	6:J8:19:PRO:HD2	0.72	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:bB:343:PHE:HD2	20:KP:67:SER:HG	0.93	0.86
7:DE:47:ASN:O	7:DE:51:MET:HG2	1.74	0.86
7:FG:47:ASN:CB	29:FG:203:PEB:CMA	2.53	0.86
7:LG:116:THR:HG23	14:MG:233:ALA:HA	1.56	0.86
13:kH:57:GLY:O	13:kH:61:ARG:HG2	1.76	0.86
7:TL:25:GLN:CG	25:1P:521:THR:HG22	1.99	0.86
20:GP:15:ALA:HB2	25:YP:246:GLY:HA3	1.56	0.86
6:QR:135:ARG:O	6:QR:138:LEU:HD22	1.75	0.86
6:b1:135:ARG:NH1	6:b1:157:ASP:CG	2.34	0.86
6:F4:33:ARG:NH2	29:I4:202:PEB:HBD1	1.91	0.86
7:A5:18:TYR:CE1	11:D5:213:GLU:OE2	2.29	0.86
12:E5:173:PHE:HZ	6:ZI:83:TYR:CE2	1.92	0.86
12:E5:186:PRO:CD	6:bI:57:ASP:CB	2.54	0.86
3:B9:174:GLU:OE2	26:ZP:81:PHE:N	2.08	0.86
6:GB:54:GLU:HG3	6:GB:133:TYR:HE2	1.38	0.86
6:fB:54:GLU:HG2	6:fB:133:TYR:HE2	1.38	0.86
6:BD:9:VAL:CG1	7:CD:95:TYR:CD1	2.59	0.86
7:ID:102:ALA:HB1	7:ID:105:LEU:CG	2.04	0.86
7:LE:47:ASN:O	7:LE:51:MET:HG2	1.74	0.86
7:LE:120:LEU:HD21	18:ME:219:SER:CB	2.05	0.86
18:ME:223:ARG:HG3	18:ME:224:LYS:N	1.88	0.86
18:ME:233:ALA:HB3	18:ME:236:ASP:OD1	1.74	0.86
6:UK:5:ILE:HB	7:VK:3:ASP:OD2	1.75	0.86
16:wL:183:LYS:HE3	16:xL:41:ASN:H	1.40	0.86
6:CM:157:ASP:OD2	7:FM:149:ARG:NH2	2.08	0.86
6:UM:67:LYS:CE	14:MQ:97:PHE:CZ	2.59	0.86
7:gM:61:CYS:CB	29:gM:203:PEB:CAD	2.54	0.86
7:T1:3:ASP:OD1	7:T1:6:SER:OG	1.94	0.85
6:l1:135:ARG:CD	6:l1:157:ASP:OD1	2.24	0.85
6:O2:85:ASP:OD1	29:O2:201:PEB:H1D1	1.76	0.85
7:C4:171:ARG:HB2	7:C4:171:ARG:NH1	1.91	0.85
7:L8:116:THR:HG22	13:kH:284:LEU:CD2	2.05	0.85
12:E8:72:MET:HE1	5:HF:145:THR:CG2	2.05	0.85
12:E8:173:PHE:HZ	6:ZF:83:TYR:CE2	1.91	0.85
7:a9:147:THR:HG23	8:eR:287:ALA:HB1	1.56	0.85
6:AA:5:ILE:HD12	6:AA:27:ILE:HD13	1.57	0.85
15:bB:343:PHE:CD2	20:KP:67:SER:OG	2.29	0.85
7:gB:61:CYS:CB	29:gB:203:PEB:CAD	2.54	0.85
4:CF:33:ARG:CZ	29:NF:1002:PEB:HBD1	2.05	0.85
6:AG:25:GLU:HG2	6:CG:33:ARG:HG3	1.55	0.85
7:HJ:72:MEN:O	7:HJ:78:ARG:HD2	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KL:47:ASN:HD22	29:KL:202:PEB:C4D	1.89	0.85
6:QL:74:GLU:H	6:QL:78:LYS:HD3	1.33	0.85
6:WL:72:ALA:CB	29:WL:202:PEB:CMA	2.53	0.85
7:NM:25:GLN:HB2	21:OP:147:LYS:HG3	0.86	0.85
21:SP:27:LEU:HD13	20:TP:97:ILE:HG21	1.57	0.85
8:eR:271:GLU:OE2	7:TR:72:MEN:HE21	1.73	0.85
6:WR:65:TYR:CE1	6:WR:66:LEU:HD12	2.10	0.85
8:e2:145:SER:HA	8:e2:149:GLN:HG3	1.55	0.85
8:e2:293:THR:HG22	7:T2:135:LYS:HZ3	1.40	0.85
6:U2:137:ARG:NH2	29:U2:202:PEB:CHB	2.39	0.85
7:M4:124:THR:HG1	6:UF:69:PRO:HB3	1.38	0.85
11:D5:219:TYR:OH	5:HK:152:ASP:HA	1.74	0.85
7:A8:161:LEU:CD1	29:A8:202:PEB:CBA	2.53	0.85
12:E8:186:PRO:HG3	6:bF:57:ASP:CB	1.97	0.85
4:C9:1:MET:HE2	4:C9:109:GLU:OE1	1.77	0.85
6:W9:53:LYS:HB2	7:PR:114:LYS:NZ	1.92	0.85
7:NB:62:GLU:OE1	28:bP:124:ASN:ND2	2.08	0.85
6:jB:33:ARG:NH1	6:jB:147:GLN:HG2	1.89	0.85
6:IC:14:ALA:HB1	18:MC:51:PRO:HD3	1.55	0.85
3:BI:228:MET:HE2	3:BI:230:PRO:HB3	1.58	0.85
6:QJ:68:ASN:HB2	6:QJ:71:GLU:CG	2.07	0.85
6:kJ:108:TRP:O	7:tJ:75:THR:OG1	1.92	0.85
21:nP:3:ASP:OD1	22:xP:5:THR:OG1	1.93	0.85
8:eR:75:MET:HE2	29:NR:201:PEB:CBD	2.03	0.85
8:eR:108:HIS:HE1	7:PR:85:ASP:OD1	1.58	0.85
8:e2:128:ARG:HD3	8:e2:128:ARG:N	1.89	0.85
6:K3:45:ALA:O	6:K3:48:HIS:ND1	2.09	0.85
7:k7:147:THR:HA	7:G8:150:LYS:O	1.76	0.85
7:I8:15:LYS:O	7:I8:19:VAL:CG1	2.24	0.85
6:J8:77:GLU:HG3	5:J9:11:GLN:HE22	1.39	0.85
6:BD:1:MET:O	6:BD:2:LYS:HG3	1.76	0.85
7:CD:54:ASP:OD2	29:CD:203:PEB:HHA1	1.75	0.85
29:LE:201:PEB:HBB1	18:ME:219:SER:HB2	1.58	0.85
7:BG:140:ALA:CB	29:BG:203:PEB:HBB2	2.06	0.85
5:JI:39:ASP:OD1	29:JI:1002:PEB:CHC	2.25	0.85
6:MJ:68:ASN:HB2	6:MJ:71:GLU:CG	2.07	0.85
4:MK:19:LEU:HD11	5:NK:98:ILE:HD11	1.08	0.85
7:TK:3:ASP:OD1	7:TK:6:SER:OG	1.94	0.85
8:eR:239:LYS:NZ	7:PR:120:LEU:HD21	1.90	0.85
7:VR:38:LEU:CD1	29:VR:202:PEB:C4D	2.53	0.85
5:J1:12:ALA:HB2	5:J1:19:LEU:HD23	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:b1:135:ARG:CD	6:b1:157:ASP:OD1	2.24	0.85
7:I5:1:MET:HE2	7:I5:1:MET:O	1.76	0.85
7:C8:40:ALA:HB2	7:C8:161:LEU:HD13	1.57	0.85
4:E9:85:ALA:C	8:eR:296:PRO:CB	2.49	0.85
6:GA:37:ARG:HG2	6:GA:97:LEU:O	1.77	0.85
7:JC:47:ASN:O	7:JC:51:MET:HG2	1.74	0.85
7:KD:128:ILE:HD11	7:KD:177:SER:OG	1.76	0.85
7:FG:58:GLY:HA2	29:FG:203:PEB:C2D	2.06	0.85
7:HG:54:ASP:HB2	29:HG:203:PEB:HAA2	1.56	0.85
3:BI:206:PHE:HB3	21:SP:62:TYR:CE2	2.12	0.85
6:QJ:74:GLU:H	6:QJ:78:LYS:HD3	1.33	0.85
6:kJ:68:ASN:HB2	6:kJ:71:GLU:CG	2.07	0.85
6:YL:68:ASN:HB2	6:YL:71:GLU:CG	2.07	0.85
16:wL:183:LYS:HE3	16:xL:40:VAL:HG13	0.86	0.85
16:wL:183:LYS:HG2	16:xL:40:VAL:CG2	2.05	0.85
20:mP:25:ARG:HH22	25:1P:45:SER:HB2	1.42	0.85
6:B4:9:VAL:CG1	7:C4:95:TYR:CD1	2.59	0.85
6:L4:115:GLU:HA	6:L4:118:ARG:HE	1.39	0.85
3:B7:121:ASN:HD22	26:2P:52:GLY:N	1.75	0.85
7:I8:32:ALA:O	7:I8:33:ASP:HB3	1.75	0.85
6:S9:54:GLU:OE2	6:S9:137:ARG:CD	2.25	0.85
18:ME:229:GLU:CG	18:ME:242:LYS:HE2	2.07	0.85
18:ME:303:PHE:CE1	6:gL:53:LYS:CG	2.59	0.85
1:XF:105:LYS:NZ	7:aF:91:ARG:CZ	2.40	0.85
5:FF:39:ASP:OD1	29:FF:1002:PEB:CHC	2.25	0.85
3:BI:224:MET:HG2	5:JI:152:ASP:OD1	1.76	0.85
15:bM:343:PHE:CD2	20:mP:67:SER:OG	2.29	0.85
6:UM:67:LYS:HE2	14:MQ:97:PHE:HZ	1.41	0.85
7:DO:39:ASP:HA	29:DO:202:PEB:HMD2	1.56	0.85
3:B1:13:GLN:OE1	3:B1:15:GLN:NE2	2.09	0.85
5:J1:27:LEU:O	5:J1:31:VAL:HG13	1.76	0.85
8:e2:87:MET:O	8:e2:91:GLU:HG2	1.74	0.85
6:F4:115:GLU:HA	6:F4:118:ARG:HE	1.39	0.85
7:K4:128:ILE:HD11	7:K4:177:SER:OG	1.76	0.85
7:I5:13:ASP:OD2	7:I5:16:ALA:CB	2.10	0.85
13:k6:259:SER:CB	6:U7:67:LYS:HZ1	1.88	0.85
6:S7:54:GLU:OE2	6:S7:137:ARG:CD	2.25	0.85
7:a7:26:ALA:HB3	12:E8:40:VAL:HG12	0.87	0.85
7:B8:104:VAL:HB	18:ME:265:LYS:HB3	1.56	0.85
6:UB:53:LYS:C	14:MG:100:THR:HG21	1.99	0.85
6:UB:53:LYS:O	14:MG:100:THR:HG21	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LC:116:THR:CB	18:MC:213:THR:HB	2.06	0.85
6:IE:14:ALA:HB3	18:ME:51:PRO:HD3	1.59	0.85
6:KJ:73:GLY:HA2	6:KJ:78:LYS:CG	2.06	0.85
6:MJ:68:ASN:CB	6:MJ:71:GLU:OE1	2.23	0.85
6:SJ:51:VAL:CG2	6:SJ:52:VAL:N	2.40	0.85
19:zL:217:ALA:HB3	19:zL:218:PRO:HD2	1.57	0.85
19:zL:340:PHE:CG	20:gP:67:SER:OG	2.28	0.85
7:LQ:111:ASN:O	14:MQ:236:TYR:HD1	1.26	0.85
29:eR:401:PEB:CHA	7:PR:82:CYS:HA	2.06	0.85
6:MR:54:GLU:OE2	29:MR:202:PEB:CAC	2.24	0.85
7:I4:51:MET:HE2	29:I4:203:PEB:HHA1	1.59	0.85
7:I5:15:LYS:O	7:I5:19:VAL:CG1	2.24	0.85
12:E5:188:ALA:HB2	6:bI:64:ALA:HB2	1.57	0.85
7:a7:26:ALA:HB1	12:E8:40:VAL:O	1.69	0.85
7:k7:150:LYS:CE	7:G8:149:ARG:HH21	1.87	0.85
4:E9:86:ARG:HA	8:eR:296:PRO:O	1.77	0.85
6:S9:54:GLU:HG2	6:S9:133:TYR:HE2	1.42	0.85
7:CD:171:ARG:HB2	7:CD:171:ARG:NH1	1.91	0.85
6:HD:33:ARG:HG3	6:HD:33:ARG:HH21	1.40	0.85
18:ME:136:LYS:NZ	18:ME:212:TYR:OH	2.10	0.85
6:gJ:68:ASN:HB2	6:gJ:71:GLU:CG	2.07	0.85
19:zJ:363:ARG:HE	21:nP:62:TYR:HD1	1.22	0.85
5:HK:41:VAL:HG21	5:HK:98:ILE:HG22	1.57	0.85
5:JK:145:THR:CG2	5:JK:150:ILE:HD13	2.06	0.85
6:AL:147:GLN:CD	29:AL:203:PEB:CMC	2.48	0.85
7:HL:5:PHE:HE2	7:HL:31:ILE:HD11	1.10	0.85
7:kM:85:ASP:OD1	29:kM:201:PEB:C1D	2.23	0.85
7:JQ:27:LEU:O	7:JQ:31:ILE:HB	1.77	0.85
7:TR:106:GLU:HG2	7:TR:110:LEU:HD12	1.56	0.85
6:O2:137:ARG:HH21	29:O2:202:PEB:CHB	1.90	0.85
7:T2:106:GLU:HG2	7:T2:110:LEU:HD12	1.56	0.85
7:T2:123:PRO:N	6:U7:69:PRO:HG2	1.90	0.85
6:W2:65:TYR:CE2	6:W2:66:LEU:HD12	2.12	0.85
6:F4:33:ARG:HG2	6:H4:25:GLU:CD	2.01	0.85
7:M4:59:MET:HE1	7:M4:129:ARG:C	2.02	0.85
7:M4:171:ARG:HB2	7:M4:171:ARG:NH1	1.91	0.85
5:D7:74:TYR:OH	4:G7:93:ARG:NH2	2.09	0.85
18:MC:136:LYS:HE3	18:MC:212:TYR:HH	1.41	0.85
7:ED:59:MET:HE1	7:ED:129:ARG:C	2.02	0.85
7:ID:148:GLU:OE1	7:ID:148:GLU:N	2.10	0.85
7:MD:171:ARG:HB2	7:MD:171:ARG:NH1	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:312:LEU:CD1	18:ME:313:THR:HG23	2.05	0.85
6:oJ:68:ASN:CB	6:oJ:71:GLU:OE1	2.23	0.85
4:CK:40:ALA:HB2	4:CK:146:VAL:HG13	1.59	0.85
6:AL:139:CYS:SG	29:AL:202:PEB:CBA	2.60	0.85
6:eL:68:ASN:HB2	6:eL:71:GLU:CG	2.07	0.85
16:wL:179:ALA:HB2	16:xL:37:THR:HG1	1.03	0.85
7:FQ:50:CYS:CB	29:FQ:203:PEB:HAA1	2.07	0.85
6:MR:107:GLU:O	7:VR:77:ARG:HD2	1.77	0.85
7:PR:84:ARG:HG2	7:PR:88:ILE:CD1	2.07	0.85
6:UR:85:ASP:OD1	29:UR:201:PEB:H1D1	1.76	0.85
4:M1:93:ARG:HD3	5:N1:18:PHE:HD1	1.36	0.85
8:e2:145:SER:HA	8:e2:149:GLN:HG2	1.55	0.85
6:M2:85:ASP:OD1	29:M2:201:PEB:H1D1	1.76	0.85
6:M2:107:GLU:O	7:V2:77:ARG:HD2	1.77	0.85
6:W2:138:LEU:CD2	6:W2:144:MET:HE3	2.07	0.85
7:I4:148:GLU:OE1	7:I4:148:GLU:N	2.10	0.85
7:B5:108:ARG:HH22	18:MC:268:VAL:HB	0.70	0.85
15:bB:271:TRP:CH2	7:FB:77:ARG:NH2	2.45	0.85
7:CD:59:MET:HE1	7:CD:129:ARG:C	2.02	0.85
18:ME:136:LYS:HE3	18:ME:212:TYR:HH	1.40	0.85
7:DG:27:LEU:O	7:DG:31:ILE:HB	1.77	0.85
5:JI:65:GLN:CG	20:PP:68:PRO:HD3	2.06	0.85
7:TJ:25:GLN:CG	25:YP:521:THR:HB	2.06	0.85
6:cJ:133:TYR:CE1	6:cJ:137:ARG:CD	2.59	0.85
6:IK:135:ARG:CD	6:IK:157:ASP:OD1	2.24	0.85
7:FL:145:THR:OG1	25:IP:514:ILE:HG21	1.76	0.85
16:wL:168:VAL:HG13	16:xL:47:ARG:HH11	1.40	0.85
19:zL:332:LEU:HD22	20:NP:63:PRO:HB2	1.57	0.85
6:GM:159:LEU:HD12	6:GM:159:LEU:O	1.77	0.85
6:hM:147:GLN:OE1	6:hM:147:GLN:N	2.08	0.85
20:KP:5:THR:OG1	21:OP:3:ASP:OD1	1.95	0.85
7:JQ:137:GLN:HE22	29:JQ:203:PEB:HHA1	1.40	0.85
8:eR:128:ARG:HD3	8:eR:128:ARG:N	1.89	0.85
6:MR:85:ASP:OD1	29:MR:201:PEB:H1D1	1.76	0.85
6:QR:85:ASP:OD1	29:QR:201:PEB:H1D1	1.76	0.85
5:J1:18:PHE:CE1	15:bB:335:ILE:HD11	2.08	0.85
10:d4:338:GLU:HB3	10:dD:327:SER:OG	1.76	0.85
6:J5:9:VAL:CG1	7:K5:95:TYR:CD1	2.60	0.85
12:E5:162:ASN:HD21	29:kI:203:PEB:C1B	1.79	0.85
1:X7:263:THR:HG21	5:D7:115:GLU:HG2	1.56	0.85
7:I8:6:SER:OG	7:I8:26:ALA:CB	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:77:ARG:NH2	29:I8:201:PEB:O2B	2.09	0.85
18:MC:136:LYS:NZ	18:MC:212:TYR:OH	2.10	0.85
7:ED:171:ARG:HB2	7:ED:171:ARG:NH1	1.91	0.85
7:BG:140:ALA:CB	29:BG:203:PEB:CAB	2.54	0.85
5:HK:35:ASN:HD22	29:HK:1002:PEB:C2C	1.90	0.85
6:UK:153:SER:O	6:UK:157:ASP:CG	2.19	0.85
6:WK:52:VAL:HB	6:WK:53:LYS:HE2	1.58	0.85
6:bK:135:ARG:CD	6:bK:157:ASP:OD1	2.24	0.85
6:QL:68:ASN:HB2	6:QL:71:GLU:CG	2.07	0.85
6:kL:33:ARG:HE	6:mL:25:GLU:HA	1.41	0.85
6:AQ:2:LYS:HZ1	30:MQ:405:PUB:HAB2	1.22	0.85
6:WR:85:ASP:OD1	29:WR:201:PEB:H1D1	1.76	0.85
7:e1:74:TYR:OH	6:l1:91:ARG:NH2	2.09	0.84
6:K3:54:GLU:OE2	29:K3:202:PEB:HMC3	1.77	0.84
7:K5:164:GLU:OE2	7:K5:168:TYR:OH	1.95	0.84
7:L5:108:ARG:NH1	4:E7:68:GLN:OE1	2.09	0.84
7:I8:79:MET:HE2	15:bM:229:LEU:CD1	2.07	0.84
7:A8:18:TYR:CE1	11:D8:213:GLU:OE2	2.29	0.84
3:B9:207:ARG:NH1	27:aP:61:ARG:NH1	2.20	0.84
4:E9:89:GLY:CA	8:eR:297:GLY:HA3	2.08	0.84
6:HD:106:ASP:HA	6:HD:110:ILE:HG12	1.59	0.84
7:HG:27:LEU:O	7:HG:31:ILE:HB	1.77	0.84
6:KG:2:LYS:NZ	30:MG:402:PUB:HBB1	1.90	0.84
7:LL:26:ALA:HB3	28:bP:228:ILE:CG2	2.07	0.84
6:kL:68:ASN:HB2	6:kL:71:GLU:CG	2.07	0.84
15:bM:341:ALA:HB1	20:mP:68:PRO:CD	2.07	0.84
5:D1:40:ILE:HG12	29:D1:1002:PEB:HBA1	1.59	0.84
5:H1:41:VAL:HG21	5:H1:98:ILE:HG22	1.57	0.84
5:H1:145:THR:HG22	29:H1:1002:PEB:OA	1.77	0.84
6:W1:49:GLU:HA	6:W1:53:LYS:NZ	1.90	0.84
6:M2:44:LEU:HD22	6:M2:152:PHE:HE1	1.42	0.84
6:S2:118:ARG:NH1	6:U2:114:ARG:HE	1.75	0.84
6:B4:1:MET:O	6:B4:2:LYS:HG3	1.76	0.84
29:C4:202:PEB:OD	6:D4:33:ARG:CZ	2.25	0.84
7:G4:39:ASP:OD2	7:G4:153:PHE:CD1	2.30	0.84
7:G5:150:LYS:O	7:k9:147:THR:HA	1.77	0.84
13:k6:134:ILE:HG12	13:k6:143:ALA:HB3	1.57	0.84
6:W9:137:ARG:HH11	8:eR:258:ASN:ND2	1.74	0.84
7:m9:8:VAL:HG11	7:m9:23:ASP:OD1	1.76	0.84
7:MD:59:MET:HE1	7:MD:129:ARG:C	2.02	0.84
18:ME:144:ARG:HH21	18:ME:144:ARG:N	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LG:141:PHE:CZ	29:LG:203:PEB:CMA	2.60	0.84
1:XI:94:TYR:CD1	7:TI:84:ARG:HD3	2.11	0.84
5:JK:17:GLU:HB2	15:bM:335:ILE:HB	0.89	0.84
7:eK:74:TYR:OH	6:IK:91:ARG:NH2	2.09	0.84
6:cL:138:LEU:CD1	29:cL:202:PEB:HMD3	2.07	0.84
7:IL:16:ALA:HB2	7:tL:69:PRO:HG2	1.57	0.84
6:uL:68:ASN:HB2	6:uL:71:GLU:CG	2.07	0.84
16:wL:183:LYS:CG	16:xL:40:VAL:CG2	2.54	0.84
6:CN:95:TYR:CE2	7:DN:13:ASP:OD1	2.31	0.84
6:EN:37:ARG:HG2	6:EN:97:LEU:O	1.75	0.84
6:GN:37:ARG:HG2	6:GN:97:LEU:O	1.77	0.84
6:CQ:31:ILE:HG23	7:DQ:31:ILE:HG13	1.59	0.84
7:LQ:27:LEU:O	7:LQ:31:ILE:HB	1.77	0.84
6:OR:142:ARG:HH12	29:OR:202:PEB:C4B	1.90	0.84
5:J1:20:SER:H	5:J1:23:GLN:HE21	1.25	0.84
7:T2:106:GLU:O	7:T2:111:ASN:HB2	1.77	0.84
7:V2:38:LEU:HD12	29:V2:202:PEB:C4D	2.07	0.84
7:G4:59:MET:HE1	7:G4:129:ARG:C	2.02	0.84
6:L4:106:ASP:HA	6:L4:110:ILE:HG12	1.60	0.84
12:E5:173:PHE:CE2	6:ZI:83:TYR:CE2	2.65	0.84
6:W7:142:ARG:HH12	29:W7:202:PEB:C4B	1.90	0.84
6:J8:64:ALA:CB	20:pP:41:GLN:HE22	1.90	0.84
1:X9:105:LYS:HD2	29:P9:201:PEB:HBD1	1.60	0.84
10:dD:270:ARG:CD	7:MD:78:ARG:NH2	2.40	0.84
7:ID:107:ASP:HA	7:ID:111:ASN:HD21	1.41	0.84
7:ID:174:ALA:CB	6:WI:76:GLN:CG	2.55	0.84
6:KE:44:LEU:HD23	29:KE:203:PEB:HBD2	1.58	0.84
7:LG:112:GLY:N	14:MG:232:LYS:HZ3	1.70	0.84
6:aJ:68:ASN:HB2	6:aJ:71:GLU:CG	2.07	0.84
6:qJ:33:ARG:NH2	6:qJ:33:ARG:HB3	1.91	0.84
6:oL:68:ASN:HB2	6:oL:71:GLU:CG	2.07	0.84
7:VR:38:LEU:HD12	29:VR:202:PEB:C4D	2.07	0.84
6:O2:69:PRO:HG2	13:k6:232:PHE:CG	2.12	0.84
7:C4:59:MET:HE1	7:C4:129:ARG:C	2.02	0.84
6:H4:137:ARG:HH11	29:H4:202:PEB:HNC	1.20	0.84
7:K4:148:GLU:OE1	7:K4:148:GLU:N	2.10	0.84
7:I5:24:LEU:O	19:zL:291:ILE:HG23	1.76	0.84
11:D5:260:THR:CG2	7:TK:150:LYS:CA	2.54	0.84
7:a7:26:ALA:C	12:E8:40:VAL:HG13	2.02	0.84
7:I8:74:TYR:C	7:I8:75:THR:HG1	1.84	0.84
6:J8:9:VAL:CG1	7:K8:95:TYR:CD1	2.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K8:164:GLU:OE2	7:K8:168:TYR:OH	1.95	0.84
4:K9:113:ALA:O	5:N9:76:SER:HB3	1.78	0.84
5:JF:39:ASP:OD1	29:JF:1002:PEB:CHC	2.25	0.84
5:HI:39:ASP:OD1	29:HI:1002:PEB:CHC	2.25	0.84
6:KJ:47:ASN:HD22	29:KJ:202:PEB:C4D	1.89	0.84
5:JK:27:LEU:O	5:JK:31:VAL:HG13	1.76	0.84
6:hK:135:ARG:CD	6:hK:157:ASP:OD1	2.24	0.84
7:LL:26:ALA:C	28:bP:231:ILE:CD1	2.45	0.84
6:ML:68:ASN:CB	6:ML:71:GLU:OE1	2.23	0.84
7:BQ:97:LEU:HD23	7:BQ:168:TYR:CD2	2.11	0.84
6:OR:85:ASP:OD1	29:OR:201:PEB:H1D1	1.76	0.84
3:B1:15:GLN:OE1	3:B1:15:GLN:N	2.09	0.84
3:B1:170:ARG:NH2	5:N1:120:LEU:O	2.09	0.84
5:J1:145:THR:CG2	5:J1:150:ILE:HD13	2.06	0.84
6:U2:139:CYS:HB2	29:U2:202:PEB:HBA2	1.51	0.84
7:E4:171:ARG:HB2	7:E4:171:ARG:NH1	1.91	0.84
7:G4:58:GLY:CA	29:G4:203:PEB:HMD2	2.08	0.84
7:I4:107:ASP:HA	7:I4:111:ASN:HD21	1.41	0.84
7:K4:59:MET:HE1	7:K4:129:ARG:C	2.02	0.84
7:I8:30:PHE:CZ	28:4P:132:PRO:CD	2.60	0.84
4:E9:85:ALA:C	8:eR:296:PRO:HB3	2.02	0.84
15:bB:340:GLU:O	15:bB:349:LYS:HB2	1.78	0.84
15:bB:374:THR:CG2	21:MP:63:SER:HB2	2.06	0.84
6:GB:159:LEU:HD12	6:GB:159:LEU:O	1.77	0.84
6:FD:25:GLU:OE1	6:HD:33:ARG:HD2	1.78	0.84
6:LD:115:GLU:HA	6:LD:118:ARG:HE	1.39	0.84
5:HF:39:ASP:OD1	29:HF:1002:PEB:CHC	2.25	0.84
5:LF:68:GLN:HE22	27:3P:110:SER:CB	1.90	0.84
5:DI:39:ASP:OD1	29:DI:1002:PEB:CHC	2.25	0.84
6:AJ:137:ARG:HH22	29:AJ:202:PEB:C2B	1.90	0.84
7:JJ:5:PHE:HE2	7:JJ:31:ILE:HD11	1.39	0.84
6:mL:68:ASN:HB2	6:mL:71:GLU:CG	2.07	0.84
19:zL:332:LEU:CD2	20:NP:64:ASP:N	2.36	0.84
7:HQ:27:LEU:O	7:HQ:31:ILE:HB	1.77	0.84
7:TR:106:GLU:O	7:TR:111:ASN:HB2	1.77	0.84
10:d4:331:GLN:HG2	10:dD:335:LEU:HD11	1.02	0.84
6:B4:25:GLU:OE2	6:D4:33:ARG:HG3	1.76	0.84
7:I4:59:MET:HE1	7:I4:129:ARG:C	2.02	0.84
7:K5:112:GLY:HA3	27:aP:269:LYS:HE3	1.60	0.84
13:k6:4:LYS:HB3	13:k6:7:GLU:CG	2.08	0.84
6:S7:59:CYS:SG	6:S7:126:ALA:HB1	2.18	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:148:GLU:OE1	7:ED:148:GLU:N	2.10	0.84
7:GD:39:ASP:OD2	7:GD:153:PHE:CD1	2.30	0.84
7:ID:59:MET:HE1	7:ID:129:ARG:C	2.02	0.84
7:ID:97:LEU:HD11	7:ID:165:VAL:HG23	0.86	0.84
6:JD:9:VAL:HG13	7:KD:95:TYR:HE1	1.42	0.84
7:KD:148:GLU:OE1	7:KD:148:GLU:N	2.10	0.84
7:MD:124:THR:OG1	6:UI:69:PRO:CG	2.25	0.84
5:JF:135:LYS:NZ	27:3P:67:GLY:HA2	1.91	0.84
7:BG:27:LEU:O	7:BG:31:ILE:HB	1.77	0.84
7:FG:27:LEU:O	7:FG:31:ILE:HB	1.77	0.84
7:TJ:29:SER:O	7:TJ:33:ASP:OD1	1.95	0.84
6:uJ:68:ASN:HB2	6:uJ:71:GLU:CG	2.07	0.84
6:KL:73:GLY:HA2	6:KL:78:LYS:CG	2.06	0.84
29:RL:202:PEB:CAD	6:SL:33:ARG:NH1	2.39	0.84
6:QM:54:GLU:OE1	29:QM:204:PEB:HAC1	1.78	0.84
6:KO:45:ALA:O	6:KO:48:HIS:ND1	2.09	0.84
8:e2:126:TYR:CZ	7:V2:116:THR:HG23	2.13	0.84
6:W2:65:TYR:CE1	6:W2:66:LEU:HD12	2.10	0.84
7:I4:171:ARG:HB2	7:I4:171:ARG:NH1	1.91	0.84
5:F7:113:LEU:HD23	5:F7:171:VAL:HG22	1.57	0.84
6:hB:33:ARG:CZ	6:hB:151:GLU:OE2	2.25	0.84
7:LC:116:THR:CB	18:MC:213:THR:CB	2.55	0.84
7:CD:58:GLY:CA	29:CD:203:PEB:CMD	2.56	0.84
7:LE:116:THR:CB	18:ME:213:THR:HB	2.08	0.84
18:ME:304:TRP:CE2	6:gL:87:ASP:CG	2.55	0.84
7:BG:140:ALA:HB1	29:BG:203:PEB:CBB	2.07	0.84
7:LG:58:GLY:N	29:LG:203:PEB:HMD2	1.92	0.84
5:JI:26:ALA:HB1	27:aP:91:VAL:CG1	2.04	0.84
7:TJ:25:GLN:CG	25:YP:521:THR:HG22	2.02	0.84
6:eJ:68:ASN:CB	6:eJ:71:GLU:OE1	2.23	0.84
6:AL:137:ARG:HH22	29:AL:202:PEB:C2B	1.90	0.84
7:TL:29:SER:O	7:TL:33:ASP:OD1	1.95	0.84
6:aL:68:ASN:HB2	6:aL:71:GLU:CG	2.07	0.84
16:wL:164:SER:OG	16:xL:36:GLN:OE1	1.96	0.84
19:zL:363:ARG:HD3	21:LP:62:TYR:CA	2.07	0.84
27:aP:38:TYR:HB3	20:vP:107:ILE:HD11	1.59	0.84
8:eR:103:VAL:HG23	8:eR:104:PHE:CD1	2.13	0.84
6:UR:137:ARG:HH21	29:UR:202:PEB:C4B	1.91	0.84
6:WR:96:CYS:SG	6:WR:105:LEU:CG	2.66	0.84
5:D1:27:LEU:O	5:D1:31:VAL:HG13	1.77	0.84
5:J1:12:ALA:HB2	5:J1:19:LEU:CD2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:142:ARG:CD	6:IB:76:GLN:CD	2.50	0.84
6:S2:142:ARG:NH2	29:S2:202:PEB:C1B	2.40	0.84
3:B9:21:GLU:HB2	4:M9:113:ALA:HB1	1.58	0.84
5:F9:113:LEU:HD23	5:F9:171:VAL:HG22	1.58	0.84
6:CA:95:TYR:CE2	7:DA:13:ASP:OD1	2.31	0.84
6:QB:54:GLU:OE1	29:QB:204:PEB:HAC1	1.78	0.84
6:HD:137:ARG:HH11	29:HD:202:PEB:HNC	1.20	0.84
7:HJ:5:PHE:HE2	7:HJ:31:ILE:CD1	1.90	0.84
6:AL:147:GLN:NE2	29:AL:203:PEB:C3C	2.41	0.84
21:FP:60:LEU:HD11	21:FP:72:MET:HE1	1.57	0.84
3:B1:92:PRO:HD3	4:G1:15:GLN:HE21	1.43	0.84
7:D3:39:ASP:HA	29:D3:202:PEB:HMD2	1.58	0.84
7:C4:58:GLY:O	29:C4:203:PEB:CAD	2.26	0.84
7:G4:148:GLU:OE1	7:G4:148:GLU:N	2.10	0.84
6:H4:106:ASP:HA	6:H4:110:ILE:HG12	1.60	0.84
7:L5:116:THR:CG2	13:k6:284:LEU:HD23	2.06	0.84
12:E8:209:ARG:HG3	6:IF:70:GLY:HA2	1.59	0.84
3:B9:207:ARG:HH12	27:aP:61:ARG:HH12	0.85	0.84
10:dD:283:ARG:CG	7:TI:148:GLU:OE1	2.25	0.84
6:BD:106:ASP:HA	6:BD:110:ILE:HG12	1.60	0.84
7:GD:59:MET:HE1	7:GD:129:ARG:C	2.02	0.84
7:GD:171:ARG:HB2	7:GD:171:ARG:NH1	1.91	0.84
6:HD:137:ARG:CZ	29:HD:202:PEB:O1B	2.26	0.84
7:KD:59:MET:HE1	7:KD:129:ARG:C	2.02	0.84
5:DF:39:ASP:OD1	29:DF:1002:PEB:CHC	2.25	0.84
6:CG:31:ILE:HG23	7:DG:31:ILE:HG13	1.59	0.84
7:FG:54:ASP:HB2	29:FG:203:PEB:HBA2	1.59	0.84
14:MG:245:MET:HA	14:MG:245:MET:CE	2.07	0.84
6:AJ:139:CYS:SG	29:AJ:202:PEB:CBA	2.60	0.84
6:SJ:69:PRO:CG	26:2P:132:LYS:NZ	2.41	0.84
29:IJ:201:PEB:O1C	16:xJ:251:TYR:OH	1.96	0.84
6:mJ:68:ASN:HB2	6:mJ:71:GLU:CG	2.07	0.84
6:oJ:68:ASN:HB2	6:oJ:71:GLU:CG	2.07	0.84
6:WK:49:GLU:HA	6:WK:53:LYS:NZ	1.90	0.84
6:EL:68:ASN:HB2	6:EL:71:GLU:CG	2.07	0.84
6:gL:68:ASN:HB2	6:gL:71:GLU:CG	2.07	0.84
7:NM:22:SER:O	21:oP:147:LYS:CE	2.25	0.84
7:kM:125:ASN:OD1	7:kM:126:SER:N	2.11	0.84
6:GQ:114:ARG:HD2	6:IQ:114:ARG:HH11	1.43	0.84
10:d4:217:SER:OG	29:I4:201:PEB:HAC2	1.76	0.84
10:d4:337:ARG:NH1	6:F4:133:TYR:OH	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:171:ARG:HB2	7:G4:171:ARG:NH1	1.91	0.84
6:S7:54:GLU:HG2	6:S7:133:TYR:HE2	1.42	0.84
7:I8:6:SER:OG	7:I8:26:ALA:HB1	1.78	0.84
7:I8:8:VAL:CG2	19:zJ:298:ALA:HB1	2.07	0.84
15:bB:335:ILE:HG13	15:bB:337:PRO:HD2	1.58	0.84
7:BG:97:LEU:HD23	7:BG:168:TYR:CD2	2.11	0.84
6:EJ:68:ASN:HB2	6:EJ:71:GLU:CG	2.07	0.84
6:cJ:138:LEU:CD1	29:cJ:202:PEB:HMD3	2.07	0.84
5:HK:145:THR:HG22	29:HK:1002:PEB:OA	1.77	0.84
15:bM:335:ILE:HB	15:bM:340:GLU:HG2	1.56	0.84
7:FQ:27:LEU:O	7:FQ:31:ILE:HB	1.77	0.84
7:HQ:141:PHE:CD2	29:HQ:203:PEB:CMB	2.60	0.84
6:SR:81:LYS:CD	29:SR:201:PEB:HAB2	2.06	0.84
6:SR:140:VAL:CG1	6:SR:146:ALA:HA	2.07	0.84
6:W1:52:VAL:HB	6:W1:53:LYS:HE2	1.58	0.83
29:e2:401:PEB:C2A	7:P2:59:MET:HE1	2.07	0.83
7:I4:174:ALA:CB	6:WF:76:GLN:HG2	2.07	0.83
7:M4:148:GLU:OE1	7:M4:148:GLU:N	2.10	0.83
7:I8:7:ARG:NH2	28:4P:88:LEU:CD2	2.40	0.83
3:B9:172:LYS:CB	26:ZP:86:PRO:HD3	2.06	0.83
6:BD:29:GLY:C	6:BD:32:GLN:NE2	2.35	0.83
7:ID:107:ASP:HA	7:ID:111:ASN:ND2	1.93	0.83
7:NJ:108:ARG:NH2	16:wJ:41:ASN:CB	2.41	0.83
19:zJ:331:PRO:CB	20:pP:68:PRO:HD3	2.06	0.83
19:zL:363:ARG:HG2	21:LP:67:ARG:NH1	1.93	0.83
7:BQ:27:LEU:O	7:BQ:31:ILE:HB	1.77	0.83
29:eR:401:PEB:CMA	7:PR:59:MET:HE1	2.07	0.83
6:J4:106:ASP:HA	6:J4:110:ILE:HG12	1.60	0.83
3:B7:197:PHE:CE2	21:QP:140:LEU:CD1	2.55	0.83
15:bB:375:ASP:OD2	7:FB:64:PRO:CD	2.25	0.83
17:BB:81:ALA:CB	7:RB:115:GLU:CD	2.51	0.83
17:BB:196:ILE:HG23	7:TB:115:GLU:OE1	1.78	0.83
6:aB:157:ASP:OD2	7:eB:149:ARG:NH2	2.11	0.83
6:DD:115:GLU:HA	6:DD:118:ARG:HE	1.39	0.83
29:FG:201:PEB:HHB1	14:MG:174:ARG:CZ	2.08	0.83
13:kH:134:ILE:HG12	13:kH:143:ALA:HB3	1.57	0.83
6:AJ:147:GLN:CD	29:AJ:203:PEB:CMC	2.48	0.83
6:mJ:5:ILE:HG21	7:nJ:99:ALA:HA	1.60	0.83
29:pJ:202:PEB:CAD	6:qJ:33:ARG:NH1	2.40	0.83
5:DK:40:ILE:HG12	29:DK:1002:PEB:HBA1	1.59	0.83
7:LL:26:ALA:HB1	28:bP:231:ILE:HG13	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:41:ASN:ND2	16:wL:41:ASN:O	2.11	0.83
16:wL:102:ALA:HA	16:wL:105:ARG:HG3	1.59	0.83
7:DQ:27:LEU:O	7:DQ:31:ILE:HB	1.77	0.83
7:FQ:137:GLN:HE21	29:FQ:203:PEB:HHA1	1.39	0.83
6:QR:139:CYS:HB2	29:QR:202:PEB:CBA	1.77	0.83
6:WR:65:TYR:CE2	6:WR:66:LEU:HD12	2.12	0.83
8:e2:182:TYR:OH	6:W2:13:ASP:O	1.96	0.83
7:I8:18:TYR:CD1	21:nP:128:GLN:CD	2.55	0.83
7:I8:27:LEU:HD21	19:zJ:298:ALA:CB	2.08	0.83
3:BF:219:ALA:CB	27:3P:60:ALA:C	2.49	0.83
13:kH:245:VAL:CG1	6:OR:79:ILE:HG21	2.07	0.83
6:AJ:147:GLN:NE2	29:AJ:203:PEB:C3C	2.41	0.83
6:kJ:33:ARG:HE	6:mJ:25:GLU:HA	1.41	0.83
5:DK:27:LEU:O	5:DK:31:VAL:HG13	1.77	0.83
5:LK:20:SER:H	5:LK:23:GLN:HE21	1.26	0.83
6:ML:68:ASN:HB2	6:ML:71:GLU:CG	2.07	0.83
25:1P:846:PRO:HG2	25:1P:849:ASN:HD22	1.43	0.83
7:VR:61:CYS:CB	29:VR:203:PEB:CAD	2.55	0.83
7:M4:51:MET:SD	7:M4:137:GLN:HG3	2.18	0.83
13:k6:57:GLY:O	13:k6:61:ARG:HG2	1.76	0.83
3:B7:170:ARG:HA	26:2P:88:THR:CG2	2.08	0.83
3:B7:224:MET:HE3	20:rP:52:LYS:CG	2.08	0.83
4:M7:5:ILE:CB	5:N7:3:ASP:OD2	2.24	0.83
6:S7:54:GLU:OE2	6:S7:137:ARG:HD3	1.79	0.83
15:bB:341:ALA:CB	15:bB:349:LYS:CD	2.57	0.83
17:BB:182:GLU:HB3	29:BB:301:PEB:HMD2	1.61	0.83
7:LC:116:THR:CG2	18:MC:213:THR:HB	2.08	0.83
6:YJ:68:ASN:HB2	6:YJ:71:GLU:CG	2.07	0.83
5:JK:8:VAL:O	5:JK:11:GLN:OE1	1.96	0.83
6:GL:72:ALA:HB1	29:GL:201:PEB:C1A	2.09	0.83
6:mL:5:ILE:HG21	7:nL:99:ALA:HA	1.60	0.83
7:HQ:136:ALA:HB1	29:HQ:203:PEB:O2C	1.78	0.83
6:B4:29:GLY:HA2	6:B4:32:GLN:NE2	1.94	0.83
7:I5:91:ARG:CZ	28:bP:118:LEU:C	2.33	0.83
4:C7:1:MET:HE2	4:C7:109:GLU:OE1	1.77	0.83
6:J8:18:PHE:CD1	6:J8:19:PRO:HD3	2.14	0.83
7:K8:1:MET:HB3	7:K8:104:VAL:HG22	0.84	0.83
1:X9:321:TYR:CE1	5:D9:84:ARG:NH2	2.46	0.83
7:kB:125:ASN:OD1	7:kB:126:SER:N	2.11	0.83
10:dD:285:VAL:CG1	29:TI:202:PEB:CGB	2.57	0.83
7:GD:58:GLY:CA	29:GD:203:PEB:CMD	2.56	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:300:VAL:CG1	6:gL:49:GLU:CB	2.56	0.83
5:JF:26:ALA:HB1	27:3P:91:VAL:CG1	2.06	0.83
5:LF:39:ASP:OD1	29:LF:1002:PEB:CHC	2.25	0.83
7:JG:27:LEU:O	7:JG:31:ILE:HB	1.77	0.83
3:BI:212:GLN:OE1	27:aP:74:ALA:CB	2.22	0.83
16:wJ:41:ASN:ND2	16:wJ:41:ASN:O	2.11	0.83
6:bK:135:ARG:NH1	6:bK:157:ASP:CG	2.34	0.83
6:QL:68:ASN:CB	6:QL:71:GLU:OE1	2.23	0.83
19:zL:212:PHE:HD1	19:zL:216:TYR:OH	1.61	0.83
16:AM:61:ASP:CG	16:AM:146:PRO:HD2	2.03	0.83
17:BM:182:GLU:HB3	29:BM:301:PEB:HMD2	1.61	0.83
22:VP:51:ILE:HD12	22:VP:85:TYR:HB3	1.60	0.83
25:YP:664:SER:O	25:YP:668:LYS:HE2	1.79	0.83
6:OR:142:ARG:NH2	29:OR:202:PEB:C1B	2.40	0.83
5:H1:35:ASN:HD22	29:H1:1002:PEB:C2C	1.90	0.83
7:g1:101:ASP:HA	14:MA:98:LEU:HD11	1.59	0.83
10:d4:327:SER:CB	10:dD:338:GLU:CG	2.54	0.83
7:K5:1:MET:HB3	7:K5:104:VAL:HG22	0.84	0.83
29:FG:201:PEB:HBC1	14:MG:178:PHE:HB2	1.58	0.83
5:JI:106:ASP:OD1	27:aP:126:TRP:NE1	2.11	0.83
6:hK:135:ARG:NH1	6:hK:157:ASP:CG	2.34	0.83
6:jK:157:ASP:OD2	7:mK:46:SER:HB2	1.79	0.83
16:xL:251:TYR:CE2	16:xL:255:GLN:CD	2.36	0.83
6:aM:157:ASP:OD2	7:eM:149:ARG:NH2	2.11	0.83
6:jM:33:ARG:HH12	6:jM:147:GLN:NE2	1.77	0.83
20:KP:94:TYR:OH	21:OP:17:LYS:O	1.95	0.83
28:4P:225:ARG:HD3	28:4P:225:ARG:O	1.79	0.83
6:SR:118:ARG:NH1	6:UR:114:ARG:HE	1.75	0.83
4:E1:40:ALA:CB	4:E1:146:VAL:HG13	2.09	0.83
4:G1:45:THR:HG23	5:H1:18:PHE:CD2	2.14	0.83
8:e2:125:ARG:C	29:V2:201:PEB:O1C	2.21	0.83
6:B4:106:ASP:HA	6:B4:110:ILE:HG12	1.60	0.83
6:F4:33:ARG:HH22	29:I4:202:PEB:HBD1	1.39	0.83
6:H4:137:ARG:CZ	29:H4:202:PEB:O1B	2.26	0.83
1:X7:321:TYR:CE1	5:D7:84:ARG:NH2	2.46	0.83
7:m7:8:VAL:HG11	7:m7:23:ASP:OD1	1.76	0.83
15:bB:340:GLU:O	15:bB:349:LYS:CB	2.27	0.83
7:NB:25:GLN:HA	7:NB:25:GLN:NE2	1.89	0.83
6:HD:32:GLN:N	6:HD:32:GLN:OE1	2.12	0.83
18:ME:200:ARG:HG2	18:ME:237:PHE:CD1	2.13	0.83
18:ME:300:VAL:O	6:gL:49:GLU:CB	2.27	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:kH:94:LEU:HD11	13:kH:120:ILE:HD13	1.58	0.83
6:GM:138:LEU:HB2	29:GM:202:PEB:CMD	2.09	0.83
7:DO:39:ASP:CG	29:DO:202:PEB:HMD2	2.03	0.83
14:MQ:236:TYR:CE2	29:MQ:402:PEB:HMD2	2.13	0.83
6:MR:142:ARG:NH2	29:MR:202:PEB:C3B	2.39	0.83
5:J1:18:PHE:CD1	15:bB:335:ILE:HD13	2.12	0.83
6:W2:96:CYS:SG	6:W2:105:LEU:CG	2.66	0.83
7:K5:164:GLU:OE2	7:K5:168:TYR:CZ	2.31	0.83
6:S9:59:CYS:SG	6:S9:126:ALA:HB1	2.18	0.83
29:W9:202:PEB:CMA	8:eR:249:TYR:CB	2.50	0.83
7:XB:85:ASP:OD1	29:XB:201:PEB:H1D1	1.01	0.83
6:jB:33:ARG:NH1	6:jB:147:GLN:HG3	1.93	0.83
6:lB:53:LYS:HE2	6:lB:83:TYR:HE2	1.41	0.83
7:ID:171:ARG:HB2	7:ID:171:ARG:NH1	1.91	0.83
18:ME:304:TRP:NE1	6:gL:87:ASP:HB3	1.80	0.83
7:BG:141:PHE:CE2	29:BG:203:PEB:CMB	2.61	0.83
13:kH:4:LYS:HB3	13:kH:7:GLU:CG	2.08	0.83
6:IL:72:ALA:CB	29:IL:201:PEB:HMA3	2.08	0.83
6:kL:68:ASN:CB	6:kL:71:GLU:OE1	2.23	0.83
6:GN:111:ALA:HB2	29:MN:405:PEB:OA	1.77	0.83
7:HQ:137:GLN:NE2	29:HQ:203:PEB:HHA1	1.94	0.83
7:HQ:141:PHE:CZ	29:HQ:203:PEB:CMA	2.62	0.83
4:E1:7:GLU:OE1	4:K1:22:THR:HG22	1.78	0.83
8:e2:103:VAL:HG23	8:e2:104:PHE:CD1	2.13	0.83
7:N3:91:ARG:HH21	9:O3:377:ALA:HB3	1.44	0.83
6:F4:81:LYS:HA	6:F4:84:ARG:HD2	0.83	0.83
7:G4:58:GLY:N	29:G4:203:PEB:HMD3	1.92	0.83
11:D5:219:TYR:CD2	5:HK:152:ASP:HB2	2.14	0.83
12:E5:186:PRO:HG3	6:bI:57:ASP:CB	1.98	0.83
7:GD:148:GLU:OE1	7:GD:148:GLU:N	2.10	0.83
6:HD:34:SER:CB	6:HD:37:ARG:HH21	1.90	0.83
6:LD:18:PHE:HE1	7:MD:91:ARG:CD	1.92	0.83
5:JF:135:LYS:HZ3	27:3P:67:GLY:HA2	1.43	0.83
7:LG:27:LEU:O	7:LG:31:ILE:HB	1.77	0.83
6:WI:9:VAL:HG21	7:YI:1:MET:CE	2.09	0.83
6:GJ:72:ALA:HB1	29:GJ:201:PEB:C1A	2.09	0.83
6:EL:68:ASN:CB	6:EL:71:GLU:OE1	2.23	0.83
7:LL:26:ALA:HB3	28:bP:228:ILE:HG22	1.61	0.83
6:UM:43:LYS:HD3	14:MQ:115:TYR:OH	1.79	0.83
6:UR:43:LYS:HG3	6:UR:144:MET:HE3	1.61	0.83
6:h1:33:ARG:HA	6:h1:33:ARG:HH21	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N3:66:LEU:HD12	7:VL:155:ALA:HB2	1.60	0.83
7:E4:148:GLU:OE1	7:E4:148:GLU:N	2.10	0.83
7:I4:107:ASP:HA	7:I4:111:ASN:ND2	1.93	0.83
6:S9:54:GLU:OE2	6:S9:137:ARG:HD3	1.79	0.83
15:bB:384:LEU:HD23	7:FB:125:ASN:HD21	1.44	0.83
10:dD:280:SER:CB	6:WI:69:PRO:O	2.27	0.83
29:CD:202:PEB:HMD1	6:DD:150:VAL:HG11	1.61	0.83
6:LD:106:ASP:HA	6:LD:110:ILE:HG12	1.60	0.83
7:TF:85:ASP:OD1	29:TF:201:PEB:H1D1	1.78	0.83
5:FI:39:ASP:OD1	29:FI:1002:PEB:CHC	2.25	0.83
7:HJ:72:MEN:HE21	7:HJ:122:VAL:CG2	2.09	0.83
6:eJ:68:ASN:HB2	6:eJ:71:GLU:CG	2.07	0.83
19:zJ:212:PHE:HD1	19:zJ:216:TYR:OH	1.61	0.83
6:IL:73:GLY:N	29:IL:201:PEB:HMA2	1.94	0.83
16:wL:183:LYS:HG3	16:xL:40:VAL:HG22	1.61	0.83
16:xL:102:ALA:HA	16:xL:105:ARG:HG3	1.59	0.83
15:bM:381:GLU:OE1	7:FM:63:ASN:ND2	2.12	0.83
6:EM:36:ALA:CB	6:EM:147:GLN:HE21	1.92	0.83
7:NM:22:SER:CA	21:oP:147:LYS:HA	2.09	0.83
20:gP:13:ALA:HB2	25:1P:507:LYS:HB3	1.60	0.83
6:QR:37:ARG:HH12	6:QR:98:VAL:CA	1.92	0.83
5:H1:152:ASP:CB	11:D8:219:TYR:CE2	2.61	0.82
29:e2:401:PEB:HMA1	7:P2:59:MET:HE1	1.61	0.82
6:M2:43:LYS:NZ	29:M2:202:PEB:CBD	2.41	0.82
6:U2:138:LEU:CD2	29:U2:202:PEB:CAD	2.54	0.82
6:F4:106:ASP:HA	6:F4:110:ILE:HG12	1.60	0.82
3:B7:207:ARG:NH1	27:3P:61:ARG:HH12	1.76	0.82
6:GB:138:LEU:HB2	29:GB:202:PEB:CMD	2.09	0.82
7:ED:133:ILE:HG13	29:ED:202:PEB:HBC1	1.60	0.82
4:MK:19:LEU:HD11	5:NK:98:ILE:HD12	1.60	0.82
6:OK:52:VAL:HG13	6:OK:86:VAL:CG1	2.09	0.82
6:IK:135:ARG:NH1	6:IK:157:ASP:CG	2.34	0.82
7:ZL:108:ARG:NE	16:xL:41:ASN:HB3	1.93	0.82
17:BM:81:ALA:CB	7:RM:115:GLU:CD	2.51	0.82
17:BM:196:ILE:HG23	7:TM:115:GLU:OE1	1.78	0.82
7:NM:129:ARG:HG3	28:4P:121:HIS:CB	2.09	0.82
4:M1:94:MET:HG3	4:M1:111:LEU:HD11	1.61	0.82
6:O1:52:VAL:HG13	6:O1:86:VAL:CG1	2.09	0.82
8:e2:235:SER:HG	29:e2:401:PEB:C4D	1.90	0.82
6:Q2:142:ARG:CD	29:Q2:202:PEB:HHA1	2.10	0.82
6:H4:32:GLN:OE1	6:H4:32:GLN:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:18:PHE:HE1	7:M4:91:ARG:CD	1.92	0.82
7:I5:30:PHE:CZ	28:bP:132:PRO:HD3	2.14	0.82
7:K8:164:GLU:OE2	7:K8:168:TYR:CZ	2.31	0.82
18:MC:286:GLN:HA	5:DF:18:PHE:HB2	1.61	0.82
6:FD:81:LYS:HA	6:FD:84:ARG:HD2	0.83	0.82
7:ID:174:ALA:HB1	6:WI:76:GLN:CG	2.09	0.82
18:ME:241:ALA:HB2	6:SI:133:TYR:HH	0.92	0.82
18:ME:303:PHE:HB2	6:gL:83:TYR:HD2	1.41	0.82
6:KG:2:LYS:NZ	30:MG:402:PUB:HBB2	1.91	0.82
14:MG:105:LYS:HG3	14:MG:106:ASP:N	1.91	0.82
6:uJ:14:ALA:O	16:xJ:74:GLN:CG	2.27	0.82
6:KM:21:ASN:ND2	6:MM:101:GLY:HA2	1.93	0.82
7:DQ:140:ALA:HB3	29:DQ:203:PEB:CMB	2.08	0.82
7:FQ:50:CYS:C	29:FQ:203:PEB:HAA2	2.02	0.82
29:FQ:201:PEB:CMC	14:MQ:181:TYR:HE2	1.62	0.82
5:J1:15:ARG:HD2	15:bB:333:ARG:NE	1.93	0.82
12:E5:40:VAL:O	7:a9:26:ALA:HB2	1.80	0.82
6:DD:94:ASN:HD22	7:ED:18:TYR:HD1	1.25	0.82
3:BF:226:GLN:HB2	5:JF:152:ASP:HA	1.61	0.82
7:FG:57:SER:HA	7:FG:60:ILE:CG2	2.09	0.82
7:FG:137:GLN:NE2	29:FG:203:PEB:C1B	2.42	0.82
4:EI:1:MET:HG2	4:EI:109:GLU:OE2	1.79	0.82
6:QJ:47:ASN:HD22	29:QJ:202:PEB:C4D	1.93	0.82
3:BK:204:ARG:HD3	3:BK:204:ARG:C	2.03	0.82
4:MK:94:MET:HG3	4:MK:111:LEU:HD11	1.61	0.82
7:HL:72:MEN:O	7:HL:78:ARG:HD2	1.79	0.82
6:IL:137:ARG:NH2	29:IL:202:PEB:NC	2.26	0.82
6:ML:40:ALA:HA	6:ML:144:MET:CE	2.09	0.82
7:LM:70:GLY:C	7:RM:125:ASN:ND2	2.37	0.82
6:AQ:157:ASP:HB2	7:DQ:46:SER:HA	1.61	0.82
3:B1:16:ARG:NH2	31:N1:1001:CYC:HBB1	1.94	0.82
6:j1:157:ASP:OD2	7:m1:46:SER:HB2	1.79	0.82
6:U2:50:ALA:O	6:U2:54:GLU:HG2	1.79	0.82
7:C4:148:GLU:OE1	7:C4:148:GLU:N	2.10	0.82
18:MC:65:LYS:HD2	18:MC:98:LEU:HD21	1.61	0.82
18:MC:242:LYS:HG3	29:SF:202:PEB:HBB2	0.82	0.82
6:IJ:137:ARG:NH2	29:IJ:202:PEB:NC	2.26	0.82
6:sJ:10:SER:HB2	16:xJ:82:TYR:N	1.93	0.82
5:JK:18:PHE:HD1	15:bM:335:ILE:HD12	1.44	0.82
6:uL:68:ASN:CB	6:uL:71:GLU:OE1	2.23	0.82
21:FP:71:MEN:O	21:FP:77:ARG:HD3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1P:135:ILE:HG21	25:1P:138:VAL:HG23	1.60	0.82
28:4P:46:THR:HB	28:4P:57:TYR:HA	1.61	0.82
29:eR:401:PEB:HAA2	7:PR:82:CYS:HB2	1.59	0.82
4:C1:40:ALA:HB2	4:C1:146:VAL:HG13	1.59	0.82
6:l1:135:ARG:NH1	6:l1:157:ASP:CG	2.34	0.82
8:e2:107:ALA:HB1	8:e2:146:ARG:HE	1.43	0.82
6:D4:94:ASN:HD22	7:E4:18:TYR:HD1	1.25	0.82
3:B9:24:PRO:O	4:C9:15:GLN:HG2	1.80	0.82
7:LB:70:GLY:C	7:RB:125:ASN:ND2	2.37	0.82
6:FD:33:ARG:HH22	29:ID:202:PEB:HBD1	1.44	0.82
7:MD:148:GLU:N	7:MD:148:GLU:OE1	2.10	0.82
18:ME:303:PHE:CE2	6:gL:83:TYR:CE2	2.68	0.82
6:AG:157:ASP:HB2	7:DG:46:SER:HA	1.61	0.82
6:aJ:68:ASN:CB	6:aJ:71:GLU:OE1	2.23	0.82
5:JK:11:GLN:HG2	15:bM:333:ARG:HH21	1.37	0.82
6:SK:52:VAL:HG13	6:SK:86:VAL:CG1	2.10	0.82
6:AL:137:ARG:HH22	29:AL:202:PEB:C1B	1.92	0.82
21:DP:17:LYS:HE3	23:WP:134:ARG:HD2	1.60	0.82
7:DQ:140:ALA:HB3	29:DQ:203:PEB:HMB1	1.59	0.82
6:WR:97:LEU:HD23	6:WR:155:TYR:CE2	2.15	0.82
6:U1:154:ALA:CA	6:U1:157:ASP:OD1	2.27	0.82
6:f1:52:VAL:HG13	6:f1:86:VAL:CG1	2.10	0.82
12:E5:185:ALA:CB	6:bI:67:LYS:NZ	2.41	0.82
12:E8:162:ASN:O	29:kF:203:PEB:HHB1	1.79	0.82
7:CD:148:GLU:OE1	7:CD:148:GLU:N	2.10	0.82
6:FD:33:ARG:HB3	6:FD:33:ARG:NH1	1.94	0.82
6:LD:18:PHE:HE1	7:MD:91:ARG:HG3	1.29	0.82
7:LE:7:ARG:HD2	18:ME:258:THR:HG22	1.60	0.82
3:BF:204:ARG:NH1	21:uP:57:ALA:HB1	1.94	0.82
6:GG:114:ARG:HD2	6:IG:114:ARG:HH11	1.43	0.82
13:kH:245:VAL:HG13	6:OR:79:ILE:HG21	1.59	0.82
7:NJ:114:LYS:HE3	7:NJ:177:SER:OXT	1.80	0.82
6:mJ:68:ASN:CB	6:mJ:71:GLU:OE1	2.23	0.82
16:wJ:102:ALA:HA	16:wJ:105:ARG:HG3	1.59	0.82
6:gL:68:ASN:ND2	6:gL:71:GLU:CD	2.38	0.82
21:DP:90:ARG:CZ	20:CP:15:ALA:HA	2.09	0.82
6:UR:50:ALA:O	6:UR:54:GLU:HG2	1.79	0.82
6:W9:62:LYS:HE2	8:eR:276:PHE:O	1.79	0.82
6:gJ:68:ASN:CB	6:gJ:71:GLU:OE1	2.24	0.82
5:DK:40:ILE:HD12	5:DK:156:LEU:HD13	1.61	0.82
6:QK:52:VAL:HG13	6:QK:86:VAL:CG1	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:QL:68:ASN:ND2	6:QL:71:GLU:CD	2.38	0.82
6:eL:68:ASN:CB	6:eL:71:GLU:OE1	2.23	0.82
19:zL:332:LEU:CD2	20:NP:63:PRO:HB2	2.08	0.82
19:zL:343:GLN:CG	20:GP:60:GLN:O	2.25	0.82
25:YP:135:ILE:HG21	25:YP:138:VAL:HG23	1.60	0.82
7:DQ:141:PHE:CZ	29:DQ:203:PEB:HMA1	2.07	0.82
5:D1:40:ILE:HD12	5:D1:156:LEU:HD13	1.61	0.82
7:I5:13:ASP:OD2	7:I5:16:ALA:HB3	1.78	0.82
6:J8:18:PHE:CD2	7:K8:91:ARG:HD2	2.14	0.82
6:U9:67:LYS:HZ1	13:kH:259:SER:CB	1.91	0.82
7:LC:7:ARG:HD3	18:MC:258:THR:CG2	2.10	0.82
6:AJ:137:ARG:HH22	29:AJ:202:PEB:C1B	1.92	0.82
6:QJ:73:GLY:C	6:QJ:78:LYS:CD	2.53	0.82
6:hK:52:VAL:HG13	6:hK:86:VAL:CG1	2.10	0.82
6:jK:52:VAL:HG13	6:jK:86:VAL:CG1	2.10	0.82
29:lL:202:PEB:HMC1	6:mL:147:GLN:OE1	1.79	0.82
6:GM:157:ASP:OD2	7:JM:46:SER:CA	2.28	0.82
28:bP:46:THR:HB	28:bP:57:TYR:HA	1.61	0.82
6:OR:97:LEU:HD23	6:OR:155:TYR:CE2	2.15	0.82
6:QR:97:LEU:HD23	6:QR:155:TYR:CE2	2.15	0.82
3:B1:202:PRO:HB3	5:L1:65:GLN:HE21	1.45	0.82
12:E5:186:PRO:CD	6:bI:57:ASP:HB2	2.09	0.82
7:LC:7:ARG:HH12	18:MC:258:THR:HG23	1.42	0.82
18:MC:236:ASP:OD2	29:SF:202:PEB:H2A1	0.86	0.82
7:GD:136:ALA:CB	29:GD:203:PEB:CGC	2.57	0.82
7:eF:68:SER:HG	7:eF:69:PRO:HD2	1.45	0.82
6:mJ:68:ASN:ND2	6:mJ:71:GLU:CD	2.38	0.82
7:cK:46:SER:HB2	6:dK:157:ASP:OD2	1.80	0.82
21:OP:10:ASN:ND2	28:bP:49:GLY:O	2.13	0.82
5:L1:20:SER:H	5:L1:23:GLN:HE21	1.26	0.82
7:G4:39:ASP:OD1	7:G4:39:ASP:O	1.98	0.82
13:k6:271:LEU:HD13	6:U7:80:ASN:OD1	1.80	0.82
5:F9:15:ARG:HH12	7:a9:62:GLU:CB	1.92	0.82
7:c9:52:VAL:HG11	7:c9:87:GLU:HG3	1.62	0.82
6:KA:37:ARG:HG2	6:KA:97:LEU:O	1.80	0.82
6:KB:21:ASN:ND2	6:MB:101:GLY:HA2	1.93	0.82
18:MC:242:LYS:CD	29:SF:202:PEB:HBB1	2.04	0.82
18:ME:229:GLU:HG3	18:ME:242:LYS:HE2	1.62	0.82
18:ME:233:ALA:H	18:ME:236:ASP:CG	1.87	0.82
7:JG:137:GLN:HE22	29:JG:203:PEB:HHA1	1.45	0.82
6:IJ:72:ALA:CB	29:IJ:201:PEB:HMA3	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XK:125:LEU:HD12	1:XK:195:TYR:OH	1.80	0.82
4:KK:19:LEU:CD1	5:LK:98:ILE:HD12	2.09	0.82
5:NK:33:GLU:HG3	5:NK:36:GLN:CG	2.09	0.82
6:QL:47:ASN:HD22	29:QL:202:PEB:C4D	1.93	0.82
19:zL:316:PHE:HE2	20:NP:83:ARG:NH1	1.77	0.82
6:QM:54:GLU:OE2	29:QM:204:PEB:C3C	2.28	0.82
7:RM:61:CYS:CB	29:RM:203:PEB:CBD	2.50	0.82
6:UM:142:ARG:HH12	14:MQ:111:ARG:CZ	1.93	0.82
7:LQ:58:GLY:CA	29:LQ:202:PEB:CMC	2.55	0.82
5:J1:18:PHE:HB2	15:bB:335:ILE:CD1	2.10	0.81
6:j1:52:VAL:HG13	6:j1:86:VAL:CG1	2.10	0.81
10:d4:331:GLN:HB3	10:dD:335:LEU:HD11	1.62	0.81
7:I5:27:LEU:HD21	19:zL:298:ALA:CB	2.10	0.81
12:E8:91:MET:HE2	6:ZF:142:ARG:HH11	1.45	0.81
5:F9:17:GLU:CG	8:eR:301:PHE:CE2	2.61	0.81
5:F9:62:GLU:OE2	7:a9:15:LYS:HA	1.80	0.81
6:W9:142:ARG:HH12	29:W9:202:PEB:C4B	1.90	0.81
15:bB:349:LYS:HE2	20:KP:68:PRO:CD	2.09	0.81
6:WF:9:VAL:HG21	7:YF:1:MET:CE	2.09	0.81
6:MJ:68:ASN:HD22	6:MJ:71:GLU:CD	1.88	0.81
6:QJ:68:ASN:HD22	6:QJ:71:GLU:CD	1.88	0.81
6:YJ:68:ASN:ND2	6:YJ:71:GLU:CD	2.38	0.81
5:JK:20:SER:H	5:JK:23:GLN:HE21	1.25	0.81
6:UK:154:ALA:CA	6:UK:157:ASP:OD1	2.27	0.81
7:VK:159:THR:CB	14:MN:103:ARG:CG	2.55	0.81
6:dK:52:VAL:HG13	6:dK:86:VAL:CG1	2.10	0.81
29:LL:201:PEB:OD	19:zL:215:THR:O	1.98	0.81
6:QL:73:GLY:C	6:QL:78:LYS:CD	2.53	0.81
6:eL:68:ASN:HD22	6:eL:71:GLU:CD	1.88	0.81
6:oL:68:ASN:ND2	6:oL:71:GLU:CD	2.38	0.81
6:MM:54:GLU:OE1	29:MM:202:PEB:C3C	2.28	0.81
29:FN:201:PEB:CBD	14:MN:181:TYR:CD2	2.62	0.81
6:KN:37:ARG:HG2	6:KN:97:LEU:O	1.80	0.81
6:S1:52:VAL:HG13	6:S1:86:VAL:CG1	2.10	0.81
6:O2:97:LEU:HD23	6:O2:155:TYR:CE2	2.15	0.81
6:W2:138:LEU:HD11	6:W2:143:ASP:HB3	1.61	0.81
6:H4:113:ALA:CB	7:M4:76:ASN:HD21	1.91	0.81
4:K7:113:ALA:O	5:N7:76:SER:HB3	1.81	0.81
16:AB:61:ASP:CG	16:AB:146:PRO:HD2	2.03	0.81
6:GB:157:ASP:OD2	7:JB:46:SER:CA	2.28	0.81
7:iB:114:LYS:NZ	7:iB:177:SER:O	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:1:MET:HG2	4:EF:109:GLU:OE2	1.79	0.81
4:EF:145:GLN:NE2	29:LF:1002:PEB:HMC2	1.95	0.81
4:EI:145:GLN:NE2	29:LI:1002:PEB:HMC2	1.95	0.81
5:JI:135:LYS:NZ	27:aP:67:GLY:HA2	1.93	0.81
6:MJ:33:ARG:CZ	6:MJ:147:GLN:HE22	1.92	0.81
6:QJ:68:ASN:CB	6:QJ:71:GLU:OE1	2.23	0.81
2:AK:103:CYS:CB	30:AK:305:PUB:CAA	2.50	0.81
6:YL:68:ASN:CB	6:YL:71:GLU:OE1	2.23	0.81
6:aL:68:ASN:HD22	6:aL:71:GLU:CD	1.88	0.81
6:IO:53:LYS:NZ	6:IO:54:GLU:OE2	2.14	0.81
6:KO:54:GLU:OE2	29:KO:202:PEB:HMC3	1.77	0.81
6:QR:37:ARG:NH1	6:QR:97:LEU:C	2.37	0.81
5:J1:18:PHE:CB	15:bB:335:ILE:CD1	2.57	0.81
4:K1:19:LEU:CD1	5:L1:98:ILE:HD12	2.09	0.81
6:U1:52:VAL:HG13	6:U1:86:VAL:CG1	2.09	0.81
6:f1:28:GLN:CD	6:h1:33:ARG:NH1	2.38	0.81
6:h1:52:VAL:HG13	6:h1:86:VAL:CG1	2.10	0.81
8:e2:125:ARG:CA	29:V2:201:PEB:O1C	2.27	0.81
8:e2:276:PHE:O	6:W7:62:LYS:HE2	1.81	0.81
6:M2:138:LEU:HD13	29:M2:202:PEB:CMD	2.09	0.81
6:B4:113:ALA:O	6:B4:116:VAL:N	2.14	0.81
6:D4:106:ASP:HA	6:D4:110:ILE:HG12	1.60	0.81
7:G4:76:ASN:ND2	6:J4:113:ALA:HA	1.90	0.81
7:I5:30:PHE:CZ	28:bP:132:PRO:HD2	2.16	0.81
12:E5:91:MET:HE2	6:ZI:142:ARG:HH11	1.45	0.81
3:B7:24:PRO:O	4:C7:15:GLN:HG2	1.80	0.81
4:K7:57:GLN:OE1	5:JF:145:THR:HB	1.72	0.81
6:U7:141:PRO:CB	7:XB:25:GLN:HE21	1.91	0.81
7:k7:52:VAL:HG11	7:k7:87:GLU:HG3	1.62	0.81
7:I8:74:TYR:CD1	15:bM:238:ARG:NH1	2.48	0.81
4:K9:52:ILE:HD13	20:vP:68:PRO:HG3	1.58	0.81
5:L9:63:GLN:HE22	27:3P:284:VAL:HG21	1.44	0.81
6:W9:140:VAL:CG1	6:W9:146:ALA:CA	2.46	0.81
7:k9:52:VAL:HG11	7:k9:87:GLU:HG3	1.62	0.81
6:KB:54:GLU:OE1	29:KB:202:PEB:C3C	2.29	0.81
6:MB:54:GLU:OE1	29:MB:202:PEB:C3C	2.28	0.81
6:OB:54:GLU:OE1	29:OB:202:PEB:C3C	2.29	0.81
6:DD:106:ASP:HA	6:DD:110:ILE:HG12	1.60	0.81
6:FD:106:ASP:HA	6:FD:110:ILE:HG12	1.60	0.81
6:JD:106:ASP:HA	6:JD:110:ILE:HG12	1.59	0.81
6:JD:113:ALA:O	6:JD:116:VAL:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:gF:1:MET:O	7:gF:2:LEU:HD12	1.80	0.81
7:gI:1:MET:O	7:gI:2:LEU:HD12	1.80	0.81
6:EJ:68:ASN:CB	6:EJ:71:GLU:OE1	2.23	0.81
6:MJ:68:ASN:ND2	6:MJ:71:GLU:CD	2.38	0.81
7:NJ:65:GLY:HA3	7:fJ:65:GLY:HA3	1.61	0.81
6:SJ:33:ARG:HH12	6:SJ:147:GLN:HG2	0.68	0.81
6:aJ:68:ASN:ND2	6:aJ:71:GLU:CD	2.38	0.81
6:kJ:68:ASN:ND2	6:kJ:71:GLU:CD	2.38	0.81
19:zJ:332:LEU:CD2	20:pP:64:ASP:HA	2.09	0.81
6:EL:68:ASN:HD22	6:EL:71:GLU:CD	1.88	0.81
7:NL:65:GLY:HA3	7:fL:65:GLY:HA3	1.61	0.81
6:QL:68:ASN:HD22	6:QL:71:GLU:CD	1.88	0.81
6:WL:74:GLU:H	6:WL:78:LYS:HG3	1.46	0.81
6:YL:68:ASN:HD22	6:YL:71:GLU:CD	1.88	0.81
6:kL:68:ASN:ND2	6:kL:71:GLU:CD	2.38	0.81
6:mL:68:ASN:CB	6:mL:71:GLU:OE1	2.23	0.81
6:aM:54:GLU:OE1	29:aM:202:PEB:C3C	2.29	0.81
6:fM:54:GLU:OE1	29:fM:202:PEB:C3C	2.29	0.81
21:BP:71:MEN:O	21:BP:77:ARG:HD3	1.80	0.81
21:qP:71:MEN:O	21:qP:77:ARG:HD3	1.80	0.81
6:CQ:2:LYS:HZ2	14:MQ:138:SER:C	1.87	0.81
7:DQ:140:ALA:CB	29:DQ:203:PEB:HMB1	2.11	0.81
7:HQ:140:ALA:CB	29:HQ:203:PEB:HBB2	2.09	0.81
8:eR:57:PHE:HB3	7:TR:84:ARG:HD3	1.62	0.81
6:b1:52:VAL:HG13	6:b1:86:VAL:CG1	2.09	0.81
6:W2:65:TYR:CE2	6:W2:66:LEU:CD1	2.63	0.81
6:I3:53:LYS:NZ	6:I3:54:GLU:OE2	2.14	0.81
7:C4:58:GLY:CA	29:C4:203:PEB:C3D	2.58	0.81
6:D4:113:ALA:O	6:D4:116:VAL:N	2.14	0.81
7:I5:79:MET:SD	15:bB:229:LEU:O	2.38	0.81
13:k6:10:TYR:CE1	6:YB:53:LYS:HD3	2.16	0.81
13:k6:17:TRP:CH2	13:k6:134:ILE:CD1	2.64	0.81
3:B7:172:LYS:CB	26:2P:86:PRO:HD3	2.09	0.81
6:U7:141:PRO:HB2	7:XB:25:GLN:HE21	1.45	0.81
6:YB:54:GLU:OE1	29:YB:203:PEB:C3C	2.29	0.81
6:fB:54:GLU:OE1	29:fB:202:PEB:C3C	2.29	0.81
29:LC:201:PEB:CBB	18:MC:219:SER:HB3	2.10	0.81
18:MC:240:ARG:HD3	6:SF:133:TYR:HE1	1.45	0.81
4:IF:1:MET:HG2	4:IF:109:GLU:OE2	1.79	0.81
7:FG:108:ARG:HH11	14:MG:203:GLN:NE2	1.76	0.81
6:oJ:68:ASN:HD22	6:oJ:71:GLU:CD	1.88	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zL:329:ILE:HD11	20:NP:59:PHE:CD2	2.13	0.81
21:UP:72:MET:HA	21:UP:77:ARG:CB	2.10	0.81
21:dP:90:ARG:CZ	20:eP:15:ALA:CA	2.55	0.81
21:oP:62:TYR:C	21:oP:67:ARG:HH22	1.88	0.81
21:sP:67:ARG:HG3	21:sP:68:PRO:CD	2.11	0.81
22:xP:51:ILE:HD12	22:xP:85:TYR:HB3	1.60	0.81
6:h1:135:ARG:NH1	6:h1:157:ASP:CG	2.34	0.81
10:d4:331:GLN:C	10:dD:331:GLN:NE2	2.39	0.81
6:J5:64:ALA:CB	20:NP:41:GLN:HE22	1.93	0.81
4:K7:57:GLN:NE2	5:JF:145:THR:OG1	2.14	0.81
7:L8:104:VAL:CG2	4:I9:68:GLN:NE2	2.44	0.81
12:E8:186:PRO:CD	6:bF:57:ASP:CB	2.59	0.81
6:QB:54:GLU:OE2	29:QB:204:PEB:C3C	2.28	0.81
18:MC:261:VAL:HG21	6:SF:68:ASN:HA	1.61	0.81
6:JD:32:GLN:N	6:JD:32:GLN:OE1	2.13	0.81
3:BF:217:ASP:OD1	27:3P:59:LYS:HB3	1.80	0.81
6:fF:9:VAL:HG21	7:gF:1:MET:HE3	1.60	0.81
13:kH:17:TRP:CH2	13:kH:134:ILE:CD1	2.64	0.81
29:IJ:202:PEB:HMC1	6:mJ:147:GLN:OE1	1.79	0.81
16:xJ:102:ALA:HA	16:xJ:105:ARG:HG3	1.59	0.81
4:GK:21:ASN:HD21	4:IK:152:ALA:CB	1.91	0.81
6:hK:135:ARG:NH1	6:hK:157:ASP:OD1	2.14	0.81
7:FL:139:VAL:HG21	25:1P:516:SER:HA	1.62	0.81
7:TL:157:ASP:OD2	25:1P:558:ASN:ND2	2.13	0.81
6:aL:68:ASN:CB	6:aL:71:GLU:OE1	2.23	0.81
16:wL:176:TYR:CA	16:xL:39:LEU:HD12	2.08	0.81
7:DM:85:ASP:CG	29:DM:201:PEB:HHC1	2.05	0.81
7:HM:125:ASN:ND2	7:ZM:70:GLY:HA3	1.95	0.81
6:UM:54:GLU:OE1	29:MQ:401:PEB:C3C	2.29	0.81
7:HN:111:ASN:ND2	14:MN:317:SER:OG	2.14	0.81
21:jP:114:GLU:HG2	25:1P:465:LEU:HD11	1.60	0.81
6:WR:65:TYR:CE2	6:WR:66:LEU:CD1	2.63	0.81
5:J1:17:GLU:OE2	5:J1:17:GLU:N	2.12	0.81
6:d1:33:ARG:HA	6:d1:33:ARG:NE	1.95	0.81
6:d1:52:VAL:HG13	6:d1:86:VAL:CG1	2.10	0.81
10:d4:331:GLN:CG	10:dD:335:LEU:HD13	2.06	0.81
7:L5:79:MET:HE1	13:k6:233:VAL:CB	2.11	0.81
5:J7:71:GLY:O	5:J7:78:ARG:NH1	2.13	0.81
7:I8:79:MET:HE2	15:bM:229:LEU:HD12	1.61	0.81
15:bB:407:THR:HG22	28:bP:81:VAL:HG13	1.63	0.81
7:DB:85:ASP:CG	29:DB:201:PEB:HHC1	2.05	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GB:138:LEU:HB2	29:GB:202:PEB:HMD1	1.63	0.81
7:NB:25:GLN:HG2	21:MP:147:LYS:CB	2.10	0.81
18:ME:242:LYS:HB2	29:SI:202:PEB:CBB	2.09	0.81
5:HF:39:ASP:CG	29:HF:1002:PEB:HHC1	2.06	0.81
6:EG:1:MET:HB2	14:MG:196:ASN:ND2	1.95	0.81
6:IJ:73:GLY:N	29:IJ:201:PEB:HMA2	1.94	0.81
6:aJ:68:ASN:HD22	6:aJ:71:GLU:CD	1.88	0.81
4:EK:40:ALA:CB	4:EK:146:VAL:HG13	2.09	0.81
6:eL:68:ASN:ND2	6:eL:71:GLU:CD	2.38	0.81
6:UM:53:LYS:O	14:MQ:100:THR:CG2	2.27	0.81
7:gM:61:CYS:CB	29:gM:203:PEB:HBD2	2.11	0.81
7:iM:114:LYS:NZ	7:iM:177:SER:O	2.13	0.81
6:AN:37:ARG:HG2	6:AN:97:LEU:O	1.81	0.81
6:IN:21:ASN:OD1	6:IN:24:LEU:HD12	1.81	0.81
20:JP:25:ARG:HD3	20:NP:25:ARG:HB3	1.63	0.81
25:YP:846:PRO:HG2	25:YP:849:ASN:HD22	1.43	0.81
6:AQ:38:LEU:CD2	6:AQ:97:LEU:C	2.53	0.81
6:MR:81:LYS:CD	29:MR:201:PEB:HAB2	2.11	0.81
7:NR:77:ARG:NH1	29:NR:201:PEB:CGB	2.37	0.81
6:QR:137:ARG:CG	29:QR:202:PEB:HHC1	2.10	0.81
7:c1:46:SER:HB2	6:d1:157:ASP:OD2	1.80	0.81
7:N3:70:GLY:C	7:VL:154:ALA:CB	2.52	0.81
6:B4:29:GLY:O	6:B4:32:GLN:NE2	2.14	0.81
6:F4:113:ALA:O	6:F4:116:VAL:N	2.14	0.81
7:I4:174:ALA:HB1	6:WF:76:GLN:CG	2.09	0.81
11:D5:260:THR:HG22	7:TK:150:LYS:CB	1.85	0.81
7:I8:13:ASP:OD2	7:I8:16:ALA:HB3	1.78	0.81
7:I8:77:ARG:NH1	29:I8:201:PEB:CGB	2.36	0.81
4:E9:85:ALA:HB1	8:eR:296:PRO:HG2	1.61	0.81
6:aB:54:GLU:OE1	29:aB:202:PEB:C3C	2.29	0.81
6:KC:44:LEU:HD11	6:KC:152:PHE:CZ	2.16	0.81
5:FF:39:ASP:CG	29:FF:1002:PEB:HHC1	2.06	0.81
5:Nf:74:TYR:O	5:Nf:75:THR:HG23	1.81	0.81
7:FG:58:GLY:CA	29:FG:203:PEB:HMD2	2.10	0.81
5:LI:39:ASP:OD1	29:LI:1002:PEB:CHC	2.25	0.81
6:EJ:68:ASN:HD22	6:EJ:71:GLU:CD	1.88	0.81
6:eJ:68:ASN:ND2	6:eJ:71:GLU:CD	2.38	0.81
6:uJ:68:ASN:ND2	6:uJ:71:GLU:CD	2.38	0.81
5:LK:36:GLN:NE2	29:LK:1002:PEB:C2B	2.43	0.81
7:HL:72:MEN:HE22	7:HL:122:VAL:HG22	1.62	0.81
6:ML:68:ASN:ND2	6:ML:71:GLU:CD	2.38	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mL:68:ASN:ND2	6:mL:71:GLU:CD	2.38	0.81
6:OM:54:GLU:OE1	29:OM:202:PEB:C3C	2.29	0.81
21:MP:72:MET:HA	21:MP:77:ARG:HB3	1.62	0.81
26:ZP:121:VAL:O	26:ZP:125:ASP:CG	2.24	0.81
5:N1:33:GLU:HG3	5:N1:36:GLN:CG	2.09	0.81
8:e2:147:PHE:CZ	8:e2:163:HIS:HE1	1.99	0.81
7:R2:84:ARG:O	7:R2:87:GLU:HG2	1.81	0.81
6:W2:97:LEU:HD23	6:W2:155:TYR:CE2	2.15	0.81
7:I5:14:ALA:HA	21:LP:124:GLY:N	1.96	0.81
13:k6:261:MET:HG3	6:U7:83:TYR:CZ	2.04	0.81
7:I8:79:MET:SD	15:bM:229:LEU:O	2.39	0.81
7:L8:79:MET:CE	13:kH:233:VAL:HB	2.10	0.81
6:EA:37:ARG:CD	6:EA:97:LEU:O	2.29	0.81
6:QB:54:GLU:OE1	29:QB:204:PEB:CMC	2.29	0.81
6:UB:54:GLU:OE1	29:UB:202:PEB:C3C	2.29	0.81
10:dD:237:LEU:HD11	7:ED:2:LEU:HG	1.61	0.81
3:BF:225:VAL:CG1	20:TP:75:GLU:O	2.18	0.81
6:EJ:68:ASN:ND2	6:EJ:71:GLU:CD	2.38	0.81
6:QJ:68:ASN:ND2	6:QJ:71:GLU:CD	2.38	0.81
5:JK:17:GLU:HB3	15:bM:340:GLU:HG2	0.82	0.81
5:JK:33:GLU:OE1	5:JK:156:LEU:CD1	2.29	0.81
6:SL:33:ARG:CD	6:SL:147:GLN:HE21	1.90	0.81
6:UL:63:TYR:HB2	6:UL:66:LEU:CD1	2.10	0.81
16:wL:183:LYS:HE3	16:xL:40:VAL:HG12	1.61	0.81
6:IM:53:LYS:HE2	6:IM:83:TYR:HE2	1.41	0.81
6:GN:21:ASN:OD1	6:GN:24:LEU:HD12	1.81	0.81
6:SR:139:CYS:SG	6:SR:142:ARG:HD2	2.20	0.81
7:VR:61:CYS:HB3	29:VR:203:PEB:HBD2	1.61	0.81
6:O2:142:ARG:HH11	6:IB:76:GLN:CG	1.94	0.81
6:Q2:37:ARG:HH12	6:Q2:98:VAL:CA	1.92	0.81
6:Q2:97:LEU:HD23	6:Q2:155:TYR:CE2	2.15	0.81
6:U2:17:ARG:NH2	6:W2:2:LYS:HZ1	1.77	0.81
10:d4:335:LEU:HD11	10:dD:331:GLN:CD	1.83	0.81
7:E4:149:ARG:HB2	29:E4:203:PEB:OA	1.81	0.81
7:V9:150:LYS:CB	13:kH:61:ARG:NH1	2.37	0.81
6:WB:147:GLN:OE1	29:ZB:202:PEB:O1C	1.99	0.81
18:MC:128:TYR:CD2	18:MC:231:THR:HG22	2.15	0.81
18:MC:148:GLU:OE2	18:MC:152:HIS:HE1	1.63	0.81
7:GD:39:ASP:O	7:GD:39:ASP:OD1	1.98	0.81
7:BG:146:ALA:HA	29:BG:203:PEB:O1B	1.81	0.81
7:JG:108:ARG:NE	14:MG:257:THR:HG22	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:II:1:MET:HG2	4:II:109:GLU:OE2	1.79	0.81
5:NI:74:TYR:O	5:NI:75:THR:HG23	1.81	0.81
6:bK:52:VAL:HG13	6:bK:86:VAL:CG1	2.09	0.81
6:SL:67:LYS:NZ	26:ZP:121:VAL:HG13	1.89	0.81
6:WM:147:GLN:OE1	29:ZM:202:PEB:O1C	1.99	0.81
6:IO:140:VAL:HG13	6:IO:146:ALA:CA	2.02	0.81
7:NO:91:ARG:NH2	9:OO:377:ALA:HB3	1.96	0.81
6:MR:142:ARG:NH2	29:MR:202:PEB:C2B	2.42	0.81
7:RR:84:ARG:O	7:RR:87:GLU:HG2	1.81	0.81
6:UR:97:LEU:HD23	6:UR:155:TYR:CE2	2.15	0.81
3:B1:17:VAL:CG1	31:N1:1001:CYC:OB	2.28	0.81
6:W2:138:LEU:CD1	6:W2:143:ASP:CB	2.58	0.81
6:J4:32:GLN:OE1	6:J4:32:GLN:N	2.13	0.81
12:E5:43:ALA:HB1	7:a9:29:SER:OG	1.81	0.81
18:MC:232:MET:CE	6:SF:142:ARG:CZ	2.58	0.81
10:dD:280:SER:HB2	6:WI:70:GLY:CA	2.08	0.81
6:FD:32:GLN:N	6:FD:32:GLN:OE1	2.13	0.81
18:ME:65:LYS:HD2	18:ME:98:LEU:HD21	1.61	0.81
18:ME:309:PRO:HD2	18:ME:310:SER:N	1.94	0.81
4:KF:70:PRO:CD	9:OO:308:TYR:CD2	2.64	0.81
6:AG:38:LEU:CD2	6:AG:97:LEU:C	2.53	0.81
6:gJ:68:ASN:ND2	6:gJ:71:GLU:CD	2.38	0.81
5:JK:17:GLU:CB	15:bM:335:ILE:CB	2.23	0.81
6:UK:52:VAL:HG13	6:UK:86:VAL:CG1	2.09	0.81
6:aL:68:ASN:ND2	6:aL:71:GLU:CD	2.38	0.81
6:uL:68:ASN:ND2	6:uL:71:GLU:CD	2.38	0.81
16:wL:170:GLU:O	16:xL:52:THR:CG2	2.28	0.81
19:zL:332:LEU:CD2	20:NP:63:PRO:O	2.28	0.81
6:EN:21:ASN:OD1	6:EN:24:LEU:HD12	1.81	0.81
20:GP:12:ASP:OD2	23:WP:113:ARG:NH2	2.13	0.81
23:WP:63:GLN:HB3	23:WP:66:LEU:HD13	1.63	0.81
23:yP:63:GLN:HB3	23:yP:66:LEU:HD13	1.63	0.81
4:C1:140:HIS:CE1	4:C1:142:LEU:HB2	2.16	0.80
6:h1:32:GLN:C	6:h1:33:ARG:NH2	2.39	0.80
7:I5:28:LYS:HB3	19:zL:291:ILE:HA	1.62	0.80
7:GD:76:ASN:OD1	6:JD:113:ALA:HA	1.81	0.80
5:DI:39:ASP:CG	29:DI:1002:PEB:HHC1	2.06	0.80
6:oJ:68:ASN:ND2	6:oJ:71:GLU:CD	2.38	0.80
6:lK:135:ARG:NH1	6:lK:157:ASP:OD1	2.14	0.80
7:JL:5:PHE:CZ	7:JL:31:ILE:HD11	2.16	0.80
7:LL:26:ALA:HB1	28:bP:231:ILE:CG1	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:QL:45:ALA:O	6:QL:48:HIS:CE1	2.35	0.80
6:uL:68:ASN:HD22	6:uL:71:GLU:CD	1.88	0.80
15:bM:271:TRP:CH2	7:FM:77:ARG:NH2	2.48	0.80
6:GM:138:LEU:HB2	29:GM:202:PEB:HMD1	1.63	0.80
6:EN:37:ARG:CD	6:EN:97:LEU:O	2.29	0.80
21:LP:71:MEN:HE21	24:XP:126:MET:HG2	1.63	0.80
7:HQ:141:PHE:CZ	29:HQ:203:PEB:C4A	2.65	0.80
8:e2:293:THR:CG2	7:T2:135:LYS:HZ1	1.93	0.80
7:P2:8:VAL:HG21	7:P2:27:LEU:HD11	1.64	0.80
7:P2:84:ARG:O	7:P2:88:ILE:HG13	1.81	0.80
13:k6:271:LEU:CD1	6:U7:80:ASN:OD1	2.30	0.80
5:L7:63:GLN:NE2	27:aP:284:VAL:CG2	2.43	0.80
15:bB:319:VAL:HG22	20:KP:79:ALA:HB1	1.62	0.80
7:gB:61:CYS:CB	29:gB:203:PEB:HBD2	2.11	0.80
6:FD:81:LYS:HA	6:FD:84:ARG:NE	1.96	0.80
18:ME:300:VAL:O	6:gL:49:GLU:HB3	1.81	0.80
18:ME:312:LEU:CD2	7:vL:68:SER:HA	2.06	0.80
6:UJ:63:TYR:HB2	6:UJ:66:LEU:CD1	2.10	0.80
6:oJ:33:ARG:HH21	6:qJ:24:LEU:C	1.89	0.80
3:BK:91:ALA:HB3	4:GK:15:GLN:HE22	1.46	0.80
16:xL:41:ASN:H	16:xL:41:ASN:HD22	1.29	0.80
6:YM:54:GLU:OE1	29:YM:203:PEB:C3C	2.29	0.80
29:FN:201:PEB:CAD	14:MN:181:TYR:CD2	2.65	0.80
7:DO:38:LEU:C	29:DO:202:PEB:CMD	2.40	0.80
21:fP:16:GLY:HA2	20:gP:90:ARG:CZ	2.11	0.80
21:qP:83:ARG:HD2	24:zP:87:LEU:HD13	1.61	0.80
25:1P:35:LEU:HD23	25:1P:40:LEU:HD13	1.62	0.80
6:SR:85:ASP:CG	29:SR:201:PEB:CHC	2.52	0.80
6:SR:142:ARG:HD2	29:SR:202:PEB:HBA3	1.61	0.80
1:X1:125:LEU:HD12	1:X1:195:TYR:OH	1.80	0.80
5:J1:33:GLU:OE1	5:J1:156:LEU:CD1	2.29	0.80
6:Q1:52:VAL:HG13	6:Q1:86:VAL:CG1	2.10	0.80
6:U2:97:LEU:HD23	6:U2:155:TYR:CE2	2.15	0.80
29:C4:202:PEB:HMD1	6:D4:150:VAL:HG11	1.61	0.80
6:J4:113:ALA:O	6:J4:116:VAL:N	2.14	0.80
6:J5:9:VAL:HG11	7:K5:95:TYR:CZ	2.16	0.80
6:U9:80:ASN:OD1	13:kH:271:LEU:CD1	2.30	0.80
6:U9:80:ASN:OD1	13:kH:271:LEU:HD13	1.80	0.80
7:DA:84:ARG:HG2	14:MA:150:SER:CB	2.11	0.80
6:HD:137:ARG:HH11	29:HD:202:PEB:CHB	1.95	0.80
18:ME:128:TYR:CD2	18:ME:231:THR:HG22	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:39:ASP:CG	29:JI:1002:PEB:HHC1	2.06	0.80
6:fI:9:VAL:HG21	7:gI:1:MET:HE3	1.60	0.80
7:TJ:25:GLN:CG	25:YP:521:THR:CB	2.60	0.80
6:aJ:38:LEU:HD13	7:bJ:24:LEU:HD22	1.63	0.80
4:CK:140:HIS:CE1	4:CK:142:LEU:HB2	2.16	0.80
21:dP:89:LEU:HG	20:eP:17:TYR:OH	1.80	0.80
8:eR:84:LYS:HE3	8:eR:128:ARG:HB2	1.63	0.80
6:MR:47:ASN:HB3	29:MR:202:PEB:OD	1.82	0.80
5:L1:36:GLN:NE2	29:L1:1002:PEB:C2B	2.43	0.80
7:T1:150:LYS:HB2	11:D8:260:THR:HG23	0.81	0.80
7:X2:8:VAL:HG21	7:X2:27:LEU:HD11	1.64	0.80
7:G5:150:LYS:O	7:k9:147:THR:CB	2.28	0.80
12:E5:209:ARG:HG2	6:lI:70:GLY:HA3	1.62	0.80
5:J7:75:THR:HA	31:M7:1001:CYC:CBB	2.11	0.80
5:N7:141:LEU:O	5:N7:144:ASP:OD1	1.99	0.80
6:WB:54:GLU:OE1	29:WB:202:PEB:C3C	2.29	0.80
18:MC:300:VAL:O	6:gJ:49:GLU:HB3	1.80	0.80
6:BD:113:ALA:O	6:BD:116:VAL:N	2.14	0.80
6:DD:32:GLN:OE1	6:DD:32:GLN:N	2.13	0.80
6:LD:113:ALA:O	6:LD:116:VAL:N	2.14	0.80
7:LE:116:THR:HB	18:ME:213:THR:CG2	2.11	0.80
7:aF:1:MET:SD	7:aF:1:MET:N	2.55	0.80
5:HI:39:ASP:CG	29:HI:1002:PEB:HHC1	2.06	0.80
6:YJ:68:ASN:HD22	6:YJ:71:GLU:CD	1.88	0.80
6:uJ:111:ALA:HB1	16:xJ:96:GLU:CD	2.06	0.80
7:HL:5:PHE:HZ	7:HL:31:ILE:HG13	1.46	0.80
6:ML:68:ASN:HD22	6:ML:71:GLU:CD	1.88	0.80
6:SL:51:VAL:CG2	6:SL:52:VAL:N	2.40	0.80
6:YL:68:ASN:ND2	6:YL:71:GLU:CD	2.38	0.80
6:KN:21:ASN:OD1	6:KN:24:LEU:HD12	1.81	0.80
7:MO:87:GLU:O	7:MO:91:ARG:HG2	1.82	0.80
20:lP:151:PHE:CE1	21:oP:42:ALA:HB1	2.16	0.80
3:B1:204:ARG:C	3:B1:204:ARG:HD3	2.03	0.80
6:H4:137:ARG:NH1	29:H4:202:PEB:NC	2.27	0.80
7:B5:108:ARG:CG	18:MC:266:GLY:CA	2.59	0.80
6:AA:37:ARG:HG2	6:AA:97:LEU:O	1.81	0.80
7:LA:109:CYS:O	7:LA:113:LEU:HG	1.82	0.80
15:bB:341:ALA:CB	15:bB:349:LYS:HE2	2.11	0.80
15:bB:355:LEU:HD23	6:MB:53:LYS:HZ2	0.97	0.80
7:NB:129:ARG:CG	28:bP:121:HIS:CG	2.61	0.80
6:lB:57:ASP:O	6:lB:59:CYS:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IC:14:ALA:CB	18:MC:51:PRO:CD	2.56	0.80
7:LC:11:ASN:HB3	18:MC:259:PRO:HG3	1.64	0.80
18:MC:242:LYS:HG3	29:SF:202:PEB:O1B	1.82	0.80
10:dD:270:ARG:HD3	7:MD:78:ARG:HH21	1.47	0.80
4:CF:7:GLU:CD	4:MF:22:THR:HG21	2.07	0.80
5:DF:39:ASP:CG	29:DF:1002:PEB:HHC1	2.06	0.80
7:LG:141:PHE:CZ	29:LG:203:PEB:HMA3	2.16	0.80
5:LI:39:ASP:CG	29:LI:1002:PEB:HHC1	2.06	0.80
4:IK:49:GLN:HE21	15:bM:337:PRO:N	1.78	0.80
5:JK:11:GLN:CB	15:bM:333:ARG:HH21	1.94	0.80
6:EL:68:ASN:ND2	6:EL:71:GLU:CD	2.38	0.80
6:GL:118:ARG:NH1	6:IL:114:ARG:HH11	1.80	0.80
7:NM:170:ASP:CB	28:4P:184:THR:CG2	2.59	0.80
7:DN:113:LEU:CD2	14:MN:280:PHE:HZ	1.48	0.80
7:HN:116:THR:HG21	14:MN:295:PHE:HE1	1.47	0.80
7:LN:109:CYS:O	7:LN:113:LEU:HG	1.82	0.80
7:HQ:140:ALA:CB	29:HQ:203:PEB:CBB	2.60	0.80
7:PR:8:VAL:HG21	7:PR:27:LEU:HD11	1.64	0.80
6:UR:65:TYR:CZ	6:UR:66:LEU:HD21	2.16	0.80
6:l1:135:ARG:NH1	6:l1:157:ASP:OD1	2.14	0.80
29:e2:401:PEB:CHA	7:P2:82:CYS:HA	2.07	0.80
6:M2:138:LEU:CD1	29:M2:202:PEB:CMD	2.59	0.80
7:N2:8:VAL:HG21	7:N2:27:LEU:HD11	1.64	0.80
7:V2:61:CYS:HB3	29:V2:203:PEB:HBD2	1.61	0.80
6:H4:113:ALA:HB2	7:M4:76:ASN:HD21	1.45	0.80
7:I4:97:LEU:HD11	7:I4:165:VAL:HG23	0.86	0.80
6:L4:18:PHE:CE1	7:M4:91:ARG:NE	2.47	0.80
7:c7:52:VAL:HG11	7:c7:87:GLU:HG3	1.62	0.80
5:J9:77:ARG:NH1	31:J9:1001:CYC:O2A	2.15	0.80
6:WB:157:ASP:OD2	7:ZB:149:ARG:NH2	2.14	0.80
7:CD:58:GLY:HA3	29:CD:203:PEB:CMD	2.11	0.80
5:JF:106:ASP:OD1	27:3P:126:TRP:NE1	2.14	0.80
4:EI:145:GLN:NE2	29:LI:1002:PEB:CMC	2.45	0.80
29:LJ:201:PEB:OD	19:zJ:215:THR:O	1.98	0.80
6:YJ:68:ASN:CB	6:YJ:71:GLU:OE1	2.23	0.80
6:kJ:68:ASN:CB	6:kJ:71:GLU:OE1	2.23	0.80
6:WM:157:ASP:OD2	7:ZM:149:ARG:NH2	2.14	0.80
6:KO:57:ASP:OD2	27:3P:169:THR:OG1	2.00	0.80
25:YP:35:LEU:HD23	25:YP:40:LEU:HD13	1.62	0.80
7:NR:8:VAL:HG21	7:NR:27:LEU:HD11	1.64	0.80
6:O2:65:TYR:CZ	6:O2:66:LEU:HD21	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:33:ARG:CZ	29:I4:202:PEB:HBD1	2.12	0.80
7:I5:7:ARG:NH2	28:bP:88:LEU:HD22	1.85	0.80
5:J7:77:ARG:NH1	31:J7:1001:CYC:O2A	2.15	0.80
12:E8:183:TYR:CD2	6:bF:83:TYR:HB2	2.17	0.80
5:D9:74:TYR:OH	4:G9:93:ARG:NH2	2.14	0.80
6:W9:140:VAL:CG1	6:W9:146:ALA:N	2.45	0.80
15:bB:319:VAL:HG21	20:KP:79:ALA:CB	2.12	0.80
18:MC:261:VAL:HG21	6:SF:68:ASN:CA	2.08	0.80
7:KD:153:PHE:HD2	29:KD:202:PEB:HMA3	1.47	0.80
5:JF:39:ASP:CG	29:JF:1002:PEB:HHC1	2.06	0.80
5:JI:74:TYR:O	5:JI:75:THR:HG23	1.81	0.80
7:jJ:115:GLU:CD	16:wJ:56:THR:OG1	2.25	0.80
7:LL:26:ALA:CB	28:bP:228:ILE:CG2	2.59	0.80
15:bM:327:LYS:HG3	20:mP:75:GLU:OE2	1.80	0.80
6:KM:54:GLU:OE1	29:KM:202:PEB:C3C	2.29	0.80
6:IM:57:ASP:O	6:IM:59:CYS:N	2.15	0.80
6:KN:37:ARG:CD	6:KN:97:LEU:O	2.29	0.80
7:DQ:137:GLN:CD	29:DQ:203:PEB:HHA1	2.07	0.80
6:MR:44:LEU:HD22	6:MR:152:PHE:HE1	1.42	0.80
6:W1:55:ALA:HB2	6:W1:134:THR:CG2	2.12	0.80
6:b1:135:ARG:NH1	6:b1:157:ASP:OD1	2.14	0.80
6:A3:69:PRO:HG2	27:aP:158:GLY:HA3	1.64	0.80
7:I5:45:VAL:O	28:bP:120:PRO:CG	2.29	0.80
12:E5:40:VAL:HG13	7:a9:26:ALA:C	2.07	0.80
5:F9:113:LEU:CD2	5:F9:171:VAL:HG22	2.12	0.80
5:J9:71:GLY:O	5:J9:78:ARG:NH1	2.13	0.80
7:i9:52:VAL:HG11	7:i9:87:GLU:HG3	1.62	0.80
6:IA:21:ASN:OD1	6:IA:24:LEU:HD12	1.81	0.80
6:KA:158:TYR:CE1	14:MA:265:LYS:NZ	2.48	0.80
15:bB:332:MET:N	15:bB:332:MET:SD	2.55	0.80
15:bB:341:ALA:CB	15:bB:349:LYS:HD3	2.12	0.80
7:GD:58:GLY:HA3	29:GD:203:PEB:CMD	2.11	0.80
29:LE:201:PEB:HAB2	18:ME:219:SER:HB3	1.63	0.80
18:ME:303:PHE:CE1	6:gL:53:LYS:CA	2.64	0.80
13:kH:104:GLN:HE22	4:EK:77:SER:HB3	1.46	0.80
6:oJ:33:ARG:NH2	6:qJ:24:LEU:O	2.15	0.80
19:zJ:363:ARG:HA	21:nP:62:TYR:CE2	2.16	0.80
6:fK:52:VAL:HG13	6:fK:86:VAL:CG1	2.10	0.80
16:AM:146:PRO:HD2	16:AM:147:LYS:N	1.96	0.80
6:dM:147:GLN:OE1	6:dM:147:GLN:N	2.12	0.80
7:iM:147:THR:OG1	7:iM:148:GLU:OE1	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FQ:47:ASN:HB2	29:FQ:203:PEB:CMA	2.12	0.80
6:IQ:2:LYS:NZ	14:MQ:254:VAL:HG13	1.97	0.80
6:MR:65:TYR:CZ	6:MR:66:LEU:HD21	2.17	0.80
7:VR:8:VAL:HG21	7:VR:27:LEU:HD11	1.64	0.80
8:e2:92:MET:HE1	8:e2:128:ARG:HH11	1.44	0.80
7:V2:61:CYS:CB	29:V2:203:PEB:CAD	2.55	0.80
10:d4:134:TYR:OH	10:d4:252:VAL:HG21	1.80	0.80
6:W7:140:VAL:CG1	6:W7:146:ALA:N	2.45	0.80
7:I8:30:PHE:CZ	28:4P:132:PRO:HD3	2.17	0.80
7:HB:125:ASN:ND2	7:ZB:70:GLY:HA3	1.95	0.80
18:ME:268:VAL:HG13	7:PI:147:THR:O	1.82	0.80
5:HI:74:TYR:O	5:HI:75:THR:HG23	1.81	0.80
6:SR:65:TYR:CZ	6:SR:66:LEU:HD21	2.17	0.80
6:UR:38:LEU:O	6:UR:41:ALA:N	2.13	0.80
6:O2:47:ASN:ND2	29:O2:202:PEB:OD	2.14	0.80
10:d4:270:ARG:HD3	7:M4:78:ARG:HH22	1.43	0.80
6:F4:81:LYS:HD2	6:F4:84:ARG:HD3	1.19	0.80
7:I4:153:PHE:HD2	29:I4:202:PEB:HMA3	1.47	0.80
6:L4:113:ALA:O	6:L4:116:VAL:N	2.14	0.80
12:E5:162:ASN:O	29:kI:203:PEB:HHB1	1.81	0.80
5:N7:72:MEN:HE23	5:N7:122:THR:OG1	1.81	0.80
12:E8:185:ALA:CB	6:bF:67:LYS:NZ	2.44	0.80
6:KA:21:ASN:OD1	6:KA:24:LEU:HD12	1.81	0.80
6:KA:37:ARG:CD	6:KA:97:LEU:O	2.29	0.80
16:AB:146:PRO:HD2	16:AB:147:LYS:N	1.96	0.80
18:MC:309:PRO:HD2	18:MC:310:SER:N	1.94	0.80
7:gK:7:ARG:NH1	14:MN:96:LYS:NZ	2.30	0.80
6:gL:68:ASN:CB	6:gL:71:GLU:OE1	2.24	0.80
6:oL:68:ASN:CB	6:oL:71:GLU:OE1	2.23	0.80
6:QM:54:GLU:OE1	29:QM:204:PEB:CMC	2.29	0.80
6:UM:67:LYS:CE	14:MQ:97:PHE:CE1	2.64	0.80
28:bP:40:ARG:NH1	28:bP:41:THR:CG2	2.42	0.80
6:OR:65:TYR:CZ	6:OR:66:LEU:HD21	2.17	0.80
7:T1:150:LYS:CA	11:D8:260:THR:HG23	2.10	0.79
8:e2:148:LEU:HD12	7:X2:108:ARG:HH21	1.46	0.79
7:V2:8:VAL:HG21	7:V2:27:LEU:HD11	1.64	0.79
7:N3:87:GLU:O	7:N3:91:ARG:HG2	1.81	0.79
7:G4:39:ASP:OD1	7:G4:153:PHE:CE1	2.36	0.79
7:I4:174:ALA:CB	6:WF:76:GLN:CG	2.61	0.79
7:K4:54:ASP:OD1	7:K4:55:ALA:N	2.16	0.79
7:GD:136:ALA:CB	29:GD:203:PEB:CBC	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:JD:133:TYR:OH	6:JD:137:ARG:CZ	2.29	0.79
6:IE:152:PHE:CE1	6:IE:156:LEU:CD2	2.66	0.79
5:HF:74:TYR:O	5:HF:75:THR:HG23	1.81	0.79
13:kH:232:PHE:CD2	6:OR:69:PRO:CG	2.62	0.79
5:FI:39:ASP:CG	29:FI:1002:PEB:HHC1	2.06	0.79
6:IJ:72:ALA:HB3	29:IJ:201:PEB:HMA3	1.63	0.79
6:sJ:14:ALA:HA	16:xJ:87:THR:HG22	1.64	0.79
6:sJ:16:GLY:HA3	16:xJ:89:GLY:O	1.82	0.79
4:EK:142:LEU:CD1	4:EK:146:VAL:CG1	2.60	0.79
6:UK:154:ALA:O	6:UK:157:ASP:OD1	2.00	0.79
6:aL:38:LEU:HD13	7:bL:24:LEU:HD22	1.63	0.79
15:bM:90:TYR:O	7:NM:84:ARG:NH1	2.15	0.79
6:KQ:2:LYS:NZ	30:MQ:404:PUB:HBB2	1.74	0.79
7:LQ:133:ILE:HG12	29:LQ:202:PEB:HBC1	0.80	0.79
6:MR:118:ARG:HD3	6:WR:114:ARG:NH2	1.97	0.79
6:OR:142:ARG:HH12	29:OR:202:PEB:CHB	1.96	0.79
6:M2:81:LYS:CD	29:M2:201:PEB:HAB2	2.11	0.79
6:M2:118:ARG:HD3	6:W2:114:ARG:NH2	1.97	0.79
7:C4:54:ASP:OD1	7:C4:55:ALA:N	2.16	0.79
6:D4:24:LEU:HD13	7:E4:38:LEU:HD22	1.62	0.79
7:i7:52:VAL:HG11	7:i7:87:GLU:HG3	1.62	0.79
7:CD:153:PHE:HD2	29:CD:202:PEB:HMA3	1.47	0.79
6:DD:113:ALA:O	6:DD:116:VAL:N	2.14	0.79
6:HD:113:ALA:O	6:HD:116:VAL:N	2.14	0.79
6:GJ:118:ARG:NH1	6:IJ:114:ARG:NH1	2.30	0.79
7:tJ:109:CYS:O	16:xJ:220:TYR:OH	1.99	0.79
3:BK:225:VAL:HG12	20:cP:82:LEU:HD11	1.64	0.79
5:JK:17:GLU:HA	15:bM:335:ILE:HD13	1.61	0.79
5:JK:17:GLU:HA	15:bM:335:ILE:CD1	2.12	0.79
6:QL:73:GLY:C	6:QL:78:LYS:HD3	2.08	0.79
7:NM:129:ARG:CG	28:4P:121:HIS:HB3	2.12	0.79
6:WM:54:GLU:OE1	29:WM:202:PEB:C3C	2.29	0.79
21:oP:72:MET:HA	21:oP:77:ARG:HB3	1.62	0.79
7:BQ:141:PHE:CE2	29:BQ:203:PEB:HMB3	2.18	0.79
8:eR:239:LYS:NZ	7:PR:120:LEU:CD2	2.44	0.79
6:h1:135:ARG:NH1	6:h1:157:ASP:OD1	2.14	0.79
7:T2:8:VAL:HG21	7:T2:27:LEU:HD11	1.64	0.79
6:C3:48:HIS:NE2	6:C3:49:GLU:OE1	2.15	0.79
7:I4:54:ASP:OD1	7:I4:55:ALA:N	2.16	0.79
13:k6:161:ILE:HG21	7:V7:136:ALA:HB2	1.64	0.79
4:K9:50:ARG:HH11	3:BI:228:MET:HA	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U9:141:PRO:CB	7:XM:25:GLN:HE21	1.91	0.79
7:DA:109:CYS:O	7:DA:113:LEU:HG	1.82	0.79
6:KC:152:PHE:CE1	6:KC:156:LEU:CD2	2.66	0.79
6:HD:137:ARG:NH1	29:HD:202:PEB:NC	2.27	0.79
7:LG:116:THR:CG2	14:MG:233:ALA:O	2.30	0.79
19:zJ:363:ARG:CA	21:nP:62:TYR:CE2	2.64	0.79
7:FL:9:VAL:HA	7:FL:12:SER:OG	1.83	0.79
7:HL:8:VAL:CG1	7:HL:23:ASP:OD2	2.30	0.79
29:RL:202:PEB:C3D	6:SL:33:ARG:HH11	1.95	0.79
7:gM:35:ASN:H	7:gM:35:ASN:HD22	1.30	0.79
7:DN:109:CYS:O	7:DN:113:LEU:HG	1.82	0.79
20:mP:25:ARG:HH22	25:1P:45:SER:CB	1.96	0.79
25:1P:135:ILE:HG22	25:1P:137:VAL:H	1.48	0.79
7:HQ:47:ASN:HB2	29:HQ:203:PEB:HMA1	1.63	0.79
8:eR:92:MET:HE1	8:eR:128:ARG:HH11	1.44	0.79
4:E1:140:HIS:H	4:E1:140:HIS:CD2	1.98	0.79
7:T1:150:LYS:CG	11:D8:260:THR:HG22	2.12	0.79
6:M2:65:TYR:CZ	6:M2:66:LEU:HD21	2.17	0.79
6:U2:65:TYR:CZ	6:U2:66:LEU:HD21	2.16	0.79
7:C4:153:PHE:HD2	29:C4:202:PEB:HMA3	1.47	0.79
6:J4:81:LYS:HE2	6:J4:84:ARG:NH1	1.98	0.79
3:B7:174:GLU:OE2	26:2P:81:PHE:N	2.16	0.79
5:N7:72:MEN:OD1	31:N7:1001:CYC:C1C	2.30	0.79
7:k7:150:LYS:HE3	7:G8:149:ARG:HH21	1.43	0.79
6:IC:14:ALA:C	18:MC:51:PRO:HD3	2.07	0.79
18:MC:277:ARG:HE	5:DF:17:GLU:CD	1.90	0.79
10:dD:282:LYS:CE	6:WI:74:GLU:OE2	2.30	0.79
7:ID:153:PHE:HD2	29:ID:202:PEB:HMA3	1.47	0.79
7:MD:54:ASP:OD1	7:MD:55:ALA:N	2.16	0.79
7:MD:153:PHE:HD2	29:MD:202:PEB:HMA3	1.47	0.79
6:KE:44:LEU:HD11	6:KE:152:PHE:CZ	2.16	0.79
5:JF:74:TYR:O	5:JF:75:THR:HG23	1.81	0.79
5:LF:39:ASP:CG	29:LF:1002:PEB:HHC1	2.06	0.79
5:JI:136:ASP:HB3	27:aP:67:GLY:O	1.82	0.79
7:FJ:9:VAL:HA	7:FJ:12:SER:OG	1.83	0.79
7:HJ:5:PHE:HZ	7:HJ:31:ILE:HG13	1.46	0.79
6:kJ:158:TYR:OH	6:mJ:17:ARG:NH1	2.15	0.79
5:LK:40:ILE:HG13	29:LK:1002:PEB:CBA	2.13	0.79
7:gK:7:ARG:HD2	14:MN:96:LYS:CB	2.12	0.79
6:oL:33:ARG:NH2	6:qL:24:LEU:O	2.15	0.79
7:BN:20:GLY:O	7:BN:24:LEU:CD1	2.29	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:gP:14:GLU:HG3	25:1P:509:PHE:CE1	2.17	0.79
20:rP:18:LEU:HD22	21:wP:97:LEU:HD13	1.63	0.79
5:D1:39:ASP:OD1	5:D1:39:ASP:N	2.15	0.79
6:U1:154:ALA:O	6:U1:157:ASP:OD1	2.00	0.79
6:d1:32:GLN:O	6:d1:33:ARG:NH1	2.16	0.79
29:I8:201:PEB:CMC	15:bM:403:PRO:HG2	2.11	0.79
1:X9:264:GLU:N	5:D9:115:GLU:OE1	2.15	0.79
7:BA:20:GLY:O	7:BA:24:LEU:CD1	2.29	0.79
29:CD:202:PEB:HBD1	6:DD:33:ARG:HH11	1.47	0.79
6:GJ:118:ARG:NH1	6:IJ:114:ARG:HH11	1.80	0.79
3:BK:225:VAL:CG1	20:cP:82:LEU:HD12	2.11	0.79
7:XM:62:GLU:OE2	7:XM:129:ARG:NE	2.14	0.79
20:PP:18:LEU:HD22	21:UP:97:LEU:HD13	1.63	0.79
7:FQ:47:ASN:CB	29:FQ:203:PEB:CMA	2.61	0.79
7:VR:133:ILE:O	7:VR:137:GLN:CG	2.31	0.79
7:M3:87:GLU:O	7:M3:91:ARG:HG2	1.82	0.79
10:d4:134:TYR:OH	10:d4:252:VAL:HG23	1.83	0.79
7:E4:74:TYR:HB3	7:E4:78:ARG:HH21	1.48	0.79
4:I9:134:GLN:NE2	13:kH:192:VAL:CG2	2.31	0.79
7:a9:150:LYS:HB2	8:eR:284:ASN:HD22	1.46	0.79
7:mB:62:GLU:OE2	7:mB:129:ARG:NE	2.14	0.79
7:ED:54:ASP:OD1	7:ED:55:ALA:N	2.16	0.79
7:ED:153:PHE:HD2	29:ED:201:PEB:HMA3	1.47	0.79
7:HJ:8:VAL:CG1	7:HJ:23:ASP:OD2	2.30	0.79
7:JJ:5:PHE:CZ	7:JJ:31:ILE:HD11	2.16	0.79
6:bK:135:ARG:NH1	6:bK:157:ASP:OD1	2.14	0.79
7:FL:143:THR:OG1	25:1P:514:ILE:HG23	1.82	0.79
16:wL:164:SER:HB3	16:xL:36:GLN:HE22	1.46	0.79
7:mM:106:GLU:OE2	7:mM:171:ARG:NH1	2.15	0.79
7:NO:87:GLU:O	7:NO:91:ARG:HG2	1.81	0.79
20:TP:15:ALA:O	26:ZP:148:ARG:NE	2.16	0.79
20:gP:15:ALA:CB	25:1P:532:LEU:HD11	2.13	0.79
6:WR:65:TYR:OH	6:WR:66:LEU:HD11	1.82	0.79
6:WR:142:ARG:HD2	29:WR:202:PEB:HBA1	1.61	0.79
7:XR:8:VAL:HG21	7:XR:27:LEU:HD11	1.64	0.79
4:C1:12:ALA:O	4:C1:14:ASN:N	2.16	0.79
6:S2:85:ASP:OD2	29:S2:201:PEB:NC	2.13	0.79
6:U2:137:ARG:HG3	29:U2:202:PEB:HHC1	0.91	0.79
10:d4:283:ARG:HG3	7:TF:147:THR:HG22	1.65	0.79
7:K4:74:TYR:HB3	7:K4:78:ARG:HH21	1.48	0.79
29:K4:202:PEB:HBD1	6:L4:33:ARG:HH22	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M4:153:PHE:HD2	29:M4:202:PEB:HMA3	1.47	0.79
12:E8:71:ASP:OD2	5:HF:150:ILE:HG21	1.81	0.79
4:E9:79:ILE:HD11	13:kH:221:TYR:N	1.97	0.79
5:N9:72:MEN:OD1	31:N9:1001:CYC:C1C	2.30	0.79
6:GA:21:ASN:OD1	6:GA:24:LEU:HD12	1.81	0.79
15:bB:343:PHE:HD2	20:KP:67:SER:OG	1.63	0.79
6:dB:147:GLN:H	6:dB:147:GLN:NE2	1.81	0.79
18:MC:281:VAL:HG21	4:CF:52:ILE:HG21	1.64	0.79
7:BG:141:PHE:CE2	29:BG:203:PEB:HMB3	2.18	0.79
4:CI:7:GLU:CD	4:MI:22:THR:HG21	2.07	0.79
6:oL:68:ASN:HD22	6:oL:71:GLU:CD	1.88	0.79
19:zL:363:ARG:N	21:LP:62:TYR:CZ	2.50	0.79
19:zL:363:ARG:CG	21:LP:62:TYR:CD1	2.66	0.79
7:DO:39:ASP:HA	29:DO:202:PEB:CMD	2.10	0.79
7:BQ:140:ALA:CB	29:BQ:203:PEB:CAB	2.60	0.79
8:e2:84:LYS:HE3	8:e2:128:ARG:HB2	1.63	0.79
7:I5:11:ASN:ND2	7:I5:11:ASN:O	2.16	0.79
7:cB:62:GLU:OE2	7:cB:129:ARG:NE	2.14	0.79
7:iB:62:GLU:OE2	7:iB:129:ARG:NE	2.14	0.79
6:IC:152:PHE:CE1	6:IC:156:LEU:CD2	2.66	0.79
18:MC:65:LYS:O	18:MC:67:GLN:N	2.16	0.79
7:CD:54:ASP:OD1	7:CD:55:ALA:N	2.16	0.79
7:GD:39:ASP:OD1	7:GD:153:PHE:CE1	2.36	0.79
7:GD:54:ASP:OD1	7:GD:55:ALA:N	2.16	0.79
3:BF:204:ARG:CD	31:rP:1001:CYC:O2D	2.28	0.79
7:kF:1:MET:HE3	7:kF:104:VAL:HG21	1.64	0.79
6:mJ:98:VAL:HG22	7:nJ:24:LEU:HD21	1.64	0.79
6:uJ:68:ASN:CB	6:uJ:71:GLU:OE1	2.23	0.79
4:CK:12:ALA:O	4:CK:14:ASN:N	2.16	0.79
7:HM:62:GLU:OE2	7:HM:129:ARG:NE	2.14	0.79
7:FN:118:ILE:O	14:MN:106:ASP:OD1	1.99	0.79
21:DP:139:SER:HB2	20:iP:45:GLU:CD	2.07	0.79
22:VP:71:ASN:HD22	22:VP:121:VAL:HA	1.47	0.79
6:QR:65:TYR:CZ	6:QR:66:LEU:HD21	2.17	0.79
4:M1:94:MET:HG3	4:M1:111:LEU:CD1	2.13	0.79
6:S2:65:TYR:CZ	6:S2:66:LEU:HD21	2.17	0.79
6:S2:97:LEU:C	6:S2:97:LEU:HD12	2.08	0.79
7:E4:133:ILE:CG1	29:E4:203:PEB:HBC1	2.11	0.79
7:G4:153:PHE:HD2	29:G4:202:PEB:HMA3	1.47	0.79
6:H4:81:LYS:HE2	6:H4:84:ARG:NH1	1.98	0.79
7:B8:104:VAL:HG22	18:ME:266:GLY:HA2	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J8:9:VAL:HG11	7:K8:95:TYR:CZ	2.16	0.79
3:B9:217:ASP:HA	21:SP:67:ARG:HH11	1.47	0.79
5:N9:72:MEN:HE23	5:N9:122:THR:OG1	1.81	0.79
7:LB:62:GLU:OE2	7:LB:129:ARG:NE	2.14	0.79
6:UB:142:ARG:CD	14:MG:112:LEU:O	2.30	0.79
10:dD:147:ARG:HA	10:dD:207:MET:HG3	1.64	0.79
6:DD:24:LEU:HD13	7:ED:38:LEU:HD22	1.62	0.79
7:GD:50:CYS:CB	29:GD:203:PEB:HMA1	2.13	0.79
7:GD:75:THR:CB	29:JD:201:PEB:CBD	2.59	0.79
29:FG:201:PEB:CBD	14:MG:181:TYR:HB3	2.13	0.79
13:kH:236:GLN:HE21	6:OR:65:TYR:CA	1.96	0.79
4:EK:140:HIS:H	4:EK:140:HIS:CD2	1.98	0.79
6:WK:55:ALA:HB2	6:WK:134:THR:CG2	2.12	0.79
19:zL:363:ARG:CG	21:LP:67:ARG:HH12	1.94	0.79
21:FP:63:SER:OG	21:FP:65:ILE:HG12	1.83	0.79
21:SP:68:PRO:HB3	21:UP:13:ASP:O	1.83	0.79
25:YP:135:ILE:HG22	25:YP:137:VAL:H	1.48	0.79
20:IP:20:PRO:CG	20:pP:101:VAL:HG13	2.13	0.79
22:xP:144:GLU:OE1	22:xP:144:GLU:N	2.14	0.79
25:1P:512:GLU:HB2	25:1P:514:ILE:HG13	1.63	0.79
6:SR:97:LEU:C	6:SR:97:LEU:HD12	2.08	0.79
4:E1:7:GLU:OE1	4:K1:22:THR:CG2	2.31	0.79
6:M2:116:VAL:HG13	6:M2:120:LEU:HD12	1.65	0.79
6:D4:81:LYS:HE2	6:D4:84:ARG:NH1	1.98	0.79
7:E4:153:PHE:HD2	29:E4:202:PEB:HMA3	1.47	0.79
6:L4:81:LYS:HE2	6:L4:84:ARG:NH1	1.98	0.79
7:I5:27:LEU:HB3	19:zL:294:GLY:C	2.07	0.79
5:F7:113:LEU:CD2	5:F7:171:VAL:HG22	2.12	0.79
7:I8:24:LEU:O	19:zJ:291:ILE:HG23	1.81	0.79
6:J8:99:VAL:HG22	7:K8:9:VAL:HG21	1.64	0.79
7:iB:147:THR:OG1	7:iB:148:GLU:OE1	2.00	0.79
10:dD:270:ARG:HD3	7:MD:78:ARG:HH22	1.46	0.79
6:FD:81:LYS:HD3	6:FD:84:ARG:HH11	1.48	0.79
6:FD:113:ALA:O	6:FD:116:VAL:N	2.14	0.79
7:ID:54:ASP:OD1	7:ID:55:ALA:N	2.16	0.79
7:MD:60:ILE:HG21	7:MD:67:ILE:CD1	2.13	0.79
7:MD:136:ALA:CB	29:MD:203:PEB:CGC	2.61	0.79
13:kH:127:VAL:O	13:kH:129:PRO:HD3	1.83	0.79
6:QJ:73:GLY:C	6:QJ:78:LYS:HD3	2.08	0.79
6:kJ:147:GLN:OE1	29:nJ:202:PEB:HMC1	1.82	0.79
7:VK:159:THR:OG1	14:MN:103:ARG:HB3	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HL:5:PHE:HE2	7:HL:31:ILE:CD1	1.90	0.79
7:jL:115:GLU:CD	16:wL:56:THR:OG1	2.25	0.79
7:JQ:108:ARG:NH1	14:MQ:257:THR:HG23	1.98	0.79
6:MR:37:ARG:NE	6:MR:151:GLU:CD	2.41	0.79
6:M2:81:LYS:CE	29:M2:201:PEB:HAB1	1.83	0.78
6:B4:29:GLY:HA2	6:B4:32:GLN:HE22	1.44	0.78
6:F4:81:LYS:HA	6:F4:84:ARG:NE	1.96	0.78
7:B5:91:ARG:HH22	18:MC:293:MET:HA	1.44	0.78
1:X7:264:GLU:N	5:D7:115:GLU:OE1	2.15	0.78
7:F8:79:MET:HE2	7:kF:147:THR:HG23	1.65	0.78
7:I8:11:ASN:ND2	7:I8:11:ASN:O	2.16	0.78
7:mB:106:GLU:OE2	7:mB:171:ARG:NH1	2.15	0.78
6:KC:44:LEU:CD2	29:KC:203:PEB:CBD	2.61	0.78
6:JD:81:LYS:HE2	6:JD:84:ARG:NH1	1.98	0.78
6:QJ:45:ALA:O	6:QJ:48:HIS:CE1	2.35	0.78
6:kJ:68:ASN:HD22	6:kJ:71:GLU:CD	1.88	0.78
16:xJ:41:ASN:H	16:xJ:41:ASN:HD22	1.29	0.78
3:BK:225:VAL:HG13	20:cP:82:LEU:HD12	1.64	0.78
19:zL:361:ARG:HH22	20:NP:71:ASN:HA	1.46	0.78
5:J1:33:GLU:CD	5:J1:156:LEU:CD1	2.56	0.78
29:e2:401:PEB:HAA1	7:P2:82:CYS:CA	2.12	0.78
7:G4:75:THR:HG23	29:J4:201:PEB:HAD1	1.24	0.78
3:B9:187:GLU:HG3	27:3P:227:PRO:HG3	1.64	0.78
7:GD:153:PHE:HD2	29:GD:202:PEB:HMA3	1.47	0.78
7:MD:124:THR:N	6:UI:69:PRO:HG3	1.99	0.78
3:BF:221:PHE:HE1	27:3P:81:LEU:CD2	1.89	0.78
29:nJ:201:PEB:CBC	16:xJ:103:LEU:HB3	2.09	0.78
19:zJ:366:ARG:CZ	21:nP:61:LEU:HD23	2.13	0.78
5:FK:20:SER:OG	5:FK:23:GLN:HG3	1.83	0.78
4:MK:94:MET:HG3	4:MK:111:LEU:CD1	2.13	0.78
6:GL:118:ARG:NH1	6:IL:114:ARG:NH1	2.30	0.78
21:HP:18:TYR:OH	25:YP:153:ASP:O	2.01	0.78
7:HQ:146:ALA:HA	29:HQ:203:PEB:O1B	1.82	0.78
6:QR:96:CYS:SG	6:QR:105:LEU:CG	2.66	0.78
5:L1:40:ILE:HG12	29:L1:1002:PEB:HBA1	1.63	0.78
7:E4:54:ASP:OD1	7:E4:55:ALA:N	2.16	0.78
7:G4:54:ASP:OD1	7:G4:55:ALA:N	2.16	0.78
6:J4:133:TYR:CE2	6:J4:137:ARG:NE	2.51	0.78
7:K4:51:MET:HE3	7:K4:141:PHE:HE2	1.48	0.78
7:M4:54:ASP:OD1	7:M4:55:ALA:N	2.16	0.78
12:E5:39:PRO:HG2	7:a9:100:GLY:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:71:ASP:OD2	5:HI:150:ILE:HG21	1.84	0.78
13:k6:221:TYR:N	4:E7:79:ILE:HD11	1.97	0.78
7:I8:28:LYS:HB3	19:zJ:291:ILE:HA	1.64	0.78
5:N9:141:LEU:O	5:N9:144:ASP:OD1	1.99	0.78
6:EA:21:ASN:OD1	6:EA:24:LEU:HD12	1.81	0.78
15:bB:343:PHE:CZ	20:KP:64:ASP:N	2.51	0.78
7:gB:61:CYS:CB	29:gB:203:PEB:CBD	2.62	0.78
7:BC:55:ALA:HB2	7:BC:134:MET:SD	2.24	0.78
7:KD:54:ASP:OD1	7:KD:55:ALA:N	2.16	0.78
6:KE:152:PHE:CE1	6:KE:156:LEU:CD2	2.66	0.78
18:ME:308:ILE:HD13	7:vL:64:PRO:CD	2.12	0.78
6:ZF:33:ARG:NH2	6:ZF:151:GLU:OE1	2.13	0.78
7:HJ:111:ASN:ND2	7:HJ:111:ASN:O	2.16	0.78
7:PK:46:SER:HB2	6:QK:157:ASP:OD2	1.84	0.78
7:LL:21:GLY:HA2	7:LL:24:LEU:HB2	1.66	0.78
19:zL:215:THR:O	19:zL:217:ALA:N	2.16	0.78
19:zL:362:GLY:O	21:LP:62:TYR:CD2	2.36	0.78
6:CO:48:HIS:NE2	6:CO:49:GLU:OE1	2.15	0.78
5:H1:40:ILE:HG13	29:H1:1002:PEB:CBA	2.13	0.78
6:U2:116:VAL:HG13	6:U2:120:LEU:HD12	1.65	0.78
6:H4:34:SER:HB2	6:H4:37:ARG:HH21	1.47	0.78
6:J4:133:TYR:OH	6:J4:137:ARG:CZ	2.29	0.78
7:K4:153:PHE:HD2	29:K4:202:PEB:HMA3	1.47	0.78
7:M4:60:ILE:HG21	7:M4:67:ILE:CD1	2.13	0.78
6:l7:137:ARG:HG2	6:l7:137:ARG:HH11	1.46	0.78
12:E8:183:TYR:HD2	6:bF:83:TYR:HD2	0.84	0.78
3:B9:205:ARG:NE	21:sP:57:ALA:O	2.13	0.78
18:MC:305:ALA:O	18:MC:307:PRO:CD	2.32	0.78
7:ED:74:TYR:HB3	7:ED:78:ARG:HH21	1.48	0.78
4:EF:145:GLN:NE2	29:LF:1002:PEB:CMC	2.45	0.78
7:NJ:114:LYS:CG	7:NJ:176:ILE:HA	2.13	0.78
7:nJ:88:ILE:HD11	16:xJ:203:VAL:HB	1.65	0.78
19:zJ:215:THR:O	19:zJ:217:ALA:N	2.16	0.78
5:JK:33:GLU:CD	5:JK:156:LEU:CD1	2.56	0.78
7:HL:5:PHE:HZ	7:HL:31:ILE:CG1	1.97	0.78
7:HL:111:ASN:O	7:HL:111:ASN:ND2	2.16	0.78
6:oL:33:ARG:HH21	6:qL:24:LEU:C	1.89	0.78
25:YP:603:ARG:HA	25:YP:606:ILE:HG22	1.66	0.78
21:dP:15:GLN:HE22	23:yP:137:GLN:HG3	1.47	0.78
21:hP:71:MEN:OD1	21:hP:122:PRO:CD	2.28	0.78
20:lP:20:PRO:HG2	20:pP:101:VAL:HG13	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eR:85:PRO:CB	7:NR:107:ASP:C	2.46	0.78
6:OR:43:LYS:HG3	29:OR:202:PEB:CBD	2.13	0.78
5:F1:40:ILE:HG13	29:F1:1002:PEB:HBA1	1.66	0.78
6:O2:97:LEU:HD21	6:O2:155:TYR:HD2	1.49	0.78
6:Q2:37:ARG:NH1	6:Q2:97:LEU:C	2.37	0.78
6:Q2:96:CYS:SG	6:Q2:105:LEU:CG	2.66	0.78
7:V2:84:ARG:HG2	7:V2:84:ARG:NH1	1.98	0.78
7:C4:51:MET:HE3	7:C4:141:PHE:HE2	1.48	0.78
7:B5:104:VAL:CG2	18:MC:266:GLY:N	2.43	0.78
3:B7:217:ASP:HA	21:uP:67:ARG:HH11	1.45	0.78
18:MC:308:ILE:HD13	7:vJ:64:PRO:HD2	0.79	0.78
10:dD:283:ARG:HB2	7:TI:148:GLU:CD	2.09	0.78
6:DD:81:LYS:HE2	6:DD:84:ARG:NH1	1.98	0.78
7:ED:51:MET:HE3	7:ED:141:PHE:HE2	1.49	0.78
18:ME:242:LYS:HB2	29:SI:202:PEB:O1B	1.84	0.78
6:WI:9:VAL:HG21	7:YI:1:MET:HE2	1.63	0.78
19:zJ:215:THR:C	19:zJ:217:ALA:H	1.92	0.78
4:CK:100:VAL:HG21	5:DK:19:LEU:CD1	2.12	0.78
7:gM:61:CYS:CB	29:gM:203:PEB:CBD	2.62	0.78
6:jM:33:ARG:NH1	6:jM:147:GLN:OE1	2.17	0.78
8:eR:75:MET:SD	29:NR:201:PEB:C3D	2.71	0.78
6:UR:116:VAL:HG13	6:UR:120:LEU:HD12	1.65	0.78
3:B1:205:ARG:HH21	20:JP:52:LYS:HG3	0.96	0.78
4:E1:142:LEU:CD1	4:E1:146:VAL:CG1	2.60	0.78
4:M1:13:ASP:OD2	5:N1:108:ARG:NH1	2.16	0.78
6:O2:108:TRP:O	7:T2:75:THR:OG1	2.01	0.78
6:Q2:116:VAL:HG13	6:Q2:120:LEU:HD12	1.65	0.78
7:N3:91:ARG:NH2	9:O3:400:VAL:HG23	1.97	0.78
6:B4:33:ARG:HG2	6:D4:25:GLU:OE1	1.83	0.78
7:G4:51:MET:HE3	7:G4:141:PHE:HE2	1.48	0.78
7:I4:51:MET:HE3	7:I4:141:PHE:HE2	1.48	0.78
13:k6:102:TYR:CE2	6:Q7:69:PRO:HG3	2.18	0.78
13:k6:192:VAL:CG2	4:I7:134:GLN:NE2	2.31	0.78
7:m9:8:VAL:CG1	7:m9:23:ASP:OD2	2.32	0.78
15:bB:274:ARG:HH11	15:bB:372:ILE:HG21	1.48	0.78
10:dD:261:THR:CG2	6:WI:133:TYR:OH	2.32	0.78
10:dD:278:GLY:H	6:WI:69:PRO:HD2	1.49	0.78
7:KD:51:MET:HE3	7:KD:141:PHE:HE2	1.48	0.78
3:BI:227:GLU:CG	20:vP:56:GLN:HE21	1.95	0.78
19:zL:362:GLY:C	21:LP:62:TYR:CD2	2.61	0.78
7:FQ:54:ASP:HB2	29:FQ:203:PEB:HBA2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eR:108:HIS:CD2	7:PR:84:ARG:HD3	2.18	0.78
6:MR:81:LYS:CE	29:MR:201:PEB:HAB1	1.83	0.78
6:QR:39:GLU:OE1	6:QR:144:MET:CB	2.31	0.78
3:B1:9:SER:HB2	5:N1:107:ASP:OD1	1.83	0.78
5:J1:33:GLU:OE1	5:J1:156:LEU:HD11	1.83	0.78
7:V2:133:ILE:O	7:V2:137:GLN:CG	2.31	0.78
7:X2:81:ALA:HA	7:X2:84:ARG:HH11	1.48	0.78
7:M4:50:CYS:HB3	29:M4:203:PEB:HAA1	1.64	0.78
6:Q9:69:PRO:HG3	13:kH:102:TYR:CE2	2.18	0.78
6:KA:111:ALA:HB1	14:MA:269:GLU:HG2	1.66	0.78
7:GD:51:MET:HE3	7:GD:141:PHE:HE2	1.48	0.78
6:LD:81:LYS:HE2	6:LD:84:ARG:NH1	1.98	0.78
7:LJ:21:GLY:HA2	7:LJ:24:LEU:HB2	1.66	0.78
6:WJ:74:GLU:H	6:WJ:78:LYS:HG3	1.46	0.78
7:NL:114:LYS:CG	7:NL:176:ILE:HA	2.13	0.78
20:pP:106:GLU:HG2	24:zP:62:VAL:HG21	1.66	0.78
25:1P:846:PRO:HB2	25:1P:849:ASN:HB2	1.65	0.78
7:BQ:41:VAL:CG2	7:BQ:98:LEU:HD21	2.07	0.78
7:FQ:51:MET:HA	29:FQ:203:PEB:HAA2	1.62	0.78
6:OR:108:TRP:O	7:TR:75:THR:OG1	2.01	0.78
5:J1:34:GLY:O	5:J1:38:LEU:HG	1.84	0.78
7:g1:101:ASP:HA	14:MA:98:LEU:CD1	2.13	0.78
8:e2:58:SER:HB3	8:e2:61:GLN:HB2	1.66	0.78
6:Q2:142:ARG:NE	29:Q2:202:PEB:HHA1	1.97	0.78
7:G4:58:GLY:N	29:G4:203:PEB:HMD2	1.99	0.78
6:H4:137:ARG:NH1	29:H4:202:PEB:NB	2.24	0.78
29:K4:202:PEB:CBD	6:L4:33:ARG:NH2	2.44	0.78
3:B7:188:PHE:HB3	3:B7:192:LEU:CD2	2.14	0.78
7:DC:55:ALA:HB2	7:DC:134:MET:SD	2.24	0.78
7:JE:55:ALA:HB2	7:JE:134:MET:SD	2.24	0.78
18:ME:65:LYS:O	18:ME:67:GLN:N	2.16	0.78
3:BI:204:ARG:NH1	21:SP:57:ALA:HB1	1.97	0.78
7:mI:1:MET:HG2	7:mI:107:ASP:OD2	1.83	0.78
6:AJ:137:ARG:NH2	29:AJ:202:PEB:O1B	2.17	0.78
7:LJ:26:ALA:HB1	28:4P:228:ILE:CG2	2.13	0.78
3:BK:225:VAL:HG12	20:cP:82:LEU:CD1	2.13	0.78
6:IL:72:ALA:HB3	29:IL:201:PEB:HMA3	1.63	0.78
6:kL:33:ARG:NH2	7:nL:38:LEU:HD13	1.96	0.78
20:mP:25:ARG:HH12	25:1P:45:SER:H	1.31	0.78
25:1P:603:ARG:HA	25:1P:606:ILE:HG22	1.66	0.78
8:eR:58:SER:HB3	8:eR:61:GLN:HB2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TR:8:VAL:HG21	7:TR:27:LEU:HD11	1.64	0.78
3:B1:130:ILE:HD11	5:J1:84:ARG:HD2	1.66	0.78
4:E1:4:PRO:HG2	4:E1:30:ARG:CD	2.12	0.78
5:F1:20:SER:OG	5:F1:23:GLN:HG3	1.83	0.78
6:U2:97:LEU:HD21	6:U2:155:TYR:HD2	1.49	0.78
6:W2:116:VAL:HG13	6:W2:120:LEU:HD12	1.65	0.78
7:B5:104:VAL:HB	18:MC:265:LYS:HG3	1.65	0.78
6:J5:99:VAL:HG22	7:K5:9:VAL:HG21	1.64	0.78
7:k7:147:THR:CB	7:G8:150:LYS:O	2.32	0.78
5:J9:38:LEU:HB2	29:J9:1002:PEB:HMD3	1.66	0.78
7:LC:116:THR:HB	18:MC:213:THR:HG21	1.63	0.78
7:ID:74:TYR:HB3	7:ID:78:ARG:HH21	1.48	0.78
7:BE:55:ALA:HB2	7:BE:134:MET:SD	2.24	0.78
7:FG:50:CYS:O	29:FG:203:PEB:CBA	2.32	0.78
6:IG:27:ILE:HD11	7:JG:38:LEU:HD21	1.65	0.78
6:OI:32:GLN:HG3	6:QI:32:GLN:HG3	1.66	0.78
7:kI:1:MET:HE3	7:kI:104:VAL:HG21	1.64	0.78
6:AL:137:ARG:NH2	29:AL:202:PEB:O1B	2.17	0.78
6:cL:72:ALA:CA	29:cL:201:PEB:HMA2	2.14	0.78
16:wL:36:GLN:O	16:wL:43:LYS:NZ	2.17	0.78
16:wL:179:ALA:HB2	16:xL:37:THR:CB	2.13	0.78
22:xP:71:ASN:HD22	22:xP:121:VAL:HA	1.47	0.78
6:IQ:27:ILE:HD11	7:JQ:38:LEU:HD21	1.65	0.78
29:MR:202:PEB:O2C	29:MR:202:PEB:HHB1	1.84	0.78
5:D1:35:ASN:OD1	29:D1:1002:PEB:ND	2.17	0.78
5:L1:33:GLU:HB3	5:L1:36:GLN:HB2	1.66	0.78
7:C4:58:GLY:O	29:C4:203:PEB:HBD1	1.84	0.78
7:I4:58:GLY:CA	29:I4:203:PEB:CAD	2.62	0.78
7:B5:103:SER:OG	18:MC:265:LYS:HD2	1.84	0.78
5:J7:38:LEU:HB2	29:J7:1002:PEB:HMD3	1.66	0.78
5:L7:38:LEU:HB2	29:L7:1002:PEB:HMD3	1.66	0.78
7:LE:55:ALA:HB2	7:LE:134:MET:SD	2.24	0.78
18:ME:280:VAL:HG13	4:CI:49:GLN:HG2	1.66	0.78
4:GF:104:THR:CG2	4:GF:108:ASP:OD1	2.31	0.78
6:IG:2:LYS:HZ3	14:MG:254:VAL:HG13	1.48	0.78
3:BI:210:GLU:HA	27:aP:71:VAL:HG23	1.65	0.78
5:JI:63:GLN:CG	20:PP:73:TYR:CZ	2.66	0.78
7:TJ:33:ASP:OD1	7:TJ:33:ASP:N	2.16	0.78
7:RL:113:LEU:HD23	7:RL:176:ILE:CG2	2.13	0.78
6:WL:72:ALA:HB3	29:WL:202:PEB:HMA3	1.66	0.78
7:ZL:108:ARG:NH1	16:xL:41:ASN:OD1	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mL:98:VAL:HG22	7:nL:24:LEU:HD21	1.64	0.78
15:bM:319:VAL:CG2	20:mP:79:ALA:HB1	2.14	0.78
6:IM:54:GLU:CG	29:IM:202:PEB:HAC1	2.14	0.78
20:EP:13:ALA:HB3	25:YP:507:LYS:HD3	1.66	0.78
7:DQ:137:GLN:OE1	29:DQ:203:PEB:NB	2.17	0.78
6:MR:116:VAL:HG13	6:MR:120:LEU:HD12	1.65	0.78
7:XR:81:ALA:HA	7:XR:84:ARG:HH11	1.48	0.78
5:J1:18:PHE:CB	15:bB:335:ILE:HD13	2.13	0.77
29:e2:401:PEB:HAA2	7:P2:82:CYS:CB	2.01	0.77
7:R2:8:VAL:HG21	7:R2:27:LEU:HD11	1.64	0.77
6:W2:138:LEU:HD21	6:W2:144:MET:HE3	1.66	0.77
10:d4:133:PRO:HB2	29:E4:201:PEB:OD	1.85	0.77
11:D5:260:THR:HG23	7:TK:150:LYS:CA	2.13	0.77
12:E5:162:ASN:O	29:kI:203:PEB:CHB	2.32	0.77
13:k6:259:SER:HA	6:U7:67:LYS:HZ2	0.96	0.77
15:bB:407:THR:HG22	28:bP:81:VAL:CG1	2.14	0.77
7:JC:55:ALA:HB2	7:JC:134:MET:SD	2.24	0.77
6:HD:81:LYS:HE2	6:HD:84:ARG:NH1	1.98	0.77
6:hF:48:HIS:HA	6:hF:51:VAL:HG22	1.66	0.77
6:hI:48:HIS:HA	6:hI:51:VAL:HG22	1.66	0.77
6:cJ:72:ALA:CA	29:cJ:201:PEB:HMA2	2.14	0.77
6:qJ:33:ARG:CZ	6:qJ:147:GLN:NE2	2.42	0.77
19:zJ:333:TYR:O	20:pP:68:PRO:HG2	1.84	0.77
6:KM:17:ARG:O	7:LM:95:TYR:OH	2.02	0.77
6:lM:57:ASP:O	6:lM:60:PHE:N	2.17	0.77
6:MR:44:LEU:CD2	6:MR:152:PHE:HE1	1.98	0.77
5:L1:40:ILE:HG13	29:L1:1002:PEB:CBA	2.13	0.77
6:Q2:142:ARG:CD	29:Q2:202:PEB:CBA	2.58	0.77
10:d4:226:ARG:NH1	6:WF:46:GLY:O	2.18	0.77
12:E5:209:ARG:HG3	6:lI:70:GLY:HA2	1.66	0.77
7:a7:26:ALA:HB2	12:E8:40:VAL:O	1.82	0.77
4:K9:57:GLN:CD	5:JI:145:THR:OG1	2.27	0.77
7:V9:136:ALA:CB	13:kH:161:ILE:HG21	2.12	0.77
6:CB:54:GLU:CG	29:CB:202:PEB:HAC1	2.14	0.77
6:JD:133:TYR:CE2	6:JD:137:ARG:NE	2.51	0.77
18:ME:304:TRP:NE1	6:gL:87:ASP:CG	2.42	0.77
18:ME:305:ALA:O	18:ME:307:PRO:CD	2.32	0.77
5:FF:15:ARG:NH2	5:FF:17:GLU:CD	2.41	0.77
7:kF:2:LEU:HG	7:kF:6:SER:OG	1.84	0.77
7:mF:1:MET:HG2	7:mF:107:ASP:OD2	1.83	0.77
7:eI:56:VAL:HG23	7:eI:59:MET:HE2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HJ:5:PHE:HZ	7:HJ:31:ILE:CG1	1.97	0.77
5:FK:40:ILE:HG13	29:FK:1002:PEB:HBA1	1.66	0.77
4:MK:111:LEU:HD23	31:MK:1001:CYC:CAB	2.14	0.77
6:fK:32:GLN:HG3	6:hK:32:GLN:HG3	1.66	0.77
16:wL:183:LYS:HG2	16:XL:40:VAL:CB	2.13	0.77
21:OP:71:MEN:O	21:OP:77:ARG:HD3	1.84	0.77
6:QR:2:LYS:NZ	6:SR:17:ARG:HH21	1.82	0.77
10:d4:147:ARG:HA	10:d4:207:MET:HG3	1.64	0.77
7:I4:74:TYR:HB3	7:I4:78:ARG:HH21	1.48	0.77
7:K4:42:ASN:OD1	7:K4:43:SER:N	2.18	0.77
7:m7:8:VAL:CG1	7:m7:23:ASP:OD2	2.32	0.77
6:J8:64:ALA:HB3	20:pP:41:GLN:NE2	2.00	0.77
7:NB:129:ARG:HG3	28:bP:121:HIS:ND1	1.98	0.77
7:ID:58:GLY:HA2	29:ID:203:PEB:CAD	2.15	0.77
18:ME:300:VAL:CG1	6:gL:49:GLU:HB3	2.14	0.77
7:kI:2:LEU:HG	7:kI:6:SER:OG	1.84	0.77
16:wJ:146:PRO:HD2	16:wJ:147:LYS:N	1.99	0.77
4:EK:145:GLN:NE2	29:LK:1002:PEB:HMC3	2.00	0.77
7:TL:25:GLN:CG	25:1P:521:THR:CB	2.52	0.77
6:gL:68:ASN:HD22	6:gL:71:GLU:CD	1.88	0.77
6:Q2:2:LYS:NZ	6:S2:17:ARG:HH21	1.82	0.77
6:W2:65:TYR:OH	6:W2:66:LEU:HD11	1.82	0.77
7:C4:165:VAL:HA	7:C4:168:TYR:HD2	1.50	0.77
7:E4:42:ASN:OD1	7:E4:43:SER:N	2.18	0.77
7:I5:79:MET:HE2	15:bB:229:LEU:CD1	2.14	0.77
13:k6:151:VAL:HG13	13:k6:156:THR:CG2	2.14	0.77
13:k6:187:THR:HG21	5:H7:141:LEU:CD1	2.15	0.77
7:I8:2:LEU:CD2	28:4P:88:LEU:CD1	2.54	0.77
5:H9:141:LEU:CD1	13:kH:187:THR:HG21	2.15	0.77
6:lB:57:ASP:O	6:lB:60:PHE:N	2.17	0.77
7:KD:165:VAL:HA	7:KD:168:TYR:HD2	1.50	0.77
6:LD:33:ARG:HG3	6:LD:33:ARG:NH2	1.99	0.77
18:ME:61:VAL:HB	18:ME:98:LEU:CB	2.09	0.77
3:BI:204:ARG:CD	31:PP:1001:CYC:O2D	2.31	0.77
7:aI:1:MET:N	7:aI:1:MET:SD	2.55	0.77
6:UJ:72:ALA:O	29:UJ:201:PEB:OA	2.03	0.77
20:EP:15:ALA:HB2	25:YP:532:LEU:HD11	1.65	0.77
6:AQ:25:GLU:CG	6:CQ:33:ARG:HG3	2.14	0.77
7:BQ:146:ALA:HA	29:BQ:203:PEB:O1B	1.84	0.77
8:eR:145:SER:HA	8:eR:149:GLN:HG2	1.64	0.77
7:RR:8:VAL:HG21	7:RR:27:LEU:HD11	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SR:54:GLU:OE1	6:SR:137:ARG:CD	2.32	0.77
3:B1:227:GLU:HG3	20:AP:52:LYS:CE	2.14	0.77
5:J1:69:PRO:CB	5:N1:16:GLY:HA3	2.14	0.77
5:L1:40:ILE:CG1	29:L1:1002:PEB:CBA	2.63	0.77
7:P1:46:SER:HB2	6:Q1:157:ASP:OD2	1.84	0.77
6:O2:142:ARG:CZ	6:IB:76:GLN:HG2	2.14	0.77
7:T2:106:GLU:O	7:T2:111:ASN:CB	2.33	0.77
7:E4:117:TYR:O	7:E4:121:GLY:N	2.18	0.77
7:E4:165:VAL:HA	7:E4:168:TYR:HD2	1.50	0.77
6:L4:21:ASN:N	6:L4:21:ASN:OD1	2.17	0.77
13:k6:261:MET:CB	6:U7:83:TYR:CE2	2.68	0.77
5:D9:38:LEU:HB2	29:D9:1002:PEB:HMD3	1.66	0.77
5:H9:141:LEU:HD13	13:kH:187:THR:OG1	1.85	0.77
6:EA:91:ARG:HG3	7:FA:18:TYR:CE1	2.20	0.77
7:KD:74:TYR:HB3	7:KD:78:ARG:HH21	1.48	0.77
18:ME:236:ASP:HA	29:SI:202:PEB:C1A	2.14	0.77
18:ME:302:ALA:HB1	18:ME:304:TRP:CZ3	2.18	0.77
13:kH:151:VAL:HG13	13:kH:156:THR:CG2	2.14	0.77
1:XI:311:ILE:HB	4:EI:14:ASN:HD21	1.49	0.77
4:CI:2:LYS:CG	4:CI:7:GLU:OE2	2.33	0.77
6:kJ:33:ARG:NH2	7:nJ:38:LEU:HD13	1.96	0.77
6:mJ:68:ASN:HD22	6:mJ:71:GLU:CD	1.88	0.77
5:LK:33:GLU:HB3	5:LK:36:GLN:HB2	1.66	0.77
16:wL:146:PRO:HD2	16:wL:147:LYS:N	1.99	0.77
6:EN:91:ARG:HG3	7:FN:18:TYR:CE1	2.20	0.77
7:FN:119:ALA:HB2	14:MN:107:PRO:HD2	1.67	0.77
21:nP:34:GLY:HA3	22:xP:30:LEU:HD13	1.64	0.77
8:eR:57:PHE:HB3	7:TR:84:ARG:HH11	1.48	0.77
8:eR:89:PRO:HG2	6:MR:107:GLU:OE1	1.84	0.77
6:OR:97:LEU:HD21	6:OR:155:TYR:HD2	1.49	0.77
6:M2:138:LEU:HD12	6:M2:143:ASP:OD2	1.83	0.77
10:d4:335:LEU:HD13	10:dD:331:GLN:NE2	1.99	0.77
7:E4:51:MET:HE3	7:E4:141:PHE:HE2	1.48	0.77
7:M4:21:GLY:HA2	7:M4:24:LEU:HD12	1.67	0.77
7:B8:108:ARG:CD	18:ME:266:GLY:O	2.30	0.77
7:L8:104:VAL:HG21	4:I9:68:GLN:NE2	2.00	0.77
3:B9:197:PHE:HB2	21:sP:50:THR:OG1	1.82	0.77
10:dD:193:GLN:HB3	10:dD:195:ARG:HH21	1.48	0.77
7:ED:42:ASN:OD1	7:ED:43:SER:N	2.18	0.77
7:GD:76:ASN:HD22	6:JD:113:ALA:HB2	1.49	0.77
4:CF:2:LYS:CG	4:CF:7:GLU:OE2	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OJ:94:ASN:ND2	7:PJ:18:TYR:HB3	1.99	0.77
7:TJ:27:LEU:O	7:TJ:31:ILE:HG13	1.84	0.77
6:kJ:114:ARG:NH2	16:xJ:210:ILE:HD11	1.98	0.77
5:JK:33:GLU:OE1	5:JK:156:LEU:HD11	1.83	0.77
7:PK:3:ASP:OD1	7:PK:99:ALA:CB	2.32	0.77
6:ML:140:VAL:CG2	6:ML:146:ALA:CA	2.61	0.77
6:YL:147:GLN:HE22	29:bL:202:PEB:CMC	1.97	0.77
6:IM:76:GLN:OE1	29:OR:202:PEB:O1C	2.03	0.77
14:MN:100:THR:O	14:MN:102:LYS:HG2	1.85	0.77
6:KQ:25:GLU:HG3	29:LQ:201:PEB:HBD2	1.67	0.77
7:P1:3:ASP:OD1	7:P1:99:ALA:CB	2.32	0.77
7:G4:42:ASN:OD1	7:G4:43:SER:N	2.18	0.77
6:J4:133:TYR:CE2	6:J4:137:ARG:CD	2.67	0.77
7:M4:51:MET:CE	7:M4:137:GLN:CG	2.61	0.77
7:I5:157:ASP:OD1	7:I5:159:THR:HG22	1.85	0.77
5:D7:38:LEU:HB2	29:D7:1002:PEB:HMD3	1.66	0.77
5:N9:102:SER:N	26:ZP:96:VAL:O	2.18	0.77
7:ID:51:MET:HE3	7:ID:141:PHE:HE2	1.48	0.77
7:KD:50:CYS:SG	29:KD:203:PEB:HAA2	2.25	0.77
7:DE:55:ALA:HB2	7:DE:134:MET:SD	2.24	0.77
7:DJ:24:LEU:O	7:DJ:27:LEU:N	2.18	0.77
7:FJ:127:SER:OG	29:FJ:201:PEB:HMA3	1.85	0.77
7:HJ:25:GLN:O	7:HJ:28:LYS:N	2.18	0.77
7:RJ:113:LEU:HD23	7:RJ:176:ILE:CG2	2.13	0.77
5:DK:35:ASN:OD1	29:DK:1002:PEB:ND	2.17	0.77
7:gK:171:ARG:NH2	14:MN:97:PHE:HZ	1.75	0.77
6:kL:147:GLN:OE1	29:nL:202:PEB:HMC1	1.82	0.77
15:bM:90:TYR:OH	7:NM:85:ASP:OD1	2.01	0.77
6:UM:142:ARG:NH1	14:MQ:111:ARG:CZ	2.48	0.77
7:mM:62:GLU:OE2	7:mM:129:ARG:NE	2.14	0.77
21:wP:72:MET:HA	21:wP:77:ARG:CB	2.13	0.77
4:G1:21:ASN:HD21	4:I1:152:ALA:CB	1.97	0.77
5:J1:22:THR:HG21	15:bB:331:ALA:HB1	0.77	0.77
6:S2:116:VAL:HG13	6:S2:120:LEU:HD12	1.65	0.77
6:S2:118:ARG:NH1	6:U2:114:ARG:NE	2.33	0.77
6:D4:21:ASN:OD1	6:D4:21:ASN:N	2.17	0.77
7:I4:42:ASN:OD1	7:I4:43:SER:N	2.18	0.77
7:F5:79:MET:HE2	7:kI:147:THR:HG23	1.66	0.77
7:I5:7:ARG:NE	28:bP:138:LEU:HD22	1.98	0.77
7:I5:74:TYR:C	7:I5:75:THR:HG1	1.92	0.77
5:N7:38:LEU:HB2	29:N7:1002:PEB:HMD3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a7:26:ALA:HB1	12:E8:40:VAL:CB	2.14	0.77
7:I8:14:ALA:CA	21:nP:124:GLY:H	1.98	0.77
5:H9:150:ILE:HG21	7:ZM:159:THR:HG22	1.67	0.77
6:S9:137:ARG:HH12	13:kH:118:ARG:CG	1.97	0.77
7:LC:55:ALA:HB2	7:LC:134:MET:SD	2.24	0.77
7:MD:117:TYR:O	7:MD:121:GLY:N	2.18	0.77
7:HG:107:ASP:O	14:MG:298:ARG:NE	2.12	0.77
7:BJ:33:ASP:HB3	7:BJ:36:LYS:HE2	1.66	0.77
6:WJ:72:ALA:CB	29:WJ:202:PEB:C1A	2.63	0.77
6:uJ:68:ASN:HD22	6:uJ:71:GLU:CD	1.88	0.77
19:zJ:343:GLN:CG	20:iP:60:GLN:O	2.31	0.77
5:LK:40:ILE:HG12	29:LK:1002:PEB:HBA1	1.63	0.77
15:bM:343:PHE:CZ	20:mP:64:ASP:HA	2.19	0.77
7:BO:120:LEU:HD21	29:BO:201:PEB:CBB	2.15	0.77
3:B1:17:VAL:CG2	31:N1:1001:CYC:HBA1	2.15	0.77
5:F1:41:VAL:HG21	5:F1:98:ILE:HG12	1.65	0.77
8:e2:249:TYR:CD1	29:W7:202:PEB:CMA	2.68	0.77
6:S2:54:GLU:OE1	6:S2:137:ARG:CD	2.32	0.77
7:B3:120:LEU:HD21	29:B3:201:PEB:HBB1	1.67	0.77
7:L3:164:GLU:CD	7:K5:79:MET:CE	2.58	0.77
7:M4:117:TYR:O	7:M4:121:GLY:N	2.18	0.77
7:M4:165:VAL:HA	7:M4:168:TYR:HD2	1.50	0.77
13:k6:187:THR:OG1	5:H7:141:LEU:CD1	2.33	0.77
7:I8:157:ASP:CG	7:I8:159:THR:HG22	2.10	0.77
5:L9:38:LEU:HB2	29:L9:1002:PEB:HMD3	1.66	0.77
7:MD:165:VAL:HA	7:MD:168:TYR:HD2	1.50	0.77
18:ME:301:ASN:CB	6:gL:53:LYS:CD	2.46	0.77
7:LG:136:ALA:CB	29:LG:203:PEB:O1C	2.33	0.77
5:JI:18:PHE:HE2	27:aP:98:GLN:HG3	1.48	0.77
6:eJ:68:ASN:HD22	6:eJ:71:GLU:CD	1.88	0.77
7:IJ:109:CYS:C	16:xJ:176:TYR:OH	2.28	0.77
7:BL:33:ASP:HB3	7:BL:36:LYS:HE2	1.66	0.77
19:zL:366:ARG:NH1	21:LP:62:TYR:HE2	1.83	0.77
20:PP:5:THR:HG23	21:UP:1:MET:SD	2.25	0.77
28:4P:42:ALA:O	28:4P:44:PRO:HD3	1.84	0.77
6:OR:137:ARG:HG3	29:OR:202:PEB:HHC1	1.66	0.77
7:m1:97:LEU:CD1	7:m1:165:VAL:CG2	2.62	0.77
6:O2:141:PRO:HA	6:IB:67:LYS:NZ	2.00	0.77
6:O2:142:ARG:NE	6:IB:76:GLN:OE1	2.18	0.77
10:d4:132:GLY:HA2	7:E4:108:ARG:O	1.85	0.77
7:C4:58:GLY:C	29:C4:203:PEB:CBD	2.58	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:81:LYS:HD3	6:F4:84:ARG:HH11	1.48	0.77
6:H4:21:ASN:N	6:H4:21:ASN:OD1	2.17	0.77
5:F7:62:GLU:OE2	7:a7:15:LYS:HA	1.83	0.77
7:V7:173:GLY:O	7:V7:177:SER:OG	2.03	0.77
7:I8:27:LEU:CD2	19:zJ:298:ALA:CB	2.62	0.77
5:H9:141:LEU:CD1	13:kH:187:THR:OG1	2.33	0.77
29:Q9:202:PEB:CBC	5:FK:21:ASN:HD22	1.98	0.77
6:U9:83:TYR:CZ	13:kH:261:MET:HG3	2.04	0.77
7:DA:109:CYS:O	7:DA:113:LEU:CD1	2.33	0.77
6:UB:142:ARG:HD2	14:MG:112:LEU:O	1.85	0.77
18:MC:277:ARG:NE	5:DF:17:GLU:CD	2.42	0.77
7:CD:21:GLY:HA2	7:CD:24:LEU:HD12	1.67	0.77
7:CD:51:MET:HE3	7:CD:141:PHE:HE2	1.48	0.77
6:LD:18:PHE:CE1	7:MD:91:ARG:NE	2.47	0.77
6:bF:48:HIS:HA	6:bF:51:VAL:HG22	1.66	0.77
5:LI:75:THR:HG22	5:LI:76:SER:H	1.50	0.77
6:AJ:147:GLN:HE22	29:AJ:203:PEB:C3C	1.97	0.77
7:IJ:38:LEU:HD13	6:mJ:33:ARG:HH22	1.50	0.77
16:xJ:251:TYR:CE2	16:xJ:255:GLN:CD	2.36	0.77
6:UL:72:ALA:O	29:UL:201:PEB:OA	2.03	0.77
19:zL:366:ARG:CZ	21:LP:61:LEU:HD23	2.15	0.77
6:AN:28:GLN:NE2	29:BN:202:PEB:OD	2.18	0.77
6:OR:115:GLU:HA	6:OR:118:ARG:HE	1.50	0.77
6:SR:116:VAL:HG13	6:SR:120:LEU:HD12	1.65	0.77
6:WR:116:VAL:HG13	6:WR:120:LEU:HD12	1.65	0.77
5:L1:33:GLU:OE1	5:L1:156:LEU:HD11	1.85	0.76
6:O2:115:GLU:HA	6:O2:118:ARG:HE	1.50	0.76
6:K3:57:ASP:OD2	27:aP:169:THR:OG1	2.01	0.76
10:d4:193:GLN:HB3	10:d4:195:ARG:HH21	1.48	0.76
7:C4:58:GLY:HA3	29:C4:203:PEB:C3D	2.14	0.76
7:E4:21:GLY:HA2	7:E4:24:LEU:HD12	1.67	0.76
7:K4:117:TYR:O	7:K4:121:GLY:N	2.18	0.76
29:LC:201:PEB:HAB2	18:MC:219:SER:HB3	1.66	0.76
6:BD:118:ARG:HH12	6:LD:114:ARG:CB	1.97	0.76
7:ID:42:ASN:OD1	7:ID:43:SER:N	2.18	0.76
5:JK:18:PHE:HD1	15:bM:335:ILE:HD11	1.10	0.76
5:JK:34:GLY:O	5:JK:38:LEU:HG	1.84	0.76
6:ML:140:VAL:HG21	6:ML:146:ALA:HB2	1.67	0.76
19:zL:320:PHE:HD2	20:NP:79:ALA:O	1.67	0.76
6:GM:157:ASP:OD2	7:JM:46:SER:HA	1.85	0.76
7:LM:62:GLU:OE2	7:LM:129:ARG:NE	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NM:17:ALA:HB1	21:oP:135:GLU:OE2	1.85	0.76
21:oP:128:GLN:HA	21:oP:128:GLN:HE21	1.49	0.76
7:BQ:140:ALA:HB1	29:BQ:203:PEB:CBB	2.15	0.76
6:KQ:2:LYS:HZ1	30:MQ:404:PUB:CGB	1.94	0.76
6:QR:97:LEU:HD21	6:QR:155:TYR:HD2	1.49	0.76
6:QR:116:VAL:HG13	6:QR:120:LEU:HD12	1.65	0.76
3:B1:203:ILE:HG23	20:JP:82:LEU:HD11	1.66	0.76
5:N1:40:ILE:HG13	29:N1:1002:PEB:CBA	2.15	0.76
29:e2:401:PEB:HAA1	7:P2:82:CYS:HB2	0.77	0.76
7:C4:117:TYR:O	7:C4:121:GLY:N	2.18	0.76
6:H4:137:ARG:HH11	29:H4:202:PEB:CHB	1.95	0.76
7:K4:21:GLY:HA2	7:K4:24:LEU:HD12	1.67	0.76
7:I5:157:ASP:CG	7:I5:159:THR:HG22	2.10	0.76
13:k6:151:VAL:HG13	13:k6:156:THR:HG21	1.67	0.76
5:H7:77:ARG:HH22	31:H7:1001:CYC:CBD	1.98	0.76
7:I8:157:ASP:OD1	7:I8:159:THR:HG22	1.85	0.76
6:EC:33:ARG:O	6:EC:36:ALA:N	2.15	0.76
7:ID:165:VAL:HA	7:ID:168:TYR:HD2	1.50	0.76
6:JD:133:TYR:CE2	6:JD:137:ARG:CD	2.67	0.76
7:KD:42:ASN:OD1	7:KD:43:SER:N	2.18	0.76
18:ME:304:TRP:CD1	6:gL:84:ARG:CA	2.56	0.76
7:eF:56:VAL:HG23	7:eF:59:MET:HE2	1.65	0.76
6:AG:38:LEU:HD21	6:AG:98:VAL:HA	0.77	0.76
16:wJ:36:GLN:O	16:wJ:43:LYS:NZ	2.17	0.76
7:FL:127:SER:OG	29:FL:201:PEB:HMA3	1.85	0.76
6:OL:94:ASN:ND2	7:PL:18:TYR:HB3	1.99	0.76
7:TL:27:LEU:O	7:TL:31:ILE:HG13	1.84	0.76
19:zL:332:LEU:HB2	20:NP:67:SER:OG	1.84	0.76
7:RM:58:GLY:O	7:RM:61:CYS:SG	2.43	0.76
6:EN:37:ARG:CG	6:EN:97:LEU:O	2.33	0.76
7:LN:109:CYS:O	7:LN:113:LEU:CD1	2.33	0.76
14:MN:295:PHE:HB3	14:MN:299:ARG:HE	1.50	0.76
6:AQ:38:LEU:HD21	6:AQ:98:VAL:HA	0.77	0.76
8:eR:57:PHE:CE2	7:TR:80:ALA:CB	2.64	0.76
6:SR:118:ARG:NH1	6:UR:114:ARG:NE	2.33	0.76
6:WR:97:LEU:HD21	6:WR:155:TYR:HD2	1.49	0.76
4:E1:77:SER:HB3	13:k6:104:GLN:HE22	1.49	0.76
4:M1:1:MET:HG2	5:N1:6:ALA:HB1	1.67	0.76
6:f1:32:GLN:HG3	6:h1:32:GLN:HG3	1.66	0.76
7:G4:117:TYR:O	7:G4:121:GLY:N	2.18	0.76
7:K4:147:THR:HG23	29:K4:203:PEB:CGB	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:28:LYS:HB2	19:zL:290:LEU:HB3	1.65	0.76
7:i7:72:MEN:OD1	7:i7:122:VAL:HG22	1.85	0.76
4:E9:93:ARG:NH1	8:eR:297:GLY:O	2.18	0.76
5:H9:38:LEU:HB2	29:H9:1002:PEB:HMD3	1.66	0.76
6:U9:83:TYR:CD2	13:kH:261:MET:CG	2.52	0.76
7:NB:129:ARG:HG3	28:bP:121:HIS:CB	2.15	0.76
6:IC:14:ALA:HB1	18:MC:51:PRO:CG	2.14	0.76
18:MC:61:VAL:HB	18:MC:98:LEU:CB	2.09	0.76
7:CD:165:VAL:HA	7:CD:168:TYR:HD2	1.50	0.76
5:JF:65:GLN:HG3	20:rP:68:PRO:N	2.01	0.76
1:XI:229:ALA:HB1	7:TI:116:THR:HG23	1.67	0.76
3:BI:204:ARG:HH22	21:SP:57:ALA:HB1	1.51	0.76
6:WJ:72:ALA:HB3	29:WJ:202:PEB:HMA3	1.66	0.76
19:zJ:212:PHE:CA	19:zJ:216:TYR:OH	2.33	0.76
5:HK:40:ILE:HG13	29:HK:1002:PEB:CBA	2.13	0.76
5:LK:33:GLU:OE1	5:LK:156:LEU:HD11	1.85	0.76
7:eK:97:LEU:CD1	7:eK:165:VAL:CG2	2.62	0.76
6:oL:108:TRP:HH2	7:pL:10:VAL:HA	1.51	0.76
19:zL:212:PHE:CA	19:zL:216:TYR:OH	2.33	0.76
7:DN:109:CYS:O	7:DN:113:LEU:CD1	2.33	0.76
21:BP:128:GLN:OE1	23:WP:73:ALA:HA	1.85	0.76
20:KP:25:ARG:HH22	25:YP:45:SER:HB2	1.49	0.76
25:YP:846:PRO:HB2	25:YP:849:ASN:HB2	1.65	0.76
20:iP:15:ALA:HB2	25:1P:246:GLY:HA3	1.65	0.76
14:MQ:236:TYR:HE2	29:MQ:402:PEB:HMD2	1.47	0.76
29:eR:401:PEB:HAA2	7:PR:82:CYS:SG	2.25	0.76
7:TR:106:GLU:O	7:TR:111:ASN:CB	2.33	0.76
6:M2:44:LEU:CD2	6:M2:152:PHE:HE1	1.98	0.76
6:O2:142:ARG:HA	6:lB:79:ILE:CD1	2.15	0.76
13:k6:187:THR:OG1	5:H7:141:LEU:HD13	1.85	0.76
7:I8:91:ARG:NH1	28:4P:118:LEU:O	2.18	0.76
4:E9:86:ARG:N	8:eR:296:PRO:HB3	2.00	0.76
5:N9:38:LEU:HB2	29:N9:1002:PEB:HMD3	1.66	0.76
6:EA:37:ARG:CG	6:EA:97:LEU:O	2.33	0.76
15:bB:90:TYR:OH	7:NB:85:ASP:OD1	2.03	0.76
15:bB:381:GLU:OE1	7:FB:63:ASN:ND2	2.18	0.76
6:UB:67:LYS:HE2	14:MG:97:PHE:CZ	2.18	0.76
7:CD:42:ASN:OD1	7:CD:43:SER:N	2.18	0.76
7:GD:117:TYR:O	7:GD:121:GLY:N	2.18	0.76
7:MD:42:ASN:OD1	7:MD:43:SER:N	2.18	0.76
5:DF:75:THR:HG22	5:DF:76:SER:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OF:32:GLN:HG3	6:QF:32:GLN:HG3	1.66	0.76
29:DG:201:PEB:HBC2	14:MG:276:GLU:OE1	1.83	0.76
6:EG:14:ALA:HB2	14:MG:188:MET:SD	2.25	0.76
7:FG:58:GLY:CA	29:FG:203:PEB:CMD	2.64	0.76
7:LG:116:THR:HA	14:MG:233:ALA:HB1	1.66	0.76
29:GJ:202:PEB:OA	20:EP:113:LYS:CD	2.33	0.76
3:BK:130:ILE:HD11	5:JK:84:ARG:HD2	1.66	0.76
7:NL:114:LYS:HE3	7:NL:177:SER:OXT	1.80	0.76
7:TL:25:GLN:CD	25:1P:521:THR:CG2	2.49	0.76
15:bM:335:ILE:CB	15:bM:340:GLU:HG2	2.14	0.76
7:iM:62:GLU:OE2	7:iM:129:ARG:NE	2.14	0.76
7:FN:108:ARG:C	14:MN:184:ARG:NH2	2.44	0.76
7:JN:20:GLY:C	7:JN:24:LEU:HD13	2.10	0.76
21:QP:75:THR:HG22	20:TP:115:MET:SD	2.25	0.76
20:gP:100:ASP:OD2	20:gP:102:THR:OG1	2.04	0.76
20:tP:14:GLU:HA	25:1P:708:PHE:HZ	1.49	0.76
7:LQ:50:CYS:SG	29:LQ:202:PEB:CAA	2.73	0.76
7:LQ:137:GLN:HE22	29:LQ:202:PEB:HHA1	1.49	0.76
5:F1:21:ASN:HD22	29:Q7:202:PEB:CBC	1.98	0.76
6:Q1:5:ILE:CB	7:R1:3:ASP:OD2	2.33	0.76
6:U1:154:ALA:HA	6:U1:157:ASP:OD1	1.85	0.76
7:V1:97:LEU:CD1	7:V1:165:VAL:CG2	2.62	0.76
7:V1:174:ALA:HB2	14:MA:96:LYS:HD2	1.68	0.76
29:e2:401:PEB:C3A	7:P2:82:CYS:HB2	2.13	0.76
6:Q2:139:CYS:O	6:Q2:143:ASP:CG	2.28	0.76
6:Q2:145:SER:O	6:Q2:147:GLN:N	2.19	0.76
7:M4:42:ASN:OD1	7:M4:43:SER:N	2.18	0.76
7:L8:79:MET:HE1	13:kH:233:VAL:HG21	1.62	0.76
12:E8:188:ALA:HB2	6:bF:64:ALA:HB2	1.59	0.76
6:U9:83:TYR:CE2	13:kH:261:MET:CB	2.68	0.76
6:W9:137:ARG:NH1	8:eR:258:ASN:HD22	1.83	0.76
6:lB:57:ASP:OD1	6:lB:58:ALA:N	2.19	0.76
7:ED:117:TYR:O	7:ED:121:GLY:N	2.18	0.76
7:ID:21:GLY:HA2	7:ID:24:LEU:HD12	1.67	0.76
6:UF:48:HIS:HA	6:UF:51:VAL:HG22	1.66	0.76
7:FG:58:GLY:CA	29:FG:203:PEB:C2D	2.64	0.76
3:BI:221:PHE:HE1	27:aP:81:LEU:CD2	1.93	0.76
5:JK:17:GLU:CB	15:bM:335:ILE:CD1	2.62	0.76
5:LK:40:ILE:CG1	29:LK:1002:PEB:CBA	2.63	0.76
6:QK:5:ILE:CB	7:RK:3:ASP:OD2	2.33	0.76
15:bM:90:TYR:C	7:NM:84:ARG:HH12	1.94	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BO:120:LEU:HD21	29:BO:201:PEB:HBB1	1.67	0.76
21:dP:90:ARG:NH2	20:eP:15:ALA:HA	2.01	0.76
20:rP:23:LEU:HD22	21:wP:38:VAL:HG13	1.68	0.76
4:M1:111:LEU:HD23	31:M1:1001:CYC:CAB	2.14	0.76
6:M2:138:LEU:HA	29:M2:202:PEB:HMD1	1.67	0.76
6:Q2:97:LEU:HD21	6:Q2:155:TYR:HD2	1.49	0.76
6:S2:85:ASP:OD1	29:S2:201:PEB:C1D	2.29	0.76
10:d4:331:GLN:HG3	10:dD:335:LEU:CD1	2.11	0.76
7:K4:165:VAL:HA	7:K4:168:TYR:HD2	1.50	0.76
4:M7:6:THR:HG23	5:N7:3:ASP:CG	2.10	0.76
6:l7:90:MET:O	6:l7:93:VAL:HG12	1.86	0.76
7:B8:91:ARG:HH21	18:ME:293:MET:HG3	1.49	0.76
6:KA:11:ALA:HA	14:MA:255:TYR:OH	1.85	0.76
15:bB:90:TYR:O	7:NB:84:ARG:NH1	2.16	0.76
6:GB:157:ASP:OD2	7:JB:46:SER:HA	1.85	0.76
7:HB:62:GLU:OE2	7:HB:129:ARG:NE	2.14	0.76
7:VB:82:CYS:C	7:VB:85:ASP:OD1	2.29	0.76
6:WB:33:ARG:NH1	6:WB:147:GLN:NE2	2.33	0.76
6:BD:33:ARG:HG3	6:DD:25:GLU:OE1	1.86	0.76
6:FD:81:LYS:O	6:FD:84:ARG:CD	2.33	0.76
7:KD:117:TYR:O	7:KD:121:GLY:N	2.18	0.76
7:MD:51:MET:HE3	7:MD:141:PHE:HE2	1.48	0.76
18:ME:200:ARG:HH11	18:ME:237:PHE:HD2	1.22	0.76
5:FF:15:ARG:NH2	5:FF:17:GLU:OE1	2.18	0.76
7:LG:115:GLU:C	14:MG:233:ALA:HB2	2.11	0.76
7:LG:141:PHE:HZ	29:LG:203:PEB:HMA1	1.51	0.76
7:RI:147:THR:OG1	7:RI:148:GLU:OE1	2.04	0.76
6:WJ:72:ALA:HB1	29:WJ:202:PEB:OA	1.84	0.76
6:kJ:17:ARG:NH1	6:mJ:158:TYR:OH	2.15	0.76
4:EK:4:PRO:HG2	4:EK:30:ARG:CD	2.12	0.76
7:HL:25:GLN:O	7:HL:28:LYS:N	2.18	0.76
17:BM:81:ALA:HA	7:RM:115:GLU:OE1	1.86	0.76
6:jM:53:LYS:HZ2	6:jM:53:LYS:HB3	1.50	0.76
7:FQ:137:GLN:HE22	29:FQ:203:PEB:HHA1	0.94	0.76
6:UR:97:LEU:HD21	6:UR:155:TYR:HD2	1.49	0.76
3:B1:20:PHE:HE1	4:K1:117:GLU:CD	1.94	0.76
3:B1:91:ALA:HB3	4:G1:15:GLN:NE2	2.00	0.76
7:g1:97:LEU:CD1	7:g1:165:VAL:CG2	2.62	0.76
7:C4:42:ASN:OD1	7:C4:43:SER:N	2.18	0.76
6:F4:81:LYS:O	6:F4:84:ARG:CD	2.33	0.76
7:I4:88:ILE:HG21	29:I4:201:PEB:HAD1	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:187:THR:HB	5:H7:141:LEU:CD1	2.14	0.76
3:B7:227:GLU:HG2	20:rP:52:LYS:HE2	1.66	0.76
6:W7:140:VAL:CG1	6:W7:145:SER:O	2.23	0.76
7:k7:147:THR:HG22	7:G8:150:LYS:O	1.72	0.76
31:E9:1001:CYC:CBB	5:H9:75:THR:HA	2.16	0.76
6:U9:69:PRO:C	8:eR:275:GLY:HA2	2.01	0.76
6:KB:17:ARG:O	7:LB:95:TYR:OH	2.02	0.76
7:ED:21:GLY:HA2	7:ED:24:LEU:HD12	1.67	0.76
7:ED:66:LEU:HB3	7:ED:73:CYS:HB2	1.68	0.76
7:KD:133:ILE:HG13	29:KD:203:PEB:HBC1	1.65	0.76
7:MD:21:GLY:HA2	7:MD:24:LEU:HD12	1.67	0.76
18:ME:242:LYS:CD	29:SI:202:PEB:CBB	2.60	0.76
18:ME:255:LYS:O	18:ME:256:THR:HG23	1.86	0.76
18:ME:268:VAL:HG13	7:PI:148:GLU:HA	1.54	0.76
5:LF:75:THR:HG22	5:LF:76:SER:H	1.50	0.76
6:AG:25:GLU:CG	6:CG:33:ARG:HG3	2.14	0.76
7:FG:58:GLY:O	7:FG:62:GLU:CD	2.29	0.76
6:IG:14:ALA:HA	14:MG:260:ALA:HA	1.66	0.76
7:HJ:115:GLU:OE2	7:HJ:115:GLU:N	2.17	0.76
6:oJ:108:TRP:HH2	7:pJ:10:VAL:HA	1.51	0.76
5:FK:41:VAL:HG21	5:FK:98:ILE:HG12	1.65	0.76
5:JK:17:GLU:CB	15:bM:340:GLU:CD	2.42	0.76
6:UK:154:ALA:HA	6:UK:157:ASP:OD1	1.85	0.76
7:kK:97:LEU:CD1	7:kK:165:VAL:CG2	2.62	0.76
6:WL:72:ALA:CB	29:WL:202:PEB:C1A	2.63	0.76
16:wL:179:ALA:HB1	16:xL:40:VAL:HG23	1.66	0.76
19:zL:363:ARG:HE	21:LP:62:TYR:HD1	1.27	0.76
27:aP:270:ARG:HG2	27:aP:270:ARG:NH1	1.96	0.76
6:SR:85:ASP:CG	29:SR:201:PEB:HHC1	2.10	0.76
5:J1:17:GLU:CD	15:bB:333:ARG:HD2	2.11	0.76
6:b1:25:GLU:HG2	6:d1:33:ARG:HG3	1.67	0.76
6:O2:142:ARG:CD	6:lB:76:GLN:OE1	2.33	0.76
6:B4:54:GLU:OE2	6:B4:137:ARG:NE	2.15	0.76
7:G4:165:VAL:HA	7:G4:168:TYR:HD2	1.50	0.76
7:I5:79:MET:SD	15:bB:229:LEU:C	2.68	0.76
5:F7:38:LEU:HB2	29:F7:1002:PEB:HMD3	1.66	0.76
7:a7:29:SER:OG	12:E8:43:ALA:HB1	1.85	0.76
7:I8:30:PHE:CZ	28:4P:132:PRO:HD2	2.20	0.76
5:H9:77:ARG:HH22	31:H9:1001:CYC:CBD	1.98	0.76
6:U9:141:PRO:HB2	7:XM:25:GLN:HE21	1.45	0.76
17:BB:81:ALA:HA	7:RB:115:GLU:OE1	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DB:85:ASP:OD1	29:DB:201:PEB:H1D1	1.86	0.76
7:gB:35:ASN:H	7:gB:35:ASN:HD22	1.30	0.76
10:dD:129:GLU:OE1	7:ED:108:ARG:NH2	2.19	0.76
7:ID:66:LEU:HB3	7:ID:73:CYS:HB2	1.68	0.76
7:BG:41:VAL:CG2	7:BG:98:LEU:HD21	2.07	0.76
6:EG:6:THR:HB	14:MG:194:ILE:CD1	2.15	0.76
7:HG:116:THR:HG22	14:MG:291:ALA:HB1	1.67	0.76
6:SJ:51:VAL:HG23	6:SJ:52:VAL:H	1.43	0.76
7:hJ:116:THR:OG1	16:xJ:49:ALA:HB1	1.85	0.76
19:zJ:363:ARG:CA	21:nP:62:TYR:CE1	2.68	0.76
7:NM:85:ASP:OD2	29:NM:201:PEB:HHC1	1.85	0.76
29:FN:201:PEB:HBC2	14:MN:174:ARG:HH11	1.40	0.76
7:NO:91:ARG:HH21	9:OO:377:ALA:HB3	1.49	0.76
21:DP:15:GLN:NE2	23:WP:133:ILE:O	2.17	0.76
21:uP:71:MEN:O	21:uP:77:ARG:HD3	1.85	0.76
8:e2:187:PHE:CE1	6:W2:14:ALA:HB1	2.21	0.76
10:d4:283:ARG:HA	10:d4:283:ARG:NE	2.01	0.76
7:C4:21:GLY:HA2	7:C4:24:LEU:HD12	1.67	0.76
7:I4:21:GLY:HA2	7:I4:24:LEU:HD12	1.67	0.76
7:G5:150:LYS:O	7:k9:147:THR:CG2	2.33	0.76
7:I5:91:ARG:NH1	28:bP:118:LEU:O	2.19	0.76
7:L8:79:MET:HE1	13:kH:233:VAL:CB	2.16	0.76
5:F9:17:GLU:HG3	8:eR:301:PHE:CE2	2.21	0.76
7:CD:117:TYR:O	7:CD:121:GLY:N	2.18	0.76
7:GD:42:ASN:OD1	7:GD:43:SER:N	2.18	0.76
5:FF:75:THR:HG22	5:FF:76:SER:H	1.50	0.76
6:KG:25:GLU:HG3	29:LG:202:PEB:HBD2	1.67	0.76
13:kH:151:VAL:HG13	13:kH:156:THR:HG21	1.67	0.76
6:WJ:74:GLU:N	6:WJ:78:LYS:HG3	2.00	0.76
6:SL:51:VAL:HG23	6:SL:52:VAL:H	1.43	0.76
6:WL:72:ALA:CB	29:WL:202:PEB:HMA2	2.13	0.76
7:fL:107:ASP:HB3	16:wL:140:LYS:NZ	2.01	0.76
19:zL:215:THR:C	19:zL:217:ALA:H	1.92	0.76
6:GM:135:ARG:NH1	7:JM:149:ARG:HH11	1.83	0.76
21:fP:17:LYS:O	20:gP:94:TYR:OH	2.01	0.76
6:IQ:2:LYS:HZ1	14:MQ:254:VAL:HG22	1.50	0.76
6:W1:55:ALA:HB2	6:W1:134:THR:HG23	1.68	0.76
8:e2:290:ARG:CZ	5:F7:15:ARG:NH1	2.46	0.76
6:Q2:39:GLU:OE1	6:Q2:144:MET:CB	2.32	0.76
10:d4:331:GLN:CB	10:dD:331:GLN:HE22	1.99	0.76
7:G4:58:GLY:H	29:G4:203:PEB:HMD2	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I4:117:TYR:O	7:I4:121:GLY:N	2.18	0.76
6:J4:54:GLU:CD	6:J4:137:ARG:HH11	1.94	0.76
7:M4:66:LEU:HB3	7:M4:73:CYS:HB2	1.68	0.76
5:H7:38:LEU:HB2	29:H7:1002:PEB:HMD3	1.66	0.76
7:B8:108:ARG:HG2	18:ME:266:GLY:HA3	1.67	0.76
7:K8:1:MET:HE3	7:K8:104:VAL:HG21	1.68	0.76
7:LA:109:CYS:O	7:LA:113:LEU:CD1	2.33	0.76
6:AC:24:LEU:HD13	7:BC:38:LEU:HB3	1.68	0.76
7:GD:21:GLY:HA2	7:GD:24:LEU:HD12	1.67	0.76
7:LE:116:THR:CB	18:ME:213:THR:CB	2.60	0.76
1:XF:311:ILE:HB	4:EF:14:ASN:HD21	1.49	0.76
7:eF:147:THR:OG1	7:eF:148:GLU:OE1	2.04	0.76
7:LG:137:GLN:NE2	29:LG:203:PEB:CHA	2.48	0.76
7:aI:147:THR:OG1	7:aI:148:GLU:OE1	2.04	0.76
6:bI:48:HIS:HA	6:bI:51:VAL:HG22	1.66	0.76
7:FJ:145:THR:HG1	25:YP:514:ILE:HG21	1.47	0.76
7:NJ:125:ASN:ND2	7:fJ:70:GLY:O	2.19	0.76
7:PJ:20:GLY:O	7:PJ:22:SER:N	2.19	0.76
7:VJ:155:ALA:HB2	7:NO:66:LEU:HD12	1.67	0.76
7:IJ:108:ARG:CB	16:xJ:183:LYS:NZ	2.44	0.76
5:NK:19:LEU:HD13	5:NK:23:GLN:CD	2.11	0.76
7:DL:24:LEU:O	7:DL:27:LEU:N	2.18	0.76
7:NL:125:ASN:ND2	7:fL:70:GLY:O	2.19	0.76
16:wL:176:TYR:CA	16:xL:39:LEU:CD1	2.62	0.76
7:VM:82:CYS:C	7:VM:85:ASP:OD1	2.29	0.76
21:OP:62:TYR:CE1	22:VP:80:LEU:HD13	2.21	0.76
20:IP:100:ASP:OD2	20:IP:102:THR:OG1	2.04	0.76
20:rP:100:ASP:OD2	20:rP:102:THR:OG1	2.04	0.76
5:H1:145:THR:CG2	29:H1:1002:PEB:OA	2.34	0.75
7:c1:97:LEU:CD1	7:c1:165:VAL:CG2	2.62	0.75
10:d4:338:GLU:CB	10:dD:327:SER:OG	2.33	0.75
31:E7:1001:CYC:CBB	5:H7:75:THR:HA	2.16	0.75
7:I8:79:MET:SD	15:bM:229:LEU:C	2.69	0.75
3:B9:225:VAL:CA	3:B9:228:MET:CE	2.60	0.75
7:i9:72:MEN:OD1	7:i9:122:VAL:HG22	1.85	0.75
6:l9:90:MET:O	6:l9:93:VAL:HG12	1.86	0.75
6:AA:28:GLN:NE2	29:BA:202:PEB:OD	2.18	0.75
7:JA:20:GLY:C	7:JA:24:LEU:HD13	2.10	0.75
16:AB:251:TYR:OH	29:kB:201:PEB:O1C	2.04	0.75
6:WB:33:ARG:NH1	6:WB:147:GLN:HE21	1.84	0.75
18:MC:215:THR:C	18:MC:217:SER:N	2.44	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:JD:113:ALA:O	6:JD:115:GLU:N	2.20	0.75
6:KE:44:LEU:CD2	29:KE:203:PEB:CBD	2.61	0.75
16:xJ:255:GLN:OE1	29:xJ:302:PEB:CMD	2.34	0.75
3:BK:205:ARG:NH2	20:IP:52:LYS:CE	2.48	0.75
4:GK:45:THR:HG23	5:HK:18:PHE:CD2	2.21	0.75
6:OK:5:ILE:CD1	7:PK:3:ASP:OD2	2.34	0.75
6:WL:72:ALA:HB1	29:WL:202:PEB:OA	1.84	0.75
19:zL:339:VAL:HG11	20:RP:63:PRO:HB2	1.67	0.75
19:zL:366:ARG:NH2	21:LP:61:LEU:HD23	2.01	0.75
7:NM:25:GLN:CG	21:OP:147:LYS:HB3	1.95	0.75
21:hP:128:GLN:OE1	23:yP:73:ALA:HA	1.85	0.75
7:VR:84:ARG:HG2	7:VR:84:ARG:NH1	1.98	0.75
4:II:142:LEU:C	4:II:147:ALA:HB2	2.11	0.75
6:M2:17:ARG:NH2	6:O2:2:LYS:NZ	2.28	0.75
7:B3:120:LEU:HD21	29:B3:201:PEB:CBB	2.15	0.75
6:F4:139:CYS:HB2	6:F4:142:ARG:HG2	1.68	0.75
7:G4:66:LEU:HB3	7:G4:73:CYS:HB2	1.68	0.75
7:G4:147:THR:HG23	29:G4:203:PEB:CGB	2.16	0.75
7:M4:124:THR:H	6:UF:69:PRO:HG2	0.62	0.75
5:F9:38:LEU:HB2	29:F9:1002:PEB:HMD3	1.66	0.75
6:Q9:53:LYS:NZ	4:EK:49:GLN:C	2.41	0.75
7:ID:88:ILE:HG21	29:ID:201:PEB:HAD1	1.67	0.75
4:EF:145:GLN:HE21	29:LF:1002:PEB:CMC	2.00	0.75
7:iF:147:THR:OG1	7:iF:148:GLU:OE1	2.04	0.75
7:BG:140:ALA:CB	29:BG:203:PEB:CBB	2.63	0.75
4:EI:145:GLN:HE21	29:LI:1002:PEB:CMC	2.00	0.75
7:TK:97:LEU:CD1	7:TK:165:VAL:CG2	2.62	0.75
7:TL:33:ASP:OD1	7:TL:33:ASP:N	2.16	0.75
6:OL:28:GLN:HB2	6:QL:33:ARG:NH2	2.01	0.75
20:AP:100:ASP:OD2	20:AP:102:THR:OG1	2.04	0.75
20:JP:151:PHE:CE1	21:MP:42:ALA:HB1	2.21	0.75
21:OP:10:ASN:OD1	28:bP:50:TYR:HA	1.86	0.75
20:PP:100:ASP:OD2	20:PP:102:THR:OG1	2.04	0.75
8:eR:108:HIS:CD2	7:PR:84:ARG:HD2	2.13	0.75
6:QR:96:CYS:HG	6:QR:105:LEU:HG	1.52	0.75
3:B1:205:ARG:NE	3:B1:205:ARG:HA	2.02	0.75
10:d4:129:GLU:OE1	7:E4:108:ARG:NH2	2.19	0.75
7:I4:1:MET:HE3	7:I4:108:ARG:NH1	1.85	0.75
6:J4:113:ALA:O	6:J4:115:GLU:N	2.20	0.75
6:L4:113:ALA:O	6:L4:115:GLU:N	2.20	0.75
7:L5:79:MET:HE3	13:k6:233:VAL:HG21	0.76	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:183:TYR:CD2	6:bI:83:TYR:HB2	2.19	0.75
5:J7:75:THR:HA	31:M7:1001:CYC:HBB3	1.67	0.75
4:C9:68:GLN:HB3	4:GI:139:SER:CB	2.15	0.75
6:BD:29:GLY:CA	6:BD:32:GLN:HE22	1.97	0.75
6:FD:113:ALA:O	6:FD:115:GLU:N	2.20	0.75
7:GD:66:LEU:HB3	7:GD:73:CYS:HB2	1.68	0.75
6:HD:113:ALA:O	6:HD:115:GLU:N	2.20	0.75
6:JD:32:GLN:H	6:JD:32:GLN:CD	1.95	0.75
1:XF:229:ALA:HB1	7:TF:116:THR:HG23	1.67	0.75
7:YF:147:THR:OG1	7:YF:148:GLU:OE1	2.04	0.75
7:FG:136:ALA:HB3	29:FG:203:PEB:CGC	2.15	0.75
13:kH:104:GLN:NE2	4:EK:77:SER:HB3	2.01	0.75
6:UI:48:HIS:HA	6:UI:51:VAL:HG22	1.66	0.75
5:NK:40:ILE:HG13	29:NK:1002:PEB:CBA	2.15	0.75
6:kL:158:TYR:OH	6:mL:17:ARG:NH1	2.15	0.75
6:CM:54:GLU:CG	29:CM:202:PEB:HAC1	2.14	0.75
7:DM:85:ASP:OD1	29:DM:201:PEB:H1D1	1.86	0.75
21:FP:13:ASP:CG	20:EP:107:ILE:HD13	2.10	0.75
20:EP:100:ASP:OD2	20:EP:102:THR:OG1	2.04	0.75
20:KP:100:ASP:OD2	20:KP:102:THR:OG1	2.04	0.75
20:NP:100:ASP:OD2	20:NP:102:THR:OG1	2.04	0.75
20:mP:100:ASP:OD2	20:mP:102:THR:OG1	2.04	0.75
7:T1:97:LEU:CD1	7:T1:165:VAL:CG2	2.62	0.75
7:V2:84:ARG:O	7:V2:87:GLU:CG	2.35	0.75
10:d4:335:LEU:HD13	10:dD:331:GLN:CG	1.86	0.75
4:E9:85:ALA:C	8:eR:296:PRO:HB2	2.12	0.75
7:V9:173:GLY:O	7:V9:177:SER:OG	2.03	0.75
10:dD:338:GLU:OE2	10:dD:338:GLU:HA	1.86	0.75
6:DD:32:GLN:H	6:DD:32:GLN:CD	1.95	0.75
6:DD:113:ALA:O	6:DD:115:GLU:N	2.20	0.75
5:HF:39:ASP:OD1	29:HF:1002:PEB:CMD	2.35	0.75
6:cJ:54:GLU:OE2	6:cJ:137:ARG:CZ	2.33	0.75
7:PL:20:GLY:O	7:PL:22:SER:N	2.19	0.75
6:WM:33:ARG:NH1	6:WM:147:GLN:NE2	2.33	0.75
8:eR:85:PRO:CG	7:NR:107:ASP:O	2.34	0.75
6:H4:137:ARG:HH11	29:H4:202:PEB:C1C	2.00	0.75
7:I4:66:LEU:HB3	7:I4:73:CYS:HB2	1.68	0.75
3:B7:121:ASN:HD21	26:2P:52:GLY:CA	1.80	0.75
29:W9:202:PEB:HMA3	8:eR:249:TYR:CG	2.13	0.75
7:NB:25:GLN:HG2	21:MP:147:LYS:HB2	1.66	0.75
7:LC:7:ARG:CD	18:MC:258:THR:HG22	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LC:10:VAL:HG21	18:MC:258:THR:HG21	1.68	0.75
18:MC:242:LYS:CB	29:SF:202:PEB:O1B	2.34	0.75
18:MC:305:ALA:O	18:MC:307:PRO:HD3	1.87	0.75
6:BD:113:ALA:O	6:BD:115:GLU:N	2.20	0.75
6:AE:24:LEU:HD13	7:BE:38:LEU:HB3	1.68	0.75
18:ME:268:VAL:HG12	7:PI:148:GLU:HA	0.75	0.75
18:ME:304:TRP:HE1	6:gL:87:ASP:CG	1.94	0.75
5:HI:39:ASP:OD1	29:HI:1002:PEB:CMD	2.35	0.75
6:AJ:138:LEU:CD1	6:AJ:144:MET:HE3	2.16	0.75
6:CL:73:GLY:HA2	6:CL:78:LYS:HB3	1.68	0.75
6:KO:53:LYS:NZ	6:KO:83:TYR:CE1	2.51	0.75
20:JP:100:ASP:OD2	20:JP:102:THR:OG1	2.04	0.75
20:eP:100:ASP:OD2	20:eP:102:THR:OG1	2.04	0.75
20:iP:100:ASP:OD2	20:iP:102:THR:OG1	2.04	0.75
20:vP:100:ASP:OD2	20:vP:102:THR:OG1	2.04	0.75
7:P1:97:LEU:CD1	7:P1:165:VAL:CG2	2.62	0.75
7:a1:97:LEU:CD1	7:a1:165:VAL:CG2	2.62	0.75
7:i1:97:LEU:CD1	7:i1:165:VAL:CG2	2.62	0.75
7:k1:97:LEU:CD1	7:k1:165:VAL:CG2	2.62	0.75
6:S2:49:GLU:O	6:S2:53:LYS:HG3	1.87	0.75
6:H4:139:CYS:HB2	6:H4:142:ARG:HG2	1.68	0.75
7:K4:66:LEU:HB3	7:K4:73:CYS:HB2	1.68	0.75
5:J9:170:SER:HB2	26:ZP:47:GLN:NE2	2.02	0.75
29:W9:202:PEB:HMA1	8:eR:249:TYR:HB3	1.66	0.75
7:NB:85:ASP:OD2	29:NB:201:PEB:HHC1	1.85	0.75
7:GD:50:CYS:HB3	29:GD:203:PEB:HMA1	1.66	0.75
7:GD:165:VAL:HA	7:GD:168:TYR:HD2	1.50	0.75
7:KD:21:GLY:HA2	7:KD:24:LEU:HD12	1.67	0.75
7:KD:66:LEU:HB3	7:KD:73:CYS:HB2	1.68	0.75
7:aF:147:THR:OG1	7:aF:148:GLU:OE1	2.04	0.75
5:FI:75:THR:HG22	5:FI:76:SER:H	1.50	0.75
6:CJ:73:GLY:HA2	6:CJ:78:LYS:HB3	1.68	0.75
5:DK:39:ASP:OD1	5:DK:39:ASP:N	2.15	0.75
4:GK:33:ARG:HG3	4:IK:25:GLN:HG2	1.68	0.75
7:NL:114:LYS:HG2	7:NL:176:ILE:CA	2.17	0.75
24:zP:57:ILE:HG21	24:zP:103:ALA:HB2	1.69	0.75
6:UR:138:LEU:HD12	6:UR:138:LEU:O	1.85	0.75
3:B1:17:VAL:HB	5:N1:84:ARG:NH2	2.02	0.75
8:e2:84:LYS:HG3	8:e2:85:PRO:HD2	1.68	0.75
6:K3:53:LYS:NZ	6:K3:83:TYR:CE1	2.51	0.75
6:F4:21:ASN:N	6:F4:21:ASN:OD1	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I4:165:VAL:HA	7:I4:168:TYR:HD2	1.50	0.75
7:K4:87:GLU:OE1	7:K4:87:GLU:N	2.19	0.75
6:Q9:76:GLN:NE2	4:EK:53:THR:HB	2.02	0.75
15:bB:90:TYR:C	7:NB:84:ARG:HH12	1.93	0.75
7:RB:58:GLY:O	7:RB:61:CYS:SG	2.43	0.75
6:BD:24:LEU:HD13	7:CD:38:LEU:HD22	1.68	0.75
7:HE:16:ALA:HB2	7:LE:69:PRO:HG2	1.69	0.75
6:EG:98:VAL:HG11	7:FG:19:VAL:HG21	1.69	0.75
13:kH:232:PHE:CG	6:OR:69:PRO:HG2	2.21	0.75
31:KI:1001:CYC:O1D	5:NI:57:ARG:NH1	2.17	0.75
6:WK:55:ALA:HB2	6:WK:134:THR:HG23	1.68	0.75
6:hK:33:ARG:NE	6:hK:151:GLU:OE2	2.19	0.75
6:AL:147:GLN:HE22	29:AL:203:PEB:C3C	1.97	0.75
6:KL:72:ALA:O	6:KL:78:LYS:CE	2.35	0.75
6:ML:33:ARG:HD3	6:ML:151:GLU:OE2	1.87	0.75
7:IL:38:LEU:HD13	6:mL:33:ARG:HH22	1.50	0.75
6:KM:48:HIS:NE2	6:KM:49:GLU:OE2	2.19	0.75
7:Nm:170:ASP:CB	28:4P:184:THR:HG23	2.15	0.75
6:EN:91:ARG:HD3	7:FN:18:TYR:CZ	2.22	0.75
6:KO:53:LYS:HE2	6:KO:53:LYS:CA	2.16	0.75
20:cP:100:ASP:OD2	20:cP:102:THR:OG1	2.04	0.75
7:LQ:57:SER:HA	7:LQ:60:ILE:CG2	2.17	0.75
8:eR:85:PRO:HB3	7:NR:107:ASP:CA	2.17	0.75
6:OI:5:ILE:CD1	7:P1:3:ASP:OD2	2.34	0.75
6:W2:97:LEU:HD21	6:W2:155:TYR:HD2	1.49	0.75
6:B4:118:ARG:HH12	6:L4:114:ARG:CB	1.97	0.75
12:E8:162:ASN:O	29:kF:203:PEB:CHB	2.34	0.75
6:EA:91:ARG:HD3	7:FA:18:TYR:CZ	2.22	0.75
7:NB:170:ASP:HB3	28:bP:183:GLY:O	1.87	0.75
6:HD:139:CYS:HB2	6:HD:142:ARG:HG2	1.68	0.75
18:ME:255:LYS:O	18:ME:256:THR:CB	2.34	0.75
4:GF:22:THR:HG21	4:IF:7:GLU:HG3	1.69	0.75
7:mF:147:THR:OG1	7:mF:148:GLU:OE1	2.04	0.75
3:BI:227:GLU:CB	20:vP:56:GLN:CD	2.59	0.75
6:QI:33:ARG:HD2	6:QI:33:ARG:N	2.01	0.75
7:YI:147:THR:OG1	7:YI:148:GLU:OE1	2.04	0.75
7:PJ:5:PHE:HE2	7:PJ:31:ILE:HD11	1.51	0.75
6:iJ:73:GLY:HA2	6:iJ:78:LYS:CG	2.16	0.75
16:wJ:86:CYS:CB	30:wJ:305:PUB:HAA2	2.15	0.75
5:LK:36:GLN:NE2	29:LK:1002:PEB:HMB1	2.01	0.75
7:mK:97:LEU:CD1	7:mK:165:VAL:CG2	2.62	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:138:LEU:CD1	6:AL:144:MET:HE3	2.16	0.75
6:aL:44:LEU:HD12	6:aL:44:LEU:O	1.87	0.75
6:iL:73:GLY:HA2	6:iL:78:LYS:CG	2.16	0.75
6:EQ:98:VAL:HG11	7:FQ:19:VAL:HG21	1.69	0.75
8:eR:77:PHE:CG	8:eR:84:LYS:NZ	2.53	0.75
29:eR:401:PEB:HHB1	29:eR:401:PEB:CBC	2.17	0.75
5:J1:18:PHE:HD1	15:bB:335:ILE:HD13	1.45	0.75
8:e2:92:MET:CE	8:e2:128:ARG:NH1	2.48	0.75
6:U2:139:CYS:HB2	29:U2:202:PEB:HBA3	1.56	0.75
10:d4:141:MET:HE1	10:d4:149:PRO:HA	1.68	0.75
7:E4:87:GLU:OE1	7:E4:87:GLU:N	2.19	0.75
6:F4:113:ALA:O	6:F4:115:GLU:N	2.20	0.75
7:A8:18:TYR:CD1	11:D8:213:GLU:OE2	2.40	0.75
6:KB:48:HIS:NE2	6:KB:49:GLU:OE2	2.19	0.75
6:BD:42:GLU:N	6:BD:42:GLU:OE1	2.20	0.75
7:ED:165:VAL:HA	7:ED:168:TYR:HD2	1.50	0.75
18:ME:217:SER:CA	18:ME:223:ARG:HG2	2.15	0.75
5:DF:39:ASP:OD1	29:DF:1002:PEB:CMD	2.35	0.75
5:LF:39:ASP:OD1	29:LF:1002:PEB:CMD	2.35	0.75
3:BI:206:PHE:N	20:PP:76:GLU:OE2	2.20	0.75
7:HJ:5:PHE:CZ	7:HJ:31:ILE:CD1	2.70	0.75
6:KJ:72:ALA:O	6:KJ:78:LYS:CE	2.35	0.75
3:BK:205:ARG:NE	3:BK:205:ARG:HA	2.02	0.75
7:PL:5:PHE:CE2	7:PL:31:ILE:HD11	2.22	0.75
15:bM:335:ILE:HG13	15:bM:337:PRO:HD2	1.68	0.75
15:bM:341:ALA:CB	20:mP:68:PRO:CD	2.65	0.75
6:IM:57:ASP:OD1	6:IM:58:ALA:N	2.19	0.75
22:VP:144:GLU:OE1	22:VP:144:GLU:N	2.14	0.75
6:CQ:11:ALA:HA	14:MQ:141:TYR:CD2	2.18	0.75
6:MR:33:ARG:NE	6:MR:151:GLU:OE2	2.20	0.75
6:QR:145:SER:O	6:QR:147:GLN:N	2.19	0.75
6:Q2:137:ARG:NH2	29:Q2:202:PEB:CGB	2.50	0.74
6:B4:42:GLU:OE1	6:B4:42:GLU:N	2.20	0.74
7:E4:66:LEU:HB3	7:E4:73:CYS:HB2	1.68	0.74
7:K5:1:MET:HE3	7:K5:104:VAL:HG21	1.68	0.74
7:A5:18:TYR:CD1	11:D5:213:GLU:OE2	2.40	0.74
6:U9:67:LYS:CE	13:kH:259:SER:HA	2.16	0.74
7:HG:108:ARG:CZ	14:MG:302:ASN:HD22	2.00	0.74
5:JI:39:ASP:OD1	29:JI:1002:PEB:CMD	2.35	0.74
5:JI:65:GLN:HG3	20:PP:68:PRO:N	2.01	0.74
6:aJ:44:LEU:HD12	6:aJ:44:LEU:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wJ:44:PHE:O	16:wJ:45:SER:HB3	1.85	0.74
6:SK:49:GLU:O	6:SK:53:LYS:HG3	1.87	0.74
7:FL:35:ASN:HD22	29:FL:202:PEB:CGC	1.99	0.74
29:LL:201:PEB:CBD	19:zL:217:ALA:O	2.35	0.74
19:zL:331:PRO:CB	20:NP:68:PRO:HD3	2.17	0.74
21:qP:75:THR:OG1	22:xP:110:ILE:O	2.02	0.74
21:wP:106:GLU:HG2	25:1P:875:ILE:HG13	1.67	0.74
7:HQ:141:PHE:CE2	29:HQ:203:PEB:C4A	2.69	0.74
8:eR:84:LYS:HG3	8:eR:85:PRO:HD2	1.68	0.74
4:E1:142:LEU:CD1	4:E1:146:VAL:HG12	2.16	0.74
7:V1:163:SER:HB2	14:MA:101:LEU:HD12	1.67	0.74
29:e2:401:PEB:CAA	7:P2:82:CYS:SG	2.75	0.74
10:d4:297:MET:HE1	10:d4:307:TYR:CZ	2.22	0.74
11:D5:260:THR:CG2	7:TK:150:LYS:N	2.50	0.74
6:KA:30:ASN:O	6:KA:34:SER:HB3	1.88	0.74
7:HC:16:ALA:HB2	7:LC:69:PRO:HG2	1.69	0.74
18:MC:232:MET:CE	6:SF:142:ARG:NH2	2.50	0.74
6:DD:42:GLU:N	6:DD:42:GLU:OE1	2.20	0.74
6:HD:36:ALA:O	6:HD:39:GLU:HG2	1.87	0.74
6:JD:42:GLU:N	6:JD:42:GLU:OE1	2.20	0.74
6:JD:54:GLU:CD	6:JD:137:ARG:HH11	1.94	0.74
6:LD:42:GLU:OE1	6:LD:42:GLU:N	2.20	0.74
18:ME:215:THR:C	18:ME:217:SER:N	2.44	0.74
5:JF:39:ASP:OD1	29:JF:1002:PEB:CMD	2.35	0.74
7:iI:147:THR:OG1	7:iI:148:GLU:OE1	2.04	0.74
6:UJ:63:TYR:O	6:UJ:66:LEU:HD12	1.88	0.74
5:HK:145:THR:CG2	29:HK:1002:PEB:OA	2.34	0.74
6:bK:49:GLU:O	6:bK:53:LYS:HG3	1.88	0.74
6:fK:49:GLU:O	6:fK:53:LYS:HG3	1.87	0.74
19:zL:340:PHE:CD1	20:gP:67:SER:OG	2.38	0.74
6:lM:67:LYS:HD3	6:OR:144:MET:O	1.86	0.74
20:CP:100:ASP:OD2	20:CP:102:THR:OG1	2.04	0.74
20:mP:94:TYR:OH	21:qP:17:LYS:O	2.02	0.74
6:CQ:108:TRP:HA	7:HQ:75:THR:HG23	1.69	0.74
6:WR:142:ARG:HG2	29:WR:202:PEB:CBA	2.17	0.74
4:E1:49:GLN:C	6:Q7:53:LYS:NZ	2.43	0.74
4:I1:18:PHE:HB3	5:J1:45:THR:HG23	1.67	0.74
6:U2:114:ARG:HG2	6:U2:114:ARG:HH21	1.53	0.74
7:K5:1:MET:CA	7:K5:104:VAL:HG22	2.18	0.74
5:F7:22:THR:HA	5:F7:25:ASP:CG	2.10	0.74
5:L7:30:MET:HE1	27:aP:237:ALA:HB1	0.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:67:ILE:O	7:A8:74:TYR:HD1	1.70	0.74
15:bB:374:THR:HG21	21:MP:63:SER:HB2	1.68	0.74
6:JD:139:CYS:HB2	6:JD:142:ARG:HG2	1.68	0.74
7:RF:147:THR:OG1	7:RF:148:GLU:OE1	2.04	0.74
7:LG:136:ALA:C	29:LG:203:PEB:O1C	2.31	0.74
13:kH:118:ARG:C	13:kH:120:ILE:HD12	2.10	0.74
5:JK:33:GLU:HB2	5:JK:36:GLN:HB2	1.69	0.74
6:ML:147:GLN:OE1	29:PL:202:PEB:C3C	2.34	0.74
20:pP:100:ASP:OD2	20:pP:102:THR:OG1	2.04	0.74
7:VR:84:ARG:O	7:VR:87:GLU:CG	2.35	0.74
5:F1:39:ASP:OD1	5:F1:39:ASP:N	2.19	0.74
6:S1:49:GLU:O	6:S1:53:LYS:HG3	1.87	0.74
6:W2:65:TYR:CD1	6:W2:66:LEU:HD12	2.22	0.74
6:I3:140:VAL:HG13	6:I3:146:ALA:CA	2.02	0.74
10:d4:288:ARG:NH2	7:TF:62:GLU:HG2	2.02	0.74
10:d4:331:GLN:CB	10:dD:331:GLN:NE2	2.50	0.74
6:B4:113:ALA:O	6:B4:115:GLU:N	2.20	0.74
7:A5:67:ILE:O	7:A5:74:TYR:HD1	1.71	0.74
7:A8:161:LEU:HD11	29:A8:202:PEB:HBA1	1.69	0.74
3:B9:22:VAL:HG23	3:B9:23:ASN:HD22	1.53	0.74
15:bB:341:ALA:HB2	20:KP:68:PRO:CG	2.08	0.74
6:IB:54:GLU:CG	29:IB:202:PEB:HAC1	2.14	0.74
7:XB:62:GLU:OE2	7:XB:129:ARG:NE	2.14	0.74
6:LD:113:ALA:O	6:LD:115:GLU:N	2.19	0.74
18:ME:285:TYR:C	5:DI:18:PHE:HD2	1.95	0.74
7:FG:61:CYS:CB	29:FG:203:PEB:CB D	2.53	0.74
6:IG:2:LYS:NZ	14:MG:254:VAL:H	1.84	0.74
3:BI:221:PHE:CD1	27:aP:81:LEU:HD22	2.23	0.74
6:IJ:72:ALA:CB	29:IJ:201:PEB:HMA2	2.16	0.74
7:PJ:5:PHE:CE2	7:PJ:31:ILE:HD11	2.22	0.74
7:tJ:111:ASN:O	16:xJ:224:SER:HB2	1.88	0.74
7:VK:97:LEU:CD1	7:VK:165:VAL:CG2	2.62	0.74
6:kL:17:ARG:NH1	6:mL:158:TYR:OH	2.15	0.74
6:KM:135:ARG:CD	6:KM:157:ASP:OD1	2.35	0.74
7:cM:62:GLU:OE2	7:cM:129:ARG:NE	2.14	0.74
7:FQ:141:PHE:CE2	29:FQ:203:PEB:HMB3	2.22	0.74
6:MR:17:ARG:NH2	6:OR:2:LYS:NZ	2.28	0.74
6:QR:137:ARG:HG3	29:QR:202:PEB:CHC	2.15	0.74
5:J1:17:GLU:CB	15:bB:340:GLU:CD	2.55	0.74
6:U2:137:ARG:NH2	29:U2:202:PEB:O1B	2.20	0.74
7:N3:70:GLY:O	7:VL:154:ALA:CB	2.33	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:338:GLU:CG	10:dD:327:SER:OG	2.36	0.74
6:D4:113:ALA:O	6:D4:115:GLU:N	2.20	0.74
6:D4:139:CYS:HB2	6:D4:142:ARG:HG2	1.68	0.74
7:E4:59:MET:CE	7:E4:130:ALA:N	2.40	0.74
7:I5:158:CYS:CB	29:I5:202:PEB:CAA	2.55	0.74
29:I5:201:PEB:CMC	15:bB:403:PRO:HG2	2.17	0.74
5:F9:18:PHE:CE1	8:eR:300:VAL:HG12	2.21	0.74
5:F9:22:THR:HA	5:F9:25:ASP:CG	2.10	0.74
5:J9:107:ASP:OD1	26:ZP:55:PRO:CG	2.34	0.74
18:MC:128:TYR:CE1	18:MC:149:VAL:HG11	2.22	0.74
6:DD:139:CYS:HB2	6:DD:142:ARG:HG2	1.68	0.74
7:ED:39:ASP:OD1	29:ED:201:PEB:H1D1	1.88	0.74
7:GD:87:GLU:OE1	7:GD:87:GLU:N	2.19	0.74
7:LE:116:THR:CG2	18:ME:213:THR:HB	2.17	0.74
5:LI:39:ASP:OD1	29:LI:1002:PEB:CMD	2.35	0.74
6:YJ:33:ARG:HG2	6:YJ:33:ARG:NH2	2.01	0.74
6:gJ:33:ARG:HE	6:iJ:25:GLU:HA	1.52	0.74
6:hK:49:GLU:O	6:hK:53:LYS:HG3	1.88	0.74
6:UL:66:LEU:HD23	6:UL:72:ALA:HB1	1.69	0.74
16:wL:44:PHE:O	16:wL:45:SER:HB3	1.85	0.74
15:bM:343:PHE:CE1	20:mP:64:ASP:HB3	2.22	0.74
20:GP:100:ASP:OD2	20:GP:102:THR:OG1	2.04	0.74
21:oP:128:GLN:HA	21:oP:128:GLN:NE2	2.02	0.74
6:QR:2:LYS:HZ1	6:SR:17:ARG:HH21	1.34	0.74
6:SR:49:GLU:O	6:SR:53:LYS:HG3	1.87	0.74
3:B1:227:GLU:CG	20:AP:52:LYS:HE2	2.16	0.74
4:G1:40:ALA:HB2	4:G1:146:VAL:HG13	1.70	0.74
7:R1:97:LEU:HD13	7:R1:165:VAL:HG23	1.70	0.74
6:A3:49:GLU:O	6:A3:53:LYS:HG3	1.87	0.74
6:J4:42:GLU:N	6:J4:42:GLU:OE1	2.20	0.74
6:J4:139:CYS:HB2	6:J4:142:ARG:HG2	1.68	0.74
3:B9:205:ARG:NH1	21:sP:62:TYR:HB2	2.01	0.74
4:E9:89:GLY:C	8:eR:297:GLY:HA3	2.11	0.74
29:JA:201:PEB:HBC2	14:MA:162:LEU:HD23	1.69	0.74
6:FD:139:CYS:HB2	6:FD:142:ARG:HG2	1.68	0.74
18:ME:300:VAL:HG12	6:gL:49:GLU:CB	2.15	0.74
18:ME:305:ALA:O	18:ME:307:PRO:HD3	1.87	0.74
6:OF:6:THR:HG23	7:PF:1:MET:HE3	1.69	0.74
5:FI:39:ASP:OD1	29:FI:1002:PEB:CMD	2.35	0.74
29:LJ:201:PEB:CBD	19:zJ:217:ALA:O	2.35	0.74
6:UJ:66:LEU:HD23	6:UJ:72:ALA:HB1	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:sJ:6:THR:O	16:xJ:81:VAL:HG12	1.87	0.74
4:EK:142:LEU:CD1	4:EK:146:VAL:HG12	2.16	0.74
7:HL:133:ILE:O	7:HL:135:LYS:N	2.20	0.74
6:GM:157:ASP:OD2	7:JM:46:SER:HB3	1.88	0.74
6:AO:69:PRO:HG2	27:3P:158:GLY:HA3	1.68	0.74
21:FP:60:LEU:CD1	21:FP:72:MET:CE	2.66	0.74
5:N1:19:LEU:HD13	5:N1:23:GLN:CD	2.11	0.74
6:j1:49:GLU:O	6:j1:53:LYS:HG3	1.88	0.74
6:M2:33:ARG:NE	6:M2:151:GLU:OE2	2.21	0.74
10:d4:283:ARG:HG3	7:TF:147:THR:CG2	2.17	0.74
7:C4:66:LEU:HB3	7:C4:73:CYS:HB2	1.68	0.74
7:G4:21:GLY:HA2	7:G4:24:LEU:HD12	1.67	0.74
7:G4:147:THR:CG2	29:G4:203:PEB:O1B	2.35	0.74
7:M4:87:GLU:O	7:M4:91:ARG:HG3	1.88	0.74
5:J7:74:TYR:HH	4:M7:93:ARG:NH2	1.84	0.74
4:K7:49:GLN:CG	3:BF:228:MET:CG	1.99	0.74
5:L9:63:GLN:NE2	27:3P:284:VAL:HG23	2.02	0.74
15:bB:349:LYS:HG3	20:KP:68:PRO:HB2	1.68	0.74
18:MC:45:PHE:CE2	18:MC:253:ALA:HB1	2.23	0.74
18:MC:217:SER:CA	18:MC:223:ARG:HG2	2.15	0.74
18:MC:221:ALA:CB	18:MC:222:PRO:HD3	2.17	0.74
6:EE:33:ARG:O	6:EE:36:ALA:N	2.16	0.74
3:BI:222:LEU:CD2	27:aP:63:ARG:CG	2.63	0.74
4:KK:19:LEU:HD13	5:LK:98:ILE:CD1	2.17	0.74
5:LK:68:GLN:CG	15:bM:342:TYR:CD2	2.70	0.74
7:NL:114:LYS:HE3	7:NL:177:SER:N	2.03	0.74
29:nL:201:PEB:HBC2	16:xL:103:LEU:HD13	1.68	0.74
19:zL:363:ARG:CD	21:LP:62:TYR:CA	2.61	0.74
7:BN:15:LYS:O	7:BN:15:LYS:HD3	1.88	0.74
24:XP:57:ILE:HG21	24:XP:103:ALA:HB2	1.69	0.74
6:f1:49:GLU:O	6:f1:53:LYS:HG3	1.87	0.74
10:d4:133:PRO:CB	29:E4:201:PEB:OD	2.36	0.74
13:k6:261:MET:HE3	6:U7:83:TYR:CD2	2.21	0.74
7:I8:27:LEU:HB3	19:zJ:294:GLY:C	2.12	0.74
7:I8:157:ASP:OD2	7:I8:159:THR:HG22	1.88	0.74
5:F9:17:GLU:CD	8:eR:301:PHE:CZ	2.66	0.74
5:L9:74:TYR:O	5:L9:78:ARG:HB2	1.87	0.74
18:MC:144:ARG:HD3	18:MC:144:ARG:N	1.90	0.74
18:MC:300:VAL:O	6:gJ:49:GLU:CB	2.35	0.74
7:GD:76:ASN:ND2	6:JD:113:ALA:CA	2.42	0.74
6:HD:137:ARG:NH1	29:HD:202:PEB:NB	2.24	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CG:108:TRP:HA	7:HG:75:THR:HG23	1.69	0.74
4:IK:142:LEU:C	4:IK:147:ALA:HB2	2.11	0.74
5:JK:20:SER:N	5:JK:23:GLN:HE21	1.85	0.74
7:HL:5:PHE:CZ	7:HL:31:ILE:CD1	2.70	0.74
6:SL:136:ASP:OD1	6:SL:136:ASP:O	2.06	0.74
6:WL:74:GLU:N	6:WL:78:LYS:HG3	2.00	0.74
14:MN:103:ARG:HD2	14:MN:103:ARG:N	2.01	0.74
6:AO:49:GLU:O	6:AO:53:LYS:HG3	1.87	0.74
6:KQ:118:ARG:NH2	14:MQ:151:LYS:HZ3	1.86	0.74
6:SR:140:VAL:N	6:SR:141:PRO:HD2	2.02	0.74
4:C1:11:THR:HG21	4:M1:7:GLU:HG2	1.68	0.74
5:L1:41:VAL:CG1	5:L1:98:ILE:HD11	2.10	0.74
7:C4:58:GLY:HA3	29:C4:203:PEB:CMD	2.17	0.74
7:A5:161:LEU:HD11	29:A5:202:PEB:HBA1	1.69	0.74
4:EF:33:ARG:HH12	29:LF:1002:PEB:CAD	1.95	0.74
5:DI:39:ASP:OD1	29:DI:1002:PEB:CMD	2.35	0.74
7:eI:147:THR:OG1	7:eI:148:GLU:OE1	2.04	0.74
7:FJ:35:ASN:HD22	29:FJ:202:PEB:CGC	1.99	0.74
7:HJ:133:ILE:O	7:HJ:135:LYS:N	2.20	0.74
7:LJ:26:ALA:HB1	28:4P:228:ILE:HG23	1.66	0.74
6:cJ:72:ALA:C	29:cJ:201:PEB:HMA2	2.13	0.74
4:IK:40:ALA:HB2	4:IK:146:VAL:HG13	1.70	0.74
7:HL:72:MEN:CB	29:zL:501:PEB:OA	2.36	0.74
7:LL:26:ALA:CB	28:bP:228:ILE:HG23	2.17	0.74
16:xL:255:GLN:OE1	29:xL:302:PEB:CMD	2.34	0.74
7:ZM:35:ASN:OD1	29:ZM:202:PEB:C3C	2.36	0.74
25:YP:344:ARG:HB2	25:YP:413:LEU:HD21	1.70	0.74
21:nP:24:VAL:HG13	22:xP:37:ILE:CG1	2.16	0.74
5:J1:20:SER:N	5:J1:23:GLN:HE21	1.85	0.74
5:J1:47:ASN:ND2	5:J1:141:LEU:HD21	2.03	0.74
6:S1:32:GLN:HG3	6:U1:32:GLN:HG3	1.69	0.74
8:e2:111:GLU:OE2	6:W2:114:ARG:CD	2.35	0.74
29:e2:401:PEB:HHB1	29:e2:401:PEB:CBC	2.17	0.74
6:O2:33:ARG:NE	6:O2:151:GLU:OE2	2.20	0.74
6:K3:53:LYS:HE2	6:K3:53:LYS:CA	2.16	0.74
7:C4:58:GLY:CA	29:C4:203:PEB:CMD	2.66	0.74
6:J4:9:VAL:CG1	7:K4:95:TYR:HD1	1.99	0.74
7:L5:108:ARG:HH21	4:I7:64:PRO:HG2	1.52	0.74
3:B7:172:LYS:HB2	26:2P:86:PRO:CD	2.16	0.74
7:JA:87:GLU:OE2	14:MA:264:VAL:CG2	2.35	0.74
18:MC:255:LYS:O	18:MC:256:THR:HG23	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ID:132:SER:O	7:ID:135:LYS:HB3	1.88	0.74
18:ME:312:LEU:CD2	7:vL:69:PRO:HD3	1.93	0.74
5:JI:165:ASP:OD2	27:aP:71:VAL:O	2.05	0.74
7:mI:147:THR:OG1	7:mI:148:GLU:OE1	2.04	0.74
7:LJ:26:ALA:C	28:4P:231:ILE:CD1	2.53	0.74
7:NJ:114:LYS:HG2	7:NJ:176:ILE:CA	2.17	0.74
7:IJ:116:THR:HG23	16:xJ:177:MET:CE	2.18	0.74
7:PL:5:PHE:HE2	7:PL:31:ILE:HD11	1.51	0.74
7:eM:63:ASN:C	7:eM:65:GLY:H	1.95	0.74
21:SP:6:THR:HG23	27:3P:38:TYR:CZ	2.23	0.74
21:UP:106:GLU:HG2	25:YP:875:ILE:HG13	1.68	0.74
21:jP:17:LYS:O	25:1P:161:TYR:OH	2.05	0.74
7:VR:38:LEU:HD13	29:VR:202:PEB:C4D	2.18	0.74
6:WR:65:TYR:CD1	6:WR:66:LEU:HD12	2.22	0.74
6:WR:65:TYR:CD2	6:WR:66:LEU:HD12	2.23	0.74
6:WR:140:VAL:CG1	6:WR:145:SER:O	2.36	0.74
3:B1:203:ILE:CG2	20:JP:82:LEU:HD11	2.17	0.73
5:L1:36:GLN:NE2	29:L1:1002:PEB:HMB1	2.01	0.73
5:N1:47:ASN:ND2	5:N1:141:LEU:HD21	2.03	0.73
7:Y1:97:LEU:CD1	7:Y1:165:VAL:CG2	2.62	0.73
7:D3:39:ASP:HA	29:D3:202:PEB:CMD	2.16	0.73
6:D4:42:GLU:OE1	6:D4:42:GLU:N	2.20	0.73
6:F4:42:GLU:OE1	6:F4:42:GLU:N	2.20	0.73
7:G4:75:THR:CA	29:J4:201:PEB:CAD	2.56	0.73
11:D5:219:TYR:CE2	5:HK:152:ASP:HB2	2.22	0.73
7:I8:45:VAL:O	28:4P:120:PRO:CG	2.31	0.73
5:L9:18:PHE:CZ	20:vP:68:PRO:HD2	2.16	0.73
7:DA:75:THR:OG1	6:KA:108:TRP:O	2.05	0.73
7:eB:63:ASN:C	7:eB:65:GLY:H	1.95	0.73
18:MC:232:MET:SD	6:SF:142:ARG:NH2	2.60	0.73
10:dD:141:MET:HE1	10:dD:149:PRO:HA	1.68	0.73
18:ME:312:LEU:HD12	18:ME:313:THR:CG2	2.18	0.73
5:FF:39:ASP:OD1	29:FF:1002:PEB:CMD	2.35	0.73
7:LG:137:GLN:OE1	29:LG:203:PEB:NB	2.21	0.73
7:cI:1:MET:HE1	7:cI:107:ASP:OD1	1.88	0.73
6:GJ:73:GLY:HA2	6:GJ:78:LYS:HB3	1.68	0.73
4:CK:3:THR:HB	4:CK:4:PRO:HD2	1.70	0.73
4:CK:113:ALA:HB1	5:FK:77:ARG:HB2	1.70	0.73
7:YK:97:LEU:CD1	7:YK:165:VAL:CG2	2.62	0.73
20:EP:14:GLU:HG3	25:YP:509:PHE:CZ	2.22	0.73
28:bP:40:ARG:NH1	28:bP:41:THR:HG23	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HQ:47:ASN:CB	29:HQ:203:PEB:HMA1	2.18	0.73
6:OR:33:ARG:NE	6:OR:151:GLU:OE2	2.20	0.73
4:C1:3:THR:HB	4:C1:4:PRO:HD2	1.69	0.73
4:K1:40:ALA:HB2	4:K1:146:VAL:HG13	1.70	0.73
6:b1:49:GLU:O	6:b1:53:LYS:HG3	1.88	0.73
8:e2:125:ARG:HB2	29:V2:201:PEB:O1C	1.86	0.73
29:I4:203:PEB:HMC2	29:I4:203:PEB:C4D	2.18	0.73
6:L4:42:GLU:N	6:L4:42:GLU:OE1	2.20	0.73
7:I8:4:ALA:HB2	7:I8:98:LEU:CD2	2.16	0.73
18:MC:255:LYS:O	18:MC:256:THR:CB	2.34	0.73
6:FD:32:GLN:H	6:FD:32:GLN:CD	1.95	0.73
7:MD:66:LEU:HB3	7:MD:73:CYS:HB2	1.68	0.73
18:ME:144:ARG:N	18:ME:144:ARG:HD2	2.03	0.73
5:JF:135:LYS:HZ2	27:3P:67:GLY:C	1.97	0.73
6:KG:31:ILE:HG12	7:LG:31:ILE:HG13	1.70	0.73
5:DI:75:THR:HG22	5:DI:76:SER:H	1.50	0.73
4:GI:104:THR:CG2	4:GI:108:ASP:OD1	2.31	0.73
6:WJ:72:ALA:CB	29:WJ:202:PEB:HMA2	2.13	0.73
7:ZJ:16:ALA:HB2	7:hJ:69:PRO:HG2	1.69	0.73
19:zJ:363:ARG:NH1	21:nP:61:LEU:O	2.07	0.73
6:jK:49:GLU:O	6:jK:53:LYS:HG3	1.88	0.73
6:gL:33:ARG:HE	6:iL:25:GLU:HA	1.52	0.73
16:wL:183:LYS:CE	16:xL:41:ASN:ND2	2.51	0.73
7:NM:22:SER:O	21:oP:147:LYS:CG	2.35	0.73
6:lM:67:LYS:HE2	6:OR:141:PRO:O	1.87	0.73
6:KN:30:ASN:O	6:KN:34:SER:HB3	1.88	0.73
7:DO:39:ASP:CG	29:DO:202:PEB:CMD	2.61	0.73
7:T1:150:LYS:N	11:D8:260:THR:CG2	2.50	0.73
6:W1:49:GLU:CA	6:W1:53:LYS:NZ	2.50	0.73
7:X2:108:ARG:NH1	7:X2:108:ARG:HG3	2.01	0.73
10:d4:327:SER:OG	10:dD:338:GLU:CB	2.35	0.73
7:I5:14:ALA:HA	21:LP:124:GLY:H	1.49	0.73
7:I5:14:ALA:HB1	21:LP:123:ILE:H	1.51	0.73
5:F7:32:LYS:HD3	5:F7:32:LYS:O	1.88	0.73
5:N9:159:GLU:HB2	26:ZP:101:VAL:HG11	1.69	0.73
6:UB:67:LYS:CD	14:MG:97:PHE:CE1	2.67	0.73
7:ZB:35:ASN:OD1	29:ZB:202:PEB:C3C	2.36	0.73
18:MC:284:LEU:CD1	5:DF:18:PHE:CE2	2.71	0.73
6:HD:137:ARG:HH11	29:HD:202:PEB:C1C	2.00	0.73
4:GF:116:GLU:OE1	4:MF:120:ARG:NH1	2.21	0.73
7:PJ:33:ASP:OD1	7:PJ:36:LYS:HE3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:jJ:115:GLU:CD	16:wJ:56:THR:HG1	1.89	0.73
6:UL:63:TYR:O	6:UL:66:LEU:HD12	1.88	0.73
6:WL:72:ALA:C	29:WL:202:PEB:OA	2.32	0.73
6:oL:91:ARG:CZ	7:pL:16:ALA:HA	2.18	0.73
6:UM:142:ARG:HH11	14:MQ:111:ARG:HH22	1.35	0.73
6:QR:139:CYS:HG	29:QR:202:PEB:CBA	1.98	0.73
6:M2:137:ARG:NH2	29:M2:202:PEB:CHB	2.51	0.73
7:I4:132:SER:O	7:I4:135:LYS:HB3	1.88	0.73
7:I5:157:ASP:OD2	7:I5:159:THR:HG22	1.88	0.73
3:B7:174:GLU:OE2	26:2P:81:PHE:HA	1.89	0.73
4:E7:93:ARG:NH2	5:H7:74:TYR:HH	1.85	0.73
5:N9:103:SER:HB2	26:ZP:95:THR:HG21	1.70	0.73
6:KA:95:TYR:CD2	7:LA:13:ASP:OD1	2.41	0.73
14:MA:101:LEU:HD23	14:MA:101:LEU:N	2.01	0.73
15:bB:376:GLU:OE2	28:bP:41:THR:HB	1.89	0.73
6:KB:135:ARG:CD	6:KB:157:ASP:OD1	2.35	0.73
18:MC:242:LYS:CG	29:SF:202:PEB:O1B	2.36	0.73
18:MC:261:VAL:CG2	6:SF:68:ASN:HA	2.18	0.73
6:DD:21:ASN:N	6:DD:21:ASN:OD1	2.17	0.73
7:KD:148:GLU:OE2	29:KD:203:PEB:C1A	2.36	0.73
7:cF:1:MET:HE1	7:cF:107:ASP:OD1	1.88	0.73
7:mI:106:GLU:OE2	7:mI:171:ARG:HD3	1.88	0.73
7:RK:97:LEU:CD1	7:RK:165:VAL:CG2	2.62	0.73
7:eK:97:LEU:HD13	7:eK:165:VAL:HG23	1.70	0.73
6:WM:33:ARG:NH1	6:WM:147:GLN:HE21	1.84	0.73
7:DN:75:THR:OG1	6:KN:108:TRP:O	2.05	0.73
25:1P:344:ARG:HB2	25:1P:413:LEU:HD21	1.70	0.73
8:eR:75:MET:HE1	29:NR:201:PEB:HAD1	1.59	0.73
3:B1:205:ARG:NE	20:JP:52:LYS:NZ	2.37	0.73
4:G1:107:MET:O	4:G1:112:VAL:HG23	1.88	0.73
6:O2:115:GLU:CA	6:O2:118:ARG:HH21	2.01	0.73
7:A5:40:ALA:HB2	7:A5:161:LEU:CD1	2.18	0.73
12:E5:186:PRO:CG	6:bI:57:ASP:HB3	2.18	0.73
3:B7:22:VAL:HG23	3:B7:23:ASN:HD22	1.53	0.73
4:C7:68:GLN:HB3	4:GF:139:SER:CB	2.15	0.73
15:bB:274:ARG:HD3	15:bB:372:ILE:CG2	2.18	0.73
6:FD:81:LYS:O	6:FD:84:ARG:HD2	1.88	0.73
18:ME:258:THR:CG2	18:ME:259:PRO:HD3	2.18	0.73
18:ME:300:VAL:HG13	6:gL:49:GLU:CB	2.16	0.73
3:BF:228:MET:HE2	3:BF:228:MET:CA	2.13	0.73
4:GI:116:GLU:OE1	4:MI:120:ARG:NH1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CJ:75:ASN:OD1	6:CJ:78:LYS:HG2	1.89	0.73
6:iJ:73:GLY:HA2	6:iJ:78:LYS:HG3	1.71	0.73
5:JK:47:ASN:ND2	5:JK:141:LEU:HD21	2.03	0.73
6:GL:95:TYR:O	6:GL:99:VAL:HG22	1.88	0.73
6:UL:63:TYR:CB	6:UL:66:LEU:CD1	2.67	0.73
16:wL:179:ALA:CA	16:xL:37:THR:OG1	2.36	0.73
7:TM:19:VAL:HG12	7:TM:24:LEU:HD21	1.70	0.73
7:DO:39:ASP:H	29:DO:202:PEB:HMD1	1.53	0.73
26:ZP:121:VAL:O	26:ZP:125:ASP:OD2	2.06	0.73
6:AQ:2:LYS:HE2	6:AQ:2:LYS:CA	2.15	0.73
4:I1:40:ALA:HB2	4:I1:146:VAL:HG13	1.70	0.73
7:a1:97:LEU:HD13	7:a1:165:VAL:HG23	1.70	0.73
8:e2:126:TYR:HB2	29:V2:201:PEB:CAC	2.11	0.73
8:e2:287:ALA:CB	7:a7:147:THR:HG22	2.14	0.73
6:S2:91:ARG:HH11	7:T2:16:ALA:HA	1.54	0.73
10:d4:335:LEU:HD13	10:dD:331:GLN:HG3	1.51	0.73
6:B4:24:LEU:HD13	7:C4:38:LEU:HD22	1.68	0.73
7:G4:51:MET:HE3	7:G4:141:PHE:CE2	2.24	0.73
7:I5:18:TYR:CE2	21:LP:128:GLN:OE1	2.39	0.73
12:E5:71:ASP:OD2	5:HI:150:ILE:CG2	2.37	0.73
13:k6:261:MET:CG	6:U7:83:TYR:CD2	2.52	0.73
5:L7:74:TYR:O	5:L7:78:ARG:HB2	1.87	0.73
6:W9:62:LYS:HE3	8:eR:278:LEU:CD2	2.19	0.73
18:MC:232:MET:HE1	6:SF:142:ARG:NH2	2.03	0.73
10:dD:226:ARG:HH12	6:WI:46:GLY:HA3	1.53	0.73
7:GD:51:MET:HE3	7:GD:141:PHE:CE2	2.24	0.73
18:ME:301:ASN:HD22	6:gL:53:LYS:HZ3	1.34	0.73
7:FG:51:MET:N	29:FG:203:PEB:HAA2	2.03	0.73
5:JI:76:SER:OG	4:MI:113:ALA:O	2.04	0.73
6:GJ:95:TYR:O	6:GJ:99:VAL:HG22	1.88	0.73
19:zJ:363:ARG:HG2	21:nP:67:ARG:HH12	1.53	0.73
7:PK:97:LEU:HD13	7:PK:165:VAL:HG23	1.70	0.73
7:VK:159:THR:C	14:MN:103:ARG:HG3	2.14	0.73
6:IL:72:ALA:CB	29:IL:201:PEB:HMA2	2.16	0.73
7:PL:33:ASP:OD1	7:PL:36:LYS:HE3	1.88	0.73
6:iL:73:GLY:HA2	6:iL:78:LYS:HG3	1.71	0.73
19:zL:332:LEU:HD23	20:NP:63:PRO:C	2.13	0.73
7:HM:125:ASN:HD21	7:ZM:70:GLY:HA3	1.54	0.73
7:VM:85:ASP:OD1	7:VM:85:ASP:N	2.20	0.73
20:TP:100:ASP:OD2	20:TP:102:THR:OG1	2.04	0.73
26:ZP:110:LEU:HB3	26:ZP:111:PRO:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:dP:89:LEU:CG	20:eP:17:TYR:OH	2.36	0.73
21:fP:60:LEU:HD11	21:fP:72:MET:HE1	1.69	0.73
7:JQ:108:ARG:NE	14:MQ:257:THR:HG23	1.99	0.73
7:PR:84:ARG:HG2	7:PR:88:ILE:HD11	1.69	0.73
7:i1:97:LEU:HD13	7:i1:165:VAL:HG23	1.70	0.73
10:d4:283:ARG:HB2	7:TF:148:GLU:OE1	1.89	0.73
7:E4:39:ASP:OD1	29:E4:202:PEB:H1D1	1.88	0.73
7:E4:51:MET:HE3	7:E4:141:PHE:CE2	2.24	0.73
6:H4:115:GLU:O	6:H4:119:THR:HG23	1.89	0.73
29:K4:202:PEB:HBD1	6:L4:33:ARG:HH12	1.23	0.73
7:I5:27:LEU:CD2	19:zL:298:ALA:CB	2.65	0.73
7:I5:79:MET:HE2	15:bB:229:LEU:HD12	1.70	0.73
5:L7:63:GLN:HE22	27:aP:284:VAL:CG2	2.01	0.73
5:L9:30:MET:HE1	27:3P:237:ALA:HB1	0.73	0.73
7:HA:116:THR:HG21	14:MA:295:PHE:CE1	2.22	0.73
18:MC:277:ARG:HD3	5:DF:17:GLU:OE1	1.88	0.73
7:CD:66:LEU:HB3	7:CD:73:CYS:HB2	1.68	0.73
7:CD:87:GLU:OE1	7:CD:87:GLU:N	2.19	0.73
7:CD:135:LYS:NZ	7:CD:166:ALA:O	2.22	0.73
6:LD:21:ASN:OD1	6:LD:21:ASN:N	2.17	0.73
7:MD:87:GLU:O	7:MD:91:ARG:HG3	1.88	0.73
1:XF:347:TYR:HE1	31:FF:1001:CYC:HBB3	1.53	0.73
6:SJ:33:ARG:NH1	6:SJ:147:GLN:CG	1.91	0.73
6:WJ:72:ALA:C	29:WJ:202:PEB:OA	2.32	0.73
19:zJ:332:LEU:HB2	20:pP:67:SER:HG	1.54	0.73
5:LK:41:VAL:CG1	5:LK:98:ILE:HD11	2.10	0.73
6:GL:68:ASN:CB	6:GL:69:PRO:CD	2.64	0.73
29:GL:202:PEB:OA	20:gP:113:LYS:CD	2.37	0.73
6:cL:72:ALA:C	29:cL:201:PEB:HMA2	2.13	0.73
16:wL:86:CYS:HB2	30:wL:305:PUB:HBA1	1.70	0.73
8:eR:154:TYR:CZ	29:XR:201:PEB:HBC2	2.23	0.73
6:OR:115:GLU:CA	6:OR:118:ARG:HH21	2.01	0.73
6:U2:105:LEU:HD21	6:U2:159:LEU:HB3	1.71	0.73
6:W9:140:VAL:CG1	6:W9:145:SER:O	2.23	0.73
7:kB:58:GLY:O	7:kB:62:GLU:HG2	1.88	0.73
18:MC:300:VAL:CG1	6:gJ:49:GLU:HG3	2.17	0.73
6:FD:42:GLU:N	6:FD:42:GLU:OE1	2.20	0.73
6:HD:21:ASN:N	6:HD:21:ASN:OD1	2.17	0.73
7:mF:106:GLU:OE2	7:mF:171:ARG:HD3	1.88	0.73
7:JG:108:ARG:HD2	14:MG:257:THR:HG21	0.75	0.73
29:tJ:201:PEB:CAD	16:xJ:220:TYR:HE2	2.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XK:237:ALA:HB2	29:YK:201:PEB:HAC1	1.71	0.73
4:GK:107:MET:O	4:GK:112:VAL:HG23	1.88	0.73
7:TK:97:LEU:HD13	7:TK:165:VAL:HG23	1.70	0.73
6:IL:73:GLY:H	29:IL:201:PEB:HMA2	1.54	0.73
7:pL:107:ASP:HB2	16:xL:257:ASN:ND2	2.04	0.73
6:GM:135:ARG:HH12	7:JM:149:ARG:NH1	1.87	0.73
7:VM:82:CYS:CA	7:VM:85:ASP:OD1	2.37	0.73
6:KN:95:TYR:CD2	7:LN:13:ASP:OD1	2.41	0.73
21:DP:14:VAL:HG21	23:WP:169:SER:HA	1.70	0.73
21:IP:19:LEU:HD12	20:JP:97:ILE:HD12	1.69	0.73
20:RP:100:ASP:OD2	20:RP:102:THR:OG1	2.04	0.73
6:KQ:31:ILE:HG12	7:LQ:31:ILE:HG13	1.70	0.73
7:LQ:133:ILE:CG2	29:LQ:202:PEB:HBC2	2.19	0.73
8:eR:92:MET:CE	8:eR:128:ARG:NH1	2.48	0.73
6:QR:143:ASP:C	6:QR:144:MET:HG3	2.14	0.73
6:UR:17:ARG:NH2	6:WR:2:LYS:HZ1	1.83	0.73
7:Y1:46:SER:HB2	6:Z1:157:ASP:OD2	1.89	0.73
10:d4:217:SER:HG	29:I4:201:PEB:HAC1	0.68	0.73
6:B4:34:SER:HB2	6:B4:37:ARG:HH21	1.53	0.73
6:H4:54:GLU:OE2	6:H4:137:ARG:NE	2.20	0.73
7:B8:104:VAL:CG2	18:ME:266:GLY:HA3	1.87	0.73
7:K8:1:MET:CA	7:K8:104:VAL:HG22	2.18	0.73
4:K9:52:ILE:HD11	20:vP:68:PRO:HG2	1.69	0.73
15:bB:341:ALA:HB1	20:KP:68:PRO:HD2	1.70	0.73
7:TB:19:VAL:HG12	7:TB:24:LEU:HD21	1.70	0.73
7:CD:51:MET:HE3	7:CD:141:PHE:CE2	2.24	0.73
6:HD:42:GLU:N	6:HD:42:GLU:OE1	2.20	0.73
7:KD:135:LYS:NZ	7:KD:166:ALA:O	2.22	0.73
7:aF:1:MET:C	7:aF:2:LEU:HD12	2.14	0.73
7:FG:62:GLU:CD	7:FG:62:GLU:H	1.97	0.73
7:LG:116:THR:HG23	14:MG:233:ALA:CA	2.18	0.73
7:aI:107:ASP:OD1	7:aI:107:ASP:N	2.20	0.73
6:SJ:136:ASP:OD1	6:SJ:136:ASP:O	2.06	0.73
7:nJ:108:ARG:HH22	16:xJ:195:TYR:C	1.93	0.73
3:BK:225:VAL:CG1	20:cP:82:LEU:CD1	2.67	0.73
6:SL:33:ARG:HD3	6:SL:151:GLU:OE2	1.84	0.73
6:oL:28:GLN:HB2	6:qL:33:ARG:HH21	1.52	0.73
7:FN:115:GLU:CD	14:MN:111:ARG:CG	2.62	0.73
14:MQ:255:TYR:O	14:MQ:256:THR:O	2.07	0.73
8:eR:64:LEU:CD1	7:TR:77:ARG:NH1	2.51	0.73
7:PR:84:ARG:CG	7:PR:88:ILE:HD11	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G1:21:ASN:HD21	4:I1:152:ALA:HB1	1.52	0.73
5:J1:33:GLU:HB2	5:J1:36:GLN:HB2	1.69	0.73
7:Y1:97:LEU:HD13	7:Y1:165:VAL:HG23	1.70	0.73
8:e2:77:PHE:CD2	8:e2:84:LYS:NZ	2.57	0.73
6:M2:81:LYS:HE3	29:M2:201:PEB:HAB2	0.76	0.73
6:O2:138:LEU:HD23	6:O2:138:LEU:C	2.14	0.73
7:M4:135:LYS:NZ	7:M4:166:ALA:O	2.22	0.73
7:G5:149:ARG:CZ	7:k9:150:LYS:CE	2.65	0.73
7:I5:28:LYS:HD3	19:zL:291:ILE:CG1	2.18	0.73
13:k6:259:SER:HA	6:U7:67:LYS:CE	2.16	0.73
6:KA:7:THR:HA	30:MA:402:PUB:O2B	1.89	0.73
29:LG:201:PEB:CMC	14:MG:237:ILE:HG22	2.18	0.73
7:aI:1:MET:HG2	7:aI:104:VAL:HG23	0.83	0.73
7:FJ:5:PHE:HZ	7:FJ:31:ILE:HG13	1.54	0.73
29:tJ:201:PEB:HMC1	16:xJ:220:TYR:CB	2.19	0.73
16:xJ:146:PRO:HD2	16:xJ:147:LYS:N	1.99	0.73
3:BK:205:ARG:CZ	20:lP:52:LYS:CE	2.54	0.73
6:WK:49:GLU:CA	6:WK:53:LYS:NZ	2.50	0.73
29:gK:202:PEB:HMC3	6:hK:33:ARG:NH2	2.04	0.73
6:ML:147:GLN:OE1	29:PL:202:PEB:CMC	2.32	0.73
6:UM:142:ARG:HD2	14:MQ:112:LEU:HA	1.69	0.73
7:VM:82:CYS:HA	7:VM:85:ASP:OD1	1.89	0.73
6:dM:147:GLN:CD	6:dM:147:GLN:H	1.97	0.73
20:iP:114:GLU:OE1	24:zP:51:SER:HA	1.89	0.73
29:eR:401:PEB:C2A	7:PR:59:MET:HE1	2.18	0.73
6:SR:139:CYS:O	6:SR:143:ASP:HB2	1.89	0.73
6:UR:114:ARG:HG2	6:UR:114:ARG:HH21	1.53	0.73
3:B1:228:MET:HE3	20:AP:82:LEU:CD1	2.17	0.72
8:e2:108:HIS:HD2	7:P2:84:ARG:CZ	2.02	0.72
8:e2:291:ILE:HD13	7:T2:170:ASP:CA	2.16	0.72
6:H4:42:GLU:N	6:H4:42:GLU:OE1	2.20	0.72
6:L4:18:PHE:HE1	7:M4:91:ARG:HG3	1.29	0.72
12:E5:43:ALA:CB	7:a9:29:SER:OG	2.36	0.72
3:B7:172:LYS:HB3	26:2P:86:PRO:HD3	1.68	0.72
6:W7:142:ARG:NH1	29:W7:202:PEB:C4B	2.51	0.72
7:Y7:156:GLY:HA2	12:E8:120:TYR:CE2	2.24	0.72
6:l7:137:ARG:HH12	29:l7:202:PEB:C1B	2.01	0.72
3:B9:224:MET:HE3	20:PP:52:LYS:CG	2.16	0.72
6:W9:137:ARG:NH1	8:eR:258:ASN:ND2	2.37	0.72
7:NB:170:ASP:CB	28:bP:184:THR:CG2	2.66	0.72
6:IG:14:ALA:O	14:MG:261:ASP:OD1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LG:141:PHE:HZ	29:LG:203:PEB:H3A1	1.54	0.72
3:BI:226:GLN:H	3:BI:226:GLN:CD	1.95	0.72
4:GI:22:THR:HG21	4:II:7:GLU:HG3	1.69	0.72
6:UJ:63:TYR:CB	6:UJ:66:LEU:CD1	2.67	0.72
6:kJ:14:ALA:O	16:xJ:187:ARG:HA	1.88	0.72
6:mJ:94:ASN:ND2	7:nJ:19:VAL:O	2.17	0.72
6:oJ:91:ARG:CZ	7:pJ:16:ALA:HA	2.18	0.72
7:RL:113:LEU:HG	7:RL:176:ILE:HG22	1.71	0.72
7:ZL:16:ALA:HB2	7:hL:69:PRO:HG2	1.69	0.72
6:kL:117:TYR:OH	7:tL:76:ASN:ND2	2.22	0.72
7:kM:58:GLY:O	7:kM:62:GLU:HG2	1.88	0.72
6:CO:48:HIS:CE1	6:CO:49:GLU:OE1	2.43	0.72
7:NO:91:ARG:HH21	9:OO:400:VAL:HG23	1.50	0.72
27:aP:58:ASP:OD2	27:aP:61:ARG:NH2	2.14	0.72
24:zP:57:ILE:HD12	24:zP:102:TYR:HE2	1.53	0.72
6:QR:143:ASP:HB3	6:QR:144:MET:SD	2.28	0.72
6:UR:105:LEU:HD21	6:UR:159:LEU:HB3	1.71	0.72
6:h1:49:GLU:O	6:h1:53:LYS:HG3	1.88	0.72
6:O2:65:TYR:CE2	6:O2:66:LEU:HD23	2.24	0.72
6:S2:65:TYR:CE2	6:S2:66:LEU:HD23	2.25	0.72
7:I4:87:GLU:OE1	7:I4:87:GLU:N	2.19	0.72
7:K4:51:MET:HE3	7:K4:141:PHE:CE2	2.24	0.72
12:E8:72:MET:CE	5:HF:145:THR:CG2	2.67	0.72
6:S9:137:ARG:NH1	13:kH:118:ARG:HG3	2.02	0.72
7:m9:8:VAL:HG11	7:m9:23:ASP:CG	2.14	0.72
7:NB:85:ASP:CG	29:NB:201:PEB:HHC1	2.14	0.72
6:AC:135:ARG:NH1	6:AC:157:ASP:OD2	2.22	0.72
18:MC:258:THR:CG2	18:MC:259:PRO:HD3	2.18	0.72
7:ED:146:ALA:HA	29:ED:202:PEB:O1B	1.89	0.72
7:ID:62:GLU:HB2	4:EI:77:SER:HA	1.70	0.72
7:FG:137:GLN:CD	29:FG:203:PEB:C1B	2.62	0.72
5:DI:75:THR:HG22	5:DI:76:SER:N	2.04	0.72
5:FI:75:THR:HG22	5:FI:76:SER:N	2.05	0.72
6:AJ:138:LEU:HB2	29:AJ:202:PEB:CMD	2.18	0.72
7:NJ:114:LYS:CE	7:NJ:177:SER:CA	2.55	0.72
7:ZJ:33:ASP:CG	7:ZJ:36:LYS:HE3	2.15	0.72
6:qJ:33:ARG:HH12	6:qJ:147:GLN:NE2	1.86	0.72
7:tJ:77:ARG:HH11	16:xJ:212:ARG:NH2	1.83	0.72
19:zJ:362:GLY:O	21:nP:62:TYR:CE2	2.41	0.72
4:KK:32:GLN:HA	4:KK:32:GLN:NE2	2.00	0.72
19:zL:330:ARG:NH1	20:RP:61:ARG:HD3	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:tP:100:ASP:OD2	20:tP:102:THR:OG1	2.04	0.72
7:FQ:50:CYS:SG	29:FQ:203:PEB:C3A	2.77	0.72
3:B1:205:ARG:NH2	20:JP:52:LYS:CD	2.51	0.72
7:P1:147:THR:HG21	29:Q7:202:PEB:CMA	2.19	0.72
6:O2:69:PRO:CG	13:k6:232:PHE:HD2	1.97	0.72
6:O2:105:LEU:HD21	6:O2:159:LEU:HB3	1.71	0.72
6:W2:65:TYR:CD2	6:W2:66:LEU:HD12	2.23	0.72
6:J4:32:GLN:CD	6:J4:32:GLN:H	1.95	0.72
7:B5:104:VAL:HG23	18:MC:266:GLY:HA3	1.63	0.72
3:B7:172:LYS:HE2	5:N7:111:ASN:ND2	2.05	0.72
29:l7:202:PEB:C3A	12:E8:233:TYR:OH	2.31	0.72
7:A8:40:ALA:HB2	7:A8:161:LEU:CD1	2.18	0.72
5:J9:75:THR:HA	31:M9:1001:CYC:HBB3	1.71	0.72
6:GB:157:ASP:OD2	7:JB:46:SER:HB3	1.88	0.72
7:LC:7:ARG:HD3	18:MC:258:THR:HG21	1.71	0.72
18:MC:215:THR:C	18:MC:217:SER:H	1.98	0.72
7:GD:135:LYS:NZ	7:GD:166:ALA:O	2.22	0.72
6:IE:14:ALA:HB1	18:ME:51:PRO:CG	2.19	0.72
7:bJ:33:ASP:CG	7:bJ:36:LYS:HE3	2.15	0.72
6:oJ:10:SER:HB3	7:pJ:108:ARG:NH2	2.05	0.72
19:zJ:320:PHE:HD2	20:pP:79:ALA:O	1.72	0.72
6:OK:5:ILE:HD12	7:PK:3:ASP:OD2	1.89	0.72
7:VL:33:ASP:CG	7:VL:36:LYS:HE3	2.15	0.72
7:ZL:108:ARG:HH11	16:xL:41:ASN:HB3	1.54	0.72
7:NM:85:ASP:CG	29:NM:201:PEB:HHC1	2.14	0.72
21:IP:19:LEU:HD13	20:JP:97:ILE:HD12	1.71	0.72
7:DQ:54:ASP:OD2	29:DQ:203:PEB:HBA2	1.89	0.72
6:OR:65:TYR:CE2	6:OR:66:LEU:HD23	2.24	0.72
6:SR:65:TYR:CE2	6:SR:66:LEU:HD23	2.24	0.72
6:SR:105:LEU:HD21	6:SR:159:LEU:HB3	1.71	0.72
6:UR:137:ARG:NH2	29:UR:202:PEB:C4B	2.52	0.72
6:U2:65:TYR:CE2	6:U2:66:LEU:HD23	2.24	0.72
7:K4:135:LYS:NZ	7:K4:166:ALA:O	2.22	0.72
5:N7:166:ARG:NH1	26:2P:96:VAL:HG21	2.03	0.72
7:I8:14:ALA:HB1	21:nP:124:GLY:N	2.02	0.72
3:B9:217:ASP:OD2	27:aP:55:TYR:OH	2.07	0.72
4:E9:90:TYR:CE1	8:eR:297:GLY:O	2.43	0.72
5:H9:150:ILE:HG22	7:ZM:159:THR:CG2	2.11	0.72
6:S9:22:SER:OG	6:U9:2:LYS:NZ	2.23	0.72
15:bB:204:CYS:HB3	7:FB:111:ASN:O	1.89	0.72
10:dD:288:ARG:HH21	7:TI:62:GLU:HG2	1.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:LE:201:PEB:CBB	18:ME:219:SER:HB2	2.19	0.72
5:JF:18:PHE:HE2	27:3P:98:GLN:HG3	1.54	0.72
7:RJ:113:LEU:HG	7:RJ:176:ILE:HG22	1.71	0.72
7:dJ:33:ASP:CG	7:dJ:36:LYS:HE3	2.15	0.72
7:jJ:33:ASP:CG	7:jJ:36:LYS:HE3	2.15	0.72
6:kJ:117:TYR:OH	7:tJ:76:ASN:ND2	2.22	0.72
3:BK:205:ARG:HH21	20:IP:52:LYS:HG3	0.90	0.72
4:KK:33:ARG:HH22	4:KK:145:GLN:CD	1.93	0.72
7:LL:27:LEU:HG	28:bP:228:ILE:HG21	1.71	0.72
6:qL:107:GLU:OE1	16:xL:136:SER:OG	2.08	0.72
16:wL:86:CYS:CB	30:wL:305:PUB:HAA2	2.15	0.72
19:zL:329:ILE:HG23	20:NP:66:VAL:HG21	1.68	0.72
19:zL:363:ARG:CD	21:LP:67:ARG:HH12	2.01	0.72
21:HP:42:ALA:HA	25:YP:40:LEU:HD21	1.70	0.72
27:aP:45:THR:HB	21:uP:14:VAL:CG2	2.19	0.72
27:3P:72:LEU:HD12	27:3P:73:PRO:HD2	1.71	0.72
6:CQ:2:LYS:HD2	14:MQ:138:SER:O	1.89	0.72
6:MR:65:TYR:CE2	6:MR:66:LEU:HD23	2.24	0.72
6:UR:138:LEU:N	29:UR:202:PEB:CMD	2.49	0.72
4:E1:142:LEU:HD13	4:E1:146:VAL:HG12	1.72	0.72
6:O2:142:ARG:CD	6:IB:76:GLN:NE2	2.52	0.72
10:d4:160:GLN:HA	10:d4:163:VAL:HG22	1.70	0.72
7:E4:59:MET:SD	7:E4:130:ALA:HB2	2.30	0.72
6:H4:113:ALA:O	6:H4:116:VAL:CG2	2.36	0.72
12:E5:88:ALA:O	6:ZI:141:PRO:HG2	1.88	0.72
13:k6:259:SER:HA	6:U7:67:LYS:HZ1	0.95	0.72
7:I8:27:LEU:CD2	19:zJ:298:ALA:HB2	2.20	0.72
15:bB:343:PHE:HZ	20:KP:64:ASP:N	1.87	0.72
7:VB:82:CYS:CA	7:VB:85:ASP:OD1	2.37	0.72
6:BD:54:GLU:OE2	6:BD:137:ARG:NE	2.15	0.72
7:ED:51:MET:HE3	7:ED:141:PHE:CE2	2.24	0.72
5:LF:75:THR:HG22	5:LF:76:SER:N	2.04	0.72
5:LI:75:THR:HG22	5:LI:76:SER:N	2.04	0.72
6:oJ:5:ILE:HG21	7:pJ:99:ALA:HA	1.72	0.72
7:pJ:33:ASP:CG	7:pJ:36:LYS:HE3	2.15	0.72
5:NK:41:VAL:HG21	5:NK:98:ILE:HG23	1.72	0.72
7:YK:46:SER:HB2	6:ZK:157:ASP:OD2	1.89	0.72
7:NM:170:ASP:HB3	28:4P:184:THR:CG2	2.19	0.72
24:XP:57:ILE:HD12	24:XP:102:TYR:HE2	1.53	0.72
28:bP:40:ARG:HH12	28:bP:41:THR:HG23	1.55	0.72
21:jP:38:VAL:HG11	25:1P:44:VAL:HG13	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:MR:81:LYS:HE3	29:MR:201:PEB:HAB2	0.76	0.72
4:G1:33:ARG:HG3	4:I1:25:GLN:HG2	1.72	0.72
5:H1:41:VAL:HG21	5:H1:98:ILE:HG23	1.70	0.72
6:W2:142:ARG:HD3	29:W2:202:PEB:CHA	2.15	0.72
10:d4:226:ARG:HG2	10:d4:226:ARG:NH1	2.01	0.72
7:B5:91:ARG:HH21	18:MC:293:MET:CB	2.01	0.72
7:G5:150:LYS:O	7:k9:147:THR:CA	2.37	0.72
3:B7:197:PHE:HB2	21:QP:50:THR:OG1	1.83	0.72
3:B7:227:GLU:HG2	20:rP:52:LYS:CE	2.20	0.72
7:I8:28:LYS:HB2	19:zJ:290:LEU:HB3	1.71	0.72
6:J8:18:PHE:CZ	7:K8:91:ARG:HG2	2.24	0.72
12:E8:183:TYR:HB3	6:bF:83:TYR:CE2	2.23	0.72
7:DB:85:ASP:OD1	29:DB:201:PEB:HHC1	1.90	0.72
7:NB:25:GLN:CG	21:MP:147:LYS:HB2	2.20	0.72
18:MC:312:LEU:HD12	18:MC:313:THR:CG2	2.18	0.72
7:ID:51:MET:HE3	7:ID:141:PHE:CE2	2.24	0.72
5:JF:22:THR:OG1	27:3P:92:PRO:HG2	1.88	0.72
7:TF:85:ASP:OD2	29:TF:201:PEB:C1B	2.36	0.72
1:XI:347:TYR:HE1	31:FI:1001:CYC:HBB3	1.53	0.72
7:NJ:114:LYS:HE3	7:NJ:177:SER:N	2.03	0.72
7:hJ:33:ASP:CG	7:hJ:36:LYS:HE3	2.15	0.72
7:rJ:33:ASP:CG	7:rJ:36:LYS:HE3	2.15	0.72
4:KK:40:ALA:HB2	4:KK:146:VAL:HG13	1.70	0.72
6:SK:32:GLN:HG3	6:UK:32:GLN:HG3	1.69	0.72
7:gK:7:ARG:HG2	14:MN:98:LEU:HD13	1.71	0.72
7:gK:97:LEU:CD1	7:gK:165:VAL:CG2	2.62	0.72
6:CL:75:ASN:OD1	6:CL:78:LYS:HG2	1.89	0.72
17:BM:181:THR:CG2	29:BM:301:PEB:CBA	2.67	0.72
6:OM:54:GLU:OE1	29:OM:202:PEB:HAC1	1.90	0.72
6:KN:37:ARG:CG	6:KN:97:LEU:O	2.38	0.72
20:AP:23:LEU:HD22	21:BP:38:VAL:HG13	1.70	0.72
21:BP:128:GLN:HE22	23:WP:72:ASN:C	1.96	0.72
6:QR:54:GLU:OE2	29:QR:202:PEB:C2C	2.37	0.72
4:E1:53:THR:HB	6:Q7:76:GLN:NE2	2.04	0.72
6:M2:65:TYR:CE2	6:M2:66:LEU:HD23	2.24	0.72
10:d4:156:SER:N	29:E4:201:PEB:O1C	2.23	0.72
7:G4:87:GLU:OE1	7:G4:87:GLU:N	2.19	0.72
12:E5:183:TYR:HE2	6:bI:83:TYR:HB2	1.52	0.72
7:L8:104:VAL:CG2	4:I9:68:GLN:HE22	2.02	0.72
3:B9:130:ILE:HD11	5:L9:84:ARG:HH12	1.54	0.72
3:B9:225:VAL:CA	3:B9:228:MET:HE2	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F9:15:ARG:NH1	7:a9:62:GLU:HB3	2.02	0.72
6:KB:54:GLU:OE1	29:KB:202:PEB:HAC1	1.90	0.72
7:VB:82:CYS:HA	7:VB:85:ASP:OD1	1.89	0.72
7:LC:7:ARG:CD	18:MC:258:THR:CG2	2.68	0.72
18:MC:144:ARG:O	18:MC:145:ASP:OD1	2.07	0.72
7:MD:51:MET:HE3	7:MD:141:PHE:CE2	2.24	0.72
18:ME:221:ALA:CB	18:ME:222:PRO:CD	2.63	0.72
7:FG:61:CYS:CB	29:FG:203:PEB:HBD2	2.18	0.72
1:XI:106:GLN:NE2	1:XI:123:ALA:O	2.23	0.72
5:JI:155:SER:HB2	27:aP:83:ARG:HD2	1.72	0.72
16:wJ:86:CYS:HB2	30:wJ:305:PUB:HBA1	1.70	0.72
5:LK:36:GLN:HE21	29:LK:1002:PEB:HMB3	1.54	0.72
6:mL:68:ASN:HD22	6:mL:71:GLU:CD	1.88	0.72
15:bM:341:ALA:CB	15:bM:349:LYS:HD3	2.19	0.72
15:bM:370:TYR:OH	21:oP:58:LYS:HE3	1.89	0.72
6:KM:135:ARG:HD2	6:KM:157:ASP:OD1	1.90	0.72
7:gM:61:CYS:HB3	29:gM:203:PEB:HBD2	1.71	0.72
21:FP:67:ARG:HG3	21:FP:67:ARG:NH2	1.98	0.72
8:eR:85:PRO:HB3	7:NR:107:ASP:CB	2.20	0.72
6:QR:143:ASP:O	6:QR:144:MET:CG	2.31	0.72
7:P1:97:LEU:HD13	7:P1:165:VAL:HG23	1.70	0.72
6:M2:137:ARG:CZ	29:M2:202:PEB:O1B	2.27	0.72
10:d4:284:LEU:CD1	29:TF:202:PEB:H1D1	2.20	0.72
7:G4:135:LYS:NZ	7:G4:166:ALA:O	2.22	0.72
7:I4:51:MET:HE3	7:I4:141:PHE:CE2	2.24	0.72
7:K4:7:ARG:HE	7:K4:7:ARG:HA	1.55	0.72
13:k6:183:TYR:HB2	5:H7:140:ALA:CB	2.20	0.72
7:I8:24:LEU:HD13	19:zJ:295:LYS:HE2	1.72	0.72
3:B9:174:GLU:OE2	26:ZP:81:PHE:HA	1.88	0.72
5:F9:32:LYS:HD3	5:F9:32:LYS:O	1.88	0.72
5:J9:74:TYR:HH	4:M9:93:ARG:NH2	1.87	0.72
7:ED:7:ARG:HE	7:ED:7:ARG:HA	1.55	0.72
18:ME:232:MET:HE3	29:SI:202:PEB:HAB1	1.65	0.72
18:ME:303:PHE:CE2	6:gL:83:TYR:CZ	2.78	0.72
7:fJ:107:ASP:HB3	16:wJ:140:LYS:NZ	2.05	0.72
7:tJ:33:ASP:CG	7:tJ:36:LYS:HE3	2.15	0.72
4:GK:40:ALA:HB2	4:GK:146:VAL:HG13	1.70	0.72
7:NL:108:ARG:NH2	16:wL:41:ASN:HB2	2.05	0.72
7:RL:33:ASP:CG	7:RL:36:LYS:HE3	2.15	0.72
7:bL:33:ASP:CG	7:bL:36:LYS:HE3	2.15	0.72
6:GM:135:ARG:HH12	7:JM:149:ARG:HH11	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aM:54:GLU:OE1	29:aM:202:PEB:HAC1	1.90	0.72
6:EN:30:ASN:O	6:EN:34:SER:HB3	1.90	0.72
7:NO:91:ARG:NH2	9:OO:400:VAL:HG23	2.03	0.72
8:eR:85:PRO:HB3	7:NR:107:ASP:HB2	1.71	0.72
7:TR:106:GLU:HG2	7:TR:110:LEU:CD1	2.20	0.72
7:e1:97:LEU:CD1	7:e1:165:VAL:CG2	2.62	0.72
8:e2:126:TYR:CE2	7:V2:116:THR:CG2	2.69	0.72
8:e2:187:PHE:CD1	6:W2:14:ALA:HB1	2.24	0.72
6:O2:138:LEU:CA	29:O2:202:PEB:HMD1	2.20	0.72
7:V2:38:LEU:HD13	29:V2:202:PEB:C4D	2.18	0.72
7:D3:39:ASP:CG	29:D3:202:PEB:HMD2	2.14	0.72
6:B4:29:GLY:CA	6:B4:32:GLN:HE22	2.03	0.72
1:X7:264:GLU:N	5:D7:115:GLU:OE2	2.23	0.72
5:J7:107:ASP:OD1	26:2P:55:PRO:HD3	1.89	0.72
7:a7:29:SER:OG	12:E8:43:ALA:CB	2.38	0.72
7:k7:147:THR:CA	7:G8:150:LYS:O	2.38	0.72
12:E8:186:PRO:CG	6:bF:57:ASP:HB3	2.16	0.72
5:J9:75:THR:HA	31:M9:1001:CYC:CBB	2.19	0.72
7:GD:7:ARG:HE	7:GD:7:ARG:HA	1.55	0.72
7:ID:104:VAL:HG22	7:ID:108:ARG:HD2	1.72	0.72
7:KD:87:GLU:OE1	7:KD:87:GLU:N	2.19	0.72
7:MD:135:LYS:NZ	7:MD:166:ALA:O	2.22	0.72
7:LG:141:PHE:CZ	29:LG:203:PEB:H3A1	2.25	0.72
6:aJ:43:LYS:HE2	6:aJ:143:ASP:O	1.89	0.72
6:sJ:14:ALA:HA	16:xJ:87:THR:HA	1.72	0.72
19:zJ:363:ARG:HD3	21:nP:62:TYR:CA	2.20	0.72
5:JK:47:ASN:HD21	5:JK:141:LEU:HD21	1.55	0.72
5:NK:47:ASN:ND2	5:NK:141:LEU:HD21	2.03	0.72
6:bK:28:GLN:HG2	6:dK:33:ARG:HE	1.53	0.72
7:DL:33:ASP:CG	7:DL:36:LYS:HE3	2.15	0.72
7:LL:26:ALA:CB	28:bP:228:ILE:HG22	2.20	0.72
7:hL:33:ASP:CG	7:hL:36:LYS:HE3	2.15	0.72
29:FN:201:PEB:CBD	14:MN:181:TYR:HD2	2.01	0.72
26:2P:110:LEU:HB3	26:2P:111:PRO:HD2	1.70	0.72
6:UR:65:TYR:CE2	6:UR:66:LEU:HD23	2.24	0.72
7:C4:7:ARG:HE	7:C4:7:ARG:HA	1.55	0.72
7:C4:135:LYS:NZ	7:C4:166:ALA:O	2.22	0.72
7:E4:7:ARG:HE	7:E4:7:ARG:HA	1.55	0.72
29:I7:202:PEB:H3A1	12:E8:233:TYR:HH	1.52	0.72
5:H9:141:LEU:CD1	13:kH:187:THR:HB	2.14	0.72
4:K9:50:ARG:HH12	3:BI:228:MET:CB	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:W9:202:PEB:HMA2	8:eR:249:TYR:CD1	2.25	0.72
29:JA:201:PEB:CBC	14:MA:162:LEU:HD23	2.19	0.72
6:CB:3:SER:O	6:CB:7:THR:OG1	2.08	0.72
6:MB:54:GLU:OE1	29:MB:202:PEB:HAC1	1.90	0.72
6:YB:54:GLU:OE1	29:YB:203:PEB:HAC1	1.90	0.72
6:CC:33:ARG:O	6:CC:36:ALA:N	2.20	0.72
7:ED:135:LYS:NZ	7:ED:166:ALA:O	2.22	0.72
18:ME:215:THR:C	18:ME:217:SER:H	1.97	0.72
5:FF:75:THR:HG22	5:FF:76:SER:N	2.05	0.72
3:BI:204:ARG:HH12	21:SP:57:ALA:CB	2.01	0.72
6:GJ:122:LEU:HD22	29:GJ:201:PEB:HNA	1.54	0.72
29:vJ:201:PEB:O1C	16:xJ:137:TYR:CZ	2.41	0.72
7:aK:97:LEU:CD1	7:aK:165:VAL:CG2	2.62	0.72
7:gK:7:ARG:CG	14:MN:96:LYS:HA	2.20	0.72
7:LL:26:ALA:CB	28:bP:231:ILE:HG13	2.19	0.72
7:PL:42:ASN:O	7:PL:46:SER:OG	2.08	0.72
7:XL:33:ASP:CG	7:XL:36:LYS:HE3	2.15	0.72
7:tL:33:ASP:CG	7:tL:36:LYS:HE3	2.15	0.72
19:zL:332:LEU:CD2	20:NP:64:ASP:HA	2.19	0.72
21:MP:147:LYS:C	21:MP:147:LYS:HD3	2.15	0.72
29:FQ:201:PEB:HMC2	14:MQ:181:TYR:HE2	1.14	0.72
8:eR:77:PHE:CD2	8:eR:84:LYS:NZ	2.57	0.72
6:OR:99:VAL:HG23	6:OR:101:GLY:H	1.55	0.72
6:QR:65:TYR:CE2	6:QR:66:LEU:HD23	2.24	0.72
7:R1:97:LEU:CD1	7:R1:165:VAL:CG2	2.62	0.71
7:k1:3:ASP:OD1	7:k1:99:ALA:HB1	1.90	0.71
6:C3:48:HIS:CE1	6:C3:49:GLU:OE1	2.43	0.71
6:F4:81:LYS:O	6:F4:84:ARG:HD2	1.88	0.71
7:I4:7:ARG:HE	7:I4:7:ARG:HA	1.55	0.71
7:I4:51:MET:CE	29:I4:203:PEB:CHA	2.67	0.71
7:I4:114:LYS:HE2	7:I4:177:SER:OXT	1.89	0.71
1:X7:140:LEU:O	1:X7:144:ILE:HG13	1.90	0.71
7:B8:91:ARG:NE	18:ME:293:MET:HB2	2.03	0.71
7:K8:104:VAL:CG1	7:K8:108:ARG:HG3	2.19	0.71
7:FA:115:GLU:OE1	14:MA:111:ARG:CG	2.38	0.71
7:gB:61:CYS:HB3	29:gB:203:PEB:HBD2	1.71	0.71
6:CC:135:ARG:NH1	6:CC:157:ASP:OD2	2.22	0.71
7:KD:51:MET:HE3	7:KD:141:PHE:CE2	2.24	0.71
7:MD:60:ILE:HG21	7:MD:67:ILE:HD12	1.71	0.71
6:AE:135:ARG:NH1	6:AE:157:ASP:OD2	2.22	0.71
7:aI:1:MET:C	7:aI:2:LEU:HD12	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mJ:2:LYS:HB2	16:xJ:192:GLY:O	1.90	0.71
7:ZL:33:ASP:CG	7:ZL:36:LYS:HE3	2.15	0.71
21:FP:110:ASN:OD1	25:YP:653:GLN:HB3	1.90	0.71
21:dP:90:ARG:NH1	20:eP:15:ALA:HA	2.04	0.71
7:HQ:141:PHE:HZ	29:HQ:203:PEB:CMA	1.99	0.71
8:eR:57:PHE:CZ	7:TR:80:ALA:HB3	2.25	0.71
6:OR:105:LEU:HD21	6:OR:159:LEU:HB3	1.71	0.71
4:E1:77:SER:HB3	13:k6:104:GLN:NE2	2.04	0.71
5:N1:39:ASP:OD1	5:N1:39:ASP:N	2.22	0.71
5:N1:41:VAL:HG21	5:N1:98:ILE:HG23	1.72	0.71
6:Q2:142:ARG:HD2	29:Q2:202:PEB:HBA3	1.67	0.71
6:W2:138:LEU:HD11	6:W2:143:ASP:HB2	1.70	0.71
7:I4:106:GLU:H	7:I4:106:GLU:CD	1.98	0.71
6:L4:54:GLU:OE2	6:L4:137:ARG:NE	2.15	0.71
7:B5:104:VAL:N	18:MC:265:LYS:HG3	2.04	0.71
7:I5:14:ALA:CA	21:LP:124:GLY:N	2.53	0.71
1:X9:264:GLU:N	5:D9:115:GLU:CD	2.48	0.71
6:fB:54:GLU:OE1	29:fB:202:PEB:HAC1	1.90	0.71
7:CD:106:GLU:H	7:CD:106:GLU:CD	1.98	0.71
6:FD:21:ASN:N	6:FD:21:ASN:OD1	2.17	0.71
7:ID:7:ARG:HE	7:ID:7:ARG:HA	1.55	0.71
7:MD:87:GLU:OE1	7:MD:87:GLU:N	2.19	0.71
18:ME:304:TRP:C	18:ME:306:LYS:H	1.97	0.71
18:ME:304:TRP:C	18:ME:306:LYS:N	2.48	0.71
7:HJ:128:ILE:CD1	7:HJ:177:SER:OG	2.38	0.71
7:LJ:26:ALA:HB1	28:4P:231:ILE:CG1	2.20	0.71
7:nJ:33:ASP:CG	7:nJ:36:LYS:HE3	2.15	0.71
19:zJ:366:ARG:NH1	21:nP:62:TYR:CE2	2.57	0.71
5:JK:18:PHE:H	15:bM:335:ILE:HD11	1.44	0.71
7:RK:3:ASP:OD1	7:RK:99:ALA:HB1	1.90	0.71
7:YK:97:LEU:HD13	7:YK:165:VAL:HG23	1.70	0.71
6:AL:138:LEU:HB2	29:AL:202:PEB:CMD	2.18	0.71
6:aL:43:LYS:HE2	6:aL:143:ASP:O	1.89	0.71
6:oL:5:ILE:HG21	7:pL:99:ALA:HA	1.72	0.71
6:UM:142:ARG:HD2	14:MQ:112:LEU:C	2.15	0.71
7:FN:115:GLU:CD	14:MN:111:ARG:HG3	2.15	0.71
21:FP:60:LEU:HD13	21:FP:72:MET:CE	2.19	0.71
21:kP:71:MEN:O	21:kP:71:MEN:CE2	2.37	0.71
20:tP:13:ALA:HB3	25:1P:706:LYS:HD3	1.71	0.71
6:SR:99:VAL:HG23	6:SR:101:GLY:H	1.55	0.71
6:B4:30:ASN:OD1	6:B4:37:ARG:NH2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:30:ASN:OD1	6:H4:37:ARG:NH2	2.23	0.71
6:L4:30:ASN:OD1	6:L4:37:ARG:NH2	2.24	0.71
7:C8:161:LEU:HD12	29:C8:202:PEB:CBA	2.20	0.71
4:C9:57:GLN:NE2	4:GI:61:ASN:CB	2.54	0.71
6:GB:135:ARG:HH12	7:JB:149:ARG:HH11	1.35	0.71
6:UB:54:GLU:OE1	29:UB:202:PEB:HAC1	1.90	0.71
6:IB:53:LYS:CE	6:IB:53:LYS:HA	2.20	0.71
6:CE:135:ARG:NH1	6:CE:157:ASP:OD2	2.22	0.71
4:KF:97:TYR:OH	5:LF:17:GLU:O	2.06	0.71
6:EG:137:ARG:HH11	29:EG:202:PEB:HHB1	1.56	0.71
2:AI:200:ARG:HH21	7:iL:91:ARG:HH22	1.37	0.71
6:IJ:138:LEU:HG	6:IJ:138:LEU:O	1.90	0.71
6:MJ:161:ASN:ND2	7:PJ:46:SER:O	2.24	0.71
6:UJ:63:TYR:CB	6:UJ:66:LEU:HD11	2.20	0.71
6:kJ:14:ALA:O	16:xJ:187:ARG:CG	2.38	0.71
4:EK:32:GLN:HG3	4:KK:32:GLN:HG3	1.73	0.71
7:cK:97:LEU:CD1	7:cK:165:VAL:CG2	2.62	0.71
15:bM:341:ALA:HB3	15:bM:349:LYS:HD3	1.72	0.71
20:GP:45:GLU:OE2	21:dP:139:SER:HB2	1.90	0.71
25:YP:698:VAL:HG23	25:YP:699:SER:H	1.56	0.71
6:EQ:2:LYS:HZ1	14:MQ:194:ILE:H	1.37	0.71
3:B1:17:VAL:HG13	31:N1:1001:CYC:HB	1.32	0.71
5:J1:47:ASN:HD21	5:J1:141:LEU:HD21	1.55	0.71
7:g1:3:ASP:OD1	7:g1:99:ALA:HB1	1.91	0.71
7:k1:97:LEU:HD13	7:k1:165:VAL:HG23	1.70	0.71
8:e2:249:TYR:CD1	29:W7:202:PEB:HMA2	2.25	0.71
6:E3:24:LEU:HD12	6:E3:24:LEU:C	2.15	0.71
7:C4:51:MET:HE3	7:C4:141:PHE:CE2	2.24	0.71
7:K4:148:GLU:OE2	29:K4:203:PEB:C1A	2.38	0.71
7:B5:91:ARG:CZ	18:MC:293:MET:HB2	2.20	0.71
7:K5:161:LEU:HD12	29:K5:202:PEB:HBA1	1.72	0.71
6:S7:22:SER:OG	6:U7:2:LYS:NZ	2.23	0.71
1:X9:264:GLU:N	5:D9:115:GLU:OE2	2.23	0.71
6:U9:83:TYR:CD2	13:kH:261:MET:HE3	2.21	0.71
7:ED:106:GLU:H	7:ED:106:GLU:CD	1.98	0.71
6:LD:30:ASN:OD1	6:LD:37:ARG:NH2	2.23	0.71
1:XF:106:GLN:NE2	1:XF:123:ALA:O	2.23	0.71
6:OI:6:THR:HG23	7:PI:1:MET:HE3	1.69	0.71
7:VJ:33:ASP:CG	7:VJ:36:LYS:HE3	2.15	0.71
29:IJ:201:PEB:CBC	16:xJ:255:GLN:HE22	2.03	0.71
7:vJ:33:ASP:CG	7:vJ:36:LYS:HE3	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:366:ARG:NH1	21:nP:62:TYR:HE2	1.89	0.71
7:RK:97:LEU:HD13	7:RK:165:VAL:HG23	1.70	0.71
7:jL:33:ASP:CG	7:jL:36:LYS:HE3	2.15	0.71
7:nL:33:ASP:CG	7:nL:36:LYS:HE3	2.15	0.71
6:EO:24:LEU:HD12	6:EO:24:LEU:C	2.15	0.71
21:uP:42:ALA:HB2	20:vP:23:LEU:HD13	1.72	0.71
6:AQ:137:ARG:HH11	29:AQ:202:PEB:HBB1	1.56	0.71
6:UR:99:VAL:HG23	6:UR:101:GLY:H	1.55	0.71
4:C1:145:GLN:HA	4:C1:145:GLN:OE1	1.90	0.71
4:K1:19:LEU:HD13	5:L1:98:ILE:CD1	2.17	0.71
6:j1:157:ASP:OD2	7:m1:46:SER:CB	2.38	0.71
6:M2:37:ARG:NE	6:M2:151:GLU:CD	2.41	0.71
6:S2:65:TYR:CZ	6:S2:66:LEU:CD2	2.74	0.71
6:W2:99:VAL:HG23	6:W2:101:GLY:H	1.56	0.71
7:C4:58:GLY:C	29:C4:203:PEB:CAD	2.63	0.71
7:I5:24:LEU:N	7:I5:24:LEU:HD22	2.05	0.71
12:E5:91:MET:HE2	6:ZI:142:ARG:NH1	2.05	0.71
13:k6:172:LYS:HB3	13:k6:172:LYS:NZ	2.05	0.71
4:C7:57:GLN:NE2	4:GF:61:ASN:CB	2.54	0.71
5:H7:150:ILE:HG22	7:ZB:159:THR:CG2	2.11	0.71
7:K8:161:LEU:HD12	29:K8:202:PEB:HBA1	1.72	0.71
1:X9:140:LEU:O	1:X9:144:ILE:HG13	1.90	0.71
3:B9:121:ASN:HD21	26:ZP:52:GLY:CA	1.70	0.71
4:E9:89:GLY:HA3	8:eR:297:GLY:CA	2.18	0.71
6:KB:135:ARG:HD2	6:KB:157:ASP:OD1	1.90	0.71
18:ME:309:PRO:CD	18:ME:310:SER:H	2.03	0.71
6:AG:25:GLU:HG2	6:CG:37:ARG:HD2	1.72	0.71
7:FJ:159:THR:CG2	25:YP:513:GLY:HA3	2.21	0.71
6:ML:140:VAL:HG21	6:ML:146:ALA:CA	2.21	0.71
7:NL:5:PHE:CE2	7:NL:31:ILE:HD11	2.26	0.71
7:vL:33:ASP:CG	7:vL:36:LYS:HE3	2.15	0.71
7:MO:87:GLU:CD	7:MO:91:ARG:CD	2.63	0.71
20:iP:27:LYS:HB2	23:yP:38:LEU:HD13	1.73	0.71
6:CQ:21:ASN:HA	6:CQ:24:LEU:HG	1.73	0.71
6:QR:65:TYR:CZ	6:QR:66:LEU:CD2	2.74	0.71
4:I1:137:LYS:O	4:I1:140:HIS:NE2	2.24	0.71
6:O1:5:ILE:HD12	7:P1:3:ASP:OD2	1.89	0.71
7:c1:3:ASP:OD1	7:c1:99:ALA:HB1	1.90	0.71
6:O2:99:VAL:HG23	6:O2:101:GLY:H	1.55	0.71
6:Q2:142:ARG:HD3	29:Q2:202:PEB:HHA1	1.72	0.71
7:C4:136:ALA:CB	29:C4:203:PEB:HBC2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:7:ARG:HA	7:G4:7:ARG:HE	1.55	0.71
7:I4:104:VAL:HG22	7:I4:108:ARG:HD2	1.72	0.71
7:K5:1:MET:CE	7:K5:95:TYR:CZ	2.73	0.71
13:k6:32:ASN:H	13:k6:32:ASN:HD22	1.37	0.71
13:k6:198:MET:SD	5:H7:57:ARG:HD2	2.31	0.71
1:X7:264:GLU:N	5:D7:115:GLU:CD	2.48	0.71
3:B9:172:LYS:HB2	26:ZP:86:PRO:HG3	1.71	0.71
10:dD:160:GLN:HA	10:dD:163:VAL:HG22	1.70	0.71
7:aI:1:MET:O	7:aI:2:LEU:CD1	2.31	0.71
7:XJ:33:ASP:CG	7:XJ:36:LYS:HE3	2.15	0.71
7:VK:3:ASP:OD1	7:VK:99:ALA:HB1	1.90	0.71
7:cK:97:LEU:HD13	7:cK:165:VAL:HG23	1.70	0.71
6:KL:73:GLY:HA2	6:KL:78:LYS:HB3	1.73	0.71
6:kL:28:GLN:HB2	6:mL:33:ARG:NH2	2.05	0.71
7:NM:129:ARG:CG	28:4P:121:HIS:CB	2.67	0.71
6:AO:42:GLU:HG2	7:BO:24:LEU:HD12	1.72	0.71
21:SP:69:GLY:HA2	21:UP:14:VAL:HG23	1.73	0.71
6:WR:99:VAL:HG23	6:WR:101:GLY:H	1.55	0.71
4:C1:113:ALA:HB1	5:F1:77:ARG:HB2	1.70	0.71
7:G4:106:GLU:CD	7:G4:106:GLU:H	1.98	0.71
6:J4:133:TYR:O	6:J4:137:ARG:CG	2.39	0.71
7:L5:104:VAL:CG2	4:I7:68:GLN:NE2	2.54	0.71
2:A7:48:ARG:NH2	7:Y7:108:ARG:O	2.24	0.71
5:L7:125:SER:HB2	27:aP:284:VAL:HG11	1.72	0.71
7:I8:28:LYS:HD3	19:zJ:291:ILE:CG1	2.19	0.71
3:B9:44:ASP:OD1	3:B9:74:ARG:NH2	2.20	0.71
5:H9:140:ALA:CB	13:kH:183:TYR:HB2	2.20	0.71
5:J9:77:ARG:HH12	31:J9:1001:CYC:CGA	2.04	0.71
6:GB:135:ARG:NH1	7:JB:149:ARG:HH11	1.83	0.71
6:GB:157:ASP:OD2	7:JB:46:SER:CB	2.39	0.71
6:WB:54:GLU:OE1	29:WB:202:PEB:HAC1	1.90	0.71
6:EC:33:ARG:HE	6:EC:33:ARG:HA	1.55	0.71
18:MC:309:PRO:CD	18:MC:310:SER:H	2.03	0.71
10:dD:287:ARG:O	10:dD:287:ARG:HG3	1.89	0.71
6:FD:30:ASN:OD1	6:FD:37:ARG:NH2	2.23	0.71
6:LD:54:GLU:OE2	6:LD:137:ARG:NE	2.15	0.71
18:ME:232:MET:HG3	18:ME:237:PHE:N	2.06	0.71
7:aF:1:MET:O	7:aF:2:LEU:CD1	2.31	0.71
13:kH:32:ASN:H	13:kH:32:ASN:HD22	1.37	0.71
13:kH:109:GLU:OE1	4:EK:67:THR:HG23	1.90	0.71
6:KJ:72:ALA:O	6:KJ:78:LYS:HE3	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:363:ARG:CA	21:nP:62:TYR:CZ	2.73	0.71
5:NK:47:ASN:HD21	5:NK:141:LEU:HD21	1.56	0.71
7:HL:115:GLU:OE2	7:HL:115:GLU:N	2.17	0.71
7:HL:128:ILE:CD1	7:HL:177:SER:OG	2.38	0.71
7:pL:33:ASP:CG	7:pL:36:LYS:HE3	2.15	0.71
16:wL:183:LYS:HG3	16:xL:40:VAL:CG2	2.18	0.71
19:zL:339:VAL:CG1	20:RP:63:PRO:HB2	2.18	0.71
6:GM:157:ASP:OD2	7:JM:46:SER:CB	2.39	0.71
6:UM:53:LYS:O	14:MQ:100:THR:HG21	1.87	0.71
20:GP:15:ALA:HB2	25:YP:246:GLY:CA	2.20	0.71
6:IQ:2:LYS:HZ3	14:MQ:254:VAL:HG13	1.55	0.71
4:E1:111:LEU:O	4:E1:111:LEU:HD23	1.91	0.71
5:J1:17:GLU:CD	15:bB:333:ARG:CD	2.63	0.71
7:V1:3:ASP:OD1	7:V1:99:ALA:HB1	1.90	0.71
8:e2:293:THR:HG21	7:T2:135:LYS:NZ	2.05	0.71
7:R2:142:ILE:CD1	7:R2:165:VAL:HG11	2.21	0.71
7:X2:142:ILE:CD1	7:X2:165:VAL:HG11	2.21	0.71
7:E4:135:LYS:NZ	7:E4:166:ALA:O	2.22	0.71
7:M4:106:GLU:H	7:M4:106:GLU:CD	1.98	0.71
7:B5:104:VAL:HG23	18:MC:265:LYS:C	2.16	0.71
12:E5:183:TYR:HD2	6:bI:83:TYR:HD2	0.82	0.71
6:Q9:69:PRO:CD	13:kH:102:TYR:CE1	2.73	0.71
6:KA:37:ARG:CG	6:KA:97:LEU:O	2.38	0.71
18:MC:242:LYS:CB	29:SF:202:PEB:CBB	2.65	0.71
7:ED:87:GLU:OE1	7:ED:87:GLU:N	2.19	0.71
6:JD:30:ASN:OD1	6:JD:37:ARG:NH2	2.23	0.71
6:IG:21:ASN:HA	6:IG:24:LEU:HG	1.73	0.71
5:JI:135:LYS:HZ3	27:aP:67:GLY:HA2	1.56	0.71
6:jI:49:GLU:HA	6:jI:49:GLU:OE1	1.90	0.71
4:CK:145:GLN:OE1	4:CK:145:GLN:HA	1.90	0.71
5:DK:40:ILE:HG13	29:DK:1002:PEB:CBA	2.21	0.71
5:JK:8:VAL:C	5:JK:11:GLN:OE1	2.33	0.71
6:KL:72:ALA:O	6:KL:78:LYS:HE3	1.91	0.71
6:OL:94:ASN:HD22	7:PL:18:TYR:HD2	1.39	0.71
7:dL:33:ASP:CG	7:dL:36:LYS:HE3	2.15	0.71
7:rL:33:ASP:CG	7:rL:36:LYS:HE3	2.15	0.71
16:wL:164:SER:HB3	16:xL:36:GLN:NE2	2.04	0.71
7:DM:85:ASP:OD1	29:DM:201:PEB:HHC1	1.90	0.71
6:UM:54:GLU:OE1	29:MQ:401:PEB:HAC1	1.90	0.71
6:jM:54:GLU:OE1	29:jM:202:PEB:CBC	2.39	0.71
14:MN:295:PHE:C	14:MN:299:ARG:HG3	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EQ:137:ARG:HH11	29:EQ:202:PEB:HHB1	1.56	0.71
14:MQ:174:ARG:HD3	14:MQ:174:ARG:N	2.06	0.71
8:eR:57:PHE:HZ	7:TR:77:ARG:HA	1.56	0.71
6:OR:65:TYR:CZ	6:OR:66:LEU:CD2	2.74	0.71
6:QR:99:VAL:HG23	6:QR:101:GLY:H	1.56	0.71
6:SR:140:VAL:HG11	6:SR:146:ALA:HA	1.73	0.71
1:X1:237:ALA:HB2	29:Y1:201:PEB:HAC1	1.71	0.71
5:D1:40:ILE:HG13	29:D1:1002:PEB:CBA	2.21	0.71
5:N1:47:ASN:HD21	5:N1:141:LEU:HD21	1.56	0.71
6:S2:105:LEU:HD21	6:S2:159:LEU:HB3	1.71	0.71
6:U2:37:ARG:HG3	6:U2:151:GLU:CD	2.16	0.71
6:U2:65:TYR:CZ	6:U2:66:LEU:CD2	2.73	0.71
7:N3:91:ARG:HH21	9:O3:400:VAL:HG23	1.50	0.71
6:J4:30:ASN:OD1	6:J4:37:ARG:NH2	2.23	0.71
11:D5:260:THR:HG22	7:TK:150:LYS:CG	2.20	0.71
7:m7:8:VAL:HG11	7:m7:23:ASP:CG	2.14	0.71
7:K8:1:MET:CE	7:K8:95:TYR:CZ	2.73	0.71
7:K8:79:MET:CE	7:LO:164:GLU:CD	2.64	0.71
12:E8:185:ALA:HB1	6:bF:67:LYS:CE	2.21	0.71
6:OB:54:GLU:OE1	29:OB:202:PEB:HAC1	1.90	0.71
6:UB:53:LYS:CB	14:MG:100:THR:HG21	2.20	0.71
7:ED:33:ASP:OD1	7:ED:33:ASP:N	2.24	0.71
6:HD:54:GLU:OE2	6:HD:137:ARG:NE	2.20	0.71
7:KD:106:GLU:CD	7:KD:106:GLU:H	1.98	0.71
7:MD:136:ALA:HB2	29:MD:203:PEB:CGC	2.20	0.71
6:EG:21:ASN:HA	6:EG:24:LEU:HG	1.73	0.71
6:GG:21:ASN:HA	6:GG:24:LEU:HG	1.73	0.71
7:RJ:33:ASP:CG	7:RJ:36:LYS:HE3	2.15	0.71
6:kJ:28:GLN:HB2	6:mJ:33:ARG:NH2	2.05	0.71
29:lJ:201:PEB:CGC	16:xJ:255:GLN:HE22	2.04	0.71
7:nJ:88:ILE:HD11	16:xJ:203:VAL:CG2	2.21	0.71
29:tJ:201:PEB:CGC	16:xJ:216:LEU:CD1	2.66	0.71
1:XK:213:GLU:OE1	1:XK:213:GLU:N	2.24	0.71
5:FK:154:SER:HA	5:FK:157:VAL:HG22	1.73	0.71
7:PK:97:LEU:CD1	7:PK:165:VAL:CG2	2.62	0.71
7:gK:7:ARG:HG2	14:MN:98:LEU:CD1	2.21	0.71
7:FL:5:PHE:HZ	7:FL:31:ILE:HG13	1.54	0.71
7:HL:2:LEU:N	7:HL:103:SER:OG	2.22	0.71
6:iL:124:THR:HB	6:iL:163:LEU:CD1	2.20	0.71
21:HP:38:VAL:HG11	25:YP:44:VAL:HG13	1.72	0.71
21:HP:114:GLU:HG2	25:YP:465:LEU:HD11	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:KP:25:ARG:HH12	25:YP:45:SER:H	1.37	0.71
21:qP:67:ARG:NH2	31:xP:1001:CYC:O2A	2.20	0.71
6:AQ:21:ASN:HA	6:AQ:24:LEU:HG	1.73	0.71
8:eR:57:PHE:CZ	6:OR:112:GLY:HA3	2.26	0.71
7:NR:142:ILE:CD1	7:NR:165:VAL:HG11	2.21	0.71
7:PR:142:ILE:CD1	7:PR:165:VAL:HG11	2.21	0.71
7:RR:142:ILE:CD1	7:RR:165:VAL:HG11	2.21	0.71
4:C1:100:VAL:HG21	5:D1:19:LEU:HD12	1.73	0.71
5:N1:5:PHE:HD1	5:N1:27:LEU:CD2	2.04	0.71
6:S1:13:ASP:OD2	7:T1:108:ARG:NH1	2.24	0.71
6:M2:140:VAL:N	6:M2:141:PRO:HD2	2.05	0.71
7:P2:61:CYS:SG	29:P2:202:PEB:CMD	2.79	0.71
7:P2:147:THR:OG1	7:P2:148:GLU:OE1	2.09	0.71
7:T2:142:ILE:CD1	7:T2:165:VAL:HG11	2.21	0.71
6:A3:42:GLU:HG2	7:B3:24:LEU:HD12	1.72	0.71
6:H4:33:ARG:HB3	6:H4:33:ARG:NH1	2.04	0.71
7:I5:79:MET:CE	15:bB:229:LEU:HG	2.19	0.71
7:I8:24:LEU:N	7:I8:24:LEU:HD22	2.05	0.71
6:W9:76:GLN:HE21	7:PR:174:ALA:CB	1.94	0.71
15:bB:341:ALA:CA	15:bB:349:LYS:HD3	2.21	0.71
6:IG:41:ALA:HB1	7:JG:19:VAL:HG23	1.72	0.71
7:DJ:33:ASP:CG	7:DJ:36:LYS:HE3	2.15	0.71
7:HJ:66:LEU:CD1	7:HJ:126:SER:OG	2.37	0.71
7:NJ:5:PHE:CE2	7:NJ:31:ILE:HD11	2.26	0.71
7:ZJ:111:ASN:CG	16:xJ:39:LEU:HD22	2.15	0.71
3:BK:58:HIS:CD2	5:LK:81:ALA:HA	2.26	0.71
4:EK:111:LEU:O	4:EK:111:LEU:HD23	1.91	0.71
7:mK:97:LEU:HD13	7:mK:165:VAL:HG23	1.70	0.71
7:NL:125:ASN:HD22	7:fL:70:GLY:C	1.99	0.71
6:QL:74:GLU:CA	6:QL:78:LYS:HD2	2.21	0.71
16:wL:183:LYS:HG2	16:xL:40:VAL:HG21	1.73	0.71
19:zL:332:LEU:HD23	20:NP:63:PRO:O	1.90	0.71
6:YM:54:GLU:OE1	29:YM:203:PEB:HAC1	1.90	0.71
21:sP:19:LEU:CD1	20:tP:97:ILE:HD12	2.21	0.71
3:B1:16:ARG:NH2	31:N1:1001:CYC:CBB	2.54	0.70
6:O2:145:SER:HA	6:lB:67:LYS:HD3	1.73	0.70
6:U2:99:VAL:HG23	6:U2:101:GLY:H	1.55	0.70
7:N3:91:ARG:NH2	9:O3:400:VAL:HG21	2.04	0.70
10:d4:327:SER:CB	10:dD:338:GLU:HG2	2.19	0.70
10:d4:331:GLN:CG	10:dD:331:GLN:HE22	1.88	0.70
6:D4:30:ASN:OD1	6:D4:37:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M4:7:ARG:HE	7:M4:7:ARG:HA	1.55	0.70
7:M4:60:ILE:HG21	7:M4:67:ILE:HD12	1.71	0.70
3:B9:21:GLU:O	3:B9:21:GLU:HG2	1.90	0.70
7:NB:129:ARG:CG	28:bP:121:HIS:HB3	2.21	0.70
6:IC:14:ALA:CB	18:MC:51:PRO:HG3	2.21	0.70
7:TJ:157:ASP:OD2	25:YP:558:ASN:ND2	2.24	0.70
6:iJ:124:THR:HB	6:iJ:163:LEU:CD1	2.20	0.70
6:GL:122:LEU:HD22	29:GL:201:PEB:HNA	1.54	0.70
15:bM:336:SER:OG	15:bM:337:PRO:HD3	1.90	0.70
6:GM:44:LEU:O	6:GM:48:HIS:HB3	1.91	0.70
7:NM:170:ASP:CB	28:4P:184:THR:HG22	2.21	0.70
25:YP:180:GLU:HG3	25:YP:231:ALA:HB2	1.73	0.70
25:1P:698:VAL:HG23	25:1P:699:SER:H	1.56	0.70
6:MR:99:VAL:HG23	6:MR:101:GLY:H	1.55	0.70
6:SR:142:ARG:HD3	6:SR:143:ASP:OD1	1.90	0.70
6:UR:65:TYR:CZ	6:UR:66:LEU:CD2	2.73	0.70
5:L1:33:GLU:OE1	5:L1:156:LEU:CD1	2.38	0.70
7:i1:3:ASP:OD1	7:i1:99:ALA:HB1	1.91	0.70
6:S2:99:VAL:HG23	6:S2:101:GLY:H	1.55	0.70
6:W2:47:ASN:HD21	29:W2:202:PEB:HMC3	1.56	0.70
9:O3:308:TYR:CD2	4:KI:70:PRO:CD	2.74	0.70
6:F4:33:ARG:NH2	29:I4:202:PEB:OD	2.24	0.70
6:J5:64:ALA:HB3	20:NP:41:GLN:NE2	2.06	0.70
11:D5:219:TYR:CE2	5:HK:152:ASP:CB	2.74	0.70
7:ZB:125:ASN:OD1	7:ZB:126:SER:N	2.24	0.70
6:jB:54:GLU:HG2	29:jB:202:PEB:CAC	2.09	0.70
29:LC:201:PEB:CAB	18:MC:219:SER:HB3	2.21	0.70
10:dD:280:SER:CB	6:WI:70:GLY:N	2.47	0.70
7:MD:7:ARG:HE	7:MD:7:ARG:HA	1.55	0.70
18:ME:312:LEU:HB3	7:dL:62:GLU:O	1.91	0.70
6:AG:137:ARG:HH11	29:AG:202:PEB:HHB1	1.56	0.70
7:BG:97:LEU:HD23	7:BG:168:TYR:HE2	1.55	0.70
2:AI:186:PRO:HB3	2:AI:191:GLU:HB3	1.72	0.70
5:LK:33:GLU:OE1	5:LK:156:LEU:CD1	2.38	0.70
5:NK:5:PHE:HD1	5:NK:27:LEU:CD2	2.04	0.70
6:ML:161:ASN:ND2	7:PL:46:SER:O	2.24	0.70
6:UL:63:TYR:CB	6:UL:66:LEU:HD11	2.20	0.70
6:KM:54:GLU:OE1	29:KM:202:PEB:HAC1	1.90	0.70
6:IO:42:GLU:CD	6:IO:42:GLU:C	2.59	0.70
6:KO:57:ASP:CG	27:3P:169:THR:OG1	2.34	0.70
21:sP:71:MEN:O	21:sP:77:ARG:HD3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:xP:57:LYS:NZ	22:xP:139:GLU:OE1	2.23	0.70
28:4P:228:ILE:HA	28:4P:231:ILE:HG12	1.74	0.70
7:BQ:97:LEU:HD23	7:BQ:168:TYR:HE2	1.55	0.70
6:GQ:137:ARG:HH11	29:GQ:202:PEB:HHB1	1.56	0.70
6:KQ:21:ASN:HA	6:KQ:24:LEU:HG	1.73	0.70
6:UR:138:LEU:CA	29:UR:202:PEB:CMD	2.61	0.70
7:XR:142:ILE:CD1	7:XR:165:VAL:HG11	2.21	0.70
7:e1:97:LEU:HD13	7:e1:165:VAL:HG23	1.70	0.70
8:e2:235:SER:HG	29:e2:401:PEB:C3D	2.02	0.70
29:e2:401:PEB:HAA2	7:P2:82:CYS:SG	2.31	0.70
6:M2:99:VAL:HG23	6:M2:101:GLY:H	1.55	0.70
7:T2:106:GLU:HG2	7:T2:110:LEU:HB2	1.74	0.70
6:W2:9:VAL:HG21	7:X2:1:MET:CE	2.11	0.70
10:d4:167:TYR:HB3	6:D4:14:ALA:O	1.91	0.70
5:J7:77:ARG:HH12	31:J7:1001:CYC:CGA	2.04	0.70
15:bB:319:VAL:HG21	20:KP:79:ALA:C	2.16	0.70
7:JB:8:VAL:HG11	7:JB:27:LEU:HD11	1.74	0.70
7:TB:19:VAL:CG1	7:TB:24:LEU:HD21	2.21	0.70
6:UB:53:LYS:HD3	14:MG:100:THR:CG2	2.17	0.70
6:aB:54:GLU:OE1	29:aB:202:PEB:HAC1	1.90	0.70
10:dD:283:ARG:HG3	7:TI:148:GLU:CG	2.21	0.70
7:BG:141:PHE:HZ	29:BG:203:PEB:H3A1	1.56	0.70
7:RJ:113:LEU:CG	7:RJ:176:ILE:HG22	2.21	0.70
4:CK:156:TYR:O	4:CK:160:THR:HG22	1.91	0.70
29:HK:1002:PEB:HBD1	4:IK:33:ARG:HE	1.56	0.70
6:SK:13:ASP:OD2	7:TK:108:ARG:NH1	2.24	0.70
7:iK:97:LEU:HD13	7:iK:165:VAL:HG23	1.70	0.70
7:iK:97:LEU:CD1	7:iK:165:VAL:CG2	2.62	0.70
6:UM:142:ARG:HG3	14:MQ:112:LEU:O	1.89	0.70
6:WM:54:GLU:OE1	29:WM:202:PEB:HAC1	1.90	0.70
20:CP:15:ALA:HB2	25:YP:492:GLY:HA2	1.73	0.70
7:DQ:137:GLN:HE22	29:DQ:203:PEB:CHA	1.91	0.70
8:e2:111:GLU:OE2	6:W2:114:ARG:CB	2.39	0.70
6:O2:37:ARG:CZ	6:O2:100:GLY:CA	2.60	0.70
6:I3:42:GLU:CD	6:I3:42:GLU:C	2.59	0.70
7:I5:45:VAL:HG12	28:bP:118:LEU:O	1.89	0.70
13:k6:102:TYR:CE1	6:Q7:69:PRO:CD	2.73	0.70
4:K9:52:ILE:HD12	20:vP:68:PRO:HG3	1.70	0.70
29:Q9:202:PEB:CMA	7:PK:147:THR:HG21	2.19	0.70
6:jB:54:GLU:N	6:jB:54:GLU:OE2	2.24	0.70
7:GD:106:GLU:CD	7:GD:106:GLU:H	1.98	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HD:137:ARG:NH1	29:HD:202:PEB:C1C	2.55	0.70
14:MG:255:TYR:O	14:MG:256:THR:O	2.07	0.70
6:iJ:74:GLU:N	6:iJ:78:LYS:HG3	2.06	0.70
7:kK:97:LEU:HD13	7:kK:165:VAL:HG23	1.70	0.70
7:PL:5:PHE:CD2	7:PL:27:LEU:CD2	2.74	0.70
6:oL:10:SER:HB3	7:pL:108:ARG:NH2	2.05	0.70
7:TM:19:VAL:CG1	7:TM:24:LEU:HD21	2.21	0.70
6:lM:67:LYS:HD3	6:OR:145:SER:HA	1.72	0.70
21:IP:131:GLN:HG3	25:YP:658:LEU:HD11	1.73	0.70
20:KP:25:ARG:HH22	25:YP:45:SER:CB	2.03	0.70
21:SP:34:GLY:HA3	20:TP:30:VAL:HG11	1.74	0.70
21:nP:107:ARG:NH1	24:zP:110:LYS:HG2	2.06	0.70
22:xP:38:ARG:O	22:xP:42:ILE:HD12	1.92	0.70
3:B1:58:HIS:CD2	5:L1:81:ALA:HA	2.26	0.70
3:B1:225:VAL:C	3:B1:228:MET:HG2	2.17	0.70
5:H1:152:ASP:CB	11:D8:219:TYR:CZ	2.74	0.70
4:I1:21:ASN:OD1	4:I1:24:LEU:CB	2.39	0.70
6:M2:65:TYR:CZ	6:M2:66:LEU:CD2	2.74	0.70
6:K3:57:ASP:CG	27:aP:169:THR:OG1	2.34	0.70
7:I4:37:ARG:O	7:I4:41:VAL:HG23	1.92	0.70
3:B7:205:ARG:NE	21:QP:57:ALA:O	2.16	0.70
7:a7:100:GLY:O	12:E8:39:PRO:HG2	1.92	0.70
7:k7:147:THR:CG2	7:G8:150:LYS:O	2.35	0.70
7:I8:45:VAL:HG12	28:4P:118:LEU:O	1.92	0.70
7:I8:158:CYS:CB	29:I8:202:PEB:CAA	2.55	0.70
3:B9:174:GLU:OE2	26:ZP:81:PHE:CA	2.39	0.70
4:K9:57:GLN:NE2	5:JI:145:THR:OG1	2.24	0.70
18:MC:45:PHE:CD2	18:MC:248:PRO:HB2	2.27	0.70
18:MC:308:ILE:HD12	7:vJ:64:PRO:HD3	1.70	0.70
10:dD:119:LEU:N	10:dD:119:LEU:HD23	2.07	0.70
10:dD:298:TYR:HE2	5:FI:17:GLU:HB3	1.56	0.70
7:CD:37:ARG:O	7:CD:41:VAL:HG23	1.92	0.70
7:GD:51:MET:HE1	7:GD:137:GLN:HB2	1.74	0.70
6:JD:133:TYR:O	6:JD:137:ARG:HG2	1.92	0.70
7:MD:51:MET:HE1	7:MD:137:GLN:HB2	1.74	0.70
18:ME:312:LEU:HD12	18:ME:313:THR:N	2.05	0.70
7:BG:141:PHE:HZ	29:BG:203:PEB:C3A	2.04	0.70
7:HG:58:GLY:HA2	29:HG:203:PEB:HMD1	0.74	0.70
3:BI:204:ARG:HH21	21:SP:61:LEU:CD2	1.90	0.70
7:TI:68:SER:HB2	7:TI:69:PRO:HD2	1.72	0.70
6:KJ:73:GLY:HA2	6:KJ:78:LYS:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:PJ:5:PHE:CD2	7:PJ:27:LEU:CD2	2.74	0.70
6:kJ:114:ARG:HH22	16:xJ:210:ILE:CD1	2.04	0.70
16:xJ:41:ASN:HD22	16:xJ:41:ASN:N	1.88	0.70
3:BK:92:PRO:HD3	4:GK:15:GLN:HE21	1.57	0.70
7:kK:3:ASP:OD1	7:kK:99:ALA:HB1	1.90	0.70
6:iL:74:GLU:N	6:iL:78:LYS:HG3	2.06	0.70
21:HP:17:LYS:O	25:YP:161:TYR:OH	2.09	0.70
27:aP:72:LEU:HD12	27:aP:73:PRO:HD2	1.71	0.70
21:dP:15:GLN:HE22	23:yP:137:GLN:CG	2.03	0.70
8:eR:57:PHE:CE2	7:TR:77:ARG:O	2.39	0.70
7:TR:142:ILE:CD1	7:TR:165:VAL:HG11	2.21	0.70
7:TR:147:THR:OG1	7:TR:148:GLU:OE1	2.09	0.70
7:XR:61:CYS:SG	29:XR:203:PEB:CMD	2.79	0.70
4:C1:156:TYR:O	4:C1:160:THR:HG22	1.91	0.70
7:R1:3:ASP:OD1	7:R1:99:ALA:HB1	1.90	0.70
7:T1:97:LEU:HD13	7:T1:165:VAL:HG23	1.70	0.70
7:c1:97:LEU:HD13	7:c1:165:VAL:HG23	1.70	0.70
7:g1:97:LEU:HD13	7:g1:165:VAL:HG23	1.70	0.70
6:J4:9:VAL:HG13	7:K4:95:TYR:HE1	1.43	0.70
7:K4:125:ASN:N	7:K4:125:ASN:OD1	2.25	0.70
7:I5:24:LEU:HD13	19:zL:295:LYS:HE2	1.73	0.70
7:m7:23:ASP:OD1	7:m7:23:ASP:O	2.09	0.70
7:K8:1:MET:HE2	7:K8:95:TYR:OH	1.91	0.70
29:L8:203:PEB:HBD1	13:kH:237:ILE:HG22	1.74	0.70
5:N9:166:ARG:NH1	26:ZP:96:VAL:HG21	2.06	0.70
7:m9:23:ASP:OD1	7:m9:23:ASP:O	2.09	0.70
6:GB:44:LEU:O	6:GB:48:HIS:HB3	1.91	0.70
7:VB:85:ASP:OD1	7:VB:85:ASP:N	2.20	0.70
7:CD:23:ASP:N	7:CD:23:ASP:OD1	2.25	0.70
7:MD:37:ARG:O	7:MD:41:VAL:HG23	1.92	0.70
18:ME:221:ALA:CB	18:ME:222:PRO:HD3	2.17	0.70
5:DF:75:THR:HG22	5:DF:76:SER:N	2.04	0.70
7:TF:68:SER:HB2	7:TF:69:PRO:HD2	1.72	0.70
7:FG:62:GLU:OE1	29:FG:203:PEB:CB	2.39	0.70
3:BI:227:GLU:CD	20:vP:60:GLN:HE22	1.94	0.70
5:JI:111:ASN:ND2	27:aP:124:TRP:HZ3	1.90	0.70
6:UJ:70:GLY:C	6:UJ:74:GLU:OE2	2.35	0.70
6:sJ:14:ALA:O	16:xJ:88:GLU:N	2.24	0.70
19:zJ:332:LEU:CA	20:pP:67:SER:OG	2.39	0.70
4:IK:21:ASN:OD1	4:IK:24:LEU:CB	2.39	0.70
6:jK:157:ASP:OD2	7:mK:46:SER:CB	2.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AL:138:LEU:HD11	6:AL:144:MET:HE3	1.72	0.70
6:OL:68:ASN:CG	6:OL:71:GLU:CD	2.60	0.70
19:ZL:363:ARG:CD	21:LP:62:TYR:CG	2.54	0.70
6:GN:30:ASN:O	6:GN:34:SER:HB3	1.92	0.70
22:VP:38:ARG:O	22:VP:42:ILE:HD12	1.92	0.70
27:aP:136:THR:HG22	27:aP:138:ALA:H	1.55	0.70
25:1P:180:GLU:HG3	25:1P:231:ALA:HB2	1.73	0.70
6:EQ:21:ASN:HA	6:EQ:24:LEU:HG	1.73	0.70
6:SR:65:TYR:CZ	6:SR:66:LEU:CD2	2.74	0.70
6:SR:85:ASP:OD1	29:SR:201:PEB:CHC	2.39	0.70
7:TR:92:TYR:CD2	7:TR:109:CYS:SG	2.84	0.70
6:O2:65:TYR:CZ	6:O2:66:LEU:CD2	2.74	0.70
7:P2:142:ILE:CD1	7:P2:165:VAL:HG11	2.21	0.70
6:U2:48:HIS:O	6:U2:52:VAL:CG2	2.40	0.70
7:K4:157:ASP:OD1	7:K4:159:THR:N	2.21	0.70
7:I5:5:PHE:HD2	28:bP:130:LEU:HB3	1.56	0.70
7:I5:24:LEU:HD22	7:I5:24:LEU:H	1.55	0.70
7:I5:74:TYR:CD1	15:bB:238:ARG:NH1	2.59	0.70
7:I8:79:MET:CE	15:bM:229:LEU:HG	2.21	0.70
3:B9:227:GLU:HG2	20:PP:52:LYS:NZ	2.07	0.70
7:m9:8:VAL:HG12	7:m9:23:ASP:OD2	1.92	0.70
15:bB:341:ALA:HB1	15:bB:349:LYS:CE	2.22	0.70
15:bB:376:GLU:CB	21:MP:64:ASP:OD2	2.39	0.70
7:ID:33:ASP:OD1	7:ID:33:ASP:N	2.24	0.70
7:ID:87:GLU:OE1	7:ID:87:GLU:N	2.19	0.70
7:KD:7:ARG:HE	7:KD:7:ARG:HA	1.55	0.70
2:AF:186:PRO:HB3	2:AF:191:GLU:HB3	1.72	0.70
2:AF:200:ARG:HH21	7:iF:91:ARG:HH22	1.37	0.70
5:Nf:63:GLN:NE2	7:JO:177:SER:O	2.24	0.70
6:WF:9:VAL:HG21	7:YF:1:MET:SD	2.32	0.70
7:FG:57:SER:C	29:FG:203:PEB:HMD2	2.16	0.70
7:FG:57:SER:C	29:FG:203:PEB:CMD	2.65	0.70
29:FG:201:PEB:HHC2	14:MG:181:TYR:CE2	2.26	0.70
6:GG:114:ARG:HD2	6:IG:114:ARG:NH1	2.07	0.70
7:JG:108:ARG:HH11	14:MG:257:THR:HG23	1.51	0.70
6:KG:137:ARG:HH11	29:KG:202:PEB:HHB1	1.56	0.70
6:WI:9:VAL:HG21	7:YI:1:MET:SD	2.32	0.70
7:VJ:154:ALA:CB	7:NO:70:GLY:C	2.58	0.70
6:kJ:147:GLN:OE1	29:nJ:202:PEB:HMC2	1.91	0.70
5:JK:47:ASN:HD21	5:JK:141:LEU:CD2	2.05	0.70
6:fK:157:ASP:OD2	7:iK:46:SER:HB2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WL:71:GLU:HA	6:WL:71:GLU:OE2	1.90	0.70
6:IM:53:LYS:CE	6:IM:53:LYS:HA	2.20	0.70
20:AP:97:ILE:HD12	21:BP:19:LEU:HD13	1.74	0.70
21:nP:27:LEU:HD13	22:xP:97:LEU:HD11	1.72	0.70
27:3P:136:THR:HG22	27:3P:138:ALA:H	1.55	0.70
6:AQ:25:GLU:HG2	6:CQ:37:ARG:HD2	1.72	0.70
6:KQ:137:ARG:HH11	29:KQ:202:PEB:HHB1	1.56	0.70
8:eR:64:LEU:HD11	7:TR:77:ARG:NH1	2.07	0.70
6:MR:65:TYR:CZ	6:MR:66:LEU:CD2	2.74	0.70
5:F1:154:SER:HA	5:F1:157:VAL:HG22	1.73	0.70
4:M1:110:TYR:CE1	5:N1:13:ASP:OD2	2.43	0.70
6:U1:153:SER:O	6:U1:157:ASP:OD1	2.10	0.70
6:O2:138:LEU:CD1	6:O2:144:MET:HE3	2.21	0.70
7:E4:51:MET:HE1	7:E4:137:GLN:HB2	1.74	0.70
7:E4:106:GLU:CD	7:E4:106:GLU:H	1.98	0.70
7:K4:147:THR:HG23	29:K4:203:PEB:O1B	1.92	0.70
7:L5:104:VAL:HG21	4:I7:68:GLN:NE2	2.07	0.70
5:L7:18:PHE:CD1	20:TP:67:SER:OG	2.45	0.70
6:IA:38:LEU:HD23	7:JA:28:LYS:HE3	1.73	0.70
15:bB:263:PRO:O	15:bB:267:THR:HG23	1.91	0.70
6:HD:33:ARG:HA	6:HD:33:ARG:NH2	2.06	0.70
7:ID:125:ASN:OD1	7:ID:125:ASN:N	2.25	0.70
4:CF:33:ARG:HH12	29:NF:1002:PEB:HBD1	0.54	0.70
5:JF:135:LYS:NZ	27:3P:67:GLY:C	2.50	0.70
6:AG:21:ASN:HA	6:AG:24:LEU:HG	1.73	0.70
7:HG:50:CYS:C	29:HG:203:PEB:HAA2	2.08	0.70
7:PJ:42:ASN:O	7:PJ:46:SER:OG	2.08	0.70
6:gJ:68:ASN:HD22	6:gJ:71:GLU:CD	1.88	0.70
6:kJ:14:ALA:O	16:xJ:187:ARG:HD3	1.92	0.70
29:tJ:201:PEB:C3D	16:xJ:220:TYR:CD2	2.75	0.70
5:HK:41:VAL:HG21	5:HK:98:ILE:HG23	1.70	0.70
7:VK:97:LEU:HD13	7:VK:165:VAL:HG23	1.70	0.70
6:ML:140:VAL:HG21	6:ML:146:ALA:HA	1.72	0.70
6:kL:68:ASN:CG	6:kL:71:GLU:CD	2.60	0.70
6:IN:37:ARG:CZ	6:IN:100:GLY:HA2	2.22	0.70
21:hP:107:ARG:HD3	25:1P:580:THR:O	1.91	0.70
7:TR:61:CYS:SG	29:TR:203:PEB:CMD	2.79	0.70
7:TR:106:GLU:HG2	7:TR:110:LEU:HB2	1.74	0.70
5:N1:47:ASN:HD21	5:N1:141:LEU:CD2	2.05	0.70
7:T2:106:GLU:HG2	7:T2:110:LEU:CD1	2.20	0.70
7:G4:37:ARG:O	7:G4:41:VAL:HG23	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I4:23:ASP:OD1	7:I4:23:ASP:N	2.25	0.70
4:C9:57:GLN:NE2	4:GI:61:ASN:HB3	2.07	0.70
4:K9:50:ARG:NH1	3:BI:228:MET:HG3	2.07	0.70
18:MC:312:LEU:HD12	18:MC:313:THR:N	2.06	0.70
3:BF:226:GLN:HB3	5:JF:151:GLY:O	1.92	0.70
7:FG:51:MET:HA	29:FG:203:PEB:HAA2	1.73	0.70
7:HG:58:GLY:CA	29:HG:203:PEB:HMD3	2.21	0.70
6:AJ:138:LEU:HD11	6:AJ:144:MET:HE3	1.72	0.70
3:BK:207:ARG:HH12	3:BK:212:GLN:H	1.34	0.70
6:OL:28:GLN:OE1	6:QL:33:ARG:NE	2.25	0.70
29:PL:202:PEB:OD	6:QL:33:ARG:CD	2.39	0.70
6:UL:68:ASN:CG	6:UL:71:GLU:CD	2.60	0.70
6:MM:54:GLU:OE1	29:MM:202:PEB:HAC1	1.90	0.70
6:FM:54:GLU:OE1	29:FM:202:PEB:HAC1	1.90	0.70
6:AO:42:GLU:OE2	7:BO:24:LEU:CD1	2.39	0.70
7:NO:83:LEU:HB2	9:OO:402:ILE:HG13	1.72	0.70
7:LQ:56:VAL:O	7:LQ:60:ILE:CG2	2.35	0.70
6:M2:139:CYS:HB3	29:M2:202:PEB:HBA2	0.70	0.70
7:R2:147:THR:OG1	7:R2:148:GLU:OE1	2.09	0.70
7:T2:61:CYS:SG	29:T2:203:PEB:CMD	2.79	0.70
6:I3:142:ARG:O	6:I3:144:MET:N	2.25	0.70
7:M4:37:ARG:O	7:M4:41:VAL:HG23	1.92	0.70
7:C5:17:ALA:O	11:D5:264:SER:HB3	1.92	0.70
3:B7:21:GLU:HG2	3:B7:21:GLU:O	1.90	0.70
4:C7:57:GLN:NE2	4:GF:61:ASN:HB3	2.07	0.70
2:A9:48:ARG:NH2	7:Y9:108:ARG:O	2.24	0.70
4:M9:5:ILE:CB	5:N9:3:ASP:OD2	2.33	0.70
6:EA:30:ASN:O	6:EA:34:SER:HB3	1.90	0.70
6:GB:34:SER:OG	7:HB:31:ILE:HD12	1.92	0.70
18:MC:65:LYS:O	18:MC:66:ASP:C	2.35	0.70
10:dD:283:ARG:CB	7:TI:148:GLU:CD	2.65	0.70
6:JD:133:TYR:O	6:JD:137:ARG:CG	2.39	0.70
18:ME:232:MET:CG	18:ME:236:ASP:CB	2.68	0.70
18:ME:242:LYS:CB	29:SI:202:PEB:O1B	2.36	0.70
18:ME:255:LYS:O	18:ME:256:THR:CG2	2.40	0.70
6:CG:21:ASN:HA	6:CG:24:LEU:HG	1.73	0.70
6:KG:21:ASN:HA	6:KG:24:LEU:HG	1.73	0.70
6:EJ:68:ASN:CG	6:EJ:71:GLU:CD	2.60	0.70
6:QJ:74:GLU:CA	6:QJ:78:LYS:HD2	2.21	0.70
6:mJ:68:ASN:CG	6:mJ:71:GLU:CD	2.60	0.70
7:gK:3:ASP:OD1	7:gK:99:ALA:HB1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IL:138:LEU:HG	6:IL:138:LEU:O	1.90	0.70
28:bP:228:ILE:HA	28:bP:231:ILE:HG12	1.74	0.70
6:IQ:137:ARG:HH11	29:IQ:202:PEB:HBB1	1.56	0.70
14:MQ:96:LYS:HD3	14:MQ:96:LYS:C	2.17	0.70
29:eR:401:PEB:HMA1	7:PR:59:MET:HE1	1.73	0.70
1:X1:325:VAL:HG23	4:C1:112:VAL:O	1.91	0.69
5:J1:12:ALA:CB	5:J1:19:LEU:HD23	2.21	0.69
5:L1:36:GLN:HE21	29:L1:1002:PEB:HMB3	1.54	0.69
6:S2:118:ARG:HH11	6:U2:114:ARG:NH1	1.90	0.69
6:S2:142:ARG:NH2	29:S2:202:PEB:CHA	2.55	0.69
7:T2:92:TYR:CD2	7:T2:109:CYS:SG	2.84	0.69
6:U2:139:CYS:SG	29:U2:202:PEB:HAA2	2.28	0.69
7:D3:38:LEU:HB3	29:D3:202:PEB:CMD	2.22	0.69
7:C4:58:GLY:CA	29:C4:203:PEB:C2D	2.70	0.69
6:F4:30:ASN:OD1	6:F4:37:ARG:NH2	2.24	0.69
7:I4:51:MET:HE1	7:I4:137:GLN:HB2	1.74	0.69
6:J4:133:TYR:O	6:J4:137:ARG:HG2	1.92	0.69
5:F7:32:LYS:HD3	5:F7:32:LYS:C	2.17	0.69
5:H9:57:ARG:HD2	13:kH:198:MET:SD	2.31	0.69
6:GB:159:LEU:HD11	6:GB:163:LEU:HD12	1.73	0.69
6:QB:54:GLU:OE1	29:QB:204:PEB:HMC2	1.91	0.69
6:UB:142:ARG:CD	14:MG:112:LEU:C	2.62	0.69
6:IC:14:ALA:HB3	18:MC:51:PRO:HD3	1.70	0.69
7:ED:37:ARG:O	7:ED:41:VAL:HG23	1.92	0.69
6:HD:30:ASN:OD1	6:HD:37:ARG:NH2	2.23	0.69
6:JD:9:VAL:CG1	7:KD:95:TYR:HD1	1.99	0.69
18:ME:261:VAL:HG21	6:SI:68:ASN:HA	1.73	0.69
7:BG:136:ALA:HB3	29:BG:203:PEB:O2C	1.92	0.69
7:FG:47:ASN:HB3	7:FG:50:CYS:HB3	1.74	0.69
6:IG:137:ARG:HH11	29:IG:202:PEB:HBB1	1.56	0.69
7:JG:47:ASN:HB3	7:JG:50:CYS:HB3	1.74	0.69
6:WI:9:VAL:HG22	7:YI:1:MET:HE2	1.75	0.69
6:WJ:71:GLU:HA	6:WJ:71:GLU:OE2	1.90	0.69
6:uJ:68:ASN:CG	6:uJ:71:GLU:CD	2.60	0.69
6:QL:68:ASN:CG	6:QL:71:GLU:CD	2.60	0.69
19:zL:332:LEU:HD23	20:NP:64:ASP:CA	2.20	0.69
6:CM:3:SER:O	6:CM:7:THR:OG1	2.08	0.69
7:gM:83:LEU:HD12	6:jM:116:VAL:HG12	1.74	0.69
21:LP:34:GLY:HA3	22:VP:30:LEU:HD13	1.73	0.69
6:CQ:137:ARG:HH11	29:CQ:202:PEB:HBB1	1.56	0.69
7:DQ:47:ASN:HB3	7:DQ:50:CYS:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IQ:41:ALA:HB1	7:JQ:19:VAL:HG23	1.72	0.69
6:OR:37:ARG:CZ	6:OR:100:GLY:CA	2.60	0.69
6:OR:156:LEU:O	6:OR:160:ILE:HD12	1.92	0.69
7:RR:61:CYS:SG	29:RR:203:PEB:CMD	2.79	0.69
4:C1:40:ALA:HB2	4:C1:146:VAL:CG1	2.22	0.69
4:G1:108:ASP:HA	4:G1:112:VAL:CG2	2.22	0.69
6:O1:5:ILE:CG2	7:P1:3:ASP:OD2	2.41	0.69
8:e2:77:PHE:CG	8:e2:84:LYS:NZ	2.53	0.69
6:Q2:99:VAL:HG23	6:Q2:101:GLY:H	1.55	0.69
7:X2:61:CYS:SG	29:X2:202:PEB:CMD	2.79	0.69
6:A3:42:GLU:OE2	7:B3:24:LEU:CD1	2.39	0.69
7:N3:91:ARG:HH21	9:O3:400:VAL:HG21	1.54	0.69
6:B4:25:GLU:CD	6:D4:33:ARG:HG3	2.17	0.69
7:C4:79:MET:HB3	6:F4:116:VAL:HG11	1.74	0.69
6:D4:142:ARG:HG3	6:D4:143:ASP:N	2.07	0.69
7:E4:23:ASP:OD1	7:E4:23:ASP:N	2.25	0.69
6:F4:43:LYS:HD3	6:F4:143:ASP:O	1.92	0.69
7:G4:23:ASP:OD1	7:G4:23:ASP:N	2.25	0.69
7:G4:51:MET:HE1	7:G4:137:GLN:HB2	1.74	0.69
7:G4:58:GLY:HA2	29:G4:203:PEB:HMD3	1.74	0.69
7:K4:23:ASP:OD1	7:K4:23:ASP:N	2.25	0.69
6:UB:53:LYS:CA	14:MG:100:THR:HG21	2.22	0.69
18:MC:255:LYS:O	18:MC:256:THR:CG2	2.40	0.69
7:CD:51:MET:HE1	7:CD:137:GLN:HB2	1.74	0.69
6:FD:142:ARG:HG3	6:FD:143:ASP:N	2.07	0.69
18:ME:236:ASP:CA	29:SI:202:PEB:OA	2.39	0.69
6:jF:49:GLU:OE1	6:jF:49:GLU:HA	1.90	0.69
7:FG:51:MET:CA	29:FG:203:PEB:HAA2	2.22	0.69
7:FG:54:ASP:HB2	29:FG:203:PEB:HBA1	1.74	0.69
6:OI:28:GLN:HG2	6:QI:33:ARG:HD3	1.74	0.69
6:aJ:68:ASN:CG	6:aJ:71:GLU:CD	2.60	0.69
7:lJ:111:ASN:O	16:xJ:176:TYR:HD1	1.63	0.69
6:uJ:14:ALA:O	16:xJ:74:GLN:CA	2.40	0.69
7:cK:3:ASP:OD1	7:cK:99:ALA:HB1	1.90	0.69
7:iK:3:ASP:OD1	7:iK:99:ALA:HB1	1.91	0.69
6:eL:68:ASN:CG	6:eL:71:GLU:CD	2.60	0.69
6:mL:68:ASN:CG	6:mL:71:GLU:CD	2.60	0.69
7:nL:108:ARG:HB3	16:XL:108:ARG:HH22	1.57	0.69
19:zL:343:GLN:HE21	20:GP:61:ARG:CA	1.85	0.69
6:GM:34:SER:OG	7:HM:31:ILE:HD12	1.92	0.69
6:QM:54:GLU:OE1	29:QM:204:PEB:HMC2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UM:142:ARG:HG2	14:MQ:112:LEU:O	1.90	0.69
7:FN:108:ARG:O	14:MN:184:ARG:NH2	2.25	0.69
21:LP:71:MEN:O	21:LP:71:MEN:CE2	2.37	0.69
20:PP:15:ALA:HA	21:UP:90:ARG:CZ	2.21	0.69
21:QP:1:MET:HE2	21:QP:103:ILE:HD12	1.74	0.69
21:UP:1:MET:HE2	21:UP:103:ILE:HD12	1.75	0.69
7:BQ:47:ASN:HB3	7:BQ:50:CYS:HB3	1.74	0.69
7:FQ:47:ASN:HB3	7:FQ:50:CYS:HB3	1.74	0.69
6:GQ:21:ASN:HA	6:GQ:24:LEU:HG	1.73	0.69
8:eR:256:SER:HB3	7:TR:115:GLU:OE2	1.92	0.69
3:B1:20:PHE:CE1	4:K1:117:GLU:CD	2.70	0.69
4:E1:49:GLN:C	6:Q7:53:LYS:HZ2	1.93	0.69
8:e2:147:PHE:CZ	8:e2:163:HIS:CE1	2.80	0.69
7:N2:142:ILE:CD1	7:N2:165:VAL:HG11	2.21	0.69
7:R2:61:CYS:SG	29:R2:203:PEB:CMD	2.79	0.69
7:T2:147:THR:OG1	7:T2:148:GLU:OE1	2.09	0.69
10:d4:119:LEU:N	10:d4:119:LEU:HD23	2.07	0.69
7:C4:133:ILE:HD11	29:C4:203:PEB:C4C	2.22	0.69
7:E4:91:ARG:O	7:E4:94:SER:OG	2.09	0.69
7:DA:109:CYS:O	7:DA:113:LEU:CG	2.40	0.69
7:LA:109:CYS:O	7:LA:113:LEU:CG	2.40	0.69
15:bB:341:ALA:HB1	20:KP:68:PRO:CD	2.22	0.69
15:bB:341:ALA:HB1	20:KP:68:PRO:HG2	1.70	0.69
7:gB:83:LEU:HD12	6:jB:116:VAL:HG12	1.74	0.69
7:ID:106:GLU:CD	7:ID:106:GLU:H	1.98	0.69
18:ME:144:ARG:H	18:ME:144:ARG:NH2	1.79	0.69
18:ME:232:MET:HE1	29:SI:202:PEB:C3B	2.15	0.69
7:aF:1:MET:HG2	7:aF:104:VAL:HG23	0.83	0.69
6:AG:2:LYS:HZ1	30:MG:403:PUB:CAB	1.85	0.69
13:kH:172:LYS:HB3	13:kH:172:LYS:NZ	2.05	0.69
7:nJ:108:ARG:HA	16:xJ:197:LEU:CD2	2.22	0.69
4:IK:137:LYS:O	4:IK:140:HIS:NE2	2.23	0.69
7:FL:157:ASP:HB2	25:1P:638:ASN:CG	2.17	0.69
6:ML:68:ASN:CG	6:ML:71:GLU:CD	2.60	0.69
6:IN:38:LEU:HD23	7:JN:28:LYS:HE3	1.73	0.69
21:DP:15:GLN:HE22	23:WP:137:GLN:CG	2.05	0.69
21:QP:27:LEU:HD13	20:RP:97:ILE:HG21	1.74	0.69
21:fP:13:ASP:CG	20:gP:107:ILE:HD13	2.17	0.69
21:qP:6:THR:HG23	28:4P:50:TYR:CZ	2.27	0.69
7:LQ:58:GLY:C	29:LQ:202:PEB:HMC2	2.16	0.69
7:P1:3:ASP:OD1	7:P1:99:ALA:C	2.35	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:37:ARG:O	7:C4:41:VAL:HG23	1.92	0.69
7:E4:133:ILE:HG13	29:E4:203:PEB:CBC	2.14	0.69
7:M4:23:ASP:N	7:M4:23:ASP:OD1	2.25	0.69
7:G5:150:LYS:O	7:k9:147:THR:HG22	1.71	0.69
12:E5:40:VAL:CB	7:a9:26:ALA:HB1	2.21	0.69
6:l7:5:ILE:O	6:l7:9:VAL:HG22	1.93	0.69
7:GD:23:ASP:N	7:GD:23:ASP:OD1	2.25	0.69
6:HD:142:ARG:HG3	6:HD:143:ASP:N	2.07	0.69
7:ID:104:VAL:CG2	7:ID:108:ARG:HD2	2.22	0.69
6:JD:142:ARG:HG3	6:JD:143:ASP:N	2.07	0.69
3:BF:227:GLU:HB2	5:JF:151:GLY:HA2	1.74	0.69
7:BG:47:ASN:HB3	7:BG:50:CYS:HB3	1.74	0.69
7:BG:141:PHE:HE2	29:BG:203:PEB:CHA	2.05	0.69
7:LG:58:GLY:HA3	29:LG:203:PEB:HMD2	1.74	0.69
13:kH:93:MET:HE1	13:kH:142:SER:HB2	1.75	0.69
13:kH:211:PRO:O	13:kH:214:ASN:ND2	2.25	0.69
3:BI:204:ARG:HH22	21:SP:57:ALA:CB	2.05	0.69
7:NJ:125:ASN:HD22	7:fJ:70:GLY:C	1.99	0.69
6:eJ:68:ASN:CG	6:eJ:71:GLU:CD	2.60	0.69
4:GK:108:ASP:HA	4:GK:112:VAL:CG2	2.22	0.69
7:PK:3:ASP:OD1	7:PK:99:ALA:C	2.35	0.69
6:mL:94:ASN:ND2	7:nL:19:VAL:O	2.17	0.69
19:zL:343:GLN:NE2	20:GP:61:ARG:CB	2.54	0.69
17:BM:81:ALA:CB	7:RM:115:GLU:OE2	2.40	0.69
7:ZM:125:ASN:OD1	7:ZM:126:SER:N	2.24	0.69
7:FN:108:ARG:HH12	14:MN:188:MET:HG3	1.55	0.69
14:MN:102:LYS:O	14:MN:103:ARG:NE	2.25	0.69
6:CO:42:GLU:CD	6:CO:42:GLU:C	2.60	0.69
31:UP:1001:CYC:O2A	25:YP:702:ARG:NH1	2.24	0.69
21:hP:128:GLN:HE22	23:yP:72:ASN:C	2.01	0.69
21:kP:1:MET:HE2	21:kP:103:ILE:HD12	1.75	0.69
28:4P:225:ARG:HD3	28:4P:225:ARG:C	2.16	0.69
6:IQ:21:ASN:HA	6:IQ:24:LEU:HG	1.73	0.69
6:SR:118:ARG:HH11	6:UR:114:ARG:NH1	1.90	0.69
7:m1:97:LEU:HD13	7:m1:165:VAL:HG23	1.70	0.69
7:K4:106:GLU:H	7:K4:106:GLU:CD	1.98	0.69
17:BB:81:ALA:CB	7:RB:115:GLU:OE2	2.40	0.69
7:DC:77:ARG:HH11	18:MC:44:PRO:HB2	1.57	0.69
6:DD:142:ARG:HG3	6:DD:143:ASP:N	2.07	0.69
7:ID:37:ARG:O	7:ID:41:VAL:HG23	1.92	0.69
7:MD:125:ASN:N	7:MD:125:ASN:OD1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EE:33:ARG:HB2	6:GE:25:GLU:OE2	1.93	0.69
7:LE:120:LEU:HG	18:ME:215:THR:HG22	1.75	0.69
7:BG:97:LEU:CD2	7:BG:168:TYR:CD2	2.76	0.69
6:CG:137:ARG:HH11	29:CG:202:PEB:HHB1	1.56	0.69
13:kH:23:ALA:HB1	13:kH:26:VAL:HG23	1.75	0.69
6:oJ:68:ASN:CG	6:oJ:71:GLU:CD	2.60	0.69
5:JK:39:ASP:OD2	29:JK:1002:PEB:HHC1	1.91	0.69
6:WK:25:GLU:HG2	6:ZK:33:ARG:HG3	1.74	0.69
7:HL:132:SER:O	7:HL:135:LYS:HB3	1.92	0.69
6:YL:68:ASN:CG	6:YL:71:GLU:CD	2.60	0.69
7:JM:8:VAL:HG11	7:JM:27:LEU:HD11	1.74	0.69
7:NM:129:ARG:HG3	28:4P:121:HIS:HB3	1.74	0.69
21:BP:1:MET:HE2	21:BP:103:ILE:HD12	1.74	0.69
21:IP:72:MET:HA	21:IP:77:ARG:HB3	1.74	0.69
7:BQ:50:CYS:SG	29:BQ:203:PEB:HBA1	2.27	0.69
6:CQ:2:LYS:HZ2	14:MQ:138:SER:CB	2.05	0.69
8:eR:221:ASN:HD21	7:TR:113:LEU:HD12	1.57	0.69
29:eR:401:PEB:CAA	7:PR:82:CYS:SG	2.81	0.69
5:D1:39:ASP:CG	29:D1:1002:PEB:HMD1	2.17	0.69
4:I1:21:ASN:CG	4:I1:24:LEU:HD12	2.13	0.69
5:L1:20:SER:H	5:L1:23:GLN:NE2	1.91	0.69
6:f1:157:ASP:OD2	7:i1:46:SER:HB2	1.92	0.69
8:e2:111:GLU:OE2	6:W2:114:ARG:HB3	1.93	0.69
6:M2:142:ARG:HD3	6:M2:143:ASP:OD1	1.90	0.69
6:O2:156:LEU:C	6:O2:160:ILE:HD12	2.18	0.69
6:G3:24:LEU:HD12	6:G3:24:LEU:C	2.18	0.69
7:M4:87:GLU:OE1	7:M4:87:GLU:N	2.18	0.69
2:A7:34:LEU:CD2	7:Y7:87:GLU:CD	2.57	0.69
7:I8:24:LEU:HD22	7:I8:24:LEU:H	1.55	0.69
12:E8:72:MET:HE1	5:HF:145:THR:HG22	1.74	0.69
12:E8:183:TYR:HE2	6:bF:83:TYR:HB2	1.53	0.69
5:F9:65:GLN:HE22	7:R9:70:GLY:HA3	1.57	0.69
6:IA:37:ARG:CZ	6:IA:100:GLY:HA2	2.22	0.69
6:QB:54:GLU:CD	29:QB:204:PEB:C2C	2.65	0.69
7:eB:85:ASP:OD2	29:eB:201:PEB:HHC1	1.93	0.69
18:MC:54:GLN:HG2	18:MC:185:ARG:HH12	1.57	0.69
7:CD:7:ARG:HE	7:CD:7:ARG:HA	1.55	0.69
18:ME:196:ASP:O	18:ME:237:PHE:CE1	2.45	0.69
3:BF:210:GLU:HA	27:3P:71:VAL:HG23	1.72	0.69
6:SF:9:VAL:CG2	7:TF:1:MET:CE	2.71	0.69
6:CG:28:GLN:NE2	6:CG:32:GLN:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HJ:2:LEU:N	7:HJ:103:SER:OG	2.22	0.69
7:HJ:132:SER:O	7:HJ:135:LYS:HB3	1.92	0.69
6:IJ:72:ALA:HB1	29:IJ:201:PEB:C1A	2.23	0.69
6:MJ:68:ASN:CG	6:MJ:71:GLU:CD	2.60	0.69
6:YJ:68:ASN:CG	6:YJ:71:GLU:CD	2.60	0.69
6:gJ:68:ASN:CG	6:gJ:71:GLU:CD	2.60	0.69
6:kJ:14:ALA:O	16:xJ:187:ARG:CB	2.40	0.69
29:pJ:202:PEB:HAD1	6:qJ:33:ARG:CZ	2.17	0.69
4:CK:40:ALA:HB2	4:CK:146:VAL:CG1	2.22	0.69
5:HK:35:ASN:ND2	29:HK:1002:PEB:C2C	2.56	0.69
6:EL:68:ASN:CG	6:EL:71:GLU:CD	2.60	0.69
6:IL:72:ALA:HB1	29:IL:201:PEB:C1A	2.23	0.69
6:UL:70:GLY:C	6:UL:74:GLU:OE2	2.35	0.69
6:mL:31:ILE:HA	7:nL:31:ILE:HG23	1.75	0.69
6:IN:32:GLN:H	6:IN:32:GLN:NE2	1.90	0.69
20:lP:151:PHE:CD2	20:pP:20:PRO:HB3	2.28	0.69
21:oP:60:LEU:CD2	21:oP:65:ILE:HD11	2.19	0.69
20:rP:56:GLN:O	20:rP:60:GLN:HG3	1.91	0.69
6:IQ:2:LYS:HZ3	14:MQ:254:VAL:N	1.90	0.69
6:OR:156:LEU:C	6:OR:160:ILE:HD12	2.18	0.69
5:J1:39:ASP:OD2	29:J1:1002:PEB:HHC1	1.91	0.69
6:f1:28:GLN:HG2	6:h1:33:ARG:HH11	0.86	0.69
8:e2:235:SER:HG	29:e2:401:PEB:CAD	2.02	0.69
7:N2:147:THR:OG1	7:N2:148:GLU:OE1	2.09	0.69
6:W2:138:LEU:HD22	6:W2:144:MET:HE3	1.74	0.69
7:N3:71:GLY:HA2	7:VL:155:ALA:H	1.57	0.69
7:C4:51:MET:HE1	7:C4:137:GLN:HB2	1.74	0.69
6:J4:142:ARG:HG3	6:J4:143:ASP:N	2.07	0.69
13:k6:93:MET:HE1	13:k6:142:SER:HB2	1.75	0.69
13:k6:255:LEU:O	13:k6:262:SER:OG	2.11	0.69
12:E8:162:ASN:CG	29:kF:203:PEB:O1B	2.35	0.69
5:F9:18:PHE:CE1	8:eR:300:VAL:CG1	2.76	0.69
15:bB:370:TYR:CE2	21:MP:58:LYS:O	2.46	0.69
7:TB:62:GLU:OE2	7:TB:129:ARG:HG3	1.93	0.69
6:KC:44:LEU:CD2	29:KC:203:PEB:HBD2	2.22	0.69
7:ID:23:ASP:OD1	7:ID:23:ASP:N	2.25	0.69
7:MD:50:CYS:CB	29:MD:203:PEB:HMA1	2.21	0.69
18:ME:144:ARG:HG2	18:ME:148:GLU:OE2	1.89	0.69
5:HF:75:THR:OG1	5:HF:78:ARG:N	2.21	0.69
7:BG:136:ALA:HB3	29:BG:203:PEB:CGC	2.22	0.69
7:BG:141:PHE:CE2	29:BG:203:PEB:CHA	2.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:224:MET:CE	5:JI:153:CYS:H	2.06	0.69
5:JI:135:LYS:HZ2	27:aP:67:GLY:C	2.00	0.69
5:JI:150:ILE:O	5:JI:150:ILE:HD12	1.93	0.69
7:HJ:72:MEN:CE2	7:HJ:122:VAL:HG22	2.18	0.69
6:QJ:68:ASN:CG	6:QJ:71:GLU:CD	2.60	0.69
6:kJ:68:ASN:CG	6:kJ:71:GLU:CD	2.60	0.69
6:YL:147:GLN:NE2	29:bL:202:PEB:CMC	2.55	0.69
7:DN:109:CYS:O	7:DN:113:LEU:CG	2.40	0.69
21:SP:1:MET:HE2	21:SP:103:ILE:HD12	1.75	0.69
6:GQ:114:ARG:HD2	6:IQ:114:ARG:NH1	2.07	0.69
7:PR:77:ARG:NH2	6:WR:107:GLU:OE1	2.26	0.69
1:X1:213:GLU:N	1:X1:213:GLU:OE1	2.24	0.69
5:J1:47:ASN:HD21	5:J1:141:LEU:CD2	2.05	0.69
6:C3:42:GLU:CD	6:C3:42:GLU:C	2.60	0.69
7:J3:177:SER:O	5:NI:63:GLN:NE2	2.25	0.69
10:d4:312:ALA:O	10:d4:316:GLN:NE2	2.26	0.69
6:B4:75:ASN:HD21	6:B4:77:GLU:HG2	1.58	0.69
7:C4:106:GLU:CD	7:C4:106:GLU:H	1.98	0.69
29:L5:203:PEB:OD	13:k6:237:ILE:CG2	2.32	0.69
7:m7:8:VAL:HG12	7:m7:23:ASP:OD2	1.92	0.69
4:K9:50:ARG:HH12	3:BI:228:MET:HG3	1.56	0.69
6:U9:69:PRO:O	8:eR:275:GLY:C	2.36	0.69
6:W9:142:ARG:NH1	29:W9:202:PEB:C4B	2.51	0.69
7:m9:39:ASP:OD1	7:m9:153:PHE:CE1	2.46	0.69
7:HB:125:ASN:HD21	7:ZB:70:GLY:HA3	1.54	0.69
7:LC:116:THR:HB	18:MC:213:THR:OG1	1.93	0.69
18:MC:234:GLU:OE1	18:MC:234:GLU:N	2.19	0.69
18:MC:285:TYR:O	5:DF:18:PHE:HD2	1.76	0.69
6:BD:9:VAL:CG1	7:CD:95:TYR:CE1	2.71	0.69
7:CD:79:MET:HB3	6:FD:116:VAL:HG11	1.74	0.69
7:ID:51:MET:HE1	7:ID:137:GLN:HB2	1.74	0.69
7:ID:58:GLY:O	29:ID:203:PEB:CBD	2.40	0.69
18:ME:217:SER:HA	18:ME:223:ARG:HB3	1.74	0.69
18:ME:233:ALA:H	18:ME:236:ASP:HB2	1.58	0.69
18:ME:304:TRP:CE2	6:gL:87:ASP:CB	2.76	0.69
7:cF:1:MET:SD	7:cF:103:SER:O	2.50	0.69
6:EG:50:ALA:HA	6:EG:53:LYS:HE3	1.75	0.69
7:FG:50:CYS:O	29:FG:203:PEB:HBA1	1.93	0.69
7:FG:50:CYS:CB	29:FG:203:PEB:CAA	2.71	0.69
5:JI:111:ASN:ND2	27:aP:124:TRP:CZ3	2.61	0.69
5:NI:75:THR:OG1	5:NI:78:ARG:N	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IJ:73:GLY:H	29:IJ:201:PEB:HMA2	1.54	0.69
6:IJ:140:VAL:CG2	6:IJ:146:ALA:HA	2.23	0.69
6:OJ:94:ASN:HD22	7:PJ:18:TYR:HD2	1.39	0.69
19:zJ:363:ARG:NH2	31:pP:1001:CYC:CGA	2.55	0.69
5:DK:39:ASP:CG	29:DK:1002:PEB:HMD1	2.17	0.69
5:LK:41:VAL:CG2	5:LK:98:ILE:HG13	2.16	0.69
6:UK:153:SER:O	6:UK:157:ASP:OD1	2.10	0.69
7:LL:100:GLY:O	28:bP:227:VAL:HG21	1.92	0.69
7:TM:24:LEU:N	7:TM:24:LEU:HD23	2.08	0.69
7:eM:85:ASP:OD2	29:eM:201:PEB:HHC1	1.93	0.69
7:iM:85:ASP:CG	29:iM:201:PEB:HHC1	2.17	0.69
7:LN:109:CYS:O	7:LN:113:LEU:CG	2.40	0.69
20:GP:113:LYS:NZ	24:XP:49:ALA:O	2.16	0.69
21:IP:31:PHE:HD1	20:JP:30:VAL:HG12	1.57	0.69
21:hP:1:MET:HE2	21:hP:103:ILE:HD12	1.75	0.69
21:jP:71:MEN:O	21:jP:71:MEN:CE2	2.37	0.69
21:nP:1:MET:HE2	21:nP:103:ILE:HD12	1.75	0.69
21:oP:62:TYR:O	21:oP:67:ARG:NH2	2.26	0.69
21:wP:1:MET:HE2	21:wP:103:ILE:HD12	1.75	0.69
7:JQ:47:ASN:HB3	7:JQ:50:CYS:HB3	1.74	0.69
8:eR:63:VAL:HG21	7:TR:77:ARG:HD3	1.74	0.69
6:MR:81:LYS:NZ	29:MR:201:PEB:CAB	2.50	0.69
6:OR:142:ARG:HH22	29:OR:202:PEB:C4B	2.04	0.69
6:UR:53:LYS:HD3	6:UR:53:LYS:O	1.93	0.69
7:I4:104:VAL:CG2	7:I4:108:ARG:HD2	2.22	0.69
7:M4:50:CYS:HB3	29:M4:203:PEB:CAA	1.71	0.69
7:K5:1:MET:HE2	7:K5:95:TYR:OH	1.90	0.69
7:Y7:39:ASP:OD1	7:Y7:153:PHE:CE1	2.46	0.69
7:TB:24:LEU:N	7:TB:24:LEU:HD23	2.08	0.69
6:UB:53:LYS:O	14:MG:100:THR:CG2	2.40	0.69
7:iB:85:ASP:CG	29:iB:201:PEB:HHC1	2.17	0.69
6:jB:106:ASP:OD2	6:lB:17:ARG:NH1	2.26	0.69
6:EC:33:ARG:HB2	6:GC:25:GLU:OE2	1.93	0.69
10:dD:104:LEU:HB2	29:CD:201:PEB:O1C	1.93	0.69
6:JD:75:ASN:HD21	6:JD:77:GLU:HG2	1.58	0.69
6:IE:14:ALA:C	18:ME:51:PRO:HD3	2.18	0.69
18:ME:54:GLN:HG2	18:ME:185:ARG:HH12	1.57	0.69
4:EF:145:GLN:HE21	29:LF:1002:PEB:HMC2	1.55	0.69
7:BG:141:PHE:CE1	29:BG:203:PEB:HMA3	2.28	0.69
6:IG:111:ALA:HB1	14:MG:252:TYR:OH	1.93	0.69
4:EI:33:ARG:HH12	29:LI:1002:PEB:CAD	1.95	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:75:THR:OG1	5:JI:78:ARG:N	2.21	0.69
6:QI:32:GLN:C	6:QI:33:ARG:HD2	2.18	0.69
6:SI:9:VAL:CG2	7:TI:1:MET:CE	2.71	0.69
19:zJ:212:PHE:CD1	19:zJ:216:TYR:OH	2.40	0.69
5:LK:68:GLN:HG3	15:bM:342:TYR:CD2	2.28	0.69
6:OK:5:ILE:CG2	7:PK:3:ASP:OD2	2.41	0.69
6:QL:73:GLY:C	6:QL:78:LYS:HD2	2.15	0.69
19:zL:213:ARG:O	19:zL:216:TYR:CD1	2.45	0.69
15:bM:407:THR:HG22	28:4P:81:VAL:HG13	1.75	0.69
6:EM:54:GLU:HG3	6:EM:133:TYR:HE2	1.58	0.69
6:AN:30:ASN:O	6:AN:34:SER:HB3	1.93	0.69
21:DP:42:ALA:HB2	20:CP:23:LEU:HD13	1.74	0.69
25:YP:317:ARG:NH2	25:YP:378:ASN:OD1	2.25	0.69
26:ZP:122:LYS:CA	26:ZP:125:ASP:OD2	2.41	0.69
20:lP:25:ARG:HD3	20:pP:25:ARG:HB3	1.74	0.69
6:CQ:28:GLN:NE2	6:CQ:32:GLN:OE1	2.26	0.69
6:MR:137:ARG:NH2	29:MR:202:PEB:O2B	2.26	0.69
6:O2:142:ARG:NE	6:lB:76:GLN:CG	2.48	0.69
7:V2:147:THR:OG1	7:V2:148:GLU:OE1	2.09	0.69
7:C4:51:MET:HE2	29:C4:203:PEB:H3A1	1.75	0.69
6:D4:34:SER:HB2	6:D4:37:ARG:NH2	2.07	0.69
7:E4:125:ASN:N	7:E4:125:ASN:OD1	2.25	0.69
13:k6:211:PRO:O	13:k6:214:ASN:ND2	2.25	0.69
5:F7:114:ARG:NE	5:F7:172:VAL:O	2.26	0.69
5:H7:150:ILE:HG21	7:ZB:159:THR:HG22	1.67	0.69
7:m7:39:ASP:OD1	7:m7:153:PHE:CE1	2.46	0.69
3:B9:38:PRO:HB2	3:B9:43:VAL:HG22	1.75	0.69
7:BA:15:LYS:HG2	7:BA:15:LYS:O	1.92	0.69
17:BB:196:ILE:CG2	7:TB:115:GLU:OE1	2.41	0.69
6:HD:75:ASN:HD21	6:HD:77:GLU:HG2	1.58	0.69
7:KD:149:ARG:HB2	29:KD:203:PEB:OA	1.93	0.69
18:ME:144:ARG:HG2	18:ME:145:ASP:H	1.56	0.69
4:CF:62:LYS:HE2	9:OO:299:ILE:HB	1.75	0.69
5:JF:135:LYS:NZ	27:3P:67:GLY:CA	2.55	0.69
6:IG:50:ALA:HA	6:IG:53:LYS:HE3	1.75	0.69
6:KJ:73:GLY:HA2	6:KJ:78:LYS:CB	2.23	0.69
6:QJ:73:GLY:C	6:QJ:78:LYS:HD2	2.15	0.69
2:AK:102:GLN:HG3	2:AK:102:GLN:O	1.93	0.69
6:kL:147:GLN:OE1	29:nL:202:PEB:HMC2	1.91	0.69
7:lL:42:ASN:HD21	6:mL:154:ALA:HB2	1.58	0.69
6:AO:54:GLU:OE1	29:AO:202:PEB:HMC2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:EP:14:GLU:CG	25:YP:509:PHE:HE1	2.06	0.69
20:TP:26:ILE:O	20:TP:30:VAL:HG22	1.93	0.69
20:pP:26:ILE:O	20:pP:30:VAL:HG22	1.93	0.69
6:CQ:50:ALA:HA	6:CQ:53:LYS:HE3	1.75	0.69
7:PR:61:CYS:SG	29:PR:202:PEB:CMD	2.79	0.69
3:B1:55:PHE:HB3	3:B1:59:GLN:HB2	1.76	0.68
5:J1:20:SER:HB3	15:bB:334:GLY:H	1.58	0.68
8:e2:297:GLY:CA	4:E7:89:GLY:HA3	2.22	0.68
6:Q2:37:ARG:NH1	6:Q2:98:VAL:C	2.50	0.68
7:T2:88:ILE:HG21	29:T2:201:PEB:CAD	2.23	0.68
10:d4:133:PRO:CB	29:E4:201:PEB:C4D	2.71	0.68
10:d4:205:ASN:OD1	7:M4:116:THR:HG22	1.92	0.68
10:d4:284:LEU:HD12	29:TF:202:PEB:H1D1	1.74	0.68
6:B4:9:VAL:CG1	7:C4:95:TYR:CE1	2.71	0.68
7:M4:51:MET:SD	7:M4:137:GLN:CG	2.82	0.68
7:B5:108:ARG:HH21	18:MC:268:VAL:H	1.35	0.68
7:B5:108:ARG:CZ	18:MC:268:VAL:HA	2.23	0.68
7:C8:17:ALA:O	11:D8:264:SER:HB3	1.92	0.68
4:E9:85:ALA:HB1	8:eR:296:PRO:CG	2.24	0.68
7:k9:39:ASP:OD1	7:k9:153:PHE:CE1	2.46	0.68
6:GA:30:ASN:O	6:GA:34:SER:HB3	1.92	0.68
7:cB:149:ARG:NH2	6:dB:157:ASP:OD2	2.23	0.68
7:KD:23:ASP:OD1	7:KD:23:ASP:N	2.25	0.68
7:MD:106:GLU:CD	7:MD:106:GLU:H	1.98	0.68
18:ME:289:GLU:CD	5:DI:20:SER:OG	2.36	0.68
13:kH:4:LYS:HB3	13:kH:7:GLU:HG2	1.75	0.68
13:kH:235:TYR:CB	6:OR:68:ASN:OD1	2.40	0.68
6:OI:6:THR:CG2	7:PI:1:MET:CE	2.71	0.68
7:cI:1:MET:SD	7:cI:103:SER:O	2.50	0.68
6:SJ:33:ARG:CZ	6:SJ:33:ARG:HA	2.22	0.68
19:zJ:332:LEU:HD23	20:pP:63:PRO:O	1.91	0.68
5:FK:40:ILE:CG1	29:FK:1002:PEB:HBA1	2.23	0.68
7:eK:67:ILE:HD12	6:lK:84:ARG:HH12	1.58	0.68
15:bM:374:THR:HA	21:oP:65:ILE:HG23	1.74	0.68
6:GM:159:LEU:HD11	6:GM:163:LEU:HD12	1.73	0.68
6:IO:142:ARG:O	6:IO:144:MET:N	2.25	0.68
21:HP:42:ALA:CA	25:YP:40:LEU:HD21	2.23	0.68
21:UP:54:GLU:OE2	20:gP:49:ARG:HD3	1.92	0.68
21:fP:110:ASN:OD1	25:1P:653:GLN:HB3	1.92	0.68
21:kP:19:LEU:CD1	20:1P:97:ILE:HD12	2.23	0.68
25:1P:317:ARG:NH2	25:1P:378:ASN:OD1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HQ:47:ASN:HB3	7:HQ:50:CYS:HB3	1.74	0.68
6:IQ:50:ALA:HA	6:IQ:53:LYS:HE3	1.75	0.68
8:eR:222:GLU:OE2	7:TR:112:GLY:HA2	1.91	0.68
6:SR:91:ARG:HH11	7:TR:16:ALA:HA	1.54	0.68
5:F1:20:SER:HG	5:F1:23:GLN:HG3	1.57	0.68
6:M2:81:LYS:NZ	29:M2:201:PEB:O1B	2.25	0.68
6:M2:138:LEU:HB2	29:M2:202:PEB:CMD	2.22	0.68
6:S2:142:ARG:NH2	29:S2:202:PEB:HHA1	2.08	0.68
7:X2:147:THR:OG1	7:X2:148:GLU:OE1	2.09	0.68
7:M3:87:GLU:CD	7:M3:91:ARG:CD	2.63	0.68
9:O3:299:ILE:HB	4:CI:62:LYS:HE2	1.76	0.68
7:E4:37:ARG:O	7:E4:41:VAL:HG23	1.92	0.68
7:K4:51:MET:HE1	7:K4:137:GLN:HB2	1.74	0.68
12:E8:188:ALA:HB2	6:bF:64:ALA:HB1	1.65	0.68
4:I9:105:GLY:O	4:I9:109:GLU:HG2	1.93	0.68
6:W9:62:LYS:CE	8:eR:276:PHE:O	2.40	0.68
7:ED:51:MET:HE1	7:ED:137:GLN:HB2	1.74	0.68
6:EE:33:ARG:HE	6:EE:33:ARG:HA	1.57	0.68
6:AG:50:ALA:HA	6:AG:53:LYS:HE3	1.75	0.68
6:IG:2:LYS:HE2	14:MG:254:VAL:HG13	1.74	0.68
7:LG:113:LEU:HB2	14:MG:236:TYR:CE1	2.28	0.68
4:CK:12:ALA:C	4:CK:14:ASN:H	2.01	0.68
5:FK:20:SER:H	5:FK:23:GLN:HE21	1.42	0.68
4:GK:104:THR:OG1	4:IK:17:ARG:NH2	2.24	0.68
7:RL:113:LEU:CG	7:RL:176:ILE:HG22	2.21	0.68
15:bM:263:PRO:O	15:bM:267:THR:HG23	1.91	0.68
7:NM:170:ASP:HB3	28:4P:183:GLY:O	1.93	0.68
6:EN:30:ASN:O	6:EN:34:SER:CB	2.41	0.68
22:VP:57:LYS:NZ	22:VP:139:GLU:OE1	2.23	0.68
25:YP:512:GLU:HB2	25:YP:514:ILE:HG13	1.73	0.68
20:mP:25:ARG:CD	25:1P:42:GLN:HA	2.21	0.68
20:vP:26:ILE:O	20:vP:30:VAL:HG22	1.94	0.68
6:CQ:2:LYS:NZ	14:MQ:138:SER:HB3	2.09	0.68
29:MR:201:PEB:HMC1	7:VR:79:MET:HG3	1.75	0.68
7:TR:88:ILE:HG21	29:TR:201:PEB:CAD	2.23	0.68
7:g1:101:ASP:HA	14:MA:98:LEU:CG	2.22	0.68
6:M2:142:ARG:CZ	29:M2:202:PEB:CHA	2.71	0.68
10:d4:237:LEU:HD21	7:E4:2:LEU:HD21	1.75	0.68
6:F4:142:ARG:HG3	6:F4:143:ASP:N	2.07	0.68
7:M4:91:ARG:O	7:M4:94:SER:OG	2.10	0.68
7:M4:125:ASN:N	7:M4:125:ASN:OD1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B5:108:ARG:HG3	18:MC:266:GLY:C	2.17	0.68
7:I5:3:ASP:OD2	28:bP:87:LYS:CE	2.40	0.68
4:I7:105:GLY:O	4:I7:109:GLU:HG2	1.93	0.68
3:B9:65:LYS:O	3:B9:67:PRO:HD3	1.93	0.68
29:FA:201:PEB:O2C	14:MA:174:ARG:NH1	2.25	0.68
15:bB:341:ALA:CB	15:bB:349:LYS:CE	2.71	0.68
18:MC:65:LYS:HD2	18:MC:98:LEU:HD22	1.74	0.68
7:KD:51:MET:HE1	7:KD:137:GLN:HB2	1.74	0.68
6:AE:130:SER:O	6:AE:134:THR:HG23	1.94	0.68
5:JF:63:GLN:HG2	20:rP:73:TYR:CE1	2.27	0.68
6:CG:2:LYS:HZ3	14:MG:139:GLY:N	1.91	0.68
4:CI:33:ARG:HH12	29:NI:1002:PEB:HBD1	0.54	0.68
19:zJ:213:ARG:O	19:zJ:216:TYR:CD1	2.45	0.68
4:IK:49:GLN:HE21	15:bM:336:SER:C	2.01	0.68
7:gK:97:LEU:HD13	7:gK:165:VAL:HG23	1.70	0.68
6:IL:140:VAL:CG2	6:IL:146:ALA:HA	2.23	0.68
6:UL:70:GLY:HA2	6:UL:74:GLU:CG	2.22	0.68
6:gL:68:ASN:CG	6:gL:71:GLU:CD	2.60	0.68
7:PM:61:CYS:HB3	29:PM:202:PEB:CBD	2.20	0.68
6:UM:53:LYS:O	14:MQ:100:THR:HG23	1.92	0.68
21:IP:1:MET:HE2	21:IP:103:ILE:HD12	1.75	0.68
20:tP:26:ILE:O	20:tP:30:VAL:HG22	1.93	0.68
7:FQ:136:ALA:HB3	29:FQ:203:PEB:O1C	1.93	0.68
6:QR:138:LEU:CA	29:QR:202:PEB:HMD1	2.23	0.68
6:W1:25:GLU:HG2	6:Z1:33:ARG:HG3	1.74	0.68
6:U2:137:ARG:HH21	29:U2:202:PEB:CHB	2.06	0.68
7:C4:87:GLU:OE1	7:C4:87:GLU:N	2.19	0.68
6:D4:75:ASN:HD21	6:D4:77:GLU:HG2	1.58	0.68
7:I4:125:ASN:N	7:I4:125:ASN:OD1	2.25	0.68
7:M4:125:ASN:H	6:UF:69:PRO:HG3	1.59	0.68
13:k6:127:VAL:O	13:k6:129:PRO:HD3	1.93	0.68
7:Y9:39:ASP:OD1	7:Y9:153:PHE:CE1	2.46	0.68
7:ID:91:ARG:O	7:ID:94:SER:OG	2.09	0.68
7:KD:125:ASN:N	7:KD:125:ASN:OD1	2.25	0.68
6:KE:44:LEU:CD2	29:KE:203:PEB:HBD2	2.22	0.68
6:CG:50:ALA:HA	6:CG:53:LYS:HE3	1.75	0.68
7:DG:47:ASN:HB3	7:DG:50:CYS:HB3	1.74	0.68
5:HI:75:THR:OG1	5:HI:78:ARG:N	2.21	0.68
6:mJ:31:ILE:HA	7:nJ:31:ILE:HG23	1.75	0.68
5:NK:47:ASN:HD21	5:NK:141:LEU:CD2	2.05	0.68
6:IL:147:GLN:CD	29:IL:203:PEB:HMC2	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ML:33:ARG:NH2	6:ML:151:GLU:OE2	2.26	0.68
6:aL:68:ASN:CG	6:aL:71:GLU:CD	2.60	0.68
17:BM:196:ILE:CG2	7:TM:115:GLU:OE1	2.41	0.68
7:BO:115:GLU:HB3	9:OO:277:GLU:HB3	1.75	0.68
20:AP:26:ILE:O	20:AP:30:VAL:HG22	1.93	0.68
21:DP:72:MET:HA	21:DP:77:ARG:HB3	1.74	0.68
20:KP:25:ARG:CD	25:YP:42:GLN:HA	2.23	0.68
20:KP:103:PRO:HG3	28:bP:50:TYR:CZ	2.29	0.68
20:iP:12:ASP:OD2	23:yP:113:ARG:NH2	2.25	0.68
20:rP:26:ILE:O	20:rP:30:VAL:HG22	1.94	0.68
21:uP:1:MET:HE2	21:uP:103:ILE:HD12	1.75	0.68
7:DQ:137:GLN:OE1	29:DQ:203:PEB:C1B	2.42	0.68
6:EQ:50:ALA:HA	6:EQ:53:LYS:HE3	1.75	0.68
6:UR:138:LEU:HA	29:UR:202:PEB:HMD1	1.75	0.68
5:H1:38:LEU:N	5:H1:38:LEU:HD23	2.09	0.68
4:M1:93:ARG:CZ	5:N1:16:GLY:O	2.40	0.68
10:d4:251:ARG:NH2	29:WF:202:PEB:O2B	2.27	0.68
7:G4:76:ASN:CG	6:J4:113:ALA:HA	2.17	0.68
7:I4:157:ASP:OD1	7:I4:159:THR:N	2.21	0.68
7:I5:27:LEU:CD2	19:zL:298:ALA:HB2	2.24	0.68
13:k6:280:ARG:HG3	13:k6:283:LYS:NZ	2.09	0.68
3:B7:38:PRO:HB2	3:B7:43:VAL:HG22	1.75	0.68
3:B7:65:LYS:O	3:B7:67:PRO:HD3	1.93	0.68
7:k7:150:LYS:HZ2	7:G8:149:ARG:HE	0.70	0.68
7:k7:150:LYS:CE	7:G8:149:ARG:CZ	2.67	0.68
5:F9:18:PHE:CG	8:eR:300:VAL:HG12	2.24	0.68
5:F9:32:LYS:HD3	5:F9:32:LYS:C	2.17	0.68
5:F9:114:ARG:NE	5:F9:172:VAL:O	2.26	0.68
6:IA:32:GLN:H	6:IA:32:GLN:NE2	1.90	0.68
17:BB:181:THR:CG2	29:BB:301:PEB:CBA	2.67	0.68
18:MC:217:SER:HA	18:MC:223:ARG:HB3	1.74	0.68
7:LE:116:THR:HB	18:ME:213:THR:HG21	1.75	0.68
18:ME:65:LYS:HD2	18:ME:98:LEU:HD22	1.74	0.68
18:ME:232:MET:SD	29:SI:202:PEB:C2B	2.82	0.68
3:BF:58:HIS:ND1	31:JF:1001:CYC:O1A	2.27	0.68
3:BF:204:ARG:CD	31:rP:1001:CYC:CGD	2.71	0.68
6:ZF:33:ARG:HH21	6:ZF:151:GLU:CD	2.01	0.68
7:HG:47:ASN:HB3	7:HG:50:CYS:HB3	1.74	0.68
7:LG:137:GLN:HE22	29:LG:203:PEB:CHA	2.04	0.68
13:kH:255:LEU:O	13:kH:262:SER:OG	2.11	0.68
16:xJ:42:SER:O	16:xJ:43:LYS:CB	2.37	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:363:ARG:CD	21:nP:62:TYR:CA	2.69	0.68
4:CK:3:THR:CB	4:CK:4:PRO:CD	2.71	0.68
4:EK:16:GLY:HA2	5:FK:91:ARG:NH1	2.09	0.68
29:gK:202:PEB:CMC	6:hK:33:ARG:HH22	2.05	0.68
29:RL:202:PEB:C3D	6:SL:33:ARG:NH1	2.57	0.68
6:UL:63:TYR:HB2	6:UL:66:LEU:HD11	1.75	0.68
6:qL:13:ASP:OD2	7:rL:108:ARG:NH1	2.25	0.68
19:zL:363:ARG:NH1	21:LP:61:LEU:O	2.20	0.68
15:bM:318:THR:HG21	20:mP:87:TYR:OH	1.93	0.68
7:FM:83:LEU:HD12	6:MM:116:VAL:HG12	1.76	0.68
7:JM:85:ASP:OD2	29:JM:201:PEB:HHC1	1.93	0.68
14:MN:96:LYS:N	14:MN:96:LYS:HD2	2.08	0.68
6:GO:24:LEU:HD12	6:GO:24:LEU:C	2.18	0.68
20:KP:26:ILE:O	20:KP:30:VAL:HG22	1.94	0.68
21:OP:62:TYR:OH	22:VP:80:LEU:HD13	1.94	0.68
20:PP:26:ILE:O	20:PP:30:VAL:HG22	1.94	0.68
21:fP:1:MET:HE2	21:fP:103:ILE:HD12	1.75	0.68
7:BQ:97:LEU:CD2	7:BQ:168:TYR:CD2	2.76	0.68
7:TR:106:GLU:CG	7:TR:110:LEU:CD1	2.65	0.68
7:XR:147:THR:OG1	7:XR:148:GLU:OE1	2.09	0.68
3:B1:205:ARG:HH21	20:JP:52:LYS:CD	2.06	0.68
4:E1:49:GLN:CG	6:Q7:53:LYS:CG	2.67	0.68
4:I1:136:ILE:O	4:I1:140:HIS:HD2	1.76	0.68
6:O2:144:MET:O	6:lB:67:LYS:HD3	1.93	0.68
7:C4:125:ASN:N	7:C4:125:ASN:OD1	2.25	0.68
7:E4:91:ARG:HG2	7:E4:95:TYR:CE2	2.29	0.68
6:F4:75:ASN:HD21	6:F4:77:GLU:HG2	1.58	0.68
7:G4:76:ASN:OD1	6:J4:113:ALA:HA	1.94	0.68
7:L5:108:ARG:HD2	4:I7:64:PRO:HG3	0.73	0.68
13:k6:4:LYS:HB3	13:k6:7:GLU:HG2	1.75	0.68
13:k6:23:ALA:HB1	13:k6:26:VAL:HG23	1.75	0.68
5:H9:23:GLN:NE2	13:kH:163:ALA:O	2.27	0.68
7:NB:25:GLN:HG3	21:MP:147:LYS:HB3	1.70	0.68
18:MC:242:LYS:HB2	29:SF:202:PEB:O1B	1.88	0.68
6:BD:30:ASN:OD1	6:BD:37:ARG:NH2	2.24	0.68
6:IE:130:SER:O	6:IE:134:THR:HG23	1.94	0.68
4:KF:13:ASP:OD2	5:LF:108:ARG:NH1	2.24	0.68
7:FG:141:PHE:CE2	29:FG:203:PEB:CMB	2.75	0.68
6:GG:137:ARG:HH11	29:GG:202:PEB:HHC1	1.56	0.68
3:BI:205:ARG:CA	20:PP:76:GLU:OE2	2.40	0.68
3:BI:210:GLU:HA	27:aP:71:VAL:CG2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:135:LYS:NZ	27:aP:67:GLY:CA	2.56	0.68
5:LI:68:GLN:NE2	27:aP:110:SER:CA	2.57	0.68
6:KL:73:GLY:HA2	6:KL:78:LYS:CB	2.23	0.68
15:bM:362:ALA:CB	6:MM:49:GLU:HG2	2.23	0.68
6:QM:54:GLU:CD	29:QM:204:PEB:C2C	2.65	0.68
7:NO:87:GLU:CD	7:NO:91:ARG:CD	2.65	0.68
21:DP:1:MET:HE2	21:DP:103:ILE:HD12	1.75	0.68
21:FP:1:MET:HE2	21:FP:103:ILE:HD12	1.75	0.68
20:NP:26:ILE:O	20:NP:30:VAL:HG22	1.93	0.68
7:DQ:75:THR:HG22	7:DQ:78:ARG:H	1.59	0.68
6:EQ:26:SER:HA	6:GQ:26:SER:HA	1.76	0.68
7:JQ:50:CYS:O	29:JQ:203:PEB:HAA2	1.94	0.68
6:QR:37:ARG:NH1	6:QR:98:VAL:C	2.50	0.68
6:UR:43:LYS:HB2	6:UR:144:MET:HE2	1.75	0.68
6:WR:9:VAL:HG21	7:XR:1:MET:CE	2.11	0.68
2:A1:102:GLN:O	2:A1:102:GLN:HG3	1.93	0.68
7:e1:67:ILE:HD12	6:l1:84:ARG:HH12	1.58	0.68
8:e2:126:TYR:CD2	7:V2:116:THR:HG23	2.27	0.68
7:N3:83:LEU:HB2	9:O3:402:ILE:HG13	1.76	0.68
6:H4:142:ARG:HG3	6:H4:143:ASP:N	2.07	0.68
6:J8:64:ALA:CB	20:pP:41:GLN:NE2	2.57	0.68
3:B9:59:GLN:O	3:B9:64:THR:OG1	2.11	0.68
3:B9:197:PHE:CB	21:sP:50:THR:CB	2.71	0.68
3:B9:228:MET:HE3	20:PP:82:LEU:HD11	1.76	0.68
6:GB:135:ARG:HH11	7:JB:149:ARG:HH12	1.39	0.68
18:MC:261:VAL:HG13	6:SF:68:ASN:OD1	1.93	0.68
7:GD:37:ARG:O	7:GD:41:VAL:HG23	1.92	0.68
18:ME:233:ALA:H	18:ME:236:ASP:CB	2.05	0.68
18:ME:313:THR:O	18:ME:316:TYR:OH	2.12	0.68
6:OF:6:THR:CG2	7:PF:1:MET:CE	2.71	0.68
5:NI:74:TYR:O	5:NI:75:THR:CG2	2.42	0.68
19:zJ:362:GLY:O	21:nP:62:TYR:CD2	2.47	0.68
4:IK:136:ILE:O	4:IK:140:HIS:HD2	1.76	0.68
5:JK:20:SER:OG	5:JK:23:GLN:HG3	1.94	0.68
5:LK:20:SER:H	5:LK:23:GLN:NE2	1.91	0.68
6:GN:37:ARG:CG	6:GN:97:LEU:O	2.42	0.68
20:CP:26:ILE:O	20:CP:30:VAL:HG22	1.94	0.68
21:OP:1:MET:HE2	21:OP:103:ILE:HD12	1.74	0.68
21:OP:76:ARG:HG3	24:XP:81:LEU:HD12	1.75	0.68
21:dP:1:MET:HE2	21:dP:103:ILE:HD12	1.75	0.68
21:sP:1:MET:HE2	21:sP:103:ILE:HD12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:QR:54:GLU:OE1	29:QR:202:PEB:C3C	2.42	0.68
6:S1:9:VAL:HG11	7:T1:1:MET:HE1	1.75	0.68
7:V1:97:LEU:HD13	7:V1:165:VAL:HG23	1.70	0.68
29:M2:201:PEB:HMC1	7:V2:79:MET:HG3	1.75	0.68
6:O2:115:GLU:H	6:O2:115:GLU:CD	2.02	0.68
6:O2:156:LEU:O	6:O2:160:ILE:HD12	1.92	0.68
6:F4:68:ASN:O	6:F4:71:GLU:HB2	1.94	0.68
7:M4:50:CYS:CB	29:M4:203:PEB:CAA	2.60	0.68
13:k6:22:ILE:HG13	13:k6:23:ALA:H	1.58	0.68
7:B8:108:ARG:HG3	18:ME:266:GLY:C	2.19	0.68
18:MC:217:SER:HA	18:MC:223:ARG:CB	2.24	0.68
18:MC:221:ALA:CB	18:MC:222:PRO:CD	2.63	0.68
10:dD:264:LYS:HG3	6:WI:61:ALA:HB1	1.75	0.68
10:dD:312:ALA:O	10:dD:316:GLN:NE2	2.26	0.68
7:GD:125:ASN:N	7:GD:125:ASN:OD1	2.25	0.68
6:JD:161:ASN:HA	6:JD:164:SER:HB2	1.76	0.68
4:KF:100:VAL:HG11	5:LF:27:LEU:CD1	2.24	0.68
6:WF:9:VAL:HG22	7:YF:1:MET:HE2	1.75	0.68
7:gI:170:ASP:OD1	7:gI:171:ARG:N	2.27	0.68
6:mJ:10:SER:HB2	16:xJ:195:TYR:H	1.58	0.68
6:sJ:14:ALA:CA	16:xJ:87:THR:HA	2.24	0.68
19:zJ:332:LEU:CD2	20:pP:64:ASP:CA	2.72	0.68
6:SK:17:ARG:O	7:TK:95:TYR:OH	2.12	0.68
6:uL:14:ALA:O	16:xL:74:GLN:HA	1.94	0.68
19:zL:343:GLN:HE21	20:GP:61:ARG:C	2.01	0.68
7:DO:39:ASP:OD1	29:DO:202:PEB:C2D	2.40	0.68
21:IP:110:ASN:ND2	25:YP:422:LYS:HB3	2.09	0.68
21:LP:9:ILE:CG1	22:VP:97:LEU:HD23	2.24	0.68
21:nP:71:MEN:O	21:nP:77:ARG:HD3	1.94	0.68
20:pP:106:GLU:CG	24:zP:62:VAL:HG21	2.23	0.68
22:xP:95:ALA:HB2	22:xP:104:LEU:HG	1.76	0.68
25:1P:553:LYS:HG2	25:1P:559:LEU:HG	1.76	0.68
27:3P:41:TYR:OH	27:3P:46:ASP:OD2	2.08	0.68
6:QR:106:ASP:HA	6:QR:110:ILE:HB	1.76	0.68
5:J1:18:PHE:HB2	15:bB:335:ILE:HD12	1.75	0.68
5:J1:74:TYR:OH	4:M1:93:ARG:NH2	2.27	0.68
6:M2:140:VAL:CG1	6:M2:145:SER:O	2.41	0.68
6:F4:161:ASN:HA	6:F4:164:SER:HB2	1.76	0.68
6:J4:75:ASN:HD21	6:J4:77:GLU:HG2	1.58	0.68
6:L4:75:ASN:HD21	6:L4:77:GLU:HG2	1.58	0.68
7:B5:108:ARG:HG3	18:MC:266:GLY:CA	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:L5:201:PEB:HAC1	13:k6:283:LYS:HE2	1.75	0.68
13:k6:162:GLU:HB3	5:H7:15:ARG:CZ	2.24	0.68
13:k6:280:ARG:CG	13:k6:283:LYS:HZ1	2.06	0.68
5:F7:72:MEN:C	5:F7:78:ARG:HH11	2.07	0.68
5:L7:18:PHE:CD1	20:TP:67:SER:HB3	2.28	0.68
5:N7:159:GLU:HB2	26:2P:101:VAL:HG11	1.75	0.68
6:AA:30:ASN:O	6:AA:34:SER:HB3	1.93	0.68
10:dD:270:ARG:CD	7:MD:78:ARG:HH22	2.05	0.68
10:dD:283:ARG:CD	7:TI:148:GLU:HB3	2.23	0.68
6:DD:54:GLU:CD	6:DD:137:ARG:HH21	2.02	0.68
7:GD:133:ILE:HG13	29:GD:203:PEB:HBC1	1.74	0.68
6:LD:68:ASN:O	6:LD:71:GLU:HB2	1.94	0.68
13:kH:22:ILE:HG13	13:kH:23:ALA:H	1.58	0.68
5:JI:74:TYR:O	5:JI:75:THR:CG2	2.42	0.68
7:HJ:123:PRO:HG2	29:zJ:501:PEB:HMA2	1.74	0.68
6:IJ:137:ARG:HH22	29:IJ:202:PEB:C4C	2.07	0.68
7:PJ:113:LEU:HD23	7:PJ:176:ILE:CG2	2.23	0.68
6:oJ:99:VAL:CG2	7:pJ:9:VAL:HG21	2.23	0.68
4:IK:3:THR:HG21	4:IK:101:VAL:HB	1.76	0.68
6:oL:33:ARG:HG3	6:qL:25:GLU:HG2	1.76	0.68
21:LP:1:MET:HE2	21:LP:103:ILE:HD12	1.75	0.68
20:RP:26:ILE:O	20:RP:30:VAL:HG22	1.94	0.68
20:gP:26:ILE:O	20:gP:30:VAL:HG22	1.93	0.68
21:qP:1:MET:HE2	21:qP:103:ILE:HD12	1.75	0.68
7:BQ:75:THR:HG22	7:BQ:78:ARG:H	1.59	0.68
6:QR:139:CYS:SG	29:QR:202:PEB:HBA1	2.30	0.68
6:l1:52:VAL:HG21	6:l1:87:ASP:HA	1.76	0.68
7:P2:174:ALA:CB	6:W7:76:GLN:HE21	1.95	0.68
6:H4:161:ASN:HA	6:H4:164:SER:HB2	1.76	0.68
7:K4:91:ARG:HG2	7:K4:95:TYR:CE2	2.29	0.68
6:L4:24:LEU:HD13	7:M4:38:LEU:HD22	1.75	0.68
12:E5:120:TYR:CE2	7:Y9:156:GLY:HA2	2.28	0.68
6:KA:38:LEU:HD23	7:LA:28:LYS:HE3	1.75	0.68
15:bB:274:ARG:HD3	15:bB:372:ILE:HG21	1.75	0.68
7:JB:85:ASP:OD2	29:JB:201:PEB:HHC1	1.93	0.68
7:NB:113:LEU:HD12	7:NB:113:LEU:O	1.94	0.68
6:fB:9:VAL:HG13	7:gB:95:TYR:CD1	2.29	0.68
10:dD:264:LYS:HD3	10:dD:264:LYS:O	1.93	0.68
6:BD:75:ASN:HD21	6:BD:77:GLU:HG2	1.58	0.68
7:KD:157:ASP:OD1	7:KD:159:THR:N	2.21	0.68
7:HE:25:GLN:O	7:HE:28:LYS:HB2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JF:76:SER:OG	4:MF:113:ALA:O	2.04	0.68
6:WI:6:THR:HA	7:YI:1:MET:HE2	1.75	0.68
7:FJ:128:ILE:HD13	7:FJ:176:ILE:HD11	1.76	0.68
5:HK:35:ASN:HD22	29:HK:1002:PEB:C4C	2.06	0.68
5:HK:145:THR:HG22	29:HK:1002:PEB:C1A	2.24	0.68
6:SK:9:VAL:HG11	7:TK:1:MET:HE1	1.75	0.68
7:FL:128:ILE:HD13	7:FL:176:ILE:HD11	1.76	0.68
6:KL:72:ALA:C	6:KL:78:LYS:NZ	2.52	0.68
6:sL:17:ARG:NH1	6:uL:106:ASP:OD2	2.27	0.68
16:xL:41:ASN:HD22	16:xL:41:ASN:N	1.88	0.68
6:GM:135:ARG:NH1	7:JM:149:ARG:HH12	1.91	0.68
7:TM:62:GLU:OE2	7:TM:129:ARG:HG3	1.93	0.68
7:JQ:87:GLU:OE2	14:MQ:264:VAL:HG22	1.94	0.68
6:WR:65:TYR:CD1	6:WR:66:LEU:CD1	2.77	0.68
6:WR:65:TYR:CG	6:WR:66:LEU:HD12	2.30	0.68
4:C1:12:ALA:C	4:C1:14:ASN:H	2.01	0.67
5:F1:153:CYS:O	5:F1:157:VAL:HG13	1.94	0.67
6:M2:81:LYS:NZ	29:M2:201:PEB:CAB	2.50	0.67
7:T2:123:PRO:HA	6:U7:69:PRO:HG3	1.46	0.67
7:B3:69:PRO:HG2	7:F3:16:ALA:HB2	1.76	0.67
7:C4:91:ARG:HG2	7:C4:95:TYR:CE2	2.29	0.67
7:G4:33:ASP:OD1	7:G4:33:ASP:N	2.24	0.67
7:I4:91:ARG:HG2	7:I4:95:TYR:CE2	2.29	0.67
7:K5:108:ARG:NH2	27:aP:278:GLU:HG2	2.09	0.67
3:B7:44:ASP:OD2	5:F7:77:ARG:NH2	2.27	0.67
6:J8:9:VAL:CG2	7:K8:95:TYR:CE1	2.76	0.67
29:L8:201:PEB:HAC1	13:kH:283:LYS:HE2	1.75	0.67
6:AC:130:SER:O	6:AC:134:THR:HG23	1.94	0.67
7:CD:91:ARG:HG2	7:CD:95:TYR:CE2	2.29	0.67
6:LD:24:LEU:HD13	7:MD:38:LEU:HD22	1.75	0.67
6:LD:75:ASN:HD21	6:LD:77:GLU:HG2	1.58	0.67
7:DE:25:GLN:O	7:DE:28:LYS:HB2	1.94	0.67
7:HG:54:ASP:CB	29:HG:203:PEB:HBA2	2.23	0.67
7:LG:75:THR:HG22	7:LG:78:ARG:H	1.59	0.67
6:oJ:33:ARG:HG3	6:qJ:25:GLU:HG2	1.76	0.67
7:tJ:77:ARG:HH11	16:xJ:212:ARG:CZ	2.07	0.67
16:wJ:86:CYS:SG	30:wJ:305:PUB:CAA	2.82	0.67
1:XK:325:VAL:HG23	4:CK:112:VAL:O	1.93	0.67
5:FK:33:GLU:HB3	5:FK:36:GLN:HB2	1.76	0.67
16:xL:146:PRO:HD2	16:xL:147:LYS:N	2.00	0.67
15:bM:335:ILE:CG2	15:bM:340:GLU:CG	2.65	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KN:38:LEU:HD23	7:LN:28:LYS:HE3	1.75	0.67
21:FP:60:LEU:HD13	21:FP:72:MET:HE1	1.76	0.67
20:PP:18:LEU:HD22	21:UP:97:LEU:CD1	2.24	0.67
20:cP:97:ILE:HG21	21:hP:27:LEU:HD13	1.76	0.67
21:jP:1:MET:HE2	21:jP:103:ILE:HD12	1.75	0.67
20:mP:26:ILE:O	20:mP:30:VAL:HG22	1.94	0.67
21:oP:1:MET:HE2	21:oP:103:ILE:HD12	1.75	0.67
21:qP:76:ARG:HG3	24:zP:81:LEU:HD12	1.75	0.67
6:MR:106:ASP:HA	6:MR:110:ILE:HB	1.76	0.67
7:PR:84:ARG:O	7:PR:87:GLU:HG2	1.93	0.67
5:F1:40:ILE:CG1	29:F1:1002:PEB:HBA1	2.23	0.67
8:e2:291:ILE:HD11	7:T2:170:ASP:CA	2.15	0.67
6:O2:5:ILE:O	6:O2:9:VAL:HG22	1.94	0.67
6:S2:5:ILE:O	6:S2:9:VAL:HG22	1.94	0.67
10:d4:115:ARG:HH11	10:d4:175:VAL:HG13	1.59	0.67
6:D4:68:ASN:O	6:D4:71:GLU:HB2	1.94	0.67
6:D4:113:ALA:HB2	7:I4:76:ASN:HD21	1.58	0.67
7:B5:108:ARG:CZ	18:MC:268:VAL:CA	2.72	0.67
12:E5:186:PRO:HD3	6:bI:57:ASP:HB3	1.76	0.67
5:N7:166:ARG:NH1	26:2P:96:VAL:CG2	2.57	0.67
7:V7:169:PHE:O	7:V7:172:VAL:CG1	2.42	0.67
7:k7:39:ASP:OD1	7:k7:153:PHE:CE1	2.46	0.67
4:M9:6:THR:HG23	5:N9:3:ASP:CG	2.19	0.67
6:Q9:5:ILE:O	6:Q9:9:VAL:HG22	1.94	0.67
6:GA:37:ARG:CG	6:GA:97:LEU:O	2.42	0.67
15:bB:341:ALA:HB3	15:bB:349:LYS:HD3	1.73	0.67
6:QB:54:GLU:CD	29:QB:204:PEB:C3C	2.67	0.67
6:DD:34:SER:HB2	6:DD:37:ARG:HH21	1.58	0.67
6:ZF:33:ARG:NH2	6:ZF:151:GLU:HG2	2.09	0.67
7:HG:75:THR:HG22	7:HG:78:ARG:H	1.59	0.67
14:MG:103:ARG:HD2	14:MG:103:ARG:N	2.10	0.67
6:KJ:72:ALA:C	6:KJ:78:LYS:NZ	2.52	0.67
7:IJ:42:ASN:HD21	6:mJ:154:ALA:HB2	1.58	0.67
7:IJ:116:THR:HG23	16:xJ:177:MET:HE3	1.76	0.67
19:zL:332:LEU:CD2	20:NP:64:ASP:CA	2.72	0.67
6:YM:54:GLU:OE1	29:YM:203:PEB:C2C	2.43	0.67
29:FN:201:PEB:CBC	14:MN:174:ARG:HH11	1.77	0.67
28:bP:45:TYR:O	28:bP:55:VAL:HB	1.93	0.67
20:cP:26:ILE:O	20:cP:30:VAL:HG22	1.93	0.67
20:eP:26:ILE:O	20:eP:30:VAL:HG22	1.93	0.67
6:UR:5:ILE:O	6:UR:9:VAL:HG22	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D1:1003:CYC:HAB2	4:G1:111:LEU:HD12	1.76	0.67
7:e1:126:SER:OG	29:e1:201:PEB:HMA2	1.95	0.67
8:e2:118:ARG:CZ	7:V2:87:GLU:CD	2.67	0.67
6:M2:5:ILE:O	6:M2:9:VAL:HG22	1.94	0.67
6:H4:68:ASN:O	6:H4:71:GLU:HB2	1.94	0.67
6:H4:75:ASN:HD21	6:H4:77:GLU:HG2	1.58	0.67
6:H4:137:ARG:NH1	29:H4:202:PEB:C1C	2.55	0.67
13:k6:222:GLU:O	4:E7:77:SER:HB2	1.95	0.67
5:N7:72:MEN:CE2	5:N7:122:THR:OG1	2.43	0.67
5:N7:102:SER:N	26:2P:96:VAL:O	2.24	0.67
5:F9:72:MEN:C	5:F9:78:ARG:HH11	2.07	0.67
29:W9:202:PEB:CMA	8:eR:249:TYR:HB3	2.22	0.67
6:GA:30:ASN:O	6:GA:34:SER:CB	2.43	0.67
17:BB:182:GLU:OE2	29:BB:301:PEB:CMD	2.32	0.67
6:dB:9:VAL:HG13	7:eB:95:TYR:CD1	2.29	0.67
6:fB:54:GLU:OE1	29:fB:202:PEB:C2C	2.43	0.67
7:LC:25:GLN:O	7:LC:28:LYS:HB2	1.94	0.67
18:MC:313:THR:O	18:MC:316:TYR:OH	2.12	0.67
7:BE:25:GLN:O	7:BE:28:LYS:HB2	1.94	0.67
18:ME:59:GLU:OE2	18:ME:59:GLU:N	2.28	0.67
18:ME:65:LYS:O	18:ME:66:ASP:C	2.35	0.67
5:JF:150:ILE:HD12	5:JF:150:ILE:O	1.93	0.67
7:FG:137:GLN:OE1	29:FG:203:PEB:C4B	2.42	0.67
7:LG:47:ASN:HB3	7:LG:50:CYS:HB3	1.74	0.67
13:kH:151:VAL:CG1	13:kH:156:THR:CG2	2.71	0.67
3:BI:204:ARG:NH2	21:SP:57:ALA:HB1	2.09	0.67
6:AJ:137:ARG:NH2	29:AJ:202:PEB:C1B	2.56	0.67
7:FJ:113:LEU:HD11	29:FJ:201:PEB:HMD3	1.77	0.67
19:zJ:363:ARG:CD	21:nP:67:ARG:HH12	2.07	0.67
7:PK:3:ASP:OD1	7:PK:99:ALA:CA	2.42	0.67
6:sL:10:SER:HB2	16:xL:82:TYR:H	1.59	0.67
17:yL:111:CYS:O	30:yL:303:PUB:HBA3	1.94	0.67
15:bM:335:ILE:CG2	15:bM:340:GLU:HG2	2.25	0.67
21:DP:15:GLN:HE22	23:WP:137:GLN:HG3	1.59	0.67
20:EP:13:ALA:HB2	25:YP:507:LYS:HB3	1.75	0.67
21:BP:71:MEN:HE21	21:BP:121:VAL:HG22	1.74	0.67
21:nP:16:GLY:HA2	22:xP:90:ARG:CZ	2.24	0.67
20:vP:31:LEU:CB	27:3P:152:ALA:HB1	2.24	0.67
5:J1:20:SER:OG	5:J1:23:GLN:HG3	1.94	0.67
6:S1:17:ARG:O	7:T1:95:TYR:OH	2.12	0.67
29:M2:201:PEB:OD	7:V2:75:THR:HA	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B7:205:ARG:NH1	21:QP:62:TYR:HB2	2.05	0.67
3:B9:121:ASN:ND2	26:ZP:52:GLY:HA3	2.02	0.67
6:Q9:53:LYS:CG	4:EK:49:GLN:CG	2.61	0.67
6:l9:5:ILE:O	6:l9:9:VAL:HG22	1.93	0.67
15:bB:355:LEU:HD23	6:MB:53:LYS:HZ1	1.49	0.67
7:FC:25:GLN:O	7:FC:28:LYS:HB2	1.94	0.67
10:dD:237:LEU:HD21	7:ED:2:LEU:HD21	1.76	0.67
6:BD:33:ARG:NH1	29:ED:201:PEB:HBD1	2.09	0.67
6:FD:161:ASN:HA	6:FD:164:SER:HB2	1.76	0.67
7:GD:91:ARG:HG2	7:GD:95:TYR:CE2	2.29	0.67
7:ID:107:ASP:OD1	7:ID:108:ARG:N	2.28	0.67
6:JD:68:ASN:O	6:JD:71:GLU:HB2	1.94	0.67
7:KD:91:ARG:HG2	7:KD:95:TYR:CE2	2.29	0.67
5:Nf:74:TYR:O	5:Nf:75:THR:CG2	2.42	0.67
7:DG:75:THR:HG22	7:DG:78:ARG:H	1.59	0.67
4:EI:145:GLN:HE21	29:LI:1002:PEB:HMC2	1.55	0.67
5:JI:135:LYS:NZ	27:aP:67:GLY:C	2.52	0.67
6:AJ:37:ARG:HB3	6:AJ:151:GLU:OE1	1.95	0.67
6:iJ:73:GLY:HA2	6:iJ:78:LYS:CB	2.24	0.67
19:zJ:332:LEU:HD23	20:pP:67:SER:CB	2.24	0.67
3:BK:55:PHE:HB3	3:BK:59:GLN:HB2	1.76	0.67
6:ZK:140:VAL:CG1	6:ZK:146:ALA:HA	2.25	0.67
6:ML:140:VAL:O	6:ML:144:MET:O	2.12	0.67
15:bM:384:LEU:CD2	7:FM:125:ASN:HD21	2.08	0.67
7:BO:69:PRO:HG2	7:FO:16:ALA:HB2	1.76	0.67
20:EP:26:ILE:O	20:EP:30:VAL:HG22	1.93	0.67
21:SP:69:GLY:HA2	21:UP:14:VAL:CG2	2.24	0.67
20:vP:127:ALA:HB1	27:3P:250:VAL:HG21	1.75	0.67
8:eR:75:MET:SD	29:NR:201:PEB:C4D	2.82	0.67
4:G1:3:THR:HG21	4:G1:101:VAL:HB	1.76	0.67
4:K1:3:THR:HG21	4:K1:101:VAL:HB	1.76	0.67
6:b1:140:VAL:CG1	6:b1:146:ALA:HA	2.25	0.67
7:m1:126:SER:OG	29:m1:201:PEB:HMA2	1.95	0.67
6:A3:161:ASN:ND2	7:D3:46:SER:O	2.26	0.67
7:L5:79:MET:HE1	13:k6:233:VAL:HG21	1.65	0.67
12:E8:91:MET:HE2	6:ZF:142:ARG:NH1	2.08	0.67
4:E9:79:ILE:HD13	13:kH:220:GLU:HB3	1.77	0.67
4:M9:155:ASP:OD1	4:M9:158:ILE:HD12	1.95	0.67
7:V9:169:PHE:O	7:V9:172:VAL:CG1	2.42	0.67
6:KB:54:GLU:OE1	29:KB:202:PEB:C2C	2.43	0.67
7:VB:84:ARG:NH2	29:VB:201:PEB:NC	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:HF:74:TYR:O	5:HF:75:THR:CG2	2.42	0.67
6:WF:6:THR:HA	7:YF:1:MET:HE2	1.75	0.67
7:FG:137:GLN:CD	29:FG:203:PEB:NB	2.52	0.67
6:KG:50:ALA:HA	6:KG:53:LYS:HE3	1.75	0.67
13:kH:70:MET:HA	13:kH:76:LEU:HD22	1.77	0.67
6:YJ:33:ARG:NH2	29:bJ:202:PEB:OD	2.28	0.67
6:sJ:17:ARG:NH1	6:uJ:106:ASP:OD2	2.27	0.67
3:BK:205:ARG:HH21	20:lP:52:LYS:CE	2.05	0.67
5:NK:145:THR:HG22	29:NK:1002:PEB:HMA2	1.77	0.67
6:QK:140:VAL:CG1	6:QK:146:ALA:HA	2.25	0.67
7:iK:126:SER:OG	29:iK:201:PEB:HMA2	1.95	0.67
6:jK:140:VAL:CG1	6:jK:146:ALA:HA	2.25	0.67
7:PL:113:LEU:HD23	7:PL:176:ILE:CG2	2.23	0.67
6:iL:65:TYR:HE2	6:iL:71:GLU:OE1	1.64	0.67
6:KM:54:GLU:OE1	29:KM:202:PEB:C2C	2.43	0.67
7:VM:84:ARG:NH2	29:VM:201:PEB:NC	2.43	0.67
6:aM:54:GLU:OE1	29:aM:202:PEB:C2C	2.43	0.67
7:cM:149:ARG:NH2	6:dM:157:ASP:OD2	2.23	0.67
6:jM:106:ASP:OD2	6:lM:17:ARG:NH1	2.26	0.67
7:DN:76:ASN:ND2	6:KN:109:GLY:O	2.27	0.67
21:FP:3:ASP:OD1	20:EP:5:THR:OG1	2.09	0.67
20:JP:26:ILE:O	20:JP:30:VAL:HG22	1.94	0.67
20:lP:26:ILE:O	20:lP:30:VAL:HG22	1.93	0.67
20:vP:15:ALA:O	26:2P:148:ARG:NE	2.27	0.67
27:3P:157:ARG:O	27:3P:161:LEU:HG	1.94	0.67
28:4P:45:TYR:O	28:4P:55:VAL:HB	1.93	0.67
6:MR:5:ILE:O	6:MR:9:VAL:HG22	1.94	0.67
7:RR:147:THR:OG1	7:RR:148:GLU:OE1	2.09	0.67
6:W2:65:TYR:CG	6:W2:66:LEU:HD12	2.30	0.67
6:W2:106:ASP:HA	6:W2:110:ILE:HB	1.76	0.67
6:D4:161:ASN:HA	6:D4:164:SER:HB2	1.76	0.67
7:G4:91:ARG:HG2	7:G4:95:TYR:CE2	2.29	0.67
6:H4:29:GLY:O	6:H4:32:GLN:OE1	2.11	0.67
7:K4:157:ASP:OD1	7:K4:158:CYS:N	2.28	0.67
7:C5:161:LEU:HD12	29:C5:202:PEB:CBA	2.20	0.67
13:k6:220:GLU:HB3	4:E7:79:ILE:HD13	1.77	0.67
4:C7:68:GLN:HG2	4:GF:135:TYR:CE1	2.30	0.67
7:I8:74:TYR:CE1	15:bM:238:ARG:CZ	2.78	0.67
6:EA:30:ASN:O	6:EA:34:SER:CB	2.41	0.67
6:UB:67:LYS:CE	14:MG:97:PHE:HZ	1.84	0.67
7:CD:107:ASP:OD1	7:CD:108:ARG:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:30:ASN:OD1	6:DD:37:ARG:NH2	2.24	0.67
7:GD:132:SER:HA	7:GD:135:LYS:HB2	1.76	0.67
7:LE:120:LEU:HD12	18:ME:213:THR:HG22	1.67	0.67
18:ME:236:ASP:OD1	18:ME:236:ASP:N	2.28	0.67
5:JF:11:GLN:NE2	27:3P:119:ALA:HB3	2.09	0.67
6:IJ:147:GLN:CD	29:IJ:203:PEB:HMC2	2.19	0.67
5:JK:11:GLN:HG3	15:bM:333:ARG:NH2	2.07	0.67
7:PK:126:SER:OG	29:PK:201:PEB:HMA2	1.95	0.67
6:IK:140:VAL:CG1	6:IK:146:ALA:HA	2.25	0.67
6:sL:34:SER:HA	6:sL:37:ARG:HG2	1.77	0.67
16:wL:178:ALA:C	16:xL:37:THR:HG21	2.20	0.67
7:NM:25:GLN:HA	7:NM:25:GLN:OE1	1.94	0.67
6:WM:54:GLU:OE1	29:WM:202:PEB:C2C	2.42	0.67
9:OO:381:SER:H	9:OO:394:SER:HB3	1.60	0.67
25:YP:311:SER:HB2	25:YP:388:GLU:O	1.94	0.67
21:fP:17:LYS:C	20:gP:90:ARG:HD2	2.19	0.67
26:2P:109:ASP:O	26:2P:110:LEU:HG	1.95	0.67
7:FQ:51:MET:CA	29:FQ:203:PEB:HAA2	2.25	0.67
5:F1:20:SER:H	5:F1:23:GLN:HE21	1.42	0.67
5:F1:33:GLU:HB3	5:F1:36:GLN:HB2	1.76	0.67
4:M1:93:ARG:NH1	5:N1:16:GLY:C	2.52	0.67
6:Q1:140:VAL:CG1	6:Q1:146:ALA:HA	2.25	0.67
6:S1:140:VAL:CG1	6:S1:146:ALA:HA	2.25	0.67
6:O2:107:GLU:O	7:T2:77:ARG:NE	2.28	0.67
6:O2:115:GLU:HA	6:O2:118:ARG:NE	2.09	0.67
6:Q2:5:ILE:O	6:Q2:9:VAL:HG22	1.94	0.67
6:Q2:142:ARG:HD2	29:Q2:202:PEB:CBA	2.23	0.67
7:M3:87:GLU:OE1	7:M3:91:ARG:NE	2.28	0.67
6:D4:54:GLU:CD	6:D4:137:ARG:HH21	2.02	0.67
7:I4:91:ARG:O	7:I4:94:SER:OG	2.10	0.67
3:B7:130:ILE:HD11	5:L7:84:ARG:HH12	1.60	0.67
4:M7:70:PRO:HB2	20:JP:49:ARG:NH1	2.10	0.67
6:J8:18:PHE:CD2	7:K8:91:ARG:CD	2.77	0.67
4:E9:77:SER:HB2	13:kH:222:GLU:O	1.95	0.67
15:bB:311:GLN:OE1	28:bP:40:ARG:HD2	1.95	0.67
7:NB:170:ASP:CB	28:bP:184:THR:HG22	2.25	0.67
6:WB:54:GLU:OE1	29:WB:202:PEB:C2C	2.42	0.67
6:YB:54:GLU:OE1	29:YB:203:PEB:C2C	2.43	0.67
7:gB:61:CYS:HB2	29:gB:203:PEB:HBD2	1.73	0.67
7:ED:125:ASN:N	7:ED:125:ASN:OD1	2.25	0.67
7:ED:157:ASP:OD1	7:ED:158:CYS:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FD:68:ASN:O	6:FD:71:GLU:HB2	1.94	0.67
7:GD:157:ASP:OD1	7:GD:158:CYS:N	2.28	0.67
7:MD:157:ASP:OD1	7:MD:158:CYS:N	2.28	0.67
5:JF:74:TYR:O	5:JF:75:THR:CG2	2.42	0.67
13:kH:232:PHE:HD2	6:OR:69:PRO:CG	2.05	0.67
5:HI:74:TYR:O	5:HI:75:THR:CG2	2.42	0.67
6:UJ:63:TYR:HB2	6:UJ:66:LEU:HD11	1.75	0.67
6:OK:140:VAL:CG1	6:OK:146:ALA:HA	2.25	0.67
7:VK:163:SER:HB2	14:MN:101:LEU:HD12	0.78	0.67
7:aK:97:LEU:HD13	7:aK:165:VAL:HG23	1.70	0.67
6:fK:5:ILE:CB	7:gK:3:ASP:OD2	2.42	0.67
7:gK:126:SER:OG	29:gK:201:PEB:HMA2	1.95	0.67
6:eL:34:SER:HA	6:eL:37:ARG:HG2	1.77	0.67
16:AM:251:TYR:OH	29:kM:201:PEB:O1C	2.12	0.67
6:EM:36:ALA:CB	6:EM:147:GLN:NE2	2.52	0.67
7:JN:108:ARG:NH1	14:MN:257:THR:HG22	2.09	0.67
6:IO:142:ARG:O	6:IO:143:ASP:C	2.38	0.67
7:MO:87:GLU:OE1	7:MO:91:ARG:NE	2.28	0.67
20:GP:27:LYS:HB2	23:WP:38:LEU:HD13	1.76	0.67
21:MP:60:LEU:HB2	21:MP:65:ILE:HD11	1.77	0.67
20:PP:35:ARG:HB3	26:ZP:120:PHE:HD2	1.60	0.67
21:dP:83:ARG:HH11	25:1P:487:ILE:HA	1.59	0.67
21:nP:60:LEU:HB2	21:nP:65:ILE:HD11	1.77	0.67
6:AQ:14:ALA:O	14:MQ:133:ALA:HA	1.94	0.67
6:AQ:50:ALA:HA	6:AQ:53:LYS:HE3	1.75	0.67
7:FQ:50:CYS:CA	29:FQ:203:PEB:HAA1	2.24	0.67
7:JQ:75:THR:HG22	7:JQ:78:ARG:H	1.59	0.67
7:LQ:47:ASN:HB3	7:LQ:50:CYS:HB3	1.74	0.67
7:LQ:75:THR:HG22	7:LQ:78:ARG:H	1.59	0.67
6:OR:115:GLU:H	6:OR:115:GLU:CD	2.02	0.67
5:D1:145:THR:HG22	29:D1:1002:PEB:HMA2	1.77	0.67
5:H1:35:ASN:HD22	29:H1:1002:PEB:C4C	2.06	0.67
5:H1:145:THR:HG22	29:H1:1002:PEB:C1A	2.24	0.67
4:M1:97:TYR:OH	5:N1:17:GLU:O	2.13	0.67
7:Y1:126:SER:OG	29:Y1:201:PEB:HMA2	1.95	0.67
6:f1:5:ILE:CB	7:g1:3:ASP:OD2	2.42	0.67
8:e2:126:TYR:HD2	7:V2:120:LEU:HD11	1.60	0.67
7:G4:91:ARG:O	7:G4:94:SER:OG	2.09	0.67
7:I4:33:ASP:OD1	7:I4:33:ASP:N	2.24	0.67
6:J4:133:TYR:OH	6:J4:137:ARG:CD	2.39	0.67
6:L4:161:ASN:HA	6:L4:164:SER:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:185:ALA:HB1	6:bI:67:LYS:CE	2.24	0.67
7:C8:72:MEN:O	7:C8:78:ARG:CD	2.33	0.67
5:N9:72:MEN:CE2	5:N9:122:THR:OG1	2.43	0.67
29:AB:302:PEB:HBD1	29:kB:201:PEB:HBC2	1.75	0.67
6:GB:135:ARG:HH12	7:JB:149:ARG:NH1	1.87	0.67
6:MB:54:GLU:OE1	29:MB:202:PEB:C2C	2.42	0.67
7:DC:25:GLN:O	7:DC:28:LYS:HB2	1.94	0.67
6:EC:33:ARG:HA	6:EC:33:ARG:NE	2.09	0.67
6:BD:1:MET:O	6:BD:2:LYS:CG	2.42	0.67
6:BD:161:ASN:HA	6:BD:164:SER:HB2	1.76	0.67
7:CD:157:ASP:OD1	7:CD:158:CYS:N	2.28	0.67
6:HD:81:LYS:HZ1	29:HD:201:PEB:C1C	2.08	0.67
7:KD:107:ASP:OD1	7:KD:108:ARG:N	2.28	0.67
7:TF:85:ASP:OD2	29:TF:201:PEB:CHA	2.42	0.67
6:AJ:54:GLU:CG	6:AJ:133:TYR:OH	2.40	0.67
6:KJ:66:LEU:HD22	29:KJ:201:PEB:CMA	2.25	0.67
6:UJ:70:GLY:HA2	6:UJ:74:GLU:CG	2.22	0.67
6:iJ:34:SER:HA	6:iJ:37:ARG:HG2	1.77	0.67
6:kJ:34:SER:HA	6:kJ:37:ARG:HG2	1.77	0.67
16:xJ:92:LYS:HB3	16:xJ:92:LYS:HZ2	1.59	0.67
5:JK:22:THR:HG21	15:bM:331:ALA:HB3	1.63	0.67
7:VK:126:SER:OG	29:VK:201:PEB:HMA2	1.95	0.67
6:bK:140:VAL:CG1	6:bK:146:ALA:HA	2.25	0.67
7:mK:126:SER:OG	29:mK:201:PEB:HMA2	1.95	0.67
6:cL:34:SER:HA	6:cL:37:ARG:HG2	1.77	0.67
6:kL:34:SER:HA	6:kL:37:ARG:HG2	1.77	0.67
6:MM:54:GLU:OE1	29:MM:202:PEB:C2C	2.42	0.67
6:fM:9:VAL:HG13	7:gM:95:TYR:CD1	2.29	0.67
21:HP:34:GLY:HA3	25:YP:47:LEU:HD13	1.77	0.67
21:MP:10:ASN:ND2	24:XP:129:VAL:O	2.22	0.67
25:1P:311:SER:HB2	25:1P:388:GLU:O	1.94	0.67
6:OR:106:ASP:HA	6:OR:110:ILE:HB	1.77	0.67
6:UR:137:ARG:NH2	29:UR:202:PEB:NB	2.43	0.67
3:B1:24:PRO:HD2	4:E1:15:GLN:HG2	1.77	0.67
5:H1:35:ASN:ND2	29:H1:1002:PEB:C2C	2.56	0.67
6:Z1:140:VAL:CG1	6:Z1:146:ALA:HA	2.25	0.67
7:a1:126:SER:OG	29:a1:201:PEB:HMA2	1.95	0.67
6:f1:140:VAL:CG1	6:f1:146:ALA:HA	2.25	0.67
8:e2:153:GLN:CG	29:e2:402:PEB:HBD1	2.23	0.67
6:U2:5:ILE:O	6:U2:9:VAL:HG22	1.94	0.67
10:d4:133:PRO:HB2	29:E4:201:PEB:C4D	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E4:107:ASP:OD1	7:E4:108:ARG:N	2.28	0.67
7:E4:157:ASP:OD1	7:E4:158:CYS:N	2.28	0.67
7:G4:110:LEU:HD22	7:G4:175:ALA:HB3	1.77	0.67
7:G4:125:ASN:N	7:G4:125:ASN:OD1	2.25	0.67
7:K4:107:ASP:OD1	7:K4:108:ARG:N	2.28	0.67
7:M4:157:ASP:OD1	7:M4:158:CYS:N	2.28	0.67
29:I5:201:PEB:HMC3	15:bB:403:PRO:CG	2.24	0.67
13:k6:102:TYR:CE1	6:Q7:69:PRO:CG	2.78	0.67
13:k6:280:ARG:HG2	13:k6:280:ARG:O	1.95	0.67
6:Q7:5:ILE:O	6:Q7:9:VAL:HG22	1.94	0.67
6:J8:64:ALA:HB1	20:pP:41:GLN:HE22	1.59	0.67
5:L9:65:GLN:OE1	26:ZP:66:ARG:HD2	1.94	0.67
7:DA:76:ASN:ND2	6:KA:109:GLY:O	2.27	0.67
6:OB:54:GLU:OE1	29:OB:202:PEB:C2C	2.42	0.67
18:MC:305:ALA:C	18:MC:307:PRO:CD	2.68	0.67
10:dD:237:LEU:HD11	7:ED:2:LEU:CG	2.24	0.67
10:dD:283:ARG:NE	10:dD:283:ARG:HA	2.10	0.67
7:ED:91:ARG:HG2	7:ED:95:TYR:CE2	2.29	0.67
7:ED:107:ASP:OD1	7:ED:108:ARG:N	2.28	0.67
6:FD:75:ASN:HD21	6:FD:77:GLU:HG2	1.58	0.67
6:HD:68:ASN:O	6:HD:71:GLU:HB2	1.94	0.67
7:ID:91:ARG:HG2	7:ID:95:TYR:CE2	2.29	0.67
7:KD:157:ASP:OD1	7:KD:158:CYS:N	2.28	0.67
7:MD:33:ASP:OD1	7:MD:33:ASP:N	2.24	0.67
7:MD:60:ILE:CG2	7:MD:67:ILE:HD12	2.25	0.67
7:MD:91:ARG:O	7:MD:94:SER:OG	2.09	0.67
7:DE:84:ARG:HH12	18:ME:44:PRO:HD3	1.59	0.67
7:FE:25:GLN:O	7:FE:28:LYS:HB2	1.94	0.67
7:LE:116:THR:HB	18:ME:213:THR:OG1	1.93	0.67
18:ME:281:VAL:HG11	4:CI:85:ALA:C	2.20	0.67
18:ME:305:ALA:C	18:ME:307:PRO:CD	2.68	0.67
7:gF:170:ASP:OD1	7:gF:171:ARG:N	2.27	0.67
7:BG:46:SER:HB2	7:BG:151:MET:HE3	1.77	0.67
6:GG:50:ALA:HA	6:GG:53:LYS:HE3	1.75	0.67
6:IG:111:ALA:HB1	14:MG:252:TYR:CZ	2.30	0.67
5:JI:18:PHE:CE2	27:aP:98:GLN:HG3	2.28	0.67
5:LI:68:GLN:NE2	27:aP:110:SER:HA	2.09	0.67
6:SJ:34:SER:HA	6:SJ:37:ARG:HG2	1.77	0.67
7:nJ:88:ILE:HD11	16:xJ:203:VAL:CB	2.25	0.67
6:sJ:14:ALA:C	16:xJ:87:THR:HA	2.20	0.67
3:BK:200:ALA:O	3:BK:201:SER:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:3:THR:O	4:CK:7:GLU:OE1	2.13	0.67
5:HK:38:LEU:N	5:HK:38:LEU:HD23	2.09	0.67
7:aK:126:SER:OG	29:aK:201:PEB:HMA2	1.95	0.67
6:EL:34:SER:HA	6:EL:37:ARG:HG2	1.77	0.67
6:IL:34:SER:HA	6:IL:37:ARG:HG2	1.77	0.67
7:NL:108:ARG:NH2	16:wL:41:ASN:CB	2.58	0.67
6:UM:54:GLU:OE1	29:MQ:401:PEB:C2C	2.42	0.67
25:YP:553:LYS:HG2	25:YP:559:LEU:HG	1.76	0.67
21:dP:60:LEU:HB2	21:dP:65:ILE:HD11	1.77	0.67
24:zP:57:ILE:HD12	24:zP:102:TYR:CE2	2.30	0.67
28:4P:158:ASP:HA	28:4P:176:LEU:HD23	1.77	0.67
7:JQ:108:ARG:NE	14:MQ:257:THR:HG22	2.10	0.67
6:SR:5:ILE:O	6:SR:9:VAL:HG22	1.94	0.67
4:I1:3:THR:HG21	4:I1:101:VAL:HB	1.76	0.67
6:d1:140:VAL:CG1	6:d1:146:ALA:HA	2.25	0.67
6:E3:42:GLU:CD	6:E3:42:GLU:C	2.63	0.67
7:I4:129:ARG:NH2	7:I4:132:SER:OG	2.28	0.67
6:J4:68:ASN:O	6:J4:71:GLU:HB2	1.94	0.67
6:J4:161:ASN:HA	6:J4:164:SER:HB2	1.76	0.67
7:K5:1:MET:HE3	7:K5:95:TYR:OH	1.95	0.67
7:C5:67:ILE:O	7:C5:74:TYR:HD1	1.78	0.67
13:k6:135:LEU:HG	13:k6:135:LEU:O	1.94	0.67
7:B8:108:ARG:HA	7:B8:108:ARG:NE	2.10	0.67
3:B9:44:ASP:OD2	5:F9:77:ARG:NH2	2.27	0.67
6:IA:38:LEU:O	6:IA:42:GLU:OE1	2.14	0.67
6:GB:135:ARG:NH1	7:JB:149:ARG:HH12	1.91	0.67
6:UB:54:GLU:OE1	29:UB:202:PEB:C2C	2.42	0.67
6:aB:54:GLU:OE1	29:aB:202:PEB:C2C	2.43	0.67
7:ID:157:ASP:OD1	7:ID:158:CYS:N	2.28	0.67
7:MD:110:LEU:HD22	7:MD:175:ALA:HB3	1.77	0.67
4:EF:108:ASP:HA	4:EF:112:VAL:HG22	1.77	0.67
7:BG:75:THR:HG22	7:BG:78:ARG:H	1.59	0.67
7:DG:46:SER:HB2	7:DG:151:MET:HE3	1.77	0.67
13:kH:25:TRP:O	13:kH:29:THR:HG22	1.95	0.67
6:CJ:34:SER:HA	6:CJ:37:ARG:HG2	1.77	0.67
16:xJ:136:SER:HA	16:xJ:139:GLU:HG2	1.77	0.67
5:FK:153:CYS:O	5:FK:157:VAL:HG13	1.94	0.67
5:JK:29:LYS:O	5:JK:29:LYS:NZ	2.26	0.67
4:KK:3:THR:HG21	4:KK:101:VAL:HB	1.76	0.67
6:WK:140:VAL:CG1	6:WK:146:ALA:HA	2.25	0.67
7:cK:126:SER:OG	29:cK:201:PEB:HMA2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:dK:140:VAL:CG1	6:dK:146:ALA:HA	2.25	0.67
6:fK:140:VAL:CG1	6:fK:146:ALA:HA	2.25	0.67
6:CL:70:GLY:H	6:CL:74:GLU:CG	2.07	0.67
6:ML:34:SER:HA	6:ML:37:ARG:HG2	1.77	0.67
6:gL:34:SER:HA	6:gL:37:ARG:HG2	1.77	0.67
16:wL:136:SER:HA	16:wL:139:GLU:HG2	1.77	0.67
6:fM:54:GLU:OE1	29:fM:202:PEB:C2C	2.43	0.67
20:GP:26:ILE:O	20:GP:30:VAL:HG22	1.94	0.67
21:HP:1:MET:HE2	21:HP:103:ILE:HD12	1.75	0.67
24:XP:57:ILE:HD12	24:XP:102:TYR:CE2	2.30	0.67
21:fP:60:LEU:HB2	21:fP:65:ILE:HD11	1.77	0.67
21:uP:68:PRO:HB3	21:wP:13:ASP:O	1.95	0.67
8:eR:217:GLU:OE2	7:TR:88:ILE:HD11	1.95	0.67
6:OR:115:GLU:HA	6:OR:118:ARG:NE	2.09	0.67
3:B1:25:GLY:HA3	4:K1:2:LYS:HD3	1.76	0.66
4:G1:114:GLY:O	4:G1:118:ILE:HG12	1.95	0.66
7:V1:126:SER:OG	29:V1:201:PEB:HMA2	1.95	0.66
6:b1:5:ILE:CB	7:c1:3:ASP:OD2	2.41	0.66
6:f1:28:GLN:CD	6:h1:33:ARG:HH11	2.02	0.66
6:O2:106:ASP:HA	6:O2:110:ILE:HB	1.77	0.66
7:B3:115:GLU:HB3	9:O3:277:GLU:HB3	1.75	0.66
9:O3:381:SER:H	9:O3:394:SER:HB3	1.60	0.66
7:G4:107:ASP:OD1	7:G4:108:ARG:N	2.28	0.66
7:K4:110:LEU:HD22	7:K4:175:ALA:HB3	1.78	0.66
7:B5:104:VAL:CA	18:MC:265:LYS:HG3	2.26	0.66
7:B5:104:VAL:HG21	18:MC:266:GLY:HA2	1.72	0.66
7:G5:149:ARG:HH21	7:k9:150:LYS:CD	2.08	0.66
12:E5:142:VAL:O	12:E5:152:VAL:HA	1.95	0.66
13:k6:25:TRP:O	13:k6:29:THR:HG22	1.95	0.66
3:B7:59:GLN:O	3:B7:64:THR:OG1	2.11	0.66
7:I8:14:ALA:HB1	21:nP:123:ILE:N	2.09	0.66
7:K8:142:ILE:HG21	7:K8:162:ALA:HA	1.77	0.66
4:C9:68:GLN:HG2	4:GI:135:TYR:CE1	2.30	0.66
18:MC:59:GLU:OE2	18:MC:59:GLU:N	2.28	0.66
10:dD:315:SER:O	10:dD:318:SER:OG	2.13	0.66
7:CD:110:LEU:HD22	7:CD:175:ALA:HB3	1.77	0.66
6:DD:75:ASN:HD21	6:DD:77:GLU:HG2	1.58	0.66
7:GD:107:ASP:OD1	7:GD:108:ARG:N	2.28	0.66
5:JI:22:THR:CB	27:aP:92:PRO:CG	2.66	0.66
7:VJ:155:ALA:H	7:NO:71:GLY:HA2	1.59	0.66
16:wJ:52:THR:OG1	16:wJ:55:GLN:OE1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:114:GLY:O	4:GK:118:ILE:HG12	1.95	0.66
5:NK:39:ASP:OD1	5:NK:39:ASP:N	2.22	0.66
7:kK:126:SER:OG	29:kK:201:PEB:HMA2	1.95	0.66
6:GL:34:SER:HA	6:GL:37:ARG:HG2	1.77	0.66
16:wL:86:CYS:SG	30:wL:305:PUB:CAA	2.82	0.66
6:OM:54:GLU:OE1	29:OM:202:PEB:C2C	2.42	0.66
6:GN:30:ASN:O	6:GN:34:SER:CB	2.43	0.66
21:DP:60:LEU:HB2	21:DP:65:ILE:HD11	1.77	0.66
21:MP:1:MET:HE2	21:MP:103:ILE:HD12	1.75	0.66
21:OP:62:TYR:CZ	22:VP:80:LEU:HD13	2.29	0.66
21:UP:106:GLU:OE2	25:YP:875:ILE:HG21	1.95	0.66
21:qP:10:ASN:ND2	28:4P:49:GLY:O	2.26	0.66
21:wP:60:LEU:HB2	21:wP:65:ILE:HD11	1.77	0.66
6:IQ:14:ALA:HA	14:MQ:260:ALA:HA	1.77	0.66
6:MR:81:LYS:NZ	29:MR:201:PEB:O1B	2.25	0.66
3:B1:200:ALA:O	3:B1:201:SER:HB3	1.95	0.66
6:h1:140:VAL:CG1	6:h1:146:ALA:HA	2.25	0.66
6:W2:142:ARG:NH2	29:W2:202:PEB:HHA1	2.09	0.66
7:C4:23:ASP:N	7:C4:23:ASP:OD1	2.25	0.66
6:D4:5:ILE:O	6:D4:9:VAL:HG13	1.96	0.66
7:E4:59:MET:HE1	7:E4:130:ALA:CB	2.19	0.66
7:G4:157:ASP:OD1	7:G4:158:CYS:N	2.28	0.66
7:I4:107:ASP:OD1	7:I4:108:ARG:N	2.28	0.66
7:I4:133:ILE:HD11	29:I4:203:PEB:C3C	2.26	0.66
7:M4:7:ARG:HA	7:M4:7:ARG:NE	2.11	0.66
3:B7:21:GLU:HB2	4:M7:113:ALA:HB1	1.77	0.66
6:U9:76:GLN:OE1	13:kH:260:GLY:HA3	1.95	0.66
7:m9:173:GLY:O	7:m9:177:SER:OG	2.08	0.66
7:JC:25:GLN:O	7:JC:28:LYS:HB2	1.94	0.66
6:HD:29:GLY:O	6:HD:32:GLN:OE1	2.12	0.66
7:ID:129:ARG:NH2	7:ID:132:SER:OG	2.28	0.66
7:LE:25:GLN:O	7:LE:28:LYS:HB2	1.94	0.66
5:JF:75:THR:OG1	5:JF:78:ARG:N	2.21	0.66
5:JF:136:ASP:HB3	27:3P:67:GLY:O	1.93	0.66
13:kH:109:GLU:CD	4:EK:67:THR:CG2	2.68	0.66
3:BI:58:HIS:ND1	31:JI:1001:CYC:O1A	2.27	0.66
4:KI:97:TYR:OH	5:LI:17:GLU:O	2.12	0.66
6:KJ:34:SER:HA	6:KJ:37:ARG:HG2	1.77	0.66
6:sJ:14:ALA:CB	16:xJ:86:CYS:O	2.40	0.66
4:GK:111:LEU:HD12	31:GK:1001:CYC:HAB2	1.77	0.66
5:JK:16:GLY:O	15:bM:340:GLU:OE1	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JK:33:GLU:CD	5:JK:156:LEU:CG	2.69	0.66
6:SK:140:VAL:CG1	6:SK:146:ALA:HA	2.25	0.66
7:FL:113:LEU:HD11	29:FL:201:PEB:HMD3	1.77	0.66
19:zL:212:PHE:CD1	19:zL:216:TYR:OH	2.40	0.66
15:bM:333:ARG:CG	15:bM:333:ARG:HH11	2.08	0.66
6:IN:38:LEU:O	6:IN:42:GLU:OE1	2.14	0.66
6:EO:42:GLU:CD	6:EO:42:GLU:C	2.63	0.66
22:VP:95:ALA:HB2	22:VP:104:LEU:HG	1.76	0.66
21:fP:16:GLY:HA2	20:gP:90:ARG:NH2	2.10	0.66
20:iP:26:ILE:O	20:iP:30:VAL:HG22	1.93	0.66
7:BQ:50:CYS:HG	29:BQ:203:PEB:CBA	1.86	0.66
6:MR:106:ASP:OD2	6:OR:17:ARG:NH1	2.26	0.66
6:QR:138:LEU:HB3	29:QR:202:PEB:HMD3	1.75	0.66
6:WR:140:VAL:HG11	6:WR:146:ALA:HA	1.75	0.66
1:X1:237:ALA:HB1	7:Y1:116:THR:HG23	1.78	0.66
5:J1:33:GLU:CD	5:J1:156:LEU:CG	2.69	0.66
7:T1:126:SER:OG	29:T1:201:PEB:HMA2	1.95	0.66
6:W1:140:VAL:CG1	6:W1:146:ALA:HA	2.25	0.66
6:Q2:106:ASP:HA	6:Q2:110:ILE:HB	1.76	0.66
6:B4:29:GLY:C	6:B4:32:GLN:HE22	2.04	0.66
7:C4:74:TYR:OH	6:F4:91:ARG:NH2	2.29	0.66
7:M4:107:ASP:OD1	7:M4:108:ARG:N	2.28	0.66
7:I8:27:LEU:CD2	19:zJ:298:ALA:HB3	2.26	0.66
15:bB:370:TYR:OH	21:MP:58:LYS:HE3	1.95	0.66
6:IB:54:GLU:HG3	29:IB:202:PEB:CAC	2.20	0.66
6:IC:130:SER:O	6:IC:134:THR:HG23	1.94	0.66
10:dD:89:MET:N	10:dD:92:GLU:OE1	2.25	0.66
6:DD:113:ALA:HB2	7:ID:76:ASN:HD21	1.58	0.66
6:HD:161:ASN:HA	6:HD:164:SER:HB2	1.76	0.66
6:LD:5:ILE:O	6:LD:9:VAL:HG13	1.96	0.66
6:LD:161:ASN:HA	6:LD:164:SER:HB2	1.76	0.66
7:JE:25:GLN:O	7:JE:28:LYS:HB2	1.94	0.66
18:ME:301:ASN:ND2	6:gL:53:LYS:HZ2	1.92	0.66
18:ME:303:PHE:CE2	6:gL:83:TYR:OH	2.48	0.66
7:JG:46:SER:HB2	7:JG:151:MET:HE3	1.77	0.66
7:LG:112:GLY:HA2	14:MG:232:LYS:HG2	1.76	0.66
6:qJ:13:ASP:OD2	7:rJ:108:ARG:NH1	2.25	0.66
19:zJ:363:ARG:HH21	31:pP:1001:CYC:CGA	2.08	0.66
7:ZL:108:ARG:CD	16:xL:41:ASN:HB3	2.24	0.66
6:cL:137:ARG:NH2	29:cL:202:PEB:NA	2.42	0.66
6:iL:73:GLY:HA2	6:iL:78:LYS:CB	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BM:81:ALA:HB2	7:RM:115:GLU:OE2	1.95	0.66
7:BN:20:GLY:O	7:BN:24:LEU:HB2	1.95	0.66
20:AP:97:ILE:HG21	21:BP:27:LEU:HD13	1.77	0.66
21:nP:73:TYR:OH	20:pP:90:ARG:NH2	2.26	0.66
21:sP:60:LEU:HB2	21:sP:65:ILE:HD11	1.77	0.66
21:uP:60:LEU:HB2	21:uP:65:ILE:HD11	1.77	0.66
7:FQ:140:ALA:CB	29:FQ:203:PEB:HAB2	2.25	0.66
7:HQ:141:PHE:CE2	29:HQ:203:PEB:HMB3	2.31	0.66
6:KQ:50:ALA:HA	6:KQ:53:LYS:HE3	1.75	0.66
7:PR:147:THR:OG1	7:PR:148:GLU:OE1	2.09	0.66
6:QR:5:ILE:O	6:QR:9:VAL:HG22	1.94	0.66
6:WR:114:ARG:C	6:WR:118:ARG:HH21	2.04	0.66
6:WR:137:ARG:HD2	6:WR:137:ARG:O	1.95	0.66
4:E1:145:GLN:HA	4:E1:145:GLN:OE1	1.96	0.66
4:E1:155:ASP:CG	5:L1:46:SER:HB2	2.21	0.66
5:H1:145:THR:O	5:H1:148:THR:HG22	1.96	0.66
5:J1:12:ALA:CB	5:J1:19:LEU:CD2	2.72	0.66
6:O1:140:VAL:CG1	6:O1:146:ALA:HA	2.25	0.66
7:P1:3:ASP:OD1	7:P1:99:ALA:CA	2.42	0.66
6:M2:106:ASP:HA	6:M2:110:ILE:HB	1.76	0.66
7:P2:69:PRO:CG	7:X2:16:ALA:HB2	2.24	0.66
6:S2:118:ARG:HH11	6:U2:114:ARG:HH11	1.43	0.66
6:B4:161:ASN:HA	6:B4:164:SER:HB2	1.76	0.66
7:C4:157:ASP:OD1	7:C4:158:CYS:N	2.28	0.66
7:M4:60:ILE:CG2	7:M4:67:ILE:HD12	2.25	0.66
7:B5:104:VAL:HA	18:MC:265:LYS:O	1.95	0.66
4:M7:79:ILE:CD1	20:JP:41:GLN:NE2	2.59	0.66
7:K8:1:MET:HE1	7:K8:95:TYR:OH	1.95	0.66
12:E8:142:VAL:O	12:E8:152:VAL:HA	1.95	0.66
12:E8:162:ASN:N	29:kF:203:PEB:O2B	2.27	0.66
6:AA:30:ASN:O	6:AA:34:SER:CB	2.43	0.66
6:AA:38:LEU:HD23	7:BA:28:LYS:HG3	1.77	0.66
6:CA:28:GLN:O	6:CA:32:GLN:NE2	2.29	0.66
15:bB:376:GLU:CD	28:bP:41:THR:HA	2.20	0.66
7:FB:83:LEU:HD12	6:MB:116:VAL:HG12	1.76	0.66
7:BC:25:GLN:O	7:BC:28:LYS:HB2	1.94	0.66
6:CC:33:ARG:NE	6:CC:33:ARG:HA	2.11	0.66
10:dD:115:ARG:HH11	10:dD:175:VAL:HG13	1.59	0.66
6:BD:9:VAL:HG11	7:CD:95:TYR:CD1	2.30	0.66
6:DD:161:ASN:HA	6:DD:164:SER:HB2	1.76	0.66
7:ED:110:LEU:HD22	7:ED:175:ALA:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ID:157:ASP:OD1	7:ID:159:THR:N	2.21	0.66
7:MD:124:THR:H	6:UI:69:PRO:HG2	0.51	0.66
7:MD:133:ILE:HG13	29:MD:203:PEB:HBC1	1.77	0.66
18:ME:56:VAL:HG21	18:ME:59:GLU:OE1	1.95	0.66
18:ME:284:LEU:HD11	5:DI:18:PHE:CZ	2.30	0.66
6:WF:6:THR:HA	7:YF:1:MET:CE	2.24	0.66
6:WF:9:VAL:HG21	7:YF:1:MET:HE2	1.63	0.66
7:DG:50:CYS:SG	29:DG:203:PEB:HAA1	2.35	0.66
6:EG:14:ALA:HB1	14:MG:189:LYS:HD3	1.77	0.66
6:EJ:161:ASN:CG	7:HJ:49:SER:HG	2.04	0.66
7:LJ:26:ALA:HB1	28:4P:231:ILE:HG13	1.76	0.66
7:RJ:113:LEU:HD23	7:RJ:176:ILE:HG22	1.74	0.66
7:VJ:154:ALA:CB	7:NO:70:GLY:O	2.37	0.66
6:WJ:34:SER:HA	6:WJ:37:ARG:HG2	1.77	0.66
19:zJ:363:ARG:CD	21:nP:62:TYR:CG	2.31	0.66
3:BK:25:GLY:HA3	4:KK:2:LYS:HD3	1.76	0.66
6:hK:140:VAL:CG1	6:hK:146:ALA:HA	2.25	0.66
6:AL:37:ARG:HB3	6:AL:151:GLU:OE1	1.95	0.66
19:zL:363:ARG:HD3	21:LP:62:TYR:CD1	1.99	0.66
15:bM:311:GLN:HE22	28:4P:40:ARG:HG2	1.60	0.66
7:PM:70:GLY:O	7:mM:125:ASN:ND2	2.28	0.66
29:FN:201:PEB:CGC	14:MN:174:ARG:NH1	2.39	0.66
20:AP:144:GLU:N	20:AP:144:GLU:OE1	2.29	0.66
21:LP:60:LEU:HB2	21:LP:65:ILE:HD11	1.77	0.66
20:RP:144:GLU:N	20:RP:144:GLU:OE1	2.29	0.66
21:SP:60:LEU:HB2	21:SP:65:ILE:HD11	1.77	0.66
20:gP:144:GLU:N	20:gP:144:GLU:OE1	2.29	0.66
6:GQ:50:ALA:HA	6:GQ:53:LYS:HE3	1.75	0.66
8:eR:108:HIS:CE1	7:PR:85:ASP:OD1	2.46	0.66
8:eR:239:LYS:HZ1	7:PR:120:LEU:CD2	2.06	0.66
6:U1:140:VAL:CG1	6:U1:146:ALA:HA	2.25	0.66
7:i1:126:SER:OG	29:i1:201:PEB:HMA2	1.95	0.66
29:e2:401:PEB:H2A1	7:P2:59:MET:CE	2.24	0.66
7:N3:77:ARG:HH12	9:O3:361:PRO:HD3	1.61	0.66
10:d4:298:TYR:CE2	5:FF:17:GLU:CB	2.78	0.66
6:B4:1:MET:O	6:B4:2:LYS:CG	2.42	0.66
6:B4:68:ASN:O	6:B4:71:GLU:HB2	1.94	0.66
7:C4:7:ARG:HA	7:C4:7:ARG:NE	2.11	0.66
7:C4:91:ARG:O	7:C4:94:SER:OG	2.09	0.66
7:E4:157:ASP:OD1	7:E4:159:THR:N	2.21	0.66
7:I5:27:LEU:HD23	19:zL:295:LYS:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:250:VAL:HG23	13:k6:250:VAL:O	1.96	0.66
12:E8:173:PHE:CE2	6:ZF:83:TYR:HE2	2.11	0.66
3:B9:123:ARG:NH1	26:ZP:53:ILE:HD13	2.11	0.66
4:K9:54:GLY:HA2	5:JI:150:ILE:HG21	1.77	0.66
10:dD:285:VAL:CG1	29:TI:202:PEB:O2B	2.44	0.66
7:CD:125:ASN:N	7:CD:125:ASN:OD1	2.25	0.66
6:DD:5:ILE:O	6:DD:9:VAL:HG13	1.96	0.66
6:DD:51:VAL:HG12	6:DD:137:ARG:HH12	1.61	0.66
7:BE:74:TYR:HB3	7:BE:78:ARG:HH11	1.61	0.66
18:ME:281:VAL:CG2	4:CI:52:ILE:HG21	2.21	0.66
14:MG:235:GLU:O	14:MG:239:LYS:HG2	1.96	0.66
13:kH:94:LEU:CD1	13:kH:120:ILE:CD1	2.74	0.66
1:XI:94:TYR:CD1	7:TI:84:ARG:NH1	2.63	0.66
5:JI:22:THR:C	27:aP:92:PRO:HG2	2.21	0.66
6:uJ:34:SER:HA	6:uJ:37:ARG:HG2	1.77	0.66
7:vJ:111:ASN:O	16:xJ:63:TYR:CD1	2.49	0.66
3:BK:200:ALA:HA	20:IP:66:VAL:O	1.96	0.66
4:MK:3:THR:HG21	4:MK:101:VAL:HB	1.76	0.66
7:TK:126:SER:OG	29:TK:201:PEB:HMA2	1.95	0.66
7:YK:126:SER:OG	29:YK:201:PEB:HMA2	1.95	0.66
6:ML:33:ARG:NH1	6:ML:147:GLN:NE2	2.35	0.66
6:aL:34:SER:HA	6:aL:37:ARG:HG2	1.77	0.66
15:bM:358:LEU:HD23	20:mP:75:GLU:OE1	1.96	0.66
7:NM:113:LEU:HD12	7:NM:113:LEU:O	1.94	0.66
29:FN:201:PEB:O2C	14:MN:174:ARG:NH1	2.27	0.66
7:NO:59:MET:HE3	7:NO:126:SER:HB2	1.78	0.66
20:CP:144:GLU:N	20:CP:144:GLU:OE1	2.29	0.66
21:BP:60:LEU:HB2	21:BP:65:ILE:HD11	1.77	0.66
20:GP:144:GLU:N	20:GP:144:GLU:OE1	2.29	0.66
21:HP:60:LEU:HB2	21:HP:65:ILE:HD11	1.77	0.66
21:IP:38:VAL:HG13	20:JP:23:LEU:HD22	1.77	0.66
26:ZP:109:ASP:O	26:ZP:110:LEU:HG	1.95	0.66
21:dP:72:MET:HA	21:dP:77:ARG:HB3	1.75	0.66
21:jP:60:LEU:HB2	21:jP:65:ILE:HD11	1.77	0.66
21:qP:60:LEU:HB2	21:qP:65:ILE:HD11	1.77	0.66
21:sP:75:THR:HA	20:vP:115:MET:HE3	1.78	0.66
23:yP:111:ASP:HA	23:yP:115:LEU:HB2	1.78	0.66
7:BQ:93:VAL:O	7:BQ:97:LEU:HG	1.96	0.66
7:BQ:140:ALA:CB	29:BQ:203:PEB:HBB2	2.19	0.66
7:HQ:141:PHE:CE1	29:HQ:203:PEB:CMA	2.78	0.66
6:QR:54:GLU:OE2	29:QR:202:PEB:CAC	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:39:ASP:H	29:D3:202:PEB:HMD1	1.59	0.66
7:L3:164:GLU:CD	7:K5:79:MET:HE1	2.20	0.66
10:d4:89:MET:N	10:d4:92:GLU:OE1	2.25	0.66
7:C4:107:ASP:OD1	7:C4:108:ARG:N	2.28	0.66
7:G4:55:ALA:O	7:G4:59:MET:HB2	1.96	0.66
6:H4:5:ILE:O	6:H4:9:VAL:HG13	1.96	0.66
6:J5:9:VAL:CG2	7:K5:95:TYR:CE1	2.76	0.66
7:A5:76:ASN:HD22	7:C5:119:ALA:HB1	1.61	0.66
3:B7:32:TYR:HB3	3:B7:46:ILE:HG12	1.78	0.66
3:B7:44:ASP:OD1	3:B7:74:ARG:NH2	2.20	0.66
6:KA:16:GLY:N	14:MA:247:LYS:HD2	2.11	0.66
7:FC:74:TYR:HB3	7:FC:78:ARG:HH11	1.61	0.66
7:HC:25:GLN:O	7:HC:28:LYS:HB2	1.94	0.66
18:MC:144:ARG:H	18:MC:144:ARG:CD	2.03	0.66
10:dD:226:ARG:NH1	6:WI:46:GLY:O	2.28	0.66
18:ME:144:ARG:H	18:ME:144:ARG:HD2	1.58	0.66
7:BG:97:LEU:CD2	7:BG:168:TYR:HD2	2.09	0.66
6:EG:26:SER:HA	6:GG:26:SER:HA	1.76	0.66
7:JG:75:THR:HG22	7:JG:78:ARG:H	1.59	0.66
13:kH:135:LEU:HG	13:kH:135:LEU:O	1.94	0.66
13:kH:247:PRO:HA	6:OR:80:ASN:OD1	1.94	0.66
16:xJ:165:ARG:NH1	29:xJ:303:PEB:NB	2.44	0.66
1:XK:237:ALA:HB1	7:YK:116:THR:HG23	1.78	0.66
5:HK:145:THR:O	5:HK:148:THR:HG22	1.96	0.66
6:lK:52:VAL:HG21	6:lK:87:ASP:HA	1.76	0.66
7:HL:66:LEU:CD1	7:HL:126:SER:OG	2.37	0.66
6:YL:34:SER:HA	6:YL:37:ARG:HG2	1.77	0.66
6:uL:34:SER:HA	6:uL:37:ARG:HG2	1.77	0.66
6:KN:38:LEU:CB	7:LN:24:LEU:CD2	2.74	0.66
20:JP:144:GLU:OE1	20:JP:144:GLU:N	2.29	0.66
20:PP:90:ARG:NH2	21:SP:73:TYR:OH	2.27	0.66
27:aP:157:ARG:O	27:aP:161:LEU:HG	1.94	0.66
6:SR:106:ASP:HA	6:SR:110:ILE:HB	1.77	0.66
6:SR:142:ARG:HG2	6:SR:143:ASP:N	2.10	0.66
5:H1:145:THR:CG2	29:H1:1002:PEB:HMA2	2.25	0.66
7:T2:106:GLU:CG	7:T2:110:LEU:CD1	2.65	0.66
6:A3:42:GLU:OE2	7:B3:24:LEU:HD12	1.95	0.66
10:d4:270:ARG:HD2	10:d4:273:ILE:HG12	1.78	0.66
7:E4:7:ARG:HA	7:E4:7:ARG:NE	2.10	0.66
7:E4:110:LEU:HD22	7:E4:175:ALA:HB3	1.78	0.66
7:K4:147:THR:N	29:K4:203:PEB:O1B	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:68:ASN:O	6:L4:71:GLU:HB2	1.94	0.66
7:G5:149:ARG:NE	7:k9:150:LYS:HZ2	1.73	0.66
7:I5:21:GLY:O	7:I5:23:ASP:OD1	2.14	0.66
7:C8:67:ILE:O	7:C8:74:TYR:HD1	1.78	0.66
4:E9:90:TYR:CD1	8:eR:297:GLY:O	2.49	0.66
6:Q9:69:PRO:CG	13:kH:102:TYR:CE1	2.78	0.66
6:KA:38:LEU:HG	7:LA:24:LEU:HD23	0.66	0.66
17:BB:81:ALA:HB2	7:RB:115:GLU:OE2	1.95	0.66
10:dD:284:LEU:HD11	10:dD:287:ARG:HH12	1.60	0.66
7:CD:7:ARG:HA	7:CD:7:ARG:NE	2.11	0.66
6:DD:68:ASN:O	6:DD:71:GLU:HB2	1.94	0.66
7:KD:77:ARG:NH2	7:KD:78:ARG:HG3	2.10	0.66
7:MD:129:ARG:NH2	7:MD:132:SER:OG	2.29	0.66
7:HE:74:TYR:HB3	7:HE:78:ARG:HH11	1.61	0.66
7:JE:74:TYR:HB3	7:JE:78:ARG:HH11	1.61	0.66
18:ME:232:MET:CB	18:ME:236:ASP:CB	2.59	0.66
4:KF:108:ASP:HA	4:KF:112:VAL:HG22	1.77	0.66
7:eF:56:VAL:HG23	7:eF:59:MET:CE	2.26	0.66
7:FG:56:VAL:O	7:FG:60:ILE:CG2	2.36	0.66
4:CI:28:ASN:ND2	29:DI:1002:PEB:OD	2.28	0.66
5:JI:18:PHE:CD2	27:aP:98:GLN:HB2	2.31	0.66
6:WI:6:THR:HA	7:YI:1:MET:CE	2.24	0.66
6:WJ:65:TYR:HA	6:WJ:68:ASN:HD21	1.61	0.66
6:aJ:34:SER:HA	6:aJ:37:ARG:HG2	1.77	0.66
6:qJ:34:SER:HA	6:qJ:37:ARG:HG2	1.77	0.66
5:DK:145:THR:HG22	29:DK:1002:PEB:HMA2	1.77	0.66
4:MK:94:MET:HG3	4:MK:111:LEU:CG	2.26	0.66
7:FL:159:THR:HG21	25:1P:513:GLY:HA3	1.77	0.66
6:GL:53:LYS:NZ	19:zL:347:VAL:O	2.28	0.66
6:KL:66:LEU:HD22	29:KL:201:PEB:CMA	2.25	0.66
15:bM:343:PHE:CE2	20:mP:63:PRO:C	2.73	0.66
6:KN:30:ASN:O	6:KN:34:SER:CB	2.43	0.66
20:EP:144:GLU:N	20:EP:144:GLU:OE1	2.29	0.66
20:KP:107:ILE:HD13	21:OP:13:ASP:CG	2.21	0.66
20:NP:144:GLU:OE1	20:NP:144:GLU:N	2.29	0.66
21:qP:87:TYR:OH	24:zP:87:LEU:HB2	1.95	0.66
29:MR:201:PEB:OD	7:VR:75:THR:HA	1.94	0.66
6:OR:107:GLU:O	7:TR:77:ARG:NE	2.28	0.66
6:SR:51:VAL:HG12	6:SR:137:ARG:HH22	0.83	0.66
6:SR:138:LEU:HD12	6:SR:143:ASP:OD2	1.96	0.66
6:UR:138:LEU:CB	29:UR:202:PEB:HMD1	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e2:118:ARG:NH2	7:V2:87:GLU:OE2	2.28	0.66
6:Q2:2:LYS:HZ1	6:S2:17:ARG:HH21	1.43	0.66
7:N3:66:LEU:CD1	7:VL:155:ALA:HB2	2.19	0.66
7:K4:55:ALA:O	7:K4:59:MET:HB2	1.96	0.66
7:K5:36:LYS:CB	7:K5:161:LEU:HD11	2.26	0.66
13:k6:70:MET:HA	13:k6:76:LEU:HD22	1.77	0.66
4:M7:155:ASP:OD1	4:M7:158:ILE:HD12	1.95	0.66
7:A8:161:LEU:HD11	29:A8:202:PEB:CBA	2.26	0.66
5:H9:77:ARG:NH1	31:H9:1001:CYC:O2D	2.24	0.66
4:K9:50:ARG:HH12	3:BI:228:MET:CG	2.09	0.66
7:BA:20:GLY:O	7:BA:24:LEU:HB2	1.95	0.66
15:bB:343:PHE:CZ	20:KP:64:ASP:CA	2.79	0.66
6:EB:54:GLU:OE2	6:EB:137:ARG:CD	2.42	0.66
6:DD:151:GLU:H	6:DD:151:GLU:CD	2.04	0.66
6:JD:4:VAL:O	6:JD:7:THR:OG1	2.14	0.66
7:MD:55:ALA:O	7:MD:59:MET:HB2	1.96	0.66
18:ME:301:ASN:O	6:gL:53:LYS:HB2	1.95	0.66
7:BG:93:VAL:O	7:BG:97:LEU:HG	1.96	0.66
7:FG:75:THR:HG22	7:FG:78:ARG:H	1.59	0.66
7:FG:141:PHE:CD2	29:FG:203:PEB:HMB2	2.30	0.66
1:XI:117:LEU:HG	1:XI:118:LYS:HD3	1.77	0.66
7:cI:1:MET:HG3	7:cI:104:VAL:HG23	0.73	0.66
6:GJ:34:SER:HA	6:GJ:37:ARG:HG2	1.77	0.66
6:IJ:34:SER:HA	6:IJ:37:ARG:HG2	1.77	0.66
6:oJ:34:SER:HA	6:oJ:37:ARG:HG2	1.77	0.66
7:VK:163:SER:HB3	14:MN:101:LEU:HB2	1.77	0.66
6:CL:94:ASN:HD22	7:DL:18:TYR:HB3	1.61	0.66
6:QL:34:SER:HA	6:QL:37:ARG:HG2	1.77	0.66
6:SL:34:SER:HA	6:SL:37:ARG:HG2	1.77	0.66
6:iL:34:SER:HA	6:iL:37:ARG:HG2	1.77	0.66
6:mL:34:SER:HA	6:mL:37:ARG:HG2	1.77	0.66
16:xL:52:THR:OG1	16:xL:55:GLN:OE1	2.13	0.66
15:bM:407:THR:HG22	28:4P:81:VAL:CG1	2.26	0.66
7:VM:82:CYS:O	7:VM:85:ASP:OD1	2.14	0.66
6:AN:30:ASN:O	6:AN:34:SER:CB	2.43	0.66
21:dP:17:LYS:HE3	23:yP:134:ARG:HD2	1.77	0.66
20:iP:144:GLU:N	20:iP:144:GLU:OE1	2.29	0.66
20:mP:144:GLU:N	20:mP:144:GLU:OE1	2.29	0.66
7:HQ:75:THR:HG22	7:HQ:78:ARG:H	1.59	0.66
6:WR:106:ASP:HA	6:WR:110:ILE:HB	1.76	0.66
5:N1:19:LEU:CD1	5:N1:23:GLN:HB2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:k1:126:SER:OG	29:k1:201:PEB:HMA2	1.95	0.66
6:I3:139:CYS:CB	29:I3:202:PEB:CAA	2.36	0.66
6:F4:4:VAL:O	6:F4:7:THR:OG1	2.14	0.66
7:I5:18:TYR:CD1	21:LP:128:GLN:CD	2.74	0.66
7:K5:108:ARG:HD3	27:aP:276:THR:HG21	1.78	0.66
1:X7:229:ALA:HB1	7:V7:116:THR:HG23	1.78	0.66
7:i7:114:LYS:O	7:i7:118:ILE:HG13	1.96	0.66
7:I8:6:SER:OG	7:I8:26:ALA:HB2	1.95	0.66
7:BA:33:ASP:HA	7:BA:36:LYS:HD3	1.78	0.66
7:ZB:58:GLY:O	7:ZB:62:GLU:HG3	1.96	0.66
7:BC:74:TYR:HB3	7:BC:78:ARG:HH11	1.61	0.66
6:BD:68:ASN:O	6:BD:71:GLU:HB2	1.94	0.66
7:GD:136:ALA:HB3	29:GD:203:PEB:CBC	2.26	0.66
6:LD:151:GLU:H	6:LD:151:GLU:CD	2.04	0.66
14:MG:245:MET:HE2	14:MG:245:MET:CA	2.15	0.66
6:CJ:70:GLY:H	6:CJ:74:GLU:CG	2.07	0.66
6:GJ:68:ASN:CB	6:GJ:69:PRO:CD	2.64	0.66
6:KJ:73:GLY:CA	6:KJ:78:LYS:HG3	2.23	0.66
6:eJ:34:SER:HA	6:eJ:37:ARG:HG2	1.77	0.66
6:mJ:34:SER:HA	6:mJ:37:ARG:HG2	1.77	0.66
7:nJ:109:CYS:C	16:xJ:111:GLN:HE22	2.03	0.66
5:HK:145:THR:CG2	29:HK:1002:PEB:HMA2	2.25	0.66
6:UK:154:ALA:HA	6:UK:157:ASP:CG	2.21	0.66
6:bK:5:ILE:CB	7:cK:3:ASP:OD2	2.41	0.66
6:oL:34:SER:HA	6:oL:37:ARG:HG2	1.77	0.66
7:DN:33:ASP:HA	7:DN:36:LYS:HD3	1.78	0.66
7:HN:33:ASP:HA	7:HN:36:LYS:HD3	1.78	0.66
7:NO:87:GLU:OE1	7:NO:91:ARG:NE	2.29	0.66
21:IP:13:ASP:HB2	20:JP:94:TYR:CE2	2.31	0.66
21:IP:60:LEU:HB2	21:IP:65:ILE:HD11	1.77	0.66
20:PP:113:LYS:HB3	26:ZP:154:GLU:HG3	1.76	0.66
20:TP:144:GLU:N	20:TP:144:GLU:OE1	2.29	0.66
21:oP:94:TYR:OH	20:pP:16:ARG:O	2.13	0.66
7:HQ:46:SER:HB2	7:HQ:151:MET:HE3	1.77	0.66
7:JQ:46:SER:HB2	7:JQ:151:MET:HE3	1.77	0.66
8:eR:63:VAL:HG11	6:OR:111:ALA:HB2	1.77	0.66
6:MR:50:ALA:HA	6:MR:53:LYS:HD2	1.78	0.66
6:OR:5:ILE:O	6:OR:9:VAL:HG22	1.94	0.66
6:QR:114:ARG:C	6:QR:118:ARG:HH21	2.04	0.66
5:L1:145:THR:HG22	29:L1:1002:PEB:HMA2	1.77	0.66
5:N1:145:THR:HG22	29:N1:1002:PEB:HMA2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g1:126:SER:OG	29:g1:201:PEB:HMA2	1.95	0.66
6:j1:140:VAL:CG1	6:j1:146:ALA:HA	2.25	0.66
8:e2:242:LYS:O	7:X2:111:ASN:ND2	2.28	0.66
6:M2:50:ALA:HA	6:M2:53:LYS:HD2	1.78	0.66
6:S2:51:VAL:HG12	6:S2:137:ARG:HH22	0.83	0.66
7:N3:87:GLU:CD	7:N3:91:ARG:CD	2.65	0.66
7:C4:110:LEU:HD22	7:C4:175:ALA:HB3	1.77	0.66
6:F4:5:ILE:O	6:F4:9:VAL:HG13	1.96	0.66
7:I4:62:GLU:HB2	4:EF:77:SER:HA	1.78	0.66
7:I4:157:ASP:OD1	7:I4:158:CYS:N	2.28	0.66
6:J5:64:ALA:HB3	20:NP:41:GLN:HE22	1.61	0.66
7:K8:36:LYS:CB	7:K8:161:LEU:HD11	2.26	0.66
4:G9:73:ALA:HB2	4:G9:123:ASP:OD1	1.96	0.66
6:U9:69:PRO:HG2	7:TR:122:VAL:C	2.21	0.66
7:i9:114:LYS:O	7:i9:118:ILE:HG13	1.96	0.66
6:AA:28:GLN:O	6:AA:32:GLN:NE2	2.29	0.66
6:QB:54:GLU:OE1	29:QB:204:PEB:C3C	2.44	0.66
7:JC:74:TYR:HB3	7:JC:78:ARG:HH11	1.61	0.66
7:LC:116:THR:HG22	18:MC:213:THR:HB	1.78	0.66
6:FD:43:LYS:HD3	6:FD:143:ASP:O	1.92	0.66
6:KE:152:PHE:O	6:KE:156:LEU:HG	1.96	0.66
18:ME:284:LEU:CD1	5:DI:18:PHE:CE2	2.79	0.66
4:CF:7:GLU:OE1	4:MF:22:THR:HG22	1.96	0.66
4:CF:28:ASN:ND2	29:DF:1002:PEB:OD	2.28	0.66
7:cI:107:ASP:OD1	7:cI:107:ASP:N	2.26	0.66
6:GJ:53:LYS:NZ	19:zJ:347:VAL:O	2.28	0.66
6:MJ:34:SER:HA	6:MJ:37:ARG:HG2	1.77	0.66
6:SJ:51:VAL:O	6:SJ:54:GLU:N	2.29	0.66
16:wJ:165:ARG:NH1	29:wJ:303:PEB:NB	2.44	0.66
19:zJ:343:GLN:HE21	20:iP:61:ARG:CA	1.92	0.66
4:GK:3:THR:HG21	4:GK:101:VAL:HB	1.76	0.66
6:UK:140:VAL:CG1	6:UK:146:ALA:HA	2.25	0.66
6:IL:71:GLU:HA	6:IL:71:GLU:OE1	1.95	0.66
6:IL:137:ARG:HH22	29:IL:202:PEB:C4C	2.07	0.66
7:LL:27:LEU:CD2	28:bP:228:ILE:HG13	2.25	0.66
6:iL:73:GLY:HA2	6:iL:78:LYS:HB3	1.77	0.66
6:dM:9:VAL:HG13	7:eM:95:TYR:CD1	2.29	0.66
21:MP:3:ASP:OD1	20:NP:5:THR:OG1	2.10	0.66
20:cP:144:GLU:OE1	20:cP:144:GLU:N	2.29	0.66
20:pP:144:GLU:N	20:pP:144:GLU:OE1	2.29	0.66
20:rP:144:GLU:OE1	20:rP:144:GLU:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:vP:114:GLU:OE2	25:1P:736:SER:HB2	1.96	0.66
7:BQ:61:CYS:SG	29:BQ:203:PEB:HAD1	2.36	0.66
7:BQ:97:LEU:CD2	7:BQ:168:TYR:HD2	2.09	0.66
7:FQ:58:GLY:HA3	29:FQ:203:PEB:HMD2	1.77	0.66
7:FQ:75:THR:HG22	7:FQ:78:ARG:H	1.59	0.66
6:f1:13:ASP:OD2	7:g1:108:ARG:NH1	2.30	0.65
7:M4:129:ARG:NH2	7:M4:132:SER:OG	2.29	0.65
7:I8:28:LYS:HD3	19:zJ:291:ILE:HG12	1.78	0.65
7:PB:70:GLY:O	7:mB:125:ASN:ND2	2.28	0.65
10:dD:283:ARG:CB	7:TI:148:GLU:OE1	2.44	0.65
7:CD:74:TYR:OH	6:FD:91:ARG:NH2	2.29	0.65
7:ED:7:ARG:HA	7:ED:7:ARG:NE	2.11	0.65
7:ED:23:ASP:OD1	7:ED:23:ASP:N	2.25	0.65
6:IE:152:PHE:O	6:IE:156:LEU:HG	1.96	0.65
6:hF:9:VAL:HG23	7:iF:1:MET:SD	2.34	0.65
6:hI:9:VAL:HG23	7:iI:1:MET:SD	2.34	0.65
29:pJ:202:PEB:C4D	6:qJ:33:ARG:NE	2.47	0.65
4:CK:11:THR:HG21	4:MK:7:GLU:HG2	1.77	0.65
4:EK:7:GLU:OE1	4:KK:22:THR:CG2	2.45	0.65
4:EK:145:GLN:OE1	4:EK:145:GLN:HA	1.96	0.65
6:AL:137:ARG:NH2	29:AL:202:PEB:C1B	2.56	0.65
6:CL:34:SER:HA	6:CL:37:ARG:HG2	1.77	0.65
6:OL:34:SER:HA	6:OL:37:ARG:HG2	1.77	0.65
16:wL:183:LYS:HE2	16:xL:41:ASN:ND2	2.10	0.65
7:kM:85:ASP:OD2	7:kM:117:TYR:OH	2.13	0.65
7:LN:20:GLY:O	7:LN:24:LEU:HB2	1.96	0.65
7:LN:33:ASP:HA	7:LN:36:LYS:HD3	1.78	0.65
7:MO:59:MET:HE3	7:MO:126:SER:HB2	1.78	0.65
21:UP:60:LEU:HB2	21:UP:65:ILE:HD11	1.77	0.65
20:eP:144:GLU:N	20:eP:144:GLU:OE1	2.29	0.65
7:BQ:140:ALA:CB	29:BQ:203:PEB:CBB	2.73	0.65
7:FQ:136:ALA:CB	29:FQ:203:PEB:CGC	2.73	0.65
4:M1:3:THR:HG21	4:M1:101:VAL:HB	1.76	0.65
4:M1:94:MET:HG3	4:M1:111:LEU:CG	2.26	0.65
7:c1:126:SER:OG	29:c1:201:PEB:HMA2	1.95	0.65
6:l1:140:VAL:CG1	6:l1:146:ALA:HA	2.25	0.65
7:M3:59:MET:HE3	7:M3:126:SER:HB2	1.78	0.65
10:d4:307:TYR:HA	10:d4:310:GLN:HE22	1.61	0.65
7:G4:132:SER:HA	7:G4:135:LYS:HB2	1.77	0.65
3:B7:174:GLU:OE2	26:2P:81:PHE:CA	2.43	0.65
7:LC:74:TYR:HB3	7:LC:78:ARG:HH11	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:91:ARG:O	7:ED:94:SER:OG	2.10	0.65
7:ID:102:ALA:CB	7:ID:105:LEU:HD11	2.24	0.65
7:ID:110:LEU:HD22	7:ID:175:ALA:HB3	1.77	0.65
6:JD:151:GLU:H	6:JD:151:GLU:CD	2.04	0.65
7:KD:7:ARG:HA	7:KD:7:ARG:NE	2.11	0.65
7:MD:107:ASP:OD1	7:MD:108:ARG:N	2.28	0.65
7:MD:125:ASN:H	6:UL:69:PRO:HG3	1.61	0.65
1:XF:105:LYS:NZ	7:aF:92:TYR:CE2	2.63	0.65
1:XF:117:LEU:HG	1:XF:118:LYS:HD3	1.77	0.65
7:BG:41:VAL:HG21	7:BG:98:LEU:CD2	2.07	0.65
7:FJ:159:THR:HG22	25:YP:513:GLY:O	1.96	0.65
6:iJ:73:GLY:HA2	6:iJ:78:LYS:HB3	1.77	0.65
16:wJ:136:SER:HA	16:wJ:139:GLU:HG2	1.76	0.65
5:JK:74:TYR:OH	4:MK:93:ARG:NH2	2.27	0.65
16:wL:165:ARG:NH1	29:wL:303:PEB:NB	2.44	0.65
6:AN:38:LEU:HD23	7:BN:28:LYS:HG3	1.77	0.65
21:DP:139:SER:HB2	20:iP:45:GLU:OE2	1.96	0.65
21:OP:60:LEU:HB2	21:OP:65:ILE:HD11	1.77	0.65
20:PP:144:GLU:OE1	20:PP:144:GLU:N	2.29	0.65
23:WP:111:ASP:HA	23:WP:115:LEU:HB2	1.78	0.65
25:1P:65:ASN:OD1	25:1P:87:ARG:NH1	2.30	0.65
7:FQ:46:SER:HB2	7:FQ:151:MET:HE3	1.77	0.65
4:G1:46:GLY:O	11:D8:274:PRO:CG	2.41	0.65
5:J1:47:ASN:HD21	5:J1:141:LEU:CD1	2.09	0.65
7:N3:87:GLU:OE1	7:N3:91:ARG:NE	2.29	0.65
10:d4:129:GLU:OE1	7:E4:1:MET:HE3	1.96	0.65
6:L4:4:VAL:O	6:L4:7:THR:OG1	2.14	0.65
13:k6:260:GLY:HA3	6:U7:76:GLN:OE1	1.95	0.65
3:B7:227:GLU:CG	20:rP:52:LYS:HE2	2.25	0.65
6:l7:137:ARG:HH11	6:l7:137:ARG:CG	2.09	0.65
7:A8:76:ASN:HD22	7:C8:119:ALA:HB1	1.61	0.65
6:IC:14:ALA:CB	18:MC:51:PRO:CG	2.74	0.65
18:MC:56:VAL:HG21	18:MC:59:GLU:OE1	1.95	0.65
18:MC:215:THR:O	18:MC:216:ARG:C	2.37	0.65
10:dD:270:ARG:HD2	10:dD:273:ILE:HG12	1.78	0.65
10:dD:307:TYR:HA	10:dD:310:GLN:HE22	1.62	0.65
6:HD:5:ILE:O	6:HD:9:VAL:HG13	1.96	0.65
7:MD:7:ARG:HA	7:MD:7:ARG:NE	2.11	0.65
7:MD:23:ASP:OD1	7:MD:23:ASP:N	2.25	0.65
6:CE:33:ARG:O	6:CE:36:ALA:N	2.20	0.65
18:ME:236:ASP:HA	29:SI:202:PEB:CMA	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:aF:107:ASP:OD1	7:aF:107:ASP:N	2.20	0.65
7:FG:46:SER:HB2	7:FG:151:MET:HE3	1.77	0.65
7:FG:84:ARG:HH21	14:MG:174:ARG:HH22	1.43	0.65
4:KI:108:ASP:HA	4:KI:112:VAL:HG22	1.77	0.65
7:JJ:5:PHE:CE2	7:JJ:31:ILE:CD1	2.75	0.65
6:gJ:34:SER:HA	6:gJ:37:ARG:HG2	1.77	0.65
19:zJ:327:MET:HG3	20:pP:56:GLN:OE1	1.95	0.65
6:AL:34:SER:HA	6:AL:37:ARG:HG2	1.77	0.65
6:EL:161:ASN:CG	7:HL:49:SER:HG	2.04	0.65
6:SL:51:VAL:O	6:SL:54:GLU:N	2.29	0.65
6:UL:34:SER:HA	6:UL:37:ARG:HG2	1.77	0.65
16:wL:179:ALA:N	16:xL:37:THR:CG2	2.59	0.65
16:xL:242:ARG:NH2	16:xL:257:ASN:OD1	2.29	0.65
6:QM:54:GLU:OE1	29:QM:204:PEB:C3C	2.44	0.65
6:AN:30:ASN:O	6:AN:34:SER:OG	2.15	0.65
21:MP:94:TYR:OH	20:NP:16:ARG:O	2.15	0.65
21:QP:60:LEU:HB2	21:QP:65:ILE:HD11	1.77	0.65
25:1P:4:LYS:HD3	25:1P:436:ALA:HA	1.77	0.65
7:NR:142:ILE:HD12	7:NR:165:VAL:HG11	1.79	0.65
6:UR:106:ASP:HA	6:UR:110:ILE:HB	1.77	0.65
7:VR:147:THR:OG1	7:VR:148:GLU:OE1	2.09	0.65
6:M2:139:CYS:O	6:M2:143:ASP:HB2	1.96	0.65
7:X2:76:ASN:OD1	7:X2:76:ASN:N	2.30	0.65
10:d4:331:GLN:CA	10:dD:331:GLN:NE2	2.60	0.65
7:C4:55:ALA:O	7:C4:59:MET:HB2	1.96	0.65
6:D4:51:VAL:HG12	6:D4:137:ARG:HH12	1.61	0.65
7:I4:137:GLN:HB3	29:I4:203:PEB:C2B	2.27	0.65
7:F5:79:MET:HE2	7:kI:147:THR:CG2	2.26	0.65
7:I5:27:LEU:HB3	19:zL:294:GLY:CA	2.25	0.65
12:E5:183:TYR:HB3	6:bI:83:TYR:CE2	2.26	0.65
7:HA:67:ILE:HD12	7:HA:74:TYR:HA	1.79	0.65
7:DC:74:TYR:HB3	7:DC:78:ARG:HH11	1.61	0.65
7:CD:58:GLY:HA2	29:CD:203:PEB:CMD	2.26	0.65
6:FD:5:ILE:O	6:FD:9:VAL:HG13	1.96	0.65
7:ID:7:ARG:HA	7:ID:7:ARG:NE	2.11	0.65
7:DE:74:TYR:HB3	7:DE:78:ARG:HH11	1.61	0.65
7:LE:108:ARG:HA	18:ME:209:ASP:O	1.95	0.65
18:ME:217:SER:HA	18:ME:223:ARG:CB	2.24	0.65
18:ME:242:LYS:CB	29:SI:202:PEB:CBB	2.73	0.65
4:EF:120:ARG:CG	4:IF:116:GLU:OE2	2.44	0.65
4:GF:108:ASP:HA	4:GF:112:VAL:HG22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:125:SER:HB3	6:KG:121:ASN:HD22	1.62	0.65
7:BG:47:ASN:CB	29:BG:203:PEB:HMA1	2.26	0.65
7:LG:58:GLY:HA2	29:LG:203:PEB:C2D	2.27	0.65
4:EI:108:ASP:HA	4:EI:112:VAL:HG22	1.77	0.65
29:HI:1002:PEB:HMC2	4:II:145:GLN:NE2	2.11	0.65
6:OJ:34:SER:HA	6:OJ:37:ARG:HG2	1.77	0.65
7:tJ:77:ARG:HH11	16:xJ:212:ARG:NH1	1.95	0.65
5:NK:47:ASN:HD21	5:NK:141:LEU:CD1	2.09	0.65
7:eK:126:SER:OG	29:eK:201:PEB:HMA2	1.95	0.65
7:gK:171:ARG:NH2	14:MN:97:PHE:HE1	1.60	0.65
6:WL:34:SER:HA	6:WL:37:ARG:HG2	1.77	0.65
6:cL:72:ALA:CB	29:cL:201:PEB:HMA3	2.04	0.65
6:oL:99:VAL:CG2	7:pL:9:VAL:HG21	2.23	0.65
6:qL:34:SER:HA	6:qL:37:ARG:HG2	1.77	0.65
20:KP:144:GLU:OE1	20:KP:144:GLU:N	2.29	0.65
25:YP:65:ASN:OD1	25:YP:87:ARG:NH1	2.30	0.65
21:nP:9:ILE:CG1	22:xP:97:LEU:HD23	2.27	0.65
21:nP:19:LEU:HD13	22:xP:97:LEU:HD22	1.77	0.65
7:HQ:140:ALA:HB3	29:HQ:203:PEB:CAB	2.16	0.65
7:LQ:137:GLN:OE1	29:LQ:202:PEB:C1B	2.44	0.65
6:SR:114:ARG:C	6:SR:118:ARG:HH21	2.04	0.65
6:UR:34:SER:O	6:UR:38:LEU:HG	1.97	0.65
6:WR:142:ARG:HD2	29:WR:202:PEB:HAA1	1.77	0.65
5:N1:19:LEU:CD1	5:N1:23:GLN:CB	2.75	0.65
6:d1:33:ARG:HA	6:d1:33:ARG:HE	1.61	0.65
6:O2:75:ASN:CB	7:L5:76:ASN:ND2	2.59	0.65
7:P2:77:ARG:NH2	6:W2:107:GLU:OE1	2.26	0.65
7:T2:142:ILE:HD12	7:T2:165:VAL:HG11	1.79	0.65
10:d4:264:LYS:HG2	6:WF:61:ALA:HB1	1.79	0.65
6:B4:118:ARG:NH2	6:L4:118:ARG:CZ	2.60	0.65
7:K4:128:ILE:CD1	7:K4:177:SER:OG	2.44	0.65
6:L4:5:ILE:O	6:L4:9:VAL:HG13	1.96	0.65
7:M4:110:LEU:HD22	7:M4:175:ALA:HB3	1.77	0.65
7:I5:7:ARG:HH21	28:bP:88:LEU:HD23	1.43	0.65
7:a7:84:ARG:O	7:a7:88:ILE:CG1	2.32	0.65
12:E8:173:PHE:CE2	6:ZF:83:TYR:CD2	2.85	0.65
6:W9:62:LYS:HD2	8:eR:276:PHE:HD2	1.62	0.65
7:FA:33:ASP:HA	7:FA:36:LYS:HD3	1.78	0.65
7:FA:67:ILE:HD12	7:FA:74:TYR:HA	1.79	0.65
7:LA:67:ILE:HD12	7:LA:74:TYR:HA	1.79	0.65
15:bB:219:ASN:ND2	15:bB:261:ASP:OD2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GB:137:ARG:HG3	6:GB:137:ARG:O	1.96	0.65
7:CD:76:ASN:OD1	29:FD:201:PEB:HMC1	1.97	0.65
7:CD:157:ASP:OD1	7:CD:159:THR:N	2.21	0.65
7:GD:55:ALA:O	7:GD:59:MET:HB2	1.96	0.65
7:KD:110:LEU:HD22	7:KD:175:ALA:HB3	1.77	0.65
3:BF:212:GLN:OE1	27:3P:74:ALA:HB2	1.97	0.65
3:BF:222:LEU:HD22	27:3P:61:ARG:O	1.96	0.65
5:JF:26:ALA:HB3	27:3P:91:VAL:HG12	1.75	0.65
13:kH:106:ALA:O	4:EK:70:PRO:HG3	1.97	0.65
13:kH:280:ARG:HG2	13:kH:280:ARG:O	1.95	0.65
4:GI:108:ASP:HA	4:GI:112:VAL:HG22	1.77	0.65
7:eI:56:VAL:HG23	7:eI:59:MET:CE	2.26	0.65
7:iI:2:LEU:HD12	7:iI:6:SER:OG	1.95	0.65
7:hJ:120:LEU:HD21	16:xJ:46:ALA:HB2	1.79	0.65
6:iJ:65:TYR:HE2	6:iJ:71:GLU:OE1	1.64	0.65
16:wJ:242:ARG:NH2	16:wJ:257:ASN:OD1	2.29	0.65
19:zJ:366:ARG:HH11	21:nP:62:TYR:HE2	1.39	0.65
2:AK:160:VAL:HG11	7:gK:107:ASP:HB2	1.78	0.65
4:KK:143:SER:CB	29:cL:202:PEB:OA	2.40	0.65
7:VK:163:SER:CB	14:MN:101:LEU:HB2	2.27	0.65
6:GL:73:GLY:HA2	6:GL:78:LYS:HB2	1.78	0.65
16:xL:136:SER:HA	16:xL:139:GLU:HG2	1.77	0.65
15:bM:342:TYR:CD2	15:bM:347:ALA:O	2.50	0.65
6:GN:28:GLN:O	6:GN:32:GLN:NE2	2.29	0.65
21:FP:28:ARG:O	21:FP:32:GLN:HG3	1.97	0.65
21:UP:28:ARG:O	21:UP:32:GLN:HG3	1.97	0.65
21:dP:14:VAL:HG21	23:yP:169:SER:HA	1.77	0.65
20:lP:144:GLU:N	20:lP:144:GLU:OE1	2.29	0.65
21:qP:83:ARG:HD2	24:zP:87:LEU:CD1	2.27	0.65
20:vP:144:GLU:OE1	20:vP:144:GLU:N	2.29	0.65
7:DQ:46:SER:HB2	7:DQ:151:MET:HE3	1.77	0.65
8:eR:64:LEU:HD11	7:TR:77:ARG:HH12	1.61	0.65
6:UR:137:ARG:CG	29:UR:202:PEB:HHC1	2.09	0.65
5:L1:33:GLU:CG	5:L1:36:GLN:OE1	2.32	0.65
6:S2:114:ARG:C	6:S2:118:ARG:HH21	2.04	0.65
7:I4:55:ALA:O	7:I4:59:MET:HB2	1.96	0.65
7:I5:28:LYS:HD3	19:zL:291:ILE:HG13	1.77	0.65
29:L5:203:PEB:HBD1	13:k6:237:ILE:CG2	2.27	0.65
1:X7:321:TYR:CE2	5:D7:84:ARG:NH2	2.65	0.65
5:L7:66:LEU:O	5:L7:73:ALA:HB3	1.96	0.65
7:K8:1:MET:HE3	7:K8:95:TYR:OH	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C8:36:LYS:HG2	29:C8:202:PEB:C1B	2.27	0.65
12:E8:72:MET:CE	5:HF:145:THR:HG21	2.27	0.65
7:DA:20:GLY:O	7:DA:24:LEU:HB2	1.97	0.65
7:HA:33:ASP:HA	7:HA:36:LYS:HD3	1.78	0.65
6:BD:118:ARG:NH2	6:LD:118:ARG:CZ	2.60	0.65
7:GD:110:LEU:HD22	7:GD:175:ALA:HB3	1.77	0.65
7:ID:55:ALA:O	7:ID:59:MET:HB2	1.96	0.65
6:EE:33:ARG:HA	6:EE:33:ARG:NE	2.12	0.65
6:QF:39:GLU:HA	6:QF:42:GLU:HG2	1.79	0.65
6:AJ:34:SER:HA	6:AJ:37:ARG:HG2	1.77	0.65
6:CJ:94:ASN:HD22	7:DJ:18:TYR:HB3	1.61	0.65
6:sJ:6:THR:C	16:xJ:81:VAL:HG12	2.22	0.65
5:JK:37:ARG:O	5:JK:40:ILE:HG22	1.97	0.65
6:jM:54:GLU:HG3	29:jM:202:PEB:HAC1	1.78	0.65
6:KN:38:LEU:HG	7:LN:24:LEU:HD23	0.66	0.65
21:hP:60:LEU:HB2	21:hP:65:ILE:HD11	1.77	0.65
21:nP:27:LEU:HD13	22:xP:97:LEU:CD1	2.26	0.65
21:oP:28:ARG:O	21:oP:32:GLN:HG3	1.97	0.65
21:sP:28:ARG:O	21:sP:32:GLN:HG3	1.97	0.65
6:QR:142:ARG:HD3	29:QR:202:PEB:HBA3	0.67	0.65
7:VR:106:GLU:HA	7:VR:110:LEU:HB2	1.79	0.65
1:X1:320:THR:HG21	4:M1:15:GLN:HE22	1.61	0.65
8:e2:297:GLY:HA3	4:E7:89:GLY:HA3	1.78	0.65
6:S2:106:ASP:HA	6:S2:110:ILE:HB	1.77	0.65
6:U2:106:ASP:HA	6:U2:110:ILE:HB	1.77	0.65
7:I4:7:ARG:HA	7:I4:7:ARG:NE	2.11	0.65
7:M4:51:MET:SD	7:M4:137:GLN:CD	2.80	0.65
12:E5:186:PRO:CD	6:bI:57:ASP:HB3	2.25	0.65
7:I8:79:MET:SD	15:bM:229:LEU:CB	2.84	0.65
6:EA:28:GLN:O	6:EA:32:GLN:NE2	2.29	0.65
17:BB:182:GLU:CB	29:BB:301:PEB:CMD	2.55	0.65
10:dD:337:ARG:NH1	6:FD:133:TYR:OH	2.28	0.65
6:CE:33:ARG:NE	6:CE:33:ARG:HA	2.11	0.65
18:ME:305:ALA:O	18:ME:307:PRO:HD2	1.95	0.65
29:HF:1002:PEB:HMC2	4:IF:145:GLN:NE2	2.11	0.65
7:HG:46:SER:HB2	7:HG:151:MET:HE3	1.77	0.65
14:MG:197:TYR:HE2	29:MG:404:PEB:HAD1	1.62	0.65
3:BI:206:PHE:HB3	21:SP:62:TYR:CZ	2.31	0.65
4:EI:120:ARG:CG	4:II:116:GLU:OE2	2.44	0.65
6:EJ:34:SER:HA	6:EJ:37:ARG:HG2	1.77	0.65
6:sJ:34:SER:HA	6:sJ:37:ARG:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:43:ALA:O	4:MK:46:GLY:N	2.30	0.65
17:yL:111:CYS:O	30:yL:303:PUB:CBA	2.44	0.65
15:bM:219:ASN:ND2	15:bM:261:ASP:OD2	2.29	0.65
27:aP:212:THR:O	27:aP:233:LYS:NZ	2.24	0.65
27:aP:287:LEU:HD13	27:aP:287:LEU:N	2.11	0.65
28:bP:158:ASP:HA	28:bP:176:LEU:HD23	1.77	0.65
21:jP:42:ALA:HA	25:1P:40:LEU:HD21	1.78	0.65
20:tP:144:GLU:OE1	20:tP:144:GLU:N	2.29	0.65
6:QR:50:ALA:HA	6:QR:53:LYS:HD2	1.79	0.65
7:RR:142:ILE:HD12	7:RR:165:VAL:HG11	1.79	0.65
6:UR:138:LEU:HD12	6:UR:138:LEU:C	2.20	0.65
5:D1:40:ILE:CG1	29:D1:1002:PEB:CBA	2.71	0.65
6:Q2:145:SER:O	6:Q2:146:ALA:C	2.40	0.65
7:V2:106:GLU:HA	7:V2:110:LEU:HB2	1.79	0.65
6:I3:142:ARG:O	6:I3:143:ASP:C	2.38	0.65
10:d4:315:SER:O	10:d4:318:SER:OG	2.13	0.65
7:E4:77:ARG:NH2	7:E4:78:ARG:HG3	2.10	0.65
7:C5:36:LYS:HG2	29:C5:202:PEB:C1B	2.27	0.65
7:L8:79:MET:HE1	13:kH:233:VAL:HG11	1.76	0.65
1:X9:229:ALA:HB1	7:V9:116:THR:HG23	1.78	0.65
4:E9:122:PHE:CE2	31:E9:1001:CYC:HAA2	2.32	0.65
5:J9:35:ASN:O	29:J9:1002:PEB:CMD	2.45	0.65
7:DA:33:ASP:HA	7:DA:36:LYS:HD3	1.78	0.65
29:FA:201:PEB:CAC	14:MA:174:ARG:HH12	1.77	0.65
6:KA:30:ASN:O	6:KA:34:SER:CB	2.43	0.65
6:FD:43:LYS:CE	6:FD:143:ASP:O	2.44	0.65
7:KD:55:ALA:O	7:KD:59:MET:HB2	1.96	0.65
6:LD:4:VAL:O	6:LD:7:THR:OG1	2.14	0.65
7:LG:46:SER:HB2	7:LG:151:MET:HE3	1.77	0.65
6:QJ:34:SER:HA	6:QJ:37:ARG:HG2	1.77	0.65
5:FK:47:ASN:CG	5:FK:141:LEU:HD21	2.22	0.65
4:IK:21:ASN:OD1	4:IK:24:LEU:HB2	1.97	0.65
5:NK:19:LEU:CD1	5:NK:23:GLN:HB2	2.26	0.65
6:GL:75:ASN:OD1	6:GL:78:LYS:HG2	1.94	0.65
6:WL:65:TYR:HA	6:WL:68:ASN:HD21	1.61	0.65
7:FN:115:GLU:OE1	14:MN:111:ARG:HG3	1.94	0.65
7:HN:20:GLY:O	7:HN:24:LEU:HB2	1.97	0.65
21:HP:34:GLY:O	21:HP:38:VAL:HG23	1.97	0.65
21:QP:34:GLY:O	21:QP:38:VAL:HG23	1.97	0.65
22:VP:53:LEU:HD12	22:VP:56:LYS:HD3	1.78	0.65
7:BQ:41:VAL:HG21	7:BQ:98:LEU:CD2	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VR:148:GLU:OE1	7:VR:148:GLU:N	2.30	0.65
4:C1:3:THR:O	4:C1:7:GLU:OE1	2.13	0.65
5:J1:29:LYS:O	5:J1:29:LYS:NZ	2.26	0.65
6:M2:142:ARG:HG2	6:M2:143:ASP:N	2.10	0.65
6:Q2:114:ARG:C	6:Q2:118:ARG:HH21	2.04	0.65
7:N3:84:ARG:HD2	9:O3:375:ASN:HB3	1.79	0.65
10:d4:150:ILE:O	10:d4:206:ARG:NH1	2.30	0.65
13:k6:200:LEU:HD21	5:H7:137:ALA:HB2	1.78	0.65
31:E7:1001:CYC:HBB3	5:H7:75:THR:HA	1.78	0.65
4:G7:73:ALA:HB2	4:G7:123:ASP:OD1	1.96	0.65
6:l7:90:MET:HA	6:l7:93:VAL:HG12	1.79	0.65
7:I8:21:GLY:O	7:I8:23:ASP:OD1	2.14	0.65
3:B9:172:LYS:HB3	26:ZP:86:PRO:CG	2.26	0.65
5:L9:66:LEU:O	5:L9:73:ALA:HB3	1.96	0.65
7:FB:16:ALA:HB2	7:JB:69:PRO:HB3	1.79	0.65
10:dD:111:ARG:HD3	10:dD:180:TYR:HE2	1.62	0.65
7:ED:77:ARG:NH2	7:ED:78:ARG:HG3	2.10	0.65
6:lF:48:HIS:HA	6:lF:51:VAL:HG22	1.77	0.65
6:IJ:71:GLU:OE1	6:IJ:71:GLU:HA	1.95	0.65
6:UJ:34:SER:HA	6:UJ:37:ARG:HG2	1.77	0.65
5:NK:47:ASN:HD21	5:NK:141:LEU:HD11	1.62	0.65
6:bK:25:GLU:HG2	6:dK:33:ARG:HG3	1.79	0.65
6:KL:72:ALA:HB3	29:KL:201:PEB:HMA2	1.79	0.65
6:KL:161:ASN:O	17:yL:48:VAL:N	2.30	0.65
16:wL:164:SER:OG	16:xL:36:GLN:CD	2.39	0.65
16:wL:242:ARG:NH2	16:wL:257:ASN:OD1	2.29	0.65
7:NM:22:SER:O	21:oP:147:LYS:CD	2.44	0.65
6:AO:42:GLU:OE2	7:BO:24:LEU:HD12	1.95	0.65
21:OP:34:GLY:O	21:OP:38:VAL:HG23	1.97	0.65
21:kP:34:GLY:O	21:kP:38:VAL:HG23	1.97	0.65
21:nP:34:GLY:O	21:nP:38:VAL:HG23	1.97	0.65
7:BQ:46:SER:HB2	7:BQ:151:MET:HE3	1.77	0.65
14:MQ:111:ARG:HE	29:MQ:401:PEB:CAB	1.97	0.65
7:NR:135:LYS:NZ	7:NR:170:ASP:OD1	2.29	0.65
6:OR:142:ARG:NH2	29:OR:202:PEB:C3B	2.55	0.65
6:SR:87:ASP:OD1	7:TR:18:TYR:OH	2.13	0.65
6:WR:92:LEU:HB3	6:WR:105:LEU:CD2	2.25	0.65
3:B1:207:ARG:HH12	3:B1:212:GLN:CA	2.10	0.65
7:P1:126:SER:OG	29:P1:201:PEB:HMA2	1.95	0.65
6:U1:154:ALA:HA	6:U1:157:ASP:CG	2.21	0.65
7:X2:142:ILE:HD12	7:X2:165:VAL:HG11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B4:9:VAL:HG11	7:C4:95:TYR:CD1	2.30	0.65
6:D4:31:ILE:HG23	7:E4:31:ILE:HG23	1.79	0.65
7:M4:55:ALA:O	7:M4:59:MET:HB2	1.96	0.65
5:J7:170:SER:HB2	26:2P:47:GLN:NE2	2.12	0.65
7:L8:79:MET:HE2	13:kH:233:VAL:HB	1.78	0.65
6:GA:37:ARG:CD	6:GA:97:LEU:O	2.45	0.65
6:KA:28:GLN:O	6:KA:32:GLN:NE2	2.29	0.65
7:LA:20:GLY:O	7:LA:24:LEU:HB2	1.96	0.65
16:AB:180:SER:OG	29:kB:201:PEB:OD	2.13	0.65
7:NB:170:ASP:OD1	28:bP:184:THR:CG2	2.45	0.65
7:KD:128:ILE:CD1	7:KD:177:SER:OG	2.44	0.65
6:GG:87:ASP:O	6:GG:91:ARG:HB2	1.97	0.65
7:LG:43:SER:HA	7:LG:46:SER:HB3	1.79	0.65
7:FJ:159:THR:HG23	25:YP:512:GLU:O	1.97	0.65
6:cJ:34:SER:HA	6:cJ:37:ARG:HG2	1.77	0.65
29:rJ:201:PEB:O1C	16:xJ:115:PHE:CE1	2.50	0.65
6:sJ:14:ALA:O	16:xJ:87:THR:CA	2.43	0.65
1:XK:320:THR:HG21	4:MK:15:GLN:HE22	1.61	0.65
4:EK:140:HIS:H	4:EK:140:HIS:HD2	1.43	0.65
5:JK:47:ASN:HD21	5:JK:141:LEU:HD11	1.62	0.65
6:fK:13:ASP:OD2	7:gK:108:ARG:NH1	2.30	0.65
6:KL:34:SER:HA	6:KL:37:ARG:HG2	1.77	0.65
7:RL:114:LYS:NZ	7:RL:177:SER:C	2.55	0.65
16:xL:165:ARG:NH1	29:xL:303:PEB:NB	2.44	0.65
6:QM:54:GLU:CD	29:QM:204:PEB:C3C	2.67	0.65
7:eM:63:ASN:O	7:eM:65:GLY:N	2.30	0.65
6:jM:147:GLN:NE2	29:mM:202:PEB:HMC1	2.09	0.65
7:HN:67:ILE:HD12	7:HN:74:TYR:HA	1.79	0.65
7:LN:67:ILE:HD12	7:LN:74:TYR:HA	1.79	0.65
20:KP:103:PRO:HG3	28:bP:50:TYR:CE1	2.32	0.65
21:dP:34:GLY:O	21:dP:38:VAL:HG23	1.97	0.65
21:jP:18:TYR:CD1	25:1P:157:ARG:HD3	2.31	0.65
21:kP:28:ARG:O	21:kP:32:GLN:HG3	1.97	0.65
6:AQ:125:SER:HB3	6:KQ:121:ASN:HD22	1.62	0.65
7:HQ:43:SER:HA	7:HQ:46:SER:HB3	1.79	0.65
6:QR:143:ASP:C	6:QR:144:MET:CG	2.70	0.65
7:XR:142:ILE:HD12	7:XR:165:VAL:HG11	1.79	0.65
7:XR:148:GLU:OE1	7:XR:148:GLU:N	2.30	0.65
8:e2:299:VAL:CB	5:F7:17:GLU:HB3	2.27	0.64
6:O2:80:ASN:OD1	13:k6:247:PRO:HA	1.98	0.64
6:W2:114:ARG:C	6:W2:118:ARG:HH21	2.04	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X2:106:GLU:HA	7:X2:110:LEU:HB2	1.79	0.64
10:d4:331:GLN:O	10:dD:331:GLN:NE2	2.30	0.64
6:F4:81:LYS:HD3	6:F4:84:ARG:NH1	2.12	0.64
7:I4:102:ALA:CB	7:I4:105:LEU:HD11	2.24	0.64
6:J4:151:GLU:CD	6:J4:151:GLU:H	2.04	0.64
7:K4:132:SER:HA	7:K4:135:LYS:HB2	1.79	0.64
7:M4:124:THR:N	6:UF:69:PRO:HG3	2.09	0.64
7:K5:142:ILE:HG21	7:K5:162:ALA:HA	1.77	0.64
7:L5:83:LEU:HD22	13:k6:231:ALA:HB3	1.79	0.64
3:B7:207:ARG:NH1	27:3P:61:ARG:NH1	2.32	0.64
5:N7:35:ASN:O	29:N7:1002:PEB:CMD	2.45	0.64
3:B9:172:LYS:HD3	3:B9:173:GLY:H	1.62	0.64
6:W9:142:ARG:NE	29:W9:202:PEB:NA	2.45	0.64
6:j9:99:VAL:HG23	7:k9:9:VAL:HG21	1.79	0.64
7:BA:67:ILE:HD12	7:BA:74:TYR:HA	1.79	0.64
7:LA:33:ASP:HA	7:LA:36:LYS:HD3	1.78	0.64
7:NB:129:ARG:CG	28:bP:121:HIS:CB	2.75	0.64
7:LC:120:LEU:HD23	18:MC:219:SER:HB2	1.74	0.64
7:CD:136:ALA:CB	29:CD:203:PEB:HBC2	2.27	0.64
6:FD:43:LYS:HZ2	6:FD:43:LYS:CA	2.10	0.64
6:CE:17:ARG:O	7:DE:95:TYR:OH	2.15	0.64
18:ME:261:VAL:HG21	6:SI:68:ASN:CA	2.24	0.64
5:JF:165:ASP:OD2	27:3P:71:VAL:O	2.15	0.64
6:AG:87:ASP:O	6:AG:91:ARG:HB2	1.97	0.64
7:DG:43:SER:HA	7:DG:46:SER:HB3	1.79	0.64
6:EG:87:ASP:O	6:EG:91:ARG:HB2	1.97	0.64
7:FG:47:ASN:HB2	29:FG:203:PEB:HMA2	1.78	0.64
6:IG:16:GLY:HA3	14:MG:262:GLY:O	1.97	0.64
6:cJ:72:ALA:CB	29:cJ:201:PEB:HMA3	2.04	0.64
29:lJ:201:PEB:O1C	16:xJ:255:GLN:NE2	2.31	0.64
16:wL:52:THR:OG1	16:wL:55:GLN:OE1	2.13	0.64
7:ZM:58:GLY:O	7:ZM:62:GLU:HG3	1.96	0.64
7:BN:33:ASP:HA	7:BN:36:LYS:HD3	1.78	0.64
6:AO:161:ASN:ND2	7:DO:46:SER:O	2.26	0.64
21:BP:107:ARG:HD3	25:YP:580:THR:O	1.97	0.64
25:YP:4:LYS:HD3	25:YP:436:ALA:HA	1.77	0.64
27:aP:46:ASP:OD1	27:aP:48:THR:HB	1.97	0.64
27:aP:48:THR:HG23	21:sP:64:ASP:OD2	1.97	0.64
22:xP:53:LEU:HD12	22:xP:56:LYS:HD3	1.79	0.64
7:JQ:43:SER:HA	7:JQ:46:SER:HB3	1.79	0.64
7:LQ:46:SER:HB2	7:LQ:151:MET:HE3	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MQ:197:TYR:HE2	29:MQ:406:PEB:HAD1	1.62	0.64
8:eR:125:ARG:O	8:eR:128:ARG:CZ	2.45	0.64
6:SR:118:ARG:HH11	6:UR:114:ARG:HH11	1.43	0.64
6:UR:47:ASN:ND2	29:UR:202:PEB:OD	2.30	0.64
7:V1:174:ALA:CB	14:MA:96:LYS:HD2	2.27	0.64
6:M2:37:ARG:HH12	6:O2:25:GLU:HG3	1.63	0.64
7:R2:106:GLU:HA	7:R2:110:LEU:HB2	1.79	0.64
7:M3:163:SER:O	9:O3:383:ASN:ND2	2.31	0.64
7:N3:59:MET:HE3	7:N3:126:SER:HB2	1.78	0.64
7:G4:7:ARG:HA	7:G4:7:ARG:NE	2.11	0.64
7:G4:129:ARG:NH2	7:G4:132:SER:OG	2.29	0.64
7:I5:116:THR:HG21	15:bB:403:PRO:HG3	1.80	0.64
13:k6:151:VAL:CG1	13:k6:156:THR:CG2	2.71	0.64
13:k6:187:THR:HG21	5:H7:141:LEU:CB	2.25	0.64
5:F7:114:ARG:HG3	5:F7:171:VAL:O	1.96	0.64
5:L7:18:PHE:CD1	20:TP:67:SER:CB	2.80	0.64
7:k7:150:LYS:CD	7:G8:149:ARG:HH21	2.09	0.64
2:A9:34:LEU:CD2	7:Y9:87:GLU:CD	2.57	0.64
5:F9:114:ARG:HG3	5:F9:171:VAL:O	1.96	0.64
7:LC:10:VAL:CG2	18:MC:258:THR:HG21	2.27	0.64
7:ED:55:ALA:O	7:ED:59:MET:HB2	1.96	0.64
3:BF:210:GLU:HA	27:3P:71:VAL:CG2	2.28	0.64
4:CI:7:GLU:OE1	4:MI:22:THR:HG22	1.96	0.64
4:KI:100:VAL:HG11	5:LI:27:LEU:CD1	2.27	0.64
19:zJ:329:ILE:CD1	20:pP:59:PHE:CD2	2.80	0.64
6:SL:68:ASN:CB	6:SL:71:GLU:OE2	2.43	0.64
16:xL:53:ALA:O	16:xL:57:LYS:CG	2.34	0.64
19:zL:343:GLN:HE22	20:GP:61:ARG:CB	2.10	0.64
15:bM:317:ASP:HB3	15:bM:320:GLU:HB2	1.79	0.64
15:bM:363:SER:HB2	21:oP:57:ALA:O	1.96	0.64
15:bM:370:TYR:CE2	21:oP:58:LYS:O	2.50	0.64
21:IP:28:ARG:O	21:IP:32:GLN:HG3	1.97	0.64
21:LP:24:VAL:HG13	22:VP:37:ILE:HG12	1.77	0.64
22:VP:117:ASN:HB3	25:YP:230:PRO:HG2	1.80	0.64
21:oP:60:LEU:CD2	21:oP:65:ILE:CD1	2.73	0.64
20:tP:5:THR:O	20:tP:9:VAL:HG22	1.98	0.64
7:JQ:134:MET:HE2	7:JQ:137:GLN:HG3	1.80	0.64
6:KQ:118:ARG:NH2	14:MQ:151:LYS:NZ	2.44	0.64
29:eR:401:PEB:HAA1	7:PR:82:CYS:CA	2.27	0.64
6:OR:157:ASP:HA	6:OR:160:ILE:HB	1.80	0.64
7:PR:69:PRO:CG	7:XR:16:ALA:HB2	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J1:18:PHE:CA	15:bB:335:ILE:HD13	2.28	0.64
5:J1:37:ARG:O	5:J1:40:ILE:HG22	1.97	0.64
8:e2:125:ARG:O	8:e2:128:ARG:CZ	2.45	0.64
7:N2:142:ILE:HD12	7:N2:165:VAL:HG11	1.79	0.64
6:D4:134:THR:HA	6:D4:137:ARG:HE	1.63	0.64
6:F4:151:GLU:CD	6:F4:151:GLU:H	2.04	0.64
6:H4:113:ALA:CB	7:M4:76:ASN:ND2	2.51	0.64
7:K4:77:ARG:NH2	7:K4:78:ARG:HG3	2.10	0.64
6:L4:151:GLU:CD	6:L4:151:GLU:H	2.04	0.64
13:k6:94:LEU:CD1	13:k6:120:ILE:CD1	2.74	0.64
7:a7:26:ALA:C	12:E8:40:VAL:CG1	2.68	0.64
6:KA:38:LEU:CB	7:LA:24:LEU:CD2	2.74	0.64
7:NB:22:SER:HA	21:MP:147:LYS:CA	2.24	0.64
7:VB:82:CYS:O	7:VB:85:ASP:OD1	2.14	0.64
6:KC:152:PHE:O	6:KC:156:LEU:HG	1.96	0.64
18:MC:312:LEU:HD23	7:vJ:68:SER:HB2	1.75	0.64
6:BD:151:GLU:CD	6:BD:151:GLU:H	2.04	0.64
7:CD:55:ALA:O	7:CD:59:MET:HB2	1.96	0.64
6:DD:134:THR:HA	6:DD:137:ARG:HE	1.63	0.64
6:JD:53:LYS:HA	6:JD:53:LYS:HE2	1.80	0.64
7:KD:132:SER:HA	7:KD:135:LYS:HB2	1.79	0.64
7:LE:74:TYR:HB3	7:LE:78:ARG:HH11	1.61	0.64
4:CF:108:ASP:HA	4:CF:112:VAL:HG22	1.78	0.64
4:KF:70:PRO:HD3	9:OO:308:TYR:CD2	2.19	0.64
5:LF:68:GLN:CD	27:3P:110:SER:HB3	2.22	0.64
7:HG:141:PHE:CD2	29:HG:203:PEB:HMB2	2.31	0.64
13:kH:280:ARG:HG3	13:kH:283:LYS:NZ	2.09	0.64
5:LI:68:GLN:CD	27:aP:110:SER:HB3	2.23	0.64
6:II:48:HIS:HA	6:II:51:VAL:HG22	1.77	0.64
7:mI:1:MET:SD	7:mI:108:ARG:NE	2.68	0.64
7:HJ:72:MEN:CB	29:zJ:501:PEB:OA	2.46	0.64
6:KJ:161:ASN:O	17:yJ:48:VAL:N	2.30	0.64
3:BK:205:ARG:CZ	3:BK:205:ARG:HA	2.27	0.64
5:LK:33:GLU:CG	5:LK:36:GLN:OE1	2.32	0.64
5:NK:19:LEU:CD1	5:NK:23:GLN:CB	2.75	0.64
6:OK:135:ARG:NH1	6:OK:157:ASP:OD1	2.21	0.64
6:mL:27:ILE:HB	7:nL:38:LEU:HD21	1.79	0.64
16:wL:172:VAL:HB	16:xL:48:MET:HE1	1.78	0.64
16:AM:106:GLN:HE22	16:AM:110:LYS:HE3	1.62	0.64
7:BN:67:ILE:HD12	7:BN:74:TYR:HA	1.79	0.64
6:CN:17:ARG:HD3	30:MN:403:PUB:O1C	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GN:37:ARG:CD	6:GN:97:LEU:O	2.45	0.64
20:CP:5:THR:O	20:CP:9:VAL:HG22	1.98	0.64
21:BP:28:ARG:O	21:BP:32:GLN:HG3	1.97	0.64
21:LP:34:GLY:O	21:LP:38:VAL:HG23	1.97	0.64
21:QP:71:MEN:O	21:QP:77:ARG:HD3	1.96	0.64
21:SP:34:GLY:O	21:SP:38:VAL:HG23	1.97	0.64
21:UP:34:GLY:O	21:UP:38:VAL:HG23	1.97	0.64
21:jP:28:ARG:O	21:jP:32:GLN:HG3	1.97	0.64
21:wP:28:ARG:O	21:wP:32:GLN:HG3	1.97	0.64
24:zP:80:ARG:NH2	24:zP:87:LEU:HG	2.13	0.64
7:HQ:140:ALA:HB2	29:HQ:203:PEB:CAB	2.16	0.64
6:MR:17:ARG:NH2	6:OR:2:LYS:HZ1	1.91	0.64
7:NR:147:THR:OG1	7:NR:148:GLU:OE1	2.09	0.64
6:QR:145:SER:O	6:QR:146:ALA:C	2.40	0.64
4:E1:145:GLN:NE2	29:L1:1002:PEB:HMC3	2.12	0.64
5:F1:47:ASN:CG	5:F1:141:LEU:HD21	2.22	0.64
5:N1:19:LEU:HD12	5:N1:23:GLN:HB2	1.80	0.64
5:N1:47:ASN:HD21	5:N1:141:LEU:CD1	2.09	0.64
6:O2:157:ASP:HA	6:O2:160:ILE:HB	1.80	0.64
7:V2:61:CYS:CB	29:V2:203:PEB:CBD	2.76	0.64
10:d4:292:VAL:HG11	4:EF:52:ILE:HG21	1.77	0.64
6:D4:151:GLU:CD	6:D4:151:GLU:H	2.04	0.64
7:E4:59:MET:HE3	7:E4:130:ALA:HA	1.70	0.64
7:I4:110:LEU:HD22	7:I4:175:ALA:HB3	1.77	0.64
6:J5:77:GLU:HG3	5:J7:11:GLN:HE22	1.62	0.64
7:C5:69:PRO:HG3	7:C5:74:TYR:CZ	2.33	0.64
3:B9:32:TYR:HB3	3:B9:46:ILE:HG12	1.78	0.64
3:B9:205:ARG:HH22	21:sP:62:TYR:H	1.46	0.64
5:D9:35:ASN:O	29:D9:1002:PEB:CMD	2.45	0.64
7:JA:33:ASP:HA	7:JA:36:LYS:HD3	1.78	0.64
7:DB:85:ASP:OD1	29:DB:201:PEB:CHC	2.45	0.64
7:RB:148:GLU:HB2	29:RB:203:PEB:OA	1.98	0.64
7:LC:11:ASN:HB3	18:MC:259:PRO:CG	2.26	0.64
18:MC:199:ASN:OD1	18:MC:238:VAL:HG12	1.97	0.64
10:dD:150:ILE:O	10:dD:206:ARG:NH1	2.30	0.64
7:GD:129:ARG:NH2	7:GD:132:SER:OG	2.29	0.64
6:HD:33:ARG:HH21	6:HD:33:ARG:CG	2.09	0.64
7:MD:67:ILE:HG22	7:MD:67:ILE:O	1.98	0.64
6:EE:33:ARG:HD2	29:HE:202:PEB:CBD	2.26	0.64
18:ME:233:ALA:N	18:ME:236:ASP:OD2	2.31	0.64
7:iF:2:LEU:HD12	7:iF:6:SER:OG	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:204:ARG:CD	31:PP:1001:CYC:CGD	2.76	0.64
4:CI:108:ASP:HA	4:CI:112:VAL:HG22	1.78	0.64
5:DI:63:GLN:HG2	7:PI:15:LYS:HA	1.80	0.64
17:yJ:111:CYS:O	30:yJ:303:PUB:CBA	2.46	0.64
7:HL:133:ILE:O	7:HL:136:ALA:N	2.31	0.64
7:FM:16:ALA:HB2	7:JM:69:PRO:HB3	1.79	0.64
6:GM:137:ARG:HG3	6:GM:137:ARG:O	1.96	0.64
7:FN:33:ASP:HA	7:FN:36:LYS:HD3	1.78	0.64
7:MO:163:SER:O	9:OO:383:ASN:ND2	2.31	0.64
21:MP:28:ARG:O	21:MP:32:GLN:HG3	1.97	0.64
21:OP:28:ARG:O	21:OP:32:GLN:HG3	1.97	0.64
28:bP:40:ARG:HB3	28:bP:40:ARG:NH1	2.02	0.64
21:uP:34:GLY:O	21:uP:38:VAL:HG23	1.97	0.64
21:wP:106:GLU:OE2	25:1P:875:ILE:HG21	1.97	0.64
27:3P:46:ASP:OD1	27:3P:48:THR:HB	1.97	0.64
4:M1:93:ARG:HD3	5:N1:18:PHE:CE1	2.33	0.64
7:P2:148:GLU:OE1	7:P2:148:GLU:N	2.30	0.64
6:W2:96:CYS:HG	6:W2:105:LEU:HG	1.63	0.64
6:H4:94:ASN:HD22	7:I4:18:TYR:HD1	1.44	0.64
7:K4:7:ARG:HA	7:K4:7:ARG:NE	2.11	0.64
7:M4:173:GLY:O	7:M4:177:SER:OG	2.14	0.64
12:E5:72:MET:HB3	5:HI:151:GLY:C	2.21	0.64
5:F7:17:GLU:N	5:F7:17:GLU:OE2	2.29	0.64
7:L8:107:ASP:CG	4:I9:61:ASN:OD1	2.41	0.64
5:F9:5:PHE:CD1	5:F9:27:LEU:HD22	2.33	0.64
7:VB:84:ARG:HH22	29:VB:201:PEB:C1C	2.10	0.64
6:DD:4:VAL:O	6:DD:7:THR:OG1	2.14	0.64
6:DD:53:LYS:HA	6:DD:53:LYS:HE2	1.80	0.64
6:FD:53:LYS:HA	6:FD:53:LYS:HE2	1.80	0.64
7:GD:91:ARG:O	7:GD:94:SER:OG	2.10	0.64
3:BF:221:PHE:CD1	27:3P:81:LEU:HD22	2.29	0.64
6:jF:21:ASN:ND2	6:lF:151:GLU:OE1	2.29	0.64
7:DG:134:MET:HE2	7:DG:137:GLN:HG3	1.80	0.64
6:IG:87:ASP:O	6:IG:91:ARG:HB2	1.97	0.64
4:MI:143:SER:HB2	6:eL:69:PRO:HB3	1.80	0.64
7:NJ:114:LYS:HG2	7:NJ:176:ILE:C	2.23	0.64
6:mJ:11:ALA:HA	16:xJ:195:TYR:CD2	2.32	0.64
16:xJ:53:ALA:O	16:xJ:57:LYS:CG	2.34	0.64
6:aL:38:LEU:CD1	7:bL:24:LEU:HD22	2.28	0.64
16:wL:164:SER:CB	16:xL:36:GLN:OE1	2.44	0.64
16:xL:40:VAL:HG12	16:xL:41:ASN:HD22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zL:361:ARG:HG3	31:NP:1001:CYC:O2D	1.98	0.64
6:GM:135:ARG:HH11	7:JM:149:ARG:HH12	1.39	0.64
6:KN:28:GLN:O	6:KN:32:GLN:NE2	2.29	0.64
7:NO:91:ARG:HH21	9:OO:400:VAL:HG21	1.58	0.64
21:BP:34:GLY:O	21:BP:38:VAL:HG23	1.97	0.64
20:JP:151:PHE:CD2	20:NP:20:PRO:HB3	2.32	0.64
20:KP:5:THR:O	20:KP:9:VAL:HG22	1.98	0.64
21:LP:27:LEU:HB2	22:VP:37:ILE:HD11	1.78	0.64
21:LP:28:ARG:O	21:LP:32:GLN:HG3	1.97	0.64
21:OP:34:GLY:O	21:OP:38:VAL:HG23	1.97	0.64
21:uP:28:ARG:O	21:uP:32:GLN:HG3	1.97	0.64
7:BQ:43:SER:HA	7:BQ:46:SER:HB3	1.79	0.64
6:O2:137:ARG:CG	29:O2:202:PEB:HHC1	2.24	0.64
10:d4:226:ARG:NH2	6:WF:46:GLY:O	2.31	0.64
7:C4:76:ASN:OD1	29:F4:201:PEB:HMC1	1.97	0.64
6:F4:157:ASP:HA	6:F4:160:ILE:HD12	1.80	0.64
7:I5:24:LEU:HA	19:zL:291:ILE:HG23	1.80	0.64
12:E5:209:ARG:HD3	6:II:70:GLY:HA2	1.80	0.64
7:V7:169:PHE:O	7:V7:172:VAL:HG13	1.98	0.64
7:I8:7:ARG:HH21	28:4P:88:LEU:CD2	2.11	0.64
1:X9:321:TYR:CE2	5:D9:84:ARG:NH2	2.65	0.64
18:MC:45:PHE:HZ	18:MC:254:ALA:H	1.42	0.64
18:MC:309:PRO:CD	18:MC:310:SER:N	2.61	0.64
10:dD:278:GLY:N	6:WI:69:PRO:HD2	2.11	0.64
7:GD:33:ASP:OD1	7:GD:33:ASP:N	2.24	0.64
6:EG:17:ARG:O	7:FG:95:TYR:OH	2.16	0.64
14:MG:105:LYS:HE2	14:MG:107:PRO:HG3	1.79	0.64
7:YI:107:ASP:OD1	7:YI:107:ASP:N	2.27	0.64
7:iI:2:LEU:HD12	7:iI:6:SER:CB	2.27	0.64
7:ZJ:108:ARG:HH12	16:xJ:41:ASN:CG	2.04	0.64
6:cJ:67:LYS:HA	6:cJ:73:GLY:O	1.97	0.64
29:IJ:201:PEB:HBC2	16:xJ:255:GLN:HE22	1.62	0.64
6:qJ:38:LEU:HD13	7:rJ:24:LEU:HD22	1.79	0.64
16:xJ:40:VAL:HG12	16:xJ:41:ASN:HD22	1.62	0.64
16:xJ:52:THR:OG1	16:xJ:55:GLN:OE1	2.13	0.64
4:IK:18:PHE:HB3	5:JK:45:THR:HG23	1.80	0.64
7:BL:118:ILE:HG22	7:TL:118:ILE:HD12	1.80	0.64
7:PM:61:CYS:HB2	29:PM:202:PEB:HBD2	1.68	0.64
7:DN:20:GLY:O	7:DN:24:LEU:HB2	1.97	0.64
21:DP:28:ARG:O	21:DP:32:GLN:HG3	1.97	0.64
20:PP:5:THR:O	20:PP:9:VAL:HG22	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YP:87:ARG:HB3	25:YP:88:PRO:HD3	1.80	0.64
20:IP:151:PHE:HE1	21:OP:42:ALA:HB1	1.63	0.64
6:IQ:87:ASP:O	6:IQ:91:ARG:HB2	1.97	0.64
8:eR:75:MET:HE2	29:NR:201:PEB:C3D	2.28	0.64
8:eR:87:MET:O	8:eR:91:GLU:CD	2.41	0.64
7:NR:148:GLU:OE1	7:NR:148:GLU:N	2.30	0.64
7:PR:148:GLU:OE1	7:PR:148:GLU:N	2.30	0.64
7:RR:106:GLU:HA	7:RR:110:LEU:HB2	1.79	0.64
6:SR:138:LEU:HA	29:SR:202:PEB:HMD1	1.80	0.64
6:UR:87:ASP:OD1	7:VR:18:TYR:OH	2.14	0.64
6:WR:142:ARG:HD3	29:WR:202:PEB:CBA	1.94	0.64
4:I1:21:ASN:OD1	4:I1:24:LEU:HB2	1.97	0.64
5:L1:41:VAL:CG2	5:L1:98:ILE:HG13	2.16	0.64
7:N2:106:GLU:HA	7:N2:110:LEU:HB2	1.79	0.64
6:Q2:50:ALA:HA	6:Q2:53:LYS:HD2	1.78	0.64
6:D4:4:VAL:O	6:D4:7:THR:OG1	2.14	0.64
6:L4:53:LYS:HA	6:L4:53:LYS:HE2	1.80	0.64
7:I5:27:LEU:CD2	19:zL:298:ALA:HB3	2.27	0.64
13:k6:161:ILE:CG2	7:V7:136:ALA:HB2	2.27	0.64
3:B7:172:LYS:CB	26:2P:86:PRO:CG	2.72	0.64
4:C7:90:TYR:CZ	5:F7:74:TYR:HE1	2.16	0.64
7:K8:104:VAL:CG1	7:K8:108:ARG:CG	2.76	0.64
7:L8:76:ASN:ND2	6:OR:75:ASN:HA	2.12	0.64
5:H9:137:ALA:HB2	13:kH:200:LEU:HD21	1.78	0.64
6:U9:69:PRO:HB3	7:TR:123:PRO:HA	1.80	0.64
7:DA:67:ILE:HD12	7:DA:74:TYR:HA	1.79	0.64
6:GA:30:ASN:O	6:GA:34:SER:OG	2.16	0.64
7:JA:67:ILE:HD12	7:JA:74:TYR:HA	1.79	0.64
7:HC:74:TYR:HB3	7:HC:78:ARG:HH11	1.61	0.64
18:MC:305:ALA:O	18:MC:307:PRO:HD2	1.95	0.64
6:BD:53:LYS:HA	6:BD:53:LYS:HE2	1.80	0.64
6:FD:4:VAL:O	6:FD:7:THR:OG1	2.14	0.64
6:HD:157:ASP:HA	6:HD:160:ILE:HD12	1.80	0.64
4:IF:108:ASP:HA	4:IF:112:VAL:HG22	1.78	0.64
4:KF:100:VAL:CG1	5:LF:27:LEU:HD13	2.28	0.64
7:BG:140:ALA:HB2	29:BG:203:PEB:HAB2	1.74	0.64
7:JG:43:SER:HA	7:JG:46:SER:HB3	1.79	0.64
6:QI:39:GLU:HA	6:QI:42:GLU:HG2	1.79	0.64
7:HJ:133:ILE:C	7:HJ:135:LYS:N	2.56	0.64
6:YJ:34:SER:HA	6:YJ:37:ARG:HG2	1.77	0.64
6:mJ:81:LYS:HB3	6:mJ:84:ARG:HH21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EL:81:LYS:HB3	6:EL:84:ARG:HH21	1.63	0.64
29:fL:201:PEB:CGC	16:wL:115:PHE:CE1	2.53	0.64
7:RM:57:SER:C	7:RM:61:CYS:SG	2.72	0.64
7:VM:62:GLU:OE2	7:VM:129:ARG:HG3	1.98	0.64
7:FN:113:LEU:HD12	7:FN:113:LEU:C	2.23	0.64
6:KN:13:ASP:OD2	7:LN:108:ARG:NH1	2.30	0.64
14:MN:298:ARG:HD3	14:MN:317:SER:HA	1.79	0.64
20:JP:5:THR:O	20:JP:9:VAL:HG22	1.98	0.64
20:RP:5:THR:O	20:RP:9:VAL:HG22	1.98	0.64
21:SP:28:ARG:O	21:SP:32:GLN:HG3	1.97	0.64
24:XP:80:ARG:NH2	24:XP:87:LEU:HG	2.13	0.64
21:qP:34:GLY:O	21:qP:38:VAL:HG23	1.97	0.64
7:LQ:60:ILE:HD13	7:LQ:60:ILE:C	2.23	0.64
8:eR:108:HIS:NE2	7:PR:84:ARG:HD3	2.09	0.64
8:eR:221:ASN:ND2	7:TR:113:LEU:CD1	2.61	0.64
7:TR:142:ILE:HD12	7:TR:165:VAL:HG11	1.79	0.64
3:B1:205:ARG:CZ	3:B1:205:ARG:HA	2.27	0.64
3:B1:225:VAL:HA	3:B1:228:MET:HE2	1.78	0.64
5:J1:70:GLY:HA2	5:N1:14:ALA:O	1.98	0.64
6:M2:106:ASP:OD2	6:O2:17:ARG:NH1	2.26	0.64
7:C4:157:ASP:OD1	7:C4:159:THR:N	2.21	0.64
6:F4:43:LYS:CE	6:F4:143:ASP:O	2.44	0.64
7:K4:91:ARG:O	7:K4:94:SER:OG	2.10	0.64
7:I5:27:LEU:HD21	19:zL:298:ALA:HB3	1.78	0.64
7:I5:45:VAL:CG1	28:bP:118:LEU:O	2.45	0.64
12:E5:173:PHE:CE2	6:ZI:83:TYR:HE2	2.15	0.64
13:k6:258:VAL:O	6:U7:67:LYS:HE3	1.98	0.64
3:B7:20:PHE:HE2	5:J7:84:ARG:HG2	1.63	0.64
3:B7:224:MET:CE	20:rP:52:LYS:HG3	2.18	0.64
7:I8:79:MET:HB3	15:bM:229:LEU:HD23	1.79	0.64
31:E9:1001:CYC:HBB3	5:H9:75:THR:HA	1.78	0.64
6:KA:13:ASP:OD2	7:LA:108:ARG:NH1	2.30	0.64
7:NB:170:ASP:HB3	28:bP:184:THR:CG2	2.28	0.64
6:CC:33:ARG:HA	6:CC:33:ARG:HE	1.63	0.64
7:DC:108:ARG:NH1	18:MC:193:GLU:OE2	2.30	0.64
7:CD:51:MET:HE2	29:CD:203:PEB:H3A1	1.80	0.64
18:ME:309:PRO:CD	18:ME:310:SER:N	2.61	0.64
1:XF:105:LYS:HZ1	7:aF:91:ARG:NH2	1.79	0.64
7:HG:54:ASP:CB	29:HG:203:PEB:CBA	2.67	0.64
13:kH:88:SER:HB2	13:kH:104:GLN:H	1.62	0.64
13:kH:250:VAL:O	13:kH:250:VAL:HG23	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:22:THR:OG1	27:aP:92:PRO:HG2	1.98	0.64
7:FJ:129:ARG:NH2	29:FJ:203:PEB:O1C	2.31	0.64
6:cJ:81:LYS:HB3	6:cJ:84:ARG:HH21	1.63	0.64
5:HK:39:ASP:CG	29:HK:1002:PEB:HMD1	2.23	0.64
4:MK:13:ASP:OD2	5:NK:108:ARG:NH1	2.30	0.64
7:TK:3:ASP:OD1	7:TK:6:SER:CB	2.45	0.64
6:cL:67:LYS:HA	6:cL:73:GLY:O	1.97	0.64
19:zL:332:LEU:H	20:NP:67:SER:HG	1.43	0.64
6:IM:28:GLN:NE2	7:JM:35:ASN:OD1	2.31	0.64
6:KN:7:THR:HA	30:MN:402:PUB:O2B	1.98	0.64
21:HP:28:ARG:O	21:HP:32:GLN:HG3	1.97	0.64
21:fP:34:GLY:O	21:fP:38:VAL:HG23	1.97	0.64
21:jP:34:GLY:O	21:jP:38:VAL:HG23	1.97	0.64
21:kP:60:LEU:HB2	21:kP:65:ILE:HD11	1.77	0.64
20:pP:5:THR:O	20:pP:9:VAL:HG22	1.98	0.64
29:DQ:201:PEB:CGC	14:MQ:276:GLU:OE1	2.45	0.64
6:GQ:87:ASP:O	6:GQ:91:ARG:HB2	1.97	0.64
14:MQ:174:ARG:HD3	14:MQ:174:ARG:H	1.62	0.64
6:MR:37:ARG:HH12	6:OR:25:GLU:HG3	1.63	0.64
7:PR:142:ILE:HD12	7:PR:165:VAL:HG11	1.79	0.64
6:SR:139:CYS:SG	6:SR:142:ARG:CD	2.86	0.64
4:C1:3:THR:CB	4:C1:4:PRO:CD	2.71	0.64
4:G1:111:LEU:HG	4:G1:115:LEU:HD22	1.79	0.64
5:J1:47:ASN:HD21	5:J1:141:LEU:HD11	1.62	0.64
7:T1:3:ASP:OD1	7:T1:6:SER:CB	2.45	0.64
7:N2:148:GLU:OE1	7:N2:148:GLU:N	2.30	0.64
7:T2:148:GLU:OE1	7:T2:148:GLU:N	2.30	0.64
6:U2:48:HIS:O	6:U2:52:VAL:HG22	1.96	0.64
10:d4:71:ARG:HB3	10:d4:104:LEU:HD22	1.80	0.64
6:D4:34:SER:CB	6:D4:37:ARG:HH21	2.09	0.64
7:K5:108:ARG:HD3	27:aP:276:THR:CG2	2.28	0.64
4:K9:57:GLN:NE2	5:JI:145:THR:O	2.30	0.64
5:N9:35:ASN:O	29:N9:1002:PEB:CMD	2.45	0.64
7:HA:20:GLY:O	7:HA:24:LEU:HB2	1.97	0.64
6:KB:135:ARG:HD3	6:KB:157:ASP:OD1	1.98	0.64
7:VB:62:GLU:OE2	7:VB:129:ARG:HG3	1.98	0.64
7:eB:125:ASN:N	7:eB:125:ASN:OD1	2.31	0.64
6:IC:152:PHE:O	6:IC:156:LEU:HG	1.96	0.64
6:HD:53:LYS:HA	6:HD:53:LYS:HE2	1.80	0.64
6:HD:94:ASN:HD22	7:ID:18:TYR:HD1	1.45	0.64
6:HD:114:ARG:HD3	6:JD:118:ARG:HH12	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ID:133:ILE:HG13	29:ID:203:PEB:HBC1	1.80	0.64
6:JD:157:ASP:HA	6:JD:160:ILE:HD12	1.80	0.64
7:FE:74:TYR:HB3	7:FE:78:ARG:HH11	1.61	0.64
5:DF:63:GLN:HG2	7:PF:15:LYS:HA	1.80	0.64
6:QF:33:ARG:HH12	6:QF:147:GLN:HE21	1.45	0.64
7:BG:134:MET:HE2	7:BG:137:GLN:HG3	1.80	0.64
13:kH:151:VAL:HG11	13:kH:156:THR:HG21	1.79	0.64
7:HJ:5:PHE:CZ	7:HJ:31:ILE:CG1	2.81	0.64
7:RJ:114:LYS:NZ	7:RJ:177:SER:C	2.55	0.64
6:uJ:81:LYS:HB3	6:uJ:84:ARG:HH21	1.63	0.64
16:xJ:242:ARG:NH2	16:xJ:257:ASN:OD1	2.29	0.64
17:yJ:111:CYS:O	30:yJ:303:PUB:HBA3	1.97	0.64
6:AL:152:PHE:CE2	6:AL:156:LEU:HD11	2.33	0.64
6:aL:81:LYS:HB3	6:aL:84:ARG:HH21	1.63	0.64
6:mL:81:LYS:HB3	6:mL:84:ARG:HH21	1.63	0.64
6:hM:36:ALA:HB1	6:hM:147:GLN:HG2	1.78	0.64
7:FN:67:ILE:HD12	7:FN:74:TYR:HA	1.79	0.64
21:DP:34:GLY:O	21:DP:38:VAL:HG23	1.97	0.64
20:GP:5:THR:O	20:GP:9:VAL:HG22	1.98	0.64
21:QP:28:ARG:O	21:QP:32:GLN:HG3	1.97	0.64
21:dP:42:ALA:HB2	20:eP:23:LEU:HD13	1.80	0.64
20:mP:5:THR:O	20:mP:9:VAL:HG22	1.98	0.64
25:1P:87:ARG:HB3	25:1P:88:PRO:HD3	1.80	0.64
7:LQ:43:SER:HA	7:LQ:46:SER:HB3	1.79	0.64
29:eR:401:PEB:HBC2	29:eR:401:PEB:CHB	2.22	0.64
4:M1:43:ALA:O	4:M1:46:GLY:N	2.30	0.64
6:O2:138:LEU:HD12	6:O2:144:MET:HE3	1.80	0.64
7:X2:148:GLU:OE1	7:X2:148:GLU:N	2.30	0.64
6:B4:53:LYS:HA	6:B4:53:LYS:HE2	1.80	0.64
6:B4:151:GLU:H	6:B4:151:GLU:CD	2.04	0.64
6:B4:157:ASP:HA	6:B4:160:ILE:HD12	1.80	0.64
6:D4:53:LYS:HA	6:D4:53:LYS:HE2	1.80	0.64
6:H4:151:GLU:CD	6:H4:151:GLU:H	2.04	0.64
6:J4:4:VAL:O	6:J4:7:THR:OG1	2.14	0.64
7:K5:1:MET:HE1	7:K5:95:TYR:OH	1.95	0.64
13:k6:259:SER:CA	6:U7:67:LYS:HZ2	1.86	0.64
3:B7:121:ASN:ND2	26:2P:52:GLY:HA3	2.11	0.64
5:H7:35:ASN:O	29:H7:1002:PEB:CMD	2.45	0.64
5:H7:66:LEU:O	5:H7:73:ALA:HB3	1.98	0.64
6:W7:99:VAL:HG23	7:Y7:9:VAL:HG21	1.80	0.64
7:K8:104:VAL:HG13	7:K8:108:ARG:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F9:17:GLU:OE1	8:eR:301:PHE:CZ	2.51	0.64
14:MA:228:GLN:O	14:MA:294:ARG:NH1	2.31	0.64
16:AB:106:GLN:HE22	16:AB:110:LYS:HE3	1.62	0.64
6:FD:157:ASP:HA	6:FD:160:ILE:HD12	1.80	0.64
7:KD:173:GLY:O	7:KD:177:SER:OG	2.14	0.64
6:LD:53:LYS:HA	6:LD:53:LYS:HE2	1.80	0.64
6:LD:157:ASP:HA	6:LD:160:ILE:HD12	1.80	0.64
18:ME:300:VAL:O	6:gL:49:GLU:HB2	1.98	0.64
4:MF:143:SER:HB2	6:eJ:69:PRO:HB3	1.80	0.64
7:FG:134:MET:HE2	7:FG:137:GLN:HG3	1.80	0.64
7:HG:134:MET:HE2	7:HG:137:GLN:HG3	1.80	0.64
7:HG:137:GLN:NE2	29:HG:203:PEB:CHA	2.48	0.64
4:II:108:ASP:HA	4:II:112:VAL:HG22	1.78	0.64
6:IJ:81:LYS:HB3	6:IJ:84:ARG:HH21	1.63	0.64
6:aJ:68:ASN:CG	6:aJ:71:GLU:OE1	2.41	0.64
5:FK:57:ARG:HG2	5:FK:57:ARG:NH1	2.06	0.64
4:IK:21:ASN:CG	4:IK:24:LEU:HD12	2.13	0.64
5:JK:47:ASN:HD21	5:JK:141:LEU:CD1	2.09	0.64
6:AL:137:ARG:HH21	29:AL:202:PEB:CHB	2.11	0.64
7:HL:127:SER:O	7:HL:131:VAL:HG12	1.98	0.64
7:NL:114:LYS:HG2	7:NL:176:ILE:C	2.23	0.64
6:oL:29:GLY:HA3	6:qL:25:GLU:O	1.98	0.64
6:uL:161:ASN:C	16:xL:92:LYS:HZ3	2.04	0.64
15:bM:333:ARG:HB2	15:bM:333:ARG:NH1	2.10	0.64
7:DM:85:ASP:OD1	29:DM:201:PEB:CHC	2.45	0.64
7:RM:148:GLU:HB2	29:RM:203:PEB:OA	1.98	0.64
7:JN:67:ILE:HD12	7:JN:74:TYR:HA	1.79	0.64
21:DP:72:MET:HE2	21:DP:78:TYR:CD2	2.32	0.64
20:EP:5:THR:O	20:EP:9:VAL:HG22	1.98	0.64
26:ZP:102:VAL:HG22	26:ZP:104:PRO:HD3	1.80	0.64
27:aP:45:THR:HB	21:uP:14:VAL:HG22	1.80	0.64
21:fP:28:ARG:O	21:fP:32:GLN:HG3	1.97	0.64
21:hP:28:ARG:O	21:hP:32:GLN:HG3	1.97	0.64
20:rP:23:LEU:HB3	21:wP:38:VAL:CG1	2.28	0.64
20:vP:5:THR:O	20:vP:9:VAL:HG22	1.98	0.64
6:KQ:2:LYS:HZ3	30:MQ:404:PUB:CGB	1.99	0.64
6:MR:139:CYS:SG	29:MR:202:PEB:HHA1	2.38	0.64
29:SR:201:PEB:CMB	29:SR:201:PEB:HNA	2.10	0.64
7:VR:61:CYS:CB	29:VR:203:PEB:CBD	2.76	0.64
7:T2:110:LEU:HB3	7:T2:175:ALA:HB1	1.79	0.63
6:U2:87:ASP:OD1	7:V2:18:TYR:OH	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:186:PRO:HG2	6:bI:57:ASP:HB2	0.64	0.63
6:W7:142:ARG:NE	29:W7:202:PEB:NA	2.45	0.63
6:j7:99:VAL:HG23	7:k7:9:VAL:HG21	1.79	0.63
7:I8:27:LEU:HD21	19:zJ:298:ALA:HB3	1.79	0.63
7:K8:112:GLY:HA3	27:3P:269:LYS:CE	2.20	0.63
5:H9:23:GLN:HG3	13:kH:163:ALA:O	1.97	0.63
5:N9:101:ASP:HA	26:ZP:97:GLY:HA3	1.79	0.63
7:NB:170:ASP:CB	28:bP:184:THR:HG23	2.25	0.63
10:dD:298:TYR:CE2	5:FI:17:GLU:HB3	2.33	0.63
7:GD:7:ARG:HA	7:GD:7:ARG:NE	2.11	0.63
6:EG:1:MET:CG	14:MG:196:ASN:HD21	2.10	0.63
6:KG:87:ASP:O	6:KG:91:ARG:HB2	1.97	0.63
6:KJ:72:ALA:HB3	29:KJ:201:PEB:HMA2	1.79	0.63
6:MJ:68:ASN:CG	6:MJ:71:GLU:OE1	2.41	0.63
6:MJ:81:LYS:HB3	6:MJ:84:ARG:HH21	1.63	0.63
6:kJ:111:ALA:HB1	16:xJ:209:GLU:OE2	1.96	0.63
6:qJ:33:ARG:CZ	6:qJ:33:ARG:HB3	2.26	0.63
6:sJ:81:LYS:HB3	6:sJ:84:ARG:HH21	1.63	0.63
19:zJ:363:ARG:CG	21:nP:67:ARG:HH12	2.10	0.63
3:BK:209:GLN:NE2	20:IP:83:ARG:HH11	1.96	0.63
6:AL:81:LYS:HB3	6:AL:84:ARG:HH21	1.63	0.63
6:KL:73:GLY:CA	6:KL:78:LYS:HB3	2.28	0.63
20:EP:10:ASN:OD1	25:YP:507:LYS:HD2	1.98	0.63
21:fP:19:LEU:CD1	20:gP:97:ILE:HD12	2.28	0.63
21:sP:34:GLY:O	21:sP:38:VAL:HG23	1.97	0.63
7:BQ:134:MET:HE2	7:BQ:137:GLN:HG3	1.80	0.63
6:CQ:87:ASP:O	6:CQ:91:ARG:HB2	1.97	0.63
6:EQ:17:ARG:O	7:FQ:95:TYR:OH	2.16	0.63
14:MQ:102:LYS:HB3	14:MQ:105:LYS:HD3	1.81	0.63
6:WR:49:GLU:O	6:WR:53:LYS:CG	2.38	0.63
7:XR:106:GLU:HA	7:XR:110:LEU:HB2	1.79	0.63
5:N1:47:ASN:HD21	5:N1:141:LEU:HD11	1.62	0.63
6:M2:33:ARG:CZ	6:M2:151:GLU:OE2	2.47	0.63
7:V2:148:GLU:OE1	7:V2:148:GLU:N	2.30	0.63
7:C4:58:GLY:HA2	29:C4:203:PEB:C3D	2.26	0.63
6:H4:65:TYR:O	6:H4:71:GLU:HG3	1.99	0.63
7:C5:72:MEN:O	7:C5:78:ARG:CD	2.33	0.63
3:B7:228:MET:HA	20:rP:56:GLN:HG2	1.80	0.63
5:F7:5:PHE:CD1	5:F7:27:LEU:HD22	2.33	0.63
5:H7:77:ARG:NH2	31:H7:1001:CYC:HBD1	2.10	0.63
5:N7:103:SER:HB2	26:2P:95:THR:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B8:104:VAL:HG22	18:ME:266:GLY:CA	2.13	0.63
7:FA:113:LEU:HD12	7:FA:113:LEU:C	2.23	0.63
6:GA:28:GLN:O	6:GA:32:GLN:NE2	2.29	0.63
15:bB:335:ILE:HG13	15:bB:337:PRO:CD	2.29	0.63
7:VB:82:CYS:HA	7:VB:85:ASP:CG	2.24	0.63
6:JD:133:TYR:OH	6:JD:137:ARG:CD	2.39	0.63
5:JF:63:GLN:HG2	20:rP:73:TYR:OH	1.98	0.63
7:HG:43:SER:HA	7:HG:46:SER:HB3	1.79	0.63
14:MG:264:VAL:H	14:MG:267:MET:HB2	1.64	0.63
6:hI:9:VAL:HG22	7:iI:1:MET:HE2	1.77	0.63
6:AJ:152:PHE:CE2	6:AJ:156:LEU:HD11	2.33	0.63
6:IJ:138:LEU:HD22	6:IJ:152:PHE:CD2	2.33	0.63
7:TJ:25:GLN:HG3	25:YP:521:THR:CG2	2.15	0.63
4:GK:21:ASN:N	4:GK:21:ASN:OD1	2.31	0.63
7:NL:114:LYS:CE	7:NL:177:SER:CA	2.55	0.63
6:gL:81:LYS:HB3	6:gL:84:ARG:HH21	1.63	0.63
6:qL:38:LEU:HD13	7:rL:24:LEU:HD22	1.79	0.63
6:qL:81:LYS:HB3	6:qL:84:ARG:HH21	1.63	0.63
6:sL:81:LYS:HB3	6:sL:84:ARG:HH21	1.63	0.63
19:zL:323:MET:CE	20:NP:48:GLU:HA	2.28	0.63
7:VM:84:ARG:HH22	29:VM:201:PEB:C1C	2.10	0.63
7:FN:108:ARG:C	14:MN:184:ARG:HH21	2.06	0.63
7:FN:108:ARG:CG	14:MN:203:GLN:OE1	2.46	0.63
29:FN:201:PEB:HAC1	14:MN:177:SER:OG	1.98	0.63
14:MN:228:GLN:O	14:MN:294:ARG:NH1	2.31	0.63
21:HP:45:ALA:HA	25:YP:34:PHE:CE2	2.32	0.63
21:MP:34:GLY:O	21:MP:38:VAL:HG23	1.97	0.63
20:TP:5:THR:O	20:TP:9:VAL:HG22	1.98	0.63
21:hP:34:GLY:O	21:hP:38:VAL:HG23	1.97	0.63
21:qP:10:ASN:OD1	28:4P:50:TYR:HA	1.98	0.63
26:2P:102:VAL:HG22	26:2P:104:PRO:HD3	1.80	0.63
7:BQ:47:ASN:CB	29:BQ:203:PEB:HMA1	2.28	0.63
7:DQ:136:ALA:HB3	29:DQ:203:PEB:O2C	1.95	0.63
29:eR:401:PEB:HAA2	7:PR:82:CYS:CB	2.19	0.63
6:QR:65:TYR:OH	6:QR:66:LEU:HD21	1.98	0.63
2:A1:160:VAL:HG11	7:g1:107:ASP:HB2	1.78	0.63
8:e2:87:MET:O	8:e2:91:GLU:CD	2.41	0.63
6:O2:161:ASN:O	6:O2:164:SER:OG	2.14	0.63
6:K3:53:LYS:HA	6:K3:53:LYS:CE	2.21	0.63
10:d4:111:ARG:HD3	10:d4:180:TYR:HE2	1.62	0.63
7:C4:133:ILE:HG13	29:C4:203:PEB:HBC1	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J4:53:LYS:HE2	6:J4:53:LYS:HA	1.80	0.63
7:K5:112:GLY:CA	27:aP:269:LYS:HE3	2.27	0.63
12:E5:162:ASN:CG	29:kI:203:PEB:O1B	2.42	0.63
13:k6:10:TYR:CD1	6:YB:53:LYS:HD3	2.33	0.63
13:k6:88:SER:HB2	13:k6:104:GLN:H	1.62	0.63
5:L7:35:ASN:O	29:L7:1002:PEB:CMD	2.45	0.63
7:C8:69:PRO:HG3	7:C8:74:TYR:CZ	2.33	0.63
5:H9:66:LEU:O	5:H9:73:ALA:HB3	1.98	0.63
4:K9:57:GLN:CD	5:JI:145:THR:HG1	2.04	0.63
15:bB:317:ASP:HB3	15:bB:320:GLU:HB2	1.79	0.63
15:bB:370:TYR:O	15:bB:374:THR:HG22	1.98	0.63
6:fB:121:ASN:OD1	6:fB:121:ASN:O	2.17	0.63
10:dD:121:ASP:O	10:dD:125:ARG:HG2	1.99	0.63
7:CD:91:ARG:O	7:CD:94:SER:OG	2.09	0.63
6:LD:65:TYR:O	6:LD:71:GLU:HG3	1.99	0.63
6:CE:33:ARG:HA	6:CE:33:ARG:HE	1.63	0.63
6:CG:87:ASP:O	6:CG:91:ARG:HB2	1.97	0.63
6:IG:2:LYS:NZ	14:MG:254:VAL:CG1	2.57	0.63
6:IG:33:ARG:HE	6:IG:36:ALA:HB3	1.63	0.63
7:JG:134:MET:HE2	7:JG:137:GLN:HG3	1.80	0.63
13:kH:109:GLU:HB2	4:EK:67:THR:O	1.98	0.63
7:FJ:157:ASP:HB2	25:YP:638:ASN:CG	2.23	0.63
6:GJ:81:LYS:HB3	6:GJ:84:ARG:HH21	1.63	0.63
6:gJ:81:LYS:HB3	6:gJ:84:ARG:HH21	1.63	0.63
6:oJ:81:LYS:HB3	6:oJ:84:ARG:HH21	1.63	0.63
6:uJ:68:ASN:CG	6:uJ:71:GLU:OE1	2.41	0.63
5:JK:22:THR:CG2	15:bM:331:ALA:CB	2.21	0.63
17:BM:182:GLU:CB	29:BM:301:PEB:CMD	2.55	0.63
7:DO:38:LEU:HB3	29:DO:202:PEB:CMD	2.28	0.63
21:FP:34:GLY:O	21:FP:38:VAL:HG23	1.97	0.63
21:nP:28:ARG:O	21:nP:32:GLN:HG3	1.97	0.63
6:AQ:38:LEU:HD13	6:AQ:98:VAL:HG23	1.80	0.63
6:AQ:87:ASP:O	6:AQ:91:ARG:HB2	1.97	0.63
6:EQ:33:ARG:HE	6:EQ:36:ALA:HB3	1.63	0.63
7:LQ:133:ILE:HG23	29:LQ:202:PEB:CBC	2.27	0.63
6:UR:65:TYR:OH	6:UR:66:LEU:HD21	1.98	0.63
6:WR:142:ARG:CD	29:WR:202:PEB:HBA1	2.19	0.63
6:l1:135:ARG:HD2	6:l1:157:ASP:OD2	1.98	0.63
7:R2:148:GLU:OE1	7:R2:148:GLU:N	2.30	0.63
6:U2:114:ARG:HG2	6:U2:114:ARG:NH2	2.13	0.63
6:U2:138:LEU:HD11	6:U2:152:PHE:CE2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X2:107:ASP:OD1	7:X2:108:ARG:N	2.32	0.63
6:B4:65:TYR:O	6:B4:71:GLU:HG3	1.99	0.63
7:B5:108:ARG:NE	18:MC:266:GLY:C	2.45	0.63
4:C7:68:GLN:CB	4:GF:139:SER:HB3	2.19	0.63
5:F7:165:ASP:CG	12:E8:38:LEU:HD12	2.22	0.63
29:I8:201:PEB:HMC3	15:bM:403:PRO:CG	2.27	0.63
7:L8:70:GLY:O	6:WM:61:ALA:CB	2.47	0.63
5:L9:63:GLN:NE2	27:3P:284:VAL:HG22	2.13	0.63
6:U9:83:TYR:CE2	13:kH:261:MET:HG2	1.93	0.63
6:l9:90:MET:HA	6:l9:93:VAL:HG12	1.79	0.63
6:BD:157:ASP:HA	6:BD:160:ILE:HD12	1.80	0.63
7:MD:157:ASP:OD1	7:MD:159:THR:N	2.21	0.63
7:LE:77:ARG:NH1	18:ME:219:SER:O	2.31	0.63
18:ME:303:PHE:HD2	6:gL:83:TYR:CZ	2.10	0.63
7:iF:2:LEU:HD12	7:iF:6:SER:CB	2.27	0.63
6:CG:112:GLY:HA3	7:HG:77:ARG:HA	1.81	0.63
3:BI:222:LEU:HD23	27:aP:63:ARG:HG3	1.75	0.63
6:AJ:81:LYS:HB3	6:AJ:84:ARG:HH21	1.63	0.63
6:EJ:2:LYS:HD3	6:GJ:17:ARG:NH2	2.13	0.63
7:FJ:115:GLU:OE2	17:yJ:75:LYS:HG2	1.99	0.63
6:SJ:67:LYS:HD3	26:2P:125:ASP:OD1	1.98	0.63
6:WJ:81:LYS:HB3	6:WJ:84:ARG:HH21	1.63	0.63
6:YJ:68:ASN:CG	6:YJ:71:GLU:OE1	2.42	0.63
6:aJ:38:LEU:CD1	7:bJ:24:LEU:HD22	2.28	0.63
6:kJ:81:LYS:HB3	6:kJ:84:ARG:HH21	1.63	0.63
29:nJ:201:PEB:CBD	16:xJ:108:ARG:CZ	2.75	0.63
6:oJ:29:GLY:HA3	6:qJ:25:GLU:O	1.98	0.63
4:GK:111:LEU:HG	4:GK:115:LEU:HD22	1.79	0.63
5:NK:19:LEU:HD12	5:NK:23:GLN:HB2	1.80	0.63
6:AL:54:GLU:CG	6:AL:133:TYR:OH	2.40	0.63
6:QL:68:ASN:CG	6:QL:71:GLU:OE1	2.42	0.63
6:eL:68:ASN:CG	6:eL:71:GLU:OE1	2.42	0.63
6:uL:81:LYS:HB3	6:uL:84:ARG:HH21	1.63	0.63
7:FN:24:LEU:HD23	7:FN:27:LEU:HD13	1.80	0.63
21:dP:90:ARG:HD2	20:eP:16:ARG:N	2.14	0.63
20:lP:5:THR:O	20:lP:9:VAL:HG22	1.98	0.63
31:wP:1001:CYC:O2A	25:1P:702:ARG:NH1	2.31	0.63
7:BQ:136:ALA:HB3	29:BQ:203:PEB:CGC	2.28	0.63
8:eR:224:PHE:CD2	7:TR:116:THR:HG23	2.33	0.63
7:RR:148:GLU:OE1	7:RR:148:GLU:N	2.30	0.63
4:E1:77:SER:CB	13:k6:104:GLN:HE22	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H1:39:ASP:CG	29:H1:1002:PEB:HMD1	2.23	0.63
8:e2:299:VAL:O	5:F7:17:GLU:CB	2.46	0.63
6:M2:118:ARG:HD3	6:W2:114:ARG:HH22	1.62	0.63
6:C3:42:GLU:O	6:C3:42:GLU:CG	2.46	0.63
6:D4:51:VAL:CG1	6:D4:137:ARG:HH12	2.11	0.63
6:H4:4:VAL:O	6:H4:7:THR:OG1	2.14	0.63
29:L5:201:PEB:CBC	13:k6:195:ARG:NH1	2.49	0.63
7:A5:88:ILE:HD11	11:D5:229:VAL:HG11	1.81	0.63
4:K7:57:GLN:NE2	5:JF:145:THR:CB	2.62	0.63
6:Z7:17:ARG:O	7:a7:95:TYR:OH	2.13	0.63
6:U9:67:LYS:NZ	13:kH:259:SER:CB	2.58	0.63
16:AB:173:GLU:OE2	7:kB:115:GLU:OE1	2.16	0.63
7:eB:63:ASN:O	7:eB:65:GLY:N	2.30	0.63
29:LC:201:PEB:HBB1	18:MC:219:SER:HB3	1.81	0.63
6:BD:34:SER:HB2	6:BD:37:ARG:HH21	1.62	0.63
6:DD:65:TYR:O	6:DD:71:GLU:HG3	1.99	0.63
6:FD:81:LYS:HD3	6:FD:84:ARG:NH1	2.12	0.63
6:JD:65:TYR:O	6:JD:71:GLU:HG3	1.99	0.63
29:HE:201:PEB:O2C	18:ME:150:SER:HB2	1.98	0.63
18:ME:268:VAL:CG1	7:PI:147:THR:O	2.44	0.63
7:FG:141:PHE:CE1	29:FG:203:PEB:HMA2	2.32	0.63
7:LG:134:MET:HE2	7:LG:137:GLN:HG3	1.80	0.63
6:GJ:118:ARG:HH12	6:IJ:114:ARG:NH1	1.96	0.63
6:KJ:81:LYS:HB3	6:KJ:84:ARG:HH21	1.63	0.63
6:QJ:68:ASN:CG	6:QJ:71:GLU:OE1	2.42	0.63
4:EK:4:PRO:CG	4:EK:30:ARG:HD3	2.20	0.63
7:FL:125:ASN:ND2	7:XL:70:GLY:CA	2.61	0.63
6:hM:145:SER:OG	6:hM:147:GLN:OE1	2.14	0.63
6:EN:28:GLN:O	6:EN:32:GLN:NE2	2.29	0.63
6:EN:30:ASN:O	6:EN:34:SER:OG	2.16	0.63
6:IO:140:VAL:HG11	6:IO:146:ALA:CB	2.29	0.63
20:JP:47:ARG:O	20:JP:51:VAL:HG23	1.99	0.63
25:YP:454:PHE:HB3	25:YP:536:GLY:HA3	1.80	0.63
20:cP:5:THR:O	20:cP:9:VAL:HG22	1.98	0.63
21:fP:110:ASN:ND2	25:1P:654:ARG:HG3	2.13	0.63
20:gP:5:THR:O	20:gP:9:VAL:HG22	1.98	0.63
21:qP:28:ARG:O	21:qP:32:GLN:HG3	1.97	0.63
20:rP:94:TYR:CE2	21:wP:13:ASP:HB2	2.34	0.63
6:EQ:87:ASP:O	6:EQ:91:ARG:HB2	1.97	0.63
6:GQ:33:ARG:HE	6:GQ:36:ALA:HB3	1.63	0.63
6:IQ:33:ARG:HE	6:IQ:36:ALA:HB3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LQ:134:MET:HE2	7:LQ:137:GLN:HG3	1.80	0.63
7:NR:106:GLU:HA	7:NR:110:LEU:HB2	1.79	0.63
7:TR:110:LEU:HB3	7:TR:175:ALA:HB1	1.79	0.63
7:TR:148:GLU:OE1	7:TR:148:GLU:N	2.30	0.63
2:A1:105:GLU:OE1	30:A1:305:PUB:NC	2.32	0.63
6:O2:33:ARG:CZ	6:O2:151:GLU:OE2	2.47	0.63
6:O2:65:TYR:OH	6:O2:66:LEU:HD21	1.98	0.63
6:Q2:137:ARG:HH22	29:Q2:202:PEB:CGB	2.11	0.63
6:U2:137:ARG:NH2	29:U2:202:PEB:CGB	2.53	0.63
6:D4:157:ASP:HA	6:D4:160:ILE:HD12	1.80	0.63
7:E4:132:SER:HA	7:E4:135:LYS:HB2	1.81	0.63
6:L4:157:ASP:HA	6:L4:160:ILE:HD12	1.80	0.63
6:L4:157:ASP:OD1	6:L4:158:TYR:N	2.32	0.63
7:M4:60:ILE:HG21	7:M4:67:ILE:HD11	1.81	0.63
7:I5:30:PHE:CE2	28:bP:132:PRO:CD	2.71	0.63
7:L5:108:ARG:HD3	4:I7:64:PRO:CG	2.28	0.63
7:F8:79:MET:HE2	7:kF:147:THR:CG2	2.28	0.63
7:I8:7:ARG:HB3	28:4P:132:PRO:HA	1.80	0.63
7:I8:7:ARG:HH22	28:4P:88:LEU:CD2	2.11	0.63
3:B9:172:LYS:CB	26:ZP:86:PRO:CG	2.76	0.63
5:F9:35:ASN:O	29:F9:1002:PEB:CMD	2.45	0.63
7:c9:52:VAL:HG11	7:c9:87:GLU:CG	2.29	0.63
7:DA:76:ASN:HD22	6:KA:109:GLY:C	2.07	0.63
10:dD:71:ARG:HB3	10:dD:104:LEU:HD22	1.79	0.63
6:DD:31:ILE:HG23	7:ED:31:ILE:HG23	1.79	0.63
6:DD:157:ASP:HA	6:DD:160:ILE:HD12	1.80	0.63
18:ME:261:VAL:HG13	6:SI:68:ASN:OD1	1.99	0.63
7:BG:43:SER:HA	7:BG:46:SER:HB3	1.79	0.63
6:EG:33:ARG:HE	6:EG:36:ALA:HB3	1.63	0.63
7:iI:2:LEU:CD1	7:iI:6:SER:HB2	2.28	0.63
6:jI:21:ASN:ND2	6:II:151:GLU:OE1	2.29	0.63
7:BJ:118:ILE:HG22	7:TJ:118:ILE:HD12	1.80	0.63
6:CJ:81:LYS:HB3	6:CJ:84:ARG:HH21	1.63	0.63
7:FJ:125:ASN:ND2	7:XJ:70:GLY:CA	2.61	0.63
6:YJ:81:LYS:HB3	6:YJ:84:ARG:HH21	1.63	0.63
19:zJ:143:LYS:HA	19:zJ:147:GLU:HB2	1.81	0.63
29:fL:201:PEB:O1C	16:wL:115:PHE:CD1	2.46	0.63
6:iL:81:LYS:HB3	6:iL:84:ARG:HH21	1.63	0.63
7:jL:115:GLU:OE1	16:wL:56:THR:CB	2.46	0.63
15:bM:343:PHE:CZ	20:mP:63:PRO:C	2.76	0.63
6:UM:67:LYS:NZ	14:MQ:97:PHE:CZ	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:JN:33:ASP:HA	7:JN:36:LYS:HD3	1.78	0.63
6:CO:42:GLU:O	6:CO:42:GLU:CG	2.46	0.63
21:IP:34:GLY:O	21:IP:38:VAL:HG23	1.97	0.63
20:NP:5:THR:O	20:NP:9:VAL:HG22	1.98	0.63
20:eP:5:THR:O	20:eP:9:VAL:HG22	1.98	0.63
20:rP:5:THR:O	20:rP:9:VAL:HG22	1.98	0.63
21:sP:67:ARG:CG	21:sP:68:PRO:HD2	2.20	0.63
21:wP:34:GLY:O	21:wP:38:VAL:HG23	1.97	0.63
7:DQ:134:MET:HE2	7:DQ:137:GLN:HG3	1.80	0.63
6:KQ:87:ASP:O	6:KQ:91:ARG:HB2	1.97	0.63
8:eR:63:VAL:HB	6:OR:107:GLU:CB	2.29	0.63
6:MR:91:ARG:NH2	7:VR:74:TYR:OH	2.31	0.63
6:UR:114:ARG:C	6:UR:118:ARG:HH21	2.07	0.63
4:K1:143:SER:OG	29:cJ:202:PEB:CMA	2.39	0.63
6:O2:137:ARG:NH2	29:O2:202:PEB:C4B	2.62	0.63
6:S2:65:TYR:OH	6:S2:66:LEU:HD21	1.99	0.63
6:F4:65:TYR:O	6:F4:71:GLU:HG3	1.99	0.63
7:M4:77:ARG:HH21	7:M4:78:ARG:CG	2.12	0.63
12:E5:72:MET:CB	5:HI:151:GLY:O	2.46	0.63
13:k6:151:VAL:HG11	13:k6:156:THR:HG21	1.79	0.63
7:i7:52:VAL:HG11	7:i7:87:GLU:CG	2.29	0.63
7:k7:39:ASP:OD1	7:k7:153:PHE:HE1	1.82	0.63
7:B8:108:ARG:HE	7:B8:108:ARG:CA	2.09	0.63
7:I8:79:MET:HB3	15:bM:229:LEU:CD2	2.29	0.63
3:B9:20:PHE:HE2	5:J9:84:ARG:HG2	1.64	0.63
4:E9:93:ARG:HH11	8:eR:298:GLY:HA3	1.64	0.63
7:V9:169:PHE:O	7:V9:172:VAL:HG13	1.98	0.63
6:EA:30:ASN:O	6:EA:34:SER:OG	2.16	0.63
7:FA:115:GLU:CD	14:MA:111:ARG:CG	2.71	0.63
14:MA:298:ARG:HD3	14:MA:317:SER:HA	1.79	0.63
10:dD:283:ARG:HD3	7:TI:147:THR:HG22	1.79	0.63
6:DD:51:VAL:CG1	6:DD:137:ARG:HH12	2.11	0.63
6:AG:20:SER:OG	6:AG:21:ASN:N	2.32	0.63
6:GG:111:ALA:CB	29:MG:405:PEB:OA	2.47	0.63
14:MG:96:LYS:HD2	14:MG:96:LYS:C	2.24	0.63
4:EI:2:LYS:HG2	4:KI:22:THR:HG21	1.79	0.63
5:LI:68:GLN:CD	27:aP:110:SER:CB	2.72	0.63
6:SJ:81:LYS:HB3	6:SJ:84:ARG:HH21	1.63	0.63
6:gJ:68:ASN:CG	6:gJ:71:GLU:OE1	2.42	0.63
6:mJ:68:ASN:CG	6:mJ:71:GLU:OE1	2.42	0.63
6:hK:135:ARG:HD2	6:hK:157:ASP:OD2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EL:2:LYS:HD3	6:GL:17:ARG:NH2	2.13	0.63
6:EL:68:ASN:CG	6:EL:71:GLU:OE1	2.41	0.63
6:IL:140:VAL:HG21	6:IL:146:ALA:HA	1.81	0.63
6:KL:81:LYS:HB3	6:KL:84:ARG:HH21	1.63	0.63
6:WL:81:LYS:HB3	6:WL:84:ARG:HH21	1.63	0.63
6:YL:81:LYS:HB3	6:YL:84:ARG:HH21	1.63	0.63
6:aL:68:ASN:CG	6:aL:71:GLU:OE1	2.41	0.63
6:kL:91:ARG:NH2	7:tL:74:TYR:HH	1.96	0.63
6:KN:111:ALA:HB1	14:MN:269:GLU:HG2	1.80	0.63
20:EP:47:ARG:O	20:EP:51:VAL:HG23	1.99	0.63
25:YP:166:GLY:O	25:YP:219:TYR:OH	2.17	0.63
7:DQ:43:SER:HA	7:DQ:46:SER:HB3	1.79	0.63
7:FQ:43:SER:HA	7:FQ:46:SER:HB3	1.79	0.63
14:MQ:172:SER:CB	14:MQ:174:ARG:HE	2.12	0.63
4:M1:93:ARG:HD2	5:N1:17:GLU:C	2.24	0.63
7:P2:142:ILE:HD12	7:P2:165:VAL:HG11	1.79	0.63
6:Q2:139:CYS:O	6:Q2:143:ASP:HB2	1.98	0.63
6:B4:157:ASP:OD1	6:B4:158:TYR:N	2.32	0.63
6:D4:65:TYR:O	6:D4:71:GLU:HG3	1.99	0.63
7:E4:59:MET:HE1	7:E4:130:ALA:HA	0.63	0.63
6:F4:28:GLN:O	6:F4:32:GLN:NE2	2.32	0.63
6:L4:65:TYR:O	6:L4:71:GLU:HG3	1.99	0.63
7:I5:18:TYR:CE1	21:LP:128:GLN:NE2	2.66	0.63
3:B7:197:PHE:CB	21:QP:50:THR:CB	2.74	0.63
5:J7:77:ARG:HH11	31:J7:1001:CYC:HBD1	1.64	0.63
7:I8:79:MET:CE	15:bM:229:LEU:CD1	2.76	0.63
5:J9:77:ARG:HH11	31:J9:1001:CYC:HBD1	1.63	0.63
7:JB:148:GLU:N	7:JB:148:GLU:OE1	2.32	0.63
7:LC:120:LEU:HG	18:MC:215:THR:HG22	1.81	0.63
6:DD:157:ASP:OD1	6:DD:158:TYR:N	2.32	0.63
3:BF:30:ARG:HG3	4:IF:14:ASN:HD22	1.64	0.63
7:JG:87:GLU:OE2	14:MG:264:VAL:HG22	1.98	0.63
5:JI:11:GLN:NE2	27:aP:119:ALA:HB3	2.14	0.63
6:eJ:81:LYS:HB3	6:eJ:84:ARG:HH21	1.63	0.63
6:mJ:27:ILE:HB	7:nJ:38:LEU:HD21	1.79	0.63
29:pJ:202:PEB:OD	6:qJ:33:ARG:CD	2.44	0.63
7:FL:115:GLU:OE2	17:yL:75:LYS:HG2	1.99	0.63
6:GL:95:TYR:O	6:GL:99:VAL:CG2	2.47	0.63
6:ML:81:LYS:HB3	6:ML:84:ARG:HH21	1.63	0.63
6:eL:81:LYS:HB3	6:eL:84:ARG:HH21	1.63	0.63
16:xL:42:SER:O	16:xL:43:LYS:CB	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:bM:374:THR:HA	21:oP:65:ILE:CG2	2.28	0.63
6:KM:135:ARG:HD3	6:KM:157:ASP:OD1	1.98	0.63
20:AP:97:ILE:HD12	21:BP:19:LEU:CD1	2.29	0.63
20:gP:47:ARG:O	20:gP:51:VAL:HG23	1.99	0.63
20:iP:5:THR:O	20:iP:9:VAL:HG22	1.98	0.63
20:iP:47:ARG:O	20:iP:51:VAL:HG23	1.99	0.63
20:pP:47:ARG:O	20:pP:51:VAL:HG23	1.99	0.63
7:HQ:141:PHE:HE2	29:HQ:203:PEB:HHA1	1.60	0.63
6:KQ:33:ARG:HE	6:KQ:36:ALA:HB3	1.63	0.63
6:MR:33:ARG:CZ	6:MR:151:GLU:OE2	2.47	0.63
6:MR:65:TYR:OH	6:MR:66:LEU:HD21	1.99	0.63
6:UR:17:ARG:CZ	6:WR:2:LYS:HZ2	2.12	0.63
3:B1:225:VAL:HA	3:B1:228:MET:CE	2.29	0.63
8:e2:291:ILE:CD1	7:T2:170:ASP:CA	2.56	0.63
7:P2:61:CYS:SG	29:P2:202:PEB:HMD3	2.39	0.63
7:R2:142:ILE:HD12	7:R2:165:VAL:HG11	1.79	0.63
7:C4:77:ARG:HH21	7:C4:78:ARG:CG	2.12	0.63
6:J4:54:GLU:CG	6:J4:137:ARG:HH11	2.12	0.63
7:M4:50:CYS:CB	29:M4:203:PEB:HAA1	2.25	0.63
7:I8:158:CYS:HG	29:I8:202:PEB:HAA1	0.81	0.63
12:E8:173:PHE:HE2	6:ZF:83:TYR:CE2	2.15	0.63
12:E8:186:PRO:CD	6:bF:57:ASP:HB3	2.28	0.63
3:B9:6:LEU:HD22	31:L9:1001:CYC:HBA2	1.81	0.63
4:C9:57:GLN:HE22	4:GI:61:ASN:ND2	1.97	0.63
5:H9:35:ASN:O	29:H9:1002:PEB:CMD	2.45	0.63
5:L9:35:ASN:O	29:L9:1002:PEB:CMD	2.45	0.63
7:PB:61:CYS:HB3	29:PB:202:PEB:CMD	2.20	0.63
6:FD:157:ASP:OD1	6:FD:158:TYR:N	2.32	0.63
6:HD:114:ARG:CZ	6:JD:118:ARG:NH1	2.62	0.63
6:HD:157:ASP:OD1	6:HD:158:TYR:N	2.32	0.63
6:IE:14:ALA:CB	18:ME:51:PRO:HG3	2.29	0.63
18:ME:215:THR:O	18:ME:216:ARG:C	2.37	0.63
5:LI:68:GLN:OE1	27:aP:110:SER:OG	2.14	0.63
7:PI:33:ASP:HB2	7:PI:36:LYS:HD3	1.81	0.63
7:HJ:133:ILE:O	7:HJ:136:ALA:N	2.31	0.63
6:oJ:147:GLN:OE1	29:rJ:202:PEB:CMC	2.47	0.63
7:gK:171:ARG:CZ	14:MN:97:PHE:CZ	2.81	0.63
6:KL:73:GLY:CA	6:KL:78:LYS:HG3	2.23	0.63
6:cL:81:LYS:HB3	6:cL:84:ARG:HH21	1.63	0.63
6:oL:81:LYS:HB3	6:oL:84:ARG:HH21	1.63	0.63
6:UM:67:LYS:HD3	14:MQ:97:PHE:HE1	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CN:57:ASP:N	6:CN:57:ASP:OD1	2.32	0.63
20:AP:5:THR:O	20:AP:9:VAL:HG22	1.98	0.63
20:GP:47:ARG:O	20:GP:51:VAL:HG23	1.99	0.63
21:SP:42:ALA:HB2	20:TP:23:LEU:HD13	1.79	0.63
25:YP:343:PHE:CE1	25:YP:376:LEU:HD21	2.34	0.63
26:ZP:145:GLY:HA3	26:ZP:156:ARG:HD3	1.81	0.63
21:dP:91:TYR:CZ	20:eP:12:ASP:OD1	2.52	0.63
20:eP:106:GLU:OE1	23:yP:173:LEU:HA	1.99	0.63
6:CQ:112:GLY:HA3	7:HQ:77:ARG:HA	1.81	0.63
7:FQ:50:CYS:O	29:FQ:203:PEB:CBA	2.46	0.63
7:HQ:137:GLN:OE1	29:HQ:203:PEB:NB	2.31	0.63
7:PR:61:CYS:SG	29:PR:202:PEB:HMD3	2.39	0.63
6:QR:92:LEU:HB3	6:QR:105:LEU:CD2	2.25	0.63
6:UR:17:ARG:CZ	6:WR:2:LYS:NZ	2.61	0.63
29:e2:401:PEB:HMA1	7:P2:59:MET:CE	2.29	0.62
6:M2:138:LEU:CA	29:M2:202:PEB:HMD1	2.29	0.62
6:U2:65:TYR:OH	6:U2:66:LEU:HD21	1.98	0.62
7:X2:61:CYS:SG	29:X2:202:PEB:HMD3	2.39	0.62
6:B4:34:SER:CB	6:B4:37:ARG:HH21	2.11	0.62
6:F4:53:LYS:HE2	6:F4:53:LYS:HA	1.80	0.62
7:I4:54:ASP:OD2	29:I4:203:PEB:HHA1	1.98	0.62
7:B5:104:VAL:CB	18:MC:265:LYS:HG3	2.28	0.62
7:I5:158:CYS:HG	29:I5:202:PEB:HAA1	0.81	0.62
12:E5:40:VAL:CG1	7:a9:26:ALA:C	2.72	0.62
5:F7:35:ASN:O	29:F7:1002:PEB:CMD	2.45	0.62
7:I8:32:ALA:O	7:I8:33:ASP:CB	2.47	0.62
7:I8:79:MET:CE	15:bM:229:LEU:HD12	2.28	0.62
7:L8:79:MET:HE3	13:kH:233:VAL:HG21	0.64	0.62
7:A8:88:ILE:HD11	11:D8:229:VAL:HG11	1.81	0.62
6:Q9:49:GLU:HG2	4:EK:46:GLY:O	1.99	0.62
7:m9:39:ASP:OD1	7:m9:153:PHE:HE1	1.82	0.62
7:DA:84:ARG:HG2	14:MA:150:SER:HB3	1.80	0.62
6:EA:96:CYS:HG	6:EA:105:LEU:HG	1.60	0.62
6:KA:31:ILE:HA	7:LA:31:ILE:HD12	1.81	0.62
6:GB:152:PHE:CE2	6:GB:156:LEU:CD1	2.77	0.62
6:QB:9:VAL:HG13	7:RB:95:TYR:CD1	2.34	0.62
18:MC:284:LEU:HD11	5:DF:18:PHE:CZ	2.33	0.62
6:BD:29:GLY:HA2	6:BD:32:GLN:NE2	2.14	0.62
6:HD:65:TYR:O	6:HD:71:GLU:HG3	1.99	0.62
7:KD:146:ALA:HA	29:KD:203:PEB:O1B	1.98	0.62
7:mF:1:MET:SD	7:mF:108:ARG:NE	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MG:228:GLN:O	14:MG:294:ARG:NH2	2.32	0.62
7:gI:107:ASP:OD1	7:gI:107:ASP:N	2.28	0.62
7:HJ:127:SER:O	7:HJ:131:VAL:HG12	1.98	0.62
7:LJ:26:ALA:CB	28:4P:231:ILE:HG13	2.29	0.62
6:QJ:81:LYS:HB3	6:QJ:84:ARG:HH21	1.63	0.62
6:eJ:68:ASN:CG	6:eJ:71:GLU:OE1	2.42	0.62
6:kJ:91:ARG:NH2	7:tJ:74:TYR:HH	1.97	0.62
6:qJ:81:LYS:HB3	6:qJ:84:ARG:HH21	1.63	0.62
3:BK:207:ARG:HH12	3:BK:212:GLN:CA	2.10	0.62
29:HK:1002:PEB:CBD	4:IK:33:ARG:HE	2.12	0.62
7:VK:159:THR:HB	14:MN:103:ARG:CD	2.26	0.62
7:FL:129:ARG:NH2	29:FL:203:PEB:O1C	2.31	0.62
7:JL:5:PHE:CE2	7:JL:31:ILE:CD1	2.75	0.62
7:JL:35:ASN:ND2	29:JL:202:PEB:O1C	2.32	0.62
6:OL:81:LYS:HB3	6:OL:84:ARG:HH21	1.63	0.62
6:SL:81:LYS:HB3	6:SL:84:ARG:HH21	1.63	0.62
6:UL:71:GLU:O	6:UL:73:GLY:N	2.32	0.62
6:kL:68:ASN:CG	6:kL:71:GLU:OE1	2.42	0.62
6:oL:68:ASN:CG	6:oL:71:GLU:OE1	2.42	0.62
7:pL:111:ASN:ND2	16:xL:257:ASN:HB3	2.14	0.62
6:uL:68:ASN:CG	6:uL:71:GLU:OE1	2.41	0.62
7:NM:170:ASP:OD1	28:4P:184:THR:CG2	2.46	0.62
7:VM:82:CYS:HA	7:VM:85:ASP:CG	2.24	0.62
7:eM:125:ASN:N	7:eM:125:ASN:OD1	2.31	0.62
6:fM:99:VAL:HA	7:gM:5:PHE:HB3	1.81	0.62
20:CP:47:ARG:O	20:CP:51:VAL:HG23	1.99	0.62
20:NP:47:ARG:O	20:NP:51:VAL:HG23	1.99	0.62
21:dP:28:ARG:O	21:dP:32:GLN:HG3	1.97	0.62
2:A1:103:CYS:SG	30:A1:305:PUB:HAA1	2.39	0.62
6:h1:5:ILE:CB	7:i1:3:ASP:OD2	2.42	0.62
6:h1:32:GLN:C	6:h1:33:ARG:HH22	2.05	0.62
6:Q2:13:ASP:OD2	7:R2:92:TYR:CE1	2.52	0.62
6:S2:37:ARG:NH1	6:S2:97:LEU:O	2.31	0.62
29:S2:201:PEB:CMB	29:S2:201:PEB:HNA	2.12	0.62
7:J3:115:GLU:OE2	9:O3:252:ARG:NH1	2.32	0.62
9:O3:246:ASP:HB2	9:O3:252:ARG:HH12	1.65	0.62
6:J4:65:TYR:O	6:J4:71:GLU:HG3	1.99	0.62
6:J4:157:ASP:OD1	6:J4:158:TYR:N	2.32	0.62
5:L7:18:PHE:HD1	20:TP:67:SER:HB3	1.64	0.62
7:a7:167:SER:OG	12:E8:37:VAL:HG21	1.99	0.62
7:c7:52:VAL:HG11	7:c7:87:GLU:CG	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m7:39:ASP:OD1	7:m7:153:PHE:HE1	1.82	0.62
7:B8:104:VAL:CG2	18:ME:265:LYS:C	2.64	0.62
2:A9:205:ARG:HH12	2:A9:285:SER:HA	1.64	0.62
29:LC:201:PEB:HHB1	18:MC:219:SER:OG	1.99	0.62
18:MC:285:TYR:O	5:DF:18:PHE:N	2.29	0.62
6:FD:151:GLU:H	6:FD:151:GLU:CD	2.04	0.62
6:HD:4:VAL:O	6:HD:7:THR:OG1	2.14	0.62
6:LD:157:ASP:OD1	6:LD:158:TYR:N	2.32	0.62
6:AG:38:LEU:HD13	6:AG:98:VAL:HG23	1.80	0.62
6:GG:33:ARG:HE	6:GG:36:ALA:HB3	1.63	0.62
3:BI:30:ARG:HG3	4:II:14:ASN:HD22	1.64	0.62
6:AJ:137:ARG:HH21	29:AJ:202:PEB:CHB	2.11	0.62
7:RJ:114:LYS:HZ1	7:RJ:177:SER:C	2.06	0.62
6:cJ:54:GLU:CD	6:cJ:137:ARG:NE	2.54	0.62
19:zJ:332:LEU:HD21	20:pP:64:ASP:CA	2.29	0.62
6:QL:81:LYS:HB3	6:QL:84:ARG:HH21	1.63	0.62
6:WL:65:TYR:O	6:WL:68:ASN:ND2	2.32	0.62
6:oL:104:PRO:HG3	7:pL:9:VAL:HG11	1.80	0.62
16:AM:61:ASP:CG	16:AM:146:PRO:CD	2.68	0.62
7:JM:148:GLU:N	7:JM:148:GLU:OE1	2.32	0.62
7:mM:167:SER:O	7:mM:171:ARG:HG3	1.99	0.62
7:DN:67:ILE:HD12	7:DN:74:TYR:HA	1.79	0.62
6:GN:30:ASN:O	6:GN:34:SER:OG	2.16	0.62
6:KN:31:ILE:HA	7:LN:31:ILE:HD12	1.81	0.62
21:QP:75:THR:HA	20:TP:115:MET:CE	2.27	0.62
25:YP:75:ILE:O	25:YP:134:PRO:HD2	1.99	0.62
25:1P:343:PHE:CE1	25:1P:376:LEU:HD21	2.34	0.62
6:GQ:20:SER:OG	6:GQ:21:ASN:N	2.32	0.62
8:eR:57:PHE:CE1	6:OR:112:GLY:CA	2.82	0.62
8:eR:75:MET:CE	29:NR:201:PEB:C4D	2.76	0.62
6:OR:33:ARG:CZ	6:OR:151:GLU:OE2	2.47	0.62
1:X1:116:SER:HB2	29:R1:201:PEB:HBC1	1.81	0.62
6:M2:140:VAL:O	6:M2:144:MET:O	2.17	0.62
6:Q2:92:LEU:HB3	6:Q2:105:LEU:CD2	2.25	0.62
6:W2:31:ILE:HD11	7:X2:38:LEU:HD11	1.82	0.62
10:d4:297:MET:CG	5:FF:18:PHE:HB2	2.29	0.62
6:B4:94:ASN:HD22	7:C4:18:TYR:HD1	1.47	0.62
6:F4:133:TYR:CE2	6:F4:137:ARG:HD3	2.34	0.62
6:H4:157:ASP:HA	6:H4:160:ILE:HD12	1.80	0.62
7:M4:67:ILE:O	7:M4:67:ILE:HG22	1.98	0.62
7:G5:149:ARG:CZ	7:k9:150:LYS:NZ	2.60	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:32:ALA:O	7:I5:33:ASP:CB	2.47	0.62
2:A7:152:CYS:SG	29:A7:304:PEB:HHA1	2.39	0.62
5:J7:35:ASN:O	29:J7:1002:PEB:CMD	2.45	0.62
6:J8:99:VAL:HG23	7:K8:9:VAL:HG21	1.81	0.62
3:B9:224:MET:O	3:B9:228:MET:SD	2.57	0.62
6:U9:67:LYS:HE3	13:kH:258:VAL:O	1.98	0.62
6:BD:65:TYR:O	6:BD:71:GLU:HG3	1.99	0.62
6:JD:25:GLU:OE1	6:LD:33:ARG:CD	2.45	0.62
7:MD:77:ARG:HH21	7:MD:78:ARG:CG	2.12	0.62
7:iF:2:LEU:CD1	7:iF:6:SER:HB2	2.28	0.62
7:BG:141:PHE:CZ	29:BG:203:PEB:HMA3	2.34	0.62
6:KG:33:ARG:HE	6:KG:36:ALA:HB3	1.63	0.62
13:kH:6:TYR:O	13:kH:7:GLU:C	2.42	0.62
7:kI:33:ASP:HB2	7:kI:36:LYS:HD3	1.81	0.62
6:UJ:71:GLU:O	6:UJ:73:GLY:N	2.32	0.62
7:nJ:108:ARG:O	16:xJ:108:ARG:NH2	2.32	0.62
6:sJ:14:ALA:HA	16:xJ:87:THR:CG2	2.29	0.62
6:uJ:14:ALA:O	16:xJ:74:GLN:HG2	1.99	0.62
19:zJ:343:GLN:HE21	20:iP:61:ARG:C	2.06	0.62
5:HK:35:ASN:HD22	29:HK:1002:PEB:C1C	2.13	0.62
6:GL:81:LYS:HB3	6:GL:84:ARG:HH21	1.63	0.62
7:TL:25:GLN:CG	25:1P:521:THR:HG21	2.10	0.62
6:mL:68:ASN:CG	6:mL:71:GLU:OE1	2.42	0.62
6:oL:147:GLN:OE1	29:rL:202:PEB:CMC	2.47	0.62
19:zL:143:LYS:HA	19:zL:147:GLU:HB2	1.81	0.62
7:PM:85:ASP:OD2	7:PM:117:TYR:OH	2.17	0.62
6:AN:57:ASP:N	6:AN:57:ASP:OD1	2.32	0.62
21:DP:14:VAL:HG22	23:WP:133:ILE:HD12	1.81	0.62
21:hP:60:LEU:HD13	21:hP:72:MET:SD	2.39	0.62
20:rP:5:THR:HG23	21:wP:1:MET:SD	2.38	0.62
20:tP:47:ARG:O	20:tP:51:VAL:HG23	1.99	0.62
7:DQ:137:GLN:CD	29:DQ:203:PEB:CHA	2.72	0.62
7:FQ:108:ARG:HH11	14:MQ:203:GLN:HE22	1.46	0.62
7:FQ:134:MET:HE2	7:FQ:137:GLN:HG3	1.80	0.62
7:JQ:108:ARG:HD2	14:MQ:257:THR:HG21	0.65	0.62
6:UR:114:ARG:HG2	6:UR:114:ARG:NH2	2.13	0.62
7:VR:24:LEU:O	7:VR:28:LYS:HG3	1.99	0.62
7:N2:77:ARG:NH1	29:N2:201:PEB:CGB	2.37	0.62
7:R2:87:GLU:HG3	7:R2:88:ILE:N	2.14	0.62
7:T2:61:CYS:SG	29:T2:203:PEB:HMD3	2.39	0.62
6:U2:17:ARG:CZ	6:W2:2:LYS:NZ	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B5:104:VAL:HB	18:MC:265:LYS:CG	2.28	0.62
7:I5:14:ALA:HB1	21:LP:124:GLY:N	2.14	0.62
4:E7:122:PHE:CD2	31:E7:1001:CYC:CAA	2.83	0.62
5:H7:77:ARG:NH1	31:H7:1001:CYC:O2D	2.24	0.62
7:k7:150:LYS:NZ	7:G8:149:ARG:CZ	2.61	0.62
6:U9:67:LYS:HZ1	13:kH:259:SER:HB3	1.64	0.62
6:U9:69:PRO:HG3	7:TR:123:PRO:HA	1.39	0.62
7:DA:109:CYS:O	7:DA:113:LEU:HD11	1.99	0.62
6:EA:57:ASP:N	6:EA:57:ASP:OD1	2.32	0.62
6:IA:57:ASP:OD1	6:IA:57:ASP:N	2.32	0.62
6:BD:113:ALA:N	7:KD:76:ASN:HD21	1.97	0.62
7:CD:77:ARG:HH21	7:CD:78:ARG:CG	2.12	0.62
6:FD:65:TYR:O	6:FD:71:GLU:HG3	1.99	0.62
6:JD:157:ASP:OD1	6:JD:158:TYR:N	2.32	0.62
29:KD:202:PEB:HBD1	6:LD:33:ARG:NH2	2.11	0.62
6:fF:99:VAL:HG23	7:gF:9:VAL:HG21	1.81	0.62
29:FG:201:PEB:CHB	14:MG:174:ARG:NH1	2.62	0.62
7:HG:107:ASP:C	14:MG:298:ARG:HH21	2.06	0.62
6:KJ:73:GLY:CA	6:KJ:78:LYS:HB3	2.28	0.62
6:oJ:68:ASN:CG	6:oJ:71:GLU:OE1	2.42	0.62
4:EK:13:ASP:OD1	5:FK:92:TYR:OH	2.10	0.62
6:bK:135:ARG:HD2	6:bK:157:ASP:OD2	1.99	0.62
6:SL:33:ARG:HD2	6:SL:151:GLU:CD	2.22	0.62
6:sL:6:THR:O	16:xL:81:VAL:HG12	2.00	0.62
6:QM:9:VAL:HG13	7:RM:95:TYR:CD1	2.34	0.62
7:RM:148:GLU:CB	29:RM:203:PEB:OA	2.47	0.62
6:fM:121:ASN:O	6:fM:121:ASN:OD1	2.17	0.62
6:EN:57:ASP:N	6:EN:57:ASP:OD1	2.32	0.62
20:AP:47:ARG:O	20:AP:51:VAL:HG23	1.99	0.62
20:TP:114:GLU:OE2	25:YP:736:SER:HB2	1.98	0.62
20:eP:47:ARG:O	20:eP:51:VAL:HG23	1.99	0.62
21:fP:13:ASP:HB2	20:gP:94:TYR:CE2	2.35	0.62
8:eR:57:PHE:CB	7:TR:84:ARG:HD3	2.29	0.62
6:MR:139:CYS:HB3	29:MR:202:PEB:HHA1	1.79	0.62
6:QR:139:CYS:HB3	6:QR:142:ARG:HG2	1.81	0.62
6:SR:65:TYR:OH	6:SR:66:LEU:HD21	1.99	0.62
6:WR:142:ARG:NE	29:WR:202:PEB:HHA1	2.14	0.62
5:F1:36:GLN:C	5:F1:39:ASP:OD1	2.43	0.62
6:I3:140:VAL:HG11	6:I3:146:ALA:CB	2.29	0.62
10:d4:86:ALA:HA	29:I4:201:PEB:O1C	1.99	0.62
7:A5:161:LEU:HD11	29:A5:202:PEB:CBA	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K9:49:GLN:HE22	3:BI:225:VAL:HA	1.65	0.62
6:W9:99:VAL:HG23	7:Y9:9:VAL:HG21	1.80	0.62
7:FB:50:CYS:O	7:FB:54:ASP:HB2	2.00	0.62
18:MC:217:SER:CA	18:MC:223:ARG:HB3	2.29	0.62
7:CD:82:CYS:HA	29:CD:201:PEB:CHA	2.30	0.62
6:HD:151:GLU:H	6:HD:151:GLU:CD	2.04	0.62
6:LD:18:PHE:CZ	7:MD:91:ARG:HG3	2.34	0.62
6:IE:14:ALA:CB	18:ME:51:PRO:CG	2.77	0.62
7:FG:43:SER:HA	7:FG:46:SER:HB3	1.79	0.62
7:HG:47:ASN:HD22	29:HG:203:PEB:CMA	2.13	0.62
7:HG:120:LEU:HD21	14:MG:288:GLY:HA2	1.81	0.62
7:LG:113:LEU:HD13	14:MG:236:TYR:OH	1.99	0.62
1:XI:94:TYR:CD2	29:TI:201:PEB:O1C	2.53	0.62
6:fl:99:VAL:HG23	7:gl:9:VAL:HG21	1.81	0.62
7:il:16:ALA:HB2	7:ml:69:PRO:HG3	1.82	0.62
6:IJ:75:ASN:ND2	6:IJ:75:ASN:H	1.97	0.62
16:xJ:40:VAL:HG12	16:xJ:41:ASN:N	2.14	0.62
19:zJ:366:ARG:NH2	21:nP:61:LEU:HD23	2.14	0.62
2:AK:103:CYS:SG	30:AK:305:PUB:HAA1	2.39	0.62
5:FK:36:GLN:C	5:FK:39:ASP:OD1	2.43	0.62
6:hK:33:ARG:CD	6:hK:151:GLU:OE2	2.47	0.62
6:CL:81:LYS:HB3	6:CL:84:ARG:HH21	1.63	0.62
6:GM:152:PHE:CE2	6:GM:156:LEU:CD1	2.77	0.62
21:HP:14:VAL:CG2	23:WP:72:ASN:HA	2.29	0.62
21:HP:14:VAL:HG22	23:WP:72:ASN:HA	1.81	0.62
21:IP:18:TYR:CD2	20:JP:44:THR:HG23	2.35	0.62
20:PP:155:TYR:CE1	26:ZP:138:LEU:HD11	2.35	0.62
20:mP:25:ARG:NH2	25:1P:45:SER:HB2	2.14	0.62
6:AQ:28:GLN:NE2	6:AQ:32:GLN:OE1	2.33	0.62
6:AQ:33:ARG:HE	6:AQ:36:ALA:HB3	1.63	0.62
7:FQ:120:LEU:CD2	14:MQ:174:ARG:HG3	2.30	0.62
6:IQ:28:GLN:NE2	6:IQ:32:GLN:OE1	2.33	0.62
6:WR:31:ILE:HD11	7:XR:38:LEU:HD11	1.82	0.62
1:X1:360:LYS:HE3	4:C1:13:ASP:OD2	2.00	0.62
6:h1:135:ARG:HD2	6:h1:157:ASP:OD2	1.99	0.62
8:e2:108:HIS:CD2	7:P2:84:ARG:NH1	2.68	0.62
6:M2:65:TYR:OH	6:M2:66:LEU:HD21	1.98	0.62
7:R2:61:CYS:SG	29:R2:203:PEB:HMD3	2.39	0.62
6:S2:142:ARG:HH22	29:S2:202:PEB:CHA	2.13	0.62
6:W2:92:LEU:HB3	6:W2:105:LEU:CD2	2.25	0.62
6:H4:53:LYS:HE2	6:H4:53:LYS:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:113:ALA:N	7:M4:76:ASN:HD21	1.96	0.62
7:K4:82:CYS:HA	29:K4:201:PEB:CHA	2.30	0.62
5:D7:35:ASN:O	29:D7:1002:PEB:CMD	2.45	0.62
5:H7:66:LEU:C	5:H7:73:ALA:HB3	2.24	0.62
12:E8:72:MET:HB3	5:HF:151:GLY:O	2.00	0.62
12:E8:186:PRO:HD3	6:bF:57:ASP:HB3	1.81	0.62
4:E9:86:ARG:O	8:eR:297:GLY:HA2	1.99	0.62
6:AA:30:ASN:O	6:AA:34:SER:OG	2.15	0.62
10:dD:88:VAL:C	10:dD:89:MET:HE2	2.25	0.62
6:BD:90:MET:N	6:BD:90:MET:HE3	2.15	0.62
7:DE:84:ARG:NH2	18:ME:42:SER:O	2.33	0.62
7:YF:107:ASP:OD1	7:YF:107:ASP:N	2.27	0.62
7:iF:33:ASP:HB2	7:iF:36:LYS:HD3	1.81	0.62
7:kF:33:ASP:HB2	7:kF:36:LYS:HD3	1.81	0.62
6:AG:28:GLN:NE2	6:AG:32:GLN:OE1	2.33	0.62
6:KG:20:SER:OG	6:KG:21:ASN:N	2.32	0.62
6:EJ:68:ASN:CG	6:EJ:71:GLU:OE1	2.41	0.62
6:EJ:81:LYS:HB3	6:EJ:84:ARG:HH21	1.63	0.62
6:UJ:33:ARG:HE	6:WJ:25:GLU:HG2	1.64	0.62
6:kJ:68:ASN:CG	6:kJ:71:GLU:OE1	2.42	0.62
1:XK:116:SER:HB2	29:RK:201:PEB:HBC1	1.81	0.62
6:bK:21:ASN:HD21	6:dK:151:GLU:HG2	1.65	0.62
7:HL:72:MEN:HE22	7:HL:122:VAL:CG2	2.30	0.62
6:ML:68:ASN:CG	6:ML:71:GLU:OE1	2.41	0.62
6:SL:67:LYS:HZ1	26:ZP:121:VAL:CG1	2.12	0.62
6:YL:68:ASN:CG	6:YL:71:GLU:OE1	2.42	0.62
6:gL:68:ASN:CG	6:gL:71:GLU:OE1	2.42	0.62
7:cM:50:CYS:O	7:cM:54:ASP:HB2	2.00	0.62
7:gM:50:CYS:O	7:gM:54:ASP:HB2	2.00	0.62
6:jM:147:GLN:HE21	29:mM:202:PEB:HMC1	1.64	0.62
6:IN:57:ASP:N	6:IN:57:ASP:OD1	2.32	0.62
6:KN:57:ASP:N	6:KN:57:ASP:OD1	2.32	0.62
25:YP:514:ILE:HG22	25:YP:514:ILE:O	2.00	0.62
20:eP:107:ILE:HD11	23:yP:173:LEU:HD12	1.82	0.62
21:kP:110:ASN:ND2	25:1P:422:LYS:HB3	2.10	0.62
20:rP:47:ARG:O	20:rP:51:VAL:HG23	1.99	0.62
31:wP:1001:CYC:O2D	25:1P:697:GLY:HA2	1.99	0.62
26:2P:145:GLY:HA3	26:2P:156:ARG:HD3	1.81	0.62
7:HQ:141:PHE:CE2	29:HQ:203:PEB:CMB	2.82	0.62
8:e2:289:PRO:HB3	7:a7:147:THR:HG21	1.82	0.62
6:M2:17:ARG:NH2	6:O2:2:LYS:HZ2	1.92	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S2:140:VAL:CG1	6:S2:146:ALA:HA	2.29	0.62
7:C4:33:ASP:OD1	7:C4:33:ASP:N	2.24	0.62
7:E4:54:ASP:OD2	29:E4:203:PEB:HHA1	2.00	0.62
6:H4:90:MET:N	6:H4:90:MET:HE3	2.15	0.62
7:I5:28:LYS:HD3	19:zL:291:ILE:HG12	1.79	0.62
13:k6:192:VAL:CB	4:I7:134:GLN:HE21	2.11	0.62
5:D7:74:TYR:HH	4:G7:93:ARG:HH22	1.43	0.62
7:A8:67:ILE:O	7:A8:74:TYR:CD1	2.53	0.62
3:B9:60:ILE:HG22	3:B9:60:ILE:O	2.00	0.62
3:B9:186:ILE:HA	3:B9:189:ARG:HD2	1.81	0.62
4:I9:134:GLN:HE21	13:kH:192:VAL:CB	2.11	0.62
6:CA:57:ASP:N	6:CA:57:ASP:OD1	2.32	0.62
6:IA:37:ARG:HD2	6:IA:97:LEU:O	1.99	0.62
6:GB:159:LEU:HD12	6:GB:159:LEU:C	2.25	0.62
7:JB:50:CYS:O	7:JB:54:ASP:HB2	2.00	0.62
7:XB:50:CYS:O	7:XB:54:ASP:HB2	2.00	0.62
7:ZB:50:CYS:O	7:ZB:54:ASP:HB2	2.00	0.62
7:kB:50:CYS:O	7:kB:54:ASP:HB2	2.00	0.62
6:BD:157:ASP:OD1	6:BD:158:TYR:N	2.32	0.62
6:JD:90:MET:N	6:JD:90:MET:HE3	2.15	0.62
7:KD:91:ARG:O	7:KD:94:SER:OG	2.10	0.62
4:EF:33:ARG:HH12	29:LF:1002:PEB:HBD1	0.48	0.62
5:JF:155:SER:HB2	27:3P:83:ARG:HD2	1.82	0.62
7:BG:136:ALA:CB	29:BG:203:PEB:O2C	2.48	0.62
7:FG:108:ARG:C	14:MG:184:ARG:HH21	2.07	0.62
3:BI:226:GLN:H	3:BI:226:GLN:NE2	1.96	0.62
7:nJ:1:MET:CG	16:xJ:194:VAL:HG21	2.22	0.62
6:sJ:10:SER:O	16:xJ:82:TYR:HB2	1.98	0.62
19:zJ:316:PHE:HE2	20:pP:83:ARG:HH11	1.48	0.62
6:IL:75:ASN:ND2	6:IL:75:ASN:H	1.97	0.62
6:IL:81:LYS:HB3	6:IL:84:ARG:HH21	1.63	0.62
6:kL:81:LYS:HB3	6:kL:84:ARG:HH21	1.63	0.62
6:GM:159:LEU:HD12	6:GM:159:LEU:C	2.25	0.62
7:DN:109:CYS:O	7:DN:113:LEU:HD11	1.99	0.62
7:BO:120:LEU:CD1	29:BO:201:PEB:HBB1	2.29	0.62
6:EO:38:LEU:HD13	7:FO:24:LEU:HD22	1.80	0.62
21:OP:68:PRO:HD3	22:VP:87:TRP:CZ2	2.34	0.62
20:mP:47:ARG:O	20:mP:51:VAL:HG23	1.99	0.62
7:HQ:134:MET:HE2	7:HQ:137:GLN:HG3	1.80	0.62
14:MQ:228:GLN:O	14:MQ:294:ARG:NH2	2.32	0.62
8:eR:222:GLU:CD	7:TR:112:GLY:HA3	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:225:VAL:HG12	20:AP:82:LEU:HD12	1.81	0.62
4:G1:65:TYR:HA	4:G1:68:GLN:HG2	1.82	0.62
6:U2:114:ARG:C	6:U2:118:ARG:HH21	2.07	0.62
10:d4:88:VAL:C	10:d4:89:MET:HE2	2.25	0.62
7:G4:82:CYS:HA	29:G4:201:PEB:CHA	2.30	0.62
7:I4:82:CYS:HA	29:I4:201:PEB:CHA	2.30	0.62
6:L4:90:MET:N	6:L4:90:MET:HE3	2.15	0.62
7:Y7:39:ASP:OD1	7:Y7:153:PHE:HE1	1.82	0.62
12:E8:209:ARG:HD3	6:IF:70:GLY:HA2	1.80	0.62
5:D9:74:TYR:HH	4:G9:93:ARG:HH22	1.47	0.62
5:F9:17:GLU:OE1	8:eR:290:ARG:NH1	2.32	0.62
7:i9:52:VAL:HG11	7:i9:87:GLU:CG	2.29	0.62
6:KA:95:TYR:CG	7:LA:13:ASP:OD1	2.53	0.62
6:BD:29:GLY:CA	6:BD:32:GLN:NE2	2.62	0.62
6:FD:90:MET:N	6:FD:90:MET:HE3	2.15	0.62
6:FD:133:TYR:CE2	6:FD:137:ARG:HD3	2.34	0.62
7:GD:65:GLY:O	7:GD:68:SER:OG	2.15	0.62
7:GD:82:CYS:HA	29:GD:201:PEB:CHA	2.30	0.62
18:ME:196:ASP:O	18:ME:237:PHE:CZ	2.52	0.62
3:BF:204:ARG:HH22	21:uP:57:ALA:HB1	1.64	0.62
7:mF:127:SER:O	7:mF:131:VAL:HG23	2.00	0.62
29:FG:201:PEB:CHB	14:MG:174:ARG:CZ	2.77	0.62
3:BI:227:GLU:HB2	20:vP:56:GLN:CD	2.25	0.62
29:HI:1002:PEB:HMC2	4:II:145:GLN:HE21	1.63	0.62
7:RI:127:SER:O	7:RI:131:VAL:HG23	2.00	0.62
6:oJ:104:PRO:HG3	7:pJ:9:VAL:HG11	1.80	0.62
19:zJ:363:ARG:HG2	21:mP:67:ARG:NH1	2.14	0.62
4:CK:111:LEU:HD12	31:CK:1001:CYC:HAB2	1.82	0.62
7:PL:113:LEU:HD23	7:PL:176:ILE:HG22	1.82	0.62
6:qL:99:VAL:HG13	7:rL:9:VAL:HG21	1.81	0.62
15:bM:335:ILE:HG22	15:bM:340:GLU:HB3	1.81	0.62
7:NM:50:CYS:O	7:NM:54:ASP:HB2	2.00	0.62
6:CN:28:GLN:O	6:CN:32:GLN:NE2	2.29	0.62
6:EO:13:ASP:OD2	7:FO:108:ARG:NH1	2.33	0.62
7:JO:115:GLU:OE2	9:OO:252:ARG:NH1	2.32	0.62
20:KP:47:ARG:O	20:KP:51:VAL:HG23	1.99	0.62
20:PP:44:THR:HG23	21:UP:18:TYR:CD2	2.34	0.62
6:GQ:88:HIS:HA	6:GQ:91:ARG:HE	1.65	0.62
6:IQ:88:HIS:HA	6:IQ:91:ARG:HE	1.65	0.62
6:SR:142:ARG:CG	6:SR:143:ASP:N	2.63	0.62
6:F4:81:LYS:HZ1	29:F4:201:PEB:C1C	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:7:ARG:HA	28:bP:132:PRO:HA	1.82	0.62
13:k6:6:TYR:O	13:k6:7:GLU:C	2.42	0.62
13:k6:221:TYR:OH	5:H7:61:ALA:HB2	2.00	0.62
4:K7:54:GLY:HA2	5:JF:150:ILE:HG21	1.82	0.62
6:f7:18:PHE:HD2	7:g7:45:VAL:HG22	1.65	0.62
7:k7:52:VAL:HG11	7:k7:87:GLU:CG	2.29	0.62
7:m7:173:GLY:O	7:m7:177:SER:OG	2.08	0.62
4:E9:122:PHE:CD2	31:E9:1001:CYC:CAA	2.83	0.62
5:H9:61:ALA:HB2	13:kH:221:TYR:OH	2.00	0.62
7:a9:147:THR:HG21	8:eR:287:ALA:HB1	1.65	0.62
6:AC:17:ARG:NH2	6:CC:158:TYR:OH	2.33	0.62
10:dD:283:ARG:CG	7:TI:148:GLU:CG	2.78	0.62
7:MD:82:CYS:HA	29:MD:201:PEB:CHA	2.30	0.62
18:ME:217:SER:CA	18:ME:223:ARG:HB3	2.29	0.62
4:EF:2:LYS:HG2	4:KF:22:THR:HG21	1.81	0.62
7:iF:16:ALA:HB2	7:mF:69:PRO:HG3	1.82	0.62
6:GG:20:SER:OG	6:GG:21:ASN:N	2.32	0.62
14:MG:243:MET:O	14:MG:247:LYS:NZ	2.30	0.62
4:MI:108:ASP:HA	4:MI:112:VAL:HG22	1.81	0.62
6:OJ:81:LYS:HB3	6:OJ:84:ARG:HH21	1.63	0.62
29:nJ:201:PEB:HBC2	16:xJ:103:LEU:CB	2.18	0.62
6:sJ:6:THR:HB	16:xJ:81:VAL:HG12	1.80	0.62
15:bM:31:VAL:HA	6:MM:118:ARG:NH2	2.14	0.62
7:LM:50:CYS:O	7:LM:54:ASP:HB2	2.00	0.62
6:lM:57:ASP:O	6:lM:58:ALA:C	2.43	0.62
25:YP:273:GLU:OE1	25:YP:273:GLU:N	2.31	0.62
21:nP:71:MEN:HE21	24:zP:126:MET:HG2	1.81	0.62
21:qP:83:ARG:CZ	24:zP:87:LEU:HD21	2.29	0.62
20:rP:110:VAL:O	21:uP:75:THR:OG1	2.11	0.62
25:1P:273:GLU:OE1	25:1P:273:GLU:N	2.31	0.62
25:1P:454:PHE:HB3	25:1P:536:GLY:HA3	1.80	0.62
6:OR:115:GLU:N	6:OR:118:ARG:NH2	2.40	0.62
7:RR:61:CYS:SG	29:RR:203:PEB:HMD3	2.39	0.62
8:e2:56:ALA:N	8:e2:217:GLU:HB2	2.15	0.62
6:M2:142:ARG:HH12	29:M2:202:PEB:C1B	1.85	0.62
6:U2:47:ASN:ND2	29:U2:202:PEB:OD	2.32	0.62
6:E3:13:ASP:OD2	7:F3:108:ARG:NH1	2.33	0.62
6:E3:38:LEU:HD13	7:F3:24:LEU:HD22	1.80	0.62
7:L3:164:GLU:CD	7:K5:79:MET:HE2	2.19	0.62
6:D4:157:ASP:OD1	6:D4:158:TYR:N	2.32	0.62
6:F4:29:GLY:CA	6:F4:32:GLN:HE22	2.04	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J4:90:MET:N	6:J4:90:MET:HE3	2.15	0.62
7:K4:150:LYS:HA	7:K4:150:LYS:HE3	1.82	0.62
6:L4:81:LYS:HZ1	29:L4:201:PEB:C1C	2.12	0.62
7:M4:82:CYS:HA	29:M4:201:PEB:CHA	2.30	0.62
2:A7:41:SER:HB2	29:Y7:201:PEB:HBD1	1.82	0.62
7:K8:79:MET:HE1	7:LO:164:GLU:CD	2.25	0.62
7:C8:161:LEU:CD1	29:C8:202:PEB:CBA	2.78	0.62
12:E8:162:ASN:HB3	29:kF:203:PEB:C1C	2.30	0.62
3:B9:227:GLU:CB	20:PP:52:LYS:HE2	2.30	0.62
4:K9:50:ARG:NH1	3:BI:228:MET:CA	2.63	0.62
16:AB:61:ASP:CG	16:AB:146:PRO:CD	2.68	0.62
6:IB:28:GLN:NE2	7:JB:35:ASN:OD1	2.31	0.62
6:hB:147:GLN:OE1	6:hB:147:GLN:N	2.23	0.62
7:mB:50:CYS:O	7:mB:54:ASP:HB2	2.00	0.62
18:ME:281:VAL:HG11	4:CI:85:ALA:O	2.00	0.62
29:DF:1002:PEB:HMC2	4:MF:145:GLN:NE2	2.15	0.62
5:JF:111:ASN:ND2	27:3P:124:TRP:CZ3	2.68	0.62
7:RF:127:SER:O	7:RF:131:VAL:HG23	2.00	0.62
7:BG:61:CYS:SG	29:BG:203:PEB:HAD1	2.38	0.62
7:FG:141:PHE:HE2	29:FG:203:PEB:CHA	2.12	0.62
29:FG:201:PEB:HHB1	14:MG:174:ARG:NH1	2.14	0.62
6:IG:20:SER:OG	6:IG:21:ASN:N	2.32	0.62
6:KG:28:GLN:NE2	6:KG:32:GLN:OE1	2.33	0.62
7:JJ:35:ASN:ND2	29:JJ:202:PEB:O1C	2.32	0.62
6:MJ:33:ARG:NH1	6:MJ:147:GLN:HE21	1.91	0.62
6:WJ:72:ALA:CB	29:WJ:202:PEB:HMA3	2.27	0.62
6:sJ:33:ARG:HE	6:uJ:25:GLU:HA	1.65	0.62
6:IL:138:LEU:HD22	6:IL:152:PHE:CD2	2.33	0.62
6:KL:47:ASN:HD21	29:KL:202:PEB:HMC1	1.65	0.62
7:NL:114:LYS:CG	7:NL:176:ILE:C	2.73	0.62
6:SL:74:GLU:H	6:SL:78:LYS:HG3	1.65	0.62
6:UL:33:ARG:HE	6:WL:25:GLU:HG2	1.64	0.62
7:JM:50:CYS:O	7:JM:54:ASP:HB2	2.00	0.62
7:XM:50:CYS:O	7:XM:54:ASP:HB2	2.00	0.62
7:ZM:50:CYS:O	7:ZM:54:ASP:HB2	2.00	0.62
6:IM:79:ILE:HD12	6:OR:142:ARG:HA	1.81	0.62
20:EP:105:GLU:HA	20:EP:109:LEU:HB2	1.82	0.62
21:QP:64:ASP:OD2	27:3P:48:THR:HG23	2.00	0.62
21:oP:72:MET:HA	21:oP:77:ARG:CB	2.29	0.62
21:sP:27:LEU:CD1	20:tP:97:ILE:HG21	2.29	0.62
26:2P:121:VAL:O	26:2P:125:ASP:OD2	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AQ:17:ARG:NH2	6:CQ:102:THR:OG1	2.33	0.62
6:EQ:28:GLN:NE2	6:EQ:32:GLN:OE1	2.33	0.62
7:HQ:145:THR:O	29:HQ:203:PEB:HBB2	2.00	0.62
6:KQ:5:ILE:HG21	7:LQ:99:ALA:HA	1.81	0.62
14:MQ:264:VAL:H	14:MQ:267:MET:HB2	1.64	0.62
6:MR:44:LEU:CA	29:MR:202:PEB:HBD2	2.30	0.62
7:XR:61:CYS:SG	29:XR:203:PEB:HMD3	2.39	0.62
4:G1:21:ASN:N	4:G1:21:ASN:OD1	2.31	0.61
6:b1:21:ASN:HD21	6:d1:151:GLU:HG2	1.65	0.61
8:e2:278:LEU:CD2	6:W7:62:LYS:CE	2.54	0.61
29:e2:401:PEB:CMA	7:P2:59:MET:CE	2.76	0.61
6:M2:91:ARG:NH2	7:V2:74:TYR:OH	2.31	0.61
6:W2:142:ARG:HD3	29:W2:202:PEB:CAA	2.28	0.61
6:F4:16:GLY:HA2	7:G4:91:ARG:HH12	1.65	0.61
3:B7:60:ILE:HG22	3:B7:60:ILE:O	2.00	0.61
7:I8:158:CYS:SG	29:I8:202:PEB:HBA1	2.37	0.61
7:V9:139:VAL:HG11	13:kH:161:ILE:CD1	2.30	0.61
7:k9:39:ASP:OD1	7:k9:153:PHE:HE1	1.82	0.61
7:FA:24:LEU:HD23	7:FA:27:LEU:HD13	1.80	0.61
6:KA:57:ASP:N	6:KA:57:ASP:OD1	2.32	0.61
6:GB:137:ARG:HH12	29:GB:202:PEB:C4B	2.13	0.61
6:UB:53:LYS:CG	14:MG:100:THR:HB	2.23	0.61
7:eB:50:CYS:O	7:eB:54:ASP:HB2	2.00	0.61
18:MC:45:PHE:CE2	18:MC:248:PRO:CB	2.78	0.61
7:GD:76:ASN:CG	6:JD:113:ALA:HA	2.25	0.61
7:MD:123:PRO:HA	6:UI:69:PRO:CD	2.30	0.61
18:ME:233:ALA:CB	18:ME:236:ASP:OD2	2.48	0.61
29:DF:1002:PEB:HMC2	4:MF:145:GLN:HE21	1.65	0.61
4:GF:104:THR:HG23	4:GF:107:MET:CG	2.26	0.61
5:LF:68:GLN:NE2	27:3P:110:SER:CA	2.63	0.61
4:MF:108:ASP:HA	4:MF:112:VAL:HG22	1.81	0.61
7:cF:1:MET:HG3	7:cF:104:VAL:HG23	0.73	0.61
6:KG:5:ILE:HG21	7:LG:99:ALA:HA	1.81	0.61
5:JI:65:GLN:HG3	20:PP:68:PRO:CB	2.24	0.61
6:GJ:95:TYR:O	6:GJ:99:VAL:CG2	2.47	0.61
6:aJ:81:LYS:HB3	6:aJ:84:ARG:HH21	1.63	0.61
6:iJ:81:LYS:HB3	6:iJ:84:ARG:HH21	1.63	0.61
7:nJ:88:ILE:HD13	16:xJ:203:VAL:HB	1.81	0.61
16:wJ:39:LEU:HD21	17:yJ:200:PHE:CD1	2.35	0.61
19:zJ:343:GLN:NE2	20:iP:61:ARG:CB	2.63	0.61
3:BK:224:MET:O	3:BK:227:GLU:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JK:11:GLN:HG2	15:bM:333:ARG:NE	2.15	0.61
7:JL:5:PHE:HE2	7:JL:31:ILE:CD1	2.12	0.61
7:RL:113:LEU:HD23	7:RL:176:ILE:HG22	1.74	0.61
15:bM:125:THR:OG1	15:bM:129:ARG:NH1	2.33	0.61
6:UM:135:ARG:HD2	6:UM:157:ASP:OD1	1.99	0.61
7:gM:61:CYS:HB2	29:gM:203:PEB:HBD2	1.73	0.61
6:IM:67:LYS:NZ	6:OR:141:PRO:HA	2.15	0.61
7:DN:76:ASN:HD22	6:KN:109:GLY:C	2.07	0.61
6:KO:53:LYS:HA	6:KO:53:LYS:CE	2.21	0.61
20:NP:105:GLU:HA	20:NP:109:LEU:HB2	1.82	0.61
21:OP:10:ASN:ND2	28:bP:52:SER:HB3	2.15	0.61
23:WP:137:GLN:O	23:WP:141:GLU:HG3	2.00	0.61
22:xP:153:TYR:O	22:xP:157:ILE:HG12	2.00	0.61
6:AQ:20:SER:OG	6:AQ:21:ASN:N	2.32	0.61
6:EQ:88:HIS:HA	6:EQ:91:ARG:HE	1.65	0.61
8:eR:252:ALA:HB3	7:XR:119:ALA:HB1	1.80	0.61
6:MR:118:ARG:HD3	6:WR:114:ARG:HH22	1.63	0.61
6:QR:39:GLU:OE2	6:QR:144:MET:HB3	2.00	0.61
7:TR:61:CYS:SG	29:TR:203:PEB:HMD3	2.39	0.61
3:B1:20:PHE:CD1	4:K1:117:GLU:OE2	2.53	0.61
5:F1:39:ASP:OD2	29:F1:1002:PEB:CHA	2.40	0.61
6:b1:135:ARG:HD2	6:b1:157:ASP:OD2	1.99	0.61
7:g1:101:ASP:CA	14:MA:98:LEU:CD2	2.42	0.61
6:W2:47:ASN:HD21	29:W2:202:PEB:CMC	2.13	0.61
6:A3:69:PRO:CG	27:aP:158:GLY:HA3	2.30	0.61
6:A3:95:TYR:O	6:A3:99:VAL:HG23	2.00	0.61
7:D3:39:ASP:CG	29:D3:202:PEB:CMD	2.73	0.61
6:H4:157:ASP:OD1	6:H4:158:TYR:N	2.32	0.61
6:J4:157:ASP:HA	6:J4:160:ILE:HD12	1.80	0.61
4:E7:122:PHE:CE2	31:E7:1001:CYC:HAA2	2.32	0.61
7:B8:108:ARG:CG	18:ME:266:GLY:CA	2.62	0.61
6:AA:57:ASP:N	6:AA:57:ASP:OD1	2.32	0.61
6:IA:17:ARG:NH2	6:IA:18:PHE:O	2.34	0.61
15:bB:125:THR:OG1	15:bB:129:ARG:NH1	2.33	0.61
7:NB:50:CYS:O	7:NB:54:ASP:HB2	2.00	0.61
7:RB:57:SER:C	7:RB:61:CYS:SG	2.72	0.61
7:RB:148:GLU:CB	29:RB:203:PEB:OA	2.47	0.61
7:VB:50:CYS:O	7:VB:54:ASP:HB2	2.00	0.61
7:BC:51:MET:HE1	7:BC:137:GLN:CG	2.29	0.61
10:dD:68:LEU:HA	10:dD:71:ARG:HD2	1.82	0.61
7:GD:173:GLY:O	7:GD:177:SER:OG	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:KD:82:CYS:HA	29:KD:201:PEB:CHA	2.30	0.61
18:ME:61:VAL:HG23	18:ME:61:VAL:O	2.00	0.61
5:JF:111:ASN:ND2	27:3P:124:TRP:HZ3	1.97	0.61
6:EG:28:GLN:NE2	6:EG:32:GLN:OE1	2.33	0.61
13:kH:285:PRO:O	13:kH:286:MET:O	2.18	0.61
3:BI:30:ARG:HD2	4:GI:14:ASN:HD22	1.65	0.61
7:LJ:26:ALA:C	28:4P:228:ILE:HG23	2.24	0.61
6:SJ:67:LYS:HZ1	26:2P:121:VAL:CG1	2.09	0.61
6:SJ:74:GLU:H	6:SJ:78:LYS:HG3	1.65	0.61
2:AK:105:GLU:OE1	30:AK:305:PUB:NC	2.32	0.61
4:CK:27:VAL:HG11	5:DK:98:ILE:HD11	1.82	0.61
5:HK:145:THR:HG23	29:HK:1002:PEB:HMA2	1.82	0.61
4:MK:107:MET:O	4:MK:112:VAL:HG23	1.99	0.61
7:NL:5:PHE:CZ	7:NL:31:ILE:HD11	2.35	0.61
6:oL:147:GLN:OE1	29:rL:202:PEB:HMC1	2.00	0.61
16:wL:176:TYR:HD1	16:xL:39:LEU:HD13	0.53	0.61
16:xL:40:VAL:HG12	16:xL:41:ASN:N	2.14	0.61
17:yL:189:ARG:NH2	29:yL:301:PEB:O2C	2.33	0.61
7:FM:50:CYS:O	7:FM:54:ASP:HB2	2.00	0.61
7:HM:50:CYS:O	7:HM:54:ASP:HB2	2.00	0.61
7:LM:85:ASP:OD2	7:LM:117:TYR:OH	2.17	0.61
7:PM:50:CYS:O	7:PM:54:ASP:HB2	2.00	0.61
6:CN:17:ARG:NH2	6:CN:18:PHE:O	2.34	0.61
6:GN:17:ARG:NH2	6:GN:18:PHE:O	2.34	0.61
6:KN:131:ILE:HD12	6:KN:159:LEU:CD2	2.30	0.61
7:LN:109:CYS:O	7:LN:113:LEU:HD11	1.99	0.61
20:PP:47:ARG:O	20:PP:51:VAL:HG23	1.99	0.61
20:TP:47:ARG:O	20:TP:51:VAL:HG23	1.99	0.61
21:dP:91:TYR:CE1	20:eP:12:ASP:OD1	2.53	0.61
21:hP:71:MEN:CG	21:hP:122:PRO:HD3	2.29	0.61
20:mP:105:GLU:HA	20:mP:109:LEU:HB2	1.82	0.61
21:uP:69:GLY:HA2	21:wP:14:VAL:HG23	1.80	0.61
20:vP:32:SER:HB3	27:3P:153:PHE:HA	1.83	0.61
25:1P:166:GLY:O	25:1P:219:TYR:OH	2.17	0.61
6:CQ:88:HIS:HA	6:CQ:91:ARG:HE	1.65	0.61
7:LQ:133:ILE:O	29:LQ:202:PEB:O1C	2.18	0.61
7:PR:84:ARG:CD	7:PR:88:ILE:HD11	2.31	0.61
6:QR:13:ASP:OD2	7:RR:92:TYR:CE1	2.52	0.61
6:WR:37:ARG:NH1	6:WR:97:LEU:O	2.31	0.61
3:B1:59:GLN:HB3	3:B1:64:THR:HG21	1.82	0.61
4:M1:107:MET:O	4:M1:112:VAL:HG23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V2:61:CYS:HB3	29:V2:203:PEB:CBD	2.31	0.61
6:W2:65:TYR:CD1	6:W2:66:LEU:CD1	2.77	0.61
7:M3:87:GLU:O	7:M3:91:ARG:CG	2.48	0.61
10:d4:283:ARG:HB2	7:TF:148:GLU:CD	2.25	0.61
6:H4:34:SER:CB	6:H4:37:ARG:HH21	2.13	0.61
7:I4:150:LYS:HA	7:I4:150:LYS:HE3	1.82	0.61
2:A7:205:ARG:HH12	2:A7:285:SER:HA	1.64	0.61
3:B7:6:LEU:HD22	31:L7:1001:CYC:HBA2	1.82	0.61
3:B7:227:GLU:HG2	20:rP:52:LYS:NZ	2.16	0.61
4:C7:57:GLN:HE22	4:GF:61:ASN:ND2	1.97	0.61
7:I8:45:VAL:CG1	28:4P:118:LEU:O	2.48	0.61
7:L8:76:ASN:HD21	6:OR:75:ASN:HA	1.65	0.61
5:L9:30:MET:HE1	27:3P:237:ALA:HB3	1.71	0.61
6:W9:62:LYS:HE3	8:eR:278:LEU:HD23	1.82	0.61
7:DB:50:CYS:O	7:DB:54:ASP:HB2	2.00	0.61
7:HB:50:CYS:O	7:HB:54:ASP:HB2	2.00	0.61
7:RB:50:CYS:O	7:RB:54:ASP:HB2	2.00	0.61
6:YB:9:VAL:HG13	7:ZB:95:TYR:CD1	2.36	0.61
18:MC:234:GLU:H	18:MC:234:GLU:CD	2.05	0.61
10:dD:283:ARG:HG2	7:TI:148:GLU:CB	2.17	0.61
7:GD:58:GLY:HA2	29:GD:203:PEB:CMD	2.30	0.61
7:ID:82:CYS:HA	29:ID:201:PEB:CHA	2.30	0.61
5:JI:15:ARG:NH2	27:aP:94:PHE:CD1	2.68	0.61
7:HJ:105:LEU:O	7:HJ:105:LEU:HD23	2.01	0.61
6:WJ:65:TYR:O	6:WJ:68:ASN:ND2	2.32	0.61
1:XK:360:LYS:HE3	4:CK:13:ASP:OD2	2.00	0.61
3:BK:59:GLN:HB3	3:BK:64:THR:HG21	1.82	0.61
5:NK:12:ALA:HB2	5:NK:19:LEU:CD2	2.30	0.61
7:FL:159:THR:CG2	25:1P:513:GLY:O	2.49	0.61
6:oL:17:ARG:C	7:pL:91:ARG:HD2	2.26	0.61
6:sL:33:ARG:HE	6:uL:25:GLU:HA	1.65	0.61
16:wL:176:TYR:CG	16:xL:39:LEU:HD13	2.22	0.61
16:wL:183:LYS:HE3	16:xL:41:ASN:HD22	1.64	0.61
16:wL:183:LYS:CG	16:xL:40:VAL:HG21	2.29	0.61
7:DM:50:CYS:O	7:DM:54:ASP:HB2	2.00	0.61
7:HN:37:ARG:NH1	7:HN:97:LEU:O	2.34	0.61
7:MO:87:GLU:O	7:MO:91:ARG:CG	2.48	0.61
21:FP:110:ASN:ND2	25:YP:654:ARG:HG3	2.15	0.61
20:EP:14:GLU:CG	25:YP:509:PHE:CE1	2.68	0.61
20:JP:105:GLU:HA	20:JP:109:LEU:HB2	1.83	0.61
27:aP:264:LYS:HG2	27:aP:264:LYS:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:cP:47:ARG:O	20:cP:51:VAL:HG23	1.99	0.61
20:IP:47:ARG:O	20:IP:51:VAL:HG23	1.99	0.61
20:vP:29:PHE:HB2	27:3P:156:PHE:CE1	2.35	0.61
20:vP:47:ARG:O	20:vP:51:VAL:HG23	1.99	0.61
25:1P:249:LEU:HB2	25:1P:401:PRO:HB3	1.82	0.61
6:KQ:28:GLN:NE2	6:KQ:32:GLN:OE1	2.33	0.61
6:SR:91:ARG:HH12	7:TR:16:ALA:HA	1.63	0.61
7:VR:47:ASN:O	7:VR:51:MET:HG3	2.01	0.61
4:E1:140:HIS:H	4:E1:140:HIS:HD2	1.43	0.61
5:L1:68:GLN:HG2	15:bB:345:GLY:O	1.99	0.61
10:d4:121:ASP:O	10:d4:125:ARG:HG2	1.99	0.61
10:d4:163:VAL:HG11	7:E4:88:ILE:HD11	1.81	0.61
7:C4:36:LYS:HZ3	29:C4:202:PEB:C3B	2.13	0.61
7:C4:173:GLY:O	7:C4:177:SER:OG	2.14	0.61
7:E4:36:LYS:HZ3	29:E4:202:PEB:C3B	2.13	0.61
6:F4:157:ASP:OD1	6:F4:158:TYR:N	2.32	0.61
7:G4:39:ASP:CG	7:G4:153:PHE:CD1	2.79	0.61
7:G4:135:LYS:HZ3	7:G4:169:PHE:HB2	1.65	0.61
7:I5:28:LYS:CB	19:zL:290:LEU:C	2.74	0.61
6:J5:99:VAL:HG23	7:K5:9:VAL:HG21	1.81	0.61
1:X7:322:LYS:O	1:X7:325:LYS:N	2.33	0.61
15:bB:341:ALA:O	15:bB:349:LYS:CE	2.48	0.61
15:bB:362:ALA:CB	6:MB:49:GLU:HG2	2.31	0.61
7:PB:50:CYS:O	7:PB:54:ASP:HB2	2.00	0.61
6:fB:99:VAL:HA	7:gB:5:PHE:HB3	1.81	0.61
7:gB:50:CYS:O	7:gB:54:ASP:HB2	2.00	0.61
7:iB:50:CYS:O	7:iB:54:ASP:HB2	2.00	0.61
6:IB:91:ARG:HG2	6:IB:91:ARG:HH11	1.66	0.61
6:BD:94:ASN:HD22	7:CD:18:TYR:HD1	1.47	0.61
7:FE:91:ARG:HH22	18:ME:92:VAL:HG21	1.65	0.61
7:VF:127:SER:O	7:VF:131:VAL:HG23	2.00	0.61
6:hF:9:VAL:HG22	7:iF:1:MET:HE2	1.77	0.61
7:iI:33:ASP:HB2	7:iI:36:LYS:HD3	1.81	0.61
7:HJ:5:PHE:CZ	7:HJ:31:ILE:HG13	2.33	0.61
7:JJ:112:GLY:O	7:JJ:116:THR:OG1	2.19	0.61
2:AK:257:TYR:OH	2:AK:286:LYS:NZ	2.33	0.61
6:lK:135:ARG:HD2	6:lK:157:ASP:OD2	1.98	0.61
19:zL:363:ARG:CA	21:LP:62:TYR:CE1	2.83	0.61
7:eM:50:CYS:O	7:eM:54:ASP:HB2	2.00	0.61
6:AN:28:GLN:O	6:AN:32:GLN:NE2	2.29	0.61
20:AP:105:GLU:HA	20:AP:109:LEU:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:MP:10:ASN:OD1	24:XP:129:VAL:HG12	2.00	0.61
21:MP:110:ASN:HD21	24:XP:121:VAL:HB	1.64	0.61
21:kP:31:PHE:HD1	20:lP:30:VAL:HG12	1.66	0.61
20:lP:105:GLU:HA	20:lP:109:LEU:HB2	1.82	0.61
21:oP:147:LYS:HD3	21:oP:147:LYS:O	2.00	0.61
20:pP:105:GLU:HA	20:pP:109:LEU:HB2	1.82	0.61
6:MR:115:GLU:OE1	6:MR:115:GLU:N	2.33	0.61
6:SR:131:ILE:HG22	6:SR:160:ILE:HD11	1.81	0.61
7:XR:81:ALA:HA	7:XR:84:ARG:NH1	2.15	0.61
6:M2:31:ILE:HD11	7:N2:38:LEU:HD11	1.83	0.61
10:d4:104:LEU:HB2	29:C4:201:PEB:O1C	2.01	0.61
6:B4:113:ALA:N	7:K4:76:ASN:HD21	1.97	0.61
7:C4:150:LYS:HA	7:C4:150:LYS:HE3	1.82	0.61
6:D4:90:MET:N	6:D4:90:MET:HE3	2.15	0.61
6:J4:25:GLU:OE1	6:L4:33:ARG:HD3	2.00	0.61
7:I5:1:MET:HE1	28:bP:130:LEU:HD11	1.82	0.61
11:D5:219:TYR:CZ	5:HK:152:ASP:CB	2.83	0.61
3:B7:188:PHE:HB3	3:B7:192:LEU:HD23	1.82	0.61
7:I8:14:ALA:CA	21:nP:124:GLY:N	2.64	0.61
7:L8:104:VAL:HG23	4:I9:68:GLN:NE2	2.14	0.61
5:N9:166:ARG:NH1	26:ZP:96:VAL:CG2	2.63	0.61
6:AA:17:ARG:NH2	6:AA:18:PHE:O	2.33	0.61
6:EA:17:ARG:NH2	6:EA:18:PHE:O	2.34	0.61
7:LB:50:CYS:O	7:LB:54:ASP:HB2	2.00	0.61
6:AC:119:THR:HG21	7:JC:83:LEU:HD11	1.83	0.61
6:CC:17:ARG:O	7:DC:95:TYR:OH	2.15	0.61
18:MC:242:LYS:HB2	29:SF:202:PEB:O2B	1.98	0.61
7:CD:150:LYS:HE3	7:CD:150:LYS:HA	1.82	0.61
6:JD:54:GLU:CG	6:JD:137:ARG:HH11	2.12	0.61
7:MD:150:LYS:HA	7:MD:150:LYS:HE3	1.82	0.61
18:ME:303:PHE:HE1	6:gL:53:LYS:HB2	1.60	0.61
6:AG:17:ARG:NH2	6:CG:102:THR:OG1	2.33	0.61
6:GG:28:GLN:NE2	6:GG:32:GLN:OE1	2.33	0.61
7:HJ:125:ASN:OD1	7:HJ:125:ASN:N	2.30	0.61
3:BK:205:ARG:HE	20:IP:52:LYS:HE3	1.06	0.61
4:MK:94:MET:CB	4:MK:111:LEU:HD11	2.30	0.61
6:GL:118:ARG:HH12	6:IL:114:ARG:NH1	1.96	0.61
6:aL:39:GLU:CD	6:aL:148:ALA:HB2	2.25	0.61
7:TM:50:CYS:O	7:TM:54:ASP:HB2	2.00	0.61
7:kM:84:ARG:O	7:kM:84:ARG:HG2	2.00	0.61
6:AN:37:ARG:CG	6:AN:97:LEU:O	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KN:95:TYR:CG	7:LN:13:ASP:OD1	2.53	0.61
21:MP:118:SER:O	28:bP:58:GLY:HA2	2.00	0.61
20:RP:47:ARG:O	20:RP:51:VAL:HG23	1.99	0.61
21:SP:10:ASN:ND2	27:3P:37:GLY:O	2.33	0.61
25:YP:515:ASN:O	25:YP:517:ASN:N	2.33	0.61
21:hP:71:MEN:O	21:hP:77:ARG:HD3	2.00	0.61
21:uP:97:LEU:HD13	20:vP:18:LEU:HD22	1.82	0.61
22:xP:58:ILE:HD13	22:xP:129:ALA:HA	1.82	0.61
6:GQ:28:GLN:NE2	6:GQ:32:GLN:OE1	2.33	0.61
7:HQ:141:PHE:HE1	29:HQ:203:PEB:HMA3	1.62	0.61
7:RR:87:GLU:HG3	7:RR:88:ILE:N	2.14	0.61
4:M1:38:LEU:HD12	5:N1:28:SER:HB3	1.81	0.61
4:M1:94:MET:CB	4:M1:111:LEU:HD11	2.30	0.61
7:c1:46:SER:CB	6:d1:157:ASP:OD2	2.49	0.61
8:e2:145:SER:CA	8:e2:149:GLN:HG2	2.30	0.61
8:e2:299:VAL:O	5:F7:17:GLU:HB3	2.01	0.61
6:O2:142:ARG:NH1	6:lB:76:GLN:CG	2.53	0.61
7:V2:24:LEU:O	7:V2:28:LYS:HG3	1.99	0.61
6:W2:142:ARG:HD2	29:W2:202:PEB:CBA	2.22	0.61
10:d4:280:SER:OG	6:WF:70:GLY:HA3	2.01	0.61
10:d4:298:TYR:CD2	5:FF:17:GLU:HB2	2.34	0.61
10:d4:330:ALA:O	10:d4:334:LYS:HG2	2.00	0.61
7:G4:150:LYS:HA	7:G4:150:LYS:HE3	1.82	0.61
5:D7:42:ASN:O	5:D7:46:SER:OG	2.19	0.61
5:F7:75:THR:OG1	5:F7:78:ARG:HG3	2.01	0.61
7:a7:167:SER:CB	12:E8:37:VAL:HG21	2.29	0.61
7:K8:104:VAL:HG12	7:K8:108:ARG:HG3	1.83	0.61
1:X9:322:LYS:O	1:X9:325:LYS:N	2.33	0.61
4:E9:77:SER:HA	13:kH:226:ALA:HB2	1.82	0.61
6:U9:67:LYS:HZ2	13:kH:259:SER:HA	0.78	0.61
7:k9:52:VAL:HG11	7:k9:87:GLU:CG	2.29	0.61
6:KA:131:ILE:HD12	6:KA:159:LEU:CD2	2.30	0.61
10:dD:198:TYR:C	10:dD:200:THR:H	2.09	0.61
29:dD:401:PEB:CHA	7:ED:82:CYS:HA	2.30	0.61
6:FD:33:ARG:CZ	29:ID:202:PEB:HBD1	2.20	0.61
6:HD:90:MET:N	6:HD:90:MET:HE3	2.15	0.61
6:AG:33:ARG:HE	6:AG:36:ALA:HB3	1.63	0.61
6:EG:20:SER:OG	6:EG:21:ASN:N	2.32	0.61
3:BI:227:GLU:HG3	20:vP:56:GLN:HG2	1.80	0.61
4:EI:33:ARG:HH12	29:LI:1002:PEB:HBD1	0.48	0.61
7:JJ:5:PHE:HE2	7:JJ:31:ILE:CD1	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:kJ:25:GLU:HA	6:mJ:33:ARG:HE	1.65	0.61
6:sJ:10:SER:HB3	16:xJ:82:TYR:O	2.01	0.61
5:JK:15:ARG:HE	5:JK:15:ARG:HA	1.65	0.61
19:zL:104:ALA:HA	29:zL:501:PEB:O1C	2.01	0.61
7:VM:50:CYS:O	7:VM:54:ASP:HB2	2.00	0.61
6:YM:9:VAL:HG13	7:ZM:95:TYR:CD1	2.36	0.61
6:AO:95:TYR:O	6:AO:99:VAL:HG23	2.00	0.61
20:PP:105:GLU:HA	20:PP:109:LEU:HB2	1.82	0.61
20:gP:14:GLU:HG3	25:1P:509:PHE:CZ	2.35	0.61
21:oP:118:SER:O	28:4P:58:GLY:HA2	2.01	0.61
6:EQ:20:SER:OG	6:EQ:21:ASN:N	2.32	0.61
7:HQ:137:GLN:NE2	29:HQ:203:PEB:CHA	2.62	0.61
7:HQ:137:GLN:HE22	29:HQ:203:PEB:HHA1	1.65	0.61
5:J1:33:GLU:OE2	5:J1:156:LEU:HD21	2.00	0.61
8:e2:125:ARG:HB2	29:V2:201:PEB:CGC	2.30	0.61
6:W2:49:GLU:O	6:W2:53:LYS:CG	2.38	0.61
6:W2:115:GLU:N	6:W2:115:GLU:OE1	2.34	0.61
29:J3:202:PEB:HBD1	6:K3:33:ARG:HH21	1.66	0.61
6:B4:90:MET:N	6:B4:90:MET:HE3	2.15	0.61
7:E4:82:CYS:HA	29:E4:201:PEB:CHA	2.30	0.61
7:A5:67:ILE:O	7:A5:74:TYR:CD1	2.53	0.61
12:E5:162:ASN:C	29:kI:203:PEB:C1C	2.73	0.61
1:X7:311:ILE:HB	4:G7:14:ASN:HD21	1.66	0.61
5:N7:42:ASN:O	5:N7:46:SER:OG	2.19	0.61
29:W9:202:PEB:HMA1	8:eR:249:TYR:HB2	1.73	0.61
7:a9:147:THR:HG22	8:eR:287:ALA:HB1	0.61	0.61
6:AA:37:ARG:CG	6:AA:97:LEU:O	2.49	0.61
6:GA:17:ARG:NH2	6:GA:18:PHE:O	2.34	0.61
14:MA:244:GLN:HA	14:MA:247:LYS:HE2	1.82	0.61
7:cB:50:CYS:O	7:cB:54:ASP:HB2	2.00	0.61
7:gB:5:PHE:HZ	7:gB:31:ILE:HD11	1.66	0.61
7:kB:58:GLY:O	7:kB:62:GLU:CG	2.48	0.61
7:kB:85:ASP:OD2	7:kB:117:TYR:OH	2.13	0.61
6:BD:29:GLY:HA2	6:BD:32:GLN:HE22	1.65	0.61
7:CD:54:ASP:OD2	29:CD:203:PEB:HAA2	1.99	0.61
7:ED:132:SER:HA	7:ED:135:LYS:HB2	1.81	0.61
7:ID:150:LYS:HE3	7:ID:150:LYS:HA	1.82	0.61
18:ME:304:TRP:CE2	6:gL:87:ASP:HB2	2.36	0.61
3:BF:226:GLN:HB2	5:JF:152:ASP:CA	2.30	0.61
4:GF:145:GLN:NE2	29:JF:1002:PEB:CMC	2.64	0.61
6:CG:2:LYS:NZ	14:MG:139:GLY:N	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:141:PHE:CD2	29:FG:203:PEB:CMB	2.83	0.61
4:GI:145:GLN:NE2	29:JI:1002:PEB:CMC	2.64	0.61
7:NJ:5:PHE:CZ	7:NJ:31:ILE:HD11	2.35	0.61
7:PJ:113:LEU:HD23	7:PJ:176:ILE:HG22	1.82	0.61
6:mJ:3:SER:OG	7:nJ:3:ASP:OD2	2.17	0.61
5:JK:8:VAL:HG13	5:JK:11:GLN:HE22	1.66	0.61
7:HL:5:PHE:CZ	7:HL:31:ILE:HG13	2.33	0.61
7:HL:123:PRO:HG2	29:zL:501:PEB:HMA2	1.82	0.61
29:pL:202:PEB:OD	6:qL:33:ARG:NE	2.34	0.61
6:jM:48:HIS:O	6:jM:52:VAL:HG23	1.99	0.61
7:mM:50:CYS:O	7:mM:54:ASP:HB2	2.00	0.61
7:BN:116:THR:HG21	14:MN:122:PHE:CD2	2.36	0.61
6:IN:108:TRP:CZ3	7:JN:13:ASP:OD2	2.54	0.61
14:MN:244:GLN:HA	14:MN:247:LYS:HE2	1.83	0.61
9:OO:246:ASP:HB2	9:OO:252:ARG:HH12	1.65	0.61
20:EP:15:ALA:CB	25:YP:532:LEU:HD11	2.30	0.61
21:UP:110:ASN:O	25:YP:848:ALA:HB2	2.00	0.61
21:nP:107:ARG:HH12	24:zP:110:LYS:HG2	1.65	0.61
21:oP:10:ASN:OD1	24:zP:129:VAL:HG12	1.99	0.61
20:vP:131:ARG:HH22	27:3P:250:VAL:HB	1.65	0.61
6:CQ:2:LYS:HZ2	14:MQ:138:SER:HB3	1.65	0.61
6:QR:24:LEU:HD21	7:RR:41:VAL:HG21	1.83	0.61
6:UR:54:GLU:OE1	29:UR:202:PEB:CMC	2.49	0.61
4:E1:46:GLY:O	6:Q7:49:GLU:HG2	2.01	0.61
5:H1:35:ASN:HD22	29:H1:1002:PEB:C1C	2.13	0.61
5:L1:37:ARG:HG2	5:L1:37:ARG:O	2.01	0.61
5:L1:68:GLN:HG3	15:bB:342:TYR:CD2	2.35	0.61
6:h1:49:GLU:O	6:h1:53:LYS:CG	2.49	0.61
8:e2:147:PHE:C	8:e2:151:ASN:ND2	2.51	0.61
6:M2:33:ARG:CD	6:M2:151:GLU:OE2	2.49	0.61
6:Q2:136:ASP:OD1	6:Q2:136:ASP:N	2.24	0.61
7:X2:81:ALA:HA	7:X2:84:ARG:NH1	2.15	0.61
10:d4:278:GLY:N	6:WF:69:PRO:HD2	2.15	0.61
6:H4:81:LYS:HZ1	29:H4:201:PEB:C1C	2.13	0.61
7:L5:79:MET:HE2	13:k6:233:VAL:HB	1.80	0.61
3:B7:7:LYS:HB2	3:B7:7:LYS:NZ	2.16	0.61
4:E7:104:THR:OG1	4:K7:17:ARG:NH2	2.29	0.61
12:E8:186:PRO:HG2	6:bF:57:ASP:HB2	0.63	0.61
5:H9:42:ASN:O	5:H9:46:SER:OG	2.19	0.61
6:KA:17:ARG:NH2	6:KA:18:PHE:O	2.34	0.61
6:GB:138:LEU:CB	29:GB:202:PEB:HMD1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RB:61:CYS:CB	29:RB:203:PEB:CBD	2.50	0.61
7:mB:167:SER:O	7:mB:171:ARG:HG3	1.99	0.61
18:MC:285:TYR:O	5:DF:18:PHE:CD2	2.54	0.61
10:dD:217:SER:OG	29:ID:201:PEB:HAC2	1.92	0.61
6:BD:20:SER:N	6:BD:23:ASP:OD2	2.29	0.61
3:BF:226:GLN:CB	5:JF:152:ASP:HA	2.31	0.61
5:LF:68:GLN:CD	27:3P:110:SER:CB	2.74	0.61
7:PF:33:ASP:HB2	7:PF:36:LYS:HD3	1.81	0.61
6:KG:2:LYS:HZ1	30:MG:402:PUB:CBB	2.11	0.61
13:kH:280:ARG:CG	13:kH:283:LYS:HZ1	2.13	0.61
7:mI:127:SER:O	7:mI:131:VAL:HG23	2.00	0.61
7:NJ:114:LYS:HE3	7:NJ:176:ILE:C	2.18	0.61
7:IJ:108:ARG:HG2	16:xJ:183:LYS:CE	2.30	0.61
6:hK:5:ILE:CB	7:iK:3:ASP:OD2	2.42	0.61
16:wL:179:ALA:O	16:xL:40:VAL:CG2	2.44	0.61
6:UM:142:ARG:HD2	14:MQ:112:LEU:CA	2.30	0.61
7:JN:37:ARG:NH1	7:JN:97:LEU:O	2.34	0.61
6:KN:17:ARG:NH2	6:KN:18:PHE:O	2.34	0.61
20:gP:15:ALA:HB2	25:1P:532:LEU:CD1	2.23	0.61
7:HQ:54:ASP:OD2	29:HQ:203:PEB:HHC1	1.99	0.61
7:LQ:133:ILE:CB	29:LQ:202:PEB:CBC	2.78	0.61
14:MQ:172:SER:HB2	14:MQ:174:ARG:HH21	1.66	0.61
6:MR:31:ILE:HD11	7:NR:38:LEU:HD11	1.83	0.61
6:OR:65:TYR:OH	6:OR:66:LEU:HD21	1.99	0.61
6:SR:137:ARG:CG	29:SR:202:PEB:HHC1	2.25	0.61
2:A1:157:ASP:N	2:A1:157:ASP:OD1	2.30	0.61
4:K1:143:SER:CB	29:cJ:202:PEB:OA	2.40	0.61
8:e2:268:PHE:CB	7:P2:107:ASP:OD2	2.45	0.61
6:W2:142:ARG:CD	29:W2:202:PEB:CAA	2.78	0.61
6:K3:54:GLU:CD	29:K3:202:PEB:HMC3	2.25	0.61
10:d4:68:LEU:HA	10:d4:71:ARG:HD2	1.82	0.61
10:d4:142:LYS:HB2	10:d4:210:MET:SD	2.40	0.61
7:C4:82:CYS:HA	29:C4:201:PEB:CHA	2.30	0.61
7:G4:58:GLY:HA2	29:G4:203:PEB:C3D	2.24	0.61
7:M4:124:THR:CA	6:UF:69:PRO:HG2	2.29	0.61
12:E5:37:VAL:HG21	7:a9:167:SER:CB	2.31	0.61
5:F7:42:ASN:O	5:F7:46:SER:OG	2.19	0.61
6:l7:137:ARG:NH1	29:l7:202:PEB:HNC	1.99	0.61
7:B8:108:ARG:HD2	18:ME:266:GLY:C	2.26	0.61
7:I8:27:LEU:HD23	19:zJ:295:LYS:HA	1.82	0.61
7:I8:28:LYS:HD3	19:zJ:291:ILE:HG13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J9:42:ASN:O	5:J9:46:SER:OG	2.19	0.61
17:BB:81:ALA:CA	7:RB:115:GLU:OE1	2.49	0.61
10:dD:142:LYS:HB2	10:dD:210:MET:SD	2.41	0.61
7:GD:54:ASP:HB3	29:GD:203:PEB:HAA2	1.83	0.61
18:ME:233:ALA:CB	18:ME:236:ASP:CG	2.72	0.61
18:ME:240:ARG:HD3	6:SI:133:TYR:CE1	2.22	0.61
3:BF:204:ARG:NH2	21:uP:61:LEU:CD2	2.53	0.61
6:CG:20:SER:OG	6:CG:21:ASN:N	2.32	0.61
6:KG:88:HIS:HA	6:KG:91:ARG:HE	1.65	0.61
29:DI:1002:PEB:HMC2	4:MI:145:GLN:NE2	2.15	0.61
7:VI:127:SER:O	7:VI:131:VAL:HG23	2.00	0.61
6:IJ:140:VAL:HG21	6:IJ:146:ALA:HA	1.81	0.61
6:qJ:99:VAL:HG13	7:rJ:9:VAL:HG21	1.81	0.61
3:BK:204:ARG:CG	3:BK:204:ARG:HH11	2.14	0.61
4:EK:9:ILE:HD11	5:FK:99:ALA:HB2	1.82	0.61
4:GK:65:TYR:HA	4:GK:68:GLN:HG2	1.82	0.61
4:MK:93:ARG:HD3	5:NK:18:PHE:CE1	2.36	0.61
6:GM:138:LEU:CB	29:GM:202:PEB:HMD1	2.30	0.61
7:RM:50:CYS:O	7:RM:54:ASP:HB2	2.00	0.61
7:kM:50:CYS:O	7:kM:54:ASP:HB2	2.00	0.61
6:EN:1:MET:HG2	14:MN:196:ASN:HD21	0.67	0.61
6:EN:37:ARG:HD2	6:EN:97:LEU:O	2.01	0.61
21:FP:63:SER:OG	21:FP:65:ILE:CG1	2.49	0.61
20:TP:31:LEU:HB3	27:aP:152:ALA:CB	2.30	0.61
20:tP:9:VAL:CG1	25:1P:704:GLN:HB3	2.25	0.61
25:1P:75:ILE:O	25:1P:134:PRO:HD2	2.00	0.61
7:BQ:137:GLN:HE22	29:BQ:203:PEB:HHA1	1.66	0.61
7:FQ:141:PHE:HE2	29:FQ:203:PEB:CHA	2.14	0.61
6:SR:115:GLU:N	6:SR:115:GLU:OE1	2.33	0.61
6:WR:115:GLU:N	6:WR:115:GLU:OE1	2.33	0.61
4:C1:111:LEU:HD12	31:C1:1001:CYC:HAB2	1.82	0.61
4:C1:157:ALA:HA	4:C1:160:THR:CG2	2.31	0.61
4:M1:38:LEU:CD1	5:N1:28:SER:HB3	2.31	0.61
6:h1:135:ARG:CD	6:h1:157:ASP:CG	2.74	0.61
6:Q2:24:LEU:HD21	7:R2:41:VAL:HG21	1.83	0.61
6:U2:65:TYR:CE2	6:U2:66:LEU:CD2	2.84	0.61
7:V2:47:ASN:O	7:V2:51:MET:HG3	2.01	0.61
6:A3:138:LEU:HD21	6:A3:149:GLY:CA	2.31	0.61
7:E4:150:LYS:HA	7:E4:150:LYS:HE3	1.82	0.61
7:B5:108:ARG:CD	18:MC:266:GLY:O	2.47	0.61
5:D7:15:ARG:NH2	7:R7:62:GLU:OE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F9:15:ARG:NH1	7:a9:62:GLU:CB	2.61	0.61
5:N9:42:ASN:O	5:N9:46:SER:OG	2.19	0.61
6:f9:18:PHE:HD2	7:g9:45:VAL:HG22	1.65	0.61
6:EC:33:ARG:HD2	29:HC:202:PEB:CBD	2.30	0.61
7:LC:7:ARG:CZ	18:MC:258:THR:HG23	2.14	0.61
10:dD:167:TYR:CZ	10:dD:171:ILE:HD11	2.36	0.61
18:ME:280:VAL:HG13	4:CI:49:GLN:CG	2.30	0.61
18:ME:312:LEU:CD2	7:vL:69:PRO:N	2.64	0.61
1:XF:324:ASN:HA	4:GF:16:GLY:HA3	1.83	0.61
29:DF:1002:PEB:CMC	4:MF:145:GLN:HE21	2.14	0.61
29:HF:1002:PEB:HMC2	4:IF:145:GLN:HE21	1.63	0.61
4:MF:143:SER:CB	6:eJ:69:PRO:HB3	2.31	0.61
5:Nf:75:THR:OG1	5:Nf:78:ARG:N	2.21	0.61
4:MI:143:SER:CB	6:eL:69:PRO:HB3	2.31	0.61
7:NJ:114:LYS:CG	7:NJ:176:ILE:C	2.73	0.61
7:nJ:109:CYS:O	16:xJ:111:GLN:NE2	2.31	0.61
6:sJ:14:ALA:HA	16:xJ:87:THR:CA	2.31	0.61
17:yJ:189:ARG:NH2	29:yJ:301:PEB:O2C	2.33	0.61
2:AK:157:ASP:N	2:AK:157:ASP:OD1	2.30	0.61
3:BK:222:LEU:O	3:BK:226:GLN:HG2	2.01	0.61
7:cK:46:SER:CB	6:dK:157:ASP:OD2	2.49	0.61
6:jK:49:GLU:O	6:jK:53:LYS:CG	2.49	0.61
6:kL:25:GLU:HA	6:mL:33:ARG:HE	1.65	0.61
15:bM:336:SER:N	15:bM:337:PRO:HD2	2.15	0.61
7:JM:85:ASP:OD2	29:JM:201:PEB:NC	2.34	0.61
6:lM:91:ARG:HH11	6:lM:91:ARG:HG2	1.66	0.61
14:MN:296:ASN:HA	14:MN:299:ARG:HG3	1.83	0.61
21:FP:60:LEU:HD13	21:FP:72:MET:SD	2.40	0.61
21:SP:97:LEU:HD13	20:TP:18:LEU:HD22	1.81	0.61
22:VP:135:GLU:O	22:VP:139:GLU:HG3	2.01	0.61
14:MQ:172:SER:HB2	14:MQ:174:ARG:HE	1.66	0.61
8:eR:239:LYS:HZ2	7:PR:120:LEU:CD2	2.12	0.61
6:OR:138:LEU:HD11	6:OR:144:MET:HE3	1.83	0.61
4:E1:4:PRO:CG	4:E1:30:ARG:HD3	2.20	0.60
6:Q2:39:GLU:OE2	6:Q2:144:MET:HB3	2.00	0.60
6:W2:37:ARG:NH1	6:W2:97:LEU:O	2.31	0.60
6:J5:3:SER:OG	6:J5:4:VAL:N	2.34	0.60
29:l7:202:PEB:H3A1	12:E8:233:TYR:CZ	2.36	0.60
12:E8:209:ARG:HG2	6:lF:70:GLY:N	2.16	0.60
2:A9:41:SER:HB2	29:Y9:201:PEB:HBD1	1.82	0.60
5:D9:15:ARG:NH2	7:R9:62:GLU:OE1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BA:116:THR:HG21	14:MA:122:PHE:CD2	2.36	0.60
7:JA:37:ARG:NH1	7:JA:97:LEU:O	2.34	0.60
6:IB:57:ASP:O	6:IB:58:ALA:C	2.43	0.60
18:MC:61:VAL:HG23	18:MC:61:VAL:O	2.00	0.60
6:JD:20:SER:N	6:JD:23:ASP:OD2	2.29	0.60
6:AE:119:THR:HG21	7:JE:83:LEU:HD11	1.83	0.60
3:BF:30:ARG:HD2	4:GF:14:ASN:HD22	1.65	0.60
29:BG:201:PEB:CBC	29:MG:404:PEB:HBD2	1.98	0.60
3:BI:225:VAL:HG13	3:BI:225:VAL:O	2.00	0.60
6:aJ:39:GLU:CD	6:aJ:148:ALA:HB2	2.25	0.60
7:tJ:91:ARG:NH2	16:xJ:90:THR:CG2	2.64	0.60
5:HK:40:ILE:HG12	29:HK:1002:PEB:HBA1	1.82	0.60
6:QL:53:LYS:HB2	6:QL:53:LYS:NZ	2.16	0.60
19:zL:363:ARG:NE	21:LP:67:ARG:HH12	1.99	0.60
6:aM:135:ARG:HD2	6:aM:157:ASP:OD1	2.00	0.60
7:gM:75:THR:HG23	6:jM:108:TRP:HA	1.83	0.60
6:CO:138:LEU:HD21	6:CO:149:GLY:CA	2.31	0.60
7:NO:77:ARG:HH12	9:OO:361:PRO:HD3	1.65	0.60
21:MP:68:PRO:O	28:bP:40:ARG:NH2	2.34	0.60
20:RP:105:GLU:HA	20:RP:109:LEU:HB2	1.82	0.60
25:YP:77:VAL:HG12	25:YP:134:PRO:O	2.00	0.60
25:YP:249:LEU:HB2	25:YP:401:PRO:HB3	1.82	0.60
20:iP:14:GLU:HG2	25:1P:238:LYS:HD3	1.82	0.60
21:qP:20:ASP:O	21:qP:24:VAL:HG23	2.01	0.60
23:yP:137:GLN:O	23:yP:141:GLU:HG3	2.00	0.60
14:MQ:243:MET:O	14:MQ:247:LYS:NZ	2.34	0.60
3:B1:44:ASP:OD1	3:B1:74:ARG:NH2	2.34	0.60
4:C1:3:THR:HB	4:C1:4:PRO:HD3	1.82	0.60
5:N1:12:ALA:HB2	5:N1:19:LEU:CD2	2.30	0.60
6:l1:135:ARG:CD	6:l1:157:ASP:CG	2.74	0.60
6:O2:141:PRO:HA	6:IB:67:LYS:HZ1	1.66	0.60
6:S2:65:TYR:CE2	6:S2:66:LEU:CD2	2.85	0.60
7:V2:33:ASP:OD2	7:V2:36:LYS:HD2	2.01	0.60
9:O3:308:TYR:CE2	4:KI:70:PRO:HD2	2.36	0.60
10:d4:198:TYR:C	10:d4:200:THR:H	2.09	0.60
6:F4:81:LYS:C	6:F4:84:ARG:CD	2.67	0.60
7:G4:173:GLY:O	7:G4:177:SER:OG	2.14	0.60
7:L5:104:VAL:CG2	4:I7:68:GLN:HE22	2.14	0.60
3:B7:123:ARG:NH1	26:2P:53:ILE:HD13	2.16	0.60
7:K8:104:VAL:HG13	7:K8:108:ARG:CG	2.30	0.60
5:F9:75:THR:OG1	5:F9:78:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H9:66:LEU:C	5:H9:73:ALA:HB3	2.24	0.60
5:H9:141:LEU:CB	13:kH:187:THR:HG21	2.25	0.60
6:CA:17:ARG:NH2	6:CA:18:PHE:O	2.34	0.60
7:DA:37:ARG:NH1	7:DA:97:LEU:O	2.34	0.60
7:gB:75:THR:HG23	6:jB:108:TRP:HA	1.83	0.60
10:dD:330:ALA:O	10:dD:334:LYS:HG2	2.00	0.60
6:DD:90:MET:HE3	6:DD:90:MET:N	2.15	0.60
7:GD:39:ASP:CG	7:GD:153:PHE:CD1	2.79	0.60
6:LD:90:MET:N	6:LD:90:MET:HE3	2.15	0.60
18:ME:269:ASN:HB3	7:PI:146:ALA:O	2.01	0.60
1:XI:324:ASN:HA	4:GI:16:GLY:HA3	1.83	0.60
3:BI:224:MET:HG3	5:JI:152:ASP:HB2	1.83	0.60
5:JI:22:THR:OG1	27:aP:92:PRO:HB2	2.01	0.60
7:HJ:47:ASN:HD21	7:HJ:149:ARG:NH1	1.98	0.60
6:UJ:122:LEU:HD22	29:UJ:201:PEB:HNA	1.67	0.60
6:gJ:48:HIS:CD2	6:gJ:49:GLU:OE1	2.54	0.60
6:mJ:118:ARG:HG2	6:oJ:164:SER:HA	1.84	0.60
6:sJ:14:ALA:HA	16:xJ:87:THR:CB	2.31	0.60
19:zJ:362:GLY:C	21:nP:62:TYR:HE2	2.01	0.60
7:gM:5:PHE:HZ	7:gM:31:ILE:HD11	1.66	0.60
7:LN:37:ARG:NH1	7:LN:97:LEU:O	2.34	0.60
6:IO:42:GLU:O	6:IO:42:GLU:CG	2.49	0.60
7:JO:84:ARG:HH12	9:OO:63:TYR:H	1.48	0.60
20:KP:105:GLU:HA	20:KP:109:LEU:HB2	1.82	0.60
22:VP:58:ILE:HD13	22:VP:129:ALA:HA	1.82	0.60
22:VP:153:TYR:O	22:VP:157:ILE:HG12	2.00	0.60
20:tP:105:GLU:HA	20:tP:109:LEU:HB2	1.82	0.60
27:3P:264:LYS:O	27:3P:264:LYS:HG2	2.00	0.60
6:AQ:88:HIS:HA	6:AQ:91:ARG:HE	1.65	0.60
6:CQ:34:SER:OG	7:DQ:31:ILE:HG12	2.01	0.60
6:IQ:20:SER:OG	6:IQ:21:ASN:N	2.32	0.60
6:KQ:88:HIS:HA	6:KQ:91:ARG:HE	1.65	0.60
8:eR:78:LEU:HD11	7:NR:116:THR:OG1	2.00	0.60
6:MR:65:TYR:CE2	6:MR:66:LEU:CD2	2.84	0.60
6:OR:33:ARG:CD	6:OR:151:GLU:OE2	2.49	0.60
6:SR:37:ARG:NH1	6:SR:97:LEU:O	2.31	0.60
7:XR:107:ASP:OD1	7:XR:108:ARG:N	2.31	0.60
5:J1:20:SER:N	5:J1:23:GLN:NE2	2.45	0.60
8:e2:108:HIS:HB2	29:e2:401:PEB:O2C	2.01	0.60
8:e2:126:TYR:CD2	7:V2:120:LEU:HD11	2.37	0.60
6:M2:65:TYR:CE2	6:M2:66:LEU:CD2	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:167:TYR:CZ	10:d4:171:ILE:HD11	2.36	0.60
6:B4:17:ARG:HH21	6:B4:17:ARG:CG	2.14	0.60
7:E4:59:MET:CE	7:E4:129:ARG:C	2.74	0.60
7:K4:65:GLY:O	7:K4:68:SER:OG	2.15	0.60
7:I5:79:MET:SD	15:bB:229:LEU:CB	2.89	0.60
12:E8:164:VAL:CG2	29:kF:203:PEB:OD	2.49	0.60
2:A9:52:ARG:O	2:A9:54:ARG:NH1	2.34	0.60
5:F9:42:ASN:O	5:F9:46:SER:OG	2.19	0.60
6:Q9:53:LYS:CG	4:EK:49:GLN:HG2	2.30	0.60
7:LA:109:CYS:O	7:LA:113:LEU:HD11	1.99	0.60
7:LB:85:ASP:OD2	7:LB:117:TYR:OH	2.17	0.60
7:CD:50:CYS:SG	29:CD:203:PEB:C3A	2.89	0.60
7:ED:141:PHE:HZ	29:ED:202:PEB:HMA3	1.66	0.60
7:ED:157:ASP:OD1	7:ED:159:THR:N	2.21	0.60
6:FD:20:SER:N	6:FD:23:ASP:OD2	2.29	0.60
7:GD:157:ASP:OD1	7:GD:159:THR:N	2.21	0.60
7:KD:150:LYS:HE3	7:KD:150:LYS:HA	1.82	0.60
18:ME:229:GLU:HG2	18:ME:242:LYS:NZ	2.00	0.60
6:IG:28:GLN:NE2	6:IG:32:GLN:OE1	2.33	0.60
29:LG:201:PEB:HMC2	14:MG:237:ILE:HG22	1.82	0.60
29:DI:1002:PEB:CMC	4:MI:145:GLN:HE21	2.14	0.60
7:NJ:24:LEU:O	7:NJ:28:LYS:HG3	2.01	0.60
6:OJ:122:LEU:HD22	29:OJ:201:PEB:HNA	1.67	0.60
6:eJ:122:LEU:HD22	29:eJ:201:PEB:HNA	1.67	0.60
6:oJ:147:GLN:OE1	29:rJ:202:PEB:HMC1	2.00	0.60
16:xJ:253:GLU:O	16:xJ:257:ASN:ND2	2.34	0.60
5:FK:39:ASP:OD1	5:FK:39:ASP:N	2.19	0.60
5:JK:17:GLU:OE1	15:bM:333:ARG:CD	2.49	0.60
5:LK:37:ARG:O	5:LK:37:ARG:HG2	2.01	0.60
7:HL:47:ASN:HD21	7:HL:149:ARG:NH1	1.98	0.60
6:OL:94:ASN:HD22	7:PL:18:TYR:HB3	1.65	0.60
6:WL:72:ALA:CB	29:WL:202:PEB:HMA3	2.27	0.60
6:iL:122:LEU:HD22	29:iL:201:PEB:HNA	1.67	0.60
6:oL:122:LEU:HD22	29:oL:201:PEB:HNA	1.67	0.60
19:zL:361:ARG:O	20:NP:77:MET:HE3	2.00	0.60
7:RM:60:ILE:HG22	7:RM:60:ILE:O	2.01	0.60
7:iM:50:CYS:O	7:iM:54:ASP:HB2	2.00	0.60
7:kM:58:GLY:O	7:kM:62:GLU:CG	2.48	0.60
6:AN:17:ARG:NH2	6:AN:18:PHE:O	2.33	0.60
7:DN:37:ARG:NH1	7:DN:97:LEU:O	2.34	0.60
6:IN:37:ARG:HD2	6:IN:97:LEU:O	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KO:54:GLU:CD	29:KO:202:PEB:HMC3	2.25	0.60
6:KO:138:LEU:HD21	6:KO:149:GLY:CA	2.31	0.60
21:DP:20:ASP:O	21:DP:24:VAL:HG23	2.02	0.60
20:CP:105:GLU:HA	20:CP:109:LEU:HB2	1.82	0.60
21:LP:9:ILE:HD11	22:VP:97:LEU:HD23	1.83	0.60
21:MP:72:MET:HA	21:MP:77:ARG:CB	2.30	0.60
20:NP:106:GLU:OE1	24:XP:129:VAL:HA	2.01	0.60
21:QP:64:ASP:HB2	21:QP:67:ARG:NH1	2.15	0.60
21:UP:20:ASP:O	21:UP:24:VAL:HG23	2.01	0.60
26:ZP:121:VAL:O	26:ZP:125:ASP:OD1	2.18	0.60
27:aP:41:TYR:OH	27:aP:46:ASP:OD2	2.08	0.60
21:kP:19:LEU:HD12	20:lP:97:ILE:HD12	1.83	0.60
21:nP:20:ASP:O	21:nP:24:VAL:HG23	2.02	0.60
21:sP:20:ASP:O	21:sP:24:VAL:HG23	2.02	0.60
6:OR:65:TYR:CE2	6:OR:66:LEU:CD2	2.85	0.60
2:A1:257:TYR:OH	2:A1:286:LYS:NZ	2.33	0.60
8:e2:126:TYR:CZ	7:V2:116:THR:HA	2.36	0.60
7:B3:120:LEU:CD1	29:B3:201:PEB:HBB1	2.29	0.60
7:C4:133:ILE:HD11	29:C4:203:PEB:C3C	2.31	0.60
6:D4:81:LYS:HZ1	29:D4:201:PEB:C1C	2.14	0.60
6:F4:90:MET:N	6:F4:90:MET:HE3	2.15	0.60
7:I4:137:GLN:HA	29:I4:203:PEB:HAB2	1.83	0.60
7:K4:170:ASP:N	7:K4:170:ASP:OD1	2.33	0.60
12:E5:162:ASN:O	29:kI:203:PEB:C1C	2.49	0.60
12:E5:162:ASN:N	29:kI:203:PEB:O2B	2.34	0.60
13:k6:32:ASN:HD22	13:k6:32:ASN:N	1.99	0.60
1:X7:324:ASN:OD1	1:X7:325:LYS:N	2.35	0.60
5:L7:63:GLN:HE22	27:aP:284:VAL:HG21	1.66	0.60
7:I8:24:LEU:H	7:I8:24:LEU:CD2	2.14	0.60
7:Y9:39:ASP:OD1	7:Y9:153:PHE:HE1	1.82	0.60
6:j9:99:VAL:HG21	7:k9:9:VAL:HG21	1.78	0.60
7:PB:61:CYS:HB2	29:PB:202:PEB:HBD2	1.68	0.60
7:RB:60:ILE:HG22	7:RB:60:ILE:O	2.01	0.60
18:ME:303:PHE:CD2	6:gL:83:TYR:HE2	2.04	0.60
5:JF:22:THR:CB	27:3P:92:PRO:CG	2.62	0.60
29:BG:201:PEB:CGC	29:MG:404:PEB:HBD1	2.29	0.60
5:JI:15:ARG:NH2	27:aP:94:PHE:CE1	2.70	0.60
6:kJ:14:ALA:O	16:xJ:187:ARG:CD	2.49	0.60
6:oJ:17:ARG:C	7:pJ:91:ARG:HD2	2.26	0.60
7:tJ:113:LEU:HB2	16:xJ:220:TYR:OH	2.00	0.60
16:wJ:238:MET:HG2	16:wJ:260:PRO:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DK:40:ILE:CD1	5:DK:156:LEU:HD13	2.30	0.60
6:IL:72:ALA:HB1	29:IL:201:PEB:HMA3	1.83	0.60
6:UL:122:LEU:HD22	29:UL:201:PEB:HNA	1.67	0.60
16:wL:176:TYR:CB	16:xL:39:LEU:CD1	2.79	0.60
6:fM:135:ARG:HD2	6:fM:157:ASP:OD1	1.99	0.60
7:DO:145:THR:O	7:DO:145:THR:HG23	2.02	0.60
29:JO:202:PEB:HBD1	6:KO:33:ARG:HH21	1.66	0.60
21:LP:20:ASP:O	21:LP:24:VAL:HG23	2.02	0.60
20:TP:31:LEU:HB3	27:aP:152:ALA:HB1	1.82	0.60
31:UP:1001:CYC:O2D	25:YP:697:GLY:HA2	2.01	0.60
25:YP:512:GLU:N	25:YP:512:GLU:OE1	2.33	0.60
20:eP:105:GLU:HA	20:eP:109:LEU:HB2	1.83	0.60
20:gP:105:GLU:HA	20:gP:109:LEU:HB2	1.82	0.60
21:uP:20:ASP:O	21:uP:24:VAL:HG23	2.02	0.60
22:xP:135:GLU:O	22:xP:139:GLU:HG3	2.01	0.60
6:CQ:20:SER:OG	6:CQ:21:ASN:N	2.32	0.60
8:eR:221:ASN:ND2	7:TR:113:LEU:HD12	2.16	0.60
6:QR:65:TYR:CE2	6:QR:66:LEU:CD2	2.84	0.60
5:H1:145:THR:HG23	29:H1:1002:PEB:HMA2	1.83	0.60
6:h1:135:ARG:NH1	6:h1:157:ASP:OD2	2.34	0.60
6:O2:33:ARG:CD	6:O2:151:GLU:OE2	2.49	0.60
7:J3:84:ARG:HH12	9:O3:63:TYR:H	1.48	0.60
10:d4:338:GLU:HG3	10:dD:327:SER:OG	2.00	0.60
7:G4:157:ASP:OD1	7:G4:159:THR:N	2.21	0.60
7:K4:36:LYS:HZ3	29:K4:202:PEB:C3B	2.13	0.60
7:I5:24:LEU:H	7:I5:24:LEU:CD2	2.14	0.60
7:A5:69:PRO:HG3	7:A5:74:TYR:OH	2.00	0.60
2:A7:52:ARG:O	2:A7:54:ARG:NH1	2.34	0.60
1:X9:324:ASN:OD1	1:X9:325:LYS:N	2.35	0.60
3:B9:172:LYS:CB	26:ZP:86:PRO:HG3	2.30	0.60
7:a9:84:ARG:O	7:a9:88:ILE:CG1	2.32	0.60
6:GA:57:ASP:N	6:GA:57:ASP:OD1	2.32	0.60
6:GA:140:VAL:HG12	6:GA:146:ALA:HA	1.83	0.60
6:IA:108:TRP:CZ3	7:JA:13:ASP:OD2	2.54	0.60
6:CB:54:GLU:HG3	29:CB:202:PEB:CAC	2.20	0.60
7:GD:36:LYS:HZ3	29:GD:202:PEB:C3B	2.15	0.60
7:ID:36:LYS:HZ3	29:ID:202:PEB:C3B	2.14	0.60
7:ID:82:CYS:HA	29:ID:201:PEB:HHA1	1.84	0.60
18:ME:232:MET:SD	29:SI:202:PEB:HAB1	2.39	0.60
18:ME:261:VAL:CG2	6:SI:68:ASN:HA	2.31	0.60
3:BF:204:ARG:CD	31:rP:1001:CYC:O1D	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HJ:72:MEN:O	7:HJ:78:ARG:CD	2.47	0.60
7:LJ:27:LEU:HG	28:4P:228:ILE:HG21	1.82	0.60
6:SJ:122:LEU:HD22	29:SJ:201:PEB:HNA	1.67	0.60
7:TJ:25:GLN:HG2	25:YP:521:THR:CG2	2.05	0.60
6:kJ:122:LEU:HD22	29:kJ:201:PEB:HNA	1.67	0.60
6:sJ:10:SER:C	16:xJ:82:TYR:HB2	2.27	0.60
16:wJ:253:GLU:O	16:wJ:257:ASN:ND2	2.34	0.60
6:bK:135:ARG:CD	6:bK:157:ASP:CG	2.74	0.60
6:gL:122:LEU:HD22	29:gL:201:PEB:HNA	1.67	0.60
16:wL:253:GLU:O	16:wL:257:ASN:ND2	2.34	0.60
15:bM:203:PRO:HA	7:FM:108:ARG:HA	1.84	0.60
17:BM:81:ALA:CA	7:RM:115:GLU:OE1	2.49	0.60
7:JM:58:GLY:O	7:JM:62:GLU:HG2	2.02	0.60
6:AN:140:VAL:HG12	6:AN:146:ALA:HA	1.83	0.60
6:EN:17:ARG:NH2	6:EN:18:PHE:O	2.34	0.60
6:GN:140:VAL:HG12	6:GN:146:ALA:HA	1.83	0.60
14:MN:222:SER:HB3	14:MN:296:ASN:HB3	1.84	0.60
14:MN:296:ASN:HA	14:MN:299:ARG:CG	2.32	0.60
20:KP:14:GLU:HG3	25:YP:261:GLN:HB3	1.83	0.60
21:LP:75:THR:HG23	20:NP:108:GLY:HA2	1.84	0.60
21:dP:20:ASP:O	21:dP:24:VAL:HG23	2.01	0.60
21:fP:20:ASP:O	21:fP:24:VAL:HG23	2.01	0.60
21:hP:20:ASP:O	21:hP:24:VAL:HG23	2.02	0.60
20:vP:161:GLN:HB3	27:3P:175:THR:HG21	1.84	0.60
25:1P:77:VAL:HG12	25:1P:134:PRO:O	2.00	0.60
8:eR:89:PRO:HG3	7:VR:77:ARG:HH12	1.65	0.60
8:eR:214:PHE:HD2	29:TR:201:PEB:O1C	1.84	0.60
3:B1:225:VAL:O	3:B1:228:MET:CG	2.43	0.60
4:E1:137:LYS:O	4:E1:140:HIS:CD2	2.55	0.60
8:e2:153:GLN:HE22	7:X2:108:ARG:HH22	0.66	0.60
6:M2:115:GLU:OE1	6:M2:115:GLU:N	2.33	0.60
6:M2:142:ARG:CG	6:M2:143:ASP:N	2.63	0.60
6:S2:131:ILE:HG22	6:S2:160:ILE:HD11	1.81	0.60
6:W2:87:ASP:OD1	7:X2:18:TYR:OH	2.19	0.60
6:B4:29:GLY:CA	6:B4:32:GLN:NE2	2.61	0.60
7:I4:173:GLY:O	7:I4:177:SER:OG	2.14	0.60
7:M4:150:LYS:HE3	7:M4:150:LYS:HA	1.82	0.60
13:k6:226:ALA:HB2	4:E7:77:SER:HA	1.82	0.60
5:H7:42:ASN:O	5:H7:46:SER:OG	2.19	0.60
7:I8:14:ALA:HA	21:nP:124:GLY:N	2.17	0.60
7:C8:77:ARG:CZ	29:C8:201:PEB:O2B	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X9:115:LEU:HD12	1:X9:118:LYS:HB2	1.83	0.60
7:FA:37:ARG:NH1	7:FA:97:LEU:O	2.34	0.60
15:bB:358:LEU:CD2	20:KP:75:GLU:OE1	2.49	0.60
7:TB:50:CYS:O	7:TB:54:ASP:HB2	2.00	0.60
7:DC:84:ARG:NH2	18:MC:42:SER:O	2.35	0.60
7:LC:51:MET:HE1	7:LC:137:GLN:CG	2.29	0.60
7:ED:150:LYS:HE3	7:ED:150:LYS:HA	1.82	0.60
7:MD:36:LYS:HZ3	29:MD:202:PEB:C3B	2.14	0.60
7:MD:124:THR:CA	6:UL:69:PRO:HG2	2.29	0.60
18:ME:287:VAL:HB	5:DI:18:PHE:O	2.01	0.60
4:KF:17:ARG:O	5:LF:95:TYR:OH	2.18	0.60
6:CG:136:ASP:OD1	6:CG:136:ASP:N	2.30	0.60
7:JG:48:ALA:HA	7:JG:51:MET:HB2	1.84	0.60
29:HI:1002:PEB:CMC	4:II:145:GLN:NE2	2.64	0.60
4:KI:100:VAL:CG1	5:LI:27:LEU:HD13	2.31	0.60
6:CJ:122:LEU:HD22	29:CJ:201:PEB:HNA	1.67	0.60
6:uJ:122:LEU:HD22	29:uJ:202:PEB:HNA	1.67	0.60
5:FK:94:SER:O	5:FK:98:ILE:HG13	2.02	0.60
6:SK:49:GLU:O	6:SK:53:LYS:CG	2.49	0.60
6:fK:49:GLU:O	6:fK:53:LYS:CG	2.49	0.60
6:hK:33:ARG:HD2	6:hK:151:GLU:OE2	2.01	0.60
6:IL:122:LEU:HD22	29:IL:201:PEB:HNA	1.67	0.60
7:JL:49:SER:HG	17:yL:48:VAL:N	1.98	0.60
6:mL:38:LEU:HD12	7:nL:28:LYS:HG2	1.84	0.60
6:sL:122:LEU:HD22	29:sL:201:PEB:HNA	1.67	0.60
19:zL:332:LEU:HD22	20:NP:63:PRO:CB	2.29	0.60
17:BM:78:VAL:HG11	7:LM:115:GLU:HG2	1.84	0.60
29:EM:201:PEB:HHC2	7:JM:76:ASN:OD1	2.01	0.60
6:UM:43:LYS:CE	14:MQ:115:TYR:CD2	2.54	0.60
6:IN:17:ARG:NH2	6:IN:18:PHE:O	2.34	0.60
14:MN:236:TYR:HA	14:MN:239:LYS:HZ3	1.66	0.60
21:OP:87:TYR:OH	24:XP:87:LEU:HD13	2.01	0.60
20:TP:105:GLU:HA	20:TP:109:LEU:HB2	1.82	0.60
25:YP:343:PHE:HE1	25:YP:376:LEU:HD21	1.66	0.60
21:fP:60:LEU:CD1	21:fP:72:MET:CE	2.79	0.60
7:HQ:48:ALA:HA	7:HQ:51:MET:HB2	1.84	0.60
6:IQ:2:LYS:NZ	14:MQ:254:VAL:N	2.50	0.60
8:eR:56:ALA:N	8:eR:217:GLU:HB2	2.15	0.60
6:OR:131:ILE:HG22	6:OR:160:ILE:CD1	2.26	0.60
6:UR:137:ARG:HH21	29:UR:202:PEB:CHB	2.15	0.60
3:B1:13:GLN:HB3	3:B1:15:GLN:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:204:ARG:HH11	3:B1:204:ARG:CG	2.14	0.60
5:L1:68:GLN:CG	15:bB:342:TYR:CD2	2.84	0.60
6:b1:135:ARG:CD	6:b1:157:ASP:CG	2.74	0.60
6:f1:49:GLU:O	6:f1:53:LYS:CG	2.49	0.60
6:W2:47:ASN:ND2	29:W2:202:PEB:HMC3	2.17	0.60
6:C3:138:LEU:HD21	6:C3:149:GLY:CA	2.31	0.60
6:L4:18:PHE:CZ	7:M4:91:ARG:HG3	2.34	0.60
7:I5:8:VAL:HA	28:bP:91:GLU:OE2	2.02	0.60
13:k6:234:ASP:HB3	13:k6:237:ILE:HG12	1.83	0.60
5:L7:42:ASN:O	5:L7:46:SER:OG	2.19	0.60
7:I8:74:TYR:CE2	7:JM:111:ASN:OD1	2.54	0.60
7:K8:1:MET:HE3	7:K8:95:TYR:CZ	2.36	0.60
3:B9:169:GLN:HE22	5:J9:77:ARG:HB3	1.65	0.60
6:BD:17:ARG:HG3	6:BD:17:ARG:HH21	1.67	0.60
7:CD:170:ASP:OD1	7:CD:170:ASP:N	2.33	0.60
7:ID:102:ALA:HB1	7:ID:105:LEU:HG	1.84	0.60
7:KD:135:LYS:HZ3	7:KD:169:PHE:HB2	1.66	0.60
6:CG:34:SER:OG	7:DG:31:ILE:HG12	2.01	0.60
6:CG:88:HIS:HA	6:CG:91:ARG:HE	1.65	0.60
6:EG:88:HIS:HA	6:EG:91:ARG:HE	1.65	0.60
7:LG:116:THR:HG22	14:MG:233:ALA:HB1	1.84	0.60
13:kH:32:ASN:HD22	13:kH:32:ASN:N	1.99	0.60
3:BI:222:LEU:HD23	27:aP:63:ARG:CG	2.30	0.60
4:CI:7:GLU:CD	4:MI:22:THR:CG2	2.74	0.60
29:HI:1002:PEB:CMC	4:II:145:GLN:HE21	2.14	0.60
7:HJ:113:LEU:HG	7:HJ:113:LEU:O	2.01	0.60
7:JJ:49:SER:HG	17:yJ:48:VAL:N	1.98	0.60
6:oJ:13:ASP:OD2	7:pJ:108:ARG:HD3	2.02	0.60
5:JK:33:GLU:OE2	5:JK:156:LEU:HD21	2.00	0.60
6:lK:135:ARG:NH1	6:lK:157:ASP:OD2	2.34	0.60
6:CL:122:LEU:HD22	29:CL:201:PEB:HNA	1.67	0.60
6:oL:13:ASP:OD2	7:pL:108:ARG:HD3	2.02	0.60
15:bM:343:PHE:CZ	20:mP:64:ASP:HB3	2.37	0.60
15:bM:343:PHE:HD2	20:mP:67:SER:HG	0.73	0.60
7:FM:58:GLY:O	7:FM:62:GLU:HG2	2.02	0.60
6:GM:137:ARG:HH12	29:GM:202:PEB:C4B	2.13	0.60
6:KN:140:VAL:HG12	6:KN:146:ALA:HA	1.83	0.60
21:FP:14:VAL:HG22	25:YP:666:ASN:HB3	1.82	0.60
21:IP:20:ASP:O	21:IP:24:VAL:HG23	2.01	0.60
21:SP:20:ASP:O	21:SP:24:VAL:HG23	2.01	0.60
25:YP:86:GLU:O	25:YP:89:GLN:NE2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:fP:72:MET:HA	21:fP:77:ARG:HB3	1.83	0.60
21:oP:20:ASP:O	21:oP:24:VAL:HG23	2.01	0.60
21:wP:20:ASP:O	21:wP:24:VAL:HG23	2.02	0.60
22:xP:80:LEU:HD23	22:xP:83:ARG:HE	1.67	0.60
6:KQ:20:SER:OG	6:KQ:21:ASN:N	2.32	0.60
7:VR:33:ASP:OD2	7:VR:36:LYS:HD2	2.02	0.60
7:XR:76:ASN:OD1	7:XR:76:ASN:N	2.30	0.60
7:XR:104:VAL:O	7:XR:108:ARG:HB2	2.01	0.60
5:H1:35:ASN:ND2	29:H1:1002:PEB:HND	1.99	0.60
5:J1:89:VAL:HG23	5:J1:134:MET:HE1	1.84	0.60
4:M1:110:TYR:CD1	5:N1:13:ASP:OD2	2.55	0.60
6:O1:135:ARG:NH1	6:O1:157:ASP:OD1	2.21	0.60
7:D3:38:LEU:O	29:D3:202:PEB:HMD3	2.00	0.60
6:I3:42:GLU:O	6:I3:42:GLU:CG	2.49	0.60
7:K4:41:VAL:HG21	7:K4:98:LEU:HD12	1.83	0.60
7:I5:27:LEU:CD2	19:zL:295:LYS:HA	2.32	0.60
13:k6:285:PRO:O	13:k6:286:MET:O	2.18	0.60
1:X7:115:LEU:HD12	1:X7:118:LYS:HB2	1.83	0.60
7:a7:87:GLU:HA	7:a7:90:LEU:CB	2.32	0.60
7:I8:3:ASP:HB3	7:I8:7:ARG:HH22	1.66	0.60
7:I8:36:LYS:CB	7:I8:161:LEU:HD11	2.32	0.60
14:MA:222:SER:HB3	14:MA:296:ASN:HB3	1.84	0.60
15:bB:215:GLY:O	15:bB:219:ASN:ND2	2.35	0.60
15:bB:349:LYS:HE2	20:KP:68:PRO:CG	2.31	0.60
7:JB:58:GLY:O	7:JB:62:GLU:HG2	2.02	0.60
7:LC:108:ARG:HA	18:MC:209:ASP:O	2.02	0.60
7:GD:82:CYS:HA	29:GD:201:PEB:HHA1	1.84	0.60
7:KD:41:VAL:HG21	7:KD:98:LEU:HD12	1.83	0.60
29:HF:1002:PEB:CMC	4:IF:145:GLN:HE21	2.14	0.60
7:FG:48:ALA:HA	7:FG:51:MET:HB2	1.84	0.60
6:IG:88:HIS:HA	6:IG:91:ARG:HE	1.65	0.60
7:iI:107:ASP:OD1	7:iI:107:ASP:N	2.35	0.60
16:xJ:238:MET:HG2	16:xJ:260:PRO:HB3	1.83	0.60
5:FK:89:VAL:HG23	5:FK:134:MET:HE1	1.84	0.60
5:JK:39:ASP:OD2	29:JK:1002:PEB:HMD1	2.02	0.60
7:VK:159:THR:CA	14:MN:103:ARG:HG3	2.31	0.60
6:hK:49:GLU:O	6:hK:53:LYS:CG	2.49	0.60
6:AL:122:LEU:HD22	29:AL:201:PEB:HNA	1.67	0.60
6:YL:122:LEU:HD22	29:YL:201:PEB:HNA	1.67	0.60
16:wL:238:MET:HG2	16:wL:260:PRO:HB3	1.83	0.60
7:FN:115:GLU:OE2	14:MN:111:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:nP:13:ASP:HB2	22:xP:94:TYR:CE2	2.35	0.60
6:CQ:33:ARG:HA	6:CQ:33:ARG:HE	1.66	0.60
7:DQ:48:ALA:HA	7:DQ:51:MET:HB2	1.84	0.60
6:UR:65:TYR:CE2	6:UR:66:LEU:CD2	2.84	0.60
6:Q2:139:CYS:O	6:Q2:143:ASP:CB	2.49	0.60
7:C4:170:ASP:N	7:C4:170:ASP:OD1	2.33	0.60
12:E5:37:VAL:HG21	7:a9:167:SER:OG	1.95	0.60
3:B7:57:GLU:HA	3:B7:60:ILE:CG1	2.23	0.60
5:F7:114:ARG:CD	5:F7:172:VAL:O	2.50	0.60
6:j7:99:VAL:HG21	7:k7:9:VAL:HG21	1.78	0.60
6:J8:64:ALA:HB3	20:pP:41:GLN:HE22	1.59	0.60
3:B9:225:VAL:CA	3:B9:228:MET:HE1	2.25	0.60
5:H9:78:ARG:NH1	5:H9:78:ARG:HG3	2.16	0.60
7:a9:87:GLU:HA	7:a9:90:LEU:CB	2.32	0.60
6:EA:37:ARG:HD2	6:EA:97:LEU:O	2.01	0.60
17:BB:78:VAL:HG11	7:LB:115:GLU:HG2	1.84	0.60
7:LC:7:ARG:HD2	18:MC:258:THR:HG22	1.83	0.60
18:MC:268:VAL:HG12	7:PF:148:GLU:HA	0.67	0.60
29:CD:202:PEB:HBD1	6:DD:33:ARG:NH1	2.17	0.60
7:GD:150:LYS:HE3	7:GD:150:LYS:HA	1.82	0.60
7:JE:51:MET:HE1	7:JE:137:GLN:CG	2.29	0.60
29:HF:1002:PEB:CMC	4:IF:145:GLN:NE2	2.64	0.60
6:AG:38:LEU:CD2	6:AG:98:VAL:N	2.63	0.60
7:BG:137:GLN:NE2	29:BG:203:PEB:HHA1	2.17	0.60
7:LG:48:ALA:HA	7:LG:51:MET:HB2	1.84	0.60
5:NI:41:VAL:HG11	5:NI:98:ILE:HG22	1.84	0.60
6:aJ:122:LEU:HD22	29:aJ:201:PEB:HNA	1.67	0.60
6:cJ:66:LEU:CD2	6:cJ:72:ALA:HB3	2.29	0.60
6:iJ:122:LEU:HD22	29:iJ:201:PEB:HNA	1.67	0.60
7:tJ:91:ARG:HH21	16:xJ:90:THR:CG2	2.15	0.60
4:EK:155:ASP:CG	5:LK:46:SER:HB2	2.27	0.60
5:JK:47:ASN:CG	5:JK:141:LEU:HD21	2.27	0.60
7:NL:24:LEU:O	7:NL:28:LYS:HG3	2.01	0.60
6:IN:140:VAL:HG12	6:IN:146:ALA:HA	1.83	0.60
6:AO:138:LEU:HD21	6:AO:149:GLY:CA	2.31	0.60
7:NO:87:GLU:O	7:NO:91:ARG:CG	2.50	0.60
21:SP:62:TYR:HB2	27:aP:54:GLN:HE22	1.67	0.60
21:SP:72:MET:HA	21:SP:77:ARG:HB3	1.84	0.60
22:VP:80:LEU:HD23	22:VP:83:ARG:HE	1.67	0.60
27:aP:45:THR:HB	21:uP:14:VAL:HG21	1.82	0.60
20:cP:105:GLU:HA	20:cP:109:LEU:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:eP:15:ALA:HB2	25:1P:492:GLY:HA2	1.83	0.60
21:jP:20:ASP:O	21:jP:24:VAL:HG23	2.01	0.60
27:3P:287:LEU:HD13	27:3P:287:LEU:N	2.17	0.60
7:DQ:136:ALA:CB	29:DQ:203:PEB:O2C	2.50	0.60
6:MR:54:GLU:OE1	29:MR:202:PEB:HMC2	2.01	0.60
6:QR:115:GLU:N	6:QR:115:GLU:OE1	2.33	0.60
6:QR:139:CYS:HG	29:QR:202:PEB:HBA1	1.67	0.60
6:S1:49:GLU:O	6:S1:53:LYS:CG	2.49	0.60
6:b1:49:GLU:O	6:b1:53:LYS:CG	2.49	0.60
6:j1:49:GLU:O	6:j1:53:LYS:CG	2.49	0.60
7:N2:135:LYS:NZ	7:N2:170:ASP:OD1	2.29	0.60
6:Q2:115:GLU:N	6:Q2:115:GLU:OE1	2.33	0.60
7:E4:82:CYS:HA	29:E4:201:PEB:HHA1	1.84	0.60
7:G4:170:ASP:N	7:G4:170:ASP:OD1	2.33	0.60
7:C5:161:LEU:CD1	29:C5:202:PEB:CBA	2.78	0.60
5:J7:42:ASN:O	5:J7:46:SER:OG	2.19	0.60
7:I8:74:TYR:HD1	15:bM:238:ARG:NH1	1.99	0.60
7:L8:79:MET:HE1	13:kH:233:VAL:CG1	2.31	0.60
29:W9:202:PEB:HMA1	8:eR:249:TYR:CD2	2.32	0.60
7:LA:37:ARG:NH1	7:LA:97:LEU:O	2.34	0.60
29:EB:201:PEB:HHC2	7:JB:76:ASN:OD1	2.01	0.60
7:FB:58:GLY:O	7:FB:62:GLU:HG2	2.02	0.60
7:kB:84:ARG:O	7:kB:84:ARG:HG2	2.00	0.60
6:FD:16:GLY:HA2	7:GD:91:ARG:HH12	1.65	0.60
7:ID:136:ALA:CB	29:ID:203:PEB:HBC2	2.32	0.60
7:MD:60:ILE:HG21	7:MD:67:ILE:HD11	1.81	0.60
7:BE:83:LEU:HD11	6:EE:119:THR:HG21	1.84	0.60
5:Nf:41:VAL:HG11	5:Nf:98:ILE:HG22	1.84	0.60
7:BG:48:ALA:HA	7:BG:51:MET:HB2	1.84	0.60
6:GG:114:ARG:HG3	6:IG:114:ARG:NH1	2.17	0.60
7:HG:137:GLN:N	29:HG:203:PEB:O1C	2.35	0.60
29:DI:1002:PEB:CMC	4:MI:145:GLN:NE2	2.65	0.60
5:LI:71:GLY:HA2	27:aP:111:MET:CG	2.32	0.60
6:EJ:122:LEU:HD22	29:EJ:201:PEB:HNA	1.67	0.60
6:MJ:122:LEU:HD22	29:MJ:201:PEB:HNA	1.67	0.60
6:iJ:74:GLU:H	6:iJ:78:LYS:HG3	1.66	0.60
6:sJ:122:LEU:HD22	29:sJ:201:PEB:HNA	1.67	0.60
3:BK:85:LYS:HB2	3:BK:141:ILE:HD12	1.84	0.60
29:IK:202:PEB:NC	29:IK:202:PEB:NB	2.50	0.60
7:HL:105:LEU:O	7:HL:105:LEU:HD23	2.01	0.60
7:HL:133:ILE:C	7:HL:135:LYS:N	2.56	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zL:362:GLY:O	21:LP:62:TYR:CE2	2.51	0.60
7:DM:58:GLY:O	7:DM:62:GLU:HG2	2.02	0.60
28:bP:40:ARG:HH11	28:bP:40:ARG:CG	2.14	0.60
20:rP:15:ALA:HA	21:wP:90:ARG:CZ	2.32	0.60
20:vP:105:GLU:HA	20:vP:109:LEU:HB2	1.82	0.60
7:DQ:136:ALA:CB	29:DQ:203:PEB:CGC	2.70	0.60
29:OR:201:PEB:OD	7:TR:74:TYR:O	2.20	0.60
8:e2:153:GLN:HG3	29:e2:402:PEB:HBD1	1.84	0.59
29:O2:201:PEB:OD	7:T2:74:TYR:O	2.20	0.59
6:U2:138:LEU:HA	29:U2:202:PEB:CMD	2.31	0.59
6:W2:142:ARG:CZ	29:W2:202:PEB:HHA1	2.32	0.59
10:d4:296:TYR:O	5:FF:17:GLU:HA	2.02	0.59
7:I4:58:GLY:H	29:I4:203:PEB:HMD2	1.65	0.59
7:M4:157:ASP:OD1	7:M4:159:THR:N	2.21	0.59
13:k6:261:MET:HG2	6:U7:83:TYR:CE2	1.93	0.59
5:N7:101:ASP:HA	26:2P:97:GLY:HA3	1.84	0.59
29:L8:201:PEB:CBC	13:kH:195:ARG:NH1	2.54	0.59
12:E8:182:ASN:ND2	6:bF:80:ASN:HD22	1.92	0.59
3:B9:20:PHE:CE2	5:J9:84:ARG:HG2	2.36	0.59
5:F9:114:ARG:CD	5:F9:172:VAL:O	2.50	0.59
5:L9:66:LEU:C	5:L9:73:ALA:HB3	2.27	0.59
6:dB:135:ARG:HD2	6:dB:157:ASP:OD1	2.00	0.59
6:BD:17:ARG:HH21	6:BD:17:ARG:CG	2.14	0.59
6:FD:33:ARG:HD3	6:HD:25:GLU:OE1	2.02	0.59
29:DF:1002:PEB:CMC	4:MF:145:GLN:NE2	2.65	0.59
7:BG:137:GLN:HE22	29:BG:203:PEB:HHA1	1.67	0.59
29:BG:201:PEB:HBD1	14:MG:126:SER:HG	1.66	0.59
7:FG:58:GLY:HA2	29:FG:203:PEB:CMD	2.31	0.59
6:uJ:14:ALA:O	16:xJ:74:GLN:CB	2.50	0.59
4:CK:157:ALA:HA	4:CK:160:THR:CG2	2.31	0.59
5:HK:35:ASN:ND2	29:HK:1002:PEB:HND	1.99	0.59
5:LK:89:VAL:HG23	5:LK:134:MET:HE1	1.84	0.59
7:VK:159:THR:CB	14:MN:103:ARG:NE	2.41	0.59
6:bK:49:GLU:O	6:bK:53:LYS:CG	2.49	0.59
6:jK:25:GLU:HG2	6:lK:33:ARG:HG3	1.84	0.59
6:KL:122:LEU:HD22	29:KL:201:PEB:HNA	1.67	0.59
7:LL:26:ALA:HB1	28:bP:228:ILE:CG2	2.32	0.59
7:LL:100:GLY:O	28:bP:227:VAL:CG2	2.50	0.59
6:qL:19:PRO:HB3	7:rL:98:LEU:HD22	1.84	0.59
19:zL:363:ARG:CD	21:LP:62:TYR:C	2.75	0.59
7:BN:151:MET:N	7:BN:151:MET:SD	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HN:151:MET:SD	7:HN:151:MET:N	2.75	0.59
20:CP:107:ILE:HD11	23:WP:173:LEU:HD12	1.84	0.59
25:YP:350:ASN:H	25:YP:410:GLN:HE21	1.49	0.59
20:iP:105:GLU:HA	20:iP:109:LEU:HB2	1.82	0.59
7:JQ:48:ALA:HA	7:JQ:51:MET:HB2	1.84	0.59
3:B1:17:VAL:HB	5:N1:84:ARG:HH21	1.67	0.59
4:E1:5:ILE:HG12	4:E1:27:VAL:HG23	1.83	0.59
10:d4:156:SER:HA	29:E4:201:PEB:CGC	2.31	0.59
7:M4:170:ASP:OD1	7:M4:170:ASP:N	2.33	0.59
2:A7:187:ASP:OD2	2:A7:251:ARG:NH1	2.35	0.59
7:A8:69:PRO:HG3	7:A8:74:TYR:OH	2.00	0.59
4:I9:93:ARG:HH22	5:L9:74:TYR:HH	1.50	0.59
5:L9:42:ASN:O	5:L9:46:SER:OG	2.19	0.59
7:FA:118:ILE:O	14:MA:106:ASP:OD1	2.20	0.59
14:MA:286:SER:O	14:MA:290:LYS:NZ	2.35	0.59
7:BC:83:LEU:HD11	6:EC:119:THR:HG21	1.84	0.59
6:DD:147:GLN:O	6:DD:150:VAL:N	2.29	0.59
6:HD:164:SER:O	6:JD:119:THR:HA	2.02	0.59
6:JD:89:TYR:OH	6:JD:117:TYR:OH	2.20	0.59
7:KD:41:VAL:HG21	7:KD:98:LEU:CD1	2.32	0.59
5:FF:84:ARG:NH1	5:FF:85:ASP:OD1	2.36	0.59
5:FF:148:THR:HG21	29:FF:1002:PEB:C4A	2.32	0.59
7:iF:2:LEU:HD12	7:iF:6:SER:HB2	1.83	0.59
7:DG:61:CYS:SG	29:DG:203:PEB:CAD	2.90	0.59
6:GG:88:HIS:HA	6:GG:91:ARG:HE	1.65	0.59
29:LG:201:PEB:CHC	14:MG:236:TYR:HE2	2.11	0.59
1:XI:347:TYR:CE1	31:FI:1001:CYC:HBB3	2.35	0.59
3:BI:219:ALA:HB2	27:aP:60:ALA:O	2.00	0.59
7:iI:2:LEU:HD12	7:iI:6:SER:HB2	1.83	0.59
6:AJ:122:LEU:HD22	29:AJ:201:PEB:HNA	1.67	0.59
6:IJ:72:ALA:HB1	29:IJ:201:PEB:CMA	2.31	0.59
6:IJ:122:LEU:HD22	29:IJ:201:PEB:HNA	1.67	0.59
7:VJ:155:ALA:HB2	7:NO:66:LEU:CD1	2.27	0.59
4:EK:137:LYS:O	4:EK:140:HIS:CD2	2.55	0.59
7:HL:113:LEU:HG	7:HL:113:LEU:O	2.01	0.59
6:IL:72:ALA:C	29:IL:201:PEB:C1A	2.72	0.59
7:LL:26:ALA:HB1	28:bP:228:ILE:HG23	1.84	0.59
6:ML:122:LEU:HD22	29:ML:201:PEB:HNA	1.67	0.59
16:xL:238:MET:HG2	16:xL:260:PRO:HB3	1.83	0.59
16:xL:253:GLU:O	16:xL:257:ASN:ND2	2.34	0.59
6:EM:91:ARG:NH2	7:JM:74:TYR:OH	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EN:140:VAL:HG12	6:EN:146:ALA:HA	1.83	0.59
6:GN:57:ASP:N	6:GN:57:ASP:OD1	2.32	0.59
14:MN:102:LYS:C	14:MN:103:ARG:CD	2.74	0.59
7:NO:84:ARG:HD2	9:OO:375:ASN:HB3	1.83	0.59
20:GP:105:GLU:HA	20:GP:109:LEU:HB2	1.83	0.59
21:MP:20:ASP:O	21:MP:24:VAL:HG23	2.01	0.59
21:QP:20:ASP:O	21:QP:24:VAL:HG23	2.02	0.59
21:SP:63:SER:CB	27:aP:52:VAL:HB	2.32	0.59
20:TP:127:ALA:HB1	27:aP:250:VAL:HG21	1.83	0.59
27:aP:45:THR:CB	21:uP:14:VAL:HG21	2.31	0.59
21:dP:44:ILE:HG22	20:eP:17:TYR:CE2	2.38	0.59
22:xP:34:GLU:O	22:xP:37:ILE:HG22	2.02	0.59
6:AQ:38:LEU:CD2	6:AQ:98:VAL:N	2.63	0.59
7:BQ:136:ALA:HB3	29:BQ:203:PEB:O2C	2.01	0.59
6:MR:33:ARG:CD	6:MR:151:GLU:OE2	2.49	0.59
1:X1:125:LEU:HG	1:X1:195:TYR:HE1	1.66	0.59
5:H1:89:VAL:HG23	5:H1:134:MET:HE1	1.84	0.59
5:J1:39:ASP:OD2	29:J1:1002:PEB:HMD1	2.02	0.59
5:N1:89:VAL:HG23	5:N1:134:MET:HE1	1.84	0.59
29:d1:202:PEB:NC	29:d1:202:PEB:NB	2.50	0.59
8:e2:57:PHE:HD2	7:T2:84:ARG:NH1	1.99	0.59
8:e2:297:GLY:O	4:E7:93:ARG:NH1	2.35	0.59
6:S2:118:ARG:HH12	6:U2:114:ARG:HE	1.51	0.59
7:F3:79:MET:HG2	29:I3:201:PEB:HAC1	1.85	0.59
6:B4:17:ARG:HH21	6:B4:17:ARG:HG3	1.67	0.59
7:C4:149:ARG:NH2	6:D4:135:ARG:NH2	2.50	0.59
6:H4:34:SER:HB2	6:H4:37:ARG:NH2	2.17	0.59
7:G5:149:ARG:CD	7:k9:150:LYS:HZ1	2.15	0.59
7:I5:23:ASP:HA	7:I5:27:LEU:HD13	1.83	0.59
13:k6:200:LEU:HD11	5:H7:137:ALA:HB2	1.84	0.59
3:B7:205:ARG:HH22	21:QP:62:TYR:H	1.50	0.59
7:T7:38:LEU:HD12	29:T7:202:PEB:OD	2.02	0.59
7:L8:83:LEU:HD22	13:kH:231:ALA:HB3	1.84	0.59
12:E8:162:ASN:C	29:kF:203:PEB:C1C	2.74	0.59
12:E8:162:ASN:C	29:kF:203:PEB:CHB	2.75	0.59
6:AA:140:VAL:HG12	6:AA:146:ALA:HA	1.83	0.59
7:BA:37:ARG:NH1	7:BA:97:LEU:O	2.34	0.59
6:KA:38:LEU:CB	7:LA:24:LEU:HD23	2.25	0.59
6:CB:135:ARG:HD2	6:CB:157:ASP:OD1	1.99	0.59
7:CD:149:ARG:NH2	6:DD:135:ARG:NH2	2.50	0.59
7:ED:65:GLY:O	7:ED:68:SER:OG	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:84:ARG:NH2	14:MG:174:ARG:HH22	2.00	0.59
14:MG:296:ASN:OD1	14:MG:299:ARG:NH2	2.35	0.59
6:YJ:122:LEU:HD22	29:YJ:201:PEB:HNA	1.67	0.59
19:zJ:323:MET:CE	20:pP:48:GLU:HA	2.32	0.59
5:DK:40:ILE:CG1	29:DK:1002:PEB:CBA	2.71	0.59
4:EK:5:ILE:HG12	4:EK:27:VAL:HG23	1.83	0.59
4:GK:20:SER:O	4:GK:24:LEU:HG	2.03	0.59
5:NK:47:ASN:CG	5:NK:141:LEU:HD21	2.27	0.59
6:hK:135:ARG:CD	6:hK:157:ASP:CG	2.74	0.59
6:lK:135:ARG:CD	6:lK:157:ASP:CG	2.74	0.59
7:JL:112:GLY:O	7:JL:116:THR:OG1	2.19	0.59
6:qL:122:LEU:HD22	29:qL:201:PEB:HNA	1.67	0.59
7:FN:151:MET:SD	7:FN:151:MET:N	2.75	0.59
7:LN:151:MET:N	7:LN:151:MET:SD	2.75	0.59
14:MN:286:SER:O	14:MN:290:LYS:NZ	2.35	0.59
21:FP:14:VAL:CG2	25:YP:666:ASN:HB3	2.32	0.59
20:iP:17:TYR:OH	23:yP:92:GLU:OE2	2.12	0.59
21:jP:17:LYS:CE	25:1P:94:GLU:HG2	2.33	0.59
20:vP:31:LEU:HB3	27:3P:152:ALA:HB2	1.83	0.59
25:1P:343:PHE:HE1	25:1P:376:LEU:HD21	1.66	0.59
7:BQ:141:PHE:CE2	29:BQ:203:PEB:CHA	2.85	0.59
7:FQ:48:ALA:HA	7:FQ:51:MET:HB2	1.84	0.59
8:eR:57:PHE:CE1	6:OR:112:GLY:HA2	2.38	0.59
6:OR:107:GLU:O	7:TR:77:ARG:CZ	2.50	0.59
6:OR:161:ASN:O	6:OR:164:SER:OG	2.14	0.59
6:WR:87:ASP:OD1	7:XR:18:TYR:OH	2.19	0.59
5:D1:89:VAL:HG23	5:D1:134:MET:HE1	1.84	0.59
4:E1:2:LYS:HE3	4:K1:22:THR:HG21	1.84	0.59
4:G1:108:ASP:HA	4:G1:112:VAL:HG21	1.85	0.59
29:S1:202:PEB:NC	29:S1:202:PEB:NB	2.50	0.59
7:P2:104:VAL:HG22	7:P2:104:VAL:O	2.03	0.59
6:W2:142:ARG:NH2	29:W2:202:PEB:CHA	2.65	0.59
6:E3:161:ASN:ND2	7:H3:46:SER:O	2.28	0.59
10:d4:129:GLU:CA	7:E4:108:ARG:NH2	2.54	0.59
7:G4:82:CYS:HA	29:G4:201:PEB:HHA1	1.84	0.59
6:H4:100:GLY:O	6:H4:155:TYR:OH	2.21	0.59
7:I4:137:GLN:HB3	29:I4:203:PEB:C3B	2.32	0.59
7:K4:36:LYS:HZ1	29:K4:202:PEB:HBB2	1.68	0.59
7:K4:173:GLY:O	7:K4:177:SER:OG	2.14	0.59
7:C5:77:ARG:CZ	29:C5:201:PEB:O2B	2.50	0.59
6:Z9:17:ARG:O	7:a9:95:TYR:OH	2.13	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EA:45:ALA:O	6:EA:48:HIS:ND1	2.36	0.59
7:JA:151:MET:N	7:JA:151:MET:SD	2.75	0.59
6:aB:119:THR:HG21	7:kB:83:LEU:HD13	1.83	0.59
6:JD:100:GLY:O	6:JD:155:TYR:OH	2.21	0.59
6:AE:25:GLU:OE1	6:CE:33:ARG:HG3	2.03	0.59
1:XF:311:ILE:HB	4:EF:14:ASN:ND2	2.16	0.59
5:DF:103:SER:O	5:DF:107:ASP:CG	2.46	0.59
5:LF:103:SER:O	5:LF:107:ASP:CG	2.46	0.59
4:MF:18:PHE:HB3	5:NF:45:THR:HG23	1.84	0.59
6:AG:88:HIS:HA	6:AG:91:ARG:HE	1.65	0.59
29:BG:201:PEB:CBD	14:MG:126:SER:HG	2.11	0.59
6:KG:1:MET:HE3	7:LG:6:SER:HB2	1.85	0.59
3:BI:210:GLU:CA	27:aP:71:VAL:HG23	2.32	0.59
6:mJ:122:LEU:HD22	29:mJ:201:PEB:HNA	1.67	0.59
4:GK:108:ASP:HA	4:GK:112:VAL:HG21	1.85	0.59
29:dK:202:PEB:NB	29:dK:202:PEB:NC	2.50	0.59
7:PL:33:ASP:OD1	7:PL:36:LYS:CE	2.50	0.59
6:UL:71:GLU:H	6:UL:74:GLU:CG	2.15	0.59
6:aL:44:LEU:HD22	6:aL:152:PHE:CE1	2.38	0.59
6:uL:122:LEU:HD22	29:uL:202:PEB:HNA	1.67	0.59
16:wL:86:CYS:CB	30:wL:305:PUB:HBA1	2.32	0.59
22:VP:138:VAL:HG12	22:VP:146:GLU:HG3	1.85	0.59
21:qP:75:THR:HG21	22:xP:108:GLY:O	2.02	0.59
28:4P:42:ALA:O	28:4P:44:PRO:CD	2.50	0.59
6:GQ:114:ARG:HG3	6:IQ:114:ARG:NH1	2.17	0.59
29:OR:201:PEB:HMC1	7:TR:79:MET:HG3	1.85	0.59
4:M1:94:MET:HG3	4:M1:111:LEU:HG	1.84	0.59
6:W1:157:ASP:OD2	7:a1:46:SER:HB2	2.02	0.59
9:O3:308:TYR:CD2	4:KI:70:PRO:HD3	2.32	0.59
7:E4:173:GLY:O	7:E4:177:SER:OG	2.14	0.59
6:J4:33:ARG:HH22	7:M4:38:LEU:HD13	1.68	0.59
6:J4:89:TYR:OH	6:J4:117:TYR:OH	2.20	0.59
7:K4:41:VAL:HG21	7:K4:98:LEU:CD1	2.32	0.59
7:L5:108:ARG:HD3	4:I7:64:PRO:HG3	1.71	0.59
5:J7:66:LEU:C	5:J7:73:ALA:HB3	2.28	0.59
7:I8:23:ASP:HA	7:I8:27:LEU:HD13	1.83	0.59
7:K8:112:GLY:CA	27:3P:269:LYS:CE	2.73	0.59
5:D9:42:ASN:O	5:D9:46:SER:OG	2.19	0.59
5:H9:78:ARG:HH11	5:H9:78:ARG:CG	2.15	0.59
5:H9:137:ALA:HB2	13:kH:200:LEU:HD11	1.84	0.59
6:EC:21:ASN:ND2	6:GC:155:TYR:OH	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:MD:135:LYS:HZ3	7:MD:169:PHE:HB2	1.67	0.59
5:JF:22:THR:C	27:3P:92:PRO:HG2	2.27	0.59
4:GI:104:THR:HG23	4:GI:107:MET:CG	2.26	0.59
5:NI:84:ARG:NH1	5:NI:85:ASP:OD1	2.36	0.59
6:jI:48:HIS:O	6:jI:52:VAL:HG23	2.02	0.59
6:CJ:72:ALA:CB	29:CJ:201:PEB:HMA2	2.32	0.59
6:IJ:72:ALA:HB1	29:IJ:201:PEB:HMA3	1.83	0.59
6:oJ:108:TRP:CH2	7:pJ:10:VAL:HA	2.35	0.59
6:oJ:122:LEU:HD22	29:oJ:201:PEB:HNA	1.67	0.59
19:zJ:104:ALA:HA	29:zJ:501:PEB:O1C	2.02	0.59
3:BK:54:ILE:O	3:BK:113:ARG:NH1	2.35	0.59
6:bK:135:ARG:NH1	6:bK:157:ASP:OD2	2.34	0.59
7:FL:35:ASN:ND2	29:FL:202:PEB:HBC1	2.18	0.59
6:aL:122:LEU:HD22	29:aL:201:PEB:HNA	1.67	0.59
6:mL:118:ARG:HG2	6:oL:164:SER:HA	1.84	0.59
16:xL:102:ALA:HA	16:xL:105:ARG:NE	2.14	0.59
6:EM:135:ARG:HD2	6:EM:157:ASP:OD1	2.00	0.59
7:FN:75:THR:HG1	6:IN:108:TRP:CD1	2.21	0.59
7:DO:110:LEU:HD11	7:DO:172:VAL:HG23	1.85	0.59
7:HO:84:ARG:NH1	9:OO:107:ASP:OD2	2.36	0.59
7:LO:110:LEU:HD11	7:LO:172:VAL:HG23	1.85	0.59
21:BP:20:ASP:O	21:BP:24:VAL:HG23	2.01	0.59
21:OP:20:ASP:O	21:OP:24:VAL:HG23	2.02	0.59
21:fP:60:LEU:HD13	21:fP:72:MET:CE	2.32	0.59
20:iP:15:ALA:HB2	25:1P:246:GLY:CA	2.33	0.59
7:FQ:136:ALA:C	29:FQ:203:PEB:O1C	2.45	0.59
7:PR:5:PHE:CD1	7:PR:27:LEU:HD22	2.38	0.59
5:F1:94:SER:O	5:F1:98:ILE:HG13	2.02	0.59
7:T2:110:LEU:HD22	7:T2:175:ALA:HB3	1.85	0.59
7:V2:5:PHE:CD1	7:V2:27:LEU:HD22	2.38	0.59
7:J3:110:LEU:HD11	7:J3:172:VAL:HG23	1.85	0.59
10:d4:133:PRO:CB	29:E4:201:PEB:C3D	2.78	0.59
7:K5:1:MET:HE3	7:K5:95:TYR:CZ	2.36	0.59
13:k6:61:ARG:NH1	7:V7:150:LYS:CG	2.65	0.59
13:k6:261:MET:CE	6:U7:83:TYR:HD2	2.11	0.59
2:A7:151:GLU:OE1	2:A7:151:GLU:HA	2.01	0.59
3:B7:121:ASN:ND2	26:2P:52:GLY:N	2.44	0.59
5:F7:22:THR:HA	5:F7:25:ASP:OD2	2.02	0.59
5:H7:150:ILE:CB	7:ZB:159:THR:HG21	2.30	0.59
5:L7:66:LEU:C	5:L7:73:ALA:HB3	2.27	0.59
7:I8:158:CYS:SG	29:I8:202:PEB:C2A	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K8:36:LYS:HB3	7:K8:161:LEU:HD11	1.85	0.59
4:E9:93:ARG:HH22	5:H9:74:TYR:HH	1.49	0.59
5:F9:22:THR:HA	5:F9:25:ASP:OD2	2.02	0.59
7:T9:38:LEU:HD12	29:T9:202:PEB:OD	2.02	0.59
7:DA:151:MET:SD	7:DA:151:MET:N	2.75	0.59
7:HA:151:MET:N	7:HA:151:MET:SD	2.75	0.59
6:KA:45:ALA:O	6:KA:48:HIS:ND1	2.36	0.59
7:ZB:85:ASP:OD2	29:ZB:201:PEB:HHA1	2.03	0.59
6:FD:100:GLY:O	6:FD:155:TYR:OH	2.21	0.59
6:HD:81:LYS:HZ1	29:HD:201:PEB:CHB	2.15	0.59
7:ID:149:ARG:HB2	29:ID:203:PEB:OA	2.01	0.59
6:LD:89:TYR:OH	6:LD:117:TYR:OH	2.21	0.59
3:BF:222:LEU:O	3:BF:225:VAL:HG22	2.03	0.59
5:JF:103:SER:O	5:JF:107:ASP:CG	2.46	0.59
5:NF:103:SER:O	5:NF:107:ASP:CG	2.46	0.59
7:HG:50:CYS:C	29:HG:203:PEB:HAA1	2.22	0.59
13:kH:234:ASP:HB3	13:kH:237:ILE:HG12	1.83	0.59
29:DI:1002:PEB:HMC2	4:MI:145:GLN:HE21	1.65	0.59
5:JI:103:SER:O	5:JI:107:ASP:CG	2.46	0.59
6:QJ:122:LEU:HD22	29:QJ:201:PEB:HNA	1.67	0.59
6:WJ:122:LEU:HD22	29:WJ:202:PEB:HNA	1.67	0.59
6:gJ:122:LEU:HD22	29:gJ:201:PEB:HNA	1.67	0.59
29:IJ:202:PEB:C4D	6:mJ:33:ARG:NH1	2.64	0.59
4:EK:33:ARG:HG3	4:KK:25:GLN:HG2	1.84	0.59
5:NK:89:VAL:HG23	5:NK:134:MET:HE1	1.84	0.59
6:CL:72:ALA:CB	29:CL:201:PEB:HMA2	2.32	0.59
16:wL:102:ALA:HA	16:wL:105:ARG:NE	2.14	0.59
19:zL:361:ARG:HG2	20:NP:77:MET:SD	2.43	0.59
15:bM:204:CYS:HB3	7:FM:111:ASN:O	2.02	0.59
7:FO:110:LEU:HD11	7:FO:172:VAL:HG23	1.85	0.59
22:VP:34:GLU:O	22:VP:37:ILE:HG22	2.02	0.59
21:dP:17:LYS:NZ	23:yP:141:GLU:OE2	2.33	0.59
7:LQ:48:ALA:HA	7:LQ:51:MET:HB2	1.84	0.59
6:MR:139:CYS:HB3	29:MR:202:PEB:CHA	2.10	0.59
7:NR:5:PHE:CD1	7:NR:27:LEU:HD22	2.38	0.59
6:SR:65:TYR:CE2	6:SR:66:LEU:CD2	2.84	0.59
6:WR:142:ARG:HG2	29:WR:202:PEB:HBA3	1.78	0.59
7:XR:5:PHE:CD1	7:XR:27:LEU:HD22	2.38	0.59
5:F1:89:VAL:HG23	5:F1:134:MET:HE1	1.84	0.59
4:G1:20:SER:O	4:G1:24:LEU:HG	2.02	0.59
8:e2:116:GLU:CB	6:U2:15:ALA:O	2.47	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e2:293:THR:HG21	7:T2:135:LYS:HZ1	1.62	0.59
6:O2:33:ARG:HD3	6:O2:151:GLU:OE2	2.03	0.59
7:X2:5:PHE:CD1	7:X2:27:LEU:HD22	2.38	0.59
6:E3:42:GLU:O	6:E3:42:GLU:CG	2.51	0.59
7:L3:110:LEU:HD11	7:L3:172:VAL:HG23	1.85	0.59
6:H4:113:ALA:CA	7:M4:76:ASN:ND2	2.60	0.59
6:H4:113:ALA:HA	7:M4:76:ASN:HD21	1.67	0.59
29:K4:202:PEB:CAD	6:L4:33:ARG:NH1	2.50	0.59
6:L4:147:GLN:O	6:L4:150:VAL:N	2.29	0.59
7:K5:36:LYS:HB3	7:K5:161:LEU:HD11	1.84	0.59
5:H7:78:ARG:CG	5:H7:78:ARG:HH11	2.15	0.59
7:K8:112:GLY:HA2	27:3P:269:LYS:HE2	1.82	0.59
1:X9:324:ASN:HA	4:C9:15:GLN:O	2.02	0.59
4:I9:134:GLN:NE2	13:kH:192:VAL:HG11	2.18	0.59
6:CA:139:CYS:SG	6:CA:142:ARG:NH1	2.76	0.59
6:GA:89:TYR:HH	6:GA:117:TYR:HH	1.50	0.59
6:KA:37:ARG:HD2	6:KA:97:LEU:O	2.02	0.59
18:MC:303:PHE:CB	6:gJ:83:TYR:CD2	2.86	0.59
10:dD:283:ARG:HB2	7:TI:148:GLU:OE2	2.02	0.59
7:ED:36:LYS:HZ3	29:ED:201:PEB:C3B	2.15	0.59
7:ID:141:PHE:HZ	29:ID:203:PEB:HMA3	1.66	0.59
7:MD:82:CYS:HA	29:MD:201:PEB:HHA1	1.84	0.59
7:DE:108:ARG:NH1	18:ME:193:GLU:OE2	2.35	0.59
5:DI:84:ARG:NH1	5:DI:85:ASP:OD1	2.35	0.59
29:FI:1002:PEB:HMC2	4:KI:145:GLN:HG3	1.85	0.59
7:cI:1:MET:HG3	7:cI:104:VAL:CB	2.31	0.59
6:AJ:147:GLN:OE1	29:AJ:203:PEB:HMC2	2.00	0.59
6:IJ:72:ALA:C	29:IJ:201:PEB:C1A	2.72	0.59
6:IJ:76:GLN:OE1	6:IJ:76:GLN:HA	2.03	0.59
6:KJ:122:LEU:HD22	29:KJ:201:PEB:HNA	1.67	0.59
6:OJ:94:ASN:HD22	7:PJ:18:TYR:HB3	1.65	0.59
6:QJ:53:LYS:HB2	6:QJ:53:LYS:NZ	2.16	0.59
6:oJ:25:GLU:OE1	6:qJ:4:VAL:HB	2.03	0.59
16:wJ:86:CYS:CB	30:wJ:305:PUB:HBA1	2.32	0.59
4:CK:3:THR:HB	4:CK:4:PRO:HD3	1.82	0.59
5:HK:89:VAL:HG23	5:HK:134:MET:HE1	1.84	0.59
4:KK:143:SER:OG	29:cL:202:PEB:CMA	2.39	0.59
6:OL:122:LEU:HD22	29:OL:201:PEB:HNA	1.67	0.59
6:gL:158:TYR:OH	6:iL:17:ARG:NH1	2.35	0.59
7:ZM:85:ASP:OD2	29:ZM:201:PEB:HHA1	2.03	0.59
6:jM:53:LYS:HB3	6:jM:53:LYS:NZ	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:FP:20:ASP:O	21:FP:24:VAL:HG23	2.02	0.59
20:GP:45:GLU:CG	21:dP:139:SER:HB2	2.32	0.59
21:fP:60:LEU:HD13	21:fP:72:MET:HE1	1.84	0.59
24:zP:47:THR:O	24:zP:58:LYS:NZ	2.28	0.59
6:CQ:19:PRO:HB3	7:DQ:95:TYR:CE1	2.38	0.59
7:TR:5:PHE:CD1	7:TR:27:LEU:HD22	2.38	0.59
3:B1:17:VAL:HG21	31:N1:1001:CYC:CBA	2.26	0.59
5:J1:17:GLU:HG3	15:bB:333:ARG:CD	2.33	0.59
6:h1:49:GLU:O	6:h1:53:LYS:CD	2.51	0.59
29:l1:202:PEB:NB	29:l1:202:PEB:NC	2.50	0.59
6:O2:65:TYR:CE2	6:O2:66:LEU:CD2	2.84	0.59
29:O2:201:PEB:HMC1	7:T2:79:MET:HG3	1.85	0.59
6:S2:115:GLU:N	6:S2:115:GLU:OE1	2.33	0.59
7:D3:39:ASP:OD1	29:D3:202:PEB:C2D	2.50	0.59
6:I3:140:VAL:N	6:I3:141:PRO:HD2	2.18	0.59
6:K3:138:LEU:HD21	6:K3:149:GLY:CA	2.31	0.59
10:d4:264:LYS:HG2	6:WF:61:ALA:CB	2.32	0.59
6:B4:29:GLY:C	6:B4:32:GLN:NE2	2.60	0.59
6:D4:89:TYR:OH	6:D4:117:TYR:OH	2.21	0.59
6:H4:147:GLN:O	6:H4:150:VAL:N	2.29	0.59
6:H4:164:SER:O	6:J4:119:THR:HA	2.02	0.59
7:I4:36:LYS:HZ3	29:I4:202:PEB:C3B	2.15	0.59
7:I4:97:LEU:CD1	7:I4:165:VAL:CG2	2.59	0.59
7:M4:62:GLU:OE2	7:M4:129:ARG:HD3	2.03	0.59
12:E5:164:VAL:CG2	29:kI:203:PEB:OD	2.50	0.59
13:k6:274:ASP:OD2	6:WB:142:ARG:NH1	2.36	0.59
3:B7:30:ARG:HD2	4:C7:14:ASN:HD21	1.68	0.59
4:E7:108:ASP:OD2	4:K7:17:ARG:NH1	2.35	0.59
5:H7:78:ARG:HG3	5:H7:78:ARG:NH1	2.16	0.59
7:I8:7:ARG:NH2	28:4P:138:LEU:HD21	2.18	0.59
4:G9:143:SER:HB2	6:MM:141:PRO:HG3	1.84	0.59
6:Q9:69:PRO:CD	13:kH:102:TYR:CZ	2.86	0.59
7:FA:75:THR:HG1	6:IA:108:TRP:CD1	2.20	0.59
6:IA:139:CYS:SG	6:IA:142:ARG:NH1	2.76	0.59
6:hB:135:ARG:HD2	6:hB:157:ASP:OD1	1.99	0.59
18:MC:45:PHE:CZ	18:MC:253:ALA:HB1	2.38	0.59
7:CD:36:LYS:HZ3	29:CD:202:PEB:C3B	2.16	0.59
5:JF:22:THR:OG1	27:3P:92:PRO:HB2	2.03	0.59
5:Nf:84:ARG:NH1	5:Nf:85:ASP:OD1	2.36	0.59
7:gF:12:SER:HA	7:gF:15:LYS:HG3	1.85	0.59
7:DG:48:ALA:HA	7:DG:51:MET:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:51:MET:N	29:FG:203:PEB:CAA	2.62	0.59
29:FG:201:PEB:HBB2	14:MG:174:ARG:HH21	1.68	0.59
7:HG:146:ALA:HA	29:HG:203:PEB:HBB2	1.83	0.59
5:LI:84:ARG:NH1	5:LI:85:ASP:OD1	2.35	0.59
7:mI:107:ASP:OD1	7:mI:107:ASP:N	2.24	0.59
6:IJ:137:ARG:NH2	29:IJ:202:PEB:HNC	2.00	0.59
7:PJ:33:ASP:OD1	7:PJ:36:LYS:CE	2.50	0.59
6:SJ:68:ASN:CB	6:SJ:71:GLU:OE2	2.43	0.59
6:UJ:33:ARG:NH2	6:WJ:24:LEU:O	2.36	0.59
6:WJ:73:GLY:H	29:WJ:202:PEB:HMA2	1.68	0.59
6:cJ:122:LEU:HD22	29:cJ:201:PEB:HNA	1.67	0.59
16:xJ:41:ASN:H	16:xJ:41:ASN:ND2	2.00	0.59
4:CK:140:HIS:HE1	4:CK:142:LEU:HB2	1.66	0.59
29:OK:202:PEB:NB	29:OK:202:PEB:NC	2.50	0.59
6:EL:122:LEU:HD22	29:EL:201:PEB:HNA	1.67	0.59
7:HL:5:PHE:CZ	7:HL:31:ILE:CG1	2.81	0.59
6:IL:76:GLN:OE1	6:IL:76:GLN:HA	2.03	0.59
6:YL:147:GLN:CD	29:bL:202:PEB:HMC2	2.27	0.59
7:eM:85:ASP:CG	29:eM:201:PEB:HHC1	2.28	0.59
6:fM:31:ILE:HA	7:gM:31:ILE:HG23	1.85	0.59
6:jM:36:ALA:HB1	6:jM:147:GLN:HB3	1.85	0.59
7:BN:37:ARG:NH1	7:BN:97:LEU:O	2.34	0.59
6:EN:45:ALA:O	6:EN:48:HIS:ND1	2.36	0.59
7:JN:151:MET:N	7:JN:151:MET:SD	2.75	0.59
7:NO:91:ARG:NH2	9:OO:400:VAL:HG21	2.11	0.59
7:NO:107:ASP:OD1	7:NO:108:ARG:N	2.33	0.59
20:GP:15:ALA:HB2	25:YP:246:GLY:C	2.27	0.59
20:JP:20:PRO:CG	20:NP:101:VAL:HG13	2.33	0.59
22:VP:108:GLY:O	22:VP:112:VAL:HB	2.03	0.59
21:kP:20:ASP:O	21:kP:24:VAL:HG23	2.02	0.59
21:nP:27:LEU:HB2	22:xP:37:ILE:HD11	1.84	0.59
21:wP:76:ARG:HD2	25:1P:702:ARG:NH2	2.17	0.59
25:1P:86:GLU:O	25:1P:89:GLN:NE2	2.35	0.59
6:AQ:2:LYS:HA	6:AQ:2:LYS:CE	2.22	0.59
7:FQ:136:ALA:CB	29:FQ:203:PEB:O1C	2.50	0.59
4:C1:2:LYS:HD2	4:C1:2:LYS:O	2.03	0.59
4:E1:67:THR:O	13:k6:109:GLU:HB2	2.03	0.59
7:N2:5:PHE:CD1	7:N2:27:LEU:HD22	2.38	0.59
7:V2:61:CYS:CB	29:V2:203:PEB:HBD2	2.33	0.59
7:L3:116:THR:HG23	9:O3:42:LEU:HD12	1.85	0.59
7:C4:62:GLU:OE2	7:C4:129:ARG:HD3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F4:89:TYR:OH	6:F4:117:TYR:OH	2.21	0.59
7:I4:82:CYS:HA	29:I4:201:PEB:HHA1	1.84	0.59
7:I5:27:LEU:HD12	7:I5:27:LEU:N	2.18	0.59
13:k6:102:TYR:CZ	6:Q7:69:PRO:CD	2.86	0.59
13:k6:192:VAL:HG11	4:I7:134:GLN:NE2	2.18	0.59
3:B7:169:GLN:HE22	5:J7:77:ARG:HB3	1.67	0.59
2:A9:187:ASP:OD2	2:A9:251:ARG:NH1	2.35	0.59
5:H9:150:ILE:CB	7:ZM:159:THR:HG21	2.30	0.59
5:J9:66:LEU:C	5:J9:73:ALA:HB3	2.28	0.59
6:Q9:49:GLU:CG	4:EK:46:GLY:O	2.50	0.59
6:KA:139:CYS:SG	6:KA:142:ARG:NH1	2.76	0.59
6:jB:50:ALA:O	6:jB:54:GLU:OE2	2.20	0.59
18:MC:45:PHE:HE2	18:MC:248:PRO:CB	2.10	0.59
7:GD:62:GLU:OE2	7:GD:129:ARG:HD3	2.03	0.59
6:JD:33:ARG:HH22	7:MD:38:LEU:HD13	1.68	0.59
4:GF:100:VAL:HG11	5:HF:27:LEU:CD1	2.33	0.59
5:JF:18:PHE:CE2	27:3P:98:GLN:HG3	2.36	0.59
5:LF:68:GLN:NE2	27:3P:110:SER:HA	2.17	0.59
7:cF:12:SER:HA	7:cF:15:LYS:HG3	1.85	0.59
6:CG:33:ARG:HE	6:CG:33:ARG:HA	1.66	0.59
6:EG:14:ALA:HB1	14:MG:189:LYS:CD	2.32	0.59
1:XI:311:ILE:HB	4:EI:14:ASN:ND2	2.16	0.59
3:BI:229:GLY:N	3:BI:230:PRO:CD	2.66	0.59
5:DI:103:SER:O	5:DI:107:ASP:CG	2.46	0.59
5:FI:148:THR:HG21	29:FI:1002:PEB:C4A	2.32	0.59
5:JI:84:ARG:NH1	5:JI:85:ASP:OD1	2.36	0.59
6:OI:17:ARG:O	7:PI:95:TYR:OH	2.17	0.59
7:FJ:127:SER:OG	29:FJ:201:PEB:CMA	2.50	0.59
6:KJ:47:ASN:HD21	29:KJ:202:PEB:HMC1	1.65	0.59
6:qJ:19:PRO:HB3	7:rJ:98:LEU:HD22	1.84	0.59
29:tJ:201:PEB:C3D	16:xJ:220:TYR:CE2	2.86	0.59
5:JK:17:GLU:OE1	15:bM:333:ARG:HD2	2.02	0.59
5:NK:38:LEU:HD12	29:NK:1002:PEB:C4D	2.33	0.59
7:VK:170:ASP:CB	14:MN:97:PHE:CB	2.73	0.59
29:WK:202:PEB:NC	29:WK:202:PEB:NB	2.50	0.59
6:ZK:54:GLU:OE2	29:ZK:203:PEB:HAC1	2.03	0.59
6:QL:53:LYS:HB2	6:QL:53:LYS:HZ3	1.68	0.59
6:UM:54:GLU:OE1	29:MQ:401:PEB:CAC	2.51	0.59
6:aM:119:THR:HG21	7:kM:83:LEU:HD13	1.83	0.59
6:CN:140:VAL:HG12	6:CN:146:ALA:HA	1.83	0.59
6:IO:140:VAL:N	6:IO:141:PRO:HD2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:RP:72:ALA:HA	20:RP:77:MET:HB3	1.85	0.59
22:VP:28:SER:O	22:VP:32:THR:HG23	2.03	0.59
25:YP:698:VAL:HG21	25:YP:702:ARG:CZ	2.33	0.59
20:mP:72:ALA:HA	20:mP:77:MET:HB3	1.85	0.59
7:BQ:141:PHE:HE2	29:BQ:203:PEB:CHA	2.15	0.59
6:IQ:2:LYS:CE	14:MQ:254:VAL:HG13	2.33	0.59
6:KQ:1:MET:HE3	7:LQ:6:SER:HB2	1.85	0.59
7:PR:84:ARG:HD3	7:PR:88:ILE:HD11	1.84	0.59
4:I1:3:THR:CG2	4:I1:101:VAL:HB	2.33	0.59
29:W1:202:PEB:NB	29:W1:202:PEB:NC	2.50	0.59
6:j1:49:GLU:O	6:j1:53:LYS:CD	2.51	0.59
6:O2:107:GLU:O	7:T2:77:ARG:CZ	2.50	0.59
7:H3:84:ARG:NH1	9:O3:107:ASP:OD2	2.36	0.59
6:F4:100:GLY:O	6:F4:155:TYR:OH	2.21	0.59
7:I4:170:ASP:N	7:I4:170:ASP:OD1	2.33	0.59
7:K4:82:CYS:HA	29:K4:201:PEB:HHA1	1.84	0.59
5:F7:65:GLN:HE22	7:R7:70:GLY:HA3	1.67	0.59
7:I8:27:LEU:HB3	19:zJ:294:GLY:CA	2.32	0.59
7:L8:108:ARG:NH1	4:I9:62:LYS:O	2.36	0.59
7:FA:151:MET:N	7:FA:151:MET:SD	2.75	0.59
6:GA:45:ALA:O	6:GA:48:HIS:ND1	2.36	0.59
6:KA:140:VAL:HG12	6:KA:146:ALA:HA	1.83	0.59
6:IB:56:GLY:HA3	6:IB:83:TYR:CE2	2.38	0.59
6:BD:100:GLY:O	6:BD:155:TYR:OH	2.21	0.59
7:CD:62:GLU:OE2	7:CD:129:ARG:HD3	2.03	0.59
7:CD:82:CYS:HA	29:CD:201:PEB:HHA1	1.84	0.59
7:ID:54:ASP:OD2	29:ID:203:PEB:HHA1	2.03	0.59
7:ID:170:ASP:N	7:ID:170:ASP:OD1	2.33	0.59
7:MD:62:GLU:OE2	7:MD:129:ARG:HD3	2.03	0.59
7:DE:51:MET:HE1	7:DE:137:GLN:CG	2.30	0.59
2:AF:39:SER:O	7:RF:91:ARG:NH2	2.36	0.59
5:JF:84:ARG:NH1	5:JF:85:ASP:OD1	2.36	0.59
7:FG:47:ASN:HB3	29:FG:203:PEB:CMA	2.29	0.59
5:HI:84:ARG:NH1	5:HI:85:ASP:OD1	2.36	0.59
5:JI:135:LYS:HZ2	27:aP:67:GLY:HA2	1.66	0.59
6:WI:9:VAL:CG2	7:YI:1:MET:CE	2.69	0.59
7:gI:12:SER:HA	7:gI:15:LYS:HG3	1.85	0.59
7:nJ:77:ARG:NH1	16:xJ:99:ARG:HH22	2.01	0.59
5:JK:11:GLN:HB2	15:bM:333:ARG:HH21	1.65	0.59
4:MK:94:MET:HG3	4:MK:111:LEU:HG	1.84	0.59
7:gK:7:ARG:NH1	14:MN:96:LYS:HZ1	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:gK:7:ARG:HH11	14:MN:96:LYS:NZ	1.98	0.59
29:IL:202:PEB:C4D	6:mL:33:ARG:NH1	2.64	0.59
6:IM:54:GLU:HG3	29:IM:202:PEB:CAC	2.20	0.59
7:NM:170:ASP:HB3	28:4P:183:GLY:C	2.28	0.59
7:DN:151:MET:SD	7:DN:151:MET:N	2.75	0.59
23:WP:129:ILE:O	23:WP:133:ILE:HG13	2.03	0.59
7:DQ:140:ALA:HB3	29:DQ:203:PEB:HMB2	1.85	0.59
7:LQ:58:GLY:O	29:LQ:202:PEB:CMC	2.51	0.59
14:MQ:225:ARG:NH2	29:MQ:403:PEB:O1C	2.36	0.59
14:MQ:296:ASN:OD1	14:MQ:299:ARG:NH2	2.35	0.59
6:WR:138:LEU:CD1	6:WR:143:ASP:OD2	2.45	0.59
3:B1:85:LYS:HB2	3:B1:141:ILE:HD12	1.84	0.58
6:O1:33:ARG:HG3	6:Q1:25:GLU:HG2	1.85	0.58
29:U1:203:PEB:NB	29:U1:203:PEB:NC	2.50	0.58
29:f1:202:PEB:NC	29:f1:202:PEB:NB	2.50	0.58
29:h1:202:PEB:NB	29:h1:202:PEB:NC	2.50	0.58
7:R2:5:PHE:CD1	7:R2:27:LEU:HD22	2.38	0.58
7:K4:46:SER:C	6:L4:161:ASN:HD21	2.10	0.58
7:M4:82:CYS:HA	29:M4:201:PEB:HHA1	1.84	0.58
12:E5:173:PHE:CE2	6:ZI:83:TYR:CD2	2.91	0.58
4:E9:122:PHE:CZ	31:E9:1001:CYC:HAA1	2.37	0.58
6:CA:140:VAL:HG12	6:CA:146:ALA:HA	1.83	0.58
6:EA:140:VAL:HG12	6:EA:146:ALA:HA	1.83	0.58
6:GA:139:CYS:SG	6:GA:142:ARG:NH1	2.76	0.58
6:IA:140:VAL:HG12	6:IA:146:ALA:HA	1.83	0.58
6:EB:91:ARG:NH2	7:JB:74:TYR:OH	2.35	0.58
7:DC:116:THR:O	7:DC:120:LEU:HB2	2.04	0.58
18:MC:196:ASP:O	18:MC:237:PHE:HZ	1.86	0.58
7:ED:170:ASP:OD1	7:ED:170:ASP:N	2.33	0.58
7:KD:170:ASP:N	7:KD:170:ASP:OD1	2.33	0.58
18:ME:236:ASP:CA	29:SI:202:PEB:C1A	2.80	0.58
18:ME:268:VAL:HG13	7:PI:148:GLU:CA	2.18	0.58
18:ME:271:ARG:NH2	7:PI:144:ASN:O	2.35	0.58
1:XF:347:TYR:CE1	31:FF:1001:CYC:HBB3	2.35	0.58
4:CF:7:GLU:CD	4:MF:22:THR:CG2	2.74	0.58
5:HF:136:ASP:OD1	5:HF:136:ASP:O	2.21	0.58
6:jF:48:HIS:O	6:jF:52:VAL:HG23	2.02	0.58
7:mF:12:SER:HA	7:mF:15:LYS:HG3	1.85	0.58
7:FG:59:MET:O	7:FG:62:GLU:HG2	2.03	0.58
14:MG:225:ARG:NH2	29:MG:401:PEB:O1C	2.36	0.58
5:NI:103:SER:O	5:NI:107:ASP:CG	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:eI:12:SER:HA	7:eI:15:LYS:HG3	1.85	0.58
7:eI:107:ASP:OD1	7:eI:107:ASP:N	2.35	0.58
7:iI:12:SER:HA	7:iI:15:LYS:HG3	1.85	0.58
6:KJ:47:ASN:ND2	29:KJ:202:PEB:C4D	2.58	0.58
6:UJ:71:GLU:H	6:UJ:74:GLU:CG	2.15	0.58
6:kJ:112:GLY:H	16:xJ:209:GLU:HG2	1.67	0.58
29:lJ:201:PEB:CAC	16:xJ:251:TYR:OH	2.48	0.58
16:wJ:47:ARG:HE	16:wJ:48:MET:H	1.51	0.58
16:wJ:212:ARG:HH21	16:xJ:44:PHE:HB2	1.68	0.58
19:zJ:366:ARG:CD	21:nP:62:TYR:HD2	2.05	0.58
5:JK:89:VAL:HG23	5:JK:134:MET:HE1	1.84	0.58
5:LK:62:GLU:OE2	5:LK:129:VAL:HG11	2.03	0.58
4:MK:3:THR:CG2	4:MK:101:VAL:HB	2.33	0.58
29:fK:202:PEB:NB	29:fK:202:PEB:NC	2.50	0.58
7:fL:107:ASP:CB	16:wL:140:LYS:NZ	2.65	0.58
6:oL:25:GLU:OE1	6:qL:4:VAL:HB	2.03	0.58
6:oL:91:ARG:NH1	7:pL:16:ALA:HA	2.18	0.58
6:GN:96:CYS:HA	6:GN:99:VAL:HG22	1.85	0.58
6:EO:161:ASN:ND2	7:HO:46:SER:O	2.28	0.58
7:FO:79:MET:HG2	29:IO:201:PEB:HAC1	1.85	0.58
6:IO:139:CYS:HB3	29:IO:202:PEB:CBA	2.33	0.58
20:KP:90:ARG:CZ	21:OP:16:GLY:HA2	2.32	0.58
20:NP:106:GLU:HG2	24:XP:62:VAL:HG21	1.83	0.58
20:rP:105:GLU:HA	20:rP:109:LEU:HB2	1.82	0.58
22:xP:138:VAL:HG12	22:xP:146:GLU:HG3	1.85	0.58
25:1P:43:LEU:O	25:1P:47:LEU:HG	2.03	0.58
25:1P:350:ASN:H	25:1P:410:GLN:HE21	1.49	0.58
7:RR:5:PHE:CD1	7:RR:27:LEU:HD22	2.38	0.58
5:N1:47:ASN:OD1	5:N1:141:LEU:CD2	2.51	0.58
29:O1:202:PEB:NB	29:O1:202:PEB:NC	2.50	0.58
6:f1:49:GLU:O	6:f1:53:LYS:CD	2.51	0.58
6:S2:118:ARG:HD3	6:U2:114:ARG:NH1	2.18	0.58
7:T2:137:GLN:OE1	29:T2:203:PEB:HHA1	2.03	0.58
6:U2:138:LEU:CA	29:U2:202:PEB:CMD	2.80	0.58
7:D3:145:THR:HG23	7:D3:145:THR:O	2.02	0.58
10:d4:298:TYR:HE2	5:FF:15:ARG:HG3	1.68	0.58
7:C4:82:CYS:HA	29:C4:201:PEB:HHA1	1.84	0.58
7:I4:62:GLU:OE2	7:I4:129:ARG:HD3	2.03	0.58
6:L4:89:TYR:OH	6:L4:117:TYR:OH	2.21	0.58
1:X7:263:THR:C	5:D7:115:GLU:OE2	2.46	0.58
3:B9:209:GLN:HB3	27:aP:55:TYR:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EA:91:ARG:HD3	7:FA:18:TYR:CE2	2.38	0.58
6:KA:96:CYS:HA	6:KA:99:VAL:HG22	1.85	0.58
6:EB:135:ARG:HD2	6:EB:157:ASP:OD1	2.00	0.58
6:UB:54:GLU:OE1	29:UB:202:PEB:CAC	2.51	0.58
7:eB:85:ASP:CG	29:eB:201:PEB:HHC1	2.28	0.58
6:fB:31:ILE:HA	7:gB:31:ILE:HG23	1.85	0.58
7:DC:51:MET:HE1	7:DC:137:GLN:CG	2.30	0.58
18:MC:261:VAL:HG22	6:SF:68:ASN:OD1	2.03	0.58
10:dD:133:PRO:HB2	29:dD:401:PEB:C4D	2.31	0.58
6:LD:81:LYS:HZ1	29:LD:201:PEB:C1C	2.16	0.58
29:FF:1002:PEB:HMC2	4:KF:145:GLN:HG3	1.85	0.58
4:GF:145:GLN:HE21	29:JF:1002:PEB:CMC	2.16	0.58
5:HI:136:ASP:OD1	5:HI:136:ASP:O	2.21	0.58
7:RI:12:SER:HA	7:RI:15:LYS:HG3	1.85	0.58
6:IJ:73:GLY:HA2	6:IJ:78:LYS:HB3	1.85	0.58
7:TJ:25:GLN:CD	25:YP:521:THR:CG2	2.52	0.58
6:uJ:111:ALA:HB1	16:xJ:96:GLU:CG	2.33	0.58
5:DK:36:GLN:O	5:DK:40:ILE:HG13	2.03	0.58
6:OK:33:ARG:HG3	6:QK:25:GLU:HG2	1.85	0.58
6:SK:49:GLU:O	6:SK:53:LYS:CD	2.51	0.58
6:SK:98:VAL:HG21	7:TK:19:VAL:HG21	1.85	0.58
29:SK:202:PEB:NB	29:SK:202:PEB:NC	2.50	0.58
6:jK:49:GLU:O	6:jK:53:LYS:CD	2.51	0.58
7:HL:72:MEN:O	7:HL:78:ARG:HB3	2.02	0.58
6:kL:114:ARG:NH2	16:xL:210:ILE:HD11	2.18	0.58
16:wL:183:LYS:HE3	16:xL:41:ASN:N	2.14	0.58
6:MM:54:GLU:OE1	29:MM:202:PEB:CAC	2.51	0.58
6:YM:54:GLU:OE1	29:YM:203:PEB:CAC	2.52	0.58
6:IM:67:LYS:CD	6:OR:145:SER:HA	2.33	0.58
6:CN:96:CYS:HA	6:CN:99:VAL:HG22	1.85	0.58
6:IN:25:GLU:CD	6:KN:33:ARG:HG3	2.28	0.58
6:IN:43:LYS:HE2	6:IN:144:MET:HB3	1.86	0.58
6:KN:96:CYS:HA	6:KN:99:VAL:HG22	1.85	0.58
14:MN:199:GLU:HA	14:MN:202:PHE:HB2	1.85	0.58
7:LO:120:LEU:HD22	29:LO:201:PEB:HBB1	1.86	0.58
27:aP:48:THR:HA	21:sP:64:ASP:OD2	2.02	0.58
27:aP:59:LYS:HG2	21:sP:67:ARG:HD3	1.85	0.58
20:cP:30:VAL:HG11	21:hP:34:GLY:HA3	1.84	0.58
20:eP:72:ALA:HA	20:eP:77:MET:HB3	1.85	0.58
20:rP:113:LYS:HB3	26:2P:154:GLU:HG3	1.84	0.58
21:sP:27:LEU:HD13	20:tP:97:ILE:CG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MQ:256:THR:O	14:MQ:258:SER:N	2.34	0.58
7:PR:104:VAL:HG22	7:PR:104:VAL:O	2.03	0.58
5:J1:47:ASN:CG	5:J1:141:LEU:HD21	2.27	0.58
10:d4:155:VAL:C	29:E4:201:PEB:O1C	2.46	0.58
6:B4:34:SER:HB2	6:B4:37:ARG:NH2	2.18	0.58
6:D4:147:GLN:O	6:D4:150:VAL:N	2.29	0.58
7:I5:158:CYS:SG	29:I5:202:PEB:C2A	2.91	0.58
1:X7:324:ASN:HA	4:C7:15:GLN:O	2.02	0.58
3:B9:85:LYS:HD2	3:B9:141:ILE:HG23	1.85	0.58
5:L9:125:SER:HB2	27:3P:284:VAL:HG11	1.85	0.58
6:AA:139:CYS:SG	6:AA:142:ARG:NH1	2.76	0.58
7:BA:151:MET:SD	7:BA:151:MET:N	2.75	0.58
7:HA:37:ARG:NH1	7:HA:97:LEU:O	2.34	0.58
6:IA:45:ALA:O	6:IA:48:HIS:ND1	2.36	0.58
6:KA:43:LYS:HE2	6:KA:144:MET:HB3	1.86	0.58
6:EB:20:SER:OG	6:EB:21:ASN:N	2.37	0.58
6:UB:142:ARG:HD2	14:MG:112:LEU:CA	2.33	0.58
6:YB:20:SER:OG	6:YB:21:ASN:N	2.37	0.58
6:aB:135:ARG:HD2	6:aB:157:ASP:OD1	2.00	0.58
6:fB:135:ARG:HD2	6:fB:157:ASP:OD1	1.99	0.58
6:lB:28:GLN:O	6:lB:32:GLN:NE2	2.37	0.58
6:CC:33:ARG:NH1	6:CC:147:GLN:HE22	2.00	0.58
7:LC:116:THR:O	7:LC:120:LEU:HB2	2.04	0.58
6:BD:9:VAL:HG13	7:CD:95:TYR:HE1	1.60	0.58
6:HD:89:TYR:OH	6:HD:117:TYR:OH	2.21	0.58
7:ID:97:LEU:CD1	7:ID:165:VAL:CG2	2.59	0.58
7:ID:173:GLY:O	7:ID:177:SER:OG	2.14	0.58
6:EE:21:ASN:ND2	6:GE:155:TYR:OH	2.36	0.58
7:LE:116:THR:O	7:LE:120:LEU:HB2	2.04	0.58
18:ME:144:ARG:CG	18:ME:145:ASP:H	2.13	0.58
3:BF:204:ARG:NH2	21:uP:57:ALA:HB1	2.18	0.58
5:HF:84:ARG:NH1	5:HF:85:ASP:OD1	2.36	0.58
6:CG:2:LYS:HZ3	14:MG:139:GLY:HA3	1.64	0.58
7:FG:57:SER:HA	7:FG:60:ILE:HG22	1.86	0.58
7:HG:48:ALA:HA	7:HG:51:MET:HB2	1.84	0.58
13:kH:128:ILE:HG22	13:kH:128:ILE:O	2.03	0.58
13:kH:274:ASP:OD2	6:WM:142:ARG:NH1	2.36	0.58
4:GI:104:THR:CG2	4:GI:107:MET:HG2	2.30	0.58
5:JI:166:ARG:NH2	27:aP:86:LYS:NZ	2.51	0.58
4:MI:18:PHE:HB3	5:NI:45:THR:HG23	1.84	0.58
7:PI:12:SER:HA	7:PI:15:LYS:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cI:12:SER:HA	7:cI:15:LYS:HG3	1.85	0.58
6:mJ:38:LEU:HD12	7:nJ:28:LYS:HG2	1.84	0.58
6:qJ:122:LEU:HD22	29:qJ:201:PEB:HNA	1.67	0.58
19:zJ:340:PHE:CD1	20:EP:67:SER:CB	2.86	0.58
4:CK:93:ARG:NH2	5:FK:74:TYR:OH	2.28	0.58
6:WK:157:ASP:OD2	7:aK:46:SER:HB2	2.02	0.58
6:ZK:52:VAL:HG13	6:ZK:86:VAL:CG1	2.28	0.58
7:FL:127:SER:OG	29:FL:201:PEB:CMA	2.50	0.58
6:QL:122:LEU:HD22	29:QL:201:PEB:HNA	1.67	0.58
15:bM:384:LEU:HD23	7:FM:125:ASN:ND2	2.12	0.58
16:AM:146:PRO:CD	16:AM:147:LYS:N	2.65	0.58
6:EM:28:GLN:O	6:EM:32:GLN:NE2	2.37	0.58
6:OM:28:GLN:O	6:OM:32:GLN:NE2	2.37	0.58
6:fM:54:GLU:OE1	29:fM:202:PEB:CAC	2.51	0.58
6:jM:28:GLN:O	6:jM:32:GLN:NE2	2.37	0.58
6:lM:28:GLN:O	6:lM:32:GLN:NE2	2.37	0.58
6:lM:56:GLY:HA3	6:lM:83:TYR:CE2	2.38	0.58
6:GN:43:LYS:HE2	6:GN:144:MET:HB3	1.85	0.58
6:IN:139:CYS:SG	6:IN:142:ARG:NH1	2.76	0.58
6:IN:140:VAL:HG13	6:IN:149:GLY:HA3	1.86	0.58
6:KN:139:CYS:SG	6:KN:142:ARG:NH1	2.76	0.58
7:JO:110:LEU:HD11	7:JO:172:VAL:HG23	1.85	0.58
20:PP:72:ALA:HA	20:PP:77:MET:HB3	1.85	0.58
20:RP:14:GLU:HA	25:YP:708:PHE:HZ	1.68	0.58
20:TP:161:GLN:HB3	27:aP:175:THR:HG21	1.84	0.58
28:bP:189:ARG:HB3	28:bP:202:ALA:HB3	1.85	0.58
20:cP:72:ALA:HA	20:cP:77:MET:HB3	1.85	0.58
7:DQ:141:PHE:CE1	29:DQ:203:PEB:HMA3	2.37	0.58
7:FQ:58:GLY:HA2	29:FQ:203:PEB:C2D	2.33	0.58
6:SR:118:ARG:HD3	6:UR:114:ARG:NH1	2.18	0.58
3:B1:207:ARG:NH1	3:B1:208:PRO:O	2.36	0.58
5:N1:47:ASN:CG	5:N1:141:LEU:HD21	2.27	0.58
6:Z1:49:GLU:O	6:Z1:53:LYS:HE3	2.03	0.58
7:T2:5:PHE:CD1	7:T2:27:LEU:HD22	2.38	0.58
6:U2:142:ARG:NH2	29:U2:202:PEB:C1B	2.66	0.58
6:A3:42:GLU:CD	7:B3:24:LEU:HD12	2.29	0.58
7:J3:120:LEU:HD22	29:J3:201:PEB:HBB1	1.86	0.58
7:G4:106:GLU:HA	7:G4:110:LEU:HB2	1.86	0.58
7:I4:58:GLY:N	29:I4:203:PEB:HMD2	2.19	0.58
6:J4:100:GLY:O	6:J4:155:TYR:OH	2.21	0.58
7:K4:160:SER:O	7:K4:164:GLU:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:100:GLY:O	6:L4:155:TYR:OH	2.21	0.58
7:M4:36:LYS:HZ3	29:M4:202:PEB:C3B	2.16	0.58
7:I5:36:LYS:CB	7:I5:161:LEU:HD11	2.32	0.58
7:I5:53:SER:O	7:I5:57:SER:OG	2.22	0.58
7:B8:108:ARG:CD	18:ME:266:GLY:C	2.77	0.58
7:A8:53:SER:O	7:A8:57:SER:OG	2.22	0.58
6:W9:99:VAL:HG21	7:Y9:9:VAL:HG21	1.85	0.58
6:CA:43:LYS:HE2	6:CA:144:MET:HB3	1.86	0.58
7:FA:115:GLU:OE2	14:MA:111:ARG:HG3	2.02	0.58
6:MB:20:SER:OG	6:MB:21:ASN:N	2.37	0.58
6:SB:20:SER:OG	6:SB:21:ASN:N	2.37	0.58
6:dB:20:SER:OG	6:dB:21:ASN:N	2.37	0.58
6:fB:28:GLN:O	6:fB:32:GLN:NE2	2.37	0.58
18:MC:217:SER:CB	18:MC:223:ARG:HB3	2.34	0.58
18:MC:234:GLU:HA	18:MC:237:PHE:HD2	1.69	0.58
6:DD:89:TYR:OH	6:DD:117:TYR:OH	2.21	0.58
6:FD:4:VAL:O	6:FD:8:VAL:HG13	2.04	0.58
6:FD:89:TYR:OH	6:FD:117:TYR:OH	2.20	0.58
6:HD:70:GLY:N	6:HD:74:GLU:OE1	2.37	0.58
7:MD:132:SER:HA	7:MD:135:LYS:HB2	1.85	0.58
6:AE:25:GLU:CD	6:CE:33:ARG:HG3	2.28	0.58
7:gF:1:MET:C	7:gF:2:LEU:HD12	2.28	0.58
7:FG:84:ARG:NH2	14:MG:174:ARG:NH2	2.51	0.58
6:KG:136:ASP:OD1	6:KG:136:ASP:N	2.30	0.58
13:kH:22:ILE:HG13	13:kH:23:ALA:N	2.18	0.58
13:kH:104:GLN:HE22	4:EK:77:SER:CB	2.14	0.58
5:JI:26:ALA:CB	27:aP:91:VAL:CG1	2.68	0.58
5:LI:103:SER:O	5:LI:107:ASP:CG	2.46	0.58
7:mI:12:SER:HA	7:mI:15:LYS:HG3	1.85	0.58
6:AJ:137:ARG:NH2	29:AJ:202:PEB:CGB	2.66	0.58
6:SJ:75:ASN:OD1	6:SJ:78:LYS:HG2	2.04	0.58
6:UJ:76:GLN:HG3	6:UJ:80:ASN:HD21	1.68	0.58
7:VK:159:THR:C	14:MN:103:ARG:CG	2.77	0.58
6:WK:48:HIS:O	6:WK:52:VAL:CG2	2.42	0.58
7:NL:114:LYS:CG	7:NL:176:ILE:CA	2.80	0.58
6:WL:75:ASN:OD1	6:WL:78:LYS:HG2	2.04	0.58
6:WL:122:LEU:HD22	29:WL:202:PEB:HNA	1.67	0.58
6:iL:74:GLU:H	6:iL:78:LYS:HG3	1.66	0.58
6:mL:3:SER:OG	7:nL:3:ASP:OD2	2.17	0.58
6:mL:122:LEU:HD22	29:mL:201:PEB:HNA	1.67	0.58
16:wL:39:LEU:HD21	17:yL:200:PHE:CD1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CM:28:GLN:O	6:CM:32:GLN:NE2	2.37	0.58
6:GM:28:GLN:O	6:GM:32:GLN:NE2	2.37	0.58
7:HM:129:ARG:HD3	7:VM:15:LYS:HE2	1.85	0.58
6:KM:20:SER:OG	6:KM:21:ASN:N	2.36	0.58
6:AN:37:ARG:CD	6:AN:97:LEU:O	2.52	0.58
6:CN:45:ALA:O	6:CN:48:HIS:ND1	2.36	0.58
6:EN:43:LYS:HE2	6:EN:144:MET:HB3	1.86	0.58
6:EN:91:ARG:HD3	7:FN:18:TYR:CE2	2.38	0.58
6:IN:45:ALA:O	6:IN:48:HIS:ND1	2.36	0.58
21:HP:20:ASP:O	21:HP:24:VAL:HG23	2.02	0.58
20:JP:72:ALA:HA	20:JP:77:MET:HB3	1.85	0.58
25:YP:43:LEU:O	25:YP:47:LEU:HG	2.03	0.58
6:CQ:2:LYS:HZ2	14:MQ:139:GLY:N	2.01	0.58
8:eR:75:MET:HE2	29:NR:201:PEB:HBD1	1.86	0.58
6:MR:26:SER:HB3	6:OR:26:SER:HB3	1.85	0.58
7:PR:137:GLN:OE1	29:PR:202:PEB:HHA1	2.03	0.58
6:UR:17:ARG:NH2	6:WR:2:LYS:HZ2	1.98	0.58
7:VR:5:PHE:CD1	7:VR:27:LEU:HD22	2.38	0.58
7:VR:61:CYS:CB	29:VR:203:PEB:HBD2	2.33	0.58
6:WR:142:ARG:CG	29:WR:202:PEB:HBA1	2.29	0.58
1:X1:146:ARG:NH2	1:X1:245:ASP:O	2.37	0.58
3:B1:205:ARG:HE	20:JP:52:LYS:NZ	1.97	0.58
3:B1:207:ARG:HH11	3:B1:211:GLN:HB2	1.68	0.58
5:J1:47:ASN:OD1	5:J1:141:LEU:CD2	2.52	0.58
6:j1:25:GLU:HG2	6:l1:33:ARG:HG3	1.84	0.58
8:e2:148:LEU:HD12	7:X2:108:ARG:NH2	2.11	0.58
6:O2:142:ARG:CB	6:lB:76:GLN:CD	2.56	0.58
7:P2:137:GLN:OE1	29:P2:202:PEB:HHA1	2.03	0.58
7:I4:106:GLU:HA	7:I4:110:LEU:HB2	1.86	0.58
7:M4:135:LYS:HZ3	7:M4:169:PHE:HB2	1.67	0.58
13:k6:37:GLN:OE1	13:k6:37:GLN:HA	2.02	0.58
13:k6:123:GLY:O	13:k6:124:ASN:HB3	2.03	0.58
7:R7:35:ASN:O	7:R7:39:ASP:HB2	2.04	0.58
7:a7:19:VAL:HG23	7:a7:19:VAL:O	2.03	0.58
7:c7:122:VAL:CG1	7:c7:123:PRO:HD2	2.33	0.58
6:l7:90:MET:O	6:l7:93:VAL:CG1	2.51	0.58
5:H9:77:ARG:NH2	31:H9:1001:CYC:HBD1	2.10	0.58
6:U9:83:TYR:OH	13:kH:261:MET:HB2	2.04	0.58
6:AA:96:CYS:HA	6:AA:99:VAL:HG22	1.85	0.58
6:CA:96:CYS:HA	6:CA:99:VAL:HG22	1.85	0.58
6:KB:54:GLU:OE1	29:KB:202:PEB:CAC	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:MB:54:GLU:OE1	29:MB:202:PEB:CAC	2.51	0.58
6:dB:147:GLN:H	6:dB:147:GLN:CD	2.10	0.58
6:FB:54:GLU:OE1	29:FB:202:PEB:CAC	2.51	0.58
10:dD:121:ASP:HB2	6:BD:14:ALA:O	2.04	0.58
10:dD:270:ARG:HD2	10:dD:273:ILE:CG1	2.33	0.58
29:dD:401:PEB:HHA1	7:ED:82:CYS:HA	1.84	0.58
6:BD:34:SER:CB	6:BD:37:ARG:HH21	2.17	0.58
6:DD:100:GLY:O	6:DD:155:TYR:OH	2.21	0.58
7:ED:106:GLU:HA	7:ED:110:LEU:HB2	1.86	0.58
6:FD:49:GLU:HA	6:FD:52:VAL:HG22	1.86	0.58
6:JD:70:GLY:N	6:JD:74:GLU:OE1	2.37	0.58
6:LD:100:GLY:O	6:LD:155:TYR:OH	2.21	0.58
7:BE:116:THR:O	7:BE:120:LEU:HB2	2.03	0.58
7:FE:116:THR:O	7:FE:120:LEU:HB2	2.03	0.58
5:NF:150:ILE:O	5:NF:150:ILE:HG23	2.04	0.58
6:IF:99:VAL:HG23	7:mF:9:VAL:HG21	1.86	0.58
6:EG:2:LYS:NZ	14:MG:194:ILE:H	2.01	0.58
13:kH:139:LEU:O	13:kH:141:PHE:HD1	1.86	0.58
3:BI:224:MET:HE3	5:JI:151:GLY:O	2.03	0.58
5:FI:84:ARG:NH1	5:FI:85:ASP:OD1	2.36	0.58
4:GI:100:VAL:HG11	5:HI:27:LEU:CD1	2.33	0.58
5:JI:26:ALA:HB3	27:aP:91:VAL:HG12	1.78	0.58
6:II:99:VAL:HG23	7:mI:9:VAL:HG21	1.86	0.58
7:FJ:156:GLY:HA2	25:YP:638:ASN:HB2	1.85	0.58
6:gJ:33:ARG:NH2	6:iJ:24:LEU:O	2.36	0.58
6:kJ:14:ALA:O	16:xJ:187:ARG:CA	2.51	0.58
2:AK:200:ARG:NH2	7:mK:92:TYR:OH	2.31	0.58
3:BK:227:GLU:CG	20:cP:52:LYS:HE2	2.29	0.58
4:CK:12:ALA:C	4:CK:14:ASN:N	2.61	0.58
5:FK:47:ASN:ND2	5:FK:141:LEU:CD2	2.49	0.58
4:GK:3:THR:CG2	4:GK:101:VAL:HB	2.33	0.58
6:SL:69:PRO:CG	26:ZP:132:LYS:HZ1	2.17	0.58
6:eL:122:LEU:HD22	29:eL:201:PEB:HNA	1.67	0.58
6:gL:75:ASN:OD1	6:gL:78:LYS:HG2	2.04	0.58
6:kL:122:LEU:HD22	29:kL:201:PEB:HNA	1.67	0.58
7:NM:15:LYS:NZ	21:oP:131:GLN:CD	2.61	0.58
6:hM:145:SER:HG	6:hM:147:GLN:CD	2.10	0.58
6:AN:45:ALA:O	6:AN:48:HIS:ND1	2.36	0.58
6:GN:139:CYS:SG	6:GN:142:ARG:NH1	2.76	0.58
7:HN:111:ASN:HB2	14:MN:298:ARG:NH2	2.18	0.58
21:DP:97:LEU:HD13	20:CP:18:LEU:HD22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BP:83:ARG:HG3	25:YP:614:TYR:CE2	2.38	0.58
25:YP:809:ILE:HD13	25:YP:821:MET:HG3	1.85	0.58
20:gP:72:ALA:HA	20:gP:77:MET:HB3	1.85	0.58
21:jP:34:GLY:HA3	25:1P:47:LEU:HD13	1.86	0.58
7:BQ:48:ALA:HA	7:BQ:51:MET:HB2	1.84	0.58
7:DQ:136:ALA:CB	29:DQ:203:PEB:O1C	2.43	0.58
6:IQ:18:PHE:CE2	14:MQ:265:LYS:HB3	2.38	0.58
7:LQ:90:LEU:O	7:LQ:94:SER:OG	2.22	0.58
14:MQ:172:SER:CB	14:MQ:174:ARG:HH21	2.16	0.58
6:QR:138:LEU:HA	29:QR:202:PEB:HMD1	1.84	0.58
7:XR:42:ASN:HA	7:XR:45:VAL:HG22	1.86	0.58
4:E1:46:GLY:C	6:Q7:49:GLU:HG2	2.29	0.58
4:M1:115:LEU:HG	4:M1:115:LEU:O	2.03	0.58
6:Z1:54:GLU:OE2	29:Z1:203:PEB:HAC1	2.03	0.58
6:M2:17:ARG:NH2	6:O2:2:LYS:HZ1	1.93	0.58
7:N2:54:ASP:OD1	7:N2:137:GLN:NE2	2.37	0.58
6:O2:138:LEU:N	29:O2:202:PEB:HMD1	2.18	0.58
7:B3:114:LYS:HD3	7:B3:176:ILE:HA	1.86	0.58
10:d4:284:LEU:HD12	10:d4:284:LEU:O	2.04	0.58
7:C4:106:GLU:HA	7:C4:110:LEU:HB2	1.86	0.58
6:D4:49:GLU:HA	6:D4:52:VAL:HG22	1.86	0.58
7:E4:33:ASP:OD1	7:E4:33:ASP:N	2.24	0.58
7:E4:36:LYS:HZ1	29:E4:202:PEB:HBB2	1.69	0.58
7:G4:160:SER:O	7:G4:163:SER:OG	2.20	0.58
29:G4:202:PEB:CBD	6:H4:33:ARG:CZ	2.82	0.58
6:H4:89:TYR:OH	6:H4:117:TYR:OH	2.21	0.58
7:K5:53:SER:O	7:K5:57:SER:OG	2.22	0.58
12:E5:162:ASN:C	29:kI:203:PEB:CHB	2.76	0.58
13:k6:61:ARG:HH11	7:V7:150:LYS:HE2	1.69	0.58
5:H7:150:ILE:CG2	7:ZB:159:THR:HG23	2.31	0.58
7:c7:35:ASN:O	7:c7:39:ASP:HB2	2.04	0.58
7:C8:53:SER:O	7:C8:57:SER:OG	2.22	0.58
3:B9:188:PHE:CE1	5:L9:111:ASN:ND2	2.71	0.58
7:a9:35:ASN:O	7:a9:39:ASP:HB2	2.04	0.58
7:e9:35:ASN:O	7:e9:39:ASP:HB2	2.04	0.58
6:AA:43:LYS:HE2	6:AA:144:MET:HB3	1.85	0.58
7:LA:151:MET:N	7:LA:151:MET:SD	2.75	0.58
15:bB:319:VAL:HG23	20:KP:79:ALA:HB1	1.77	0.58
7:DB:58:GLY:O	7:DB:62:GLU:HG2	2.02	0.58
7:NB:129:ARG:HG3	28:bP:121:HIS:HB3	1.79	0.58
6:YB:28:GLN:O	6:YB:32:GLN:NE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ZB:35:ASN:OD1	29:ZB:202:PEB:C2C	2.51	0.58
6:dB:28:GLN:O	6:dB:32:GLN:NE2	2.37	0.58
6:lB:20:SER:OG	6:lB:21:ASN:N	2.37	0.58
7:GD:170:ASP:N	7:GD:170:ASP:OD1	2.33	0.58
7:KD:36:LYS:HZ3	29:KD:202:PEB:C3B	2.16	0.58
6:LD:20:SER:N	6:LD:23:ASP:OD2	2.29	0.58
6:LD:70:GLY:N	6:LD:74:GLU:OE1	2.37	0.58
18:ME:217:SER:CB	18:ME:223:ARG:HB3	2.34	0.58
5:DF:84:ARG:NH1	5:DF:85:ASP:OD1	2.35	0.58
5:JF:11:GLN:HE22	27:3P:119:ALA:HB3	1.69	0.58
7:YF:12:SER:HA	7:YF:15:LYS:HG3	1.85	0.58
7:aF:12:SER:HA	7:aF:15:LYS:HG3	1.85	0.58
7:eF:12:SER:HA	7:eF:15:LYS:HG3	1.85	0.58
6:CG:19:PRO:HB3	7:DG:95:TYR:CE1	2.38	0.58
7:VI:107:ASP:OD1	7:VI:107:ASP:N	2.37	0.58
6:AJ:75:ASN:OD1	6:AJ:78:LYS:HG2	2.04	0.58
6:uJ:162:ALA:HA	16:xJ:92:LYS:HE3	1.86	0.58
16:wJ:102:ALA:HA	16:wJ:105:ARG:NE	2.14	0.58
3:BK:207:ARG:NH1	3:BK:208:PRO:O	2.36	0.58
4:EK:7:GLU:OE1	4:KK:22:THR:HG22	2.03	0.58
5:NK:5:PHE:CD1	5:NK:27:LEU:HD23	2.39	0.58
6:bK:49:GLU:O	6:bK:53:LYS:CD	2.51	0.58
6:AL:137:ARG:NH2	29:AL:202:PEB:CGB	2.66	0.58
6:SL:122:LEU:HD22	29:SL:201:PEB:HNA	1.67	0.58
6:eL:75:ASN:OD1	6:eL:78:LYS:HG2	2.04	0.58
6:kL:75:ASN:OD1	6:kL:78:LYS:HG2	2.04	0.58
6:MM:28:GLN:O	6:MM:32:GLN:NE2	2.37	0.58
7:TM:149:ARG:NH2	6:UM:157:ASP:OD2	2.31	0.58
6:YM:28:GLN:O	6:YM:32:GLN:NE2	2.37	0.58
6:aM:54:GLU:OE1	29:aM:202:PEB:CAC	2.51	0.58
6:dM:28:GLN:O	6:dM:32:GLN:NE2	2.37	0.58
6:AN:139:CYS:SG	6:AN:142:ARG:NH1	2.76	0.58
6:CN:139:CYS:SG	6:CN:142:ARG:NH1	2.76	0.58
7:DN:84:ARG:HH12	14:MN:149:ALA:HB1	1.69	0.58
6:EN:96:CYS:HA	6:EN:99:VAL:HG22	1.85	0.58
6:EN:139:CYS:SG	6:EN:142:ARG:NH1	2.76	0.58
21:DP:6:THR:HG23	23:WP:173:LEU:HD22	1.85	0.58
21:DP:97:LEU:CD1	20:CP:18:LEU:HD22	2.33	0.58
21:QP:75:THR:HG22	20:TP:115:MET:CE	2.34	0.58
22:VP:101:LYS:HD2	22:VP:155:TYR:CZ	2.39	0.58
20:mP:106:GLU:OE1	28:4P:50:TYR:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:wP:110:ASN:O	25:1P:848:ALA:HB2	2.03	0.58
22:xP:28:SER:O	22:xP:32:THR:HG23	2.03	0.58
22:xP:101:LYS:HD2	22:xP:155:TYR:CZ	2.39	0.58
25:1P:31:GLN:HB2	25:1P:33:ARG:HG3	1.85	0.58
8:eR:91:GLU:CD	7:NR:108:ARG:HH22	2.12	0.58
6:MR:33:ARG:HD3	6:MR:151:GLU:OE2	2.03	0.58
7:RR:137:GLN:OE1	29:RR:203:PEB:HHA1	2.03	0.58
4:E1:2:LYS:O	4:E1:2:LYS:HG3	2.03	0.58
29:b1:202:PEB:NC	29:b1:202:PEB:NB	2.50	0.58
6:h1:33:ARG:HH21	6:h1:33:ARG:CA	2.16	0.58
6:O2:68:ASN:OD1	13:k6:235:TYR:CB	2.46	0.58
6:W2:47:ASN:ND2	29:W2:202:PEB:CMC	2.67	0.58
7:X2:84:ARG:O	7:X2:87:GLU:N	2.37	0.58
7:B3:172:VAL:O	7:B3:172:VAL:HG22	2.04	0.58
7:D3:110:LEU:HD11	7:D3:172:VAL:HG23	1.85	0.58
6:I3:139:CYS:HB3	29:I3:202:PEB:CBA	2.33	0.58
6:B4:100:GLY:O	6:B4:155:TYR:OH	2.21	0.58
6:F4:34:SER:OG	7:G4:31:ILE:HD13	2.03	0.58
6:H4:142:ARG:HH22	29:H4:202:PEB:CGC	2.16	0.58
7:K5:142:ILE:CG2	7:K5:162:ALA:HB2	2.33	0.58
7:m7:8:VAL:HG11	7:m7:23:ASP:OD2	2.03	0.58
3:B9:30:ARG:HD2	4:C9:14:ASN:HD21	1.68	0.58
6:Q9:53:LYS:HG2	4:EK:49:GLN:HG2	1.85	0.58
7:m9:8:VAL:HG11	7:m9:23:ASP:OD2	2.03	0.58
6:AA:45:ALA:O	6:AA:48:HIS:ND1	2.36	0.58
7:JA:25:GLN:HA	7:JA:28:LYS:HD2	1.86	0.58
14:MA:101:LEU:H	14:MA:101:LEU:CD2	2.05	0.58
16:AB:93:GLY:HA3	6:hB:114:ARG:HH21	1.69	0.58
6:IB:28:GLN:O	6:IB:32:GLN:NE2	2.37	0.58
6:KB:28:GLN:O	6:KB:32:GLN:NE2	2.37	0.58
6:MB:28:GLN:O	6:MB:32:GLN:NE2	2.37	0.58
6:WB:20:SER:OG	6:WB:21:ASN:N	2.37	0.58
6:WB:28:GLN:O	6:WB:32:GLN:NE2	2.37	0.58
6:WB:135:ARG:HD2	6:WB:157:ASP:OD1	2.00	0.58
6:YB:54:GLU:OE1	29:YB:203:PEB:CAC	2.52	0.58
6:KC:15:ALA:HA	18:MC:67:GLN:HG2	1.85	0.58
7:KD:62:GLU:OE2	7:KD:129:ARG:HD3	2.03	0.58
7:DE:116:THR:O	7:DE:120:LEU:HB2	2.04	0.58
6:KE:15:ALA:HA	18:ME:67:GLN:HG2	1.85	0.58
18:ME:241:ALA:CA	6:SI:133:TYR:OH	2.51	0.58
5:LF:84:ARG:NH1	5:LF:85:ASP:OD1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:90:LEU:O	7:BG:94:SER:OG	2.22	0.58
7:BG:141:PHE:CZ	29:BG:203:PEB:C4A	2.87	0.58
13:kH:6:TYR:O	13:kH:9:GLY:N	2.37	0.58
3:BI:227:GLU:HG3	20:vP:56:GLN:HG3	1.79	0.58
4:EI:1:MET:CG	4:EI:109:GLU:OE2	2.51	0.58
4:KI:13:ASP:OD2	5:LI:108:ARG:NH1	2.35	0.58
6:YJ:75:ASN:OD1	6:YJ:78:LYS:HG2	2.04	0.58
6:aJ:44:LEU:HD22	6:aJ:152:PHE:CE1	2.38	0.58
6:aJ:75:ASN:OD1	6:aJ:78:LYS:HG2	2.04	0.58
6:gJ:75:ASN:OD1	6:gJ:78:LYS:HG2	2.04	0.58
6:mJ:75:ASN:OD1	6:mJ:78:LYS:HG2	2.04	0.58
6:oJ:91:ARG:NH1	7:pJ:16:ALA:HA	2.18	0.58
19:zJ:201:VAL:HG11	19:zJ:211:ARG:HD3	1.86	0.58
4:IK:49:GLN:NE2	15:bM:337:PRO:CB	2.50	0.58
29:bK:202:PEB:NB	29:bK:202:PEB:NC	2.50	0.58
6:OL:75:ASN:OD1	6:OL:78:LYS:HG2	2.04	0.58
6:UL:76:GLN:HG3	6:UL:80:ASN:HD21	1.68	0.58
6:cL:75:ASN:OD1	6:cL:78:LYS:HG2	2.04	0.58
6:cL:122:LEU:HD22	29:cL:201:PEB:HNA	1.67	0.58
6:mL:75:ASN:OD1	6:mL:78:LYS:HG2	2.04	0.58
29:mL:201:PEB:HHC2	7:rL:76:ASN:ND2	2.18	0.58
6:uL:75:ASN:OD1	6:uL:78:LYS:HG2	2.04	0.58
19:zL:339:VAL:HA	20:RP:67:SER:OG	2.03	0.58
6:SM:28:GLN:O	6:SM:32:GLN:NE2	2.37	0.58
6:UM:28:GLN:O	6:UM:32:GLN:NE2	2.37	0.58
7:ZM:35:ASN:OD1	29:ZM:202:PEB:C2C	2.51	0.58
6:aM:20:SER:OG	6:aM:21:ASN:N	2.37	0.58
7:BN:25:GLN:HA	7:BN:28:LYS:HD2	1.86	0.58
6:KN:45:ALA:O	6:KN:48:HIS:ND1	2.36	0.58
6:EO:42:GLU:O	6:EO:42:GLU:CG	2.51	0.58
20:KP:97:ILE:HD12	21:OP:19:LEU:CD1	2.33	0.58
20:KP:107:ILE:HD11	28:bP:51:GLY:N	2.19	0.58
21:jP:18:TYR:CE1	25:1P:157:ARG:HD3	2.38	0.58
20:tP:13:ALA:HB2	25:1P:706:LYS:HB3	1.86	0.58
23:yP:129:ILE:O	23:yP:133:ILE:HG13	2.03	0.58
6:EQ:2:LYS:NZ	14:MQ:194:ILE:H	2.00	0.58
6:SR:118:ARG:HH12	6:UR:114:ARG:HE	1.51	0.58
7:TR:110:LEU:HD22	7:TR:175:ALA:HB3	1.85	0.58
5:L1:89:VAL:HG23	5:L1:134:MET:HE1	1.84	0.58
5:N1:5:PHE:CD1	5:N1:27:LEU:HD23	2.39	0.58
6:S1:98:VAL:HG21	7:T1:19:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P2:5:PHE:CD1	7:P2:27:LEU:HD22	2.38	0.58
7:P2:77:ARG:NE	6:W2:107:GLU:O	2.37	0.58
6:S2:87:ASP:OD1	7:T2:18:TYR:OH	2.13	0.58
6:U2:17:ARG:CZ	6:W2:2:LYS:HZ2	2.17	0.58
6:B4:70:GLY:N	6:B4:74:GLU:OE1	2.37	0.58
6:B4:89:TYR:OH	6:B4:117:TYR:OH	2.21	0.58
6:H4:4:VAL:O	6:H4:8:VAL:HG13	2.04	0.58
6:H4:49:GLU:HA	6:H4:52:VAL:HG22	1.86	0.58
6:H4:70:GLY:N	6:H4:74:GLU:OE1	2.37	0.58
6:L4:4:VAL:O	6:L4:8:VAL:HG13	2.04	0.58
7:A5:53:SER:O	7:A5:57:SER:OG	2.22	0.58
13:k6:22:ILE:HG13	13:k6:23:ALA:N	2.18	0.58
13:k6:102:TYR:HE1	6:Q7:69:PRO:HD3	1.66	0.58
6:W7:99:VAL:HG21	7:Y7:9:VAL:HG21	1.85	0.58
7:I8:27:LEU:HD12	7:I8:27:LEU:N	2.18	0.58
7:L8:104:VAL:HG23	4:I9:68:GLN:HE22	1.69	0.58
12:E8:88:ALA:O	6:ZF:141:PRO:HG2	2.02	0.58
3:B9:206:PHE:CZ	20:vP:76:GLU:HG3	2.39	0.58
7:P9:35:ASN:O	7:P9:39:ASP:HB2	2.04	0.58
7:a9:87:GLU:HA	7:a9:90:LEU:HB3	1.85	0.58
6:CA:140:VAL:HG13	6:CA:149:GLY:HA3	1.86	0.58
6:GA:140:VAL:HG13	6:GA:149:GLY:HA3	1.86	0.58
6:QB:20:SER:OG	6:QB:21:ASN:N	2.37	0.58
6:UB:28:GLN:O	6:UB:32:GLN:NE2	2.37	0.58
6:FB:9:VAL:CG2	7:gB:98:LEU:HD23	2.33	0.58
6:DD:49:GLU:HA	6:DD:52:VAL:HG22	1.86	0.58
6:HD:147:GLN:O	6:HD:150:VAL:N	2.29	0.58
7:KD:82:CYS:HA	29:KD:201:PEB:HHA1	1.84	0.58
6:AE:23:ASP:HB3	7:BE:98:LEU:HD21	1.85	0.58
7:BE:51:MET:HE1	7:BE:137:GLN:CG	2.29	0.58
7:HE:116:THR:O	7:HE:120:LEU:HB2	2.04	0.58
3:BF:226:GLN:HE21	27:3P:63:ARG:HD3	1.69	0.58
6:ZF:33:ARG:NH2	6:ZF:151:GLU:CG	2.67	0.58
7:BG:133:ILE:HG23	29:BG:203:PEB:HBC2	1.85	0.58
7:DG:90:LEU:O	7:DG:94:SER:OG	2.22	0.58
29:FG:201:PEB:HHC2	14:MG:181:TYR:HE2	1.68	0.58
7:HG:54:ASP:OD2	29:HG:203:PEB:HBA2	2.03	0.58
7:LG:90:LEU:O	7:LG:94:SER:OG	2.22	0.58
13:kH:37:GLN:HA	13:kH:37:GLN:OE1	2.02	0.58
4:KI:100:VAL:HG11	5:LI:27:LEU:HD13	1.86	0.58
7:RI:107:ASP:OD1	7:RI:107:ASP:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jI:87:ASP:OD1	7:kI:18:TYR:OH	2.22	0.58
6:EJ:75:ASN:OD1	6:EJ:78:LYS:HG2	2.04	0.58
6:oJ:75:ASN:OD1	6:oJ:78:LYS:HG2	2.04	0.58
6:qJ:75:ASN:OD1	6:qJ:78:LYS:HG2	2.04	0.58
7:tJ:77:ARG:HH12	16:xJ:212:ARG:HH22	1.40	0.58
4:CK:3:THR:N	4:CK:6:THR:OG1	2.33	0.58
4:KK:3:THR:CG2	4:KK:101:VAL:HB	2.33	0.58
6:ZK:49:GLU:O	6:ZK:53:LYS:HE3	2.03	0.58
7:gK:7:ARG:HH11	14:MN:96:LYS:HE3	1.69	0.58
6:gL:33:ARG:NH2	6:iL:24:LEU:O	2.36	0.58
6:GM:20:SER:OG	6:GM:21:ASN:N	2.37	0.58
6:KM:28:GLN:O	6:KM:32:GLN:NE2	2.37	0.58
6:KM:54:GLU:OE1	29:KM:202:PEB:CAC	2.51	0.58
7:NM:170:ASP:HB3	28:4P:184:THR:HG22	1.84	0.58
6:WM:135:ARG:HD2	6:WM:157:ASP:OD1	2.00	0.58
6:fM:9:VAL:CG2	7:gM:98:LEU:HD23	2.33	0.58
6:GN:45:ALA:O	6:GN:48:HIS:ND1	2.36	0.58
7:DO:39:ASP:OD1	29:DO:202:PEB:C1D	2.49	0.58
7:DO:120:LEU:HD22	29:DO:201:PEB:HBB1	1.85	0.58
7:JO:120:LEU:HD22	29:JO:201:PEB:HBB1	1.86	0.58
20:GP:72:ALA:HA	20:GP:77:MET:HB3	1.85	0.58
20:JP:20:PRO:HG2	20:NP:101:VAL:HG13	1.84	0.58
25:YP:31:GLN:HB2	25:YP:33:ARG:HG3	1.84	0.58
27:aP:48:THR:HG21	21:sP:65:ILE:HA	1.86	0.58
20:iP:72:ALA:HA	20:iP:77:MET:HB3	1.85	0.58
22:xP:108:GLY:O	22:xP:112:VAL:HB	2.03	0.58
23:yP:33:THR:O	23:yP:37:ARG:HG3	2.04	0.58
6:OR:33:ARG:HD3	6:OR:151:GLU:OE2	2.03	0.58
7:TR:42:ASN:HA	7:TR:45:VAL:HG22	1.86	0.58
6:UR:138:LEU:HB3	29:UR:202:PEB:C2D	2.29	0.58
6:WR:137:ARG:NH2	29:WR:202:PEB:CHB	2.66	0.58
1:X1:192:ASP:C	1:X1:194:GLU:H	2.12	0.58
5:L1:62:GLU:OE2	5:L1:129:VAL:HG11	2.03	0.58
6:b1:49:GLU:O	6:b1:53:LYS:CD	2.51	0.58
6:U2:54:GLU:OE1	29:U2:202:PEB:CMC	2.51	0.58
7:L3:114:LYS:HD3	7:L3:176:ILE:HA	1.86	0.58
6:D4:70:GLY:N	6:D4:74:GLU:OE1	2.37	0.58
7:E4:106:GLU:HA	7:E4:110:LEU:HB2	1.86	0.58
7:K4:62:GLU:OE2	7:K4:129:ARG:HD3	2.03	0.58
6:L4:70:GLY:N	6:L4:74:GLU:OE1	2.37	0.58
7:I5:28:LYS:CB	19:zL:290:LEU:O	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:161:ILE:CD1	7:V7:139:VAL:HG11	2.33	0.58
7:P7:35:ASN:O	7:P7:39:ASP:HB2	2.04	0.58
6:l7:137:ARG:HH12	29:l7:202:PEB:C4B	2.10	0.58
3:B9:197:PHE:HE2	21:sP:140:LEU:HD13	1.64	0.58
5:F9:17:GLU:OE1	8:eR:301:PHE:CE2	2.56	0.58
7:R9:35:ASN:O	7:R9:39:ASP:HB2	2.04	0.58
6:CA:45:ALA:O	6:CA:48:HIS:ND1	2.36	0.58
7:FA:69:PRO:HG3	7:JA:16:ALA:HB2	1.85	0.58
6:IA:37:ARG:NE	6:IA:97:LEU:O	2.36	0.58
6:QB:28:GLN:O	6:QB:32:GLN:NE2	2.37	0.58
6:SB:28:GLN:O	6:SB:32:GLN:NE2	2.37	0.58
6:aB:20:SER:OG	6:aB:21:ASN:N	2.37	0.58
6:aB:28:GLN:O	6:aB:32:GLN:NE2	2.37	0.58
6:hB:28:GLN:O	6:hB:32:GLN:NE2	2.37	0.58
18:MC:300:VAL:HG13	6:gJ:49:GLU:CG	2.22	0.58
10:dD:280:SER:HB3	6:WI:70:GLY:HA3	1.79	0.58
7:CD:106:GLU:HA	7:CD:110:LEU:HB2	1.86	0.58
7:ED:62:GLU:OE2	7:ED:129:ARG:HD3	2.03	0.58
6:FD:70:GLY:N	6:FD:74:GLU:OE1	2.37	0.58
7:GD:106:GLU:HA	7:GD:110:LEU:HB2	1.86	0.58
7:KD:46:SER:C	6:LD:161:ASN:HD21	2.10	0.58
7:MD:173:GLY:O	7:MD:177:SER:OG	2.14	0.58
18:ME:109:LYS:O	18:ME:113:LYS:NZ	2.36	0.58
3:BF:226:GLN:CB	5:JF:151:GLY:O	2.51	0.58
7:TF:82:CYS:CA	29:TF:201:PEB:HAA1	2.32	0.58
6:UF:95:TYR:OH	7:VF:17:ALA:O	2.18	0.58
4:GI:145:GLN:HE21	29:JI:1002:PEB:CMC	2.16	0.58
7:VI:33:ASP:CG	7:VI:36:LYS:HD3	2.29	0.58
6:AJ:137:ARG:HG3	6:AJ:137:ARG:O	2.04	0.58
6:cJ:133:TYR:HE1	6:cJ:137:ARG:CD	2.15	0.58
29:mJ:201:PEB:HHC2	7:rJ:76:ASN:ND2	2.18	0.58
19:zJ:329:ILE:HD11	20:pP:59:PHE:CD2	2.39	0.58
4:CK:2:LYS:O	4:CK:2:LYS:HD2	2.03	0.58
4:EK:2:LYS:HG3	4:EK:2:LYS:O	2.03	0.58
6:hK:49:GLU:O	6:hK:53:LYS:CD	2.51	0.58
6:UL:33:ARG:NH2	6:WL:24:LEU:O	2.36	0.58
6:sL:75:ASN:OD1	6:sL:78:LYS:HG2	2.04	0.58
6:MM:20:SER:OG	6:MM:21:ASN:N	2.37	0.58
7:NM:170:ASP:HB3	28:4P:184:THR:HG23	1.83	0.58
6:YM:20:SER:OG	6:YM:21:ASN:N	2.37	0.58
7:FN:37:ARG:NH1	7:FN:97:LEU:O	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KN:140:VAL:HG13	6:KN:149:GLY:HA3	1.86	0.58
7:BO:114:LYS:HD3	7:BO:176:ILE:HA	1.86	0.58
7:LO:116:THR:HG23	9:OO:42:LEU:HD12	1.85	0.58
25:1P:698:VAL:HG21	25:1P:702:ARG:CZ	2.33	0.58
6:KQ:2:LYS:HZ2	30:MQ:404:PUB:HBB1	1.63	0.58
7:TR:137:GLN:OE1	29:TR:203:PEB:HHA1	2.03	0.58
2:A1:284:ARG:HD2	29:A1:303:PEB:HMA2	1.86	0.58
4:M1:3:THR:CG2	4:M1:101:VAL:HB	2.33	0.58
4:M1:9:ILE:HD11	5:N1:99:ALA:HB2	1.86	0.58
5:N1:38:LEU:HD12	29:N1:1002:PEB:C4D	2.33	0.58
6:M2:137:ARG:HG3	29:M2:202:PEB:HHC1	1.86	0.58
6:Q2:37:ARG:NH1	6:Q2:98:VAL:CA	2.67	0.58
7:R2:59:MET:HE1	29:R2:201:PEB:H2A1	1.86	0.58
7:R2:137:GLN:OE1	29:R2:203:PEB:HHA1	2.03	0.58
7:H3:110:LEU:HD11	7:H3:172:VAL:HG23	1.85	0.58
7:E4:59:MET:HE1	7:E4:129:ARG:C	2.29	0.58
6:J4:142:ARG:HH22	29:J4:202:PEB:CGC	2.16	0.58
13:k6:6:TYR:O	13:k6:9:GLY:N	2.37	0.58
13:k6:259:SER:CB	6:U7:67:LYS:NZ	2.58	0.58
4:E7:122:PHE:CZ	31:E7:1001:CYC:HAA1	2.37	0.58
2:A9:81:PHE:HB3	2:A9:165:LEU:HD13	1.86	0.58
4:M9:27:VAL:HG11	5:N9:38:LEU:HD21	1.84	0.58
7:V9:147:THR:HB	13:kH:124:ASN:HD21	1.69	0.58
7:c9:122:VAL:CG1	7:c9:123:PRO:HD2	2.33	0.58
7:i9:35:ASN:O	7:i9:39:ASP:HB2	2.04	0.58
6:AA:37:ARG:CD	6:AA:97:LEU:O	2.52	0.58
6:CA:6:THR:O	14:MA:140:VAL:HG12	2.04	0.58
7:DA:25:GLN:HA	7:DA:28:LYS:HD2	1.86	0.58
7:LA:25:GLN:HA	7:LA:28:LYS:HD2	1.86	0.58
6:CB:28:GLN:O	6:CB:32:GLN:NE2	2.37	0.58
6:GB:28:GLN:O	6:GB:32:GLN:NE2	2.37	0.58
7:TB:149:ARG:NH2	6:UB:157:ASP:OD2	2.31	0.58
7:DC:134:MET:HA	7:DC:137:GLN:HE21	1.69	0.58
7:JC:116:THR:O	7:JC:120:LEU:HB2	2.03	0.58
18:MC:45:PHE:CE2	18:MC:253:ALA:CB	2.87	0.58
6:LD:4:VAL:O	6:LD:8:VAL:HG13	2.04	0.58
5:JF:18:PHE:CD2	27:3P:98:GLN:HB2	2.39	0.58
7:cF:1:MET:HG3	7:cF:104:VAL:CB	2.31	0.58
7:kF:12:SER:HA	7:kF:15:LYS:HG3	1.85	0.58
7:HG:90:LEU:O	7:HG:94:SER:OG	2.22	0.58
13:kH:123:GLY:O	13:kH:124:ASN:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DJ:15:LYS:O	7:DJ:16:ALA:HB3	2.04	0.58
7:FJ:35:ASN:ND2	29:FJ:202:PEB:HBC1	2.18	0.58
6:GJ:66:LEU:O	6:GJ:71:GLU:HB2	2.04	0.58
7:HJ:127:SER:O	7:HJ:131:VAL:CG1	2.52	0.58
7:LJ:27:LEU:CD2	28:4P:228:ILE:HG13	2.34	0.58
6:iJ:75:ASN:OD1	6:iJ:78:LYS:HG2	2.04	0.58
6:mJ:98:VAL:HG21	7:nJ:19:VAL:CG2	2.34	0.58
1:XK:192:ASP:C	1:XK:194:GLU:H	2.12	0.58
4:GK:65:TYR:CE2	4:MK:65:TYR:CZ	2.92	0.58
7:gK:7:ARG:HH11	14:MN:96:LYS:CE	2.16	0.58
7:HL:72:MEN:O	7:HL:78:ARG:CD	2.50	0.58
6:IL:72:ALA:HB1	29:IL:201:PEB:CMA	2.31	0.58
6:IL:73:GLY:HA2	6:IL:78:LYS:HB3	1.85	0.58
7:LL:26:ALA:HB2	28:bP:232:ALA:HB2	1.86	0.58
6:YL:75:ASN:OD1	6:YL:78:LYS:HG2	2.04	0.58
6:oL:75:ASN:OD1	6:oL:78:LYS:HG2	2.04	0.58
19:zL:201:VAL:HG11	19:zL:211:ARG:HD3	1.86	0.58
19:zL:329:ILE:HD12	20:NP:59:PHE:CD2	2.37	0.58
6:MM:9:VAL:HG13	7:NM:95:TYR:CD1	2.39	0.58
6:aM:28:GLN:O	6:aM:32:GLN:NE2	2.37	0.58
6:dM:20:SER:OG	6:dM:21:ASN:N	2.37	0.58
6:fM:28:GLN:O	6:fM:32:GLN:NE2	2.37	0.58
6:GO:99:VAL:HG12	6:GO:101:GLY:H	1.69	0.58
21:dP:15:GLN:NE2	23:yP:137:GLN:HG3	2.19	0.58
20:vP:72:ALA:HA	20:vP:77:MET:HB3	1.85	0.58
6:EQ:2:LYS:HZ1	14:MQ:194:ILE:N	2.02	0.58
7:LQ:113:LEU:HD13	14:MQ:236:TYR:CE2	2.38	0.58
6:MR:17:ARG:NH2	6:OR:2:LYS:HZ2	1.95	0.58
5:D1:40:ILE:CD1	5:D1:156:LEU:HD13	2.30	0.57
4:G1:3:THR:CG2	4:G1:101:VAL:HB	2.33	0.57
6:O2:131:ILE:HG22	6:O2:160:ILE:CD1	2.26	0.57
7:T2:42:ASN:HA	7:T2:45:VAL:HG22	1.86	0.57
7:H3:120:LEU:HD22	29:H3:201:PEB:HBB1	1.85	0.57
10:d4:270:ARG:HD2	10:d4:273:ILE:CG1	2.33	0.57
6:B4:147:GLN:O	6:B4:150:VAL:N	2.29	0.57
7:E4:170:ASP:N	7:E4:170:ASP:OD1	2.33	0.57
6:F4:4:VAL:O	6:F4:8:VAL:HG13	2.04	0.57
6:F4:81:LYS:HD2	6:F4:84:ARG:HD2	1.48	0.57
6:J4:81:LYS:HZ1	29:J4:201:PEB:C1C	2.16	0.57
7:M4:106:GLU:HA	7:M4:110:LEU:HB2	1.86	0.57
13:k6:124:ASN:HD21	7:V7:147:THR:HB	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:128:ILE:O	13:k6:128:ILE:HG22	2.03	0.57
2:A7:250:GLU:HA	2:A7:253:SER:HB3	1.86	0.57
5:J7:16:GLY:HA3	5:L7:69:PRO:HB3	1.86	0.57
7:I8:7:ARG:CB	28:4P:132:PRO:HA	2.33	0.57
29:I8:203:PEB:HMD3	7:JM:14:ALA:HB1	1.87	0.57
4:C9:68:GLN:CB	4:GI:139:SER:HB3	2.19	0.57
6:EA:43:LYS:HE2	6:EA:144:MET:HB3	1.86	0.57
7:NB:170:ASP:HB3	28:bP:183:GLY:C	2.29	0.57
18:MC:277:ARG:HD3	5:DF:17:GLU:CD	2.29	0.57
6:HD:100:GLY:O	6:HD:155:TYR:OH	2.21	0.57
7:ID:62:GLU:OE2	7:ID:129:ARG:HD3	2.03	0.57
6:JD:49:GLU:HA	6:JD:52:VAL:HG22	1.86	0.57
7:KD:160:SER:O	7:KD:164:GLU:HG3	2.03	0.57
7:MD:146:ALA:HA	29:MD:203:PEB:O1B	2.03	0.57
7:MD:170:ASP:N	7:MD:170:ASP:OD1	2.33	0.57
3:BF:225:VAL:CG2	20:TP:75:GLU:CD	2.75	0.57
4:EF:1:MET:CG	4:EF:109:GLU:OE2	2.51	0.57
7:eF:33:ASP:HB2	7:eF:36:LYS:HD3	1.86	0.57
13:kH:267:LYS:NZ	29:TR:203:PEB:HBD1	2.18	0.57
1:XI:94:TYR:HD1	7:TI:84:ARG:NH1	2.01	0.57
2:AI:39:SER:O	7:RI:91:ARG:NH2	2.36	0.57
7:LJ:108:ARG:O	19:zJ:218:PRO:HA	2.04	0.57
6:cJ:75:ASN:OD1	6:cJ:78:LYS:HG2	2.04	0.57
6:mJ:147:GLN:NE2	6:mJ:151:GLU:OE2	2.37	0.57
5:JK:47:ASN:OD1	5:JK:141:LEU:CD2	2.52	0.57
6:fK:49:GLU:O	6:fK:53:LYS:CD	2.51	0.57
7:DL:15:LYS:O	7:DL:16:ALA:HB3	2.04	0.57
7:HL:127:SER:O	7:HL:131:VAL:CG1	2.52	0.57
6:KL:147:GLN:NE2	6:KL:151:GLU:OE2	2.38	0.57
6:gL:147:GLN:NE2	6:gL:151:GLU:OE2	2.37	0.57
6:mL:98:VAL:HG21	7:nL:19:VAL:CG2	2.34	0.57
6:uL:147:GLN:NE2	6:uL:151:GLU:OE2	2.38	0.57
16:wL:47:ARG:HE	16:wL:48:MET:H	1.52	0.57
15:bM:93:GLU:HG2	6:IM:115:GLU:OE2	2.04	0.57
6:UM:20:SER:OG	6:UM:21:ASN:N	2.37	0.57
6:IM:20:SER:OG	6:IM:21:ASN:N	2.37	0.57
6:KN:37:ARG:HD2	6:KN:97:LEU:O	2.02	0.57
20:AP:72:ALA:HA	20:AP:77:MET:HB3	1.85	0.57
21:HP:18:TYR:CD1	25:YP:157:ARG:HD3	2.38	0.57
20:NP:72:ALA:HA	20:NP:77:MET:HB3	1.85	0.57
20:TP:72:ALA:HA	20:TP:77:MET:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:nP:27:LEU:HD11	22:xP:97:LEU:HD21	1.86	0.57
21:sP:34:GLY:HA3	20:tP:30:VAL:HG11	1.86	0.57
6:GQ:84:ARG:NH1	6:GQ:85:ASP:OD1	2.37	0.57
6:IQ:16:GLY:HA3	14:MQ:262:GLY:O	2.04	0.57
7:JQ:90:LEU:O	7:JQ:94:SER:OG	2.22	0.57
7:TR:59:MET:HE1	29:TR:201:PEB:H2A1	1.86	0.57
6:WR:81:LYS:HD3	29:WR:201:PEB:HAB2	1.86	0.57
8:e2:147:PHE:CD1	8:e2:159:LEU:CD1	2.84	0.57
6:A3:102:THR:HG22	6:A3:155:TYR:CE1	2.39	0.57
7:C4:135:LYS:HZ3	7:C4:169:PHE:HB2	1.69	0.57
7:C4:160:SER:O	7:C4:163:SER:OG	2.21	0.57
6:D4:100:GLY:O	6:D4:155:TYR:OH	2.21	0.57
7:G4:62:GLU:OE2	7:G4:129:ARG:HD3	2.03	0.57
6:J4:49:GLU:HA	6:J4:52:VAL:HG22	1.86	0.57
6:J4:70:GLY:N	6:J4:74:GLU:OE1	2.37	0.57
6:J5:64:ALA:HB1	20:NP:41:GLN:HE22	1.69	0.57
12:E5:120:TYR:CD2	7:Y9:156:GLY:CA	2.74	0.57
13:k6:139:LEU:CD1	32:k6:301:PMS:O2S	2.52	0.57
13:k6:259:SER:HB3	6:U7:67:LYS:HZ1	1.69	0.57
3:B7:228:MET:SD	20:rP:59:PHE:HE2	2.26	0.57
4:E7:122:PHE:CD2	31:E7:1001:CYC:HAA2	2.39	0.57
7:e7:35:ASN:O	7:e7:39:ASP:HB2	2.04	0.57
7:I8:24:LEU:HA	19:zJ:291:ILE:HG23	1.86	0.57
6:l9:90:MET:O	6:l9:93:VAL:CG1	2.51	0.57
6:IA:25:GLU:CD	6:KA:33:ARG:HG3	2.28	0.57
6:QB:54:GLU:OE1	29:QB:204:PEB:C2C	2.52	0.57
6:aB:54:GLU:OE1	29:aB:202:PEB:CAC	2.51	0.57
6:jB:20:SER:OG	6:jB:21:ASN:N	2.37	0.57
7:FC:116:THR:O	7:FC:120:LEU:HB2	2.03	0.57
6:BD:4:VAL:O	6:BD:7:THR:OG1	2.18	0.57
6:BD:70:GLY:N	6:BD:74:GLU:OE1	2.37	0.57
29:CD:202:PEB:OD	6:DD:33:ARG:HD2	2.04	0.57
6:AE:17:ARG:NH2	6:CE:158:TYR:OH	2.33	0.57
29:LE:201:PEB:CBB	18:ME:219:SER:CB	2.82	0.57
18:ME:214:ASP:C	18:ME:216:ARG:H	2.12	0.57
18:ME:303:PHE:CG	6:gL:83:TYR:HE2	2.15	0.57
18:ME:303:PHE:CE1	6:gL:53:LYS:HB2	2.35	0.57
4:GF:100:VAL:CG1	5:HF:27:LEU:HD13	2.34	0.57
6:OF:17:ARG:O	7:PF:95:TYR:OH	2.17	0.57
6:QF:33:ARG:HH22	6:QF:147:GLN:HG3	1.69	0.57
7:eF:107:ASP:OD1	7:eF:107:ASP:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:90:LEU:O	7:FG:94:SER:OG	2.22	0.57
7:HG:111:ASN:O	14:MG:295:PHE:CZ	2.57	0.57
6:IG:2:LYS:HZ3	14:MG:253:GLY:C	2.11	0.57
6:KG:14:ALA:HB1	30:MG:402:PUB:CMA	2.34	0.57
7:LG:54:ASP:HB2	29:LG:203:PEB:HBA1	1.86	0.57
6:CJ:147:GLN:NE2	6:CJ:151:GLU:OE2	2.37	0.57
7:LJ:26:ALA:CA	28:4P:231:ILE:CD1	2.82	0.57
6:OJ:147:GLN:NE2	6:OJ:151:GLU:OE2	2.38	0.57
6:sJ:75:ASN:OD1	6:sJ:78:LYS:HG2	2.04	0.57
1:XK:146:ARG:NH2	1:XK:245:ASP:O	2.37	0.57
4:EK:16:GLY:O	5:FK:91:ARG:NE	2.36	0.57
5:NK:47:ASN:OD1	5:NK:141:LEU:CD2	2.51	0.57
29:ZK:203:PEB:NB	29:ZK:203:PEB:NC	2.50	0.57
29:jK:202:PEB:NC	29:jK:202:PEB:NB	2.50	0.57
6:CL:72:ALA:HB3	29:CL:201:PEB:HMA2	1.86	0.57
6:KL:47:ASN:ND2	29:KL:202:PEB:C4D	2.58	0.57
6:QL:147:GLN:NE2	6:QL:151:GLU:OE2	2.37	0.57
7:RL:114:LYS:HZ1	7:RL:177:SER:C	2.10	0.57
6:SL:147:GLN:NE2	6:SL:151:GLU:OE2	2.38	0.57
6:WL:147:GLN:NE2	6:WL:151:GLU:OE2	2.38	0.57
6:qL:75:ASN:OD1	6:qL:78:LYS:HG2	2.04	0.57
6:hM:135:ARG:HD2	6:hM:157:ASP:OD1	1.99	0.57
6:EN:140:VAL:HG13	6:EN:149:GLY:HA3	1.86	0.57
6:KN:108:TRP:HZ3	7:LN:13:ASP:OD2	1.87	0.57
7:LN:25:GLN:HA	7:LN:28:LYS:HD2	1.86	0.57
21:DP:15:GLN:HG2	23:WP:133:ILE:HB	1.85	0.57
23:WP:140:LYS:HD3	23:WP:161:PHE:HB2	1.86	0.57
25:YP:21:SER:HB2	25:YP:46:PHE:HE2	1.69	0.57
21:nP:24:VAL:HA	22:xP:37:ILE:HD11	1.86	0.57
25:1P:809:ILE:HD13	25:1P:821:MET:HG3	1.85	0.57
6:AQ:27:ILE:HD11	7:BQ:38:LEU:HD11	1.86	0.57
6:AQ:31:ILE:O	6:AQ:34:SER:OG	2.20	0.57
6:KQ:31:ILE:O	6:KQ:34:SER:OG	2.19	0.57
8:eR:57:PHE:CZ	7:TR:77:ARG:HA	2.38	0.57
6:MR:44:LEU:HA	29:MR:202:PEB:HBD2	1.85	0.57
6:OR:37:ARG:HH12	6:OR:100:GLY:HA3	1.67	0.57
7:RR:75:THR:OG1	6:UR:108:TRP:O	2.22	0.57
6:S1:49:GLU:O	6:S1:53:LYS:CD	2.51	0.57
29:e2:402:PEB:H2A1	7:X2:59:MET:HE1	1.87	0.57
6:M2:33:ARG:HD3	6:M2:151:GLU:OE2	2.03	0.57
7:N2:59:MET:HE1	29:N2:201:PEB:H2A1	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:6:THR:O	6:A3:10:SER:OG	2.23	0.57
7:E4:65:GLY:O	7:E4:68:SER:OG	2.15	0.57
6:F4:70:GLY:N	6:F4:74:GLU:OE1	2.37	0.57
7:K4:106:GLU:HA	7:K4:110:LEU:HB2	1.86	0.57
6:L4:20:SER:N	6:L4:23:ASP:OD2	2.29	0.57
7:I5:28:LYS:HB3	19:zL:290:LEU:C	2.29	0.57
7:K5:49:SER:O	7:K5:53:SER:OG	2.23	0.57
13:k6:61:ARG:HH11	7:V7:150:LYS:CE	2.17	0.57
6:J8:3:SER:OG	6:J8:4:VAL:N	2.34	0.57
1:X9:263:THR:CB	5:D9:115:GLU:CD	2.77	0.57
5:J9:110:LEU:O	26:ZP:48:LEU:HD11	2.03	0.57
6:b9:43:LYS:NZ	6:b9:143:ASP:O	2.35	0.57
6:AA:5:ILE:HD11	6:AA:27:ILE:HB	1.87	0.57
6:GA:96:CYS:HA	6:GA:99:VAL:HG22	1.85	0.57
15:bB:355:LEU:CD2	6:MB:53:LYS:HZ2	1.92	0.57
6:KB:20:SER:OG	6:KB:21:ASN:N	2.36	0.57
6:MB:9:VAL:HG13	7:NB:95:TYR:CD1	2.39	0.57
7:PB:85:ASP:OD2	7:PB:117:TYR:OH	2.17	0.57
6:UB:20:SER:OG	6:UB:21:ASN:N	2.37	0.57
6:WB:54:GLU:OE1	29:WB:202:PEB:CAC	2.51	0.57
7:FC:134:MET:HA	7:FC:137:GLN:HE21	1.69	0.57
7:JC:134:MET:HA	7:JC:137:GLN:HE21	1.69	0.57
7:JE:116:THR:O	7:JE:120:LEU:HB2	2.03	0.57
7:JE:134:MET:HA	7:JE:137:GLN:HE21	1.69	0.57
18:ME:232:MET:HE1	29:SI:202:PEB:HAB1	0.58	0.57
18:ME:303:PHE:CD1	6:gL:53:LYS:HA	2.39	0.57
3:BF:169:GLN:HG2	5:LF:77:ARG:HH22	1.69	0.57
6:IG:111:ALA:CB	14:MG:252:TYR:CZ	2.87	0.57
4:GI:100:VAL:CG1	5:HI:27:LEU:HD13	2.34	0.57
7:YI:12:SER:HA	7:YI:15:LYS:HG3	1.85	0.57
7:aI:12:SER:HA	7:aI:15:LYS:HG3	1.85	0.57
7:gI:33:ASP:CG	7:gI:36:LYS:HD3	2.29	0.57
7:mI:33:ASP:HB2	7:mI:36:LYS:HD3	1.86	0.57
7:LJ:62:GLU:OE2	19:zJ:314:ARG:NH2	2.37	0.57
6:SJ:33:ARG:HD3	6:SJ:151:GLU:OE2	2.03	0.57
3:BK:203:ILE:CG2	20:lP:82:LEU:CD1	2.78	0.57
5:DK:89:VAL:HG23	5:DK:134:MET:HE1	1.84	0.57
5:FK:39:ASP:OD2	29:FK:1002:PEB:CHA	2.40	0.57
5:JK:33:GLU:CG	5:JK:156:LEU:HD11	2.33	0.57
7:VK:170:ASP:HB2	14:MN:97:PHE:HB3	1.83	0.57
6:AL:75:ASN:OD1	6:AL:78:LYS:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HL:25:GLN:CG	7:HL:26:ALA:N	2.58	0.57
7:JL:5:PHE:CZ	7:JL:31:ILE:CD1	2.87	0.57
6:WL:73:GLY:H	29:WL:202:PEB:HMA2	1.68	0.57
6:aL:44:LEU:HD22	6:aL:152:PHE:HE1	1.69	0.57
6:kL:6:THR:O	6:kL:10:SER:OG	2.23	0.57
6:sL:6:THR:HB	16:xL:81:VAL:CG1	2.35	0.57
16:xL:47:ARG:HE	16:xL:48:MET:H	1.52	0.57
30:yL:303:PUB:HBA3	30:yL:303:PUB:HHA2	1.86	0.57
6:CM:54:GLU:HG3	29:CM:202:PEB:CAC	2.20	0.57
6:WM:28:GLN:O	6:WM:32:GLN:NE2	2.37	0.57
6:WM:54:GLU:OE1	29:WM:202:PEB:CAC	2.51	0.57
6:jM:33:ARG:NH1	6:jM:147:GLN:NE2	2.47	0.57
7:FN:1:MET:SD	14:MN:199:GLU:OE2	2.62	0.57
6:KN:42:GLU:HB3	7:LN:21:GLY:H	1.69	0.57
6:KN:43:LYS:HE2	6:KN:144:MET:HB3	1.86	0.57
6:AO:102:THR:HG22	6:AO:155:TYR:CE1	2.39	0.57
20:AP:94:TYR:CE2	21:BP:13:ASP:HB2	2.39	0.57
20:TP:107:ILE:CD1	27:3P:38:TYR:HB3	2.28	0.57
20:rP:5:THR:OG1	21:wP:3:ASP:OD1	2.07	0.57
20:rP:72:ALA:HA	20:rP:77:MET:HB3	1.85	0.57
7:DQ:90:LEU:O	7:DQ:94:SER:OG	2.22	0.57
7:DQ:94:SER:HA	7:DQ:97:LEU:HB2	1.87	0.57
7:NR:79:MET:HB3	6:QR:116:VAL:CG2	2.34	0.57
7:PR:84:ARG:O	7:PR:87:GLU:CG	2.52	0.57
5:F1:20:SER:H	5:F1:23:GLN:NE2	2.02	0.57
7:V1:159:THR:OG1	14:MA:103:ARG:HB3	2.04	0.57
6:l1:135:ARG:NH1	6:l1:157:ASP:OD2	2.34	0.57
6:M2:26:SER:HB3	6:O2:26:SER:HB3	1.85	0.57
6:C3:6:THR:O	6:C3:10:SER:OG	2.23	0.57
6:K3:6:THR:O	6:K3:10:SER:OG	2.23	0.57
7:L3:4:ALA:HB1	7:K5:76:ASN:HD22	1.69	0.57
10:d4:270:ARG:CD	7:M4:78:ARG:NH2	2.63	0.57
6:B4:49:GLU:HA	6:B4:52:VAL:HG22	1.86	0.57
7:C4:36:LYS:HZ1	29:C4:202:PEB:HBB2	1.69	0.57
7:M4:132:SER:HA	7:M4:135:LYS:HB2	1.85	0.57
7:K5:108:ARG:NH2	27:aP:276:THR:O	2.37	0.57
12:E5:182:ASN:ND2	6:bI:80:ASN:HD22	1.93	0.57
13:k6:139:LEU:O	13:k6:141:PHE:HD1	1.86	0.57
2:A7:81:PHE:HB3	2:A7:165:LEU:HD13	1.86	0.57
5:D7:74:TYR:O	5:D7:78:ARG:HB2	2.04	0.57
3:B9:187:GLU:CG	27:3P:227:PRO:HG3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q9:76:GLN:HE22	4:EK:53:THR:HB	1.69	0.57
7:c9:35:ASN:O	7:c9:39:ASP:HB2	2.04	0.57
6:j9:43:LYS:NZ	6:j9:143:ASP:O	2.35	0.57
6:EA:139:CYS:SG	6:EA:142:ARG:NH1	2.76	0.57
6:KA:42:GLU:HB3	7:LA:21:GLY:H	1.69	0.57
14:MA:236:TYR:HA	14:MA:239:LYS:HZ3	1.69	0.57
7:HB:129:ARG:HD3	7:VB:15:LYS:HE2	1.85	0.57
7:JB:85:ASP:OD2	29:JB:201:PEB:NC	2.34	0.57
6:hB:20:SER:OG	6:hB:21:ASN:N	2.37	0.57
7:HC:116:THR:O	7:HC:120:LEU:HB2	2.04	0.57
18:MC:52:GLU:O	18:MC:185:ARG:NH1	2.38	0.57
7:GD:76:ASN:ND2	6:JD:113:ALA:HA	2.18	0.57
6:HD:4:VAL:O	6:HD:8:VAL:HG13	2.04	0.57
6:HD:49:GLU:HA	6:HD:52:VAL:HG22	1.86	0.57
7:ID:106:GLU:HA	7:ID:110:LEU:HB2	1.86	0.57
7:LE:51:MET:HE1	7:LE:137:GLN:CG	2.29	0.57
18:ME:229:GLU:HG2	18:ME:242:LYS:HE3	1.82	0.57
5:HF:11:GLN:HE22	7:YF:128:ILE:HD12	1.69	0.57
6:AG:84:ARG:NH1	6:AG:85:ASP:OD1	2.38	0.57
6:CG:84:ARG:NH1	6:CG:85:ASP:OD1	2.38	0.57
6:EG:84:ARG:NH1	6:EG:85:ASP:OD1	2.38	0.57
7:HG:58:GLY:HA2	29:HG:203:PEB:C2D	2.32	0.57
13:kH:3:ALA:O	13:kH:4:LYS:HE3	2.04	0.57
13:kH:122:ILE:O	13:kH:122:ILE:HG22	2.04	0.57
7:JJ:5:PHE:CZ	7:JJ:31:ILE:CD1	2.87	0.57
6:aJ:147:GLN:NE2	6:aJ:151:GLU:OE2	2.37	0.57
16:xJ:102:ALA:CA	16:xJ:105:ARG:HG3	2.33	0.57
4:IK:3:THR:CG2	4:IK:101:VAL:HB	2.33	0.57
6:eL:147:GLN:NE2	6:eL:151:GLU:OE2	2.37	0.57
6:kL:147:GLN:NE2	6:kL:151:GLU:OE2	2.38	0.57
15:bM:272:TYR:O	7:FM:70:GLY:HA2	2.05	0.57
29:AM:302:PEB:HBD1	29:kM:201:PEB:HBC2	1.86	0.57
17:BM:188:GLN:OE1	17:BM:291:ARG:NH2	2.36	0.57
6:CM:20:SER:OG	6:CM:21:ASN:N	2.37	0.57
6:GM:138:LEU:CD1	29:GM:202:PEB:HMD1	2.34	0.57
6:QM:54:GLU:OE1	29:QM:204:PEB:C2C	2.52	0.57
6:hM:28:GLN:O	6:hM:32:GLN:NE2	2.37	0.57
6:AN:43:LYS:HE2	6:AN:144:MET:HB3	1.85	0.57
6:AN:96:CYS:HA	6:AN:99:VAL:HG22	1.85	0.57
7:FN:25:GLN:HA	7:FN:28:LYS:HD2	1.86	0.57
20:AP:35:ARG:HG3	20:AP:38:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:aP:270:ARG:HH11	27:aP:270:ARG:CG	2.14	0.57
21:dP:72:MET:HE2	21:dP:78:TYR:CD2	2.40	0.57
20:lP:72:ALA:HA	20:lP:77:MET:HB3	1.85	0.57
20:tP:72:ALA:HA	20:tP:77:MET:HB3	1.85	0.57
20:vP:32:SER:HB2	27:3P:153:PHE:CD2	2.39	0.57
22:xP:55:SER:O	22:xP:58:ILE:HG22	2.05	0.57
24:zP:57:ILE:HG23	24:zP:102:TYR:CD2	2.39	0.57
7:HQ:90:LEU:O	7:HQ:94:SER:OG	2.22	0.57
8:eR:218:TYR:HB2	29:TR:201:PEB:OD	2.04	0.57
7:NR:54:ASP:OD1	7:NR:137:GLN:NE2	2.37	0.57
7:RR:59:MET:HE1	29:RR:201:PEB:H2A1	1.87	0.57
3:B1:16:ARG:CZ	31:N1:1001:CYC:CBB	2.83	0.57
4:C1:67:THR:OG1	4:C1:68:GLN:OE1	2.17	0.57
5:J1:33:GLU:CG	5:J1:156:LEU:HD11	2.33	0.57
5:N1:5:PHE:CD1	5:N1:27:LEU:CD2	2.88	0.57
7:P1:46:SER:CB	6:Q1:157:ASP:OD2	2.53	0.57
6:W1:48:HIS:O	6:W1:52:VAL:CG2	2.42	0.57
6:b1:135:ARG:NH1	6:b1:157:ASP:OD2	2.34	0.57
7:N2:79:MET:HB3	6:Q2:116:VAL:CG2	2.34	0.57
7:R2:42:ASN:HA	7:R2:45:VAL:HG22	1.86	0.57
6:U2:137:ARG:HH21	29:U2:202:PEB:C1C	2.17	0.57
7:B3:120:LEU:HD23	7:B3:122:VAL:CG2	2.35	0.57
6:E3:99:VAL:HG12	6:E3:101:GLY:H	1.69	0.57
10:d4:275:GLN:OE1	10:d4:275:GLN:N	2.37	0.57
7:I5:158:CYS:SG	29:I5:202:PEB:HBA1	2.37	0.57
6:J5:64:ALA:CB	20:NP:41:GLN:NE2	2.63	0.57
4:K7:57:GLN:NE2	5:JF:145:THR:O	2.37	0.57
7:I8:79:MET:CG	15:bM:229:LEU:CG	2.74	0.57
3:B9:57:GLU:HA	3:B9:60:ILE:CG1	2.23	0.57
4:E9:122:PHE:CD2	31:E9:1001:CYC:HAA1	2.38	0.57
6:Q9:49:GLU:HG2	4:EK:46:GLY:C	2.29	0.57
6:EA:17:ARG:NH2	6:EA:20:SER:OG	2.38	0.57
6:GA:17:ARG:NH2	6:GA:20:SER:OG	2.38	0.57
6:GA:43:LYS:HE2	6:GA:144:MET:HB3	1.85	0.57
6:IA:140:VAL:HG13	6:IA:149:GLY:HA3	1.86	0.57
6:OB:54:GLU:OE1	29:OB:202:PEB:CAC	2.51	0.57
6:AC:25:GLU:OE2	6:CC:33:ARG:HB2	2.04	0.57
18:MC:303:PHE:HB3	6:gJ:83:TYR:CD2	2.40	0.57
10:dD:275:GLN:N	10:dD:275:GLN:OE1	2.37	0.57
6:BD:89:TYR:OH	6:BD:117:TYR:OH	2.21	0.57
7:CD:160:SER:O	7:CD:163:SER:OG	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:4:VAL:O	6:DD:8:VAL:HG13	2.04	0.57
6:DD:70:GLY:N	6:DD:74:GLU:OE1	2.37	0.57
7:MD:9:VAL:O	7:MD:12:SER:OG	2.19	0.57
7:DE:77:ARG:HH11	18:ME:44:PRO:HB2	1.69	0.57
7:PF:2:LEU:HD23	7:PF:6:SER:OG	2.04	0.57
7:mF:33:ASP:HB2	7:mF:36:LYS:HD3	1.86	0.57
7:FG:57:SER:O	7:FG:60:ILE:HG23	2.05	0.57
7:JG:90:LEU:O	7:JG:94:SER:OG	2.22	0.57
6:KG:84:ARG:NH1	6:KG:85:ASP:OD1	2.38	0.57
13:kH:172:LYS:HB3	13:kH:172:LYS:HZ3	1.69	0.57
5:HI:11:GLN:HE22	7:YI:128:ILE:HD12	1.69	0.57
6:GJ:68:ASN:HB3	6:GJ:69:PRO:HD3	1.82	0.57
6:GJ:147:GLN:NE2	6:GJ:151:GLU:OE2	2.37	0.57
7:LJ:30:PHE:HB2	28:4P:228:ILE:CD1	2.34	0.57
6:UJ:70:GLY:CA	6:UJ:74:GLU:CG	2.82	0.57
6:WJ:75:ASN:OD1	6:WJ:78:LYS:HG2	2.04	0.57
6:cJ:6:THR:O	6:cJ:10:SER:OG	2.23	0.57
6:sJ:6:THR:O	6:sJ:10:SER:OG	2.23	0.57
29:QK:202:PEB:NB	29:QK:202:PEB:NC	2.50	0.57
6:SL:75:ASN:OD1	6:SL:78:LYS:HG2	2.04	0.57
7:VL:114:LYS:HE2	7:VL:177:SER:OXT	2.04	0.57
6:YL:6:THR:O	6:YL:10:SER:OG	2.23	0.57
6:cL:147:GLN:NE2	6:cL:151:GLU:OE2	2.37	0.57
6:iL:147:GLN:NE2	6:iL:151:GLU:OE2	2.37	0.57
7:gM:61:CYS:HB2	29:gM:203:PEB:HAD1	1.70	0.57
6:hM:36:ALA:HB2	6:hM:147:GLN:HG3	1.87	0.57
6:AN:5:ILE:HD11	6:AN:27:ILE:HB	1.87	0.57
6:CN:17:ARG:NH2	6:CN:20:SER:OG	2.38	0.57
6:GN:17:ARG:NH2	6:GN:20:SER:OG	2.38	0.57
6:IN:25:GLU:OE2	6:KN:33:ARG:HB2	2.05	0.57
7:BO:120:LEU:HD23	7:BO:122:VAL:CG2	2.35	0.57
6:CO:99:VAL:HG12	6:CO:101:GLY:H	1.69	0.57
7:LO:114:LYS:HD3	7:LO:176:ILE:HA	1.86	0.57
20:KP:35:ARG:HG3	20:KP:38:ARG:NH2	2.20	0.57
20:PP:35:ARG:HG3	20:PP:38:ARG:NH2	2.20	0.57
20:TP:35:ARG:HG3	20:TP:38:ARG:NH2	2.20	0.57
23:WP:33:THR:O	23:WP:37:ARG:HG3	2.03	0.57
21:nP:31:PHE:CD2	22:xP:33:GLY:HA3	2.40	0.57
20:rP:31:LEU:HB3	26:2P:119:ALA:CB	2.35	0.57
7:BQ:90:LEU:O	7:BQ:94:SER:OG	2.22	0.57
7:HQ:141:PHE:CD2	29:HQ:203:PEB:HMB3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LQ:112:GLY:H	14:MQ:232:LYS:HZ2	1.53	0.57
5:H1:40:ILE:HG12	29:H1:1002:PEB:HBA1	1.82	0.57
5:J1:12:ALA:HB2	5:J1:19:LEU:HD21	1.87	0.57
5:L1:68:GLN:OE1	15:bB:347:ALA:HB2	2.03	0.57
7:R2:84:ARG:O	7:R2:87:GLU:N	2.37	0.57
7:T2:59:MET:HE1	29:T2:201:PEB:H2A1	1.86	0.57
7:D3:114:LYS:HD3	7:D3:176:ILE:HA	1.86	0.57
7:F3:110:LEU:HD11	7:F3:172:VAL:HG23	1.85	0.57
7:N3:87:GLU:O	7:N3:91:ARG:CG	2.50	0.57
7:N3:107:ASP:OD1	7:N3:108:ARG:N	2.33	0.57
10:d4:81:GLN:O	10:d4:84:GLY:N	2.34	0.57
6:F4:20:SER:N	6:F4:23:ASP:OD2	2.29	0.57
7:I5:28:LYS:HB3	19:zL:291:ILE:CA	2.32	0.57
3:B7:20:PHE:CE2	5:J7:84:ARG:HG2	2.39	0.57
3:B7:209:GLN:HG2	27:3P:55:TYR:CG	2.40	0.57
7:i7:35:ASN:O	7:i7:39:ASP:HB2	2.04	0.57
6:l7:90:MET:C	6:l7:93:VAL:HG12	2.30	0.57
6:U9:83:TYR:HD2	13:kH:261:MET:CE	2.11	0.57
6:AA:5:ILE:HD11	6:AA:27:ILE:HD12	1.80	0.57
6:AA:17:ARG:NH2	6:AA:20:SER:OG	2.38	0.57
6:KA:17:ARG:NH2	6:KA:20:SER:OG	2.38	0.57
14:MA:102:LYS:HA	14:MA:102:LYS:HE2	1.85	0.57
15:bB:305:TRP:CZ2	7:FB:125:ASN:HB3	2.39	0.57
16:AB:146:PRO:CD	16:AB:147:LYS:N	2.65	0.57
6:EB:28:GLN:O	6:EB:32:GLN:NE2	2.37	0.57
6:jB:28:GLN:O	6:jB:32:GLN:NE2	2.37	0.57
10:dD:291:ILE:CG2	4:EI:49:GLN:HG2	2.34	0.57
6:DD:20:SER:N	6:DD:23:ASP:OD2	2.29	0.57
7:KD:106:GLU:HA	7:KD:110:LEU:HB2	1.86	0.57
7:MD:130:ALA:O	7:MD:133:ILE:HG22	2.05	0.57
7:MD:160:SER:O	7:MD:164:GLU:HG3	2.05	0.57
7:FE:134:MET:HA	7:FE:137:GLN:HE21	1.69	0.57
18:ME:52:GLU:O	18:ME:185:ARG:NH1	2.38	0.57
18:ME:304:TRP:CE3	18:ME:304:TRP:N	2.73	0.57
7:TF:82:CYS:HA	29:TF:201:PEB:HAA1	1.87	0.57
7:iF:12:SER:HA	7:iF:15:LYS:HG3	1.85	0.57
6:CG:33:ARG:HB3	6:CG:37:ARG:HG2	1.87	0.57
7:FG:94:SER:HA	7:FG:97:LEU:HB2	1.87	0.57
7:FG:137:GLN:HE22	29:FG:203:PEB:HHA1	0.96	0.57
6:GG:84:ARG:NH1	6:GG:85:ASP:OD1	2.37	0.57
7:LG:94:SER:HA	7:LG:97:LEU:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:35:THR:O	6:ZI:118:ARG:NH2	2.37	0.57
6:CJ:72:ALA:HB3	29:CJ:201:PEB:HMA2	1.86	0.57
7:DJ:18:TYR:N	7:DJ:18:TYR:CD1	2.73	0.57
6:gJ:147:GLN:NE2	6:gJ:151:GLU:OE2	2.37	0.57
6:iJ:147:GLN:NE2	6:iJ:151:GLU:OE2	2.37	0.57
6:mJ:6:THR:O	6:mJ:10:SER:OG	2.23	0.57
7:tJ:91:ARG:NH2	16:xJ:90:THR:HG23	2.19	0.57
16:xJ:45:SER:O	16:xJ:45:SER:OG	2.22	0.57
17:yJ:215:THR:HG23	17:yJ:217:SER:H	1.69	0.57
19:zJ:332:LEU:N	20:pP:67:SER:HG	1.87	0.57
2:AK:284:ARG:HD2	29:AK:303:PEB:HMA2	1.86	0.57
29:UK:203:PEB:NB	29:UK:203:PEB:NC	2.50	0.57
7:DL:18:TYR:CD1	7:DL:18:TYR:N	2.73	0.57
7:LL:62:GLU:OE2	19:zL:314:ARG:NH2	2.37	0.57
6:oL:108:TRP:CH2	7:pL:10:VAL:HA	2.35	0.57
6:sL:147:GLN:NE2	6:sL:151:GLU:OE2	2.38	0.57
17:yL:189:ARG:NH1	29:yL:301:PEB:O1B	2.38	0.57
17:BM:181:THR:HB	29:BM:301:PEB:HBA3	1.72	0.57
6:IM:50:ALA:O	6:IM:54:GLU:HG2	2.04	0.57
6:OM:54:GLU:OE1	29:OM:202:PEB:CAC	2.51	0.57
6:QM:28:GLN:O	6:QM:32:GLN:NE2	2.37	0.57
6:QM:54:GLU:OE1	29:QM:204:PEB:CAC	2.47	0.57
6:AN:5:ILE:HD12	6:AN:27:ILE:CD1	2.24	0.57
6:EO:99:VAL:HG12	6:EO:101:GLY:H	1.69	0.57
7:HO:120:LEU:HD22	29:HO:201:PEB:HBB1	1.85	0.57
21:BP:83:ARG:HG3	25:YP:614:TYR:CZ	2.40	0.57
20:mP:107:ILE:HD13	21:qP:13:ASP:CG	2.30	0.57
25:1P:513:GLY:CA	25:1P:520:ARG:HG2	2.35	0.57
7:LQ:94:SER:HA	7:LQ:97:LEU:HB2	1.87	0.57
14:MQ:235:GLU:OE2	14:MQ:239:LYS:NZ	2.37	0.57
6:MR:137:ARG:NH2	29:MR:202:PEB:C4B	2.67	0.57
7:PR:42:ASN:HA	7:PR:45:VAL:HG22	1.86	0.57
7:VR:25:GLN:O	7:VR:29:SER:OG	2.20	0.57
6:WR:43:LYS:O	29:WR:202:PEB:HBD1	2.05	0.57
3:B1:54:ILE:O	3:B1:113:ARG:NH1	2.35	0.57
3:B1:204:ARG:CD	3:B1:204:ARG:H	2.17	0.57
4:E1:46:GLY:O	6:Q7:49:GLU:CG	2.52	0.57
6:M2:84:ARG:NH2	29:M2:201:PEB:O1C	2.38	0.57
7:P2:42:ASN:HA	7:P2:45:VAL:HG22	1.86	0.57
29:S2:201:PEB:HMC3	7:X2:79:MET:HG3	1.85	0.57
7:V2:38:LEU:HD12	29:V2:202:PEB:ND	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:42:GLU:HG3	7:B3:24:LEU:HD13	1.86	0.57
6:A3:54:GLU:OE1	29:A3:202:PEB:HMC1	2.05	0.57
7:D3:120:LEU:HD22	29:D3:201:PEB:HBB1	1.85	0.57
6:G3:6:THR:O	6:G3:10:SER:OG	2.23	0.57
6:I3:6:THR:O	6:I3:10:SER:OG	2.23	0.57
6:F4:142:ARG:HH22	29:F4:202:PEB:CGC	2.16	0.57
7:G4:36:LYS:HZ3	29:G4:202:PEB:C3B	2.18	0.57
7:G4:130:ALA:O	7:G4:133:ILE:HG22	2.05	0.57
7:M4:160:SER:O	7:M4:164:GLU:HG3	2.05	0.57
7:F5:72:MEN:HE21	7:F5:122:VAL:HG22	1.87	0.57
7:I5:27:LEU:HD23	19:zL:294:GLY:O	2.04	0.57
13:k6:172:LYS:HA	5:H7:158:ALA:HB2	1.87	0.57
3:B7:85:LYS:HD2	3:B7:141:ILE:HG23	1.85	0.57
3:B7:228:MET:SD	20:rP:59:PHE:CE2	2.98	0.57
7:I8:5:PHE:CD1	7:I8:5:PHE:N	2.73	0.57
5:D9:74:TYR:O	5:D9:78:ARG:HB2	2.04	0.57
6:Q9:53:LYS:HZ1	4:EK:50:ARG:N	2.02	0.57
6:AA:13:ASP:HA	7:BA:91:ARG:HH12	1.69	0.57
6:CA:17:ARG:NH2	6:CA:20:SER:OG	2.38	0.57
7:HA:25:GLN:HA	7:HA:28:LYS:HD2	1.86	0.57
17:BB:154:LEU:HD13	17:BB:163:GLU:HB2	1.87	0.57
6:OB:28:GLN:O	6:OB:32:GLN:NE2	2.37	0.57
6:jB:54:GLU:O	6:jB:57:ASP:OD1	2.22	0.57
6:AC:25:GLU:OE1	6:CC:33:ARG:HG3	2.04	0.57
6:DD:142:ARG:HH22	29:DD:202:PEB:CGC	2.16	0.57
7:ID:117:TYR:O	7:ID:121:GLY:N	2.37	0.57
7:ID:117:TYR:CD1	7:ID:122:VAL:HB	2.39	0.57
6:AE:25:GLU:OE2	6:CE:33:ARG:HB2	2.05	0.57
6:EE:33:ARG:NH2	6:GE:28:GLN:HG2	2.20	0.57
3:BF:210:GLU:CA	27:3P:71:VAL:HG23	2.35	0.57
5:LF:68:GLN:OE1	27:3P:110:SER:OG	2.20	0.57
7:VF:33:ASP:CG	7:VF:36:LYS:HD3	2.29	0.57
13:kH:130:GLU:OE1	29:YM:203:PEB:HMB3	1.99	0.57
13:kH:139:LEU:CD1	32:kH:301:PMS:O2S	2.52	0.57
4:GI:145:GLN:HE22	29:JI:1002:PEB:HHC2	1.70	0.57
5:JI:41:VAL:HG21	5:JI:98:ILE:HG22	1.87	0.57
7:TI:12:SER:HA	7:TI:15:LYS:HG3	1.85	0.57
6:GJ:6:THR:O	6:GJ:10:SER:OG	2.23	0.57
6:aJ:6:THR:O	6:aJ:10:SER:OG	2.23	0.57
6:cJ:147:GLN:NE2	6:cJ:151:GLU:OE2	2.37	0.57
6:oJ:6:THR:O	6:oJ:10:SER:OG	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:362:GLY:C	21:nP:62:TYR:CD2	2.79	0.57
3:BK:204:ARG:H	3:BK:204:ARG:CD	2.17	0.57
5:FK:14:ALA:C	7:PK:125:ASN:HD22	2.13	0.57
6:GL:66:LEU:O	6:GL:71:GLU:HB2	2.04	0.57
7:LL:113:LEU:HA	19:zL:219:ASN:OD1	2.05	0.57
6:UL:33:ARG:HE	6:WL:25:GLU:HA	1.70	0.57
6:aL:6:THR:O	6:aL:10:SER:OG	2.23	0.57
6:aL:75:ASN:OD1	6:aL:78:LYS:HG2	2.04	0.57
19:zL:320:PHE:HZ	20:NP:86:ASP:HB3	1.70	0.57
15:bM:202:THR:CG2	15:bM:203:PRO:CD	2.54	0.57
15:bM:318:THR:OG1	20:mP:83:ARG:NH1	2.38	0.57
15:bM:343:PHE:CZ	20:mP:64:ASP:CB	2.87	0.57
6:EM:20:SER:OG	6:EM:21:ASN:N	2.37	0.57
6:GM:90:MET:HE3	6:GM:134:THR:HG21	1.87	0.57
6:WM:20:SER:OG	6:WM:21:ASN:N	2.37	0.57
7:DO:39:ASP:CB	29:DO:202:PEB:HMD2	2.35	0.57
20:PP:50:ILE:HA	20:PP:136:VAL:HG11	1.87	0.57
20:RP:13:ALA:HB3	25:YP:706:LYS:HD3	1.86	0.57
25:YP:827:GLU:O	25:YP:831:ILE:HG22	2.05	0.57
21:fP:148:GLU:HA	21:fP:148:GLU:OE1	2.05	0.57
20:lP:35:ARG:HG3	20:lP:38:ARG:NH2	2.20	0.57
21:oP:148:GLU:OE1	21:oP:148:GLU:HA	2.05	0.57
7:FQ:50:CYS:O	29:FQ:203:PEB:HAA1	1.84	0.57
7:FQ:94:SER:HA	7:FQ:97:LEU:HB2	1.87	0.57
7:JQ:94:SER:HA	7:JQ:97:LEU:HB2	1.87	0.57
7:PR:77:ARG:NE	6:WR:107:GLU:O	2.37	0.57
6:UR:43:LYS:CG	6:UR:144:MET:HE2	2.20	0.57
6:WR:140:VAL:HG13	6:WR:145:SER:O	2.04	0.57
6:WR:142:ARG:NH2	29:WR:202:PEB:C1B	2.68	0.57
3:B1:169:GLN:NE2	5:N1:75:THR:OG1	2.37	0.57
4:E1:67:THR:HG23	13:k6:109:GLU:OE1	2.05	0.57
4:G1:50:ARG:NH2	7:C8:76:ASN:CG	2.63	0.57
7:T1:19:VAL:HG23	7:T1:19:VAL:O	2.04	0.57
7:R2:46:SER:HB2	6:S2:157:ASP:OD2	2.05	0.57
6:I3:99:VAL:HG12	6:I3:101:GLY:H	1.69	0.57
7:N3:66:LEU:HD13	7:VL:155:ALA:CB	2.29	0.57
10:d4:288:ARG:HH21	7:TF:62:GLU:HG2	1.67	0.57
6:B4:20:SER:N	6:B4:23:ASP:OD2	2.29	0.57
6:H4:20:SER:N	6:H4:23:ASP:OD2	2.29	0.57
7:G5:72:MEN:HE21	7:G5:122:VAL:HG22	1.87	0.57
7:C5:53:SER:O	7:C5:57:SER:OG	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:188:ALA:HB2	6:bI:64:ALA:HB1	1.70	0.57
13:k6:122:ILE:O	13:k6:122:ILE:HG22	2.04	0.57
1:X7:263:THR:CB	5:D7:115:GLU:CD	2.77	0.57
2:A7:251:ARG:HE	2:A7:277:PRO:HG2	1.70	0.57
3:B7:219:ALA:HA	3:B7:222:LEU:HD23	1.86	0.57
4:E7:122:PHE:CD2	31:E7:1001:CYC:HAA1	2.38	0.57
4:G7:73:ALA:CB	4:G7:123:ASP:OD1	2.53	0.57
4:I7:112:VAL:O	4:I7:112:VAL:HG13	2.04	0.57
7:a7:87:GLU:HA	7:a7:90:LEU:HB3	1.85	0.57
7:I8:53:SER:O	7:I8:57:SER:OG	2.22	0.57
7:K8:53:SER:O	7:K8:57:SER:OG	2.22	0.57
7:K8:142:ILE:CG2	7:K8:162:ALA:HB2	2.33	0.57
6:U9:80:ASN:OD1	13:kH:271:LEU:HD11	2.05	0.57
7:BA:25:GLN:HA	7:BA:28:LYS:HD2	1.86	0.57
6:IB:20:SER:OG	6:IB:21:ASN:N	2.37	0.57
6:IB:50:ALA:O	6:IB:54:GLU:HG2	2.04	0.57
6:AC:23:ASP:HB3	7:BC:98:LEU:HD21	1.85	0.57
7:BC:134:MET:HA	7:BC:137:GLN:HE21	1.69	0.57
7:JC:51:MET:HE1	7:JC:137:GLN:CG	2.29	0.57
18:MC:148:GLU:OE2	18:MC:152:HIS:CE1	2.52	0.57
18:MC:207:PHE:HB3	18:MC:211:SER:O	2.04	0.57
6:JD:90:MET:HA	6:JD:93:VAL:HG22	1.87	0.57
7:BE:134:MET:HA	7:BE:137:GLN:HE21	1.69	0.57
29:LE:201:PEB:HBB1	18:ME:219:SER:CB	2.33	0.57
2:AF:77:ALA:N	7:kF:115:GLU:OE2	2.38	0.57
3:BF:219:ALA:HB3	27:3P:60:ALA:O	2.01	0.57
7:RF:12:SER:HA	7:RF:15:LYS:HG3	1.85	0.57
7:TF:12:SER:HA	7:TF:15:LYS:HG3	1.85	0.57
6:EG:31:ILE:O	6:EG:34:SER:OG	2.19	0.57
3:BI:204:ARG:CZ	21:SP:57:ALA:HB1	2.34	0.57
3:BI:227:GLU:HB2	20:vP:56:GLN:OE1	2.05	0.57
7:kI:12:SER:HA	7:kI:15:LYS:HG3	1.85	0.57
6:KJ:147:GLN:NE2	6:KJ:151:GLU:OE2	2.38	0.57
6:OJ:75:ASN:OD1	6:OJ:78:LYS:HG2	2.04	0.57
6:SJ:147:GLN:NE2	6:SJ:151:GLU:OE2	2.38	0.57
6:kJ:2:LYS:HD2	30:xJ:304:PUB:CGB	2.35	0.57
16:wJ:146:PRO:CD	16:wJ:147:LYS:N	2.68	0.57
17:yJ:189:ARG:NH1	29:yJ:301:PEB:O1B	2.38	0.57
1:XK:118:PHE:HA	1:XK:122:GLN:HB2	1.86	0.57
4:EK:137:LYS:O	4:EK:140:HIS:NE2	2.37	0.57
6:hK:135:ARG:NH1	6:hK:157:ASP:OD2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DL:115:GLU:HA	7:DL:118:ILE:HB	1.87	0.57
7:LL:108:ARG:O	19:zL:218:PRO:HA	2.04	0.57
7:ZL:115:GLU:HA	7:ZL:118:ILE:HB	1.87	0.57
6:gL:6:THR:O	6:gL:10:SER:OG	2.23	0.57
16:xL:102:ALA:CA	16:xL:105:ARG:HG3	2.33	0.57
6:IM:28:GLN:O	6:IM:32:GLN:NE2	2.37	0.57
6:OM:20:SER:OG	6:OM:21:ASN:N	2.37	0.57
7:HO:110:LEU:HD11	7:HO:172:VAL:HG23	1.85	0.57
6:IO:99:VAL:HG12	6:IO:101:GLY:H	1.69	0.57
6:KO:99:VAL:HG12	6:KO:101:GLY:H	1.69	0.57
20:GP:14:GLU:HG2	25:YP:238:LYS:HD3	1.86	0.57
20:KP:50:ILE:HA	20:KP:136:VAL:HG11	1.87	0.57
20:tP:35:ARG:HG3	20:tP:38:ARG:NH2	2.20	0.57
25:1P:243:ASP:OD2	25:1P:355:ALA:HB3	2.05	0.57
6:CQ:33:ARG:HB3	6:CQ:37:ARG:HG2	1.87	0.57
6:CQ:84:ARG:NH1	6:CQ:85:ASP:OD1	2.38	0.57
6:CQ:91:ARG:NH1	7:HQ:74:TYR:OH	2.31	0.57
6:GQ:31:ILE:O	6:GQ:34:SER:OG	2.19	0.57
8:eR:78:LEU:HD12	7:NR:116:THR:HG1	1.63	0.57
7:NR:84:ARG:O	7:NR:87:GLU:N	2.37	0.57
4:C1:157:ALA:O	4:C1:160:THR:HG23	2.05	0.57
5:D1:36:GLN:O	5:D1:40:ILE:HG13	2.04	0.57
4:E1:137:LYS:O	4:E1:140:HIS:NE2	2.37	0.57
6:M2:142:ARG:HD2	29:M2:202:PEB:HBA3	1.86	0.57
6:O2:84:ARG:NH2	29:O2:201:PEB:O1C	2.38	0.57
6:E3:6:THR:O	6:E3:10:SER:OG	2.23	0.57
7:L3:120:LEU:HD22	29:L3:201:PEB:HBB1	1.86	0.57
10:d4:331:GLN:CG	10:dD:335:LEU:HD12	1.97	0.57
10:d4:338:GLU:CD	10:dD:327:SER:HB2	2.30	0.57
6:B4:90:MET:HA	6:B4:93:VAL:HG22	1.87	0.57
7:C4:58:GLY:HA3	29:C4:203:PEB:HMD2	1.86	0.57
7:C4:130:ALA:O	7:C4:133:ILE:HG22	2.05	0.57
6:D4:4:VAL:O	6:D4:8:VAL:HG13	2.04	0.57
6:H4:90:MET:HA	6:H4:93:VAL:HG22	1.87	0.57
6:L4:49:GLU:HA	6:L4:52:VAL:HG22	1.86	0.57
7:I5:7:ARG:NE	28:bP:138:LEU:HD23	2.02	0.57
7:L5:79:MET:HE1	13:k6:233:VAL:CG1	2.35	0.57
7:C5:36:LYS:HG3	29:C5:202:PEB:O1B	2.05	0.57
7:C5:76:ASN:CG	4:GK:50:ARG:NH2	2.63	0.57
12:E5:162:ASN:HB3	29:kI:203:PEB:C1C	2.35	0.57
13:k6:3:ALA:O	13:k6:4:LYS:HE3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:k6:35:ILE:HG21	32:k6:302:PMS:H6	1.87	0.57
13:k6:183:TYR:HB2	5:H7:140:ALA:HB2	1.85	0.57
29:l7:202:PEB:HMA1	12:E8:233:TYR:OH	2.04	0.57
7:L8:72:MEN:HE21	7:L8:122:VAL:HG22	1.87	0.57
7:C8:49:SER:O	7:C8:53:SER:OG	2.22	0.57
4:I9:112:VAL:O	4:I9:112:VAL:HG13	2.04	0.57
6:IA:25:GLU:OE2	6:KA:33:ARG:HB2	2.05	0.57
6:IA:43:LYS:HE2	6:IA:144:MET:HB3	1.86	0.57
6:KA:140:VAL:HG13	6:KA:149:GLY:HA3	1.86	0.57
7:eB:63:ASN:C	7:eB:65:GLY:N	2.63	0.57
7:BC:116:THR:O	7:BC:120:LEU:HB2	2.03	0.57
7:CD:61:CYS:C	29:CD:203:PEB:HBD2	2.29	0.57
7:GD:135:LYS:HZ3	7:GD:169:PHE:HB2	1.69	0.57
7:ID:130:ALA:O	7:ID:133:ILE:HG22	2.05	0.57
7:KD:130:ALA:O	7:KD:133:ILE:HG22	2.05	0.57
6:LD:147:GLN:O	6:LD:150:VAL:N	2.29	0.57
7:MD:106:GLU:HA	7:MD:110:LEU:HB2	1.86	0.57
3:BF:13:GLN:OE1	3:BF:15:GLN:NE2	2.35	0.57
5:HF:41:VAL:HG21	5:HF:98:ILE:HG22	1.87	0.57
14:MG:256:THR:O	14:MG:258:SER:N	2.34	0.57
13:kH:181:LEU:O	13:kH:184:VAL:HG12	2.04	0.57
1:XI:291:THR:HG1	5:DI:108:ARG:HH21	1.50	0.57
2:AI:77:ALA:N	7:kI:115:GLU:OE2	2.38	0.57
5:NI:148:THR:HG21	29:NI:1002:PEB:HMA3	1.87	0.57
7:PI:2:LEU:HD23	7:PI:6:SER:OG	2.04	0.57
6:CJ:94:ASN:ND2	7:DJ:18:TYR:HB3	2.19	0.57
6:EJ:147:GLN:NE2	6:EJ:151:GLU:OE2	2.37	0.57
6:QJ:147:GLN:NE2	6:QJ:151:GLU:OE2	2.37	0.57
7:nJ:1:MET:HG2	16:xJ:194:VAL:CG2	2.24	0.57
6:CL:147:GLN:NE2	6:CL:151:GLU:OE2	2.37	0.57
7:dL:115:GLU:HA	7:dL:118:ILE:HB	1.87	0.57
6:mL:6:THR:O	6:mL:10:SER:OG	2.23	0.57
6:oL:147:GLN:NE2	6:oL:151:GLU:OE2	2.38	0.57
6:qL:147:GLN:NE2	6:qL:151:GLU:OE2	2.38	0.57
6:sL:6:THR:O	6:sL:10:SER:OG	2.23	0.57
7:tL:115:GLU:HA	7:tL:118:ILE:HB	1.87	0.57
15:bM:215:GLY:O	15:bM:219:ASN:ND2	2.35	0.57
15:bM:319:VAL:CG2	20:mP:79:ALA:CB	2.83	0.57
6:MM:6:THR:HG22	7:NM:1:MET:HE2	1.86	0.57
6:AN:140:VAL:HG13	6:AN:149:GLY:HA3	1.86	0.57
6:IN:39:GLU:OE2	6:IN:148:ALA:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IN:96:CYS:HA	6:IN:99:VAL:HG22	1.85	0.57
7:JN:25:GLN:HA	7:JN:28:LYS:HD2	1.86	0.57
14:MN:102:LYS:C	14:MN:103:ARG:NH1	2.59	0.57
7:BO:172:VAL:HG22	7:BO:172:VAL:O	2.04	0.57
20:EP:72:ALA:HA	20:EP:77:MET:HB3	1.85	0.57
20:KP:72:ALA:HA	20:KP:77:MET:HB3	1.85	0.57
24:XP:57:ILE:HG23	24:XP:102:TYR:CD2	2.39	0.57
20:iP:35:ARG:HG3	20:iP:38:ARG:NH2	2.20	0.57
20:vP:35:ARG:HG3	20:vP:38:ARG:NH2	2.20	0.57
27:3P:164:ARG:O	27:3P:167:MET:HG2	2.05	0.57
28:4P:189:ARG:HB3	28:4P:202:ALA:HB3	1.85	0.57
6:EQ:5:ILE:HD13	7:FQ:3:ASP:OD2	2.05	0.57
6:EQ:84:ARG:NH1	6:EQ:85:ASP:OD1	2.38	0.57
7:FQ:141:PHE:CD2	29:FQ:203:PEB:HMB2	2.40	0.57
6:IQ:84:ARG:NH1	6:IQ:85:ASP:OD1	2.38	0.57
6:MR:28:GLN:HA	6:MR:31:ILE:HD12	1.87	0.57
7:NR:59:MET:HE1	29:NR:201:PEB:H2A1	1.86	0.57
6:OR:3:SER:HB3	6:OR:6:THR:HG23	1.87	0.57
6:QR:54:GLU:OE2	29:QR:202:PEB:HAC1	2.05	0.57
4:K1:3:THR:CG2	4:K1:101:VAL:HB	2.33	0.57
29:Z1:203:PEB:NC	29:Z1:203:PEB:NB	2.50	0.57
6:O2:75:ASN:HB3	7:L5:76:ASN:HD21	1.68	0.57
7:T2:122:VAL:C	6:U7:69:PRO:HG2	2.29	0.57
6:U2:3:SER:HB3	6:U2:6:THR:HG23	1.87	0.57
6:U2:28:GLN:HA	6:U2:31:ILE:HD12	1.87	0.57
10:d4:308:ARG:HA	10:d4:311:GLN:NE2	2.13	0.57
10:d4:331:GLN:NE2	10:dD:334:LYS:HB2	2.19	0.57
6:D4:54:GLU:CD	6:D4:137:ARG:NH2	2.63	0.57
7:E4:130:ALA:O	7:E4:133:ILE:HG22	2.05	0.57
6:J4:48:HIS:CD2	7:K4:18:TYR:CE2	2.93	0.57
7:M4:130:ALA:O	7:M4:133:ILE:HG22	2.05	0.57
13:k6:5:PRO:HB2	13:k6:10:TYR:CE2	2.40	0.57
13:k6:261:MET:HB2	6:U7:83:TYR:OH	2.04	0.57
1:X7:298:ARG:NH1	1:X7:300:GLU:OE1	2.38	0.57
7:a7:35:ASN:O	7:a7:39:ASP:HB2	2.04	0.57
7:B8:104:VAL:CB	18:ME:265:LYS:C	2.78	0.57
7:I8:36:LYS:HB2	7:I8:161:LEU:HD11	1.86	0.57
7:C8:36:LYS:HG3	29:C8:202:PEB:O1B	2.05	0.57
1:X9:298:ARG:NH1	1:X9:300:GLU:OE1	2.38	0.57
6:S9:28:GLN:HE21	29:T9:202:PEB:HBD1	1.70	0.57
7:a9:19:VAL:HG23	7:a9:19:VAL:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BA:115:GLU:OE2	14:MA:115:TYR:CD2	2.57	0.57
6:IA:39:GLU:OE2	6:IA:148:ALA:CB	2.53	0.57
14:MA:199:GLU:HA	14:MA:202:PHE:HB2	1.85	0.57
7:gB:84:ARG:HG3	7:gB:84:ARG:HH11	1.70	0.57
7:GD:160:SER:O	7:GD:163:SER:OG	2.20	0.57
6:HD:90:MET:HA	6:HD:93:VAL:HG22	1.87	0.57
6:JD:81:LYS:HZ1	29:JD:201:PEB:C1C	2.17	0.57
2:AF:35:THR:O	6:ZF:118:ARG:NH2	2.37	0.57
4:IF:1:MET:CG	4:IF:109:GLU:OE2	2.51	0.57
5:LF:41:VAL:HG21	5:LF:98:ILE:HG22	1.87	0.57
7:PF:12:SER:HA	7:PF:15:LYS:HG3	1.85	0.57
7:cF:107:ASP:OD1	7:cF:107:ASP:N	2.26	0.57
7:gF:33:ASP:CG	7:gF:36:LYS:HD3	2.29	0.57
7:FG:54:ASP:OD1	29:FG:203:PEB:NC	2.38	0.57
5:NI:150:ILE:HG23	5:NI:150:ILE:O	2.04	0.57
6:YJ:147:GLN:NE2	6:YJ:151:GLU:OE2	2.38	0.57
6:eJ:75:ASN:OD1	6:eJ:78:LYS:HG2	2.04	0.57
7:fJ:115:GLU:HA	7:fJ:118:ILE:HB	1.87	0.57
6:uJ:75:ASN:OD1	6:uJ:78:LYS:HG2	2.04	0.57
16:xJ:92:LYS:HB3	16:xJ:92:LYS:HZ3	1.68	0.57
2:AK:39:SER:O	7:VK:91:ARG:NH2	2.38	0.57
6:CL:94:ASN:ND2	7:DL:18:TYR:HB3	2.19	0.57
7:LL:27:LEU:HD21	28:bP:228:ILE:HG13	1.87	0.57
6:OL:147:GLN:NE2	6:OL:151:GLU:OE2	2.38	0.57
6:SL:67:LYS:HA	6:SL:73:GLY:O	2.04	0.57
6:cL:66:LEU:CD2	6:cL:72:ALA:HB3	2.29	0.57
6:iL:75:ASN:OD1	6:iL:78:LYS:HG2	2.04	0.57
6:oL:95:TYR:OH	7:pL:17:ALA:O	2.19	0.57
6:uL:6:THR:O	6:uL:10:SER:OG	2.23	0.57
15:bM:90:TYR:C	7:NM:84:ARG:NH1	2.63	0.57
6:CN:43:LYS:HE2	6:CN:144:MET:HB3	1.86	0.57
6:GN:140:VAL:HG13	6:GN:149:GLY:HA3	1.86	0.57
6:AO:42:GLU:CD	7:BO:24:LEU:HD12	2.29	0.57
6:CO:6:THR:O	6:CO:10:SER:OG	2.23	0.57
6:EO:6:THR:O	6:EO:10:SER:OG	2.23	0.57
20:CP:72:ALA:HA	20:CP:77:MET:HB3	1.85	0.57
21:MP:6:THR:CG2	24:XP:129:VAL:HG13	2.35	0.57
22:VP:55:SER:O	22:VP:58:ILE:HG22	2.05	0.57
21:kP:148:GLU:HA	21:kP:148:GLU:OE1	2.05	0.57
20:mP:35:ARG:HG3	20:mP:38:ARG:NH2	2.20	0.57
21:nP:107:ARG:O	24:zP:109:GLN:NE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:pP:50:ILE:HA	20:pP:136:VAL:HG11	1.87	0.57
23:yP:140:LYS:HD3	23:yP:161:PHE:HB2	1.86	0.57
6:AQ:84:ARG:NH1	6:AQ:85:ASP:OD1	2.38	0.57
6:AQ:161:ASN:ND2	7:DQ:45:VAL:O	2.38	0.57
7:FQ:137:GLN:CD	29:FQ:203:PEB:C1B	2.77	0.57
7:FQ:154:ALA:O	29:FQ:202:PEB:NA	2.32	0.57
6:WR:142:ARG:NH2	29:WR:202:PEB:NB	2.53	0.57
5:F1:154:SER:C	5:F1:156:LEU:H	2.13	0.56
8:e2:84:LYS:CG	8:e2:85:PRO:HD2	2.35	0.56
8:e2:147:PHE:HD1	8:e2:159:LEU:HD13	1.62	0.56
6:Q2:28:GLN:HA	6:Q2:31:ILE:HD12	1.87	0.56
6:A3:42:GLU:CD	7:B3:24:LEU:CD1	2.78	0.56
6:K3:99:VAL:HG12	6:K3:101:GLY:H	1.69	0.56
10:d4:298:TYR:HE2	5:FF:17:GLU:CB	2.16	0.56
6:F4:29:GLY:C	6:F4:32:GLN:OE1	2.45	0.56
7:G4:58:GLY:H	29:G4:203:PEB:CMD	2.08	0.56
7:K4:130:ALA:O	7:K4:133:ILE:HG22	2.05	0.56
7:M4:50:CYS:C	29:M4:203:PEB:H3A1	2.29	0.56
13:k6:181:LEU:O	13:k6:184:VAL:HG12	2.04	0.56
7:I8:49:SER:O	7:I8:53:SER:OG	2.23	0.56
7:A8:49:SER:O	7:A8:53:SER:OG	2.23	0.56
2:A9:157:ASP:HA	2:A9:160:VAL:HG22	1.87	0.56
3:B9:219:ALA:HA	3:B9:222:LEU:HD23	1.86	0.56
4:G9:73:ALA:CB	4:G9:123:ASP:OD1	2.53	0.56
29:W9:202:PEB:HMA3	8:eR:249:TYR:CE1	2.39	0.56
6:IA:96:CYS:HA	6:IA:99:VAL:HG22	1.85	0.56
15:bB:90:TYR:C	7:NB:84:ARG:NH1	2.63	0.56
6:OB:20:SER:OG	6:OB:21:ASN:N	2.37	0.56
6:jB:137:ARG:NH1	29:jB:202:PEB:O1B	2.38	0.56
18:MC:64:GLU:O	18:MC:65:LYS:C	2.46	0.56
18:MC:109:LYS:O	18:MC:113:LYS:NZ	2.36	0.56
7:CD:33:ASP:OD1	7:CD:33:ASP:N	2.24	0.56
7:CD:135:LYS:HZ3	7:CD:169:PHE:HB2	1.69	0.56
6:DD:54:GLU:CD	6:DD:137:ARG:NH2	2.63	0.56
6:DD:142:ARG:HD2	29:DD:202:PEB:HHA1	1.87	0.56
7:LE:134:MET:HA	7:LE:137:GLN:HE21	1.69	0.56
18:ME:207:PHE:HB3	18:ME:211:SER:O	2.04	0.56
4:CF:7:GLU:OE1	4:MF:22:THR:CG2	2.53	0.56
6:AG:27:ILE:HD11	7:BG:38:LEU:HD11	1.86	0.56
6:IG:84:ARG:NH1	6:IG:85:ASP:OD1	2.38	0.56
7:VI:12:SER:HA	7:VI:15:LYS:HG3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IJ:138:LEU:HD22	6:IJ:152:PHE:HD2	1.70	0.56
6:UJ:147:GLN:NE2	6:UJ:151:GLU:OE2	2.38	0.56
6:eJ:6:THR:O	6:eJ:10:SER:OG	2.23	0.56
7:hJ:115:GLU:HA	7:hJ:118:ILE:HB	1.87	0.56
6:kJ:75:ASN:OD1	6:kJ:78:LYS:HG2	2.04	0.56
6:sJ:147:GLN:NE2	6:sJ:151:GLU:OE2	2.38	0.56
29:tJ:201:PEB:CAD	16:xJ:220:TYR:CD2	2.88	0.56
6:uJ:147:GLN:NE2	6:uJ:151:GLU:OE2	2.38	0.56
16:xJ:47:ARG:HE	16:xJ:48:MET:H	1.52	0.56
4:CK:114:GLY:C	4:CK:116:GLU:H	2.13	0.56
4:CK:157:ALA:O	4:CK:160:THR:HG23	2.05	0.56
6:GL:147:GLN:NE2	6:GL:151:GLU:OE2	2.37	0.56
6:ML:140:VAL:CG2	6:ML:146:ALA:HB2	2.34	0.56
6:eL:6:THR:O	6:eL:10:SER:OG	2.23	0.56
6:mL:5:ILE:CG2	7:nL:99:ALA:HA	2.34	0.56
6:mL:147:GLN:NE2	6:mL:151:GLU:OE2	2.37	0.56
6:oL:6:THR:O	6:oL:10:SER:OG	2.23	0.56
7:pL:115:GLU:HA	7:pL:118:ILE:HB	1.87	0.56
16:wL:45:SER:O	16:wL:45:SER:OG	2.22	0.56
15:bM:332:MET:N	15:bM:332:MET:SD	2.77	0.56
6:IM:20:SER:OG	6:IM:21:ASN:N	2.37	0.56
6:SM:20:SER:OG	6:SM:21:ASN:N	2.37	0.56
7:eM:60:ILE:C	7:eM:62:GLU:H	2.13	0.56
6:CN:140:VAL:HG13	6:CN:149:GLY:HA3	1.86	0.56
14:MN:295:PHE:HB3	14:MN:299:ARG:HH21	1.70	0.56
6:AO:6:THR:O	6:AO:10:SER:OG	2.23	0.56
7:DO:114:LYS:HD3	7:DO:176:ILE:HA	1.86	0.56
21:DP:15:GLN:HE21	23:WP:133:ILE:C	2.12	0.56
20:CP:35:ARG:HG3	20:CP:38:ARG:NH2	2.20	0.56
20:cP:50:ILE:HA	20:cP:136:VAL:HG11	1.87	0.56
21:dP:94:TYR:OH	20:eP:11:ALA:C	2.48	0.56
20:eP:35:ARG:HG3	20:eP:38:ARG:NH2	2.20	0.56
21:jP:148:GLU:HA	21:jP:148:GLU:OE1	2.05	0.56
7:FQ:90:LEU:O	7:FQ:94:SER:OG	2.22	0.56
6:QR:3:SER:HB3	6:QR:6:THR:HG23	1.87	0.56
6:UR:131:ILE:HG23	6:UR:156:LEU:HD22	1.87	0.56
7:XR:59:MET:HE1	29:XR:201:PEB:H2A1	1.87	0.56
4:C1:114:GLY:C	4:C1:116:GLU:H	2.13	0.56
4:C1:140:HIS:HE1	4:C1:142:LEU:HB2	1.66	0.56
5:J1:40:ILE:HD11	5:J1:157:VAL:HG12	1.86	0.56
5:L1:40:ILE:HG12	29:L1:1002:PEB:CBA	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M2:28:GLN:HA	6:M2:31:ILE:HD12	1.87	0.56
7:N2:42:ASN:HA	7:N2:45:VAL:HG22	1.86	0.56
7:X2:42:ASN:HA	7:X2:45:VAL:HG22	1.86	0.56
6:F4:43:LYS:CA	6:F4:43:LYS:HZ2	2.18	0.56
7:B5:108:ARG:CG	18:MC:266:GLY:C	2.77	0.56
7:I5:36:LYS:HB2	7:I5:161:LEU:HD11	1.86	0.56
7:L5:72:MEN:HE21	7:L5:122:VAL:HG22	1.87	0.56
13:k6:153:LYS:HZ1	29:V7:203:PEB:C1D	2.18	0.56
1:X7:284:VAL:HG21	3:B7:75:PHE:HE2	1.70	0.56
3:B7:217:ASP:OD2	27:3P:55:TYR:OH	2.18	0.56
5:L7:18:PHE:HE1	20:TP:68:PRO:HD2	0.85	0.56
7:K8:49:SER:O	7:K8:53:SER:OG	2.23	0.56
5:H9:158:ALA:HB2	13:kH:172:LYS:HA	1.87	0.56
29:V9:203:PEB:C1D	13:kH:153:LYS:HZ1	2.18	0.56
6:EA:96:CYS:HA	6:EA:99:VAL:HG22	1.85	0.56
6:EA:140:VAL:HG13	6:EA:149:GLY:HA3	1.86	0.56
7:FA:25:GLN:HA	7:FA:28:LYS:HD2	1.86	0.56
15:bB:198:ARG:HE	15:bB:201:TYR:HE1	1.51	0.56
10:dD:144:LEU:C	10:dD:145:LEU:HD12	2.30	0.56
10:dD:285:VAL:CB	29:TI:202:PEB:CGB	2.82	0.56
10:dD:291:ILE:HG22	4:EI:49:GLN:HG2	1.86	0.56
3:BF:218:PRO:O	20:TP:79:ALA:HB1	2.05	0.56
5:Nf:148:THR:HG21	29:Nf:1002:PEB:HMA3	1.87	0.56
7:BG:47:ASN:HB2	29:BG:203:PEB:HMA1	1.86	0.56
7:HG:94:SER:HA	7:HG:97:LEU:HB2	1.87	0.56
3:BK:226:GLN:HA	3:BK:226:GLN:HE21	1.70	0.56
5:JK:33:GLU:CD	5:JK:156:LEU:HG	2.31	0.56
4:MK:115:LEU:HG	4:MK:115:LEU:O	2.03	0.56
5:NK:19:LEU:CD1	5:NK:23:GLN:CD	2.79	0.56
7:YK:157:ASP:OD1	7:YK:158:CYS:N	2.38	0.56
6:jK:33:ARG:HG3	6:IK:25:GLU:HG2	1.87	0.56
6:EL:75:ASN:OD1	6:EL:78:LYS:HG2	2.04	0.56
7:LL:115:GLU:HA	7:LL:118:ILE:HB	1.87	0.56
6:UL:147:GLN:NE2	6:UL:151:GLU:OE2	2.38	0.56
6:WL:73:GLY:HA2	6:WL:78:LYS:CG	2.34	0.56
16:wL:101:ALA:C	16:wL:105:ARG:HG3	2.28	0.56
6:EM:17:ARG:O	7:FM:95:TYR:OH	2.20	0.56
6:fM:20:SER:OG	6:fM:21:ASN:N	2.37	0.56
6:IN:37:ARG:NE	6:IN:97:LEU:O	2.36	0.56
6:KN:11:ALA:HA	14:MN:255:TYR:OH	2.05	0.56
6:KN:30:ASN:O	6:KN:34:SER:OG	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:MP:148:GLU:OE1	21:MP:148:GLU:HA	2.05	0.56
24:XP:47:THR:O	24:XP:58:LYS:NZ	2.28	0.56
20:gP:35:ARG:HG3	20:gP:38:ARG:NH2	2.20	0.56
20:mP:30:VAL:HG12	21:qP:31:PHE:HD1	1.70	0.56
20:rP:18:LEU:HD22	21:wP:97:LEU:CD1	2.33	0.56
25:1P:21:SER:HB2	25:1P:46:PHE:HE2	1.69	0.56
7:FQ:62:GLU:OE1	29:FQ:203:PEB:CBD	2.53	0.56
8:eR:225:ASN:ND2	7:TR:116:THR:OG1	2.38	0.56
6:MR:3:SER:HB3	6:MR:6:THR:HG23	1.87	0.56
5:L1:33:GLU:HB3	5:L1:36:GLN:CB	2.34	0.56
7:T1:150:LYS:C	11:D8:260:THR:HG23	2.30	0.56
7:Y1:157:ASP:OD1	7:Y1:158:CYS:N	2.38	0.56
7:g1:171:ARG:HH22	14:MA:96:LYS:N	2.03	0.56
29:j1:202:PEB:NB	29:j1:202:PEB:NC	2.50	0.56
6:S2:91:ARG:HH12	7:T2:16:ALA:HA	1.63	0.56
6:W2:81:LYS:HD3	29:W2:201:PEB:HAB2	1.86	0.56
6:K3:54:GLU:OE2	29:K3:202:PEB:HMC1	2.02	0.56
10:d4:270:ARG:HD3	7:M4:78:ARG:HH21	1.68	0.56
7:C4:51:MET:CE	29:C4:203:PEB:H3A1	2.35	0.56
6:D4:43:LYS:NZ	29:D4:202:PEB:OD	2.39	0.56
6:D4:142:ARG:HH22	29:D4:202:PEB:CGC	2.16	0.56
6:F4:49:GLU:HA	6:F4:52:VAL:HG22	1.86	0.56
6:F4:142:ARG:HD2	29:F4:202:PEB:HHA1	1.87	0.56
6:H4:114:ARG:CD	6:J4:118:ARG:NH1	2.45	0.56
7:I4:39:ASP:OD1	29:I4:202:PEB:CMD	2.54	0.56
7:I4:130:ALA:O	7:I4:133:ILE:HG22	2.05	0.56
6:J5:157:ASP:O	6:J5:161:ASN:ND2	2.39	0.56
7:A5:69:PRO:HG3	7:A5:74:TYR:CE1	2.41	0.56
7:C5:49:SER:O	7:C5:53:SER:OG	2.23	0.56
12:E5:162:ASN:CA	29:kI:203:PEB:CGB	2.70	0.56
1:X7:295:LYS:NZ	1:X7:363:LEU:O	2.38	0.56
7:H8:72:MEN:HE21	7:H8:122:VAL:HG22	1.87	0.56
6:J8:157:ASP:O	6:J8:161:ASN:ND2	2.39	0.56
2:A9:250:GLU:HA	2:A9:253:SER:HB3	1.86	0.56
3:B9:222:LEU:HD21	3:BI:206:PHE:HZ	1.69	0.56
5:L9:159:GLU:HA	27:3P:240:TYR:CE2	2.40	0.56
7:a9:62:GLU:CD	7:a9:129:ARG:CG	2.64	0.56
6:l9:90:MET:C	6:l9:93:VAL:HG12	2.30	0.56
6:AA:140:VAL:HG13	6:AA:149:GLY:HA3	1.86	0.56
7:HA:111:ASN:ND2	14:MA:317:SER:OG	2.37	0.56
6:IA:17:ARG:NH2	6:IA:20:SER:OG	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KA:108:TRP:HZ3	7:LA:13:ASP:OD2	1.87	0.56
15:bB:66:PRO:HG2	15:bB:69:MET:HG2	1.88	0.56
17:BB:188:GLN:OE1	17:BB:291:ARG:NH2	2.36	0.56
6:CB:20:SER:OG	6:CB:21:ASN:N	2.37	0.56
6:GB:20:SER:OG	6:GB:21:ASN:N	2.37	0.56
6:MB:6:THR:HG22	7:NB:1:MET:HE2	1.86	0.56
6:GC:16:GLY:HA3	18:MC:160:GLY:HA2	1.87	0.56
18:MC:214:ASP:C	18:MC:216:ARG:H	2.12	0.56
7:CD:130:ALA:O	7:CD:133:ILE:HG22	2.05	0.56
7:ED:135:LYS:HZ3	7:ED:169:PHE:HB2	1.70	0.56
6:FD:81:LYS:HD2	6:FD:84:ARG:HD2	1.48	0.56
6:HD:34:SER:O	6:HD:38:LEU:HG	2.06	0.56
6:JD:48:HIS:CD2	7:KD:18:TYR:CE2	2.93	0.56
6:JD:142:ARG:HD2	29:JD:202:PEB:HHA1	1.87	0.56
7:KD:39:ASP:OD1	29:KD:202:PEB:CMD	2.54	0.56
18:ME:242:LYS:HB2	29:SI:202:PEB:HBB2	1.85	0.56
18:ME:304:TRP:HD1	6:gL:84:ARG:HA	0.74	0.56
3:BF:204:ARG:CZ	21:uP:57:ALA:HB1	2.35	0.56
4:GF:145:GLN:HE22	29:JF:1002:PEB:HHC2	1.70	0.56
6:AG:161:ASN:ND2	7:DG:45:VAL:O	2.38	0.56
6:CG:33:ARG:CD	6:CG:37:ARG:HB3	2.35	0.56
7:HG:137:GLN:OE1	29:HG:203:PEB:NB	2.38	0.56
5:FI:41:VAL:HG21	5:FI:98:ILE:HG22	1.87	0.56
5:HI:41:VAL:HG21	5:HI:98:ILE:HG22	1.87	0.56
7:cI:33:ASP:HB2	7:cI:36:LYS:HD3	1.86	0.56
7:gI:1:MET:C	7:gI:2:LEU:HD12	2.28	0.56
7:HJ:133:ILE:C	7:HJ:135:LYS:H	2.14	0.56
6:MJ:147:GLN:NE2	6:MJ:151:GLU:OE2	2.38	0.56
6:SJ:67:LYS:HA	6:SJ:73:GLY:O	2.04	0.56
6:WJ:73:GLY:HA2	6:WJ:78:LYS:CG	2.34	0.56
6:aJ:44:LEU:HD22	6:aJ:152:PHE:HE1	1.69	0.56
6:mJ:2:LYS:HD2	16:xJ:193:GLY:HA3	1.87	0.56
6:mJ:5:ILE:CG2	7:nJ:99:ALA:HA	2.34	0.56
6:oJ:147:GLN:NE2	6:oJ:151:GLU:OE2	2.38	0.56
6:qJ:6:THR:O	6:qJ:10:SER:OG	2.23	0.56
16:wJ:101:ALA:C	16:wJ:105:ARG:HG3	2.28	0.56
19:zJ:343:GLN:HE22	20:iP:61:ARG:CB	2.18	0.56
19:zJ:343:GLN:HE22	20:iP:61:ARG:CA	2.12	0.56
3:BK:44:ASP:OD1	3:BK:74:ARG:NH2	2.34	0.56
3:BK:205:ARG:HH21	20:IP:52:LYS:HE3	1.61	0.56
4:IK:49:GLN:CD	15:bM:337:PRO:HA	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LK:33:GLU:HB3	5:LK:36:GLN:CB	2.34	0.56
5:NK:5:PHE:CD1	5:NK:27:LEU:CD2	2.88	0.56
7:PK:46:SER:CB	6:QK:157:ASP:OD2	2.53	0.56
6:EL:147:GLN:NE2	6:EL:151:GLU:OE2	2.37	0.56
7:HL:125:ASN:OD1	7:HL:125:ASN:N	2.30	0.56
6:IL:137:ARG:NH2	29:IL:202:PEB:HNC	2.00	0.56
6:aL:147:GLN:NE2	6:aL:151:GLU:OE2	2.37	0.56
7:nL:115:GLU:HA	7:nL:118:ILE:HB	1.87	0.56
7:vL:115:GLU:HA	7:vL:118:ILE:HB	1.87	0.56
16:AM:91:VAL:HG12	16:AM:93:GLY:H	1.70	0.56
7:VM:81:ALA:O	7:VM:85:ASP:CG	2.48	0.56
7:gM:84:ARG:HG3	7:gM:84:ARG:HH11	1.70	0.56
6:jM:20:SER:OG	6:jM:21:ASN:N	2.37	0.56
6:EN:17:ARG:NH2	6:EN:20:SER:OG	2.38	0.56
6:KN:17:ARG:NH2	6:KN:20:SER:OG	2.38	0.56
6:GO:6:THR:O	6:GO:10:SER:OG	2.23	0.56
6:IO:6:THR:O	6:IO:10:SER:OG	2.23	0.56
21:DP:148:GLU:HA	21:DP:148:GLU:OE1	2.05	0.56
20:GP:50:ILE:HA	20:GP:136:VAL:HG11	1.87	0.56
20:JP:35:ARG:HG3	20:JP:38:ARG:NH2	2.20	0.56
20:RP:50:ILE:HA	20:RP:136:VAL:HG11	1.87	0.56
20:eP:50:ILE:HA	20:eP:136:VAL:HG11	1.87	0.56
21:nP:5:ILE:HD13	22:xP:29:TYR:OH	2.05	0.56
20:pP:35:ARG:HG3	20:pP:38:ARG:NH2	2.20	0.56
20:pP:72:ALA:HA	20:pP:77:MET:HB3	1.85	0.56
21:wP:87:TYR:CZ	25:1P:845:LEU:HD13	2.39	0.56
25:1P:354:LEU:O	25:1P:358:GLN:HG3	2.06	0.56
7:BQ:141:PHE:HZ	29:BQ:203:PEB:H3A1	1.71	0.56
6:CQ:2:LYS:HD2	14:MQ:138:SER:C	2.30	0.56
7:FQ:141:PHE:HZ	29:FQ:203:PEB:C2A	2.15	0.56
8:eR:63:VAL:HG21	7:TR:77:ARG:CD	2.35	0.56
8:eR:75:MET:HE2	29:NR:201:PEB:C4D	2.35	0.56
8:eR:89:PRO:HG3	7:VR:77:ARG:NH1	2.20	0.56
8:eR:262:MET:HE2	7:TR:119:ALA:HB2	1.86	0.56
7:NR:42:ASN:HA	7:NR:45:VAL:HG22	1.86	0.56
6:OR:84:ARG:NH2	29:OR:201:PEB:O1C	2.38	0.56
6:OR:142:ARG:NH1	29:OR:202:PEB:C4B	2.65	0.56
6:QR:131:ILE:HG23	6:QR:156:LEU:HD22	1.87	0.56
7:TR:110:LEU:HB3	7:TR:175:ALA:CB	2.36	0.56
7:VR:38:LEU:HD12	29:VR:202:PEB:ND	2.20	0.56
6:WR:28:GLN:HA	6:WR:31:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E1:3:THR:HB	4:E1:4:PRO:CD	2.36	0.56
5:N1:19:LEU:CD1	5:N1:23:GLN:CD	2.79	0.56
6:Z1:52:VAL:HG13	6:Z1:86:VAL:CG1	2.28	0.56
6:W2:84:ARG:NH2	29:W2:201:PEB:O1C	2.38	0.56
7:C4:77:ARG:HH21	7:C4:78:ARG:HG3	1.71	0.56
7:G4:75:THR:HG21	6:J4:108:TRP:HB3	1.87	0.56
6:H4:142:ARG:HD2	29:H4:202:PEB:HHA1	1.87	0.56
6:J4:90:MET:HA	6:J4:93:VAL:HG22	1.87	0.56
7:K4:39:ASP:OD1	29:K4:202:PEB:CMD	2.54	0.56
6:L4:43:LYS:NZ	29:L4:202:PEB:OD	2.39	0.56
7:M4:33:ASP:OD1	7:M4:33:ASP:N	2.24	0.56
7:I5:49:SER:O	7:I5:53:SER:OG	2.23	0.56
29:L5:201:PEB:HBC2	13:k6:195:ARG:HH22	1.70	0.56
3:B7:222:LEU:HD21	3:BF:206:PHE:HZ	1.69	0.56
6:S7:28:GLN:HE21	29:T7:202:PEB:HBD1	1.70	0.56
7:G8:72:MEN:HE21	7:G8:122:VAL:HG22	1.87	0.56
12:E8:185:ALA:CB	6:bF:67:LYS:HZ3	2.18	0.56
7:FA:21:GLY:HA2	7:FA:24:LEU:HB2	1.88	0.56
6:UB:135:ARG:HD2	6:UB:157:ASP:OD1	1.99	0.56
7:VB:81:ALA:O	7:VB:85:ASP:CG	2.48	0.56
10:dD:296:TYR:O	5:FI:17:GLU:HA	2.05	0.56
6:DD:43:LYS:NZ	29:DD:202:PEB:OD	2.39	0.56
6:JD:9:VAL:HG11	7:KD:95:TYR:HD1	1.63	0.56
7:MD:136:ALA:CB	29:MD:203:PEB:HBC2	2.35	0.56
7:JE:73:CYS:CB	7:JE:79:MET:SD	2.88	0.56
1:XF:105:LYS:HZ3	7:aF:92:TYR:HE2	1.46	0.56
5:JF:41:VAL:HG21	5:JF:98:ILE:HG22	1.87	0.56
7:DG:94:SER:HA	7:DG:97:LEU:HB2	1.87	0.56
6:EG:5:ILE:HD13	7:FG:3:ASP:OD2	2.05	0.56
7:LG:116:THR:CG2	14:MG:233:ALA:HB1	2.35	0.56
7:LJ:113:LEU:HA	19:zJ:219:ASN:OD1	2.05	0.56
6:WJ:147:GLN:NE2	6:WJ:151:GLU:OE2	2.38	0.56
6:qJ:147:GLN:NE2	6:qJ:151:GLU:OE2	2.38	0.56
16:xJ:102:ALA:HA	16:xJ:105:ARG:NE	2.14	0.56
3:BK:205:ARG:NH2	20:IP:52:LYS:CD	2.68	0.56
6:cL:66:LEU:HD22	6:cL:72:ALA:HB2	1.86	0.56
17:yL:215:THR:HG23	17:yL:217:SER:H	1.69	0.56
6:jM:54:GLU:OE1	29:jM:202:PEB:HBC2	2.04	0.56
7:FN:69:PRO:HG3	7:JN:16:ALA:HB2	1.85	0.56
6:IN:17:ARG:NH2	6:IN:20:SER:OG	2.38	0.56
6:KN:31:ILE:HG23	7:LN:31:ILE:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AO:42:GLU:CD	7:BO:24:LEU:CD1	2.78	0.56
20:GP:35:ARG:HG3	20:GP:38:ARG:NH2	2.20	0.56
21:HP:18:TYR:CE1	25:YP:157:ARG:HD3	2.40	0.56
20:KP:25:ARG:NH2	25:YP:45:SER:HB2	2.20	0.56
21:LP:148:GLU:OE1	21:LP:148:GLU:HA	2.05	0.56
21:OP:148:GLU:OE1	21:OP:148:GLU:HA	2.05	0.56
25:YP:282:TYR:OH	25:YP:302:GLU:OE2	2.18	0.56
25:YP:354:LEU:O	25:YP:358:GLN:HG3	2.05	0.56
27:aP:113:ASP:OD2	27:aP:115:ARG:NH1	2.39	0.56
20:cP:35:ARG:HG3	20:cP:38:ARG:NH2	2.20	0.56
21:dP:6:THR:HG23	23:yP:173:LEU:HD22	1.88	0.56
21:nP:148:GLU:OE1	21:nP:148:GLU:HA	2.05	0.56
27:3P:113:ASP:OD2	27:3P:115:ARG:NH1	2.39	0.56
6:GQ:114:ARG:CD	6:IQ:114:ARG:HH11	2.17	0.56
14:MQ:240:SER:HA	14:MQ:243:MET:HG3	1.87	0.56
5:J1:27:LEU:O	5:J1:31:VAL:CG1	2.51	0.56
6:U1:33:ARG:HE	29:U1:201:PEB:CBD	2.19	0.56
6:j1:33:ARG:HG3	6:l1:25:GLU:HG2	1.87	0.56
6:M2:37:ARG:NE	6:M2:151:GLU:OE1	2.39	0.56
6:M2:131:ILE:HG23	6:M2:156:LEU:HD22	1.87	0.56
6:O2:137:ARG:NH2	29:O2:202:PEB:CGB	2.59	0.56
7:V2:84:ARG:O	7:V2:88:ILE:HG13	2.05	0.56
9:O3:262:THR:HG23	9:O3:263:LEU:HD12	1.87	0.56
7:G4:147:THR:OG1	29:G4:203:PEB:O1B	2.22	0.56
29:I5:203:PEB:HMD3	7:JB:14:ALA:HB1	1.88	0.56
11:D5:274:PRO:CG	4:GK:46:GLY:O	2.48	0.56
13:k6:118:ARG:CG	6:S7:137:ARG:HH12	2.19	0.56
6:U7:145:SER:OG	6:U7:146:ALA:N	2.39	0.56
7:a7:167:SER:CB	12:E8:37:VAL:CG2	2.83	0.56
7:B8:104:VAL:HB	18:ME:265:LYS:CB	2.34	0.56
12:E8:162:ASN:O	29:kF:203:PEB:C1C	2.54	0.56
7:a9:52:VAL:CG2	7:a9:87:GLU:CB	2.75	0.56
6:CB:6:THR:CG2	7:DB:1:MET:HE2	2.36	0.56
6:fB:20:SER:OG	6:fB:21:ASN:N	2.37	0.56
6:EC:52:VAL:HG12	6:EC:86:VAL:HG23	1.88	0.56
7:FC:75:THR:HB	7:FC:78:ARG:HG3	1.88	0.56
7:LC:120:LEU:HD12	18:MC:213:THR:HG22	1.73	0.56
18:MC:232:MET:HE2	6:SF:142:ARG:NE	2.20	0.56
10:dD:218:ASP:N	10:dD:218:ASP:OD1	2.39	0.56
6:FD:90:MET:HA	6:FD:93:VAL:HG22	1.87	0.56
7:GD:75:THR:HG22	29:JD:201:PEB:HBD2	0.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:JD:33:ARG:HD2	6:LD:25:GLU:OE1	2.06	0.56
6:JD:133:TYR:CD2	6:JD:137:ARG:HG3	2.41	0.56
6:LD:43:LYS:NZ	29:LD:202:PEB:OD	2.39	0.56
7:MD:77:ARG:HH21	7:MD:78:ARG:HG3	1.70	0.56
6:IE:52:VAL:HG12	6:IE:86:VAL:HG23	1.88	0.56
3:BI:13:GLN:OE1	3:BI:15:GLN:NE2	2.35	0.56
7:eI:33:ASP:HB2	7:eI:36:LYS:HD3	1.86	0.56
6:gJ:6:THR:O	6:gJ:10:SER:OG	2.23	0.56
16:xJ:101:ALA:C	16:xJ:105:ARG:HG3	2.29	0.56
16:xJ:146:PRO:CD	16:xJ:147:LYS:N	2.68	0.56
1:XK:52:VAL:HG11	5:DK:125:SER:HB3	1.87	0.56
4:EK:5:ILE:HD12	5:FK:3:ASP:OD2	2.05	0.56
4:EK:145:GLN:NE2	29:LK:1002:PEB:CMC	2.67	0.56
5:LK:65:GLN:HA	15:bM:345:GLY:O	2.06	0.56
6:AL:137:ARG:HG3	6:AL:137:ARG:O	2.04	0.56
6:EL:106:ASP:OD2	6:GL:17:ARG:NH1	2.39	0.56
7:FL:143:THR:OG1	25:1P:514:ILE:CG2	2.52	0.56
6:IL:138:LEU:HD22	6:IL:152:PHE:HD2	1.70	0.56
7:hL:115:GLU:HA	7:hL:118:ILE:HB	1.87	0.56
6:kL:33:ARG:NH2	6:mL:24:LEU:O	2.38	0.56
7:IL:115:GLU:HA	7:IL:118:ILE:HB	1.87	0.56
16:xL:146:PRO:CD	16:xL:147:LYS:N	2.68	0.56
29:BO:202:PEB:HMC3	29:BO:202:PEB:HND	1.70	0.56
7:DO:38:LEU:O	29:DO:202:PEB:HMD3	2.02	0.56
6:KO:6:THR:O	6:KO:10:SER:OG	2.23	0.56
25:YP:657:LYS:O	25:YP:661:ILE:HG12	2.06	0.56
7:BQ:137:GLN:NE2	29:BQ:203:PEB:HHA1	2.20	0.56
7:BQ:140:ALA:HB2	29:BQ:203:PEB:HAB2	1.81	0.56
7:DQ:154:ALA:O	29:DQ:202:PEB:NA	2.32	0.56
8:eR:63:VAL:HB	6:OR:107:GLU:HB2	1.86	0.56
6:MR:131:ILE:HG23	6:MR:156:LEU:HD22	1.87	0.56
6:MR:139:CYS:CB	29:MR:202:PEB:HHA1	2.35	0.56
7:VR:61:CYS:HB2	29:VR:203:PEB:CAD	2.36	0.56
7:VR:84:ARG:O	7:VR:88:ILE:HG13	2.05	0.56
2:A1:39:SER:O	7:V1:91:ARG:NH2	2.38	0.56
3:B1:204:ARG:HG2	3:B1:204:ARG:NH1	2.21	0.56
5:F1:14:ALA:C	7:P1:125:ASN:HD22	2.13	0.56
6:O2:75:ASN:HA	7:L5:76:ASN:ND2	2.20	0.56
6:O2:137:ARG:NH2	29:O2:202:PEB:CHB	2.65	0.56
7:R2:79:MET:O	7:R2:83:LEU:HG	2.06	0.56
6:S2:3:SER:HB3	6:S2:6:THR:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:144:LEU:C	10:d4:145:LEU:HD12	2.30	0.56
6:F4:81:LYS:HD2	6:F4:84:ARG:CG	2.33	0.56
6:J4:133:TYR:CD2	6:J4:137:ARG:HG3	2.41	0.56
7:K4:147:THR:OG1	7:K4:148:GLU:OE1	2.24	0.56
7:B5:72:MEN:HE21	7:B5:122:VAL:HG22	1.87	0.56
7:K5:1:MET:HE1	7:K5:95:TYR:CZ	2.40	0.56
13:k6:134:ILE:O	13:k6:134:ILE:HG13	2.05	0.56
6:j7:145:SER:OG	6:j7:146:ALA:N	2.39	0.56
4:E9:122:PHE:CD2	31:E9:1001:CYC:HAA2	2.39	0.56
6:KA:31:ILE:HG23	7:LA:31:ILE:HG23	1.87	0.56
7:kB:85:ASP:CG	29:kB:201:PEB:CHC	2.56	0.56
7:LC:134:MET:HA	7:LC:137:GLN:HE21	1.69	0.56
18:MC:242:LYS:CG	29:SF:202:PEB:HBB1	2.17	0.56
10:dD:308:ARG:HA	10:dD:311:GLN:NE2	2.13	0.56
6:LD:115:GLU:O	6:LD:119:THR:HG23	2.06	0.56
7:DE:123:PRO:CB	6:QI:69:PRO:CG	2.61	0.56
6:EE:52:VAL:HG12	6:EE:86:VAL:HG23	1.88	0.56
5:FF:41:VAL:HG21	5:FF:98:ILE:HG22	1.87	0.56
5:JF:26:ALA:CB	27:3P:91:VAL:CG1	2.68	0.56
6:UF:48:HIS:HA	6:UF:51:VAL:CG2	2.35	0.56
7:VF:12:SER:HA	7:VF:15:LYS:HG3	1.85	0.56
13:kH:5:PRO:HB2	13:kH:10:TYR:CE2	2.40	0.56
3:BI:169:GLN:HG2	5:LI:77:ARG:HH22	1.69	0.56
7:DJ:115:GLU:HA	7:DJ:118:ILE:HB	1.87	0.56
7:FJ:116:THR:HG22	7:FJ:120:LEU:HD12	1.88	0.56
6:sJ:14:ALA:HB1	30:xJ:305:PUB:HHA1	1.88	0.56
30:yJ:303:PUB:HBA3	30:yJ:303:PUB:HHA2	1.88	0.56
19:zJ:331:PRO:HB2	20:pP:68:PRO:CD	2.25	0.56
3:BK:204:ARG:HG2	3:BK:204:ARG:NH1	2.21	0.56
5:JK:40:ILE:HD11	5:JK:157:VAL:HG12	1.86	0.56
7:TK:19:VAL:O	7:TK:19:VAL:HG23	2.04	0.56
6:GL:6:THR:O	6:GL:10:SER:OG	2.23	0.56
7:PL:20:GLY:C	7:PL:22:SER:H	2.14	0.56
16:wL:146:PRO:CD	16:wL:147:LYS:H	2.10	0.56
15:bM:198:ARG:HE	15:bM:201:TYR:HE1	1.51	0.56
6:AN:17:ARG:NH2	6:AN:20:SER:OG	2.38	0.56
7:DN:25:GLN:HA	7:DN:28:LYS:HD2	1.86	0.56
20:CP:15:ALA:CB	25:YP:492:GLY:HA2	2.35	0.56
20:KP:106:GLU:OE1	28:bP:50:TYR:N	2.38	0.56
20:RP:35:ARG:HG3	20:RP:38:ARG:NH2	2.20	0.56
27:aP:164:ARG:O	27:aP:167:MET:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:rP:35:ARG:HG3	20:rP:38:ARG:NH2	2.20	0.56
25:1P:513:GLY:HA3	25:1P:520:ARG:HG2	1.88	0.56
7:BQ:141:PHE:HZ	29:BQ:203:PEB:C3A	2.19	0.56
6:CQ:33:ARG:CD	6:CQ:37:ARG:HB3	2.35	0.56
6:GQ:95:TYR:HE1	7:HQ:18:TYR:HA	1.71	0.56
6:KQ:84:ARG:NH1	6:KQ:85:ASP:OD1	2.38	0.56
6:SR:3:SER:HB3	6:SR:6:THR:HG23	1.87	0.56
4:I1:142:LEU:HD13	4:I1:146:VAL:HG12	1.88	0.56
6:O2:28:GLN:HA	6:O2:31:ILE:HD12	1.87	0.56
6:S2:142:ARG:HH21	29:S2:202:PEB:HHA1	1.70	0.56
10:d4:218:ASP:OD1	10:d4:218:ASP:N	2.39	0.56
7:K4:41:VAL:HG22	7:K4:97:LEU:CD2	2.36	0.56
6:L4:90:MET:HA	6:L4:93:VAL:HG22	1.87	0.56
7:A5:49:SER:O	7:A5:53:SER:OG	2.23	0.56
12:E5:38:LEU:HD12	5:F9:165:ASP:CG	2.31	0.56
3:B7:228:MET:CB	20:rP:56:GLN:HG2	2.35	0.56
6:l7:145:SER:OG	6:l7:146:ALA:N	2.39	0.56
7:F8:72:MEN:HE21	7:F8:122:VAL:HG22	1.87	0.56
7:A8:69:PRO:HG3	7:A8:74:TYR:CE1	2.41	0.56
5:D9:52:VAL:HG21	5:D9:87:GLU:HG3	1.88	0.56
4:K9:57:GLN:NE2	5:JI:145:THR:CB	2.67	0.56
6:S9:43:LYS:NZ	6:S9:143:ASP:O	2.35	0.56
6:KA:131:ILE:CD1	6:KA:159:LEU:HD21	2.35	0.56
15:bB:340:GLU:O	15:bB:349:LYS:CG	2.52	0.56
15:bB:384:LEU:CD2	7:FB:125:ASN:HD21	2.18	0.56
7:RB:61:CYS:CB	29:RB:203:PEB:HBD2	2.19	0.56
6:AC:52:VAL:HG12	6:AC:86:VAL:HG23	1.88	0.56
7:HC:134:MET:HA	7:HC:137:GLN:HE21	1.69	0.56
18:MC:280:VAL:HG13	4:CF:49:GLN:HB2	1.88	0.56
10:dD:288:ARG:HH22	7:TI:62:GLU:HA	1.69	0.56
6:BD:49:GLU:HA	6:BD:52:VAL:HG22	1.86	0.56
6:BD:118:ARG:NH2	6:LD:118:ARG:NH2	2.53	0.56
6:HD:43:LYS:NZ	29:HD:202:PEB:OD	2.39	0.56
6:HD:142:ARG:HD2	29:HD:202:PEB:HHA1	1.87	0.56
7:KD:9:VAL:O	7:KD:12:SER:OG	2.19	0.56
7:BE:73:CYS:CB	7:BE:79:MET:SD	2.88	0.56
7:BE:75:THR:HB	7:BE:78:ARG:HG3	1.88	0.56
6:GE:52:VAL:HG12	6:GE:86:VAL:HG23	1.88	0.56
7:HE:134:MET:HA	7:HE:137:GLN:HE21	1.69	0.56
18:ME:312:LEU:CD1	7:vL:69:PRO:HD2	2.36	0.56
4:CF:116:GLU:OE2	4:KF:120:ARG:HD2	1.92	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:47:SER:OG	4:EF:50:ARG:NH2	2.39	0.56
29:FF:1002:PEB:CMC	4:KF:145:GLN:NE2	2.68	0.56
6:AG:136:ASP:OD1	6:AG:136:ASP:N	2.30	0.56
6:GG:95:TYR:HE1	7:HG:18:TYR:HA	1.71	0.56
4:CI:7:GLU:OE1	4:MI:22:THR:CG2	2.53	0.56
4:EI:7:GLU:HG3	4:KI:22:THR:HG21	1.88	0.56
6:UI:95:TYR:OH	7:VI:17:ALA:O	2.18	0.56
6:KJ:6:THR:O	6:KJ:10:SER:OG	2.23	0.56
7:VJ:114:LYS:HE2	7:VJ:177:SER:OXT	2.04	0.56
6:iJ:68:ASN:O	6:iJ:70:GLY:N	2.39	0.56
7:nJ:79:MET:HG2	29:uJ:202:PEB:HAC1	1.88	0.56
7:nJ:115:GLU:HA	7:nJ:118:ILE:HB	1.87	0.56
29:hK:202:PEB:NB	29:hK:202:PEB:NC	2.50	0.56
6:IL:54:GLU:HG2	6:IL:133:TYR:OH	2.05	0.56
6:SM:106:ASP:OD2	6:UM:17:ARG:NH1	2.37	0.56
6:AN:13:ASP:HA	7:BN:91:ARG:HH12	1.69	0.56
24:XP:107:ARG:HG2	24:XP:111:MET:HE2	1.88	0.56
21:jP:18:TYR:CE2	25:1P:157:ARG:HA	2.40	0.56
22:xP:145:GLU:O	22:xP:149:VAL:HG23	2.06	0.56
8:eR:154:TYR:OH	29:XR:201:PEB:CAC	2.53	0.56
6:MR:37:ARG:NE	6:MR:151:GLU:OE1	2.39	0.56
7:RR:46:SER:HB2	6:SR:157:ASP:OD2	2.05	0.56
7:RR:79:MET:O	7:RR:83:LEU:HG	2.06	0.56
6:SR:118:ARG:HH11	6:UR:114:ARG:CZ	2.19	0.56
6:SR:140:VAL:HG13	6:SR:145:SER:O	2.05	0.56
6:WR:142:ARG:CZ	29:WR:202:PEB:C1B	2.84	0.56
4:I1:137:LYS:O	4:I1:140:HIS:CD2	2.59	0.56
5:J1:77:ARG:HB2	4:M1:113:ALA:CB	2.36	0.56
6:U2:131:ILE:HG23	6:U2:156:LEU:HD22	1.87	0.56
7:V2:59:MET:HE1	29:V2:201:PEB:H2A1	1.86	0.56
29:B3:202:PEB:HMC3	29:B3:202:PEB:HND	1.70	0.56
6:G3:99:VAL:HG12	6:G3:101:GLY:H	1.69	0.56
10:d4:237:LEU:HD11	7:E4:2:LEU:CD2	2.36	0.56
6:B4:115:GLU:O	6:B4:119:THR:HG23	2.06	0.56
7:C4:76:ASN:OD1	29:F4:201:PEB:CMC	2.54	0.56
6:D4:33:ARG:HH22	6:D4:147:GLN:NE2	2.03	0.56
7:H5:72:MEN:HE21	7:H5:122:VAL:HG22	1.87	0.56
13:k6:192:VAL:CB	4:I7:134:GLN:NE2	2.68	0.56
1:X7:319:LYS:NZ	4:G7:116:GLU:OE2	2.39	0.56
6:b7:43:LYS:NZ	6:b7:143:ASP:O	2.35	0.56
7:I8:18:TYR:CD1	21:nP:128:GLN:OE1	2.55	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A8:40:ALA:CB	7:A8:161:LEU:HD13	2.34	0.56
5:L9:154:SER:HB2	27:3P:264:LYS:HE2	1.87	0.56
6:S9:137:ARG:HH12	13:kH:118:ARG:CB	2.17	0.56
10:dD:151:SER:OG	10:dD:152:GLN:N	2.39	0.56
7:CD:147:THR:OG1	7:CD:148:GLU:OE1	2.24	0.56
7:GD:84:ARG:NH2	7:GD:85:ASP:OD1	2.39	0.56
6:JD:43:LYS:NZ	29:JD:202:PEB:OD	2.39	0.56
6:JD:115:GLU:O	6:JD:119:THR:HG23	2.06	0.56
4:IF:47:SER:OG	4:IF:50:ARG:NH2	2.39	0.56
7:BG:154:ALA:O	29:BG:202:PEB:NA	2.32	0.56
29:FG:201:PEB:HAC1	14:MG:177:SER:OG	2.05	0.56
7:HG:50:CYS:CA	29:HG:203:PEB:HAA1	2.36	0.56
7:HG:54:ASP:CB	29:HG:203:PEB:HAA2	2.32	0.56
13:kH:248:ASP:OD2	6:OR:80:ASN:ND2	2.39	0.56
6:bI:48:HIS:HA	6:bI:51:VAL:CG2	2.35	0.56
7:HJ:66:LEU:HD11	7:HJ:126:SER:CB	2.35	0.56
7:LJ:115:GLU:HA	7:LJ:118:ILE:HB	1.87	0.56
7:PJ:20:GLY:C	7:PJ:22:SER:H	2.14	0.56
6:UJ:33:ARG:HE	6:WJ:25:GLU:HA	1.70	0.56
6:kJ:147:GLN:NE2	6:kJ:151:GLU:OE2	2.38	0.56
29:lJ:202:PEB:HMC2	6:mJ:147:GLN:OE1	2.05	0.56
7:pJ:115:GLU:HA	7:pJ:118:ILE:HB	1.87	0.56
4:EK:3:THR:HB	4:EK:4:PRO:CD	2.36	0.56
7:YK:128:ILE:O	7:YK:132:SER:OG	2.22	0.56
29:lL:202:PEB:HMC2	6:mL:147:GLN:OE1	2.05	0.56
16:xL:45:SER:O	16:xL:45:SER:OG	2.22	0.56
7:NM:129:ARG:CD	28:4P:121:HIS:HB3	2.35	0.56
29:hM:201:PEB:HAC1	7:mM:79:MET:HE2	1.88	0.56
20:EP:35:ARG:HG3	20:EP:38:ARG:NH2	2.20	0.56
20:JP:50:ILE:HA	20:JP:136:VAL:HG11	1.87	0.56
25:YP:21:SER:HB2	25:YP:46:PHE:CE2	2.41	0.56
21:nP:94:TYR:OH	22:xP:16:ARG:O	2.23	0.56
7:FQ:108:ARG:NH1	14:MQ:203:GLN:HE22	2.03	0.56
8:eR:224:PHE:HD2	7:TR:116:THR:HG23	1.70	0.56
6:QR:84:ARG:NH2	29:QR:201:PEB:O1C	2.38	0.56
6:UR:3:SER:HB3	6:UR:6:THR:HG23	1.87	0.56
7:a1:3:ASP:OD1	7:a1:3:ASP:N	2.37	0.56
7:e1:74:TYR:HH	6:l1:91:ARG:HH22	1.50	0.56
10:d4:261:THR:HG21	6:WF:54:GLU:HB2	1.87	0.56
7:C4:147:THR:OG1	7:C4:148:GLU:OE1	2.24	0.56
6:D4:142:ARG:HD2	29:D4:202:PEB:HHA1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:36:LYS:NZ	29:G4:202:PEB:HBB2	2.21	0.56
7:I5:1:MET:HG3	28:bP:118:LEU:HD22	1.86	0.56
7:L5:79:MET:HE1	13:k6:233:VAL:HG11	1.86	0.56
5:N7:102:SER:CB	26:2P:96:VAL:O	2.53	0.56
5:N7:102:SER:HB3	26:2P:96:VAL:O	2.06	0.56
7:I8:7:ARG:NH2	28:4P:88:LEU:HD22	2.18	0.56
7:I8:14:ALA:CB	21:nP:124:GLY:N	2.60	0.56
12:E8:162:ASN:CA	29:kF:203:PEB:CHB	2.84	0.56
1:X9:284:VAL:HG21	3:B9:75:PHE:HE2	1.70	0.56
5:F9:52:VAL:HG21	5:F9:87:GLU:HG3	1.88	0.56
7:V9:150:LYS:HB2	13:kH:61:ARG:NH1	2.19	0.56
6:KA:158:TYR:CD1	14:MA:265:LYS:NZ	2.71	0.56
14:MA:329:THR:OG1	14:MA:331:ASN:ND2	2.38	0.56
15:bB:272:TYR:O	7:FB:70:GLY:HA2	2.06	0.56
7:NB:17:ALA:HB1	21:MP:135:GLU:OE2	2.06	0.56
6:IC:52:VAL:HG12	6:IC:86:VAL:HG23	1.88	0.56
6:BD:43:LYS:NZ	29:BD:202:PEB:OD	2.39	0.56
7:ED:84:ARG:NH2	7:ED:85:ASP:OD1	2.39	0.56
7:KD:41:VAL:HG22	7:KD:97:LEU:CD2	2.36	0.56
6:IE:14:ALA:HB3	18:ME:51:PRO:CD	2.31	0.56
6:CG:23:ASP:O	6:CG:26:SER:OG	2.24	0.56
6:GG:23:ASP:O	6:GG:26:SER:OG	2.24	0.56
6:GG:31:ILE:O	6:GG:34:SER:OG	2.19	0.56
7:HG:61:CYS:SG	29:HG:203:PEB:C3D	2.89	0.56
4:KI:47:SER:OG	4:KI:50:ARG:NH2	2.39	0.56
6:UJ:63:TYR:HB3	6:UJ:66:LEU:HD11	1.88	0.56
3:BK:200:ALA:CB	20:IP:66:VAL:O	2.54	0.56
5:JK:77:ARG:HB2	4:MK:113:ALA:CB	2.36	0.56
6:UK:33:ARG:HE	29:UK:201:PEB:CBD	2.19	0.56
6:WK:54:GLU:OE2	29:WK:202:PEB:C2C	2.54	0.56
6:UL:70:GLY:N	6:UL:74:GLU:HG2	2.21	0.56
15:bM:202:THR:HG23	15:bM:203:PRO:HD3	0.77	0.56
6:dM:135:ARG:HD2	6:dM:157:ASP:OD1	2.00	0.56
6:jM:137:ARG:NH1	29:jM:202:PEB:O1B	2.38	0.56
20:CP:90:ARG:NH2	21:BP:73:TYR:OH	2.35	0.56
20:NP:35:ARG:HG3	20:NP:38:ARG:NH2	2.20	0.56
21:QP:148:GLU:OE1	21:QP:148:GLU:HA	2.05	0.56
24:XP:62:VAL:HG11	24:XP:131:ASN:HB2	1.88	0.56
21:jP:72:MET:HA	21:jP:77:ARG:HB3	1.88	0.56
20:rP:50:ILE:HA	20:rP:136:VAL:HG11	1.87	0.56
25:1P:827:GLU:O	25:1P:831:ILE:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FQ:141:PHE:CE2	29:FQ:203:PEB:CMB	2.89	0.56
7:VR:59:MET:HE1	29:VR:201:PEB:H2A1	1.86	0.56
1:X1:217:SER:OG	1:X1:218:MET:N	2.39	0.56
2:A1:49:ALA:HB1	2:A1:62:ARG:HH11	1.71	0.56
8:e2:58:SER:HB3	8:e2:61:GLN:CB	2.36	0.56
7:P2:83:LEU:HD12	7:P2:83:LEU:O	2.06	0.56
7:R2:75:THR:OG1	6:U2:108:TRP:O	2.22	0.56
6:S2:118:ARG:HH11	6:U2:114:ARG:CZ	2.19	0.56
7:T2:123:PRO:HA	6:U7:69:PRO:HB3	1.86	0.56
6:B4:118:ARG:NH2	6:L4:118:ARG:NH2	2.53	0.56
7:I4:102:ALA:HB1	7:I4:105:LEU:HG	1.84	0.56
7:K4:84:ARG:NH2	7:K4:85:ASP:OD1	2.39	0.56
6:L4:115:GLU:O	6:L4:119:THR:HG23	2.06	0.56
7:M4:124:THR:CB	6:UF:69:PRO:HG2	2.36	0.56
7:A5:40:ALA:CB	7:A5:161:LEU:HD13	2.34	0.56
13:k6:162:GLU:CB	5:H7:15:ARG:CZ	2.84	0.56
5:J7:52:VAL:HG21	5:J7:87:GLU:HG3	1.88	0.56
5:N7:49:SER:O	5:N7:53:THR:OG1	2.24	0.56
5:N9:52:VAL:HG21	5:N9:87:GLU:HG3	1.88	0.56
15:bB:380:LEU:HD21	28:bP:42:ALA:CB	2.36	0.56
6:SB:106:ASP:OD2	6:UB:17:ARG:NH1	2.37	0.56
6:WB:33:ARG:HH22	6:WB:147:GLN:NE2	2.03	0.56
7:DC:75:THR:HB	7:DC:78:ARG:HG3	1.88	0.56
6:GC:52:VAL:HG12	6:GC:86:VAL:HG23	1.88	0.56
10:dD:167:TYR:HB3	6:DD:14:ALA:O	2.06	0.56
10:dD:244:ARG:NH1	10:dD:247:LYS:HG2	2.21	0.56
6:JD:142:ARG:HH22	29:JD:202:PEB:CGC	2.16	0.56
6:KE:52:VAL:HG12	6:KE:86:VAL:HG23	1.88	0.56
1:XF:291:THR:HG1	5:DF:108:ARG:HH21	1.54	0.56
4:MF:47:SER:OG	4:MF:50:ARG:NH2	2.39	0.56
4:MF:143:SER:HB2	6:eJ:69:PRO:CB	2.36	0.56
6:hF:48:HIS:HA	6:hF:51:VAL:CG2	2.35	0.56
7:FG:57:SER:C	29:FG:203:PEB:HMD3	2.30	0.56
5:JI:135:LYS:HZ2	27:aP:67:GLY:CA	2.17	0.56
6:hI:48:HIS:HA	6:hI:51:VAL:CG2	2.35	0.56
6:UJ:70:GLY:N	6:UJ:74:GLU:HG2	2.21	0.56
7:ZJ:108:ARG:NH1	16:xJ:41:ASN:OD1	2.39	0.56
7:ZJ:115:GLU:HA	7:ZJ:118:ILE:HB	1.87	0.56
7:bJ:115:GLU:HA	7:bJ:118:ILE:HB	1.87	0.56
7:dJ:115:GLU:HA	7:dJ:118:ILE:HB	1.87	0.56
5:LK:20:SER:N	5:LK:23:GLN:HE21	2.00	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NL:5:PHE:HE2	7:NL:31:ILE:HD11	1.71	0.56
7:bL:115:GLU:HA	7:bL:118:ILE:HB	1.87	0.56
7:tL:111:ASN:O	16:xL:224:SER:HB2	2.06	0.56
16:wL:102:ALA:CA	16:wL:105:ARG:HG3	2.33	0.56
6:EM:36:ALA:HB1	6:EM:147:GLN:HB2	1.87	0.56
6:dM:54:GLU:HG3	6:dM:133:TYR:CE2	2.25	0.56
6:KN:76:GLN:NE2	6:KN:80:ASN:OD1	2.40	0.56
20:AP:50:ILE:HA	20:AP:136:VAL:HG11	1.87	0.56
21:DP:14:VAL:HG11	23:WP:169:SER:HB3	1.86	0.56
21:FP:148:GLU:OE1	21:FP:148:GLU:HA	2.05	0.56
20:GP:114:GLU:OE1	24:XP:51:SER:HA	2.05	0.56
21:HP:97:LEU:CD1	25:YP:35:LEU:HD22	2.36	0.56
21:IP:148:GLU:OE1	21:IP:148:GLU:HA	2.05	0.56
21:QP:74:THR:HA	31:TP:1001:CYC:OB	2.06	0.56
20:TP:50:ILE:HA	20:TP:136:VAL:HG11	1.87	0.56
21:UP:148:GLU:HA	21:UP:148:GLU:OE1	2.05	0.56
23:WP:73:ALA:O	23:WP:75:ILE:N	2.39	0.56
25:YP:243:ASP:OD2	25:YP:355:ALA:HB3	2.05	0.56
21:dP:14:VAL:HG11	23:yP:169:SER:HB3	1.87	0.56
21:fP:19:LEU:HD13	20:gP:97:ILE:HD12	1.86	0.56
20:gP:50:ILE:HA	20:gP:136:VAL:HG11	1.87	0.56
21:hP:148:GLU:HA	21:hP:148:GLU:OE1	2.05	0.56
21:kP:18:TYR:CD2	20:IP:44:THR:HG23	2.41	0.56
21:qP:148:GLU:OE1	21:qP:148:GLU:HA	2.05	0.56
23:yP:77:ASN:O	23:yP:83:ARG:HD3	2.06	0.56
6:CQ:23:ASP:O	6:CQ:26:SER:OG	2.24	0.56
14:MQ:309:CYS:O	14:MQ:313:GLU:N	2.36	0.56
6:MR:96:CYS:SG	6:MR:105:LEU:HB2	2.46	0.56
6:SR:118:ARG:HH11	6:UR:114:ARG:NE	2.04	0.56
7:VR:38:LEU:CD1	29:VR:202:PEB:OD	2.54	0.56
3:B1:13:GLN:HB3	3:B1:15:GLN:NE2	2.19	0.55
4:C1:93:ARG:NH2	5:F1:74:TYR:OH	2.28	0.55
4:G1:66:THR:O	4:G1:74:TYR:HB3	2.06	0.55
5:N1:39:ASP:CG	29:N1:1002:PEB:HMD1	2.32	0.55
6:W1:54:GLU:OE2	29:W1:202:PEB:C2C	2.54	0.55
7:Y1:128:ILE:O	7:Y1:132:SER:OG	2.22	0.55
8:e2:291:ILE:HD11	7:T2:170:ASP:HA	1.52	0.55
6:C3:99:VAL:HG12	6:C3:101:GLY:H	1.69	0.55
10:d4:133:PRO:HB3	29:E4:201:PEB:OD	2.06	0.55
7:I4:41:VAL:HG21	7:I4:98:LEU:CD2	2.36	0.55
7:K4:9:VAL:O	7:K4:12:SER:OG	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:74:TYR:CE1	15:bB:238:ARG:CZ	2.89	0.55
1:X7:106:GLN:HB2	1:X7:124:LEU:HD11	1.89	0.55
2:A7:202:MET:SD	2:A7:285:SER:OG	2.64	0.55
5:D7:52:VAL:HG21	5:D7:87:GLU:HG3	1.88	0.55
5:L7:52:VAL:HG21	5:L7:87:GLU:HG3	1.88	0.55
7:T7:76:ASN:ND2	6:W7:109:GLY:O	2.39	0.55
1:X9:295:LYS:NZ	1:X9:363:LEU:O	2.38	0.55
4:E9:93:ARG:NH2	5:H9:74:TYR:HH	2.02	0.55
5:F9:15:ARG:HB3	5:F9:17:GLU:OE2	2.06	0.55
4:I9:134:GLN:NE2	13:kH:192:VAL:CB	2.68	0.55
6:d9:145:SER:OG	6:d9:146:ALA:N	2.39	0.55
7:m9:169:PHE:O	7:m9:172:VAL:HG13	2.06	0.55
6:IA:76:GLN:NE2	6:IA:80:ASN:OD1	2.39	0.55
15:bB:289:LYS:NZ	15:bB:289:LYS:O	2.39	0.55
15:bB:343:PHE:CZ	20:KP:64:ASP:HA	2.42	0.55
6:GB:90:MET:HE3	6:GB:134:THR:HG21	1.87	0.55
7:LC:7:ARG:CZ	18:MC:258:THR:CG2	2.78	0.55
10:dD:307:TYR:CD1	10:dD:310:GLN:NE2	2.74	0.55
7:CD:39:ASP:OD1	29:CD:202:PEB:CMD	2.54	0.55
7:CD:137:GLN:OE1	29:CD:203:PEB:HHA1	2.06	0.55
7:ED:147:THR:OG1	7:ED:148:GLU:OE1	2.24	0.55
7:GD:75:THR:CA	29:JD:201:PEB:CAD	2.70	0.55
7:ID:12:SER:HB2	7:ID:17:ALA:HB3	1.89	0.55
6:LD:49:GLU:HA	6:LD:52:VAL:HG22	1.86	0.55
7:DE:75:THR:HB	7:DE:78:ARG:HG3	1.88	0.55
7:DE:134:MET:HA	7:DE:137:GLN:HE21	1.69	0.55
18:ME:303:PHE:CB	6:gL:83:TYR:CG	2.88	0.55
6:bF:48:HIS:HA	6:bF:51:VAL:CG2	2.35	0.55
6:EG:23:ASP:O	6:EG:26:SER:OG	2.24	0.55
7:FG:62:GLU:OE1	29:FG:203:PEB:HBD2	2.05	0.55
7:LG:141:PHE:CZ	29:LG:203:PEB:HMA1	2.32	0.55
6:GJ:122:LEU:HD22	29:GJ:201:PEB:NA	2.20	0.55
7:LJ:26:ALA:CA	28:4P:231:ILE:HD11	2.35	0.55
7:XJ:115:GLU:HA	7:XJ:118:ILE:HB	1.87	0.55
6:YJ:6:THR:O	6:YJ:10:SER:OG	2.23	0.55
7:tJ:115:GLU:HA	7:tJ:118:ILE:HB	1.87	0.55
1:XK:217:SER:OG	1:XK:218:MET:N	2.39	0.55
4:GK:21:ASN:ND2	4:IK:152:ALA:CB	2.66	0.55
7:BL:115:GLU:HA	7:BL:118:ILE:HB	1.87	0.55
7:FL:116:THR:HG22	7:FL:120:LEU:HD12	1.88	0.55
6:GL:122:LEU:HD22	29:GL:201:PEB:NA	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HL:3:ASP:C	7:HL:101:ASP:HB2	2.31	0.55
6:KL:6:THR:O	6:KL:10:SER:OG	2.23	0.55
6:UL:70:GLY:CA	6:UL:74:GLU:CG	2.82	0.55
7:fL:107:ASP:CB	16:wL:140:LYS:HZ1	2.18	0.55
15:bM:66:PRO:HG2	15:bM:69:MET:HG2	1.88	0.55
6:QM:20:SER:OG	6:QM:21:ASN:N	2.37	0.55
7:gM:35:ASN:HD22	7:gM:35:ASN:N	2.02	0.55
6:hM:20:SER:OG	6:hM:21:ASN:N	2.37	0.55
21:LP:1:MET:CE	21:LP:103:ILE:HD12	2.36	0.55
24:XP:75:LEU:HD11	24:XP:111:MET:HB2	1.88	0.55
21:dP:148:GLU:OE1	21:dP:148:GLU:HA	2.05	0.55
20:lP:50:ILE:HA	20:lP:136:VAL:HG11	1.87	0.55
21:oP:10:ASN:ND2	24:zP:129:VAL:O	2.30	0.55
21:sP:27:LEU:CB	20:tP:37:LEU:HD21	2.36	0.55
20:tP:50:ILE:HA	20:tP:136:VAL:HG11	1.87	0.55
21:wP:148:GLU:OE1	21:wP:148:GLU:HA	2.05	0.55
6:EQ:23:ASP:O	6:EQ:26:SER:OG	2.24	0.55
7:HQ:154:ALA:O	29:HQ:202:PEB:NA	2.32	0.55
14:MQ:174:ARG:H	14:MQ:174:ARG:CD	2.19	0.55
6:OR:28:GLN:HA	6:OR:31:ILE:HD12	1.87	0.55
6:QR:138:LEU:HB3	29:QR:202:PEB:CMD	2.36	0.55
1:X1:329:TYR:OH	5:F1:84:ARG:NH2	2.39	0.55
4:C1:3:THR:N	4:C1:6:THR:OG1	2.33	0.55
4:E1:13:ASP:OD2	5:F1:108:ARG:NH1	2.39	0.55
6:M2:3:SER:HB3	6:M2:6:THR:HG23	1.87	0.55
6:Q2:131:ILE:HG23	6:Q2:156:LEU:HD22	1.87	0.55
6:W2:28:GLN:HA	6:W2:31:ILE:HD12	1.87	0.55
7:F3:1:MET:HE1	9:O3:140:ALA:HA	1.88	0.55
7:N3:71:GLY:HA2	7:VL:155:ALA:N	2.21	0.55
6:B4:43:LYS:NZ	29:B4:202:PEB:OD	2.39	0.55
7:C4:39:ASP:OD1	29:C4:202:PEB:CMD	2.54	0.55
7:G4:12:SER:HB2	7:G4:17:ALA:HB3	1.89	0.55
6:J4:147:GLN:O	6:J4:150:VAL:N	2.29	0.55
7:M4:9:VAL:O	7:M4:12:SER:OG	2.18	0.55
7:M4:147:THR:OG1	7:M4:148:GLU:OE1	2.24	0.55
7:I5:6:SER:OG	7:I5:26:ALA:HB2	1.99	0.55
12:E5:120:TYR:OH	7:Y9:157:ASP:HB2	2.06	0.55
5:N7:52:VAL:HG21	5:N7:87:GLU:HG3	1.88	0.55
7:m7:169:PHE:O	7:m7:172:VAL:HG13	2.06	0.55
7:H8:106:GLU:OE2	7:H8:171:ARG:NH1	2.39	0.55
5:H9:49:SER:O	5:H9:53:THR:OG1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H9:140:ALA:HB2	13:kH:183:TYR:HB2	1.85	0.55
5:J9:14:ALA:CB	26:ZP:61:ASN:HD22	2.19	0.55
6:O9:145:SER:OG	6:O9:146:ALA:N	2.39	0.55
6:U9:145:SER:OG	6:U9:146:ALA:N	2.39	0.55
6:b9:145:SER:OG	6:b9:146:ALA:N	2.39	0.55
6:EA:76:GLN:NE2	6:EA:80:ASN:OD1	2.39	0.55
6:KA:30:ASN:O	6:KA:34:SER:OG	2.23	0.55
16:AB:91:VAL:HG12	16:AB:93:GLY:H	1.70	0.55
18:MC:261:VAL:CG1	6:SF:68:ASN:OD1	2.54	0.55
6:BD:90:MET:HA	6:BD:93:VAL:HG22	1.87	0.55
6:DD:90:MET:HA	6:DD:93:VAL:HG22	1.87	0.55
7:ID:39:ASP:OD1	29:ID:202:PEB:CMD	2.54	0.55
7:MD:136:ALA:HB3	29:MD:203:PEB:HBC2	1.88	0.55
6:CE:52:VAL:HG12	6:CE:86:VAL:HG23	1.88	0.55
7:FE:75:THR:HB	7:FE:78:ARG:HG3	1.88	0.55
7:JE:75:THR:HB	7:JE:78:ARG:HG3	1.88	0.55
18:ME:304:TRP:HE3	18:ME:304:TRP:N	2.04	0.55
4:GF:47:SER:OG	4:GF:50:ARG:NH2	2.39	0.55
7:cF:33:ASP:HB2	7:cF:36:LYS:HD3	1.86	0.55
7:FG:60:ILE:HD12	7:FG:64:PRO:HA	1.88	0.55
6:IG:31:ILE:O	6:IG:34:SER:OG	2.20	0.55
6:IG:111:ALA:HB2	14:MG:252:TYR:CE1	2.41	0.55
4:II:47:SER:OG	4:II:50:ARG:NH2	2.39	0.55
6:EJ:106:ASP:OD2	6:GJ:17:ARG:NH1	2.39	0.55
6:IJ:54:GLU:HG2	6:IJ:133:TYR:OH	2.05	0.55
7:rJ:115:GLU:HA	7:rJ:118:ILE:HB	1.87	0.55
6:sJ:2:LYS:HD2	16:xJ:80:GLY:HA3	1.87	0.55
5:HK:145:THR:HG22	29:HK:1002:PEB:CMA	2.37	0.55
5:JK:33:GLU:OE2	5:JK:156:LEU:CD2	2.55	0.55
29:RL:202:PEB:CAD	6:SL:33:ARG:CZ	2.79	0.55
15:bM:343:PHE:HE2	20:mP:63:PRO:O	1.88	0.55
21:BP:154:ASP:O	21:BP:158:SER:OG	2.25	0.55
21:MP:154:ASP:O	21:MP:158:SER:OG	2.25	0.55
20:PP:94:TYR:CE2	21:UP:13:ASP:HB2	2.42	0.55
21:UP:140:LEU:HD11	20:gP:49:ARG:NH2	2.21	0.55
27:aP:38:TYR:CZ	21:uP:6:THR:HG23	2.41	0.55
21:dP:154:ASP:O	21:dP:158:SER:OG	2.25	0.55
21:uP:148:GLU:OE1	21:uP:148:GLU:HA	2.05	0.55
23:yP:53:LYS:HE3	23:yP:57:GLU:OE2	2.06	0.55
25:1P:21:SER:HB2	25:1P:46:PHE:CE2	2.41	0.55
7:LQ:57:SER:HA	7:LQ:60:ILE:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MQ:114:PHE:HA	14:MQ:117:ARG:HE	1.71	0.55
8:eR:154:TYR:CE1	29:XR:201:PEB:HBC2	2.40	0.55
7:RR:42:ASN:HA	7:RR:45:VAL:HG22	1.86	0.55
2:A1:108:VAL:HG13	2:A1:110:GLY:H	1.72	0.55
5:J1:8:VAL:HG12	5:J1:19:LEU:HD22	1.89	0.55
8:e2:253:ALA:HB2	7:X2:119:ALA:HB1	1.89	0.55
6:M2:139:CYS:HB2	29:M2:202:PEB:HBA3	1.84	0.55
6:O2:69:PRO:CG	13:k6:232:PHE:HB2	2.36	0.55
6:O2:131:ILE:HG23	6:O2:156:LEU:HD22	1.87	0.55
6:U2:84:ARG:NH2	29:U2:201:PEB:O1C	2.38	0.55
7:V2:79:MET:O	7:V2:83:LEU:HG	2.06	0.55
6:D4:20:SER:N	6:D4:23:ASP:OD2	2.29	0.55
7:E4:12:SER:HB2	7:E4:17:ALA:HB3	1.89	0.55
6:F4:131:ILE:O	6:F4:134:THR:OG1	2.22	0.55
7:G4:84:ARG:NH2	7:G4:85:ASP:OD1	2.39	0.55
6:H4:43:LYS:NZ	29:H4:202:PEB:OD	2.39	0.55
6:J4:33:ARG:HD2	6:L4:25:GLU:OE1	2.06	0.55
6:J4:115:GLU:O	6:J4:119:THR:HG23	2.06	0.55
7:K4:36:LYS:NZ	29:K4:202:PEB:HBB2	2.21	0.55
7:K4:129:ARG:NH2	7:K4:132:SER:OG	2.39	0.55
7:H5:91:ARG:NH1	12:E5:62:GLU:OE1	2.38	0.55
2:A7:157:ASP:HA	2:A7:160:VAL:HG22	1.87	0.55
5:F7:52:VAL:HG21	5:F7:87:GLU:HG3	1.88	0.55
4:K7:57:GLN:CD	5:JF:145:THR:HG1	1.96	0.55
6:Q7:145:SER:OG	6:Q7:146:ALA:N	2.39	0.55
6:W7:145:SER:OG	6:W7:146:ALA:N	2.39	0.55
3:B9:23:ASN:OD1	4:M9:108:ASP:CG	2.49	0.55
3:B9:102:ASN:HB3	5:L9:111:ASN:HB3	1.88	0.55
5:D9:49:SER:O	5:D9:53:THR:OG1	2.24	0.55
5:H9:150:ILE:CG2	7:ZM:159:THR:HG23	2.31	0.55
5:J9:52:VAL:HG21	5:J9:87:GLU:HG3	1.88	0.55
7:eB:60:ILE:C	7:eB:62:GLU:H	2.13	0.55
7:JC:75:THR:HB	7:JC:78:ARG:HG3	1.88	0.55
10:dD:67:SER:O	10:dD:71:ARG:HG3	2.07	0.55
6:BD:115:GLU:O	6:BD:119:THR:HG23	2.06	0.55
6:DD:115:GLU:O	6:DD:119:THR:HG23	2.06	0.55
7:ED:173:GLY:O	7:ED:177:SER:OG	2.14	0.55
7:GD:12:SER:HB2	7:GD:17:ALA:HB3	1.88	0.55
7:KD:50:CYS:SG	29:KD:203:PEB:C3A	2.91	0.55
7:KD:84:ARG:NH2	7:KD:85:ASP:OD1	2.39	0.55
6:LD:90:MET:HA	6:LD:93:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LE:11:ASN:HB3	18:ME:259:PRO:HG3	1.89	0.55
18:ME:312:LEU:HA	7:dL:62:GLU:HA	1.88	0.55
7:FG:47:ASN:CG	29:FG:203:PEB:HMA3	2.30	0.55
7:FG:54:ASP:OD1	29:FG:203:PEB:C4C	2.54	0.55
7:HG:141:PHE:CZ	29:HG:203:PEB:HMB3	2.40	0.55
13:kH:35:ILE:HG21	32:kH:302:PMS:H6	1.87	0.55
3:BI:204:ARG:NH2	21:SP:57:ALA:CB	2.69	0.55
4:CI:47:SER:OG	4:CI:50:ARG:NH2	2.39	0.55
5:LI:71:GLY:HA2	27:aP:111:MET:HG3	1.87	0.55
4:MI:47:SER:OG	4:MI:50:ARG:NH2	2.39	0.55
7:kI:107:ASP:OD1	7:kI:107:ASP:N	2.38	0.55
7:tJ:45:VAL:O	6:uJ:161:ASN:ND2	2.40	0.55
16:wJ:219:ALA:HB1	16:xJ:47:ARG:HH22	1.71	0.55
2:AK:108:VAL:HG13	2:AK:110:GLY:H	1.72	0.55
6:UK:5:ILE:CB	7:VK:3:ASP:OD2	2.52	0.55
7:FL:7:ARG:O	7:FL:11:ASN:CG	2.50	0.55
6:UL:81:LYS:HE2	29:UL:201:PEB:HAB1	1.88	0.55
7:fL:107:ASP:CG	16:wL:140:LYS:HZ1	2.14	0.55
7:tL:45:VAL:O	6:uL:161:ASN:ND2	2.40	0.55
6:CM:6:THR:CG2	7:DM:1:MET:HE2	2.36	0.55
6:CM:135:ARG:HD2	6:CM:157:ASP:OD1	1.99	0.55
6:UM:67:LYS:HD3	14:MQ:97:PHE:CE1	2.40	0.55
6:IN:76:GLN:NE2	6:IN:80:ASN:OD1	2.39	0.55
14:MN:329:THR:OG1	14:MN:331:ASN:ND2	2.38	0.55
9:OO:262:THR:HG23	9:OO:263:LEU:HD12	1.87	0.55
20:EP:50:ILE:HA	20:EP:136:VAL:HG11	1.87	0.55
21:HP:148:GLU:OE1	21:HP:148:GLU:HA	2.05	0.55
31:HP:1001:CYC:HMA1	25:YP:420:PHE:HZ	1.71	0.55
27:aP:36:SER:N	21:uP:106:GLU:OE2	2.39	0.55
21:jP:154:ASP:O	21:jP:158:SER:OG	2.25	0.55
21:kP:1:MET:CE	21:kP:103:ILE:HD12	2.36	0.55
20:mP:97:ILE:HD12	21:qP:19:LEU:CD1	2.36	0.55
21:oP:1:MET:CE	21:oP:103:ILE:HD12	2.37	0.55
21:sP:148:GLU:OE1	21:sP:148:GLU:HA	2.05	0.55
21:uP:154:ASP:O	21:uP:158:SER:OG	2.25	0.55
6:CQ:33:ARG:HA	6:CQ:33:ARG:NE	2.21	0.55
7:HQ:136:ALA:C	29:HQ:203:PEB:CGC	2.77	0.55
6:SR:142:ARG:NH2	29:SR:202:PEB:NB	2.28	0.55
6:UR:28:GLN:HA	6:UR:31:ILE:HD12	1.87	0.55
1:X1:118:PHE:HA	1:X1:122:GLN:HB2	1.86	0.55
5:L1:33:GLU:OE1	5:L1:156:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:k1:89:ILE:HD11	7:k1:134:MET:HE1	1.88	0.55
6:S2:9:VAL:CG2	7:T2:1:MET:HE1	2.37	0.55
6:U2:139:CYS:HG	29:U2:202:PEB:CBA	1.29	0.55
10:d4:67:SER:HG	10:d4:69:GLU:CD	2.14	0.55
6:B4:4:VAL:O	6:B4:7:THR:OG1	2.18	0.55
7:E4:36:LYS:NZ	29:E4:202:PEB:HBB2	2.22	0.55
6:F4:147:GLN:O	6:F4:150:VAL:N	2.29	0.55
6:J4:142:ARG:HD2	29:J4:202:PEB:HHA1	1.87	0.55
7:M4:77:ARG:HH21	7:M4:78:ARG:HG3	1.70	0.55
7:I5:79:MET:HB3	15:bB:229:LEU:HD23	1.87	0.55
12:E5:185:ALA:CB	6:bI:67:LYS:HZ3	2.19	0.55
3:B7:228:MET:CB	20:rP:56:GLN:CG	2.85	0.55
6:S7:145:SER:OG	6:S7:146:ALA:N	2.39	0.55
6:Q9:53:LYS:CG	4:EK:49:GLN:HG3	2.15	0.55
7:T9:76:ASN:ND2	6:W9:109:GLY:O	2.39	0.55
6:IA:37:ARG:CZ	6:IA:100:GLY:CA	2.84	0.55
6:EB:17:ARG:O	7:FB:95:TYR:OH	2.20	0.55
6:CC:52:VAL:HG12	6:CC:86:VAL:HG23	1.88	0.55
7:CD:76:ASN:OD1	29:FD:201:PEB:CMC	2.54	0.55
7:CD:84:ARG:NH2	7:CD:85:ASP:OD1	2.39	0.55
7:CD:160:SER:O	7:CD:164:GLU:HG3	2.06	0.55
6:FD:115:GLU:O	6:FD:119:THR:HG23	2.06	0.55
7:GD:130:ALA:O	7:GD:133:ILE:HG22	2.05	0.55
6:LD:92:LEU:HD21	6:LD:108:TRP:HB2	1.89	0.55
7:LE:116:THR:HG22	18:ME:213:THR:HB	1.88	0.55
7:RF:14:ALA:HA	7:VF:69:PRO:HB2	1.89	0.55
6:AG:23:ASP:O	6:AG:26:SER:OG	2.24	0.55
7:FG:61:CYS:SG	29:FG:203:PEB:CAD	2.94	0.55
6:IG:2:LYS:HE2	14:MG:254:VAL:CG1	2.36	0.55
6:KG:124:THR:HA	6:KG:127:TYR:HD2	1.72	0.55
13:kH:134:ILE:O	13:kH:134:ILE:HG13	2.05	0.55
5:LI:41:VAL:HG21	5:LI:98:ILE:HG22	1.87	0.55
7:FJ:35:ASN:ND2	29:FJ:202:PEB:CGC	2.66	0.55
6:eJ:147:GLN:NE2	6:eJ:151:GLU:OE2	2.37	0.55
7:IJ:115:GLU:HA	7:IJ:118:ILE:HB	1.87	0.55
4:IK:40:ALA:HB2	4:IK:146:VAL:CG1	2.36	0.55
6:AL:147:GLN:OE1	29:AL:203:PEB:HMC2	2.00	0.55
6:cL:6:THR:O	6:cL:10:SER:OG	2.23	0.55
7:nL:79:MET:HG2	29:uL:202:PEB:HAC1	1.88	0.55
19:zL:363:ARG:CZ	21:LP:67:ARG:HH22	2.19	0.55
17:BM:154:LEU:HD13	17:BM:163:GLU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GM:147:GLN:CA	6:GM:147:GLN:HE21	2.19	0.55
7:NM:25:GLN:HG3	21:OP:147:LYS:CG	1.96	0.55
6:WM:33:ARG:HH22	6:WM:147:GLN:NE2	2.03	0.55
7:HN:25:GLN:HA	7:HN:28:LYS:HD2	1.86	0.55
6:IN:37:ARG:CZ	6:IN:100:GLY:CA	2.84	0.55
21:DP:1:MET:CE	21:DP:103:ILE:HD12	2.36	0.55
20:GP:17:TYR:CE2	23:WP:96:ARG:HA	2.42	0.55
21:HP:154:ASP:O	21:HP:158:SER:OG	2.25	0.55
20:NP:56:GLN:O	20:NP:60:GLN:HG3	2.07	0.55
21:SP:1:MET:CE	21:SP:103:ILE:HD12	2.36	0.55
21:SP:6:THR:HG23	27:3P:38:TYR:CE2	2.40	0.55
21:SP:148:GLU:HA	21:SP:148:GLU:OE1	2.05	0.55
25:YP:173:VAL:O	25:YP:252:ILE:HD12	2.07	0.55
20:gP:56:GLN:O	20:gP:60:GLN:HG3	2.07	0.55
20:iP:50:ILE:HA	20:iP:136:VAL:HG11	1.87	0.55
21:nP:27:LEU:HD11	22:xP:97:LEU:CD2	2.36	0.55
24:zP:75:LEU:HD11	24:zP:111:MET:HB2	1.88	0.55
25:1P:24:THR:HG23	25:1P:39:GLU:HB2	1.87	0.55
25:1P:77:VAL:CB	25:1P:133:LYS:HE2	2.35	0.55
25:1P:657:LYS:O	25:1P:661:ILE:HG12	2.06	0.55
6:AQ:23:ASP:O	6:AQ:26:SER:OG	2.24	0.55
6:CQ:2:LYS:NZ	14:MQ:138:SER:CB	2.69	0.55
7:JQ:154:ALA:O	29:JQ:202:PEB:NA	2.32	0.55
6:KQ:23:ASP:O	6:KQ:26:SER:OG	2.24	0.55
7:XR:84:ARG:O	7:XR:87:GLU:N	2.37	0.55
29:Q1:202:PEB:NC	29:Q1:202:PEB:NB	2.50	0.55
6:U1:5:ILE:CB	7:V1:3:ASP:OD2	2.52	0.55
6:M2:96:CYS:SG	6:M2:105:LEU:HB2	2.46	0.55
6:O2:3:SER:HB3	6:O2:6:THR:HG23	1.87	0.55
6:Q2:3:SER:HB3	6:Q2:6:THR:HG23	1.87	0.55
6:F4:115:GLU:O	6:F4:119:THR:HG23	2.06	0.55
6:J4:43:LYS:NZ	29:J4:202:PEB:OD	2.39	0.55
13:k6:271:LEU:HD11	6:U7:80:ASN:OD1	2.05	0.55
6:Z7:145:SER:OG	6:Z7:146:ALA:N	2.39	0.55
2:A9:238:ARG:NH2	2:A9:241:GLN:OE1	2.39	0.55
4:K9:93:ARG:NH2	5:N9:74:TYR:OH	2.40	0.55
5:L9:52:VAL:HG21	5:L9:87:GLU:HG3	1.88	0.55
15:bB:380:LEU:HD21	28:bP:42:ALA:HB1	1.89	0.55
16:AB:172:VAL:HG11	7:kB:115:GLU:OE1	2.03	0.55
30:AB:304:PUB:O1B	6:jB:2:LYS:NZ	2.35	0.55
6:QB:54:GLU:CD	29:QB:204:PEB:HMC2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AC:25:GLU:CD	6:CC:33:ARG:HG3	2.31	0.55
7:DC:73:CYS:CB	7:DC:79:MET:SD	2.88	0.55
6:KC:52:VAL:HG12	6:KC:86:VAL:HG23	1.88	0.55
18:MC:232:MET:HE2	6:SF:142:ARG:CZ	2.36	0.55
6:DD:81:LYS:HZ1	29:DD:201:PEB:C1C	2.19	0.55
6:JD:147:GLN:O	6:JD:150:VAL:N	2.29	0.55
5:DF:41:VAL:HG21	5:DF:98:ILE:HG22	1.87	0.55
6:EG:2:LYS:NZ	14:MG:194:ILE:N	2.54	0.55
7:FG:84:ARG:HH21	14:MG:174:ARG:NH2	2.04	0.55
7:JG:94:SER:HA	7:JG:97:LEU:HB2	1.87	0.55
4:MI:143:SER:HB2	6:eL:69:PRO:CB	2.36	0.55
6:jI:158:TYR:OH	6:II:17:ARG:NH2	2.40	0.55
7:BJ:115:GLU:HA	7:BJ:118:ILE:HB	1.87	0.55
6:QJ:44:LEU:O	6:QJ:48:HIS:HB3	2.07	0.55
6:UJ:81:LYS:HE2	29:UJ:201:PEB:HAB1	1.88	0.55
5:HK:35:ASN:ND2	29:HK:1002:PEB:C4C	2.69	0.55
4:IK:142:LEU:HD13	4:IK:146:VAL:HG12	1.88	0.55
5:NK:39:ASP:CG	29:NK:1002:PEB:HMD1	2.32	0.55
6:WK:54:GLU:OE2	29:WK:202:PEB:C3C	2.55	0.55
7:FL:5:PHE:CZ	7:FL:31:ILE:HG13	2.40	0.55
7:HL:133:ILE:C	7:HL:135:LYS:H	2.14	0.55
6:ML:43:LYS:CB	6:ML:144:MET:HE3	2.35	0.55
6:mL:90:MET:HB2	7:nL:18:TYR:OH	2.07	0.55
6:qL:6:THR:O	6:qL:10:SER:OG	2.23	0.55
16:wL:183:LYS:HZ2	16:xL:40:VAL:HA	1.70	0.55
7:NM:170:ASP:CA	28:4P:184:THR:HG22	2.37	0.55
6:EN:76:GLN:NE2	6:EN:80:ASN:OD1	2.39	0.55
21:FP:1:MET:CE	21:FP:103:ILE:HD12	2.36	0.55
21:FP:154:ASP:O	21:FP:158:SER:OG	2.25	0.55
21:BP:148:GLU:HA	21:BP:148:GLU:OE1	2.05	0.55
21:HP:17:LYS:CE	25:YP:94:GLU:HG2	2.36	0.55
21:OP:154:ASP:O	21:OP:158:SER:OG	2.25	0.55
21:QP:154:ASP:O	21:QP:158:SER:OG	2.25	0.55
25:YP:24:THR:HG23	25:YP:39:GLU:HB2	1.87	0.55
21:kP:154:ASP:O	21:kP:158:SER:OG	2.25	0.55
20:mP:50:ILE:HA	20:mP:136:VAL:HG11	1.87	0.55
20:vP:50:ILE:HA	20:vP:136:VAL:HG11	1.87	0.55
7:LQ:58:GLY:CA	29:LQ:202:PEB:HMC1	2.37	0.55
7:LQ:137:GLN:NE2	29:LQ:202:PEB:HHA1	2.21	0.55
6:QR:28:GLN:HA	6:QR:31:ILE:HD12	1.87	0.55
6:SR:138:LEU:HB2	29:SR:202:PEB:HMD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I1:93:ARG:NH1	5:J1:16:GLY:HA2	2.21	0.55
5:J1:33:GLU:OE2	5:J1:156:LEU:HG	2.06	0.55
5:N1:5:PHE:HD1	5:N1:27:LEU:HD23	1.69	0.55
8:e2:144:THR:O	8:e2:149:GLN:HG2	2.06	0.55
6:O2:115:GLU:N	6:O2:118:ARG:NH2	2.40	0.55
6:Q2:84:ARG:NH2	29:Q2:201:PEB:O1C	2.38	0.55
7:T2:110:LEU:HB3	7:T2:175:ALA:CB	2.36	0.55
9:O3:125:ARG:NH1	9:O3:181:ASP:OD1	2.40	0.55
10:d4:244:ARG:NH1	10:d4:247:LYS:HG2	2.21	0.55
6:D4:115:GLU:O	6:D4:119:THR:HG23	2.06	0.55
7:I4:9:VAL:O	7:I4:12:SER:OG	2.19	0.55
7:M4:51:MET:HE2	7:M4:141:PHE:HE2	1.71	0.55
2:A7:153:GLN:HG2	2:A7:156:GLU:OE2	2.06	0.55
5:F7:49:SER:O	5:F7:53:THR:OG1	2.24	0.55
7:B8:72:MEN:HE21	7:B8:122:VAL:HG22	1.87	0.55
6:Q9:69:PRO:HD3	13:kH:102:TYR:HE1	1.66	0.55
15:bB:341:ALA:HB1	20:KP:68:PRO:CG	2.28	0.55
7:KD:36:LYS:NZ	29:KD:202:PEB:HBB2	2.21	0.55
18:ME:312:LEU:CG	7:vL:69:PRO:HD2	2.33	0.55
1:XF:226:SER:H	1:XF:229:ALA:HB3	1.71	0.55
7:BG:136:ALA:C	29:BG:203:PEB:O1C	2.49	0.55
6:IG:44:LEU:HD12	7:JG:18:TYR:HE2	1.72	0.55
7:LG:54:ASP:HB2	29:LG:203:PEB:CBA	2.37	0.55
7:LG:116:THR:CA	14:MG:233:ALA:HB1	2.36	0.55
7:LG:136:ALA:CB	29:LG:203:PEB:O2C	2.54	0.55
7:LG:140:ALA:CB	29:LG:203:PEB:HAB2	2.37	0.55
1:XI:226:SER:H	1:XI:229:ALA:HB3	1.71	0.55
7:RI:14:ALA:HA	7:VI:69:PRO:HB2	1.89	0.55
7:HJ:3:ASP:C	7:HJ:101:ASP:HB2	2.31	0.55
7:jJ:115:GLU:HA	7:jJ:118:ILE:HB	1.87	0.55
4:CK:113:ALA:O	5:FK:77:ARG:HA	2.06	0.55
7:XL:115:GLU:HA	7:XL:118:ILE:HB	1.87	0.55
7:jL:115:GLU:HA	7:jL:118:ILE:HB	1.87	0.55
7:iM:62:GLU:OE2	7:iM:129:ARG:HB3	2.07	0.55
14:MN:234:GLU:HG3	14:MN:319:PHE:HB3	1.89	0.55
6:AO:69:PRO:CG	27:3P:158:GLY:HA3	2.34	0.55
20:NP:50:ILE:HA	20:NP:136:VAL:HG11	1.87	0.55
21:OP:1:MET:CE	21:OP:103:ILE:HD12	2.36	0.55
20:PP:31:LEU:HB3	26:ZP:119:ALA:CB	2.35	0.55
21:kP:87:TYR:HH	25:1P:365:SER:HG	1.51	0.55
21:nP:1:MET:CE	21:nP:103:ILE:HD12	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:wP:1:MET:CE	21:wP:103:ILE:HD12	2.36	0.55
7:FQ:50:CYS:O	29:FQ:203:PEB:HBA1	2.06	0.55
7:FQ:137:GLN:NE2	29:FQ:203:PEB:C1B	2.67	0.55
7:HQ:94:SER:HA	7:HQ:97:LEU:HB2	1.87	0.55
8:eR:70:GLY:HA2	8:eR:95:LEU:HD11	1.89	0.55
7:XR:57:SER:O	7:XR:61:CYS:SG	2.65	0.55
5:N1:47:ASN:OD1	5:N1:141:LEU:HD21	2.07	0.55
7:P2:57:SER:O	7:P2:61:CYS:SG	2.65	0.55
6:S2:131:ILE:HG23	6:S2:156:LEU:HD22	1.89	0.55
7:V2:38:LEU:CD1	29:V2:202:PEB:OD	2.54	0.55
10:d4:163:VAL:CG1	7:E4:88:ILE:HD11	2.36	0.55
10:d4:338:GLU:HB3	10:dD:327:SER:HG	1.69	0.55
6:B4:92:LEU:HD21	6:B4:108:TRP:HB2	1.89	0.55
7:I4:104:VAL:HG23	7:I4:108:ARG:NE	2.22	0.55
7:I5:1:MET:CG	28:bP:118:LEU:HD22	2.36	0.55
11:D5:260:THR:CG2	7:TK:150:LYS:H	2.01	0.55
12:E5:37:VAL:CG2	7:a9:167:SER:CB	2.85	0.55
6:d7:145:SER:OG	6:d7:146:ALA:N	2.39	0.55
7:I8:116:THR:CG2	15:bM:403:PRO:HG3	2.34	0.55
2:A9:251:ARG:HE	2:A9:277:PRO:HG2	1.70	0.55
6:j9:145:SER:OG	6:j9:146:ALA:N	2.39	0.55
7:DA:79:MET:HG3	29:KA:201:PEB:HMC3	1.89	0.55
16:AB:242:ARG:NH2	16:AB:257:ASN:OD1	2.40	0.55
29:hB:201:PEB:HAC1	7:mB:79:MET:HE2	1.88	0.55
7:iB:62:GLU:OE2	7:iB:129:ARG:HB3	2.07	0.55
7:HC:75:THR:HB	7:HC:78:ARG:HG3	1.88	0.55
7:ED:12:SER:HB2	7:ED:17:ALA:HB3	1.89	0.55
7:ED:130:ALA:O	7:ED:133:ILE:HG22	2.05	0.55
7:ED:160:SER:O	7:ED:164:GLU:HG3	2.06	0.55
6:FD:142:ARG:HD2	29:FD:202:PEB:HHA1	1.87	0.55
7:ID:94:SER:O	7:ID:98:LEU:HG	2.07	0.55
7:KD:129:ARG:NH2	7:KD:132:SER:OG	2.39	0.55
29:LE:201:PEB:CGB	18:ME:219:SER:HB2	2.36	0.55
1:XF:105:LYS:NZ	7:aF:91:ARG:NH1	2.54	0.55
6:IG:23:ASP:O	6:IG:26:SER:OG	2.24	0.55
13:kH:5:PRO:HB2	13:kH:10:TYR:HE2	1.71	0.55
7:tJ:113:LEU:HD13	16:xJ:220:TYR:CZ	2.42	0.55
5:FK:20:SER:H	5:FK:23:GLN:NE2	2.02	0.55
4:GK:66:THR:O	4:GK:74:TYR:HB3	2.06	0.55
7:NL:114:LYS:HE3	7:NL:176:ILE:C	2.18	0.55
6:YL:33:ARG:NH2	29:bL:202:PEB:C4D	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:pL:111:ASN:HD22	16:xL:257:ASN:HB3	1.71	0.55
7:rL:115:GLU:HA	7:rL:118:ILE:HB	1.87	0.55
6:KN:131:ILE:CD1	6:KN:159:LEU:HD21	2.35	0.55
6:GO:71:GLU:OE2	6:IO:62:LYS:NZ	2.40	0.55
20:AP:56:GLN:O	20:AP:60:GLN:HG3	2.07	0.55
21:IP:1:MET:CE	21:IP:103:ILE:HD12	2.36	0.55
20:KP:56:GLN:O	20:KP:60:GLN:HG3	2.07	0.55
21:LP:154:ASP:O	21:LP:158:SER:OG	2.25	0.55
21:MP:1:MET:CE	21:MP:103:ILE:HD12	2.36	0.55
20:TP:56:GLN:O	20:TP:60:GLN:HG3	2.07	0.55
21:UP:1:MET:CE	21:UP:103:ILE:HD12	2.36	0.55
22:VP:145:GLU:O	22:VP:149:VAL:HG23	2.06	0.55
20:cP:56:GLN:O	20:cP:60:GLN:HG3	2.07	0.55
21:sP:1:MET:CE	21:sP:103:ILE:HD12	2.36	0.55
21:sP:75:THR:HG22	20:vP:115:MET:SD	2.47	0.55
21:wP:154:ASP:O	21:wP:158:SER:OG	2.25	0.55
6:CQ:109:GLY:O	7:HQ:76:ASN:ND2	2.40	0.55
7:JQ:108:ARG:CD	14:MQ:257:THR:HG22	2.25	0.55
8:eR:84:LYS:CG	8:eR:85:PRO:HD2	2.35	0.55
8:eR:142:ALA:HB1	8:eR:146:ARG:HH12	1.71	0.55
6:QR:138:LEU:N	29:QR:202:PEB:HMD1	2.22	0.55
7:VR:37:ARG:O	7:VR:41:VAL:HG22	2.07	0.55
4:G1:40:ALA:HB2	4:G1:146:VAL:CG1	2.36	0.55
8:e2:86:LEU:C	8:e2:88:GLY:H	2.15	0.55
29:e2:401:PEB:C4A	7:P2:82:CYS:HB2	2.36	0.55
6:Q2:142:ARG:NE	29:Q2:202:PEB:CHA	2.66	0.55
7:T2:57:SER:O	7:T2:61:CYS:SG	2.65	0.55
10:d4:93:ARG:C	10:d4:95:SER:H	2.15	0.55
6:B4:9:VAL:HG13	7:C4:95:TYR:HE1	1.60	0.55
7:C4:36:LYS:NZ	29:C4:202:PEB:HBB2	2.21	0.55
7:E4:9:VAL:O	7:E4:12:SER:OG	2.19	0.55
7:I4:94:SER:O	7:I4:98:LEU:HG	2.07	0.55
6:L4:92:LEU:HD21	6:L4:108:TRP:HB2	1.89	0.55
7:M4:50:CYS:CA	29:M4:203:PEB:HAA1	2.37	0.55
7:M4:124:THR:CB	6:UF:69:PRO:CG	2.84	0.55
6:O7:145:SER:OG	6:O7:146:ALA:N	2.39	0.55
12:E8:173:PHE:CZ	6:ZF:83:TYR:CD2	2.95	0.55
2:A9:202:MET:SD	2:A9:285:SER:OG	2.64	0.55
4:C9:33:ARG:HG2	4:M9:25:GLN:HG2	1.87	0.55
6:S9:145:SER:OG	6:S9:146:ALA:N	2.39	0.55
6:AA:76:GLN:NE2	6:AA:80:ASN:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CA:76:GLN:NE2	6:CA:80:ASN:OD1	2.39	0.55
7:LB:62:GLU:OE2	7:LB:129:ARG:HB3	2.07	0.55
7:LC:75:THR:HB	7:LC:78:ARG:HG3	1.88	0.55
6:FD:81:LYS:HZ1	29:FD:201:PEB:C1C	2.19	0.55
7:ID:147:THR:OG1	7:ID:148:GLU:OE1	2.24	0.55
7:KD:12:SER:HB2	7:KD:17:ALA:HB3	1.89	0.55
7:HE:75:THR:HB	7:HE:78:ARG:HG3	1.88	0.55
3:BF:219:ALA:HB2	27:3P:61:ARG:N	2.20	0.55
6:CG:40:ALA:HB3	6:CG:97:LEU:HD21	1.89	0.55
6:CG:124:THR:HA	6:CG:127:TYR:HD2	1.72	0.55
6:KG:31:ILE:O	6:KG:34:SER:OG	2.19	0.55
7:LG:77:ARG:CZ	14:MG:312:GLU:OE2	2.55	0.55
4:II:1:MET:CG	4:II:109:GLU:OE2	2.51	0.55
7:FJ:5:PHE:CZ	7:FJ:31:ILE:HG13	2.40	0.55
7:FJ:125:ASN:HD21	7:XJ:70:GLY:HA2	1.72	0.55
6:kJ:6:THR:O	6:kJ:10:SER:OG	2.23	0.55
1:XK:332:ASN:HD21	3:BK:31:ILE:HD11	1.71	0.55
5:FK:47:ASN:OD1	5:FK:141:LEU:CD2	2.55	0.55
6:WL:72:ALA:CB	29:WL:202:PEB:OA	2.55	0.55
7:DN:75:THR:HG21	6:KN:108:TRP:CD1	2.42	0.55
7:DN:79:MET:HG3	29:KN:201:PEB:HMC3	1.89	0.55
20:CP:56:GLN:O	20:CP:60:GLN:HG3	2.07	0.55
20:GP:45:GLU:OE2	21:dP:139:SER:CB	2.55	0.55
21:HP:1:MET:CE	21:HP:103:ILE:HD12	2.36	0.55
21:HP:75:THR:HG23	20:JP:108:GLY:HA2	1.89	0.55
21:LP:72:MET:HA	21:LP:77:ARG:HB3	1.88	0.55
23:WP:77:ASN:O	23:WP:83:ARG:HD3	2.06	0.55
25:YP:70:ARG:HD2	25:YP:201:THR:OG1	2.07	0.55
21:kP:72:MET:HA	21:kP:77:ARG:HB3	1.88	0.55
20:vP:56:GLN:O	20:vP:60:GLN:HG3	2.07	0.55
24:zP:62:VAL:HG11	24:zP:131:ASN:HB2	1.88	0.55
24:zP:107:ARG:HG2	24:zP:111:MET:HE2	1.88	0.55
25:1P:667:LEU:HD23	25:1P:668:LYS:N	2.22	0.55
6:AQ:157:ASP:CB	7:DQ:46:SER:HA	2.35	0.55
6:EQ:124:THR:HA	6:EQ:127:TYR:HD2	1.72	0.55
7:HQ:141:PHE:HZ	29:HQ:203:PEB:C2A	2.18	0.55
6:MR:137:ARG:HH21	29:MR:202:PEB:CHB	2.19	0.55
6:UR:37:ARG:CB	6:UR:151:GLU:OE1	2.39	0.55
6:WR:131:ILE:HG23	6:WR:156:LEU:HD22	1.87	0.55
5:F1:47:ASN:ND2	5:F1:141:LEU:CD2	2.49	0.55
4:I1:40:ALA:HB2	4:I1:146:VAL:CG1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K1:40:ALA:HB2	4:K1:146:VAL:CG1	2.36	0.55
6:W1:53:LYS:CD	6:W1:53:LYS:H	2.19	0.55
6:W1:54:GLU:OE2	29:W1:202:PEB:C3C	2.55	0.55
6:M2:37:ARG:NH1	6:O2:25:GLU:HG3	2.22	0.55
7:V2:25:GLN:O	7:V2:29:SER:OG	2.20	0.55
7:V2:37:ARG:O	7:V2:41:VAL:HG22	2.07	0.55
6:W2:65:TYR:CE1	6:W2:66:LEU:HD13	2.37	0.55
6:W2:131:ILE:HG23	6:W2:156:LEU:HD22	1.87	0.55
10:d4:151:SER:OG	10:d4:152:GLN:N	2.39	0.55
10:d4:307:TYR:CD1	10:d4:310:GLN:NE2	2.74	0.55
7:C4:84:ARG:NH2	7:C4:85:ASP:OD1	2.39	0.55
7:E4:84:ARG:NH2	7:E4:85:ASP:OD1	2.39	0.55
6:F4:43:LYS:HD3	6:F4:144:MET:HB3	1.89	0.55
7:F5:106:GLU:OE2	7:F5:171:ARG:NH1	2.39	0.55
13:k6:17:TRP:HH2	13:k6:134:ILE:CD1	2.03	0.55
13:k6:257:PRO:HG2	13:k6:261:MET:O	2.07	0.55
5:L7:49:SER:O	5:L7:53:THR:OG1	2.24	0.55
7:I8:28:LYS:CB	19:zJ:290:LEU:C	2.80	0.55
7:L8:106:GLU:OE2	7:L8:171:ARG:NH1	2.39	0.55
3:B9:174:GLU:CD	26:ZP:80:SER:O	2.47	0.55
6:U9:69:PRO:CG	7:TR:123:PRO:CB	2.58	0.55
6:AA:137:ARG:HG3	29:AA:202:PEB:HMD2	1.89	0.55
7:HB:62:GLU:OE2	7:HB:129:ARG:HB3	2.07	0.55
7:BC:75:THR:HB	7:BC:78:ARG:HG3	1.88	0.55
10:dD:278:GLY:CA	6:WI:69:PRO:HD2	2.36	0.55
7:ED:36:LYS:NZ	29:ED:201:PEB:HBB2	2.21	0.55
7:ID:36:LYS:NZ	29:ID:202:PEB:HBB2	2.22	0.55
7:LE:75:THR:HB	7:LE:78:ARG:HG3	1.88	0.55
18:ME:236:ASP:HB3	29:SI:202:PEB:C1A	2.34	0.55
18:ME:289:GLU:OE1	5:DI:22:THR:OG1	2.25	0.55
1:XF:106:GLN:OE1	1:XF:124:LEU:HD12	2.07	0.55
7:TF:1:MET:SD	7:TF:104:VAL:HG23	2.47	0.55
7:FG:64:PRO:O	7:FG:67:ILE:N	2.33	0.55
6:IG:15:ALA:O	14:MG:268:ALA:HB2	2.06	0.55
6:KG:23:ASP:O	6:KG:26:SER:OG	2.24	0.55
4:CI:33:ARG:HH12	29:NI:1002:PEB:CAD	2.06	0.55
7:NJ:114:LYS:CG	7:NJ:176:ILE:CA	2.80	0.55
6:kJ:33:ARG:NH2	6:mJ:24:LEU:O	2.38	0.55
29:rJ:201:PEB:O1C	16:xJ:115:PHE:HE1	1.87	0.55
19:zJ:332:LEU:CD2	20:pP:63:PRO:HB2	2.37	0.55
3:BK:217:ASP:O	3:BK:220:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:kL:201:PEB:HMC2	7:tL:79:MET:HB2	1.89	0.55
15:bM:372:ILE:HG12	7:FM:68:SER:OG	2.07	0.55
7:Nm:129:ARG:HD3	28:4P:121:HIS:HB3	1.89	0.55
6:fM:95:TYR:CE1	7:gM:12:SER:OG	2.59	0.55
6:CN:76:GLN:NE2	6:CN:80:ASN:OD1	2.39	0.55
6:CN:106:ASP:HA	6:CN:110:ILE:HB	1.89	0.55
7:FN:21:GLY:HA2	7:FN:24:LEU:HB2	1.88	0.55
6:GN:76:GLN:NE2	6:GN:80:ASN:OD1	2.40	0.55
6:KN:106:ASP:HA	6:KN:110:ILE:HB	1.89	0.55
6:KN:137:ARG:HG3	29:KN:202:PEB:HMD2	1.89	0.55
21:FP:16:GLY:HA2	20:EP:90:ARG:NH2	2.22	0.55
20:EP:56:GLN:O	20:EP:60:GLN:HG3	2.07	0.55
25:YP:477:ARG:HD2	25:YP:478:ARG:O	2.07	0.55
28:bP:220:LYS:NZ	28:bP:222:VAL:HG22	2.22	0.55
20:eP:56:GLN:O	20:eP:60:GLN:HG3	2.07	0.55
20:mP:56:GLN:O	20:mP:60:GLN:HG3	2.07	0.55
21:oP:60:LEU:HB2	21:oP:65:ILE:HD11	1.89	0.55
20:tP:56:GLN:O	20:tP:60:GLN:HG3	2.07	0.55
6:CQ:40:ALA:HB3	6:CQ:97:LEU:HD21	1.89	0.55
6:EQ:136:ASP:OD1	6:EQ:136:ASP:N	2.30	0.55
6:GQ:23:ASP:O	6:GQ:26:SER:OG	2.24	0.55
14:MQ:228:GLN:HB2	14:MQ:294:ARG:HH12	1.72	0.55
6:OR:131:ILE:HG23	6:OR:156:LEU:HD22	1.87	0.55
6:SR:9:VAL:CG2	7:TR:1:MET:HE1	2.37	0.55
2:A1:154:HIS:HB3	29:A1:301:PEB:HBA1	1.89	0.55
5:F1:47:ASN:OD1	5:F1:141:LEU:CD2	2.55	0.55
5:H1:145:THR:HG22	29:H1:1002:PEB:CMA	2.36	0.55
8:e2:70:GLY:HA2	8:e2:95:LEU:HD11	1.89	0.55
6:O2:138:LEU:HA	29:O2:202:PEB:HMD1	1.88	0.55
6:U2:17:ARG:NH2	6:W2:2:LYS:HZ2	2.04	0.55
7:C4:160:SER:O	7:C4:164:GLU:HG3	2.06	0.55
6:D4:136:ASP:N	6:D4:136:ASP:OD1	2.40	0.55
7:B5:106:GLU:OE2	7:B5:171:ARG:NH1	2.39	0.55
13:k6:283:LYS:C	13:k6:284:LEU:HD22	2.33	0.55
5:H7:52:VAL:HG21	5:H7:87:GLU:HG3	1.88	0.55
6:d7:30:ASN:OD1	6:d7:37:ARG:NH2	2.40	0.55
7:F8:44:ILE:HG23	7:F8:51:MET:HE1	1.89	0.55
7:I8:116:THR:HG21	15:bM:403:PRO:CG	2.34	0.55
7:L8:104:VAL:HG21	4:I9:68:GLN:HE22	1.63	0.55
12:E8:162:ASN:ND2	29:kF:203:PEB:O1B	2.40	0.55
3:B9:121:ASN:ND2	26:ZP:52:GLY:N	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J9:66:LEU:O	5:J9:73:ALA:HB3	2.07	0.55
6:W9:43:LYS:NZ	6:W9:143:ASP:O	2.35	0.55
29:DA:201:PEB:HMC2	14:MA:280:PHE:HB2	1.88	0.55
6:EA:106:ASP:HA	6:EA:110:ILE:HB	1.89	0.55
6:KA:76:GLN:NE2	6:KA:80:ASN:OD1	2.40	0.55
6:KA:106:ASP:HA	6:KA:110:ILE:HB	1.89	0.55
15:bB:341:ALA:CB	20:KP:68:PRO:CD	2.84	0.55
6:hB:33:ARG:NE	6:hB:151:GLU:OE2	2.39	0.55
7:BC:73:CYS:CB	7:BC:79:MET:SD	2.88	0.55
7:JC:51:MET:HE1	7:JC:137:GLN:HB3	0.63	0.55
7:LC:116:THR:CG2	18:MC:213:THR:CB	2.82	0.55
7:GD:36:LYS:NZ	29:GD:202:PEB:HBB2	2.21	0.55
6:HD:20:SER:N	6:HD:23:ASP:OD2	2.29	0.55
6:JD:131:ILE:O	6:JD:134:THR:OG1	2.22	0.55
6:AE:52:VAL:HG12	6:AE:86:VAL:HG23	1.88	0.55
7:DE:51:MET:HE1	7:DE:137:GLN:HB3	0.63	0.55
4:GF:145:GLN:NE2	29:JF:1002:PEB:HMC2	2.22	0.55
6:GG:111:ALA:HB1	29:MG:405:PEB:OA	2.07	0.55
7:HG:47:ASN:HD22	29:HG:203:PEB:HMA2	1.70	0.55
7:HG:137:GLN:HE22	29:HG:203:PEB:C1B	2.20	0.55
14:MG:114:PHE:HA	14:MG:117:ARG:HE	1.71	0.55
7:FJ:7:ARG:O	7:FJ:11:ASN:CG	2.50	0.55
6:GJ:118:ARG:HH11	6:IJ:114:ARG:HH11	1.55	0.55
2:AK:49:ALA:HB1	2:AK:62:ARG:HH11	1.71	0.55
3:BK:13:GLN:OE1	3:BK:15:GLN:NE2	2.40	0.55
3:BK:204:ARG:HD3	3:BK:204:ARG:O	2.07	0.55
5:JK:33:GLU:OE2	5:JK:156:LEU:HG	2.06	0.55
5:LK:165:ASP:N	5:LK:165:ASP:OD1	2.40	0.55
7:FL:159:THR:HG22	25:1P:513:GLY:O	2.06	0.55
7:PL:20:GLY:C	7:PL:22:SER:N	2.65	0.55
7:ZL:107:ASP:O	16:xL:39:LEU:O	2.24	0.55
7:fL:115:GLU:HA	7:fL:118:ILE:HB	1.87	0.55
29:vL:201:PEB:O1C	16:xL:137:TYR:CZ	2.59	0.55
16:xL:101:ALA:C	16:xL:105:ARG:HG3	2.29	0.55
7:NM:60:ILE:C	7:NM:62:GLU:H	2.15	0.55
6:UM:142:ARG:HH12	14:MQ:111:ARG:NH1	2.04	0.55
7:VM:82:CYS:HA	7:VM:85:ASP:OD2	2.07	0.55
29:FN:201:PEB:CMC	14:MN:181:TYR:CD1	2.90	0.55
7:LN:91:ARG:NH1	7:LN:95:TYR:OH	2.39	0.55
14:MN:102:LYS:N	14:MN:103:ARG:NH1	2.55	0.55
6:KO:56:GLY:CA	6:KO:83:TYR:CE1	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DP:83:ARG:HH11	25:YP:487:ILE:HA	1.72	0.55
21:QP:65:ILE:HA	27:3P:48:THR:HG21	1.89	0.55
23:WP:53:LYS:HE3	23:WP:57:GLU:OE2	2.06	0.55
21:dP:1:MET:CE	21:dP:103:ILE:HD12	2.36	0.55
21:fP:1:MET:CE	21:fP:103:ILE:HD12	2.36	0.55
21:jP:1:MET:CE	21:jP:103:ILE:HD12	2.36	0.55
21:sP:154:ASP:O	21:sP:158:SER:OG	2.25	0.55
22:xP:117:ASN:HB3	25:1P:230:PRO:HG2	1.88	0.55
24:zP:43:ASP:OD2	24:zP:59:SER:HB3	2.07	0.55
24:zP:77:SER:O	24:zP:78:GLN:HG2	2.07	0.55
6:AQ:40:ALA:HB3	6:AQ:97:LEU:HD21	1.89	0.55
6:KQ:124:THR:HA	6:KQ:127:TYR:HD2	1.72	0.55
7:LQ:133:ILE:HA	29:LQ:202:PEB:CBC	2.37	0.55
6:OR:105:LEU:HD23	6:OR:158:TYR:CD2	2.42	0.55
6:OR:137:ARG:HH22	29:OR:202:PEB:CGB	2.19	0.55
7:PR:57:SER:O	7:PR:61:CYS:SG	2.65	0.55
6:QR:37:ARG:NH1	6:QR:98:VAL:CA	2.67	0.55
2:A1:259:ARG:HG3	2:A1:270:GLU:HG3	1.89	0.54
8:e2:282:SER:O	7:a7:150:LYS:HE3	2.07	0.54
6:O2:131:ILE:CG2	6:O2:160:ILE:HD11	2.29	0.54
6:O2:145:SER:HA	6:IB:67:LYS:CD	2.36	0.54
6:G3:71:GLU:OE2	6:I3:62:LYS:NZ	2.40	0.54
6:F4:90:MET:HA	6:F4:93:VAL:HG22	1.87	0.54
6:H4:92:LEU:HD21	6:H4:108:TRP:HB2	1.89	0.54
6:J4:136:ASP:N	6:J4:136:ASP:OD1	2.40	0.54
6:L4:136:ASP:N	6:L4:136:ASP:OD1	2.40	0.54
7:M4:36:LYS:NZ	29:M4:202:PEB:HBB2	2.22	0.54
3:B7:102:ASN:HB3	5:L7:111:ASN:HB3	1.89	0.54
4:K7:28:ASN:OD1	4:K7:32:GLN:NE2	2.40	0.54
6:O7:30:ASN:OD1	6:O7:37:ARG:NH2	2.40	0.54
7:Y7:156:GLY:CA	12:E8:120:TYR:CD2	2.76	0.54
7:a7:52:VAL:CG2	7:a7:87:GLU:CB	2.75	0.54
6:b7:145:SER:OG	6:b7:146:ALA:N	2.39	0.54
6:f7:145:SER:OG	6:f7:146:ALA:N	2.39	0.54
6:h7:145:SER:OG	6:h7:146:ALA:N	2.39	0.54
5:H9:52:VAL:HG21	5:H9:87:GLU:HG3	1.88	0.54
6:Q9:43:LYS:NZ	6:Q9:143:ASP:O	2.35	0.54
6:AA:5:ILE:HD12	6:AA:27:ILE:CD1	2.24	0.54
6:GA:76:GLN:NE2	6:GA:80:ASN:OD1	2.40	0.54
6:KA:4:VAL:O	6:KA:7:THR:OG1	2.26	0.54
15:bB:379:ARG:CZ	28:bP:43:TYR:CE2	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:XB:62:GLU:OE2	7:XB:129:ARG:HB3	2.07	0.54
6:IB:57:ASP:C	6:IB:59:CYS:N	2.65	0.54
7:JC:73:CYS:CB	7:JC:79:MET:SD	2.88	0.54
18:MC:46:SER:HB3	18:MC:188:PHE:CB	2.33	0.54
6:BD:136:ASP:N	6:BD:136:ASP:OD1	2.40	0.54
7:CD:77:ARG:HH21	7:CD:78:ARG:HG3	1.71	0.54
6:HD:114:ARG:CD	6:JD:118:ARG:HH12	2.20	0.54
6:JD:92:LEU:HD21	6:JD:108:TRP:HB2	1.89	0.54
7:MD:160:SER:O	7:MD:163:SER:OG	2.23	0.54
7:JE:73:CYS:C	7:JE:79:MET:SD	2.87	0.54
18:ME:221:ALA:HB3	18:ME:222:PRO:HD2	1.86	0.54
18:ME:280:VAL:CG1	4:CI:49:GLN:HA	2.37	0.54
4:KF:70:PRO:HD2	9:OO:308:TYR:CE2	2.35	0.54
7:LG:58:GLY:CA	29:LG:203:PEB:C2D	2.85	0.54
13:kH:257:PRO:HG2	13:kH:261:MET:O	2.07	0.54
7:HJ:72:MEN:O	7:HJ:78:ARG:HB3	2.07	0.54
7:tJ:77:ARG:CZ	16:xJ:212:ARG:NH2	2.70	0.54
4:EK:142:LEU:HD12	4:EK:146:VAL:HG12	1.89	0.54
7:gK:7:ARG:HD2	14:MN:96:LYS:HB3	1.86	0.54
7:LL:26:ALA:CA	28:bP:231:ILE:CD1	2.84	0.54
6:QL:44:LEU:O	6:QL:48:HIS:HB3	2.07	0.54
16:wL:146:PRO:CD	16:wL:147:LYS:N	2.68	0.54
16:wL:164:SER:CB	16:xL:36:GLN:NE2	2.69	0.54
15:bM:342:TYR:O	15:bM:346:ILE:O	2.25	0.54
6:UM:142:ARG:NH1	14:MQ:111:ARG:HH22	1.93	0.54
7:BO:7:ARG:NH2	7:BO:103:SER:OG	2.41	0.54
6:IO:140:VAL:HG13	6:IO:145:SER:O	2.07	0.54
23:WP:124:SER:HB2	25:YP:10:PRO:O	2.07	0.54
24:XP:48:GLY:O	24:XP:51:SER:OG	2.26	0.54
20:pP:56:GLN:O	20:pP:60:GLN:HG3	2.07	0.54
25:1P:70:ARG:HD2	25:1P:201:THR:OG1	2.07	0.54
28:4P:220:LYS:NZ	28:4P:222:VAL:HG22	2.22	0.54
6:IQ:159:LEU:O	6:IQ:163:LEU:HB2	2.08	0.54
14:MQ:236:TYR:HE2	29:MQ:402:PEB:CMD	2.20	0.54
7:VR:79:MET:O	7:VR:83:LEU:HG	2.06	0.54
6:WR:142:ARG:CZ	29:WR:202:PEB:HHA1	2.36	0.54
5:H1:39:ASP:OD2	29:H1:1002:PEB:HHC1	2.08	0.54
5:J1:47:ASN:OD1	5:J1:141:LEU:HD21	2.07	0.54
5:J1:165:ASP:N	5:J1:165:ASP:OD1	2.40	0.54
8:e2:108:HIS:HD2	7:P2:84:ARG:NH1	2.04	0.54
7:V2:61:CYS:HB2	29:V2:203:PEB:CAD	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:267:ILE:HD12	10:d4:268:PRO:HD2	1.89	0.54
7:E4:147:THR:OG1	7:E4:148:GLU:OE1	2.24	0.54
6:J5:40:ALA:HB2	6:J5:148:ALA:HB1	1.89	0.54
5:J7:77:ARG:HG3	4:M7:113:ALA:CB	2.37	0.54
7:Y7:157:ASP:HB2	12:E8:120:TYR:OH	2.07	0.54
12:E8:185:ALA:CB	6:bF:67:LYS:CE	2.85	0.54
6:W9:145:SER:OG	6:W9:146:ALA:N	2.39	0.54
6:Z9:145:SER:OG	6:Z9:146:ALA:N	2.39	0.54
6:KA:137:ARG:HG3	29:KA:202:PEB:HMD2	1.89	0.54
14:MA:234:GLU:HG3	14:MA:319:PHE:HB3	1.89	0.54
15:bB:343:PHE:CZ	20:KP:63:PRO:C	2.84	0.54
7:FB:76:ASN:HD22	6:MB:109:GLY:HA2	1.73	0.54
7:cB:62:GLU:OE2	7:cB:129:ARG:HB3	2.07	0.54
7:ID:41:VAL:HG21	7:ID:98:LEU:CD2	2.36	0.54
7:ID:104:VAL:HG23	7:ID:108:ARG:NE	2.22	0.54
7:KD:147:THR:OG1	7:KD:148:GLU:OE1	2.24	0.54
7:DE:73:CYS:C	7:DE:79:MET:SD	2.88	0.54
6:KE:44:LEU:HD11	6:KE:152:PHE:CE2	2.42	0.54
6:CG:159:LEU:O	6:CG:163:LEU:HB2	2.08	0.54
6:KG:159:LEU:O	6:KG:163:LEU:HB2	2.08	0.54
14:MG:98:LEU:HD12	14:MG:98:LEU:N	2.22	0.54
7:FJ:139:VAL:CG2	25:YP:516:SER:HA	2.24	0.54
6:IJ:133:TYR:CD1	6:IJ:133:TYR:C	2.86	0.54
1:XK:208:ARG:HB2	1:XK:211:LYS:HD2	1.88	0.54
1:XK:329:TYR:OH	5:FK:84:ARG:NH2	2.39	0.54
4:CK:67:THR:OG1	4:CK:68:GLN:OE1	2.17	0.54
6:UK:55:ALA:HB2	6:UK:134:THR:CG2	2.38	0.54
7:FL:30:PHE:CD1	7:FL:30:PHE:C	2.86	0.54
6:oL:9:VAL:HG12	7:pL:104:VAL:HG21	1.88	0.54
16:wL:175:GLU:OE1	16:xL:48:MET:HE2	2.06	0.54
17:BM:181:THR:HB	29:BM:301:PEB:HBA1	0.61	0.54
6:hM:36:ALA:HB1	6:hM:147:GLN:CG	2.36	0.54
6:IN:106:ASP:HA	6:IN:110:ILE:HB	1.89	0.54
6:IN:137:ARG:HG3	29:IN:202:PEB:HMD2	1.89	0.54
14:MN:281:ARG:HA	14:MN:284:GLN:HB3	1.89	0.54
7:LO:7:ARG:NH2	7:LO:103:SER:OG	2.41	0.54
9:OO:254:LEU:HD13	9:OO:273:LYS:HD2	1.89	0.54
21:BP:1:MET:CE	21:BP:103:ILE:HD12	2.36	0.54
21:QP:1:MET:CE	21:QP:103:ILE:HD12	2.36	0.54
25:YP:15:GLN:HB3	25:YP:257:GLY:HA3	1.89	0.54
28:4P:228:ILE:HG23	28:4P:231:ILE:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BQ:136:ALA:CB	29:BQ:203:PEB:O2C	2.55	0.54
6:EQ:40:ALA:HB3	6:EQ:97:LEU:HD21	1.89	0.54
6:UR:105:LEU:HD23	6:UR:158:TYR:CD2	2.42	0.54
4:G1:104:THR:OG1	4:I1:17:ARG:NH2	2.39	0.54
5:J1:33:GLU:CD	5:J1:156:LEU:HG	2.31	0.54
5:J1:33:GLU:OE2	5:J1:156:LEU:CD2	2.55	0.54
6:j1:55:ALA:HB2	6:j1:134:THR:CG2	2.38	0.54
8:e2:125:ARG:CD	29:V2:201:PEB:O2C	2.56	0.54
6:O2:105:LEU:HD23	6:O2:158:TYR:CD2	2.42	0.54
6:O2:142:ARG:CZ	6:IB:76:GLN:CG	2.82	0.54
7:R2:57:SER:O	7:R2:61:CYS:SG	2.65	0.54
6:S2:54:GLU:OE1	6:S2:137:ARG:CZ	2.55	0.54
6:S2:105:LEU:HD23	6:S2:158:TYR:CD2	2.42	0.54
6:C3:48:HIS:CD2	6:C3:49:GLU:OE1	2.60	0.54
7:F3:7:ARG:NH2	7:F3:103:SER:OG	2.41	0.54
6:I3:140:VAL:HG13	6:I3:145:SER:O	2.07	0.54
7:N3:47:ASN:OD1	7:N3:149:ARG:NH1	2.41	0.54
6:D4:90:MET:HA	6:D4:93:VAL:HG22	1.87	0.54
7:I5:74:TYR:O	7:I5:78:ARG:HB2	2.07	0.54
13:k6:211:PRO:HB2	13:k6:212:PRO:HD3	1.90	0.54
2:A7:238:ARG:NH2	2:A7:241:GLN:OE1	2.39	0.54
12:E8:186:PRO:HG2	6:bF:57:ASP:CA	2.34	0.54
3:B9:94:ARG:HH12	4:K9:14:ASN:HD21	1.55	0.54
7:V9:150:LYS:HB2	13:kH:61:ARG:HH12	1.64	0.54
6:b9:17:ARG:NH2	6:d9:102:THR:OG1	2.27	0.54
6:AA:106:ASP:HA	6:AA:110:ILE:HB	1.89	0.54
6:CA:4:VAL:O	6:CA:7:THR:OG1	2.26	0.54
6:IA:137:ARG:HG3	29:IA:202:PEB:HMD2	1.89	0.54
16:AB:250:SER:HB3	6:aB:107:GLU:OE1	2.07	0.54
6:GB:159:LEU:HD11	6:GB:163:LEU:CD1	2.38	0.54
7:NB:60:ILE:C	7:NB:62:GLU:H	2.15	0.54
7:CD:173:GLY:O	7:CD:177:SER:OG	2.14	0.54
7:MD:36:LYS:NZ	29:MD:202:PEB:HBB2	2.22	0.54
7:DE:107:ASP:OD1	18:ME:234:GLU:OE2	2.26	0.54
18:ME:64:GLU:O	18:ME:65:LYS:C	2.46	0.54
6:AG:159:LEU:O	6:AG:163:LEU:HB2	2.08	0.54
6:CG:115:GLU:HB2	7:HG:83:LEU:HD13	1.90	0.54
6:EG:40:ALA:HB3	6:EG:97:LEU:HD21	1.89	0.54
6:GG:40:ALA:HB3	6:GG:97:LEU:HD21	1.89	0.54
6:GG:124:THR:HA	6:GG:127:TYR:HD2	1.72	0.54
14:MG:309:CYS:O	14:MG:313:GLU:N	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:cJ:74:GLU:H	6:cJ:78:LYS:HG3	1.73	0.54
1:XK:127:ASP:OD1	1:XK:130:ARG:NH2	2.41	0.54
3:BK:204:ARG:HB3	5:LK:125:SER:HG	1.71	0.54
5:HK:39:ASP:OD2	29:HK:1002:PEB:HH1	2.08	0.54
7:gK:7:ARG:NH1	14:MN:96:LYS:HZ2	2.02	0.54
6:lK:55:ALA:HB2	6:lK:134:THR:CG2	2.38	0.54
7:FL:125:ASN:HD21	7:XL:70:GLY:HA2	1.72	0.54
7:PL:30:PHE:CD1	7:PL:30:PHE:C	2.86	0.54
6:UL:63:TYR:HB3	6:UL:66:LEU:HD11	1.88	0.54
6:aL:10:SER:OG	16:wL:194:VAL:HG23	2.08	0.54
6:mL:108:TRP:HH2	7:nL:10:VAL:HA	1.73	0.54
15:bM:379:ARG:CZ	28:4P:43:TYR:CE2	2.75	0.54
16:AM:242:ARG:NH2	16:AM:257:ASN:OD1	2.40	0.54
7:XM:62:GLU:OE2	7:XM:129:ARG:HB3	2.07	0.54
7:DN:75:THR:OG1	7:DN:76:ASN:N	2.41	0.54
7:MO:47:ASN:OD1	7:MO:149:ARG:NH1	2.41	0.54
7:NO:47:ASN:OD1	7:NO:149:ARG:NH1	2.41	0.54
20:GP:56:GLN:O	20:GP:60:GLN:HG3	2.07	0.54
21:HP:18:TYR:CE2	25:YP:157:ARG:HA	2.42	0.54
21:SP:154:ASP:O	21:SP:158:SER:OG	2.25	0.54
24:XP:43:ASP:OD2	24:XP:59:SER:HB3	2.08	0.54
21:nP:110:ASN:HD21	24:zP:115:ILE:H	1.55	0.54
25:1P:173:VAL:O	25:1P:252:ILE:HD12	2.07	0.54
14:MQ:171:ARG:NH2	14:MQ:179:ASP:OD2	2.41	0.54
6:SR:54:GLU:OE1	6:SR:137:ARG:NH1	2.41	0.54
6:SR:105:LEU:HD23	6:SR:158:TYR:CD2	2.42	0.54
3:B1:91:ALA:HA	3:B1:94:ARG:HB2	1.90	0.54
3:B1:186:ILE:HD13	5:L1:119:ALA:HA	1.90	0.54
4:E1:49:GLN:HG2	6:Q7:53:LYS:CG	2.36	0.54
4:I1:136:ILE:O	4:I1:140:HIS:CD2	2.59	0.54
6:Q1:55:ALA:HB2	6:Q1:134:THR:CG2	2.38	0.54
8:e2:167:ARG:NH2	8:e2:174:GLU:OE2	2.41	0.54
8:e2:274:THR:O	7:T2:118:ILE:O	2.26	0.54
6:U2:91:ARG:HG2	6:U2:95:TYR:CE2	2.43	0.54
6:W2:142:ARG:NE	29:W2:202:PEB:HH1	2.22	0.54
7:D3:7:ARG:NH2	7:D3:103:SER:OG	2.41	0.54
7:L3:7:ARG:NH2	7:L3:103:SER:OG	2.41	0.54
10:d4:67:SER:O	10:d4:71:ARG:HG3	2.07	0.54
6:H4:136:ASP:N	6:H4:136:ASP:OD1	2.40	0.54
7:G5:150:LYS:O	7:k9:147:THR:HB	2.07	0.54
7:I5:21:GLY:O	7:I5:23:ASP:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K7:49:GLN:HG2	3:BF:228:MET:HG3	0.57	0.54
4:K7:49:GLN:CG	3:BF:228:MET:HG2	2.22	0.54
7:G8:44:ILE:HG23	7:G8:51:MET:HE1	1.90	0.54
7:L8:76:ASN:ND2	6:OR:75:ASN:CB	2.69	0.54
29:L8:201:PEB:HBC2	13:kH:195:ARG:HH22	1.72	0.54
11:D8:200:SER:OG	11:D8:202:ASP:OD1	2.25	0.54
12:E8:72:MET:CE	5:HF:145:THR:HG22	2.36	0.54
5:J9:49:SER:O	5:J9:53:THR:OG1	2.24	0.54
6:U9:43:LYS:NZ	6:U9:143:ASP:O	2.35	0.54
6:l9:43:LYS:NZ	6:l9:143:ASP:O	2.35	0.54
6:CA:137:ARG:HG3	29:CA:202:PEB:HMD2	1.89	0.54
6:EB:54:GLU:HG2	6:EB:133:TYR:CE2	2.28	0.54
6:QB:54:GLU:OE1	29:QB:204:PEB:CAC	2.47	0.54
7:LC:120:LEU:HD21	18:MC:219:SER:OG	2.08	0.54
18:MC:269:ASN:HB3	7:PF:146:ALA:O	2.07	0.54
7:CD:36:LYS:NZ	29:CD:202:PEB:HBB2	2.21	0.54
7:ED:160:SER:O	7:ED:163:SER:OG	2.22	0.54
6:FD:81:LYS:NZ	6:FD:85:ASP:CG	2.66	0.54
7:KD:74:TYR:HB3	7:KD:78:ARG:NH2	2.21	0.54
7:MD:50:CYS:HB3	29:MD:203:PEB:HMA1	1.88	0.54
7:LE:11:ASN:O	7:LE:15:LYS:NZ	2.41	0.54
7:LE:77:ARG:CZ	18:ME:219:SER:O	2.55	0.54
18:ME:143:PRO:HB2	18:ME:149:VAL:HG22	1.88	0.54
18:ME:312:LEU:CD2	7:vL:68:SER:HB2	2.16	0.54
2:AF:186:PRO:HB2	2:AF:192:GLU:HG3	1.90	0.54
6:jF:87:ASP:OD1	7:kF:18:TYR:OH	2.22	0.54
6:EG:159:LEU:O	6:EG:163:LEU:HB2	2.08	0.54
5:FI:41:VAL:HG21	5:FI:98:ILE:CG2	2.38	0.54
6:UI:48:HIS:HA	6:UI:51:VAL:CG2	2.35	0.54
7:HJ:133:ILE:O	7:HJ:134:MET:C	2.50	0.54
29:IJ:201:PEB:HBC2	16:xJ:255:GLN:NE2	2.22	0.54
2:AK:259:ARG:HG3	2:AK:270:GLU:HG3	1.89	0.54
5:LK:33:GLU:OE1	5:LK:156:LEU:HG	2.07	0.54
6:WK:53:LYS:H	6:WK:53:LYS:CD	2.19	0.54
6:hK:55:ALA:HB2	6:hK:134:THR:CG2	2.38	0.54
6:gL:33:ARG:HE	6:iL:25:GLU:HG2	1.73	0.54
16:xL:112:ARG:NH1	16:xL:120:ASP:OD2	2.41	0.54
15:bM:240:MET:HB3	7:JM:111:ASN:HD21	1.71	0.54
7:FM:76:ASN:HD22	6:MM:109:GLY:HA2	1.73	0.54
6:AN:76:GLN:NE2	6:AN:80:ASN:OD1	2.40	0.54
7:DN:77:ARG:NE	6:KN:107:GLU:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EN:106:ASP:HA	6:EN:110:ILE:HB	1.89	0.54
6:KN:38:LEU:CB	7:LN:24:LEU:HD23	2.25	0.54
7:FO:129:ARG:HH12	7:MO:149:ARG:HH12	1.55	0.54
20:CP:50:ILE:HA	20:CP:136:VAL:HG11	1.87	0.54
21:FP:1:MET:HE1	20:EP:8:ILE:HG22	1.88	0.54
21:IP:3:ASP:OD1	20:JP:5:THR:OG1	2.20	0.54
25:YP:566:ARG:NH2	25:YP:627:ASP:OD1	2.40	0.54
25:YP:709:GLU:HB3	25:YP:836:ARG:HG2	1.89	0.54
20:gP:10:ASN:HA	25:1P:507:LYS:HD2	1.89	0.54
21:nP:28:ARG:HH12	22:xP:34:GLU:HG2	1.72	0.54
25:1P:15:GLN:HB3	25:1P:257:GLY:HA3	1.89	0.54
25:1P:477:ARG:HD2	25:1P:478:ARG:O	2.07	0.54
25:1P:757:SER:OG	25:1P:760:GLU:HG3	2.08	0.54
6:CQ:31:ILE:O	6:CQ:34:SER:OG	2.19	0.54
6:CQ:159:LEU:O	6:CQ:163:LEU:HB2	2.08	0.54
6:GQ:124:THR:HA	6:GQ:127:TYR:HD2	1.72	0.54
6:IQ:44:LEU:HD12	7:JQ:18:TYR:HE2	1.72	0.54
6:KQ:159:LEU:O	6:KQ:163:LEU:HB2	2.08	0.54
7:LQ:113:LEU:HB2	14:MQ:236:TYR:CE2	2.40	0.54
6:MR:142:ARG:HH21	29:MR:202:PEB:C2B	2.18	0.54
4:E1:145:GLN:NE2	29:L1:1002:PEB:CMC	2.70	0.54
6:f1:55:ALA:HB2	6:f1:134:THR:CG2	2.38	0.54
8:e2:57:PHE:HD2	7:T2:84:ARG:HH11	1.56	0.54
6:U2:105:LEU:HD23	6:U2:158:TYR:CD2	2.42	0.54
9:O3:259:THR:HA	9:O3:262:THR:HG22	1.89	0.54
7:I4:36:LYS:NZ	29:I4:202:PEB:HBB2	2.21	0.54
7:I5:72:MEN:HD2	7:I5:78:ARG:HE	1.55	0.54
7:A5:160:SER:O	7:A5:164:GLU:HB2	2.07	0.54
12:E5:72:MET:CG	5:HI:151:GLY:O	2.55	0.54
13:k6:46:ASP:OD1	13:k6:47:LYS:N	2.37	0.54
3:B7:228:MET:HB3	20:rP:56:GLN:HG3	1.90	0.54
4:E7:28:ASN:OD1	4:E7:32:GLN:NE2	2.40	0.54
4:G7:28:ASN:OD1	4:G7:32:GLN:NE2	2.40	0.54
6:Q7:30:ASN:OD1	6:Q7:37:ARG:NH2	2.40	0.54
6:S7:43:LYS:NZ	6:S7:143:ASP:O	2.35	0.54
7:I8:74:TYR:O	7:I8:78:ARG:HB2	2.07	0.54
12:E8:162:ASN:CA	29:kF:203:PEB:CGB	2.65	0.54
5:F9:5:PHE:HD1	5:F9:27:LEU:HD22	1.73	0.54
7:LA:91:ARG:NH1	7:LA:95:TYR:OH	2.39	0.54
14:MA:281:ARG:HA	14:MA:284:GLN:HB3	1.90	0.54
15:bB:342:TYR:O	15:bB:346:ILE:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FC:11:ASN:O	7:FC:15:LYS:NZ	2.41	0.54
7:LC:10:VAL:HG21	18:MC:258:THR:CG2	2.38	0.54
7:LC:11:ASN:O	7:LC:15:LYS:NZ	2.41	0.54
6:HD:136:ASP:N	6:HD:136:ASP:OD1	2.40	0.54
6:JD:136:ASP:N	6:JD:136:ASP:OD1	2.40	0.54
6:AE:31:ILE:HG22	7:BE:31:ILE:HG23	1.90	0.54
7:HE:11:ASN:O	7:HE:15:LYS:NZ	2.41	0.54
7:JE:11:ASN:O	7:JE:15:LYS:NZ	2.41	0.54
1:XF:116:THR:OG1	1:XF:193:ASP:O	2.26	0.54
3:BF:217:ASP:CG	27:3P:59:LYS:CB	2.74	0.54
5:JF:41:VAL:HG21	5:JF:98:ILE:CG2	2.38	0.54
7:kF:2:LEU:HG	7:kF:6:SER:CB	2.37	0.54
6:AG:124:THR:HA	6:AG:127:TYR:HD2	1.72	0.54
6:IG:159:LEU:O	6:IG:163:LEU:HB2	2.08	0.54
7:LG:140:ALA:HB2	29:LG:203:PEB:HAB2	1.90	0.54
14:MG:171:ARG:NH2	14:MG:179:ASP:OD2	2.41	0.54
3:BI:229:GLY:N	3:BI:230:PRO:HD3	2.23	0.54
5:DI:41:VAL:HG21	5:DI:98:ILE:HG22	1.87	0.54
6:QJ:75:ASN:N	6:QJ:78:LYS:HD2	2.23	0.54
7:ZJ:125:ASN:N	7:ZJ:125:ASN:OD1	2.41	0.54
6:mJ:108:TRP:HH2	7:nJ:10:VAL:HA	1.73	0.54
16:wJ:102:ALA:CA	16:wJ:105:ARG:HG3	2.33	0.54
3:BK:200:ALA:CA	20:IP:66:VAL:O	2.56	0.54
4:GK:5:ILE:HD12	5:HK:3:ASP:OD2	2.06	0.54
4:IK:136:ILE:O	4:IK:140:HIS:CD2	2.59	0.54
4:IK:137:LYS:O	4:IK:140:HIS:CD2	2.59	0.54
6:UK:159:LEU:HD12	6:UK:159:LEU:O	2.07	0.54
7:kK:89:ILE:HD11	7:kK:134:MET:HE1	1.88	0.54
6:kL:28:GLN:HB2	6:mL:33:ARG:CZ	2.38	0.54
29:qL:201:PEB:HAC1	7:vL:79:MET:HG2	1.89	0.54
7:cM:62:GLU:OE2	7:cM:129:ARG:HB3	2.07	0.54
7:mM:62:GLU:OE2	7:mM:129:ARG:HB3	2.07	0.54
7:FN:108:ARG:NH1	14:MN:188:MET:HG3	2.21	0.54
6:GN:4:VAL:O	6:GN:7:THR:OG1	2.26	0.54
6:GN:106:ASP:HA	6:GN:110:ILE:HB	1.89	0.54
6:IN:4:VAL:O	6:IN:7:THR:OG1	2.26	0.54
9:OO:246:ASP:N	9:OO:246:ASP:OD1	2.41	0.54
20:CP:68:PRO:HA	20:CP:73:TYR:CE1	2.43	0.54
21:SP:97:LEU:CD1	20:TP:18:LEU:HD22	2.37	0.54
20:TP:76:GLU:OE2	27:3P:61:ARG:HB3	2.08	0.54
25:YP:234:ASP:OD1	25:YP:250:PRO:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:bP:40:ARG:NH1	28:bP:41:THR:HG22	2.02	0.54
21:nP:154:ASP:O	21:nP:158:SER:OG	2.25	0.54
7:FQ:58:GLY:N	29:FQ:203:PEB:CMD	2.62	0.54
6:IQ:23:ASP:O	6:IQ:26:SER:OG	2.24	0.54
14:MQ:191:VAL:HG13	14:MQ:193:HIS:H	1.71	0.54
8:eR:85:PRO:CA	7:NR:107:ASP:HB2	2.38	0.54
6:MR:37:ARG:NH1	6:OR:25:GLU:HG3	2.22	0.54
6:WR:91:ARG:HG2	6:WR:95:TYR:CE2	2.43	0.54
1:X1:332:ASN:HD21	3:B1:31:ILE:HD11	1.71	0.54
4:C1:12:ALA:C	4:C1:14:ASN:N	2.61	0.54
4:C1:113:ALA:O	5:F1:77:ARG:HA	2.08	0.54
5:D1:165:ASP:N	5:D1:165:ASP:OD1	2.40	0.54
5:L1:165:ASP:N	5:L1:165:ASP:OD1	2.40	0.54
6:b1:55:ALA:HB2	6:b1:134:THR:CG2	2.38	0.54
6:f1:28:GLN:HG2	6:h1:33:ARG:CZ	2.13	0.54
8:e2:153:GLN:HE22	7:X2:108:ARG:CZ	1.88	0.54
6:O2:50:ALA:O	6:O2:54:GLU:HG3	2.08	0.54
6:Q2:91:ARG:HG2	6:Q2:95:TYR:CE2	2.43	0.54
6:B4:113:ALA:O	6:B4:116:VAL:HG22	2.08	0.54
6:D4:92:LEU:HD21	6:D4:108:TRP:HB2	1.89	0.54
7:I5:74:TYR:CE2	7:JB:111:ASN:OD1	2.60	0.54
7:K5:108:ARG:CD	27:aP:276:THR:CG2	2.85	0.54
5:F7:165:ASP:OD1	12:E8:38:LEU:HD12	2.07	0.54
7:H8:91:ARG:NH1	12:E8:62:GLU:OE1	2.36	0.54
7:I8:7:ARG:HH22	28:4P:88:LEU:HD21	1.73	0.54
6:J8:40:ALA:HB2	6:J8:148:ALA:HB1	1.89	0.54
7:L8:125:ASN:ND2	6:UM:68:ASN:OD1	2.41	0.54
4:M9:28:ASN:OD1	4:M9:32:GLN:NE2	2.40	0.54
7:DA:75:THR:OG1	7:DA:76:ASN:N	2.41	0.54
15:bB:343:PHE:CE2	20:KP:64:ASP:HA	2.42	0.54
6:fB:95:TYR:CE1	7:gB:12:SER:OG	2.59	0.54
6:KC:44:LEU:HD11	6:KC:152:PHE:CE2	2.42	0.54
6:BD:78:LYS:HA	6:BD:81:LYS:CD	2.34	0.54
29:GD:202:PEB:HBD1	6:HD:33:ARG:NE	2.22	0.54
6:HD:115:GLU:O	6:HD:119:THR:HG23	2.06	0.54
6:LD:115:GLU:HA	6:LD:118:ARG:NE	2.18	0.54
18:ME:150:SER:O	18:ME:151:GLU:C	2.49	0.54
18:ME:312:LEU:CD1	7:vL:69:PRO:CD	2.86	0.54
3:BF:169:GLN:HG3	5:LF:78:ARG:HH11	1.73	0.54
4:KF:47:SER:OG	4:KF:50:ARG:NH2	2.39	0.54
6:fF:9:VAL:HG21	7:gF:1:MET:CE	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EG:124:THR:HA	6:EG:127:TYR:HD2	1.72	0.54
13:kH:46:ASP:OD1	13:kH:47:LYS:N	2.37	0.54
1:XI:94:TYR:CE1	7:TI:84:ARG:HD3	2.43	0.54
7:TI:1:MET:SD	7:TI:104:VAL:HG23	2.47	0.54
6:II:52:VAL:HG13	6:II:86:VAL:CG1	2.38	0.54
7:PJ:20:GLY:C	7:PJ:22:SER:N	2.65	0.54
6:oJ:9:VAL:HG12	7:pJ:104:VAL:HG21	1.88	0.54
31:CK:1001:CYC:O1D	5:FK:57:ARG:NE	2.41	0.54
5:LK:33:GLU:OE1	5:LK:156:LEU:CG	2.56	0.54
6:QK:55:ALA:HB2	6:QK:134:THR:CG2	2.38	0.54
7:IL:16:ALA:HB2	7:tL:69:PRO:CG	2.33	0.54
6:oL:1:MET:HE2	7:pL:10:VAL:HG23	1.89	0.54
19:zL:332:LEU:CD2	20:NP:63:PRO:CB	2.85	0.54
6:GM:137:ARG:HH21	6:GM:137:ARG:CG	2.21	0.54
6:GM:159:LEU:HD11	6:GM:163:LEU:CD1	2.38	0.54
7:DO:7:ARG:NH2	7:DO:103:SER:OG	2.41	0.54
7:FO:1:MET:HE1	9:OO:140:ALA:HA	1.88	0.54
21:DP:154:ASP:O	21:DP:158:SER:OG	2.25	0.54
20:RP:56:GLN:O	20:RP:60:GLN:HG3	2.07	0.54
27:aP:38:TYR:CE2	21:uP:6:THR:HG23	2.42	0.54
20:eP:21:GLY:O	20:eP:25:ARG:HG2	2.08	0.54
21:fP:154:ASP:O	21:fP:158:SER:OG	2.25	0.54
20:iP:21:GLY:O	20:iP:25:ARG:HG2	2.08	0.54
21:qP:62:TYR:OH	31:xP:1001:CYC:HAD2	2.08	0.54
21:qP:72:MET:HG3	21:qP:72:MET:O	2.07	0.54
20:rP:21:GLY:O	20:rP:25:ARG:HG2	2.08	0.54
20:tP:68:PRO:HA	20:tP:73:TYR:CE1	2.43	0.54
21:uP:97:LEU:CD1	20:vP:18:LEU:HD22	2.38	0.54
25:1P:566:ARG:NH2	25:1P:627:ASP:OD1	2.40	0.54
6:AQ:124:THR:HA	6:AQ:127:TYR:HD2	1.72	0.54
7:BQ:133:ILE:HG23	29:BQ:203:PEB:HBC2	1.89	0.54
6:CQ:2:LYS:NZ	14:MQ:139:GLY:N	2.56	0.54
6:GQ:159:LEU:O	6:GQ:163:LEU:HB2	2.07	0.54
6:KQ:40:ALA:HB3	6:KQ:97:LEU:HD21	1.89	0.54
29:eR:401:PEB:C4A	7:PR:82:CYS:HB2	2.37	0.54
7:RR:84:ARG:O	7:RR:87:GLU:N	2.37	0.54
6:SR:85:ASP:O	29:SR:201:PEB:HMD1	2.08	0.54
6:UR:140:VAL:N	6:UR:141:PRO:HD2	2.22	0.54
10:d4:54:VAL:HB	29:M4:201:PEB:O2C	2.07	0.54
10:d4:335:LEU:CD2	10:dD:331:GLN:OE1	2.56	0.54
7:G4:106:GLU:OE2	7:G4:106:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J4:20:SER:N	6:J4:23:ASP:OD2	2.29	0.54
6:J4:81:LYS:NZ	6:J4:85:ASP:CG	2.66	0.54
7:K4:12:SER:HB2	7:K4:17:ALA:HB3	1.89	0.54
7:G5:106:GLU:OE2	7:G5:171:ARG:NH1	2.39	0.54
3:B7:224:MET:O	3:B7:228:MET:HE3	2.08	0.54
4:M7:28:ASN:OD1	4:M7:32:GLN:NE2	2.40	0.54
6:b7:30:ASN:OD1	6:b7:37:ARG:NH2	2.40	0.54
7:I8:28:LYS:CB	19:zJ:290:LEU:O	2.56	0.54
6:J8:34:SER:OG	6:J8:37:ARG:NH1	2.40	0.54
3:B9:170:ARG:CA	26:ZP:88:THR:HG21	2.23	0.54
5:N9:102:SER:CB	26:ZP:96:VAL:O	2.56	0.54
7:c9:122:VAL:HG13	7:c9:123:PRO:HD2	1.90	0.54
6:l9:145:SER:OG	6:l9:146:ALA:N	2.39	0.54
6:CA:106:ASP:HA	6:CA:110:ILE:HB	1.89	0.54
7:DA:80:ALA:HB2	6:KA:112:GLY:O	2.07	0.54
6:IA:122:LEU:HD22	29:IA:201:PEB:HNA	1.73	0.54
15:bB:319:VAL:CG2	20:KP:79:ALA:C	2.80	0.54
6:GB:159:LEU:CD1	6:GB:163:LEU:HD12	2.37	0.54
6:MB:34:SER:HA	6:MB:37:ARG:HG2	1.90	0.54
6:UB:34:SER:HA	6:UB:37:ARG:HG2	1.90	0.54
7:mB:62:GLU:OE2	7:mB:129:ARG:HB3	2.07	0.54
7:JC:11:ASN:O	7:JC:15:LYS:NZ	2.41	0.54
10:dD:267:ILE:HD12	10:dD:268:PRO:HD2	1.89	0.54
6:DD:81:LYS:NZ	6:DD:85:ASP:CG	2.66	0.54
6:DD:92:LEU:HD21	6:DD:108:TRP:HB2	1.89	0.54
6:DD:113:ALA:O	6:DD:116:VAL:HG22	2.08	0.54
7:ID:36:LYS:HZ1	29:ID:202:PEB:HBB2	1.72	0.54
3:BF:210:GLU:C	27:3P:71:VAL:HG23	2.32	0.54
4:GF:104:THR:CG2	4:GF:107:MET:HG2	2.30	0.54
5:LF:41:VAL:HG21	5:LF:98:ILE:CG2	2.38	0.54
6:jF:158:TYR:OH	6:lF:17:ARG:NH2	2.40	0.54
6:lF:52:VAL:HG13	6:lF:86:VAL:CG1	2.38	0.54
6:CG:109:GLY:O	7:HG:76:ASN:ND2	2.40	0.54
7:DG:154:ALA:O	29:DG:202:PEB:NA	2.32	0.54
14:MG:191:VAL:HG13	14:MG:193:HIS:H	1.71	0.54
13:kH:17:TRP:CZ3	13:kH:134:ILE:HD11	2.40	0.54
3:BI:204:ARG:CD	31:PP:1001:CYC:O1D	2.55	0.54
3:BI:210:GLU:CA	27:aP:71:VAL:CG2	2.85	0.54
6:gJ:158:TYR:OH	6:iJ:17:ARG:NH1	2.35	0.54
6:kJ:28:GLN:HB2	6:mJ:33:ARG:CZ	2.38	0.54
7:lJ:76:ASN:ND2	6:oJ:109:GLY:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mJ:90:MET:HB2	7:nJ:18:TYR:OH	2.07	0.54
7:rJ:125:ASN:N	7:rJ:125:ASN:OD1	2.41	0.54
1:XK:50:GLY:HA2	5:DK:114:ARG:NH1	2.23	0.54
5:FK:154:SER:C	5:FK:156:LEU:H	2.13	0.54
4:GK:65:TYR:CD1	4:GK:65:TYR:C	2.86	0.54
6:OK:55:ALA:HB2	6:OK:134:THR:CG2	2.38	0.54
6:UL:71:GLU:H	6:UL:74:GLU:HG3	1.73	0.54
19:zL:320:PHE:CD2	20:NP:79:ALA:O	2.56	0.54
6:GM:34:SER:HA	6:GM:37:ARG:HG2	1.90	0.54
6:dM:34:SER:HA	6:dM:37:ARG:HG2	1.90	0.54
6:jM:34:SER:HA	6:jM:37:ARG:HG2	1.90	0.54
6:KN:91:ARG:NH1	7:LN:16:ALA:HA	2.23	0.54
9:OO:125:ARG:NH1	9:OO:181:ASP:OD1	2.40	0.54
20:CP:21:GLY:O	20:CP:25:ARG:HG2	2.08	0.54
20:GP:16:ARG:O	23:WP:100:TYR:OH	2.26	0.54
20:NP:68:PRO:HA	20:NP:73:TYR:CE1	2.43	0.54
20:PP:21:GLY:O	20:PP:25:ARG:HG2	2.08	0.54
20:cP:21:GLY:O	20:cP:25:ARG:HG2	2.08	0.54
20:cP:68:PRO:HA	20:cP:73:TYR:CE1	2.43	0.54
20:gP:21:GLY:O	20:gP:25:ARG:HG2	2.08	0.54
21:hP:1:MET:CE	21:hP:103:ILE:HD12	2.36	0.54
21:oP:154:ASP:O	21:oP:158:SER:OG	2.25	0.54
21:qP:1:MET:CE	21:qP:103:ILE:HD12	2.36	0.54
20:vP:68:PRO:HA	20:vP:73:TYR:CE1	2.43	0.54
24:zP:111:MET:HE1	25:1P:383:SER:HB2	1.88	0.54
6:CQ:124:THR:HA	6:CQ:127:TYR:HD2	1.72	0.54
7:LQ:133:ILE:CG1	29:LQ:202:PEB:HBC2	2.21	0.54
8:eR:87:MET:HB2	8:eR:91:GLU:HG3	1.89	0.54
7:NR:89:ILE:O	7:NR:93:VAL:HG22	2.08	0.54
7:TR:57:SER:O	7:TR:61:CYS:SG	2.65	0.54
7:i1:129:ARG:NH1	7:i1:132[A]:SER:OG	2.41	0.54
7:N2:89:ILE:O	7:N2:93:VAL:HG22	2.08	0.54
6:Q2:50:ALA:O	6:Q2:54:GLU:HG3	2.08	0.54
6:S2:9:VAL:HG21	7:T2:1:MET:HE1	1.90	0.54
6:S2:54:GLU:OE1	6:S2:137:ARG:NH1	2.41	0.54
6:U2:37:ARG:HG3	6:U2:151:GLU:OE2	2.08	0.54
7:H3:7:ARG:NH2	7:H3:103:SER:OG	2.41	0.54
7:M3:47:ASN:OD1	7:M3:149:ARG:NH1	2.41	0.54
9:O3:246:ASP:N	9:O3:246:ASP:OD1	2.41	0.54
6:D4:118:ARG:HH11	6:F4:114:ARG:HD3	1.72	0.54
7:E4:135:LYS:HZ3	7:E4:169:PHE:HB2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E4:160:SER:O	7:E4:164:GLU:HG3	2.07	0.54
6:F4:9:VAL:HB	7:G4:95:TYR:CD1	2.43	0.54
6:J5:34:SER:OG	6:J5:37:ARG:NH1	2.40	0.54
7:L5:106:GLU:OE2	7:L5:171:ARG:NH1	2.39	0.54
3:B7:209:GLN:HB3	27:3P:55:TYR:HB2	1.90	0.54
4:M7:79:ILE:HD13	20:JP:41:GLN:HE22	1.71	0.54
7:k7:150:LYS:CE	7:G8:149:ARG:NE	2.68	0.54
7:K8:1:MET:HE1	7:K8:95:TYR:CZ	2.40	0.54
7:L8:70:GLY:O	6:WM:61:ALA:HB2	2.08	0.54
4:K9:57:GLN:NE2	5:JI:145:THR:C	2.66	0.54
6:S9:137:ARG:NH1	13:kH:118:ARG:HB2	2.22	0.54
7:HA:91:ARG:NH1	7:HA:95:TYR:OH	2.38	0.54
6:GB:137:ARG:HH21	6:GB:137:ARG:CG	2.21	0.54
10:dD:67:SER:HG	10:dD:69:GLU:CD	2.15	0.54
7:CD:12:SER:HB2	7:CD:17:ALA:HB3	1.89	0.54
6:FD:43:LYS:HD3	6:FD:144:MET:HB3	1.89	0.54
6:FD:113:ALA:O	6:FD:116:VAL:HG22	2.08	0.54
7:GD:37:ARG:NH2	7:GD:100:GLY:HA2	2.23	0.54
7:BE:11:ASN:O	7:BE:15:LYS:NZ	2.41	0.54
18:ME:304:TRP:CE3	18:ME:304:TRP:C	2.86	0.54
4:EF:120:ARG:HD2	4:IF:116:GLU:OE2	1.96	0.54
6:OF:6:THR:HA	7:PF:1:MET:HE3	1.90	0.54
7:FG:62:GLU:OE1	7:FG:62:GLU:N	2.34	0.54
7:HG:21:GLY:O	7:HG:25:GLN:NE2	2.41	0.54
6:KG:40:ALA:HB3	6:KG:97:LEU:HD21	1.89	0.54
7:LG:58:GLY:O	29:LG:203:PEB:CBD	2.55	0.54
3:BI:204:ARG:NH1	21:SP:57:ALA:CB	2.66	0.54
7:kI:2:LEU:HG	7:kI:6:SER:CB	2.37	0.54
7:PJ:5:PHE:CD2	7:PJ:27:LEU:HD22	2.43	0.54
29:IJ:201:PEB:CB	16:xJ:255:GLN:NE2	2.69	0.54
6:oJ:1:MET:HE2	7:pJ:10:VAL:HG23	1.89	0.54
29:tJ:201:PEB:C4D	16:xJ:220:TYR:CD2	2.90	0.54
16:wJ:183:LYS:HE3	16:xJ:40:VAL:HG13	1.89	0.54
19:zJ:79:ARG:NH1	19:zJ:121:PHE:O	2.41	0.54
3:BK:205:ARG:NE	20:IP:52:LYS:NZ	2.56	0.54
4:GK:5:ILE:HG12	4:GK:27:VAL:HG23	1.90	0.54
4:KK:5:ILE:HG12	4:KK:27:VAL:HG23	1.90	0.54
5:NK:5:PHE:HD1	5:NK:27:LEU:HD23	1.69	0.54
6:AL:138:LEU:O	6:AL:138:LEU:HD23	2.08	0.54
7:HL:25:GLN:O	7:HL:26:ALA:C	2.49	0.54
7:HL:133:ILE:O	7:HL:134:MET:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UL:63:TYR:HB3	6:UL:66:LEU:CD1	2.38	0.54
6:iL:68:ASN:O	6:iL:70:GLY:N	2.39	0.54
7:lL:76:ASN:ND2	6:oL:109:GLY:O	2.41	0.54
16:wL:112:ARG:NH1	16:wL:120:ASP:OD2	2.41	0.54
19:zL:79:ARG:NH1	19:zL:121:PHE:O	2.41	0.54
19:zL:332:LEU:CB	20:NP:67:SER:OG	2.53	0.54
7:HM:62:GLU:OE2	7:HM:129:ARG:HB3	2.07	0.54
7:LM:62:GLU:OE2	7:LM:129:ARG:HB3	2.07	0.54
7:NM:15:LYS:HZ2	21:oP:131:GLN:CD	2.08	0.54
6:YM:34:SER:HA	6:YM:37:ARG:HG2	1.90	0.54
7:JN:37:ARG:NH2	7:JN:164:GLU:OE1	2.38	0.54
6:KN:122:LEU:HD22	29:KN:201:PEB:HNA	1.73	0.54
7:HO:7:ARG:NH2	7:HO:103:SER:OG	2.41	0.54
20:AP:68:PRO:HA	20:AP:73:TYR:CE1	2.43	0.54
20:EP:14:GLU:N	25:YP:509:PHE:HZ	2.05	0.54
20:JP:21:GLY:O	20:JP:25:ARG:HG2	2.08	0.54
20:IP:21:GLY:O	20:IP:25:ARG:HG2	2.08	0.54
20:IP:68:PRO:HA	20:IP:73:TYR:CE1	2.43	0.54
20:mP:68:PRO:HA	20:mP:73:TYR:CE1	2.43	0.54
21:oP:63:SER:O	21:oP:67:ARG:NH2	2.41	0.54
20:pP:21:GLY:O	20:pP:25:ARG:HG2	2.08	0.54
20:rP:155:TYR:CE1	26:2P:138:LEU:HD11	2.42	0.54
27:3P:266:VAL:O	27:3P:266:VAL:HG13	2.08	0.54
7:DQ:54:ASP:OD2	29:DQ:203:PEB:CBA	2.55	0.54
6:IQ:124:THR:HA	6:IQ:127:TYR:HD2	1.72	0.54
7:LQ:21:GLY:O	7:LQ:25:GLN:NE2	2.41	0.54
7:TR:65:GLY:O	7:TR:68:SER:OG	2.26	0.54
6:UR:53:LYS:HD3	6:UR:53:LYS:C	2.33	0.54
6:UR:91:ARG:HG2	6:UR:95:TYR:CE2	2.43	0.54
1:X1:208:ARG:HB2	1:X1:211:LYS:HD2	1.88	0.54
4:G1:65:TYR:CD1	4:G1:65:TYR:C	2.86	0.54
6:O1:55:ALA:HB2	6:O1:134:THR:CG2	2.38	0.54
8:e2:87:MET:HB2	8:e2:91:GLU:HG3	1.89	0.54
6:O2:75:ASN:HB3	7:L5:76:ASN:ND2	2.22	0.54
7:B3:7:ARG:NH2	7:B3:103:SER:OG	2.41	0.54
7:L3:75:THR:OG1	7:L3:76:ASN:N	2.41	0.54
7:G4:65:GLY:O	7:G4:68:SER:OG	2.15	0.54
7:G4:75:THR:HG22	6:J4:108:TRP:O	2.07	0.54
6:H4:81:LYS:NZ	6:H4:85:ASP:CG	2.66	0.54
7:I4:12:SER:HB2	7:I4:17:ALA:HB3	1.89	0.54
11:D5:200:SER:OG	11:D5:202:ASP:OD1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D5:260:THR:HG23	7:TK:150:LYS:C	2.32	0.54
5:J7:66:LEU:O	5:J7:73:ALA:HB3	2.07	0.54
7:c7:122:VAL:HG13	7:c7:123:PRO:HD2	1.90	0.54
4:I9:28:ASN:OD1	4:I9:32:GLN:NE2	2.40	0.54
6:h9:145:SER:OG	6:h9:146:ALA:N	2.39	0.54
7:FA:115:GLU:CD	14:MA:111:ARG:HG3	2.33	0.54
6:GA:106:ASP:HA	6:GA:110:ILE:HB	1.89	0.54
17:BB:181:THR:HB	29:BB:301:PEB:HBA1	0.61	0.54
6:IB:34:SER:HA	6:IB:37:ARG:HG2	1.90	0.54
7:NB:25:GLN:HG3	21:MP:147:LYS:HD2	1.87	0.54
6:QB:34:SER:HA	6:QB:37:ARG:HG2	1.90	0.54
7:VB:82:CYS:HA	7:VB:85:ASP:OD2	2.07	0.54
6:fB:34:SER:HA	6:fB:37:ARG:HG2	1.90	0.54
6:IB:34:SER:HA	6:IB:37:ARG:HG2	1.90	0.54
6:FD:16:GLY:C	7:GD:91:ARG:HH12	2.16	0.54
6:FD:92:LEU:HD21	6:FD:108:TRP:HB2	1.89	0.54
6:HD:81:LYS:NZ	6:HD:85:ASP:CG	2.66	0.54
6:HD:113:ALA:CA	7:MD:76:ASN:HD21	2.21	0.54
7:MD:12:SER:HB2	7:MD:17:ALA:HB3	1.89	0.54
7:MD:111:ASN:OD1	7:MD:111:ASN:N	2.34	0.54
6:AE:25:GLU:OE2	6:CE:33:ARG:CG	2.55	0.54
7:TF:107:ASP:OD1	7:TF:107:ASP:N	2.37	0.54
7:DG:38:LEU:HD13	29:DG:202:PEB:HBD1	1.90	0.54
7:FG:21:GLY:O	7:FG:25:GLN:NE2	2.41	0.54
7:HG:136:ALA:C	29:HG:203:PEB:O1C	2.51	0.54
14:MG:228:GLN:HB2	14:MG:294:ARG:HH12	1.72	0.54
4:GI:3:THR:O	4:GI:7:GLU:HG2	2.08	0.54
7:HJ:25:GLN:O	7:HJ:26:ALA:C	2.49	0.54
7:HJ:128:ILE:HD11	7:HJ:177:SER:OG	2.07	0.54
7:PJ:30:PHE:CD1	7:PJ:30:PHE:C	2.86	0.54
6:aJ:43:LYS:CE	6:aJ:143:ASP:O	2.56	0.54
19:zJ:316:PHE:HE2	20:pP:83:ARG:NH1	2.05	0.54
4:GK:45:THR:HG23	5:HK:18:PHE:CG	2.43	0.54
5:JK:8:VAL:HG12	5:JK:19:LEU:HD22	1.89	0.54
6:jK:55:ALA:HB2	6:jK:134:THR:CG2	2.38	0.54
7:HL:66:LEU:HD11	7:HL:126:SER:CB	2.35	0.54
7:HL:128:ILE:HD11	7:HL:177:SER:OG	2.07	0.54
16:wL:183:LYS:CE	16:xL:41:ASN:H	2.16	0.54
19:zL:362:GLY:CA	21:LP:62:TYR:CE2	2.91	0.54
15:bM:329:MET:CE	20:mP:82:LEU:HD11	2.37	0.54
6:GM:159:LEU:CD1	6:GM:163:LEU:HD12	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OM:34:SER:HA	6:OM:37:ARG:HG2	1.90	0.54
6:SM:34:SER:HA	6:SM:37:ARG:HG2	1.90	0.54
6:GN:122:LEU:HD22	29:GN:201:PEB:HNA	1.73	0.54
7:HN:60:ILE:HD11	7:HN:67:ILE:HB	1.90	0.54
6:AO:42:GLU:HG3	7:BO:24:LEU:HD13	1.86	0.54
6:AO:102:THR:HG22	6:AO:155:TYR:HE1	1.73	0.54
7:JO:7:ARG:NH2	7:JO:103:SER:OG	2.41	0.54
20:EP:68:PRO:HA	20:EP:73:TYR:CE1	2.43	0.54
21:IP:154:ASP:O	21:IP:158:SER:OG	2.25	0.54
20:JP:56:GLN:O	20:JP:60:GLN:HG3	2.07	0.54
20:KP:30:VAL:HG12	21:OP:31:PHE:HD1	1.73	0.54
20:PP:35:ARG:HB3	26:ZP:120:PHE:CD2	2.42	0.54
21:QP:64:ASP:OD2	27:3P:48:THR:HA	2.07	0.54
21:UP:154:ASP:O	21:UP:158:SER:OG	2.25	0.54
21:qP:87:TYR:CE2	24:zP:87:LEU:HD22	2.30	0.54
20:rP:68:PRO:HA	20:rP:73:TYR:CE1	2.43	0.54
6:AQ:2:LYS:CA	6:AQ:2:LYS:CE	2.85	0.54
6:AQ:159:LEU:O	6:AQ:163:LEU:HB2	2.08	0.54
7:BQ:21:GLY:O	7:BQ:25:GLN:NE2	2.41	0.54
7:BQ:154:ALA:O	29:BQ:202:PEB:NA	2.32	0.54
7:LQ:38:LEU:HD13	29:LQ:201:PEB:HBD1	1.90	0.54
7:PR:65:GLY:O	7:PR:68:SER:OG	2.26	0.54
3:B1:225:VAL:HA	3:B1:228:MET:HG2	1.90	0.54
4:I1:5:ILE:HG12	4:I1:27:VAL:HG23	1.90	0.54
5:J1:77:ARG:HB2	4:M1:113:ALA:O	2.08	0.54
6:U1:159:LEU:HD12	6:U1:159:LEU:O	2.07	0.54
6:M2:138:LEU:CB	29:M2:202:PEB:CMD	2.86	0.54
6:O2:141:PRO:HA	6:IB:67:LYS:HZ3	1.73	0.54
7:R2:65:GLY:O	7:R2:68:SER:OG	2.26	0.54
29:T2:203:PEB:HBD1	13:k6:267:LYS:NZ	2.22	0.54
6:W2:91:ARG:HG2	6:W2:95:TYR:CE2	2.43	0.54
7:X2:57:SER:O	7:X2:61:CYS:SG	2.65	0.54
7:J3:7:ARG:NH2	7:J3:103:SER:OG	2.41	0.54
7:J3:75:THR:OG1	7:J3:76:ASN:N	2.41	0.54
10:d4:66:MET:HB2	10:d4:70:ASP:OD1	2.07	0.54
7:C4:53:SER:OG	7:C4:54:ASP:N	2.41	0.54
6:D4:118:ARG:HH12	6:F4:118:ARG:HH22	1.56	0.54
6:F4:136:ASP:N	6:F4:136:ASP:OD1	2.40	0.54
7:M4:37:ARG:NH2	7:M4:100:GLY:HA2	2.23	0.54
13:k6:5:PRO:HB2	13:k6:10:TYR:HE2	1.71	0.54
5:J7:75:THR:HA	31:M7:1001:CYC:HBB2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l7:137:ARG:NH1	29:l7:202:PEB:C4B	2.70	0.54
1:X9:106:GLN:HB2	1:X9:124:LEU:HD11	1.90	0.54
2:A9:284:ARG:NH2	2:A9:290:TYR:O	2.40	0.54
3:B9:197:PHE:HB2	21:sP:50:THR:HG21	1.89	0.54
5:F9:25:ASP:N	5:F9:25:ASP:OD1	2.41	0.54
7:DA:75:THR:HG21	6:KA:108:TRP:CD1	2.42	0.54
29:FA:201:PEB:CAD	14:MA:181:TYR:CD2	2.91	0.54
15:bB:203:PRO:HA	7:FB:108:ARG:HA	1.89	0.54
6:KB:34:SER:HA	6:KB:37:ARG:HG2	1.90	0.54
6:OB:34:SER:HA	6:OB:37:ARG:HG2	1.90	0.54
6:UB:142:ARG:HG2	14:MG:112:LEU:O	2.02	0.54
6:dB:34:SER:HA	6:dB:37:ARG:HG2	1.90	0.54
18:MC:301:ASN:O	6:gJ:49:GLU:O	2.26	0.54
7:ED:9:VAL:O	7:ED:12:SER:OG	2.19	0.54
7:ED:74:TYR:HB3	7:ED:78:ARG:NH2	2.21	0.54
18:ME:220:THR:HG22	18:ME:221:ALA:N	2.22	0.54
1:XF:154:ARG:HD2	1:XF:208:LEU:HD11	1.90	0.54
7:aF:128:ILE:HA	7:aF:131:VAL:HG22	1.90	0.54
6:EG:2:LYS:HZ3	14:MG:194:ILE:H	1.55	0.54
7:FG:57:SER:HA	7:FG:60:ILE:HG21	1.87	0.54
7:LG:21:GLY:O	7:LG:25:GLN:NE2	2.41	0.54
7:LG:116:THR:CG2	14:MG:233:ALA:CA	2.86	0.54
14:MG:105:LYS:CG	14:MG:106:ASP:H	1.96	0.54
5:HI:41:VAL:HG21	5:HI:98:ILE:CG2	2.38	0.54
5:LI:41:VAL:HG21	5:LI:98:ILE:CG2	2.38	0.54
7:aI:128:ILE:HA	7:aI:131:VAL:HG22	1.90	0.54
7:FJ:30:PHE:CD1	7:FJ:30:PHE:C	2.86	0.54
7:FJ:139:VAL:HG21	25:YP:516:SER:CA	2.24	0.54
6:gJ:33:ARG:HE	6:iJ:25:GLU:HG2	1.73	0.54
2:AK:154:HIS:HB3	29:AK:301:PEB:HBA1	1.89	0.54
5:NK:47:ASN:OD1	5:NK:141:LEU:HD21	2.07	0.54
7:RL:114:LYS:NZ	7:RL:177:SER:O	2.40	0.54
7:hL:125:ASN:N	7:hL:125:ASN:OD1	2.41	0.54
6:kL:116:VAL:HG21	7:tL:79:MET:HB3	1.89	0.54
16:wL:164:SER:CB	16:xL:36:GLN:CD	2.81	0.54
17:yL:268:ASP:N	17:yL:268:ASP:OD1	2.41	0.54
15:bM:355:LEU:HD23	6:MM:53:LYS:NZ	2.23	0.54
6:QM:53:LYS:HE2	6:QM:53:LYS:HA	1.90	0.54
6:UM:43:LYS:HD3	14:MQ:115:TYR:HH	1.70	0.54
7:DN:80:ALA:HB2	6:KN:112:GLY:O	2.07	0.54
6:EN:4:VAL:O	6:EN:7:THR:OG1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:HN:201:PEB:HBD1	14:MN:299:ARG:CZ	2.38	0.54
6:KN:16:GLY:N	14:MN:247:LYS:HD2	2.23	0.54
20:EP:21:GLY:O	20:EP:25:ARG:HG2	2.08	0.54
20:NP:21:GLY:O	20:NP:25:ARG:HG2	2.08	0.54
20:PP:56:GLN:O	20:PP:60:GLN:HG3	2.07	0.54
20:PP:68:PRO:HA	20:PP:73:TYR:CE1	2.43	0.54
25:YP:667:LEU:HD23	25:YP:668:LYS:N	2.22	0.54
25:YP:735:ILE:HA	25:YP:738:PHE:CE2	2.43	0.54
21:dP:1:MET:SD	20:eP:5:THR:HG23	2.48	0.54
20:vP:25:ARG:HD3	27:3P:159:SER:CB	2.38	0.54
25:1P:270:SER:HB3	25:1P:273:GLU:OE1	2.08	0.54
25:1P:709:GLU:HB3	25:1P:836:ARG:HG2	1.89	0.54
7:DQ:21:GLY:O	7:DQ:25:GLN:NE2	2.41	0.54
6:GQ:40:ALA:HB3	6:GQ:97:LEU:HD21	1.89	0.54
6:IQ:40:ALA:HB3	6:IQ:97:LEU:HD21	1.89	0.54
14:MQ:185:LYS:O	14:MQ:189:LYS:NZ	2.41	0.54
6:QR:91:ARG:HG2	6:QR:95:TYR:CE2	2.43	0.54
7:RR:57:SER:O	7:RR:61:CYS:SG	2.65	0.54
6:SR:54:GLU:OE1	6:SR:137:ARG:CZ	2.55	0.54
7:XR:89:ILE:O	7:XR:93:VAL:HG22	2.08	0.54
1:X1:127:ASP:OD1	1:X1:130:ARG:NH2	2.41	0.53
3:B1:80:ILE:HB	3:B1:157:SER:HA	1.90	0.53
6:O1:5:ILE:CB	7:P1:3:ASP:OD2	2.56	0.53
6:U1:55:ALA:HB2	6:U1:134:THR:CG2	2.38	0.53
6:M2:138:LEU:HD12	29:M2:202:PEB:CMD	2.36	0.53
6:Q2:87:ASP:OD1	7:R2:18:TYR:OH	2.25	0.53
6:S2:50:ALA:O	6:S2:54:GLU:HG3	2.08	0.53
7:X2:65:GLY:O	7:X2:68:SER:OG	2.26	0.53
7:D3:75:THR:OG1	7:D3:76:ASN:N	2.41	0.53
9:O3:254:LEU:HD13	9:O3:273:LYS:HD2	1.89	0.53
10:d4:331:GLN:HG3	10:dD:335:LEU:HD11	1.69	0.53
6:F4:81:LYS:CE	6:F4:84:ARG:HD3	2.27	0.53
7:G4:147:THR:OG1	7:G4:148:GLU:OE1	2.24	0.53
7:K4:160:SER:O	7:K4:163:SER:OG	2.25	0.53
7:M4:12:SER:HB2	7:M4:17:ALA:HB3	1.89	0.53
7:H5:44:ILE:HG23	7:H5:51:MET:HE1	1.89	0.53
7:I5:24:LEU:CA	19:zL:291:ILE:HG23	2.37	0.53
6:S7:30:ASN:OD1	6:S7:37:ARG:NH2	2.40	0.53
7:I8:5:PHE:HD1	7:I8:5:PHE:H	1.56	0.53
6:Q9:53:LYS:HZ2	4:EK:49:GLN:C	2.06	0.53
6:U9:30:ASN:OD1	6:U9:37:ARG:NH2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KA:91:ARG:NH1	7:LA:16:ALA:HA	2.23	0.53
15:bB:311:GLN:OE1	28:bP:40:ARG:CD	2.55	0.53
6:YB:34:SER:HA	6:YB:37:ARG:HG2	1.90	0.53
6:BD:92:LEU:HD21	6:BD:108:TRP:HB2	1.89	0.53
6:BD:113:ALA:O	6:BD:116:VAL:HG22	2.08	0.53
6:DD:118:ARG:HH11	6:FD:114:ARG:HD3	1.72	0.53
6:FD:142:ARG:HH22	29:FD:202:PEB:CGC	2.16	0.53
6:HD:92:LEU:HD21	6:HD:108:TRP:HB2	1.89	0.53
7:MD:36:LYS:HZ1	29:MD:202:PEB:HBB2	1.72	0.53
7:MD:65:GLY:O	7:MD:68:SER:OG	2.15	0.53
7:BE:51:MET:HE1	7:BE:137:GLN:HB3	0.63	0.53
7:BE:73:CYS:C	7:BE:79:MET:SD	2.87	0.53
7:FE:11:ASN:O	7:FE:15:LYS:NZ	2.41	0.53
18:ME:233:ALA:N	18:ME:236:ASP:CG	2.62	0.53
7:BG:21:GLY:O	7:BG:25:GLN:NE2	2.41	0.53
7:FG:38:LEU:HD13	29:FG:202:PEB:HBD1	1.90	0.53
6:KG:38:LEU:HD13	7:LG:28:LYS:HZ1	1.72	0.53
7:LG:141:PHE:HZ	29:LG:203:PEB:C3A	2.20	0.53
6:AJ:68:ASN:HB2	6:AJ:71:GLU:HG2	1.89	0.53
6:cJ:66:LEU:HD22	6:cJ:72:ALA:HB2	1.86	0.53
3:BK:80:ILE:HB	3:BK:157:SER:HA	1.90	0.53
5:DK:165:ASP:N	5:DK:165:ASP:OD1	2.40	0.53
6:bK:55:ALA:HB2	6:bK:134:THR:CG2	2.38	0.53
6:bK:135:ARG:HD2	6:bK:157:ASP:CG	2.34	0.53
6:fK:55:ALA:HB2	6:fK:134:THR:CG2	2.38	0.53
6:IL:133:TYR:CD1	6:IL:133:TYR:C	2.86	0.53
6:oL:10:SER:HB3	7:pL:108:ARG:HH22	1.73	0.53
7:vL:125:ASN:N	7:vL:125:ASN:OD1	2.41	0.53
15:bM:246:ASN:ND2	15:bM:251:LYS:O	2.38	0.53
17:BM:225:VAL:HG23	6:UM:14:ALA:HA	1.90	0.53
6:CM:34:SER:HA	6:CM:37:ARG:HG2	1.90	0.53
7:RM:58:GLY:N	7:RM:61:CYS:SG	2.81	0.53
6:aM:34:SER:HA	6:aM:37:ARG:HG2	1.90	0.53
7:DN:60:ILE:HD11	7:DN:67:ILE:HB	1.90	0.53
6:EN:122:LEU:HD22	29:EN:201:PEB:HNA	1.73	0.53
20:AP:21:GLY:O	20:AP:25:ARG:HG2	2.08	0.53
20:EP:89:LEU:HB2	20:EP:133:MET:HE1	1.90	0.53
20:GP:89:LEU:HB2	20:GP:133:MET:HE1	1.90	0.53
21:HP:73:TYR:OH	20:JP:90:ARG:NH2	2.33	0.53
20:RP:21:GLY:O	20:RP:25:ARG:HG2	2.08	0.53
25:YP:20:ALA:CB	25:YP:166:GLY:HA3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YP:77:VAL:CB	25:YP:133:LYS:HE2	2.35	0.53
27:aP:266:VAL:O	27:aP:266:VAL:HG13	2.08	0.53
20:eP:89:LEU:HB2	20:eP:133:MET:HE1	1.90	0.53
21:nP:28:ARG:NH1	22:xP:34:GLU:HG2	2.23	0.53
21:sP:13:ASP:HB2	20:tP:94:TYR:CE2	2.42	0.53
7:HQ:21:GLY:O	7:HQ:25:GLN:NE2	2.41	0.53
14:MQ:195:CYS:O	14:MQ:199:GLU:N	2.39	0.53
8:eR:86:LEU:C	8:eR:88:GLY:H	2.15	0.53
29:MR:202:PEB:HHB1	29:MR:202:PEB:CGC	2.37	0.53
7:PR:84:ARG:HG2	7:PR:88:ILE:CG1	2.37	0.53
3:B1:217:ASP:O	3:B1:220:LEU:HG	2.08	0.53
4:C1:5:ILE:HG12	4:C1:27:VAL:HG23	1.90	0.53
4:C1:34:ALA:O	4:C1:38:LEU:HB2	2.07	0.53
4:E1:53:THR:HB	6:Q7:76:GLN:HE22	1.72	0.53
4:E1:142:LEU:HD12	4:E1:146:VAL:HG12	1.89	0.53
5:F1:165:ASP:N	5:F1:165:ASP:OD1	2.40	0.53
5:J1:40:ILE:CG2	5:J1:41:VAL:N	2.71	0.53
6:A3:54:GLU:OE1	29:A3:202:PEB:CMC	2.57	0.53
6:B4:136:ASP:N	6:B4:136:ASP:OD1	2.40	0.53
7:E4:53:SER:OG	7:E4:54:ASP:N	2.41	0.53
7:G4:53:SER:OG	7:G4:54:ASP:N	2.41	0.53
7:G4:160:SER:O	7:G4:164:GLU:HG3	2.08	0.53
7:I5:28:LYS:HB3	19:zL:290:LEU:O	2.08	0.53
7:I5:28:LYS:HB2	19:zL:290:LEU:C	2.32	0.53
7:I5:79:MET:CE	15:bB:229:LEU:CD1	2.86	0.53
4:C7:28:ASN:OD1	4:C7:32:GLN:NE2	2.40	0.53
5:D7:49:SER:O	5:D7:53:THR:OG1	2.24	0.53
5:L7:63:GLN:NE2	27:aP:284:VAL:HG23	2.23	0.53
6:d7:43:LYS:NZ	6:d7:143:ASP:O	2.35	0.53
6:j7:43:LYS:NZ	6:j7:143:ASP:O	2.35	0.53
6:AA:122:LEU:HD22	29:AA:201:PEB:HNA	1.73	0.53
6:CA:122:LEU:HD22	29:CA:201:PEB:HNA	1.73	0.53
6:KA:122:LEU:HD22	29:KA:201:PEB:HNA	1.73	0.53
7:LA:60:ILE:HD11	7:LA:67:ILE:HB	1.91	0.53
7:LA:109:CYS:HA	14:MA:236:TYR:OH	2.07	0.53
6:GB:138:LEU:CD1	29:GB:202:PEB:HMD1	2.34	0.53
6:QB:53:LYS:HE2	6:QB:53:LYS:HA	1.90	0.53
6:SB:34:SER:HA	6:SB:37:ARG:HG2	1.90	0.53
7:mB:58:GLY:O	7:mB:62:GLU:HG3	2.09	0.53
7:HC:11:ASN:O	7:HC:15:LYS:NZ	2.41	0.53
10:dD:66:MET:HB2	10:dD:70:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:147:GLN:O	6:BD:150:VAL:N	2.29	0.53
6:HD:113:ALA:O	6:HD:116:VAL:HG22	2.08	0.53
7:ID:53:SER:OG	7:ID:54:ASP:N	2.41	0.53
6:JD:81:LYS:NZ	6:JD:85:ASP:CG	2.66	0.53
7:KD:37:ARG:NH2	7:KD:100:GLY:HA2	2.23	0.53
6:LD:81:LYS:NZ	6:LD:85:ASP:CG	2.66	0.53
7:MD:37:ARG:NH2	7:MD:100:GLY:HA2	2.23	0.53
18:ME:196:ASP:HB2	18:ME:237:PHE:CZ	2.44	0.53
18:ME:200:ARG:NE	18:ME:237:PHE:CD1	2.68	0.53
5:DF:41:VAL:HG21	5:DF:98:ILE:CG2	2.38	0.53
6:AG:40:ALA:HB3	6:AG:97:LEU:HD21	1.89	0.53
7:BG:97:LEU:HD21	7:BG:168:TYR:HD2	1.73	0.53
6:CG:31:ILE:O	6:CG:34:SER:OG	2.19	0.53
7:LG:62:GLU:OE1	29:LG:203:PEB:HBD1	2.00	0.53
14:MG:195:CYS:O	14:MG:199:GLU:N	2.39	0.53
5:JI:62:GLU:HB2	20:PP:75:GLU:HG3	1.90	0.53
6:WJ:72:ALA:CB	29:WJ:202:PEB:OA	2.55	0.53
7:XJ:125:ASN:N	7:XJ:125:ASN:OD1	2.41	0.53
6:kJ:112:GLY:O	7:tJ:80:ALA:HB2	2.08	0.53
29:kJ:201:PEB:HMC2	7:tJ:79:MET:HB2	1.89	0.53
6:uJ:6:THR:O	6:uJ:10:SER:OG	2.23	0.53
4:CK:34:ALA:O	4:CK:38:LEU:HB2	2.07	0.53
4:GK:45:THR:HG1	5:HK:18:PHE:HD2	1.56	0.53
7:BL:125:ASN:N	7:BL:125:ASN:OD1	2.41	0.53
6:QL:47:ASN:ND2	29:QL:202:PEB:C4D	2.63	0.53
6:QL:75:ASN:N	6:QL:78:LYS:HD2	2.23	0.53
6:kL:154:ALA:HB3	6:mL:21:ASN:HD21	1.74	0.53
7:rL:107:ASP:HB2	16:xL:143:THR:HG21	1.90	0.53
15:bM:72:SER:HB2	6:KM:107:GLU:OE1	2.08	0.53
15:bM:112:SER:OG	15:bM:189:ASP:O	2.27	0.53
7:LM:58:GLY:O	7:LM:62:GLU:HG3	2.09	0.53
6:MM:34:SER:HA	6:MM:37:ARG:HG2	1.90	0.53
7:iM:58:GLY:O	7:iM:62:GLU:HG3	2.09	0.53
6:AN:122:LEU:HD22	29:AN:201:PEB:HNA	1.73	0.53
20:AP:71:ASN:ND2	20:AP:121:THR:OG1	2.42	0.53
20:GP:21:GLY:O	20:GP:25:ARG:HG2	2.08	0.53
20:GP:71:ASN:ND2	20:GP:121:THR:OG1	2.42	0.53
28:bP:119:GLU:OE2	28:bP:122:SER:HB3	2.08	0.53
28:bP:228:ILE:HG23	28:bP:231:ILE:HD11	1.90	0.53
21:dP:90:ARG:CD	20:eP:16:ARG:N	2.70	0.53
21:hP:154:ASP:O	21:hP:158:SER:OG	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:pP:89:LEU:HB2	20:pP:133:MET:HE1	1.90	0.53
21:qP:154:ASP:O	21:qP:158:SER:OG	2.25	0.53
20:tP:71:ASN:ND2	20:tP:121:THR:OG1	2.42	0.53
22:xP:76:ARG:O	22:xP:80:LEU:HD12	2.08	0.53
24:zP:48:GLY:O	24:zP:51:SER:OG	2.26	0.53
25:1P:735:ILE:HA	25:1P:738:PHE:CE2	2.43	0.53
6:CQ:10:SER:CB	14:MQ:140:VAL:HG22	2.38	0.53
7:JQ:21:GLY:O	7:JQ:25:GLN:NE2	2.41	0.53
7:LQ:50:CYS:SG	29:LQ:202:PEB:HAA2	2.46	0.53
8:eR:122:SER:HB2	29:VR:201:PEB:HBC1	1.91	0.53
6:OR:114:ARG:HB3	6:OR:118:ARG:NH2	2.22	0.53
6:WR:50:ALA:O	6:WR:54:GLU:HG3	2.08	0.53
2:A1:35:THR:O	6:Q1:118:ARG:NH2	2.42	0.53
3:B1:57:GLU:HB3	5:L1:84:ARG:HD2	1.91	0.53
3:B1:204:ARG:HD3	3:B1:204:ARG:O	2.07	0.53
5:D1:58:ALA:O	5:D1:62:GLU:OE1	2.26	0.53
4:E1:67:THR:CG2	13:k6:109:GLU:CD	2.82	0.53
8:e2:118:ARG:NH2	7:V2:87:GLU:CD	2.66	0.53
7:X2:89:ILE:O	7:X2:93:VAL:HG22	2.08	0.53
7:F3:75:THR:OG1	7:F3:76:ASN:N	2.41	0.53
7:C4:12:SER:HB2	7:C4:17:ALA:HB3	1.89	0.53
7:C4:36:LYS:HZ3	29:C4:202:PEB:C2B	2.22	0.53
6:F4:81:LYS:NZ	6:F4:85:ASP:CG	2.66	0.53
7:I4:53:SER:OG	7:I4:54:ASP:N	2.41	0.53
6:J4:92:LEU:HD21	6:J4:108:TRP:HB2	1.89	0.53
7:K4:37:ARG:NH2	7:K4:100:GLY:HA2	2.23	0.53
7:B5:44:ILE:HG23	7:B5:51:MET:HE1	1.90	0.53
7:L5:79:MET:HE1	13:k6:233:VAL:HB	1.82	0.53
13:k6:61:ARG:O	7:V7:145:THR:HG22	2.08	0.53
7:F8:106:GLU:OE2	7:F8:171:ARG:NH1	2.39	0.53
7:I8:27:LEU:HD23	19:zJ:294:GLY:O	2.08	0.53
6:J8:62:LYS:O	20:pP:45:GLU:OE2	2.26	0.53
3:B9:197:PHE:HB2	21:sP:50:THR:CB	2.36	0.53
4:E9:79:ILE:CD1	13:kH:220:GLU:HB3	2.38	0.53
4:K9:28:ASN:OD1	4:K9:32:GLN:NE2	2.40	0.53
7:DA:60:ILE:HD11	7:DA:67:ILE:HB	1.90	0.53
7:DA:77:ARG:NE	6:KA:107:GLU:O	2.40	0.53
6:EA:137:ARG:HG3	29:EA:202:PEB:HMD2	1.89	0.53
6:GA:137:ARG:HG3	29:GA:202:PEB:HMD2	1.89	0.53
6:IA:106:ASP:HA	6:IA:110:ILE:HB	1.89	0.53
7:NB:170:ASP:HB3	28:bP:184:THR:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BC:11:ASN:O	7:BC:15:LYS:NZ	2.41	0.53
7:DC:11:ASN:O	7:DC:15:LYS:NZ	2.41	0.53
18:MC:304:TRP:CD2	18:MC:304:TRP:C	2.85	0.53
10:dD:93:ARG:C	10:dD:95:SER:H	2.15	0.53
10:dD:250:GLY:O	10:dD:254:THR:OG1	2.24	0.53
10:dD:282:LYS:HE3	6:WI:74:GLU:OE2	2.06	0.53
6:BD:114:ARG:HD3	6:LD:118:ARG:HH11	1.73	0.53
7:GD:147:THR:OG1	7:GD:148:GLU:OE1	2.24	0.53
18:ME:232:MET:HG3	18:ME:236:ASP:C	2.33	0.53
4:KF:70:PRO:HG3	9:OO:308:TYR:CD2	2.43	0.53
6:EG:2:LYS:HZ1	14:MG:194:ILE:N	2.05	0.53
7:FG:107:ASP:HB2	14:MG:203:GLN:OE1	2.08	0.53
6:GG:159:LEU:O	6:GG:163:LEU:HB2	2.07	0.53
6:IG:40:ALA:HB3	6:IG:97:LEU:HD21	1.89	0.53
4:GI:17:ARG:O	5:HI:95:TYR:OH	2.27	0.53
7:FJ:145:THR:HG1	25:YP:514:ILE:CG2	2.08	0.53
29:qJ:201:PEB:HAC1	7:vJ:79:MET:HG2	1.89	0.53
7:tJ:125:ASN:N	7:tJ:125:ASN:OD1	2.41	0.53
16:wJ:112:ARG:NH1	16:wJ:120:ASP:OD2	2.41	0.53
17:yJ:237:ARG:HA	30:yJ:302:PUB:HBD3	1.90	0.53
6:dK:55:ALA:HB2	6:dK:134:THR:CG2	2.38	0.53
7:NL:125:ASN:N	7:NL:125:ASN:OD1	2.41	0.53
7:PL:117:TYR:O	7:PL:120:LEU:N	2.41	0.53
7:RL:125:ASN:N	7:RL:125:ASN:OD1	2.41	0.53
7:dL:125:ASN:N	7:dL:125:ASN:OD1	2.41	0.53
7:JM:147:THR:OG1	29:JM:203:PEB:O2B	2.25	0.53
6:UM:34:SER:HA	6:UM:37:ARG:HG2	1.90	0.53
7:kM:85:ASP:OD2	29:kM:201:PEB:CHC	2.45	0.53
6:AN:106:ASP:HA	6:AN:110:ILE:HB	1.89	0.53
7:BN:60:ILE:HD11	7:BN:67:ILE:HB	1.91	0.53
14:MN:102:LYS:N	14:MN:103:ARG:HH11	2.06	0.53
7:FO:7:ARG:NH2	7:FO:103:SER:OG	2.41	0.53
20:GP:68:PRO:HA	20:GP:73:TYR:CE1	2.43	0.53
20:RP:68:PRO:HA	20:RP:73:TYR:CE1	2.43	0.53
24:XP:77:SER:O	24:XP:78:GLN:HG2	2.07	0.53
20:iP:56:GLN:O	20:iP:60:GLN:HG3	2.07	0.53
20:IP:56:GLN:O	20:IP:60:GLN:HG3	2.07	0.53
20:mP:71:ASN:ND2	20:mP:121:THR:OG1	2.42	0.53
20:mP:89:LEU:HB2	20:mP:133:MET:HE1	1.90	0.53
28:4P:119:GLU:OE2	28:4P:122:SER:HB3	2.08	0.53
6:AQ:37:ARG:HG3	6:AQ:38:LEU:HG	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FQ:21:GLY:O	7:FQ:25:GLN:NE2	2.41	0.53
7:HQ:111:ASN:H	14:MQ:298:ARG:HH22	1.55	0.53
6:MR:50:ALA:O	6:MR:54:GLU:HG3	2.08	0.53
7:NR:79:MET:O	7:NR:83:LEU:CD1	2.49	0.53
6:SR:131:ILE:HG23	6:SR:156:LEU:HD22	1.89	0.53
7:VR:84:ARG:HH11	7:VR:84:ARG:CG	2.13	0.53
7:VR:134:MET:HA	7:VR:137:GLN:CD	2.34	0.53
6:WR:84:ARG:NH2	29:WR:201:PEB:O1C	2.38	0.53
3:B1:167:ILE:HG23	5:N1:77:ARG:HH21	1.72	0.53
4:E1:49:GLN:HG2	6:Q7:53:LYS:HG2	1.90	0.53
5:H1:40:ILE:CG1	29:H1:1002:PEB:CBA	2.76	0.53
5:L1:33:GLU:OE1	5:L1:156:LEU:CG	2.56	0.53
5:L1:36:GLN:O	5:L1:40:ILE:HD12	2.08	0.53
6:I1:55:ALA:HB2	6:I1:134:THR:CG2	2.38	0.53
6:M2:91:ARG:HG2	6:M2:95:TYR:CE2	2.43	0.53
6:U2:28:GLN:OE1	6:U2:31:ILE:HD12	2.09	0.53
6:U2:116:VAL:HG13	6:U2:120:LEU:CD1	2.38	0.53
7:X2:75:THR:HG23	7:X2:77:ARG:H	1.73	0.53
10:d4:331:GLN:C	10:dD:331:GLN:HE22	2.15	0.53
7:C4:37:ARG:NH2	7:C4:100:GLY:HA2	2.23	0.53
7:C4:106:GLU:OE2	7:C4:106:GLU:N	2.41	0.53
6:F4:16:GLY:C	7:G4:91:ARG:HH12	2.15	0.53
6:L4:81:LYS:NZ	6:L4:85:ASP:CG	2.66	0.53
6:L4:113:ALA:O	6:L4:116:VAL:HG22	2.08	0.53
7:I5:24:LEU:C	19:zL:291:ILE:HG23	2.33	0.53
7:C5:40:ALA:HB2	7:C5:161:LEU:CD1	2.34	0.53
6:U7:28:GLN:HE21	29:V7:202:PEB:HBD1	1.74	0.53
6:Z7:43:LYS:NZ	6:Z7:143:ASP:O	2.35	0.53
29:G8:203:PEB:HMC1	29:G8:203:PEB:HMD1	1.90	0.53
7:I8:21:GLY:O	7:I8:23:ASP:N	2.41	0.53
7:I8:27:LEU:CD2	19:zJ:295:LYS:HA	2.38	0.53
5:F9:49:SER:O	5:F9:53:THR:OG1	2.24	0.53
6:Z9:43:LYS:NZ	6:Z9:143:ASP:O	2.35	0.53
6:h9:30:ASN:OD1	6:h9:37:ARG:NH2	2.40	0.53
7:m9:135:LYS:HA	7:m9:169:PHE:CE2	2.44	0.53
6:CA:14:ALA:CB	14:MA:141:TYR:HD2	2.21	0.53
7:DA:37:ARG:NH2	7:DA:164:GLU:OE1	2.38	0.53
17:BB:182:GLU:HB3	29:BB:301:PEB:CMD	2.33	0.53
7:LB:58:GLY:O	7:LB:62:GLU:HG3	2.09	0.53
6:OB:9:VAL:HG13	7:PB:95:TYR:CD1	2.44	0.53
7:FC:47:ASN:OD1	7:FC:149:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IC:136:ASP:N	6:IC:136:ASP:OD1	2.42	0.53
18:MC:241:ALA:CA	6:SF:133:TYR:OH	2.56	0.53
18:MC:255:LYS:C	18:MC:256:THR:HG1	2.05	0.53
6:DD:34:SER:CB	6:DD:37:ARG:HH21	2.21	0.53
7:ED:37:ARG:NH2	7:ED:100:GLY:HA2	2.23	0.53
7:GD:133:ILE:HD11	29:GD:203:PEB:C4C	2.38	0.53
7:ID:58:GLY:CA	29:ID:203:PEB:CAD	2.85	0.53
29:KD:202:PEB:HBD1	6:LD:33:ARG:HH12	1.66	0.53
7:MD:147:THR:OG1	7:MD:148:GLU:OE1	2.24	0.53
7:DE:11:ASN:O	7:DE:15:LYS:NZ	2.41	0.53
7:FE:110:LEU:HD11	7:FE:172:VAL:HG13	1.91	0.53
7:HE:47:ASN:OD1	7:HE:149:ARG:NH1	2.42	0.53
5:LF:106:ASP:OD2	5:LF:166:ARG:NH1	2.42	0.53
5:NF:106:ASP:OD2	5:NF:166:ARG:NH1	2.42	0.53
1:XI:204:THR:OG1	7:PI:84:ARG:NH1	2.41	0.53
4:EI:47:SER:OG	4:EI:50:ARG:NH2	2.39	0.53
7:FJ:44:ILE:HD11	7:FJ:142:ILE:HD11	1.88	0.53
7:VJ:125:ASN:N	7:VJ:125:ASN:OD1	2.41	0.53
6:mJ:41:ALA:CB	7:nJ:24:LEU:HD11	2.38	0.53
29:nJ:201:PEB:HBD2	16:xJ:108:ARG:CZ	2.39	0.53
19:zJ:329:ILE:HG23	20:pP:66:VAL:HG21	1.90	0.53
5:JK:27:LEU:O	5:JK:31:VAL:CG1	2.51	0.53
7:FL:44:ILE:HD11	7:FL:142:ILE:HD11	1.88	0.53
16:xL:105:ARG:HG2	29:xL:303:PEB:O1B	2.09	0.53
17:BM:246:ARG:NH2	7:PM:92:TYR:OH	2.41	0.53
6:KM:48:HIS:CD2	6:KM:49:GLU:OE2	2.61	0.53
6:OM:9:VAL:HG13	7:PM:95:TYR:CD1	2.44	0.53
7:iM:85:ASP:OD2	29:iM:201:PEB:HHC1	2.08	0.53
7:kM:85:ASP:CG	29:kM:201:PEB:CHC	2.56	0.53
6:CN:137:ARG:HG3	29:CN:202:PEB:HMD2	1.89	0.53
6:EN:1:MET:CE	14:MN:196:ASN:ND2	2.72	0.53
6:AO:54:GLU:OE1	29:AO:202:PEB:CMC	2.57	0.53
20:AP:89:LEU:HB2	20:AP:133:MET:HE1	1.90	0.53
21:DP:94:TYR:CG	20:CP:8:ILE:HG23	2.44	0.53
20:KP:71:ASN:ND2	20:KP:121:THR:OG1	2.42	0.53
21:OP:10:ASN:HD21	28:bP:49:GLY:C	2.13	0.53
25:YP:843:PRO:HB3	26:ZP:172:CYS:SG	2.48	0.53
21:jP:42:ALA:CA	25:1P:40:LEU:HD21	2.37	0.53
21:uP:1:MET:CE	21:uP:103:ILE:HD12	2.36	0.53
20:vP:71:ASN:ND2	20:vP:121:THR:OG1	2.42	0.53
23:yP:73:ALA:O	23:yP:75:ILE:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1P:20:ALA:CB	25:1P:166:GLY:HA3	2.38	0.53
6:AQ:136:ASP:OD1	6:AQ:136:ASP:N	2.30	0.53
7:BQ:141:PHE:CE1	29:BQ:203:PEB:HMA3	2.44	0.53
14:MQ:101:LEU:C	14:MQ:101:LEU:HD23	2.33	0.53
8:eR:244:ARG:NH2	7:XR:115:GLU:OE2	2.41	0.53
6:MR:84:ARG:NH2	29:MR:201:PEB:O1C	2.38	0.53
7:PR:79:MET:O	7:PR:83:LEU:HB2	2.08	0.53
4:G1:5:ILE:HG12	4:G1:27:VAL:HG23	1.90	0.53
4:M1:93:ARG:CG	5:N1:18:PHE:CE1	2.91	0.53
6:d1:55:ALA:HB2	6:d1:134:THR:CG2	2.38	0.53
6:h1:55:ALA:HB2	6:h1:134:THR:CG2	2.38	0.53
8:e2:235:SER:OG	29:e2:401:PEB:CBD	2.50	0.53
7:N2:79:MET:O	7:N2:83:LEU:CD1	2.49	0.53
7:N3:66:LEU:CD1	7:VL:155:ALA:HB3	2.10	0.53
10:d4:66:MET:HE3	10:d4:71:ARG:HG2	1.90	0.53
6:D4:113:ALA:O	6:D4:116:VAL:HG22	2.08	0.53
6:F4:113:ALA:O	6:F4:116:VAL:HG22	2.08	0.53
7:G4:147:THR:CG2	29:G4:203:PEB:CGB	2.83	0.53
6:H4:131:ILE:O	6:H4:134:THR:OG1	2.22	0.53
7:I4:37:ARG:NH2	7:I4:100:GLY:HA2	2.23	0.53
7:K4:26:ALA:HA	7:K4:29:SER:HG	1.73	0.53
7:M4:53:SER:OG	7:M4:54:ASP:N	2.41	0.53
7:H5:106:GLU:OE2	7:H5:171:ARG:NH1	2.39	0.53
6:J5:62:LYS:O	20:NP:45:GLU:OE2	2.27	0.53
12:E5:162:ASN:CA	29:kI:203:PEB:CHB	2.87	0.53
31:I7:1001:CYC:HMA1	5:L7:79:MET:HG2	1.90	0.53
6:l7:30:ASN:OD1	6:l7:37:ARG:NH2	2.40	0.53
7:m7:92:TYR:HB3	7:m7:105:LEU:CD1	2.39	0.53
7:B8:44:ILE:HG23	7:B8:51:MET:HE1	1.90	0.53
7:H8:44:ILE:HG23	7:H8:51:MET:HE1	1.90	0.53
3:B9:172:LYS:CD	5:N9:111:ASN:ND2	2.61	0.53
4:E9:124:LEU:HD11	31:E9:1001:CYC:C4D	2.38	0.53
4:K9:48:ALA:HB1	20:vP:68:PRO:HD3	1.90	0.53
5:N9:49:SER:O	5:N9:53:THR:OG1	2.24	0.53
7:DA:91:ARG:NH1	7:DA:95:TYR:OH	2.38	0.53
7:HA:75:THR:OG1	7:HA:76:ASN:N	2.41	0.53
16:AB:146:PRO:CD	16:AB:147:LYS:H	2.08	0.53
7:cB:58:GLY:O	7:cB:62:GLU:HG3	2.09	0.53
7:gB:35:ASN:HD22	7:gB:35:ASN:N	2.02	0.53
7:iB:58:GLY:O	7:iB:62:GLU:HG3	2.09	0.53
7:JC:110:LEU:HD11	7:JC:172:VAL:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:61:VAL:C	18:MC:65:LYS:HD3	2.34	0.53
18:MC:277:ARG:CD	5:DF:17:GLU:CD	2.79	0.53
6:DD:118:ARG:HH12	6:FD:118:ARG:HH22	1.56	0.53
6:FD:9:VAL:HB	7:GD:95:TYR:CD1	2.43	0.53
6:JD:113:ALA:O	6:JD:116:VAL:HG22	2.08	0.53
6:AE:157:ASP:O	6:AE:161:ASN:ND2	2.42	0.53
6:EE:157:ASP:O	6:EE:161:ASN:ND2	2.42	0.53
7:JE:110:LEU:HD11	7:JE:172:VAL:HG13	1.91	0.53
18:ME:277:ARG:NH2	5:DI:15:ARG:O	2.41	0.53
5:FF:41:VAL:HG21	5:FF:98:ILE:CG2	2.38	0.53
5:FF:106:ASP:OD2	5:FF:166:ARG:NH1	2.42	0.53
3:BI:126:ILE:HG22	31:NI:1001:CYC:HAA1	1.90	0.53
3:BI:219:ALA:HB3	27:aP:60:ALA:HB3	1.90	0.53
4:GI:145:GLN:NE2	29:JI:1002:PEB:HMC2	2.22	0.53
5:HI:14:ALA:O	7:YI:125:ASN:ND2	2.41	0.53
5:JI:41:VAL:HG21	5:JI:98:ILE:CG2	2.38	0.53
7:FJ:128:ILE:HD11	7:FJ:173:GLY:O	2.09	0.53
7:JJ:125:ASN:N	7:JJ:125:ASN:OD1	2.41	0.53
7:PJ:125:ASN:N	7:PJ:125:ASN:OD1	2.41	0.53
7:bJ:125:ASN:N	7:bJ:125:ASN:OD1	2.41	0.53
7:pJ:125:ASN:N	7:pJ:125:ASN:OD1	2.41	0.53
7:tJ:113:LEU:HD13	16:xJ:220:TYR:CE1	2.44	0.53
3:BK:186:ILE:HD13	5:LK:119:ALA:HA	1.90	0.53
5:JK:47:ASN:OD1	5:JK:141:LEU:HD21	2.07	0.53
6:WK:53:LYS:HD3	6:WK:53:LYS:N	2.23	0.53
15:bM:305:TRP:CZ2	7:FM:125:ASN:HB3	2.43	0.53
6:AN:4:VAL:O	6:AN:7:THR:OG1	2.26	0.53
6:AN:137:ARG:HG3	29:AN:202:PEB:HMD2	1.89	0.53
14:MN:102:LYS:H	14:MN:103:ARG:NH1	2.07	0.53
7:DO:39:ASP:OD1	29:DO:202:PEB:HMD1	2.03	0.53
7:HO:42:ASN:O	7:HO:46:SER:OG	2.26	0.53
20:JP:68:PRO:HA	20:JP:73:TYR:CE1	2.43	0.53
21:QP:62:TYR:OH	20:TP:77:MET:HE1	2.09	0.53
20:TP:71:ASN:ND2	20:TP:121:THR:OG1	2.42	0.53
21:UP:87:TYR:CZ	25:YP:845:LEU:HD13	2.43	0.53
23:WP:98:SER:HB2	23:WP:160:PRO:HB2	1.91	0.53
20:cP:71:ASN:ND2	20:cP:121:THR:OG1	2.42	0.53
20:eP:68:PRO:HA	20:eP:73:TYR:CE1	2.43	0.53
20:IP:89:LEU:HB2	20:IP:133:MET:HE1	1.91	0.53
20:pP:68:PRO:HA	20:pP:73:TYR:CE1	2.43	0.53
20:vP:89:LEU:HB2	20:vP:133:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CQ:2:LYS:HZ2	14:MQ:138:SER:CA	2.21	0.53
7:FQ:141:PHE:CD2	29:FQ:203:PEB:CMB	2.92	0.53
7:HQ:38:LEU:HD13	29:HQ:202:PEB:HBD1	1.90	0.53
8:eR:218:TYR:HE2	29:TR:201:PEB:HBC2	1.73	0.53
6:MR:91:ARG:HG2	6:MR:95:TYR:CE2	2.43	0.53
6:OR:28:GLN:OE1	6:OR:31:ILE:HD12	2.09	0.53
6:OR:50:ALA:O	6:OR:54:GLU:HG3	2.08	0.53
6:SR:50:ALA:O	6:SR:54:GLU:HG3	2.08	0.53
4:K1:5:ILE:HG12	4:K1:27:VAL:HG23	1.90	0.53
6:l1:135:ARG:HD2	6:l1:157:ASP:CG	2.33	0.53
9:O3:248:ILE:HG22	9:O3:250:VAL:H	1.74	0.53
6:D4:81:LYS:NZ	6:D4:85:ASP:CG	2.66	0.53
7:E4:36:LYS:HZ3	29:E4:202:PEB:C2B	2.22	0.53
6:H4:42:GLU:O	6:H4:46:GLY:N	2.42	0.53
7:K4:106:GLU:N	7:K4:106:GLU:OE2	2.41	0.53
4:K7:93:ARG:NH2	5:N7:74:TYR:OH	2.41	0.53
6:Z7:30:ASN:OD1	6:Z7:37:ARG:NH2	2.40	0.53
7:a7:52:VAL:HG21	7:a7:87:GLU:OE2	2.09	0.53
6:j7:30:ASN:OD1	6:j7:37:ARG:NH2	2.40	0.53
7:L8:44:ILE:HG23	7:L8:51:MET:HE1	1.90	0.53
7:A8:160:SER:O	7:A8:164:GLU:HB2	2.07	0.53
12:E8:185:ALA:CB	6:bF:67:LYS:HE2	2.38	0.53
4:E9:86:ARG:CA	8:eR:296:PRO:O	2.52	0.53
7:a9:52:VAL:HG21	7:a9:87:GLU:OE2	2.09	0.53
7:BA:60:ILE:HD11	7:BA:67:ILE:HB	1.91	0.53
7:BA:91:ARG:NH1	7:BA:95:TYR:OH	2.38	0.53
6:KB:48:HIS:CD2	6:KB:49:GLU:OE2	2.61	0.53
7:XB:47:ASN:OD1	7:XB:149:ARG:NH1	2.42	0.53
7:iB:85:ASP:OD2	29:iB:201:PEB:HHC1	2.08	0.53
6:AC:31:ILE:HG22	7:BC:31:ILE:HG23	1.90	0.53
7:FC:110:LEU:HD11	7:FC:172:VAL:HG13	1.91	0.53
6:GC:157:ASP:O	6:GC:161:ASN:ND2	2.42	0.53
7:LC:111:ASN:O	18:MC:211:SER:CB	2.56	0.53
10:dD:66:MET:HE3	10:dD:71:ARG:HG2	1.90	0.53
6:DD:54:GLU:OE2	6:DD:137:ARG:HD2	2.08	0.53
7:ED:106:GLU:N	7:ED:106:GLU:OE2	2.41	0.53
6:LD:131:ILE:O	6:LD:134:THR:OG1	2.22	0.53
6:LD:136:ASP:N	6:LD:136:ASP:OD1	2.40	0.53
6:IE:157:ASP:O	6:IE:161:ASN:ND2	2.42	0.53
7:JE:47:ASN:OD1	7:JE:149:ARG:NH1	2.42	0.53
7:LE:10:VAL:HG21	18:ME:258:THR:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LE:47:ASN:OD1	7:LE:149:ARG:NH1	2.42	0.53
3:BF:222:LEU:CD1	3:BF:225:VAL:HG11	2.39	0.53
5:DF:106:ASP:OD2	5:DF:166:ARG:NH1	2.42	0.53
5:LF:71:GLY:HA2	27:3P:111:MET:CG	2.38	0.53
6:bF:87:ASP:OD1	7:cF:18:TYR:OH	2.25	0.53
6:AG:157:ASP:CB	7:DG:46:SER:HA	2.35	0.53
7:FG:57:SER:CA	7:FG:60:ILE:HG22	2.38	0.53
7:JG:38:LEU:HD13	29:JG:202:PEB:HBD1	1.90	0.53
3:BI:169:GLN:HG2	5:LI:77:ARG:NH2	2.24	0.53
5:FI:106:ASP:OD2	5:FI:166:ARG:NH1	2.42	0.53
4:II:3:THR:O	4:II:7:GLU:HG2	2.09	0.53
6:AJ:138:LEU:O	6:AJ:138:LEU:HD23	2.08	0.53
7:FJ:125:ASN:ND2	7:XJ:70:GLY:HA2	2.24	0.53
7:fJ:125:ASN:N	7:fJ:125:ASN:OD1	2.41	0.53
6:sJ:16:GLY:CA	16:xJ:89:GLY:O	2.54	0.53
16:xJ:105:ARG:HG2	29:xJ:303:PEB:O1B	2.09	0.53
16:xJ:112:ARG:NH1	16:xJ:120:ASP:OD2	2.41	0.53
1:XK:236:LYS:HB2	1:XK:243:GLN:HG2	1.91	0.53
4:GK:4:PRO:HD3	4:IK:22:THR:HG23	1.90	0.53
5:JK:17:GLU:HG3	15:bM:335:ILE:HB	1.89	0.53
7:iK:129:ARG:NH1	7:iK:132[A]:SER:OG	2.41	0.53
6:IL:147:GLN:CG	29:IL:203:PEB:HMC2	2.39	0.53
6:gL:137:ARG:NH1	6:gL:137:ARG:O	2.42	0.53
6:sL:137:ARG:O	6:sL:137:ARG:NH1	2.42	0.53
17:BM:182:GLU:HB3	29:BM:301:PEB:CMD	2.33	0.53
6:EM:34:SER:HA	6:EM:37:ARG:HG2	1.90	0.53
7:TM:47:ASN:OD1	7:TM:149:ARG:NH1	2.42	0.53
7:ZM:47:ASN:OD1	7:ZM:149:ARG:NH1	2.42	0.53
6:lM:53:LYS:HE2	6:lM:53:LYS:HA	1.90	0.53
6:IN:122:LEU:HD22	29:IN:201:PEB:HNA	1.73	0.53
6:KO:54:GLU:OE2	29:KO:202:PEB:HMC1	2.02	0.53
21:QP:19:LEU:HD13	20:RP:97:ILE:HD12	1.90	0.53
22:VP:76:ARG:O	22:VP:80:LEU:HD12	2.08	0.53
22:VP:154:ASP:OD2	23:WP:46:LYS:HG3	2.09	0.53
20:iP:68:PRO:HA	20:iP:73:TYR:CE1	2.43	0.53
23:yP:98:SER:HB2	23:yP:160:PRO:HB2	1.91	0.53
23:yP:124:SER:HB2	25:1P:10:PRO:O	2.08	0.53
25:1P:234:ASP:OD1	25:1P:250:PRO:HA	2.08	0.53
7:BQ:38:LEU:HD13	29:BQ:202:PEB:HBD1	1.90	0.53
7:BQ:77:ARG:NH1	14:MQ:197:TYR:CD2	2.77	0.53
6:CQ:115:GLU:HB2	7:HQ:83:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EQ:159:LEU:O	6:EQ:163:LEU:HB2	2.08	0.53
7:HQ:111:ASN:O	14:MQ:298:ARG:NH1	2.28	0.53
7:JQ:38:LEU:HD13	29:JQ:202:PEB:HBD1	1.90	0.53
7:PR:110:LEU:HD11	7:PR:172:VAL:HG22	1.91	0.53
6:QR:87:ASP:OD1	7:RR:18:TYR:OH	2.25	0.53
6:SR:116:VAL:HG13	6:SR:120:LEU:CD1	2.38	0.53
3:B1:226:GLN:HE21	3:B1:226:GLN:HA	1.73	0.53
4:M1:5:ILE:HG12	4:M1:27:VAL:HG23	1.90	0.53
6:h1:135:ARG:HD2	6:h1:157:ASP:CG	2.34	0.53
8:e2:279:ILE:HG13	8:e2:280:SER:H	1.74	0.53
7:N2:84:ARG:O	7:N2:87:GLU:N	2.37	0.53
6:O2:28:GLN:OE1	6:O2:31:ILE:HD12	2.09	0.53
6:U2:17:ARG:HH22	6:W2:2:LYS:HD3	1.74	0.53
6:W2:133:TYR:O	6:W2:136:ASP:OD1	2.27	0.53
7:C4:9:VAL:O	7:C4:12:SER:OG	2.19	0.53
7:E4:37:ARG:NH2	7:E4:100:GLY:HA2	2.23	0.53
7:K4:36:LYS:HZ3	29:K4:202:PEB:C2B	2.21	0.53
7:F5:54:ASP:OD2	7:F5:137:GLN:NE2	2.42	0.53
7:G5:44:ILE:HG23	7:G5:51:MET:HE1	1.90	0.53
13:k6:220:GLU:HB3	4:E7:79:ILE:CD1	2.38	0.53
3:B7:197:PHE:HB2	21:QP:50:THR:CB	2.38	0.53
4:K9:45:THR:HG22	20:vP:63:PRO:HB2	1.91	0.53
6:Q9:145:SER:OG	6:Q9:146:ALA:N	2.39	0.53
7:V9:145:THR:HG22	13:kH:61:ARG:O	2.08	0.53
7:DA:53:SER:HB3	6:KA:119:THR:O	2.09	0.53
6:CB:6:THR:HG22	7:DB:1:MET:CG	2.39	0.53
6:CB:34:SER:HA	6:CB:37:ARG:HG2	1.90	0.53
6:GB:34:SER:HA	6:GB:37:ARG:HG2	1.90	0.53
6:GB:106:ASP:OD2	6:IB:17:ARG:NH1	2.41	0.53
7:LB:47:ASN:OD1	7:LB:149:ARG:NH1	2.42	0.53
7:TB:47:ASN:OD1	7:TB:149:ARG:NH1	2.42	0.53
7:kB:85:ASP:OD2	29:kB:201:PEB:CHC	2.45	0.53
7:BC:47:ASN:OD1	7:BC:149:ARG:NH1	2.42	0.53
7:CD:37:ARG:NH2	7:CD:100:GLY:HA2	2.23	0.53
6:DD:44:LEU:HD23	6:DD:94:ASN:HB2	1.91	0.53
6:DD:136:ASP:N	6:DD:136:ASP:OD1	2.40	0.53
6:FD:42:GLU:O	6:FD:46:GLY:N	2.42	0.53
7:MD:106:GLU:OE2	7:MD:106:GLU:N	2.41	0.53
6:IE:14:ALA:CA	18:ME:51:PRO:HD3	2.38	0.53
1:XF:204:THR:OG1	7:PF:84:ARG:NH1	2.41	0.53
5:HF:41:VAL:HG21	5:HF:98:ILE:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:141:PHE:HZ	29:FG:203:PEB:C2A	2.17	0.53
6:IG:124:THR:HA	6:IG:127:TYR:HD2	1.72	0.53
5:DI:41:VAL:HG21	5:DI:98:ILE:CG2	2.38	0.53
5:JI:106:ASP:OD2	5:JI:166:ARG:NH1	2.42	0.53
6:bI:87:ASP:OD1	7:cI:18:TYR:OH	2.25	0.53
7:FJ:25:GLN:HA	7:FJ:28:LYS:HB2	1.90	0.53
6:IJ:147:GLN:CG	29:IJ:203:PEB:HMC2	2.39	0.53
6:UJ:63:TYR:HB3	6:UJ:66:LEU:CD1	2.38	0.53
6:gJ:137:ARG:NH1	6:gJ:137:ARG:O	2.42	0.53
6:mJ:68:ASN:CG	6:mJ:71:GLU:OE2	2.48	0.53
6:oJ:137:ARG:O	6:oJ:137:ARG:NH1	2.42	0.53
6:qJ:91:ARG:HA	7:rJ:18:TYR:CE2	2.44	0.53
5:FK:165:ASP:OD1	5:FK:165:ASP:N	2.40	0.53
6:OK:5:ILE:CB	7:PK:3:ASP:OD2	2.56	0.53
6:GL:137:ARG:NH1	6:GL:137:ARG:O	2.42	0.53
6:UL:137:ARG:NH1	6:UL:137:ARG:O	2.42	0.53
6:cL:74:GLU:H	6:cL:78:LYS:HG3	1.73	0.53
6:oL:137:ARG:NH1	6:oL:137:ARG:O	2.42	0.53
19:zL:217:ALA:HB1	19:zL:218:PRO:CD	2.07	0.53
19:zL:332:LEU:HD23	20:NP:67:SER:HB2	1.91	0.53
15:bM:374:THR:CA	21:oP:65:ILE:HG23	2.39	0.53
7:gM:47:ASN:OD1	7:gM:149:ARG:NH1	2.42	0.53
6:lM:67:LYS:HZ3	6:OR:141:PRO:HA	1.74	0.53
7:BN:91:ARG:NH1	7:BN:95:TYR:OH	2.38	0.53
7:DN:91:ARG:NH1	7:DN:95:TYR:OH	2.38	0.53
6:EN:137:ARG:HG3	29:EN:202:PEB:HMD2	1.89	0.53
7:FN:118:ILE:O	14:MN:106:ASP:CG	2.51	0.53
6:KN:131:ILE:HD12	6:KN:159:LEU:HD22	1.83	0.53
20:KP:21:GLY:O	20:KP:25:ARG:HG2	2.08	0.53
20:KP:68:PRO:HA	20:KP:73:TYR:CE1	2.43	0.53
20:TP:68:PRO:HA	20:TP:73:TYR:CE1	2.43	0.53
21:UP:109:LEU:HD13	21:UP:159:GLY:HA3	1.91	0.53
20:gP:68:PRO:HA	20:gP:73:TYR:CE1	2.43	0.53
20:iP:71:ASN:ND2	20:iP:121:THR:OG1	2.42	0.53
20:mP:21:GLY:O	20:mP:25:ARG:HG2	2.08	0.53
28:4P:72:ILE:HD13	28:4P:194:CYS:SG	2.49	0.53
7:DQ:157:ASP:OD2	7:DQ:159:THR:OG1	2.27	0.53
6:UR:17:ARG:HH22	6:WR:2:LYS:HD3	1.74	0.53
6:UR:84:ARG:NH2	29:UR:201:PEB:O1C	2.38	0.53
6:O2:114:ARG:HB3	6:O2:118:ARG:NH2	2.22	0.53
7:X2:51:MET:HA	7:X2:137:GLN:HE22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B4:17:ARG:CB	6:B4:17:ARG:CZ	2.86	0.53
6:D4:96:CYS:HB3	6:D4:155:TYR:CE1	2.44	0.53
6:F4:96:CYS:HB3	6:F4:155:TYR:CE1	2.44	0.53
7:I4:106:GLU:OE2	7:I4:106:GLU:N	2.41	0.53
29:I4:203:PEB:C4D	29:I4:203:PEB:CMC	2.85	0.53
6:J4:68:ASN:HB2	6:J4:71:GLU:HG2	1.91	0.53
7:K4:53:SER:OG	7:K4:54:ASP:N	2.41	0.53
7:F5:44:ILE:HG23	7:F5:51:MET:HE1	1.90	0.53
7:K5:108:ARG:HH21	27:aP:278:GLU:HG2	1.74	0.53
7:k7:35:ASN:ND2	29:k7:202:PEB:OD	2.42	0.53
7:I8:72:MEN:HD2	7:I8:78:ARG:HE	1.55	0.53
7:K8:36:LYS:HB2	7:K8:161:LEU:HD11	1.91	0.53
4:G9:142:LEU:HD13	4:G9:146:VAL:HG12	1.91	0.53
6:l9:17:ARG:O	7:m9:95:TYR:OH	2.20	0.53
7:m9:35:ASN:ND2	29:m9:202:PEB:OD	2.42	0.53
15:bB:358:LEU:HD23	20:KP:75:GLU:CD	2.33	0.53
7:PB:47:ASN:OD1	7:PB:149:ARG:NH1	2.42	0.53
7:mB:47:ASN:OD1	7:mB:149:ARG:NH1	2.42	0.53
6:IC:89:TYR:HH	6:IC:117:TYR:HH	1.57	0.53
18:MC:61:VAL:HA	18:MC:98:LEU:HD22	1.91	0.53
18:MC:167:SER:HA	18:MC:170:ASP:HB2	1.91	0.53
10:dD:291:ILE:HG22	4:EI:49:GLN:CG	2.38	0.53
6:FD:136:ASP:OD1	6:FD:136:ASP:N	2.40	0.53
6:LD:113:ALA:O	6:LD:116:VAL:HG22	2.08	0.53
29:BE:202:PEB:CBD	6:CE:33:ARG:HD2	2.39	0.53
5:HF:14:ALA:O	7:YF:125:ASN:ND2	2.41	0.53
5:HF:106:ASP:OD2	5:HF:166:ARG:NH1	2.42	0.53
5:JF:22:THR:OG1	27:3P:92:PRO:CG	2.56	0.53
5:JF:106:ASP:OD2	5:JF:166:ARG:NH1	2.42	0.53
6:jF:17:ARG:NH2	6:lF:158:TYR:OH	2.39	0.53
6:AG:93:VAL:HG11	6:AG:156:LEU:HG	1.91	0.53
7:JG:154:ALA:O	29:JG:202:PEB:NA	2.32	0.53
14:MG:185:LYS:O	14:MG:189:LYS:NZ	2.41	0.53
13:kH:211:PRO:HB2	13:kH:212:PRO:HD3	1.90	0.53
3:BI:166:ILE:HG22	3:BI:173:GLY:HA3	1.91	0.53
3:BI:169:GLN:HG3	5:LI:78:ARG:HH11	1.73	0.53
29:FI:1002:PEB:CMC	4:KI:145:GLN:NE2	2.71	0.53
6:OI:6:THR:HA	7:PI:1:MET:HE3	1.90	0.53
7:PI:107:ASP:OD1	7:PI:107:ASP:N	2.36	0.53
6:CJ:73:GLY:HA2	6:CJ:78:LYS:CB	2.37	0.53
6:OJ:137:ARG:NH1	6:OJ:137:ARG:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:QJ:45:ALA:C	6:QJ:48:HIS:HD1	2.16	0.53
6:UJ:33:ARG:NE	6:WJ:25:GLU:HG2	2.24	0.53
6:UJ:137:ARG:NH1	6:UJ:137:ARG:O	2.42	0.53
6:iJ:137:ARG:NH1	6:iJ:137:ARG:O	2.42	0.53
29:pJ:202:PEB:C3D	6:qJ:33:ARG:NH1	2.72	0.53
6:uJ:137:ARG:NH1	6:uJ:137:ARG:O	2.42	0.53
5:JK:17:GLU:N	5:JK:17:GLU:OE2	2.39	0.53
5:JK:77:ARG:HB2	4:MK:113:ALA:O	2.08	0.53
7:FL:128:ILE:HD11	7:FL:173:GLY:O	2.09	0.53
7:PL:19:VAL:HG22	7:PL:19:VAL:O	2.08	0.53
6:SL:137:ARG:NH1	6:SL:137:ARG:O	2.42	0.53
7:jL:125:ASN:N	7:jL:125:ASN:OD1	2.41	0.53
6:mL:137:ARG:NH1	6:mL:137:ARG:O	2.42	0.53
7:pL:110:LEU:HD21	7:pL:172:VAL:HG13	1.91	0.53
16:wL:168:VAL:CG1	16:xL:47:ARG:HH11	2.16	0.53
6:WM:34:SER:HA	6:WM:37:ARG:HG2	1.90	0.53
7:eM:47:ASN:OD1	7:eM:149:ARG:NH1	2.42	0.53
7:eM:63:ASN:C	7:eM:65:GLY:N	2.63	0.53
6:fM:34:SER:HA	6:fM:37:ARG:HG2	1.90	0.53
7:mM:58:GLY:O	7:mM:62:GLU:HG3	2.09	0.53
6:KN:15:ALA:C	14:MN:247:LYS:HG3	2.34	0.53
7:FO:177:SER:HB3	9:OO:335:LYS:HE3	1.90	0.53
20:CP:71:ASN:ND2	20:CP:121:THR:OG1	2.42	0.53
20:KP:102:THR:HG22	28:bP:50:TYR:HD2	1.74	0.53
21:OP:109:LEU:HD13	21:OP:159:GLY:HA3	1.91	0.53
25:YP:757:SER:OG	25:YP:760:GLU:HG3	2.08	0.53
21:dP:38:VAL:CG1	20:eP:23:LEU:HB3	2.38	0.53
21:uP:34:GLY:HA3	20:vP:30:VAL:HG11	1.91	0.53
25:1P:861:THR:HG22	25:1P:862:LYS:HG3	1.91	0.53
28:4P:62:TYR:O	28:4P:65:LYS:NZ	2.41	0.53
6:MR:28:GLN:OE1	6:MR:31:ILE:HD12	2.09	0.53
6:MR:44:LEU:N	29:MR:202:PEB:HBD2	2.24	0.53
6:OR:115:GLU:CA	6:OR:118:ARG:NH2	2.72	0.53
6:UR:28:GLN:OE1	6:UR:31:ILE:HD12	2.09	0.53
6:W1:53:LYS:HD3	6:W1:53:LYS:N	2.23	0.53
6:b1:135:ARG:HD2	6:b1:157:ASP:CG	2.34	0.53
6:M2:50:ALA:O	6:M2:54:GLU:HG3	2.08	0.53
6:O2:115:GLU:CA	6:O2:118:ARG:NH2	2.72	0.53
7:P2:110:LEU:HD11	7:P2:172:VAL:HG22	1.91	0.53
7:R2:49:SER:OG	6:S2:161:ASN:OD1	2.24	0.53
6:U2:137:ARG:NH2	29:U2:202:PEB:O2B	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B3:75:THR:OG1	7:B3:76:ASN:N	2.41	0.53
6:B4:96:CYS:HB3	6:B4:155:TYR:CE1	2.44	0.53
7:C4:58:GLY:CA	29:C4:203:PEB:HMD2	2.37	0.53
6:F4:42:GLU:O	6:F4:46:GLY:N	2.42	0.53
6:F4:68:ASN:HB2	6:F4:71:GLU:HG2	1.91	0.53
6:F4:92:LEU:HD21	6:F4:108:TRP:HB2	1.89	0.53
6:H4:96:CYS:HB3	6:H4:155:TYR:CE1	2.44	0.53
6:L4:44:LEU:HD23	6:L4:94:ASN:HB2	1.91	0.53
12:E5:233:TYR:OH	29:I9:202:PEB:HMA1	2.09	0.53
4:C7:142:LEU:HD13	4:C7:146:VAL:HG12	1.91	0.53
4:E7:142:LEU:HD13	4:E7:146:VAL:HG12	1.91	0.53
5:J7:107:ASP:OD1	26:2P:55:PRO:CG	2.56	0.53
6:S7:54:GLU:HG2	6:S7:133:TYR:CE2	2.32	0.53
7:e7:35:ASN:ND2	29:e7:202:PEB:OD	2.42	0.53
7:B8:54:ASP:OD2	7:B8:137:GLN:NE2	2.42	0.53
7:I8:27:LEU:HD23	19:zJ:298:ALA:CB	2.39	0.53
3:B9:149:GLU:O	3:B9:153:ASN:ND2	2.38	0.53
3:B9:169:GLN:HE22	5:J9:77:ARG:CB	2.22	0.53
5:F9:69:PRO:HA	5:F9:74:TYR:CG	2.44	0.53
4:M9:142:LEU:HD13	4:M9:146:VAL:HG12	1.91	0.53
29:FA:201:PEB:HAC1	14:MA:177:SER:OG	2.08	0.53
7:JA:60:ILE:HD11	7:JA:67:ILE:HB	1.90	0.53
7:JA:75:THR:OG1	7:JA:76:ASN:N	2.41	0.53
6:KA:111:ALA:CB	14:MA:269:GLU:HG2	2.37	0.53
6:SB:9:VAL:HG13	7:TB:95:TYR:CD1	2.44	0.53
7:VB:47:ASN:OD1	7:VB:149:ARG:NH1	2.42	0.53
6:WB:34:SER:HA	6:WB:37:ARG:HG2	1.90	0.53
7:XB:58:GLY:O	7:XB:62:GLU:HG3	2.09	0.53
7:cB:47:ASN:OD1	7:cB:149:ARG:NH1	2.42	0.53
6:jB:33:ARG:CZ	6:jB:147:GLN:HG3	2.39	0.53
6:CC:157:ASP:O	6:CC:161:ASN:ND2	2.42	0.53
7:HC:47:ASN:OD1	7:HC:149:ARG:NH1	2.42	0.53
7:HC:110:LEU:HD11	7:HC:172:VAL:HG13	1.91	0.53
6:IC:14:ALA:CA	18:MC:51:PRO:HD3	2.36	0.53
6:KC:16:GLY:HA3	18:MC:70:LYS:NZ	2.23	0.53
7:LC:47:ASN:OD1	7:LC:149:ARG:NH1	2.42	0.53
6:BD:96:CYS:HB3	6:BD:155:TYR:CE1	2.44	0.53
7:CD:106:GLU:N	7:CD:106:GLU:OE2	2.41	0.53
6:DD:96:CYS:HB3	6:DD:155:TYR:CE1	2.44	0.53
6:DD:113:ALA:HB2	7:ID:76:ASN:ND2	2.23	0.53
7:GD:58:GLY:HA3	29:GD:203:PEB:C2D	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GD:160:SER:O	7:GD:164:GLU:HG3	2.08	0.53
7:BE:110:LEU:HD11	7:BE:172:VAL:HG13	1.91	0.53
6:CE:157:ASP:O	6:CE:161:ASN:ND2	2.42	0.53
7:DE:47:ASN:OD1	7:DE:149:ARG:NH1	2.42	0.53
6:KE:157:ASP:O	6:KE:161:ASN:ND2	2.42	0.53
3:BF:204:ARG:HH12	21:uP:57:ALA:CB	2.11	0.53
3:BF:210:GLU:CA	27:3P:71:VAL:CG2	2.87	0.53
4:GF:3:THR:O	4:GF:7:GLU:HG2	2.08	0.53
7:LG:112:GLY:CA	14:MG:232:LYS:HG2	2.39	0.53
14:MG:250:ILE:HG12	14:MG:255:TYR:HA	1.91	0.53
1:XI:154:ARG:HD2	1:XI:208:LEU:HD11	1.90	0.53
5:NI:41:VAL:HG11	5:NI:98:ILE:CG2	2.39	0.53
5:NI:106:ASP:OD2	5:NI:166:ARG:NH1	2.42	0.53
7:DJ:110:LEU:HD21	7:DJ:172:VAL:HG13	1.91	0.53
7:HJ:122:VAL:HG13	29:zJ:501:PEB:C1A	2.39	0.53
7:LJ:125:ASN:N	7:LJ:125:ASN:OD1	2.41	0.53
7:PJ:117:TYR:O	7:PJ:120:LEU:N	2.41	0.53
6:SJ:137:ARG:NH1	6:SJ:137:ARG:O	2.42	0.53
6:UJ:70:GLY:CA	6:UJ:74:GLU:HG2	2.39	0.53
6:YJ:33:ARG:NE	6:YJ:151:GLU:OE2	2.42	0.53
6:aJ:137:ARG:NH1	6:aJ:137:ARG:O	2.42	0.53
7:bJ:110:LEU:HD21	7:bJ:172:VAL:HG13	1.91	0.53
6:mJ:137:ARG:NH1	6:mJ:137:ARG:O	2.42	0.53
6:sJ:137:ARG:O	6:sJ:137:ARG:NH1	2.42	0.53
1:XK:352:THR:HG23	31:DK:1001:CYC:HBA1	1.90	0.53
3:BK:223:ASN:HA	3:BK:226:GLN:HG3	1.91	0.53
4:CK:144:GLY:O	4:CK:148:ASN:N	2.42	0.53
4:GK:19:LEU:O	5:HK:45:THR:HG21	2.09	0.53
5:LK:36:GLN:O	5:LK:40:ILE:HD12	2.08	0.53
4:MK:93:ARG:HD3	5:NK:18:PHE:CD1	2.44	0.53
6:OK:54:GLU:O	6:OK:54:GLU:HG2	2.09	0.53
7:FL:110:LEU:HD21	7:FL:172:VAL:HG13	1.91	0.53
7:FL:145:THR:OG1	25:1P:514:ILE:CG2	2.53	0.53
6:ML:137:ARG:O	6:ML:137:ARG:NH1	2.42	0.53
6:QL:137:ARG:NH1	6:QL:137:ARG:O	2.42	0.53
7:VL:125:ASN:N	7:VL:125:ASN:OD1	2.41	0.53
6:YL:137:ARG:NH1	6:YL:137:ARG:O	2.42	0.53
7:IL:110:LEU:HD21	7:IL:172:VAL:HG13	1.91	0.53
6:mL:41:ALA:CB	7:nL:24:LEU:HD11	2.38	0.53
7:NM:25:GLN:HB2	21:oP:147:LYS:CD	2.31	0.53
6:IM:34:SER:HA	6:IM:37:ARG:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FN:60:ILE:HD11	7:FN:67:ILE:HB	1.91	0.53
20:PP:23:LEU:HD13	21:UP:42:ALA:HB2	1.91	0.53
20:PP:89:LEU:HB2	20:PP:133:MET:HE1	1.90	0.53
21:QP:67:ARG:HG2	21:QP:68:PRO:N	2.24	0.53
20:TP:21:GLY:O	20:TP:25:ARG:HG2	2.08	0.53
25:YP:270:SER:HB3	25:YP:273:GLU:OE1	2.08	0.53
28:bP:150:ALA:HB1	28:bP:199:ILE:CD1	2.39	0.53
21:hP:109:LEU:HD13	21:hP:159:GLY:HA3	1.91	0.53
20:tP:89:LEU:HB2	20:tP:133:MET:HE1	1.90	0.53
28:4P:150:ALA:HB1	28:4P:199:ILE:CD1	2.39	0.53
7:BQ:97:LEU:HD21	7:BQ:168:TYR:HD2	1.73	0.53
7:FQ:137:GLN:CD	29:FQ:203:PEB:CHA	2.76	0.53
6:GQ:93:VAL:HG11	6:GQ:156:LEU:HG	1.91	0.53
6:MR:54:GLU:CD	29:MR:202:PEB:HAC1	2.29	0.53
6:QR:25:GLU:HG2	6:SR:33:ARG:HG3	1.91	0.53
7:RR:110:LEU:HD11	7:RR:172:VAL:HG22	1.91	0.53
6:SR:9:VAL:HG21	7:TR:1:MET:HE1	1.90	0.53
3:B1:204:ARG:HD3	3:B1:204:ARG:N	2.24	0.53
4:G1:108:ASP:HA	4:G1:112:VAL:HG23	1.90	0.53
6:U1:54:GLU:HG2	6:U1:54:GLU:O	2.09	0.53
7:V1:159:THR:OG1	14:MA:103:ARG:CB	2.57	0.53
8:e2:249:TYR:CD1	29:W7:202:PEB:HMA3	2.44	0.53
6:O2:112:GLY:O	6:O2:116:VAL:HG23	2.09	0.53
6:O2:115:GLU:CD	6:O2:118:ARG:NH2	2.67	0.53
7:P2:65:GLY:O	7:P2:68:SER:OG	2.26	0.53
6:Q2:57:ASP:OD1	6:Q2:58:ALA:N	2.42	0.53
7:T2:40:ALA:O	7:T2:43:SER:OG	2.25	0.53
7:V2:134:MET:HA	7:V2:137:GLN:CD	2.33	0.53
7:F3:129:ARG:HH12	7:M3:149:ARG:HH12	1.55	0.53
10:d4:250:GLY:O	10:d4:254:THR:OG1	2.24	0.53
10:d4:331:GLN:CA	10:dD:331:GLN:HE21	2.22	0.53
6:B4:17:ARG:HD3	6:D4:2:LYS:NZ	2.23	0.53
6:D4:54:GLU:OE2	6:D4:137:ARG:HD2	2.08	0.53
6:L4:96:CYS:HB3	6:L4:155:TYR:CE1	2.44	0.53
7:B5:54:ASP:OD2	7:B5:137:GLN:NE2	2.42	0.53
29:H5:203:PEB:HMC1	29:H5:203:PEB:HMD1	1.90	0.53
7:I5:27:LEU:HB3	19:zL:294:GLY:HA3	1.91	0.53
13:k6:94:LEU:HB2	13:k6:133:ASP:OD1	2.09	0.53
4:C7:122:PHE:CE2	5:F7:83:LEU:HD11	2.44	0.53
4:E7:124:LEU:HD11	31:E7:1001:CYC:C4D	2.38	0.53
5:H7:49:SER:O	5:H7:53:THR:OG1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T7:35:ASN:ND2	29:T7:202:PEB:OD	2.42	0.53
7:I8:28:LYS:HB3	19:zJ:291:ILE:CA	2.36	0.53
1:X9:299:VAL:HG12	1:X9:360:ILE:HG12	1.91	0.53
4:G9:73:ALA:HA	31:G9:1001:CYC:HBD2	1.91	0.53
6:U9:28:GLN:HE21	29:V9:202:PEB:HBD1	1.74	0.53
6:b9:30:ASN:OD1	6:b9:37:ARG:NH2	2.40	0.53
6:AA:118:ARG:NH2	6:AA:122:LEU:O	2.42	0.53
6:GA:4:VAL:O	6:GA:7:THR:OG1	2.26	0.53
15:bB:342:TYR:CD2	15:bB:347:ALA:CA	2.82	0.53
6:EB:34:SER:HA	6:EB:37:ARG:HG2	1.90	0.53
6:IC:157:ASP:O	6:IC:161:ASN:ND2	2.42	0.53
6:KC:37:ARG:NH1	6:KC:98:VAL:O	2.42	0.53
6:DD:42:GLU:O	6:DD:46:GLY:N	2.42	0.53
6:FD:131:ILE:O	6:FD:134:THR:OG1	2.22	0.53
6:FD:155:TYR:CZ	6:HD:21:ASN:ND2	2.78	0.53
6:HD:68:ASN:HB2	6:HD:71:GLU:HG2	1.91	0.53
7:ID:37:ARG:NH2	7:ID:100:GLY:HA2	2.23	0.53
6:JD:96:CYS:HB3	6:JD:155:TYR:CE1	2.44	0.53
7:MD:136:ALA:CB	29:MD:203:PEB:CB	2.87	0.53
7:DE:110:LEU:HD11	7:DE:172:VAL:HG13	1.91	0.53
6:GE:16:GLY:HA3	18:ME:160:GLY:HA2	1.90	0.53
3:BF:126:ILE:HG22	31:Nf:1001:CYC:HAA1	1.90	0.53
4:CF:47:SER:OG	4:CF:50:ARG:NH2	2.39	0.53
4:EF:3:THR:O	4:EF:7:GLU:HG2	2.08	0.53
7:BG:38:LEU:HD13	29:BG:202:PEB:HBD1	1.90	0.53
6:CG:2:LYS:HZ3	14:MG:139:GLY:C	2.17	0.53
7:DG:21:GLY:O	7:DG:25:GLN:NE2	2.41	0.53
6:EG:93:VAL:HG11	6:EG:156:LEU:HG	1.91	0.53
7:JG:21:GLY:O	7:JG:25:GLN:NE2	2.41	0.53
7:LG:38:LEU:HD13	29:LG:202:PEB:HBD1	1.90	0.53
7:LG:157:ASP:OD2	7:LG:159:THR:OG1	2.27	0.53
13:kH:94:LEU:HB2	13:kH:133:ASP:OD1	2.09	0.53
1:XI:106:GLN:OE1	1:XI:124:LEU:HD12	2.07	0.53
4:EI:3:THR:O	4:EI:7:GLU:HG2	2.08	0.53
6:GJ:37:ARG:NH1	6:GJ:98:VAL:O	2.32	0.53
6:OJ:68:ASN:HB2	6:OJ:71:GLU:HG2	1.89	0.53
6:UJ:71:GLU:H	6:UJ:74:GLU:HG3	1.73	0.53
7:dJ:125:ASN:N	7:dJ:125:ASN:OD1	2.41	0.53
7:nJ:110:LEU:HD21	7:nJ:172:VAL:HG13	1.91	0.53
7:nJ:125:ASN:N	7:nJ:125:ASN:OD1	2.41	0.53
3:BK:108:GLU:HB2	3:BK:125:LYS:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:40:ALA:HB2	4:GK:146:VAL:CG1	2.36	0.53
4:IK:5:ILE:HG12	4:IK:27:VAL:HG23	1.90	0.53
5:JK:22:THR:HG22	15:bM:331:ALA:HB1	1.69	0.53
4:MK:5:ILE:HG12	4:MK:27:VAL:HG23	1.90	0.53
7:JL:110:LEU:HD21	7:JL:172:VAL:HG13	1.91	0.53
6:ML:43:LYS:CB	6:ML:144:MET:CE	2.87	0.53
6:SL:40:ALA:HB2	6:SL:148:ALA:HB1	1.90	0.53
6:YL:147:GLN:OE1	29:bL:202:PEB:CMC	2.52	0.53
6:gL:49:GLU:H	6:gL:49:GLU:CD	2.15	0.53
6:qL:91:ARG:HA	7:rL:18:TYR:CE2	2.44	0.53
16:wL:176:TYR:CG	16:xL:39:LEU:CD1	2.86	0.53
19:zL:227:ARG:HB2	19:zL:253:ILE:HD11	1.91	0.53
19:zL:332:LEU:HD22	20:NP:63:PRO:C	2.23	0.53
19:zL:363:ARG:N	21:LP:62:TYR:CD2	2.71	0.53
15:bM:206:SER:O	15:bM:210:GLN:HG3	2.09	0.53
7:FM:47:ASN:OD1	7:FM:149:ARG:NH1	2.42	0.53
7:FM:139:VAL:HG12	7:FM:162:ALA:HB1	1.91	0.53
6:IM:34:SER:HA	6:IM:37:ARG:HG2	1.90	0.53
6:QM:54:GLU:O	6:QM:57:ASP:OD1	2.27	0.53
7:cM:58:GLY:O	7:cM:62:GLU:HG3	2.09	0.53
20:EP:64:ASP:OD1	20:EP:64:ASP:N	2.42	0.53
21:HP:109:LEU:HD13	21:HP:159:GLY:HA3	1.91	0.53
21:IP:131:GLN:OE1	25:YP:663:LYS:CE	2.57	0.53
21:LP:109:LEU:HD13	21:LP:159:GLY:HA3	1.91	0.53
21:OP:83:ARG:HD2	24:XP:87:LEU:HD13	1.89	0.53
21:QP:64:ASP:OD1	21:QP:67:ARG:CD	2.53	0.53
25:YP:30:GLN:OE1	25:YP:261:GLN:HG2	2.08	0.53
25:YP:36:GLU:N	25:YP:39:GLU:OE1	2.42	0.53
20:iP:113:LYS:NZ	24:zP:49:ALA:O	2.33	0.53
21:jP:14:VAL:HG22	23:yP:72:ASN:HA	1.91	0.53
21:kP:87:TYR:OH	25:1P:365:SER:OG	2.24	0.53
21:oP:109:LEU:HD13	21:oP:159:GLY:HA3	1.91	0.53
21:oP:147:LYS:HD3	21:oP:147:LYS:C	2.34	0.53
21:sP:57:ALA:HA	21:sP:61:LEU:HB2	1.91	0.53
6:AQ:93:VAL:HG11	6:AQ:156:LEU:HG	1.91	0.53
7:FQ:54:ASP:CB	29:FQ:203:PEB:HBA2	2.35	0.53
8:eR:64:LEU:CD1	7:TR:77:ARG:HH12	2.17	0.53
6:QR:28:GLN:OE1	6:QR:31:ILE:HD12	2.09	0.53
6:SR:72:ALA:HB3	29:SR:201:PEB:OA	2.09	0.53
7:XR:75:THR:HG23	7:XR:77:ARG:H	1.73	0.53
6:M2:28:GLN:OE1	6:M2:31:ILE:HD12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M2:142:ARG:CZ	29:M2:202:PEB:HHA1	2.39	0.52
6:O2:75:ASN:CB	7:L5:76:ASN:HD21	2.20	0.52
7:V2:110:LEU:HD11	7:V2:172:VAL:HG22	1.91	0.52
6:W2:28:GLN:OE1	6:W2:31:ILE:HD12	2.09	0.52
7:L3:164:GLU:HA	7:K5:79:MET:HE1	1.90	0.52
10:d4:331:GLN:NE2	10:dD:334:LYS:CB	2.72	0.52
10:d4:334:LYS:NZ	10:d4:337:ARG:HH11	2.07	0.52
6:B4:2:LYS:NZ	6:D4:17:ARG:HH11	2.07	0.52
6:B4:68:ASN:HB2	6:B4:71:GLU:HG2	1.91	0.52
6:D4:115:GLU:HA	6:D4:118:ARG:NE	2.18	0.52
7:G4:37:ARG:NH2	7:G4:100:GLY:HA2	2.23	0.52
7:M4:124:THR:HG23	6:UF:69:PRO:HG2	1.91	0.52
7:L5:44:ILE:HG23	7:L5:51:MET:HE1	1.89	0.52
7:L5:92:TYR:OH	7:L5:108:ARG:NE	2.41	0.52
3:B7:187:GLU:H	3:B7:187:GLU:CD	2.16	0.52
4:K7:142:LEU:HD13	4:K7:146:VAL:HG12	1.91	0.52
7:Y7:39:ASP:OD2	29:Y7:202:PEB:NB	2.42	0.52
7:H8:54:ASP:OD2	7:H8:137:GLN:NE2	2.42	0.52
7:L8:54:ASP:OD2	7:L8:137:GLN:NE2	2.42	0.52
7:C8:40:ALA:HB2	7:C8:161:LEU:CD1	2.34	0.52
6:f9:145:SER:OG	6:f9:146:ALA:N	2.39	0.52
7:k9:39:ASP:OD2	29:k9:202:PEB:NB	2.43	0.52
6:GA:122:LEU:HD22	29:GA:201:PEB:HNA	1.73	0.52
7:JA:108:ARG:NH1	14:MA:257:THR:HG22	2.24	0.52
15:bB:112:SER:OG	15:bB:189:ASP:O	2.27	0.52
7:HB:47:ASN:OD1	7:HB:149:ARG:NH1	2.42	0.52
7:JB:147:THR:OG1	29:JB:203:PEB:O2B	2.25	0.52
7:ZB:47:ASN:OD1	7:ZB:149:ARG:NH1	2.42	0.52
6:aB:34:SER:HA	6:aB:37:ARG:HG2	1.90	0.52
6:AC:157:ASP:O	6:AC:161:ASN:ND2	2.42	0.52
6:GC:37:ARG:NH1	6:GC:98:VAL:O	2.42	0.52
7:JC:47:ASN:OD1	7:JC:149:ARG:NH1	2.42	0.52
18:MC:61:VAL:HG11	18:MC:98:LEU:O	2.09	0.52
10:dD:81:GLN:O	10:dD:84:GLY:N	2.34	0.52
6:FD:68:ASN:HB2	6:FD:71:GLU:HG2	1.91	0.52
6:FD:81:LYS:HD2	6:FD:84:ARG:CG	2.33	0.52
6:HD:24:LEU:HD13	7:ID:38:LEU:HD22	1.91	0.52
6:HD:42:GLU:O	6:HD:46:GLY:N	2.42	0.52
6:HD:137:ARG:NH1	29:HD:202:PEB:O1B	2.43	0.52
6:LD:13:ASP:OD2	7:MD:92:TYR:HE1	1.92	0.52
7:MD:124:THR:CB	6:UI:69:PRO:CG	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DE:73:CYS:CB	7:DE:79:MET:SD	2.88	0.52
6:EE:37:ARG:NH1	6:EE:98:VAL:O	2.42	0.52
7:FE:47:ASN:OD1	7:FE:149:ARG:NH1	2.42	0.52
18:ME:124:PRO:O	18:ME:216:ARG:NH1	2.42	0.52
5:LF:71:GLY:HA2	27:3P:111:MET:HG3	1.91	0.52
6:OF:140:VAL:CG2	6:OF:141:PRO:HD3	2.39	0.52
6:bF:140:VAL:CG2	6:bF:141:PRO:HD3	2.39	0.52
7:kF:1:MET:CE	7:kF:104:VAL:HG23	2.28	0.52
6:AG:37:ARG:HG3	6:AG:38:LEU:HG	1.90	0.52
7:LG:47:ASN:O	7:LG:51:MET:N	2.42	0.52
13:kH:283:LYS:C	13:kH:284:LEU:HD22	2.33	0.52
2:AI:186:PRO:HB2	2:AI:192:GLU:HG3	1.90	0.52
4:GI:100:VAL:HG11	5:HI:27:LEU:HD13	1.91	0.52
6:OI:140:VAL:CG2	6:OI:141:PRO:HD3	2.39	0.52
7:PJ:110:LEU:HD21	7:PJ:172:VAL:HG13	1.91	0.52
6:QJ:53:LYS:HB2	6:QJ:53:LYS:HZ3	1.74	0.52
7:TJ:125:ASN:OD1	7:TJ:125:ASN:N	2.41	0.52
6:YJ:137:ARG:NH1	6:YJ:137:ARG:O	2.42	0.52
7:hJ:110:LEU:HD21	7:hJ:172:VAL:HG13	1.91	0.52
7:hJ:120:LEU:HD21	16:xJ:46:ALA:CB	2.38	0.52
6:kJ:116:VAL:HG21	7:tJ:79:MET:HB3	1.89	0.52
6:oJ:10:SER:HB3	7:pJ:108:ARG:HH22	1.73	0.52
6:oJ:95:TYR:OH	7:pJ:17:ALA:O	2.19	0.52
7:tJ:110:LEU:HD21	7:tJ:172:VAL:HG13	1.91	0.52
19:zJ:227:ARG:HB2	19:zJ:253:ILE:HD11	1.91	0.52
3:BK:57:GLU:HB3	5:LK:84:ARG:HD2	1.91	0.52
3:BK:227:GLU:HG3	20:cP:52:LYS:CE	2.32	0.52
4:CK:5:ILE:HG12	4:CK:27:VAL:HG23	1.90	0.52
5:DK:58:ALA:O	5:DK:62:GLU:OE1	2.27	0.52
5:HK:165:ASP:N	5:HK:165:ASP:OD1	2.40	0.52
5:JK:40:ILE:CG2	5:JK:41:VAL:N	2.71	0.52
5:NK:39:ASP:OD1	29:NK:1002:PEB:HMD1	2.10	0.52
6:CL:73:GLY:HA2	6:CL:78:LYS:CB	2.37	0.52
7:LL:26:ALA:C	28:bP:228:ILE:HG23	2.33	0.52
6:OL:137:ARG:O	6:OL:137:ARG:NH1	2.42	0.52
6:WL:137:ARG:NH1	6:WL:137:ARG:O	2.42	0.52
6:aL:43:LYS:CE	6:aL:143:ASP:O	2.56	0.52
6:eL:137:ARG:NH1	6:eL:137:ARG:O	2.42	0.52
6:mL:19:PRO:O	7:nL:45:VAL:HG21	2.09	0.52
7:nL:125:ASN:N	7:nL:125:ASN:OD1	2.41	0.52
16:wL:105:ARG:HG2	29:wL:303:PEB:O1B	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:265:ALA:O	16:wL:267:ARG:NH2	2.43	0.52
15:bM:121:ALA:O	15:bM:170:TYR:OH	2.23	0.52
6:hM:34:SER:HA	6:hM:37:ARG:HG2	1.90	0.52
6:lM:57:ASP:C	6:lM:59:CYS:N	2.65	0.52
6:CN:4:VAL:O	6:CN:7:THR:OG1	2.26	0.52
6:CN:122:LEU:HD22	29:CN:201:PEB:HNA	1.73	0.52
6:GN:137:ARG:HG3	29:GN:202:PEB:HMD2	1.89	0.52
7:HN:91:ARG:NH1	7:HN:95:TYR:OH	2.38	0.52
7:JN:60:ILE:HD11	7:JN:67:ILE:HB	1.90	0.52
20:EP:71:ASN:ND2	20:EP:121:THR:OG1	2.42	0.52
21:HP:72:MET:HA	21:HP:77:ARG:HB3	1.92	0.52
21:SP:10:ASN:OD1	27:3P:38:TYR:HA	2.09	0.52
24:XP:111:MET:HE1	25:YP:383:SER:HB2	1.91	0.52
20:eP:71:ASN:ND2	20:eP:121:THR:OG1	2.42	0.52
21:kP:19:LEU:HD13	20:lP:97:ILE:HD12	1.91	0.52
20:rP:71:ASN:ND2	20:rP:121:THR:OG1	2.42	0.52
20:rP:89:LEU:HB2	20:rP:133:MET:HE1	1.90	0.52
20:vP:32:SER:HB2	27:3P:153:PHE:CG	2.44	0.52
20:vP:32:SER:CB	27:3P:153:PHE:HA	2.39	0.52
25:1P:30:GLN:OE1	25:1P:261:GLN:HG2	2.08	0.52
25:1P:282:TYR:OH	25:1P:302:GLU:OE2	2.18	0.52
6:CQ:2:LYS:HD2	14:MQ:138:SER:OG	2.08	0.52
8:eR:145:SER:HA	8:eR:149:GLN:CG	2.35	0.52
6:QR:50:ALA:O	6:QR:54:GLU:HG3	2.08	0.52
1:X1:236:LYS:HB2	1:X1:243:GLN:HG2	1.91	0.52
4:E1:112:VAL:CG1	4:E1:113:ALA:N	2.44	0.52
5:N1:165:ASP:N	5:N1:165:ASP:OD1	2.40	0.52
7:P2:133:ILE:HG23	29:P2:202:PEB:HBC2	1.92	0.52
10:d4:156:SER:CA	29:E4:201:PEB:O1C	2.57	0.52
6:D4:113:ALA:HB2	7:I4:76:ASN:ND2	2.23	0.52
7:G4:58:GLY:HA2	29:G4:203:PEB:CMD	2.29	0.52
6:H4:24:LEU:HD13	7:I4:38:LEU:HD22	1.91	0.52
6:H4:44:LEU:HD23	6:H4:94:ASN:HB2	1.91	0.52
6:J4:44:LEU:HD23	6:J4:94:ASN:HB2	1.91	0.52
6:L4:13:ASP:OD2	7:M4:92:TYR:HE1	1.92	0.52
6:J5:150:VAL:CG1	7:LL:157:ASP:HB2	2.39	0.52
11:D5:219:TYR:CG	5:HK:152:ASP:HB2	2.43	0.52
5:F7:18:PHE:CD1	5:F7:18:PHE:N	2.78	0.52
5:F7:25:ASP:N	5:F7:25:ASP:OD1	2.41	0.52
5:F7:69:PRO:HA	5:F7:74:TYR:CG	2.44	0.52
4:K7:48:ALA:HB1	20:TP:68:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K7:57:GLN:NE2	5:JF:145:THR:C	2.67	0.52
7:P7:35:ASN:ND2	29:P7:202:PEB:OD	2.42	0.52
6:W7:30:ASN:OD1	6:W7:37:ARG:NH2	2.40	0.52
7:Y7:35:ASN:ND2	29:Y7:202:PEB:OD	2.42	0.52
6:b7:17:ARG:NH2	6:d7:102:THR:OG1	2.27	0.52
7:F8:54:ASP:OD2	7:F8:137:GLN:NE2	2.42	0.52
7:I8:74:TYR:CD1	15:bM:238:ARG:CZ	2.93	0.52
12:E8:88:ALA:HB1	6:ZF:141:PRO:HD3	1.91	0.52
7:V9:35:ASN:ND2	29:V9:202:PEB:OD	2.42	0.52
7:c9:35:ASN:ND2	29:c9:202:PEB:OD	2.42	0.52
6:CA:118:ARG:NH2	6:CA:122:LEU:O	2.43	0.52
6:EA:122:LEU:HD22	29:EA:201:PEB:HNA	1.73	0.52
6:GA:149:GLY:O	6:GA:153:SER:OG	2.26	0.52
7:HA:60:ILE:HD11	7:HA:67:ILE:HB	1.90	0.52
17:BB:225:VAL:HG23	6:UB:14:ALA:HA	1.90	0.52
6:CB:6:THR:CG2	7:DB:1:MET:HG3	2.39	0.52
7:NB:15:LYS:CB	21:MP:128:GLN:HE22	2.22	0.52
6:fB:6:THR:HG22	7:gB:1:MET:HE2	1.91	0.52
6:jB:34:SER:HA	6:jB:37:ARG:HG2	1.90	0.52
6:CC:157:ASP:CG	6:CC:160:ILE:HD12	2.34	0.52
6:IC:37:ARG:NH1	6:IC:98:VAL:O	2.42	0.52
18:MC:69:PHE:HA	18:MC:72:LEU:HB2	1.91	0.52
18:MC:261:VAL:CG1	6:SF:68:ASN:CG	2.83	0.52
6:BD:42:GLU:O	6:BD:46:GLY:N	2.42	0.52
6:BD:44:LEU:HD23	6:BD:94:ASN:HB2	1.91	0.52
7:CD:46:SER:HB2	6:DD:157:ASP:OD2	2.09	0.52
6:DD:16:GLY:CA	7:ED:91:ARG:HH22	2.21	0.52
6:CE:33:ARG:NH1	6:CE:147:GLN:HE22	2.07	0.52
18:ME:61:VAL:C	18:ME:65:LYS:HD3	2.34	0.52
18:ME:167:SER:HA	18:ME:170:ASP:HB2	1.91	0.52
3:BF:206:PHE:HB3	21:uP:62:TYR:CE2	2.44	0.52
5:DI:106:ASP:OD2	5:DI:166:ARG:NH1	2.42	0.52
5:HI:106:ASP:OD2	5:HI:166:ARG:NH1	2.42	0.52
6:jI:17:ARG:NH2	6:II:158:TYR:OH	2.39	0.52
7:BJ:125:ASN:OD1	7:BJ:125:ASN:N	2.41	0.52
6:EJ:137:ARG:NH1	6:EJ:137:ARG:O	2.42	0.52
7:LJ:110:LEU:HD21	7:LJ:172:VAL:HG13	1.91	0.52
6:QJ:74:GLU:N	6:QJ:78:LYS:CE	2.31	0.52
6:QJ:137:ARG:NH1	6:QJ:137:ARG:O	2.42	0.52
7:VJ:110:LEU:HD21	7:VJ:172:VAL:HG13	1.91	0.52
7:jJ:110:LEU:HD21	7:jJ:172:VAL:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:mJ:104:PRO:HG3	7:nJ:9:VAL:HG11	1.90	0.52
29:tJ:201:PEB:CBC	16:xJ:216:LEU:HB3	2.39	0.52
17:yJ:268:ASP:OD1	17:yJ:268:ASP:N	2.41	0.52
3:BK:91:ALA:HA	3:BK:94:ARG:HB2	1.90	0.52
4:EK:7:GLU:OE1	4:KK:22:THR:HG21	2.10	0.52
4:EK:10:ALA:CA	5:FK:1:MET:HE1	2.40	0.52
4:KK:40:ALA:HB2	4:KK:146:VAL:CG1	2.36	0.52
7:PL:5:PHE:CD2	7:PL:27:LEU:HD22	2.43	0.52
6:cL:138:LEU:HD12	29:cL:202:PEB:C2D	2.39	0.52
6:kL:137:ARG:NH1	6:kL:137:ARG:O	2.42	0.52
6:mL:104:PRO:HG3	7:nL:9:VAL:HG11	1.90	0.52
7:nL:110:LEU:HD21	7:nL:172:VAL:HG13	1.91	0.52
17:yL:237:ARG:HA	30:yL:302:PUB:HBD3	1.90	0.52
6:GM:106:ASP:OD2	6:IM:17:ARG:NH1	2.41	0.52
7:BN:37:ARG:NH2	7:BN:164:GLU:OE1	2.38	0.52
6:CN:21:ASN:N	6:CN:21:ASN:OD1	2.42	0.52
6:IN:118:ARG:NH2	6:IN:122:LEU:O	2.42	0.52
6:KN:4:VAL:O	6:KN:7:THR:OG1	2.26	0.52
7:LN:111:ASN:O	14:MN:236:TYR:CD1	2.62	0.52
9:OO:259:THR:HA	9:OO:262:THR:HG22	1.89	0.52
21:DP:22:ASN:HD22	23:WP:140:LYS:NZ	2.08	0.52
20:JP:89:LEU:HB2	20:JP:133:MET:HE1	1.90	0.52
25:YP:861:THR:HG22	25:YP:862:LYS:HG3	1.91	0.52
28:bP:62:TYR:O	28:bP:65:LYS:NZ	2.41	0.52
21:dP:112:LEU:HA	25:1P:479:LEU:HD12	1.90	0.52
21:hP:71:MEN:CG	21:hP:122:PRO:CD	2.86	0.52
21:kP:57:ALA:HA	21:kP:61:LEU:HB2	1.91	0.52
20:mP:64:ASP:N	20:mP:64:ASP:OD1	2.42	0.52
20:tP:13:ALA:CB	25:1P:706:LYS:HB3	2.38	0.52
7:HQ:137:GLN:HE22	29:HQ:203:PEB:CHA	2.22	0.52
6:MR:57:ASP:OD1	6:MR:58:ALA:N	2.43	0.52
7:TR:133:ILE:HG23	29:TR:203:PEB:HBC2	1.92	0.52
5:N1:39:ASP:OD1	29:N1:1002:PEB:HMD1	2.10	0.52
8:e2:249:TYR:CE1	29:W7:202:PEB:HMA2	2.44	0.52
6:Q2:28:GLN:OE1	6:Q2:31:ILE:HD12	2.09	0.52
6:Q2:116:VAL:HG13	6:Q2:120:LEU:CD1	2.38	0.52
10:d4:132:GLY:CA	7:E4:108:ARG:O	2.56	0.52
6:B4:44:LEU:HD23	6:B4:94:ASN:HB2	1.91	0.52
7:C4:39:ASP:OD1	29:C4:202:PEB:HMD3	2.10	0.52
7:E4:160:SER:O	7:E4:163:SER:OG	2.22	0.52
6:F4:44:LEU:HD23	6:F4:94:ASN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J4:113:ALA:O	6:J4:116:VAL:HG22	2.08	0.52
6:J4:115:GLU:HA	6:J4:118:ARG:NE	2.18	0.52
6:L4:42:GLU:O	6:L4:46:GLY:N	2.42	0.52
7:M4:67:ILE:O	7:M4:67:ILE:CG2	2.57	0.52
7:M4:172:VAL:O	7:M4:176:ILE:HG12	2.10	0.52
7:L5:83:LEU:HD13	13:k6:231:ALA:O	2.09	0.52
7:m7:35:ASN:ND2	29:m7:202:PEB:OD	2.42	0.52
4:C9:57:GLN:HE21	4:GI:61:ASN:HB3	1.73	0.52
4:E9:79:ILE:HD13	13:kH:220:GLU:CB	2.38	0.52
6:Q9:49:GLU:CG	4:EK:46:GLY:C	2.82	0.52
7:FA:81:ALA:CB	14:MA:174:ARG:NH2	2.73	0.52
15:bB:206:SER:O	15:bB:210:GLN:HG3	2.10	0.52
15:bB:341:ALA:O	15:bB:349:LYS:NZ	2.42	0.52
18:MC:116:ALA:O	18:MC:120:ARG:NH2	2.42	0.52
18:MC:124:PRO:O	18:MC:216:ARG:NH1	2.42	0.52
10:dD:280:SER:H	6:WI:69:PRO:HB2	1.75	0.52
6:BD:17:ARG:HD3	6:DD:2:LYS:NZ	2.23	0.52
6:HD:44:LEU:HD23	6:HD:94:ASN:HB2	1.91	0.52
6:CE:157:ASP:CG	6:CE:160:ILE:HD12	2.34	0.52
7:HE:110:LEU:HD11	7:HE:172:VAL:HG13	1.91	0.52
18:ME:61:VAL:HG11	18:ME:98:LEU:O	2.09	0.52
18:ME:214:ASP:O	18:ME:216:ARG:N	2.43	0.52
1:XF:93:ALA:HA	29:TF:201:PEB:CGC	2.39	0.52
4:KF:100:VAL:HG11	5:LF:27:LEU:HD13	1.88	0.52
7:iF:107:ASP:OD1	7:iF:107:ASP:N	2.35	0.52
7:HG:38:LEU:HD13	29:HG:202:PEB:HBD1	1.90	0.52
29:MG:401:PEB:NB	29:MG:401:PEB:NC	2.57	0.52
13:kH:109:GLU:HB2	4:EK:67:THR:HG22	1.90	0.52
13:kH:245:VAL:CG1	6:OR:79:ILE:HD13	2.40	0.52
5:DI:74:TYR:HH	4:GI:93:ARG:HH22	1.57	0.52
5:JI:166:ARG:NH2	27:aP:86:LYS:HZ3	2.06	0.52
7:JJ:110:LEU:HD21	7:JJ:172:VAL:HG13	1.91	0.52
6:KJ:72:ALA:CB	29:KJ:201:PEB:HMA2	2.39	0.52
6:aJ:68:ASN:CG	6:aJ:71:GLU:OE2	2.48	0.52
6:eJ:137:ARG:NH1	6:eJ:137:ARG:O	2.42	0.52
6:mJ:18:PHE:HB3	7:nJ:45:VAL:HG13	1.91	0.52
5:FK:154:SER:C	5:FK:156:LEU:N	2.68	0.52
7:eK:74:TYR:HH	6:lK:91:ARG:HH22	1.50	0.52
6:EL:137:ARG:NH1	6:EL:137:ARG:O	2.42	0.52
7:FL:159:THR:HG23	25:1P:512:GLU:O	2.09	0.52
6:KL:137:ARG:O	6:KL:137:ARG:NH1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TL:125:ASN:N	7:TL:125:ASN:OD1	2.41	0.52
7:ZL:108:ARG:HG2	16:XL:41:ASN:N	2.24	0.52
6:aL:137:ARG:O	6:aL:137:ARG:NH1	2.42	0.52
7:vL:110:LEU:HD21	7:vL:172:VAL:HG13	1.91	0.52
6:CM:6:THR:HG22	7:DM:1:MET:CG	2.39	0.52
6:CM:6:THR:CG2	7:DM:1:MET:HG3	2.39	0.52
6:KM:34:SER:HA	6:KM:37:ARG:HG2	1.90	0.52
7:LM:47:ASN:OD1	7:LM:149:ARG:NH1	2.42	0.52
6:QM:34:SER:HA	6:QM:37:ARG:HG2	1.90	0.52
6:SM:9:VAL:HG13	7:TM:95:TYR:CD1	2.44	0.52
7:VM:47:ASN:OD1	7:VM:149:ARG:NH1	2.42	0.52
7:DN:53:SER:HB3	6:KN:119:THR:O	2.09	0.52
6:GN:118:ARG:NH2	6:GN:122:LEU:O	2.43	0.52
6:KN:118:ARG:NH2	6:KN:122:LEU:O	2.42	0.52
21:BP:109:LEU:HD13	21:BP:159:GLY:HA3	1.91	0.52
20:PP:47:ARG:HD3	21:UP:18:TYR:OH	2.09	0.52
20:RP:89:LEU:HB2	20:RP:133:MET:HE1	1.90	0.52
21:SP:137:THR:O	21:SP:141:VAL:HG22	2.10	0.52
28:bP:72:ILE:HD13	28:bP:194:CYS:SG	2.49	0.52
21:kP:109:LEU:HD13	21:kP:159:GLY:HA3	1.91	0.52
20:IP:71:ASN:ND2	20:IP:121:THR:OG1	2.42	0.52
20:mP:102:THR:HG22	28:4P:50:TYR:HD2	1.74	0.52
20:pP:64:ASP:N	20:pP:64:ASP:OD1	2.42	0.52
21:qP:109:LEU:HD13	21:qP:159:GLY:HA3	1.91	0.52
21:sP:109:LEU:HD13	21:sP:159:GLY:HA3	1.91	0.52
20:tP:21:GLY:O	20:tP:25:ARG:HG2	2.08	0.52
21:wP:57:ALA:HA	21:wP:61:LEU:HB2	1.92	0.52
6:EQ:4:VAL:HG11	6:GQ:25:GLU:HB2	1.91	0.52
7:FQ:38:LEU:HD13	29:FQ:202:PEB:HBD1	1.90	0.52
6:KQ:38:LEU:HD13	7:LQ:28:LYS:HZ1	1.74	0.52
7:NR:110:LEU:HD11	7:NR:172:VAL:HG22	1.91	0.52
6:OR:57:ASP:OD1	6:OR:58:ALA:N	2.42	0.52
7:XR:133:ILE:HG23	29:XR:203:PEB:HBC2	1.92	0.52
1:X1:50:GLY:HA2	5:D1:114:ARG:NH1	2.25	0.52
3:B1:225:VAL:CA	3:B1:228:MET:HG2	2.39	0.52
4:E1:7:GLU:OE1	4:K1:22:THR:HG21	2.08	0.52
4:E1:21:ASN:ND2	4:K1:149:GLU:OE2	2.42	0.52
5:F1:36:GLN:HA	5:F1:39:ASP:OD2	2.10	0.52
6:W1:54:GLU:OE2	29:W1:202:PEB:HAC1	2.10	0.52
8:e2:118:ARG:CZ	7:V2:87:GLU:OE1	2.58	0.52
29:e2:401:PEB:CHA	7:P2:82:CYS:CA	2.80	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T2:67:ILE:O	7:T2:74:TYR:HD1	1.92	0.52
6:W2:50:ALA:O	6:W2:54:GLU:HG3	2.08	0.52
6:D4:16:GLY:CA	7:E4:91:ARG:HH22	2.21	0.52
6:D4:42:GLU:O	6:D4:46:GLY:N	2.42	0.52
7:E4:74:TYR:HB3	7:E4:78:ARG:NH2	2.21	0.52
7:I4:147:THR:OG1	7:I4:148:GLU:OE1	2.24	0.52
6:J4:42:GLU:O	6:J4:46:GLY:N	2.42	0.52
7:M4:51:MET:SD	7:M4:137:GLN:NE2	2.82	0.52
29:M4:203:PEB:CMC	29:M4:203:PEB:ND	2.73	0.52
4:I7:73:ALA:HA	31:I7:1001:CYC:HBD2	1.91	0.52
6:O7:43:LYS:NZ	6:O7:143:ASP:O	2.35	0.52
7:a7:167:SER:HG	12:E8:37:VAL:CG2	2.22	0.52
7:c7:35:ASN:ND2	29:c7:202:PEB:OD	2.42	0.52
7:k7:39:ASP:OD2	29:k7:202:PEB:NB	2.43	0.52
7:m7:135:LYS:HA	7:m7:169:PHE:CE2	2.44	0.52
7:B8:99:ALA:HB1	18:ME:265:LYS:NZ	2.25	0.52
7:B8:108:ARG:CG	18:ME:266:GLY:C	2.82	0.52
7:I8:30:PHE:CE2	28:4P:132:PRO:CD	2.74	0.52
6:J8:142:ARG:HH22	29:J8:202:PEB:C1B	2.23	0.52
7:R9:35:ASN:ND2	29:R9:202:PEB:OD	2.42	0.52
7:Y9:39:ASP:OD2	29:Y9:202:PEB:NB	2.42	0.52
6:IA:4:VAL:O	6:IA:7:THR:OG1	2.26	0.52
6:KA:62:LYS:NZ	6:KA:129:ALA:O	2.43	0.52
7:DB:47:ASN:OD1	7:DB:149:ARG:NH1	2.42	0.52
6:IB:53:LYS:HE2	6:IB:53:LYS:HA	1.90	0.52
6:AC:136:ASP:N	6:AC:136:ASP:OD1	2.42	0.52
18:MC:312:LEU:HD23	7:vJ:68:SER:OG	2.08	0.52
6:BD:33:ARG:HH11	29:ED:201:PEB:HBD1	1.72	0.52
7:CD:26:ALA:HA	7:CD:29:SER:HG	1.74	0.52
7:CD:172:VAL:O	7:CD:176:ILE:HG12	2.10	0.52
6:FD:81:LYS:HD2	6:FD:81:LYS:C	2.35	0.52
6:FD:96:CYS:HB3	6:FD:155:TYR:CE1	2.44	0.52
6:JD:44:LEU:HD23	6:JD:94:ASN:HB2	1.91	0.52
7:KD:39:ASP:OD1	29:KD:202:PEB:HMD3	2.10	0.52
7:KD:136:ALA:CB	29:KD:203:PEB:HBC2	2.39	0.52
6:GE:37:ARG:NH1	6:GE:98:VAL:O	2.42	0.52
18:ME:303:PHE:CD2	6:gL:83:TYR:CD2	2.80	0.52
18:ME:312:LEU:HD22	7:vL:69:PRO:N	2.21	0.52
4:GF:22:THR:CG2	4:IF:7:GLU:HG3	2.39	0.52
7:LG:116:THR:HA	14:MG:233:ALA:CB	2.37	0.52
6:GJ:97:LEU:HD11	6:GJ:152:PHE:HD1	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WJ:137:ARG:NH1	6:WJ:137:ARG:O	2.42	0.52
6:mJ:15:ALA:HB2	30:xJ:304:PUB:HBB1	1.91	0.52
16:xJ:234:ARG:HH11	16:xJ:260:PRO:HG2	1.75	0.52
19:zJ:339:VAL:HA	20:tP:67:SER:OG	2.09	0.52
2:AK:243:SER:HB2	2:AK:246:LYS:H	1.75	0.52
5:LK:40:ILE:HG12	29:LK:1002:PEB:CBA	2.33	0.52
6:AL:137:ARG:HH21	29:AL:202:PEB:CGB	2.23	0.52
6:AL:139:CYS:SG	29:AL:202:PEB:CMA	2.97	0.52
7:HL:108:ARG:O	7:HL:108:ARG:HG2	2.09	0.52
6:UL:70:GLY:CA	6:UL:74:GLU:HG2	2.39	0.52
7:bL:125:ASN:N	7:bL:125:ASN:OD1	2.41	0.52
6:iL:137:ARG:NH1	6:iL:137:ARG:O	2.42	0.52
7:pL:125:ASN:N	7:pL:125:ASN:OD1	2.41	0.52
16:xL:265:ALA:O	16:xL:267:ARG:NH2	2.43	0.52
19:zL:366:ARG:HH21	21:LP:57:ALA:HB1	1.75	0.52
15:bM:319:VAL:HG21	20:mP:79:ALA:C	2.34	0.52
17:BM:80:LYS:HZ2	7:DM:115:GLU:CD	2.10	0.52
7:HM:159:THR:O	7:HM:163[B]:SER:OG	2.26	0.52
7:XM:58:GLY:O	7:XM:62:GLU:HG3	2.09	0.52
7:FN:37:ARG:NH2	7:FN:164:GLU:OE1	2.38	0.52
6:GN:89:TYR:OH	6:GN:117:TYR:OH	2.27	0.52
31:DP:1001:CYC:OB	25:YP:479:LEU:HD22	2.09	0.52
21:MP:147:LYS:HD3	21:MP:148:GLU:N	2.24	0.52
21:QP:57:ALA:HA	21:QP:61:LEU:HB2	1.91	0.52
21:QP:137:THR:O	21:QP:141:VAL:HG22	2.10	0.52
20:gP:10:ASN:OD1	25:1P:507:LYS:HD2	2.09	0.52
21:kP:137:THR:O	21:kP:141:VAL:HG22	2.10	0.52
20:pP:71:ASN:ND2	20:pP:121:THR:OG1	2.42	0.52
22:xP:64:GLU:OE2	22:xP:64:GLU:N	2.35	0.52
6:CQ:93:VAL:HG11	6:CQ:156:LEU:HG	1.91	0.52
6:MR:44:LEU:HA	29:MR:202:PEB:CBD	2.39	0.52
6:MR:116:VAL:HG13	6:MR:120:LEU:CD1	2.38	0.52
6:OR:138:LEU:CD1	6:OR:144:MET:HE3	2.39	0.52
6:WR:28:GLN:OE1	6:WR:31:ILE:HD12	2.09	0.52
3:B1:108:GLU:HB2	3:B1:125:LYS:HD3	1.91	0.52
5:H1:165:ASP:N	5:H1:165:ASP:OD1	2.40	0.52
5:N1:38:LEU:HD13	29:N1:1002:PEB:CAD	2.40	0.52
6:M2:48:HIS:O	6:M2:52:VAL:HG22	2.10	0.52
7:N2:65:GLY:O	7:N2:68:SER:OG	2.26	0.52
6:Q2:25:GLU:HG2	6:S2:33:ARG:HG3	1.91	0.52
7:T2:110:LEU:HD21	7:T2:172:VAL:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U2:57:ASP:OD1	6:U2:58:ALA:N	2.42	0.52
6:W2:138:LEU:HD21	6:W2:144:MET:CE	2.36	0.52
7:F3:177:SER:HB3	9:O3:335:LYS:HE3	1.90	0.52
6:B4:114:ARG:HD3	6:L4:118:ARG:HH11	1.73	0.52
7:C4:172:VAL:O	7:C4:176:ILE:HG12	2.10	0.52
6:H4:151:GLU:CD	6:H4:151:GLU:N	2.68	0.52
7:H5:54:ASP:OD2	7:H5:137:GLN:NE2	2.42	0.52
7:K5:36:LYS:HB2	7:K5:161:LEU:HD11	1.91	0.52
7:L5:104:VAL:HG21	4:I7:68:GLN:HE22	1.73	0.52
2:A7:284:ARG:NH2	2:A7:290:TYR:O	2.40	0.52
4:I7:142:LEU:HD13	4:I7:146:VAL:HG12	1.91	0.52
4:M7:142:LEU:HD13	4:M7:146:VAL:HG12	1.91	0.52
7:V7:35:ASN:ND2	29:V7:202:PEB:OD	2.42	0.52
1:X9:263:THR:C	5:D9:115:GLU:OE2	2.46	0.52
2:A9:34:LEU:N	6:Z9:164:SER:OXT	2.42	0.52
4:C9:28:ASN:OD1	4:C9:32:GLN:NE2	2.40	0.52
5:F9:113:LEU:HD23	5:F9:171:VAL:CG2	2.36	0.52
4:K9:73:ALA:HA	31:K9:1001:CYC:HBD2	1.91	0.52
5:L9:114:ARG:HH12	27:3P:228:GLY:HA3	1.73	0.52
6:f9:30:ASN:OD1	6:f9:37:ARG:NH2	2.40	0.52
7:m9:39:ASP:OD2	29:m9:202:PEB:NB	2.43	0.52
15:bB:343:PHE:CE2	20:KP:63:PRO:C	2.87	0.52
7:FB:47:ASN:OD1	7:FB:149:ARG:NH1	2.42	0.52
6:GB:106:ASP:OD1	6:GB:158:TYR:OH	2.26	0.52
7:JB:149:ARG:HE	7:JB:151:MET:HG2	1.75	0.52
6:hB:34:SER:HA	6:hB:37:ARG:HG2	1.90	0.52
7:kB:80:ALA:O	7:kB:84:ARG:HB3	2.10	0.52
6:CC:37:ARG:NH1	6:CC:98:VAL:O	2.42	0.52
6:EC:157:ASP:O	6:EC:161:ASN:ND2	2.42	0.52
7:JC:37:ARG:HA	7:JC:161:LEU:HD21	1.92	0.52
7:LC:37:ARG:HA	7:LC:161:LEU:HD21	1.92	0.52
6:DD:68:ASN:HB2	6:DD:71:GLU:HG2	1.91	0.52
7:GD:73:CYS:HA	7:GD:78:ARG:HB3	1.92	0.52
6:HD:142:ARG:HH22	29:HD:202:PEB:CGC	2.16	0.52
6:JD:42:GLU:O	6:JD:46:GLY:N	2.42	0.52
7:KD:172:VAL:O	7:KD:176:ILE:HG12	2.10	0.52
7:MD:124:THR:CA	6:UI:69:PRO:CG	2.86	0.52
6:AE:37:ARG:NH1	6:AE:98:VAL:O	2.42	0.52
3:BF:166:ILE:HG22	3:BF:173:GLY:HA3	1.91	0.52
3:BF:169:GLN:HG2	5:LF:77:ARG:NH2	2.24	0.52
6:CG:93:VAL:HG11	6:CG:156:LEU:HG	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:57:SER:CA	7:FG:60:ILE:CG2	2.85	0.52
6:GG:93:VAL:HG11	6:GG:156:LEU:HG	1.91	0.52
6:KG:93:VAL:HG11	6:KG:156:LEU:HG	1.91	0.52
13:kH:134:ILE:CD1	13:kH:143:ALA:HB3	2.40	0.52
1:XI:116:THR:OG1	1:XI:193:ASP:O	2.26	0.52
5:JI:18:PHE:HE2	27:aP:98:GLN:CG	2.21	0.52
6:bI:140:VAL:CG2	6:bI:141:PRO:HD3	2.39	0.52
6:CJ:137:ARG:NH1	6:CJ:137:ARG:O	2.42	0.52
7:PJ:19:VAL:O	7:PJ:19:VAL:HG22	2.08	0.52
6:YJ:33:ARG:NH2	6:YJ:33:ARG:CG	2.73	0.52
7:fJ:110:LEU:HD21	7:fJ:172:VAL:HG13	1.91	0.52
6:kJ:33:ARG:HD3	29:nJ:202:PEB:OD	2.10	0.52
6:kJ:154:ALA:HB3	6:mJ:21:ASN:HD21	1.74	0.52
6:uJ:111:ALA:CB	16:xJ:96:GLU:OE2	2.47	0.52
3:BK:85:LYS:HD3	3:BK:145:LEU:HD13	1.91	0.52
3:BK:223:ASN:HA	3:BK:226:GLN:CG	2.40	0.52
5:JK:8:VAL:O	5:JK:11:GLN:CD	2.53	0.52
6:SK:54:GLU:O	6:SK:54:GLU:HG2	2.09	0.52
6:WK:53:LYS:CD	6:WK:53:LYS:N	2.73	0.52
6:WK:54:GLU:OE2	29:WK:202:PEB:HAC1	2.10	0.52
6:CL:137:ARG:NH1	6:CL:137:ARG:O	2.42	0.52
6:UL:33:ARG:NE	6:WL:25:GLU:HG2	2.24	0.52
7:fL:110:LEU:HD21	7:fL:172:VAL:HG13	1.91	0.52
6:kL:33:ARG:HD3	29:nL:202:PEB:OD	2.10	0.52
7:XM:47:ASN:OD1	7:XM:149:ARG:NH1	2.42	0.52
7:cM:47:ASN:OD1	7:cM:149:ARG:NH1	2.42	0.52
6:CN:43:LYS:HZ3	6:CN:143:ASP:HB3	1.75	0.52
6:EN:118:ARG:NH2	6:EN:122:LEU:O	2.42	0.52
14:MN:238:GLN:HE21	14:MN:325:SER:HB3	1.74	0.52
7:FO:129:ARG:NH1	7:MO:149:ARG:HH12	2.08	0.52
7:LO:75:THR:OG1	7:LO:76:ASN:N	2.41	0.52
21:BP:57:ALA:HA	21:BP:61:LEU:HB2	1.92	0.52
21:IP:57:ALA:HA	21:IP:61:LEU:HB2	1.92	0.52
20:JP:71:ASN:ND2	20:JP:121:THR:OG1	2.42	0.52
20:KP:64:ASP:N	20:KP:64:ASP:OD1	2.42	0.52
20:KP:89:LEU:HB2	20:KP:133:MET:HE1	1.91	0.52
21:LP:110:ASN:HD21	24:XP:115:ILE:H	1.57	0.52
20:NP:89:LEU:HB2	20:NP:133:MET:HE1	1.90	0.52
20:PP:71:ASN:ND2	20:PP:121:THR:OG1	2.42	0.52
21:SP:109:LEU:HD13	21:SP:159:GLY:HA3	1.91	0.52
25:YP:80:SER:OG	25:YP:83:SER:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:fP:1:MET:HE1	20:gP:8:ILE:HG22	1.91	0.52
20:gP:89:LEU:HB2	20:gP:133:MET:HE1	1.90	0.52
21:jP:57:ALA:HA	21:jP:61:LEU:HB2	1.91	0.52
21:nP:137:THR:O	21:nP:141:VAL:HG22	2.10	0.52
25:1P:77:VAL:HB	25:1P:133:LYS:CE	2.34	0.52
8:eR:214:PHE:HB3	29:TR:201:PEB:O1C	2.10	0.52
6:MR:108:TRP:O	7:VR:75:THR:OG1	2.28	0.52
7:PR:84:ARG:HG2	7:PR:88:ILE:HG13	1.91	0.52
6:QR:50:ALA:O	6:QR:53:LYS:HB2	2.10	0.52
6:SR:97:LEU:C	6:SR:97:LEU:CD1	2.79	0.52
4:E1:46:GLY:C	6:Q7:49:GLU:CG	2.82	0.52
5:J1:17:GLU:HB2	15:bB:335:ILE:HB	1.92	0.52
6:O2:37:ARG:HH12	6:O2:100:GLY:HA3	1.67	0.52
6:O2:80:ASN:ND2	13:k6:248:ASP:OD2	2.42	0.52
6:Q2:50:ALA:O	6:Q2:53:LYS:HB2	2.10	0.52
29:S2:201:PEB:CMB	29:S2:201:PEB:NA	2.73	0.52
29:S2:201:PEB:HNA	29:S2:201:PEB:HMB2	1.74	0.52
7:T2:133:ILE:HG23	29:T2:203:PEB:HBC2	1.92	0.52
6:K3:56:GLY:CA	6:K3:83:TYR:CE1	2.74	0.52
6:B4:42:GLU:O	6:B4:46:GLY:N	2.42	0.52
6:F4:43:LYS:CA	6:F4:43:LYS:NZ	2.73	0.52
6:J4:96:CYS:HB3	6:J4:155:TYR:CE1	2.44	0.52
7:M4:106:GLU:N	7:M4:106:GLU:OE2	2.41	0.52
7:L5:104:VAL:HG23	4:I7:68:GLN:NE2	2.24	0.52
12:E5:43:ALA:HB1	7:a9:29:SER:CB	2.40	0.52
6:f7:30:ASN:OD1	6:f7:37:ARG:NH2	2.40	0.52
6:l7:137:ARG:NH1	6:l7:137:ARG:CG	2.72	0.52
29:l7:202:PEB:CMA	12:E8:233:TYR:OH	2.57	0.52
7:C8:67:ILE:O	7:C8:74:TYR:CD1	2.61	0.52
3:B9:209:GLN:HG2	27:aP:55:TYR:CG	2.45	0.52
4:G9:28:ASN:OD1	4:G9:32:GLN:NE2	2.40	0.52
6:O9:43:LYS:NZ	6:O9:143:ASP:O	2.35	0.52
7:P9:35:ASN:ND2	29:P9:202:PEB:OD	2.42	0.52
6:d9:43:LYS:NZ	6:d9:143:ASP:O	2.35	0.52
7:DA:75:THR:HG21	6:KA:108:TRP:HD1	1.75	0.52
7:eB:47:ASN:OD1	7:eB:149:ARG:NH1	2.42	0.52
6:lB:54:GLU:OE1	29:lB:202:PEB:HMC2	1.95	0.52
7:DC:47:ASN:OD1	7:DC:149:ARG:NH1	2.42	0.52
18:MC:300:VAL:O	6:gJ:49:GLU:HB2	2.08	0.52
6:BD:2:LYS:NZ	6:DD:17:ARG:HH11	2.07	0.52
6:BD:17:ARG:NH2	6:BD:17:ARG:CB	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:140:VAL:HG22	6:BD:146:ALA:HA	1.92	0.52
6:JD:33:ARG:CD	6:LD:25:GLU:OE1	2.58	0.52
6:LD:68:ASN:HB2	6:LD:71:GLU:HG2	1.91	0.52
6:AE:157:ASP:CG	6:AE:160:ILE:HD12	2.34	0.52
6:CE:37:ARG:NH1	6:CE:98:VAL:O	2.42	0.52
5:DF:74:TYR:HH	4:GF:93:ARG:HH22	1.57	0.52
4:MF:38:LEU:HG	4:MF:100:VAL:HG12	1.91	0.52
7:YF:33:ASP:HB2	7:YF:36:LYS:HD3	1.91	0.52
7:DG:125:ASN:HA	7:DG:128:ILE:HG12	1.92	0.52
13:kH:136:ARG:O	13:kH:140:GLY:HA2	2.09	0.52
4:GI:22:THR:CG2	4:II:7:GLU:HG3	2.39	0.52
7:DJ:125:ASN:N	7:DJ:125:ASN:OD1	2.41	0.52
6:IJ:138:LEU:HB2	29:IJ:202:PEB:HMD3	1.92	0.52
6:KJ:137:ARG:O	6:KJ:137:ARG:NH1	2.42	0.52
7:fJ:107:ASP:HB3	16:wJ:140:LYS:HZ1	1.73	0.52
6:iJ:73:GLY:CA	6:iJ:78:LYS:HG3	2.39	0.52
6:mJ:19:PRO:O	7:nJ:45:VAL:HG21	2.09	0.52
7:tJ:77:ARG:HH11	16:xJ:212:ARG:HH12	1.57	0.52
7:vJ:110:LEU:HD21	7:vJ:172:VAL:HG13	1.91	0.52
16:wJ:45:SER:O	16:wJ:45:SER:OG	2.22	0.52
1:XK:178:ASP:N	1:XK:178:ASP:OD1	2.42	0.52
4:GK:108:ASP:HA	4:GK:112:VAL:HG23	1.90	0.52
6:hK:135:ARG:HD2	6:hK:157:ASP:CG	2.34	0.52
7:hL:110:LEU:HD21	7:hL:172:VAL:HG13	1.91	0.52
6:mL:108:TRP:HZ3	7:nL:9:VAL:HG12	1.75	0.52
6:qL:137:ARG:O	6:qL:137:ARG:NH1	2.42	0.52
7:rL:110:LEU:HD21	7:rL:172:VAL:HG13	1.91	0.52
16:wL:139:GLU:O	16:wL:143:THR:OG1	2.23	0.52
16:wL:164:SER:HB3	16:xL:36:GLN:CD	2.34	0.52
7:NM:47:ASN:OD1	7:NM:149:ARG:NH1	2.42	0.52
6:GN:149:GLY:O	6:GN:153:SER:OG	2.26	0.52
7:JN:82:CYS:HA	29:JN:201:PEB:HHA1	1.92	0.52
7:JN:91:ARG:NH1	7:JN:95:TYR:OH	2.38	0.52
14:MN:172:SER:OG	14:MN:173:ALA:N	2.43	0.52
7:JO:75:THR:OG1	7:JO:76:ASN:N	2.41	0.52
21:QP:63:SER:HA	27:3P:58:ASP:OD1	2.08	0.52
21:UP:119:LEU:CD2	25:YP:698:VAL:HA	2.39	0.52
22:VP:90:ARG:HG2	22:VP:94:TYR:CE2	2.45	0.52
20:cP:89:LEU:HB2	20:cP:133:MET:HE1	1.90	0.52
20:gP:13:ALA:CB	25:1P:507:LYS:HB3	2.35	0.52
21:kP:38:VAL:HG13	20:lP:23:LEU:HD22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3P:280:PRO:HB2	27:3P:283:THR:CG2	2.40	0.52
7:BQ:141:PHE:CZ	29:BQ:203:PEB:HMA3	2.44	0.52
7:DQ:38:LEU:HD13	29:DQ:202:PEB:HBD1	1.90	0.52
6:EQ:1:MET:O	14:MQ:194:ILE:HD11	2.10	0.52
6:MR:50:ALA:O	6:MR:53:LYS:HB2	2.10	0.52
6:OR:91:ARG:NH1	6:OR:95:TYR:HE2	2.08	0.52
7:PR:133:ILE:HG23	29:PR:202:PEB:HBC2	1.92	0.52
1:X1:178:ASP:OD1	1:X1:178:ASP:N	2.42	0.52
3:B1:85:LYS:HD3	3:B1:145:LEU:HD13	1.91	0.52
5:H1:145:THR:HG22	29:H1:1002:PEB:HMA2	1.92	0.52
5:J1:69:PRO:HB3	5:N1:16:GLY:CA	2.32	0.52
4:M1:93:ARG:HD2	5:N1:18:PHE:N	2.24	0.52
7:T1:3:ASP:CG	7:T1:6:SER:HG	2.07	0.52
7:g1:101:ASP:CA	14:MA:98:LEU:HD11	2.37	0.52
6:O2:137:ARG:HH21	29:O2:202:PEB:C1C	2.21	0.52
10:d4:135:ARG:O	10:d4:138:GLU:HG2	2.10	0.52
6:D4:81:LYS:C	6:D4:81:LYS:HD2	2.35	0.52
6:F4:28:GLN:OE1	6:F4:31:ILE:HD12	2.09	0.52
6:H4:68:ASN:HB2	6:H4:71:GLU:HG2	1.91	0.52
7:I5:24:LEU:N	7:I5:24:LEU:CD2	2.73	0.52
12:E5:182:ASN:HD22	6:bI:80:ASN:ND2	1.77	0.52
13:k6:204:GLN:HB3	13:k6:205:PRO:HD2	1.92	0.52
13:k6:221:TYR:CA	4:E7:79:ILE:HD11	2.39	0.52
6:l7:17:ARG:O	7:m7:95:TYR:OH	2.20	0.52
4:I9:142:LEU:HD13	4:I9:146:VAL:HG12	1.91	0.52
6:d9:30:ASN:OD1	6:d9:37:ARG:NH2	2.40	0.52
7:m9:92:TYR:HB3	7:m9:105:LEU:CD1	2.39	0.52
6:EA:4:VAL:O	6:EA:7:THR:OG1	2.26	0.52
7:FA:82:CYS:HA	29:FA:201:PEB:HHA1	1.92	0.52
6:GA:62:LYS:NZ	6:GA:129:ALA:O	2.43	0.52
7:HA:37:ARG:NH2	7:HA:164:GLU:OE1	2.38	0.52
7:kB:47:ASN:OD1	7:kB:149:ARG:NH1	2.42	0.52
6:AC:25:GLU:OE2	6:CC:33:ARG:CG	2.58	0.52
7:DC:51:MET:HE1	7:DC:137:GLN:HB3	0.63	0.52
7:DC:110:LEU:HD11	7:DC:172:VAL:HG13	1.91	0.52
18:MC:214:ASP:O	18:MC:216:ARG:N	2.43	0.52
18:MC:240:ARG:HD3	6:SF:133:TYR:CE1	2.30	0.52
18:MC:312:LEU:HD12	18:MC:312:LEU:C	2.34	0.52
10:dD:334:LYS:NZ	10:dD:337:ARG:HH11	2.07	0.52
7:CD:50:CYS:SG	29:CD:203:PEB:CBA	2.96	0.52
6:FD:140:VAL:HG22	6:FD:146:ALA:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LD:42:GLU:O	6:LD:46:GLY:N	2.42	0.52
6:LD:140:VAL:HG22	6:LD:146:ALA:HA	1.92	0.52
7:DE:123:PRO:CA	6:QI:69:PRO:HG2	2.39	0.52
7:FE:37:ARG:HA	7:FE:161:LEU:HD21	1.92	0.52
6:KE:37:ARG:NH1	6:KE:98:VAL:O	2.42	0.52
18:ME:196:ASP:O	18:ME:237:PHE:HE1	1.88	0.52
18:ME:312:LEU:HD12	18:ME:312:LEU:C	2.34	0.52
6:AG:33:ARG:HD2	29:DG:202:PEB:OD	2.10	0.52
7:HG:157:ASP:OD2	7:HG:159:THR:OG1	2.27	0.52
29:FI:1002:PEB:HHC2	4:KI:145:GLN:HE22	1.75	0.52
4:GI:145:GLN:HG3	29:JI:1002:PEB:HMC2	1.91	0.52
5:JI:23:GLN:HA	27:aP:92:PRO:HD2	1.91	0.52
6:GJ:137:ARG:NH1	6:GJ:137:ARG:O	2.42	0.52
6:IJ:138:LEU:HB2	29:IJ:202:PEB:CMD	2.40	0.52
6:QJ:47:ASN:ND2	29:QJ:202:PEB:C4D	2.63	0.52
6:SJ:40:ALA:HB2	6:SJ:148:ALA:HB1	1.90	0.52
6:YJ:33:ARG:CZ	6:YJ:151:GLU:OE2	2.58	0.52
6:YJ:33:ARG:NH1	6:YJ:151:GLU:OE2	2.42	0.52
6:sJ:68:ASN:HB2	6:sJ:71:GLU:HG2	1.89	0.52
16:xJ:265:ALA:O	16:xJ:267:ARG:NH2	2.43	0.52
6:lK:135:ARG:HD2	6:lK:157:ASP:CG	2.33	0.52
7:NL:110:LEU:HD21	7:NL:172:VAL:HG13	1.91	0.52
7:dL:110:LEU:HD21	7:dL:172:VAL:HG13	1.91	0.52
19:zL:329:ILE:HD11	20:NP:59:PHE:HD2	1.70	0.52
19:zL:363:ARG:CA	21:LP:62:TYR:CE2	2.90	0.52
15:bM:138:ARG:HD3	15:bM:241:SER:HB2	1.92	0.52
15:bM:254:PRO:HA	7:FM:115:GLU:OE2	2.10	0.52
7:HM:47:ASN:OD1	7:HM:149:ARG:NH1	2.42	0.52
7:HM:58:GLY:O	7:HM:62:GLU:HG3	2.09	0.52
7:NM:25:GLN:HB2	21:oP:147:LYS:HG2	1.77	0.52
6:CO:48:HIS:CD2	6:CO:49:GLU:OE1	2.60	0.52
21:BP:72:MET:HA	21:BP:77:ARG:HB3	1.91	0.52
21:HP:57:ALA:HA	21:HP:61:LEU:HB2	1.92	0.52
20:PP:9:VAL:HG13	21:UP:1:MET:CE	2.38	0.52
22:VP:38:ARG:O	22:VP:41:SER:HB3	2.10	0.52
27:aP:280:PRO:HB2	27:aP:283:THR:CG2	2.40	0.52
21:dP:97:LEU:HD13	20:eP:18:LEU:CD2	2.34	0.52
21:fP:60:LEU:HD13	21:fP:72:MET:SD	2.50	0.52
21:fP:109:LEU:HD13	21:fP:159:GLY:HA3	1.91	0.52
21:hP:57:ALA:HA	21:hP:61:LEU:HB2	1.92	0.52
21:nP:75:THR:HG23	20:pP:108:GLY:HA2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:nP:119:LEU:HD21	24:zP:98:PHE:HE1	1.74	0.52
21:wP:137:THR:O	21:wP:141:VAL:HG22	2.10	0.52
23:yP:41:ALA:CB	23:yP:103:ILE:HD11	2.40	0.52
27:3P:212:THR:O	27:3P:233:LYS:NZ	2.24	0.52
7:BQ:47:ASN:O	7:BQ:51:MET:N	2.42	0.52
7:DQ:125:ASN:HA	7:DQ:128:ILE:HG12	1.92	0.52
6:EQ:93:VAL:HG11	6:EQ:156:LEU:HG	1.91	0.52
7:FQ:62:GLU:OE1	29:FQ:203:PEB:HBD2	2.09	0.52
6:KQ:87:ASP:OD1	7:LQ:18:TYR:OH	2.19	0.52
6:KQ:93:VAL:HG11	6:KQ:156:LEU:HG	1.91	0.52
7:LQ:154:ALA:O	29:LQ:201:PEB:NA	2.32	0.52
7:VR:39:ASP:OD1	29:VR:202:PEB:HMD3	2.10	0.52
6:WR:57:ASP:OD1	6:WR:58:ALA:N	2.43	0.52
7:XR:51:MET:HA	7:XR:137:GLN:HE22	1.74	0.52
3:B1:102:ASN:HB3	5:J1:111:ASN:HB3	1.92	0.52
4:E1:142:LEU:N	4:E1:142:LEU:HD23	2.25	0.52
5:L1:20:SER:N	5:L1:23:GLN:HE21	2.00	0.52
8:e2:147:PHE:HD1	8:e2:159:LEU:CD1	2.21	0.52
29:e2:402:PEB:H1D1	7:X2:85:ASP:OD1	2.10	0.52
6:O2:50:ALA:O	6:O2:53:LYS:HB3	2.10	0.52
6:O2:75:ASN:HA	7:L5:76:ASN:HD21	1.75	0.52
7:V2:133:ILE:HG23	29:V2:203:PEB:HBC2	1.91	0.52
7:D3:42:ASN:O	7:D3:46:SER:OG	2.26	0.52
6:B4:17:ARG:CG	6:B4:17:ARG:NH2	2.73	0.52
7:G4:133:ILE:HD11	29:G4:203:PEB:HHC2	1.92	0.52
6:J4:33:ARG:CD	6:L4:25:GLU:OE1	2.58	0.52
7:K4:39:ASP:OD1	29:K4:202:PEB:HMD3	2.10	0.52
7:K4:135:LYS:HZ3	7:K4:169:PHE:HB2	1.73	0.52
7:M4:160:SER:O	7:M4:163:SER:OG	2.23	0.52
7:L5:54:ASP:OD2	7:L5:137:GLN:NE2	2.42	0.52
13:k6:220:GLU:CB	4:E7:79:ILE:HD13	2.38	0.52
3:B7:58:HIS:ND1	31:N7:1001:CYC:O1A	2.43	0.52
5:F7:15:ARG:HB2	5:F7:17:GLU:OE1	2.10	0.52
4:G7:143:SER:HB2	6:MB:141:PRO:HG3	1.91	0.52
1:X9:141:TYR:HA	1:X9:144:ILE:HD12	1.91	0.52
4:E9:79:ILE:HD11	13:kH:221:TYR:CA	2.39	0.52
4:E9:142:LEU:HD13	4:E9:146:VAL:HG12	1.91	0.52
7:m9:8:VAL:CG1	7:m9:23:ASP:CG	2.80	0.52
6:IA:25:GLU:OE1	6:KA:33:ARG:HG3	2.10	0.52
6:IA:62:LYS:NZ	6:IA:129:ALA:O	2.43	0.52
7:JA:82:CYS:HA	29:JA:201:PEB:HHA1	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HB:74:TYR:OH	6:KB:91:ARG:NH2	2.43	0.52
7:gB:35:ASN:H	7:gB:35:ASN:ND2	2.05	0.52
7:gB:47:ASN:OD1	7:gB:149:ARG:NH1	2.42	0.52
7:iB:47:ASN:OD1	7:iB:149:ARG:NH1	2.42	0.52
7:DC:123:PRO:CB	6:QF:69:PRO:CG	2.61	0.52
6:DD:81:LYS:HD2	6:DD:81:LYS:C	2.35	0.52
6:DD:151:GLU:CD	6:DD:151:GLU:N	2.68	0.52
7:KD:33:ASP:OD1	7:KD:33:ASP:N	2.24	0.52
6:LD:96:CYS:HB3	6:LD:155:TYR:CE1	2.44	0.52
7:HE:37:ARG:HA	7:HE:161:LEU:HD21	1.92	0.52
4:IF:3:THR:O	4:IF:7:GLU:HG2	2.09	0.52
5:JF:169:VAL:HG22	5:JF:169:VAL:O	2.10	0.52
7:FG:58:GLY:CA	29:FG:203:PEB:C3D	2.78	0.52
6:MJ:137:ARG:NH1	6:MJ:137:ARG:O	2.42	0.52
6:SJ:33:ARG:NH2	6:SJ:151:GLU:OE2	2.41	0.52
6:SJ:51:VAL:HG22	6:SJ:52:VAL:H	1.70	0.52
7:XJ:110:LEU:HD21	7:XJ:172:VAL:HG13	1.91	0.52
6:YJ:33:ARG:CZ	29:bJ:202:PEB:OD	2.57	0.52
6:kJ:14:ALA:C	16:xJ:187:ARG:HD3	2.35	0.52
6:kJ:137:ARG:NH1	6:kJ:137:ARG:O	2.42	0.52
6:qJ:137:ARG:O	6:qJ:137:ARG:NH1	2.42	0.52
16:wJ:86:CYS:CB	30:wJ:305:PUB:HAA1	2.36	0.52
1:XK:368:ILE:HD12	5:DK:116:THR:HG22	1.91	0.52
2:AK:103:CYS:SG	30:AK:305:PUB:CAA	2.97	0.52
5:FK:20:SER:N	5:FK:23:GLN:HE21	2.08	0.52
7:FL:125:ASN:ND2	7:XL:70:GLY:HA2	2.24	0.52
6:GL:37:ARG:NH1	6:GL:98:VAL:O	2.32	0.52
7:ZL:125:ASN:N	7:ZL:125:ASN:OD1	2.41	0.52
7:bL:110:LEU:HD21	7:bL:172:VAL:HG13	1.91	0.52
6:kL:114:ARG:HH22	16:xL:210:ILE:HD11	1.74	0.52
6:oL:13:ASP:OD1	7:pL:92:TYR:OH	2.28	0.52
15:bM:343:PHE:HE2	20:mP:63:PRO:C	2.17	0.52
16:AM:172:VAL:HG11	7:kM:115:GLU:OE1	2.09	0.52
7:DM:47:ASN:OD1	7:DM:149:ARG:NH1	2.42	0.52
7:PM:47:ASN:OD1	7:PM:149:ARG:NH1	2.42	0.52
6:fM:99:VAL:HG23	7:gM:9:VAL:HG21	1.92	0.52
6:hM:36:ALA:CB	6:hM:147:GLN:CG	2.88	0.52
7:mM:47:ASN:OD1	7:mM:149:ARG:NH1	2.42	0.52
7:BN:82:CYS:HA	29:BN:201:PEB:HHA1	1.92	0.52
20:KP:76:GLU:OE1	20:KP:76:GLU:HA	2.10	0.52
20:NP:71:ASN:ND2	20:NP:121:THR:OG1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:SP:57:ALA:HA	21:SP:61:LEU:HB2	1.92	0.52
20:TP:155:TYR:CE1	27:aP:167:MET:HE2	2.45	0.52
25:YP:77:VAL:HB	25:YP:133:LYS:CE	2.34	0.52
27:aP:286:ARG:HG2	27:aP:287:LEU:HD22	1.92	0.52
20:gP:76:GLU:HA	20:gP:76:GLU:OE1	2.10	0.52
20:IP:151:PHE:CG	20:pP:20:PRO:HB3	2.44	0.52
20:vP:21:GLY:O	20:vP:25:ARG:HG2	2.08	0.52
20:vP:76:GLU:OE1	20:vP:76:GLU:HA	2.10	0.52
23:yP:12:TYR:OH	23:yP:20:ASP:OD1	2.20	0.52
6:AQ:128:VAL:HA	6:AQ:131:ILE:HG12	1.92	0.52
29:FQ:201:PEB:HMC3	14:MQ:181:TYR:CD2	2.02	0.52
6:KQ:128:VAL:HA	6:KQ:131:ILE:HG12	1.92	0.52
6:OR:115:GLU:CD	6:OR:118:ARG:NH2	2.67	0.52
6:QR:57:ASP:OD1	6:QR:58:ALA:N	2.42	0.52
7:VR:65:GLY:O	7:VR:68:SER:OG	2.26	0.52
7:XR:85:ASP:OD1	29:XR:201:PEB:H1D1	2.10	0.52
2:A1:243:SER:HB2	2:A1:246:LYS:H	1.75	0.52
5:J1:77:ARG:HB2	4:M1:113:ALA:HB1	1.92	0.52
8:e2:291:ILE:O	8:e2:291:ILE:HG13	2.08	0.52
6:M2:116:VAL:HG13	6:M2:120:LEU:CD1	2.38	0.52
6:O2:57:ASP:OD1	6:O2:58:ALA:N	2.42	0.52
6:S2:97:LEU:C	6:S2:97:LEU:CD1	2.79	0.52
10:d4:295:SER:OG	5:FF:18:PHE:CE2	2.60	0.52
6:B4:131:ILE:O	6:B4:134:THR:OG1	2.22	0.52
6:D4:44:LEU:HD23	6:D4:94:ASN:HB2	1.91	0.52
6:D4:151:GLU:CD	6:D4:151:GLU:N	2.68	0.52
7:E4:172:VAL:O	7:E4:176:ILE:HG12	2.10	0.52
6:J4:81:LYS:HD2	6:J4:81:LYS:C	2.35	0.52
6:L4:151:GLU:CD	6:L4:151:GLU:N	2.68	0.52
7:B5:129:ARG:NH2	7:B5:132:SER:OG	2.43	0.52
7:G5:54:ASP:OD2	7:G5:137:GLN:NE2	2.42	0.52
1:X7:299:VAL:HG12	1:X7:360:ILE:HG12	1.91	0.52
3:B7:198:SER:OG	5:N7:69:PRO:O	2.28	0.52
4:G7:73:ALA:HA	31:G7:1001:CYC:HBD2	1.91	0.52
4:G7:118:ILE:HD13	31:G7:1001:CYC:HMA3	1.92	0.52
4:K7:73:ALA:HA	31:K7:1001:CYC:HBD2	1.91	0.52
6:h7:30:ASN:OD1	6:h7:37:ARG:NH2	2.40	0.52
7:G8:54:ASP:OD2	7:G8:137:GLN:NE2	2.42	0.52
7:G8:129:ARG:NH2	7:G8:132:SER:OG	2.43	0.52
7:H8:129:ARG:NH2	7:H8:132:SER:OG	2.43	0.52
12:E8:162:ASN:ND2	29:kF:203:PEB:CGB	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E8:182:ASN:CB	6:bF:80:ASN:HD21	2.21	0.52
3:B9:23:ASN:OD1	4:M9:108:ASP:OD1	2.28	0.52
6:S9:30:ASN:OD1	6:S9:37:ARG:NH2	2.40	0.52
7:BA:82:CYS:HA	29:BA:201:PEB:HHA1	1.92	0.52
6:AC:157:ASP:CG	6:AC:160:ILE:HD12	2.34	0.52
7:BC:110:LEU:HD11	7:BC:172:VAL:HG13	1.91	0.52
6:EC:37:ARG:NH1	6:EC:98:VAL:O	2.42	0.52
10:dD:226:ARG:NH1	6:WI:46:GLY:HA3	2.21	0.52
7:CD:53:SER:OG	7:CD:54:ASP:N	2.41	0.52
6:DD:131:ILE:O	6:DD:134:THR:OG1	2.22	0.52
7:ED:36:LYS:HZ1	29:ED:201:PEB:HBB2	1.74	0.52
6:FD:151:GLU:CD	6:FD:151:GLU:N	2.68	0.52
6:HD:34:SER:HA	6:HD:37:ARG:HE	1.73	0.52
6:JD:47:ASN:O	6:JD:51:VAL:HG22	2.10	0.52
7:KD:53:SER:OG	7:KD:54:ASP:N	2.41	0.52
7:BE:37:ARG:HA	7:BE:161:LEU:HD21	1.92	0.52
7:LE:51:MET:HE1	7:LE:137:GLN:HB3	0.63	0.52
1:XF:68:PRO:HG3	2:AF:57:VAL:HG13	1.92	0.52
7:gF:107:ASP:OD1	7:gF:107:ASP:N	2.28	0.52
7:JG:106:GLU:O	7:JG:111:ASN:ND2	2.43	0.52
7:LG:113:LEU:CD1	14:MG:236:TYR:CZ	2.85	0.52
7:TJ:110:LEU:HD21	7:TJ:172:VAL:HG13	1.91	0.52
6:cJ:138:LEU:HD12	29:cJ:202:PEB:C2D	2.39	0.52
6:mJ:108:TRP:HZ3	7:nJ:9:VAL:HG12	1.75	0.52
7:pJ:110:LEU:HD21	7:pJ:172:VAL:HG13	1.91	0.52
2:AK:35:THR:O	6:QK:118:ARG:NH2	2.42	0.52
3:BK:91:ALA:HB3	4:GK:15:GLN:NE2	2.22	0.52
6:fK:54:GLU:O	6:fK:54:GLU:HG2	2.09	0.52
6:AL:139:CYS:SG	29:AL:202:PEB:CHA	2.94	0.52
7:LL:26:ALA:HB1	28:bP:228:ILE:O	2.10	0.52
7:LL:110:LEU:HD21	7:LL:172:VAL:HG13	1.91	0.52
7:XL:110:LEU:HD21	7:XL:172:VAL:HG13	1.91	0.52
7:fL:125:ASN:N	7:fL:125:ASN:OD1	2.41	0.52
6:iL:73:GLY:CA	6:iL:78:LYS:HG3	2.39	0.52
6:kL:112:GLY:O	7:tL:80:ALA:HB2	2.08	0.52
6:EM:91:ARG:HD3	7:FM:18:TYR:CE1	2.45	0.52
7:gM:84:ARG:HH11	7:gM:84:ARG:CG	2.23	0.52
7:DN:75:THR:HG21	6:KN:108:TRP:HD1	1.75	0.52
6:IN:62:LYS:NZ	6:IN:129:ALA:O	2.43	0.52
7:LN:60:ILE:HD11	7:LN:67:ILE:HB	1.91	0.52
6:AO:48:HIS:CD2	6:AO:49:GLU:HG3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DP:109:LEU:HD13	21:DP:159:GLY:HA3	1.91	0.52
20:CP:89:LEU:HB2	20:CP:133:MET:HE1	1.90	0.52
21:FP:16:GLY:HA2	20:EP:90:ARG:CZ	2.40	0.52
21:IP:109:LEU:HD13	21:IP:159:GLY:HA3	1.91	0.52
21:MP:109:LEU:HD13	21:MP:159:GLY:HA3	1.91	0.52
21:OP:57:ALA:HA	21:OP:61:LEU:HB2	1.92	0.52
21:QP:109:LEU:HD13	21:QP:159:GLY:HA3	1.91	0.52
21:dP:90:ARG:NE	20:eP:15:ALA:C	2.68	0.52
20:iP:64:ASP:OD1	20:iP:64:ASP:N	2.42	0.52
21:kP:131:GLN:HG3	25:1P:658:LEU:HD11	1.91	0.52
21:uP:137:THR:O	21:uP:141:VAL:HG22	2.10	0.52
21:wP:109:LEU:HD13	21:wP:159:GLY:HA3	1.91	0.52
25:1P:667:LEU:HD23	25:1P:668:LYS:H	1.75	0.52
7:BQ:125:ASN:HA	7:BQ:128:ILE:HG12	1.92	0.52
7:DQ:47:ASN:O	7:DQ:51:MET:N	2.42	0.52
14:MQ:174:ARG:N	14:MQ:174:ARG:CD	2.73	0.52
14:MQ:250:ILE:HG12	14:MQ:255:TYR:HA	1.91	0.52
7:NR:65:GLY:O	7:NR:68:SER:OG	2.26	0.52
7:TR:110:LEU:HD21	7:TR:172:VAL:HA	1.92	0.52
7:XR:110:LEU:HD11	7:XR:172:VAL:HG22	1.91	0.52
3:B1:58:HIS:NE2	5:L1:80:ALA:O	2.43	0.52
5:H1:145:THR:O	5:H1:148:THR:CG2	2.58	0.52
7:V1:160[B]:SER:HA	14:MA:103:ARG:HD3	1.91	0.52
7:R2:110:LEU:HD11	7:R2:172:VAL:HG22	1.91	0.52
6:W2:43:LYS:O	29:W2:202:PEB:HBD1	2.09	0.52
7:X2:110:LEU:HD11	7:X2:172:VAL:HG22	1.91	0.52
6:E3:1:MET:SD	6:E3:1:MET:N	2.80	0.52
6:K3:56:GLY:CA	6:K3:83:TYR:HE1	2.11	0.52
6:L4:140:VAL:HG22	6:L4:146:ALA:HA	1.92	0.52
7:M4:51:MET:HE2	7:M4:141:PHE:CE2	2.45	0.52
7:L5:116:THR:CG2	13:k6:284:LEU:CD2	2.80	0.52
2:A7:34:LEU:N	6:Z7:164:SER:OXT	2.42	0.52
3:B7:188:PHE:HB3	3:B7:192:LEU:HD21	1.91	0.52
7:R7:35:ASN:ND2	29:R7:202:PEB:OD	2.42	0.52
7:i7:35:ASN:ND2	29:i7:202:PEB:OD	2.42	0.52
7:I8:7:ARG:HH21	28:4P:88:LEU:HD22	1.74	0.52
4:I9:73:ALA:HA	31:I9:1001:CYC:HBD2	1.91	0.52
6:Q9:30:ASN:OD1	6:Q9:37:ARG:NH2	2.40	0.52
7:V9:150:LYS:CA	13:kH:61:ARG:HH12	2.22	0.52
7:i9:35:ASN:ND2	29:i9:202:PEB:OD	2.42	0.52
6:j9:6:THR:HB	7:k9:1:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:k9:35:ASN:ND2	29:k9:202:PEB:OD	2.42	0.52
6:CA:21:ASN:N	6:CA:21:ASN:OD1	2.42	0.52
6:CA:62:LYS:NZ	6:CA:129:ALA:O	2.43	0.52
7:FA:60:ILE:HD11	7:FA:67:ILE:HB	1.91	0.52
6:IA:118:ARG:NH2	6:IA:122:LEU:O	2.42	0.52
7:HB:58:GLY:O	7:HB:62:GLU:HG3	2.09	0.52
7:NB:25:GLN:CG	21:MP:147:LYS:HB3	2.28	0.52
29:CC:201:PEB:HMD1	7:HC:76:ASN:HD21	1.75	0.52
7:ED:172:VAL:O	7:ED:176:ILE:HG12	2.10	0.52
7:GD:172:VAL:O	7:GD:176:ILE:HG12	2.10	0.52
7:ID:39:ASP:OD1	29:ID:202:PEB:HMD3	2.10	0.52
7:MD:172:VAL:O	7:MD:176:ILE:HG12	2.10	0.52
7:BE:47:ASN:OD1	7:BE:149:ARG:NH1	2.42	0.52
6:IE:37:ARG:NH1	6:IE:98:VAL:O	2.42	0.52
5:NF:41:VAL:HG11	5:NF:98:ILE:CG2	2.39	0.52
6:OF:6:THR:O	7:PF:1:MET:HE1	2.10	0.52
6:AG:2:LYS:NZ	30:MG:403:PUB:CBB	2.71	0.52
6:AG:128:VAL:HA	6:AG:131:ILE:HG12	1.92	0.52
5:JI:111:ASN:CG	27:aP:124:TRP:HZ3	2.17	0.52
7:kI:1:MET:CE	7:kI:104:VAL:HG23	2.28	0.52
29:BJ:201:PEB:HBC1	19:zJ:119:SER:HA	1.92	0.52
7:hJ:125:ASN:OD1	7:hJ:125:ASN:N	2.41	0.52
7:jJ:125:ASN:N	7:jJ:125:ASN:OD1	2.41	0.52
7:lJ:110:LEU:HD21	7:lJ:172:VAL:HG13	1.91	0.52
16:wJ:138:GLU:HA	16:wJ:141:MET:HB2	1.92	0.52
29:BL:201:PEB:HBC1	19:zL:119:SER:HA	1.92	0.52
7:FL:25:GLN:HA	7:FL:28:LYS:HB2	1.90	0.52
6:GL:97:LEU:HD11	6:GL:152:PHE:HD1	1.75	0.52
7:rL:125:ASN:N	7:rL:125:ASN:OD1	2.41	0.52
6:uL:137:ARG:O	6:uL:137:ARG:NH1	2.42	0.52
16:wL:138:GLU:HA	16:wL:141:MET:HB2	1.92	0.52
6:CM:50:ALA:O	29:CM:202:PEB:CMC	2.58	0.52
7:TM:24:LEU:N	7:TM:24:LEU:CD2	2.73	0.52
7:kM:47:ASN:OD1	7:kM:149:ARG:NH1	2.42	0.52
6:CO:24:LEU:HD23	29:DO:202:PEB:HAD1	1.91	0.52
7:LO:42:ASN:O	7:LO:46:SER:OG	2.26	0.52
9:OO:134:ARG:HG2	9:OO:138:MET:HB3	1.91	0.52
9:OO:248:ILE:HG22	9:OO:250:VAL:H	1.74	0.52
21:DP:15:GLN:HE22	23:WP:137:GLN:CB	2.23	0.52
20:CP:76:GLU:HA	20:CP:76:GLU:OE1	2.10	0.52
20:RP:71:ASN:ND2	20:RP:121:THR:OG1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:TP:89:LEU:HB2	20:TP:133:MET:HE1	1.90	0.52
20:TP:127:ALA:CB	27:aP:250:VAL:HG21	2.39	0.52
21:qP:137:THR:O	21:qP:141:VAL:HG22	2.10	0.52
20:tP:76:GLU:OE1	20:tP:76:GLU:HA	2.10	0.52
7:HQ:47:ASN:O	7:HQ:51:MET:N	2.42	0.52
6:IQ:93:VAL:HG11	6:IQ:156:LEU:HG	1.91	0.52
29:MQ:403:PEB:NB	29:MQ:403:PEB:NC	2.57	0.52
8:eR:167:ARG:NH2	8:eR:174:GLU:OE2	2.41	0.52
7:PR:40:ALA:O	7:PR:43:SER:OG	2.25	0.52
29:SR:201:PEB:HNA	29:SR:201:PEB:HMB2	1.74	0.52
7:VR:110:LEU:HD11	7:VR:172:VAL:HG22	1.91	0.52
7:VR:133:ILE:HG23	29:VR:203:PEB:HBC2	1.92	0.52
6:O1:54:GLU:HG2	6:O1:54:GLU:O	2.09	0.51
6:W1:53:LYS:CD	6:W1:53:LYS:N	2.73	0.51
6:M2:107:GLU:O	7:V2:77:ARG:CD	2.55	0.51
7:V2:85:ASP:OD1	29:V2:201:PEB:H1D1	2.10	0.51
6:W2:57:ASP:OD1	6:W2:58:ALA:N	2.43	0.51
10:d4:298:TYR:CE2	5:FF:15:ARG:HG3	2.45	0.51
6:B4:47:ASN:O	6:B4:51:VAL:HG22	2.10	0.51
6:D4:140:VAL:HG22	6:D4:146:ALA:HA	1.92	0.51
6:J4:140:VAL:HG22	6:J4:146:ALA:HA	1.92	0.51
7:M4:88:ILE:HA	7:M4:91:ARG:HD2	1.92	0.51
7:I5:66:LEU:HB3	7:I5:73:CYS:HB2	1.92	0.51
7:L5:129:ARG:NH2	7:L5:132:SER:OG	2.43	0.51
13:k6:136:ARG:O	13:k6:140:GLY:HA2	2.09	0.51
4:C7:57:GLN:HE21	4:GF:61:ASN:HB3	1.73	0.51
6:S7:54:GLU:OE2	6:S7:137:ARG:HD2	2.09	0.51
6:U7:37:ARG:NH1	6:U7:98:VAL:O	2.43	0.51
7:g7:35:ASN:ND2	29:g7:202:PEB:OD	2.42	0.51
6:j7:26:SER:HB3	6:l7:26:SER:HB3	1.92	0.51
7:I8:27:LEU:N	7:I8:27:LEU:CD1	2.73	0.51
1:X9:74:PHE:HA	6:S9:107:GLU:OE2	2.10	0.51
3:B9:58:HIS:ND1	31:N9:1001:CYC:O1A	2.43	0.51
3:B9:198:SER:OG	5:N9:69:PRO:O	2.28	0.51
4:E9:28:ASN:OD1	4:E9:32:GLN:NE2	2.40	0.51
4:E9:118:ILE:HD13	31:E9:1001:CYC:HMA3	1.92	0.51
4:G9:118:ILE:HD13	31:G9:1001:CYC:HMA3	1.92	0.51
5:J9:16:GLY:HA3	5:L9:69:PRO:HB3	1.92	0.51
4:K9:142:LEU:HD13	4:K9:146:VAL:HG12	1.91	0.51
5:N9:102:SER:HB3	26:ZP:96:VAL:O	2.09	0.51
7:T9:35:ASN:ND2	29:T9:202:PEB:OD	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y9:35:ASN:ND2	29:Y9:202:PEB:OD	2.42	0.51
7:e9:35:ASN:ND2	29:e9:202:PEB:OD	2.42	0.51
7:g9:35:ASN:ND2	29:g9:202:PEB:OD	2.42	0.51
6:GA:118:ARG:NH2	6:GA:122:LEU:O	2.43	0.51
17:BB:181:THR:CB	29:BB:301:PEB:HBA2	2.34	0.51
7:NB:47:ASN:OD1	7:NB:149:ARG:NH1	2.42	0.51
7:gB:84:ARG:HH11	7:gB:84:ARG:CG	2.23	0.51
7:DC:37:ARG:HA	7:DC:161:LEU:HD21	1.92	0.51
7:DC:123:PRO:CA	6:QF:69:PRO:HG2	2.39	0.51
29:LC:201:PEB:CGB	18:MC:219:SER:HB3	2.40	0.51
10:dD:89:MET:O	10:dD:93:ARG:N	2.41	0.51
6:BD:1:MET:SD	6:BD:107:GLU:OE1	2.68	0.51
6:BD:68:ASN:HB2	6:BD:71:GLU:HG2	1.91	0.51
6:BD:142:ARG:HD2	29:BD:202:PEB:HHA1	1.93	0.51
7:CD:77:ARG:HH21	7:CD:78:ARG:HG2	1.75	0.51
6:FD:44:LEU:HD23	6:FD:94:ASN:HB2	1.91	0.51
7:GD:53:SER:OG	7:GD:54:ASP:N	2.41	0.51
6:HD:81:LYS:HD2	6:HD:81:LYS:C	2.35	0.51
6:HD:140:VAL:HG22	6:HD:146:ALA:HA	1.92	0.51
7:ID:172:VAL:O	7:ID:176:ILE:HG12	2.10	0.51
6:JD:140:VAL:HG22	6:JD:146:ALA:HA	1.92	0.51
7:KD:106:GLU:N	7:KD:106:GLU:OE2	2.41	0.51
18:ME:116:ALA:O	18:ME:120:ARG:NH2	2.42	0.51
7:mF:40:ALA:HB1	7:mF:142:ILE:HD12	1.93	0.51
7:HG:47:ASN:O	7:HG:51:MET:N	2.42	0.51
5:JI:65:GLN:HG3	20:PP:68:PRO:CA	2.40	0.51
5:LI:106:ASP:OD2	5:LI:166:ARG:NH1	2.42	0.51
7:iI:40:ALA:HB1	7:iI:142:ILE:HD12	1.93	0.51
7:IJ:125:ASN:N	7:IJ:125:ASN:OD1	2.41	0.51
2:AK:210:GLY:HA3	6:jK:2:LYS:HD3	1.92	0.51
3:BK:156:ASP:N	3:BK:156:ASP:OD1	2.43	0.51
3:BK:204:ARG:HD3	3:BK:204:ARG:N	2.24	0.51
6:IL:138:LEU:HB2	29:IL:202:PEB:HMD3	1.92	0.51
6:IL:138:LEU:HB2	29:IL:202:PEB:CMD	2.40	0.51
7:LL:125:ASN:N	7:LL:125:ASN:OD1	2.41	0.51
6:UL:63:TYR:CB	6:UL:66:LEU:HD12	2.39	0.51
7:VL:33:ASP:OD1	7:VL:36:LYS:HE3	2.10	0.51
7:VL:110:LEU:HD21	7:VL:172:VAL:HG13	1.91	0.51
7:XL:33:ASP:OD1	7:XL:36:LYS:HE3	2.10	0.51
15:bM:198:ARG:HH21	15:bM:201:TYR:HD1	1.58	0.51
6:CM:50:ALA:O	29:CM:202:PEB:HMC2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:JM:149:ARG:HE	7:JM:151:MET:HG2	1.75	0.51
29:FN:201:PEB:CAD	14:MN:181:TYR:CE2	2.92	0.51
6:KN:62:LYS:NZ	6:KN:129:ALA:O	2.43	0.51
14:MN:296:ASN:CA	14:MN:299:ARG:HG3	2.40	0.51
21:FP:109:LEU:HD13	21:FP:159:GLY:HA3	1.91	0.51
20:EP:13:ALA:HB1	25:YP:509:PHE:CE2	2.46	0.51
20:EP:49:ARG:NH2	21:wP:140:LEU:HD11	2.26	0.51
21:BP:60:LEU:HD13	21:BP:72:MET:SD	2.50	0.51
21:BP:137:THR:O	21:BP:141:VAL:HG22	2.10	0.51
21:MP:137:THR:O	21:MP:141:VAL:HG22	2.10	0.51
20:NP:76:GLU:OE1	20:NP:76:GLU:HA	2.10	0.51
20:TP:29:PHE:HB2	27:aP:156:PHE:CE1	2.45	0.51
21:UP:137:THR:O	21:UP:141:VAL:HG22	2.10	0.51
23:WP:41:ALA:CB	23:WP:103:ILE:HD11	2.40	0.51
27:aP:287:LEU:N	27:aP:287:LEU:CD1	2.73	0.51
20:cP:23:LEU:CD2	21:hP:38:VAL:HG13	2.32	0.51
21:dP:109:LEU:HD13	21:dP:159:GLY:HA3	1.91	0.51
21:nP:109:LEU:HD13	21:nP:159:GLY:HA3	1.91	0.51
21:oP:137:THR:O	21:oP:141:VAL:HG22	2.10	0.51
22:xP:38:ARG:O	22:xP:41:SER:HB3	2.10	0.51
6:AQ:33:ARG:HD2	29:DQ:202:PEB:OD	2.10	0.51
7:DQ:106:GLU:O	7:DQ:111:ASN:ND2	2.43	0.51
7:FQ:157:ASP:OD2	7:FQ:159:THR:OG1	2.27	0.51
7:JQ:106:GLU:O	7:JQ:111:ASN:ND2	2.43	0.51
8:eR:279:ILE:HG13	8:eR:280:SER:H	1.74	0.51
6:MR:48:HIS:O	6:MR:52:VAL:HG22	2.10	0.51
6:OR:112:GLY:O	6:OR:116:VAL:HG23	2.09	0.51
6:UR:57:ASP:OD1	6:UR:58:ALA:N	2.42	0.51
7:VR:84:ARG:C	7:VR:87:GLU:HG2	2.35	0.51
5:F1:65:GLN:HA	5:F1:68:GLN:HB2	1.93	0.51
5:N1:19:LEU:HD12	5:N1:23:GLN:CB	2.40	0.51
8:e2:85:PRO:HB3	7:N2:107:ASP:HB2	1.91	0.51
8:e2:301:PHE:HE1	5:F7:17:GLU:HB2	1.75	0.51
6:M2:57:ASP:OD1	6:M2:58:ALA:N	2.42	0.51
6:M2:108:TRP:O	7:V2:75:THR:OG1	2.28	0.51
10:d4:325:VAL:HB	10:d4:329:MET:HE2	1.92	0.51
6:F4:47:ASN:O	6:F4:51:VAL:HG22	2.11	0.51
6:H4:47:ASN:O	6:H4:51:VAL:HG22	2.11	0.51
6:L4:68:ASN:HB2	6:L4:71:GLU:HG2	1.91	0.51
12:E5:233:TYR:CZ	29:l9:202:PEB:H3A1	2.40	0.51
5:L7:166:ARG:HD2	27:aP:235:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K8:76:ASN:HD22	7:LO:4:ALA:HB1	1.75	0.51
7:K8:79:MET:HE2	7:LO:164:GLU:CD	2.24	0.51
1:X9:319:LYS:NZ	4:G9:116:GLU:OE2	2.43	0.51
3:B9:17:VAL:HB	5:J9:84:ARG:HH22	1.76	0.51
6:S9:54:GLU:OE2	6:S9:137:ARG:HD2	2.09	0.51
6:U9:37:ARG:NH1	6:U9:98:VAL:O	2.43	0.51
6:W9:37:ARG:NH1	6:W9:98:VAL:O	2.43	0.51
7:a9:106:GLU:OE2	7:a9:171:ARG:CZ	2.59	0.51
6:EA:62:LYS:NZ	6:EA:129:ALA:O	2.43	0.51
7:FB:139:VAL:HG12	7:FB:162:ALA:HB1	1.91	0.51
7:BC:73:CYS:C	7:BC:79:MET:SD	2.87	0.51
7:LC:110:LEU:HD11	7:LC:172:VAL:HG13	1.91	0.51
18:MC:237:PHE:CD1	18:MC:237:PHE:C	2.88	0.51
10:dD:170:GLU:O	10:dD:173:SER:OG	2.29	0.51
6:BD:151:GLU:CD	6:BD:151:GLU:N	2.68	0.51
7:CD:39:ASP:OD1	29:CD:202:PEB:HMD3	2.10	0.51
6:HD:96:CYS:HB3	6:HD:155:TYR:CE1	2.44	0.51
6:HD:151:GLU:CD	6:HD:151:GLU:N	2.68	0.51
6:LD:44:LEU:HD23	6:LD:94:ASN:HB2	1.91	0.51
6:LD:81:LYS:C	6:LD:81:LYS:HD2	2.35	0.51
7:LE:110:LEU:HD11	7:LE:172:VAL:HG13	1.91	0.51
18:ME:61:VAL:HA	18:ME:98:LEU:HD22	1.91	0.51
18:ME:215:THR:O	18:ME:217:SER:CA	2.55	0.51
6:bF:17:ARG:O	7:cF:95:TYR:OH	2.25	0.51
7:gF:40:ALA:HB1	7:gF:142:ILE:HD12	1.93	0.51
6:AG:31:ILE:O	6:AG:34:SER:OG	2.20	0.51
7:BG:153:PHE:HB2	29:BG:202:PEB:HMA3	1.93	0.51
7:FG:153:PHE:HB2	29:FG:202:PEB:HMA3	1.93	0.51
6:GG:128:VAL:HA	6:GG:131:ILE:HG12	1.92	0.51
6:GG:136:ASP:OD1	6:GG:136:ASP:N	2.30	0.51
6:IG:128:VAL:HA	6:IG:131:ILE:HG12	1.92	0.51
7:LG:154:ALA:O	29:LG:202:PEB:NA	2.32	0.51
13:kH:13:GLU:OE1	13:kH:136:ARG:NH1	2.43	0.51
7:lJ:33:ASP:N	7:lJ:33:ASP:OD1	2.43	0.51
16:wJ:265:ALA:O	16:wJ:267:ARG:NH2	2.43	0.51
5:DK:65:GLN:HA	5:DK:68:GLN:HB2	1.93	0.51
5:HK:145:THR:O	5:HK:148:THR:CG2	2.58	0.51
5:JK:165:ASP:N	5:JK:165:ASP:OD1	2.40	0.51
6:UK:54:GLU:O	6:UK:54:GLU:HG2	2.09	0.51
7:gK:171:ARG:CZ	14:MN:97:PHE:CE1	2.88	0.51
7:XL:125:ASN:OD1	7:XL:125:ASN:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:xL:234:ARG:HH11	16:xL:260:PRO:HG2	1.75	0.51
6:CN:118:ARG:NH2	6:CN:122:LEU:O	2.43	0.51
6:AO:138:LEU:HD21	6:AO:149:GLY:HA2	1.92	0.51
9:OO:278:ALA:O	9:OO:282:ARG:NH2	2.43	0.51
20:AP:64:ASP:OD1	20:AP:64:ASP:N	2.42	0.51
25:YP:142:PRO:O	25:YP:146:LYS:HG3	2.10	0.51
21:dP:15:GLN:NE2	23:yP:133:ILE:O	2.43	0.51
20:gP:64:ASP:OD1	20:gP:64:ASP:N	2.42	0.51
20:iP:89:LEU:HB2	20:iP:133:MET:HE1	1.91	0.51
21:jP:137:THR:O	21:jP:141:VAL:HG22	2.10	0.51
20:lP:64:ASP:OD1	20:lP:64:ASP:N	2.42	0.51
25:1P:36:GLU:N	25:1P:39:GLU:OE1	2.42	0.51
25:1P:142:PRO:O	25:1P:146:LYS:HG3	2.11	0.51
6:AQ:37:ARG:NH2	6:AQ:38:LEU:HD21	2.25	0.51
7:FQ:106:GLU:O	7:FQ:111:ASN:ND2	2.43	0.51
7:LQ:106:GLU:O	7:LQ:111:ASN:ND2	2.43	0.51
7:TR:40:ALA:O	7:TR:43:SER:OG	2.25	0.51
6:WR:137:ARG:NH2	29:WR:202:PEB:C1C	2.73	0.51
5:F1:20:SER:N	5:F1:23:GLN:HE21	2.08	0.51
5:J1:17:GLU:HG3	15:bB:333:ARG:HD2	1.93	0.51
6:S2:140:VAL:HG11	6:S2:146:ALA:HA	1.91	0.51
6:W2:116:VAL:HG13	6:W2:120:LEU:CD1	2.38	0.51
6:A3:48:HIS:CD2	6:A3:49:GLU:HG3	2.45	0.51
9:O3:216:MET:O	9:O3:220:ASN:ND2	2.44	0.51
9:O3:278:ALA:O	9:O3:282:ARG:NH2	2.43	0.51
10:d4:170:GLU:O	10:d4:173:SER:OG	2.29	0.51
7:C4:46:SER:HB2	6:D4:157:ASP:OD2	2.09	0.51
7:C4:51:MET:CE	7:C4:141:PHE:HE2	2.22	0.51
6:H4:137:ARG:NH1	29:H4:202:PEB:O1B	2.43	0.51
7:I4:39:ASP:OD1	29:I4:202:PEB:HMD3	2.10	0.51
6:L4:47:ASN:O	6:L4:51:VAL:HG22	2.11	0.51
4:E7:73:ALA:HA	31:E7:1001:CYC:HBD2	1.91	0.51
4:E7:77:SER:OG	4:E7:78:ALA:N	2.44	0.51
4:I7:17:ARG:O	5:J7:95:TYR:OH	2.28	0.51
5:N7:139:VAL:O	5:N7:143:ASN:OD1	2.28	0.51
6:d7:37:ARG:NH1	6:d7:98:VAL:O	2.43	0.51
7:A8:66:LEU:HB3	7:A8:73:CYS:HB2	1.92	0.51
29:A8:201:PEB:O1C	11:D8:205:HIS:NE2	2.41	0.51
4:C9:142:LEU:HD13	4:C9:146:VAL:HG12	1.91	0.51
6:W9:149:GLY:O	6:W9:153:SER:OG	2.29	0.51
6:EA:118:ARG:NH2	6:EA:122:LEU:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LA:37:ARG:NH2	7:LA:164:GLU:OE1	2.38	0.51
14:MA:153:MET:HA	14:MA:156:ASN:HD22	1.75	0.51
14:MA:238:GLN:HE21	14:MA:325:SER:HB3	1.74	0.51
15:bB:260:ALA:HB2	15:bB:279:LEU:HD21	1.92	0.51
15:bB:323:ARG:O	15:bB:327:LYS:HG3	2.10	0.51
6:CB:50:ALA:O	29:CB:202:PEB:CMC	2.58	0.51
6:EB:91:ARG:HD3	7:FB:18:TYR:CE1	2.45	0.51
6:QB:54:GLU:O	6:QB:57:ASP:OD1	2.27	0.51
6:KC:157:ASP:O	6:KC:161:ASN:ND2	2.42	0.51
6:DD:54:GLU:HG2	6:DD:137:ARG:HD2	1.92	0.51
7:GD:106:GLU:N	7:GD:106:GLU:OE2	2.41	0.51
7:ID:106:GLU:N	7:ID:106:GLU:OE2	2.41	0.51
6:AE:81:LYS:NZ	29:AE:201:PEB:O2C	2.41	0.51
7:LE:120:LEU:CD1	18:ME:213:THR:HG21	2.06	0.51
18:ME:236:ASP:HA	29:SI:202:PEB:HMA3	1.92	0.51
4:GF:17:ARG:O	5:HF:95:TYR:OH	2.27	0.51
7:eF:40:ALA:HB1	7:eF:142:ILE:HD12	1.93	0.51
6:EG:128:VAL:HA	6:EG:131:ILE:HG12	1.92	0.51
7:LG:115:GLU:HG2	14:MG:232:LYS:HB3	1.93	0.51
13:kH:31:ALA:O	13:kH:35:ILE:HG13	2.11	0.51
13:kH:204:GLN:HB3	13:kH:205:PRO:HD2	1.92	0.51
1:XI:138:ARG:NH2	1:XI:237:ASP:O	2.42	0.51
7:RI:40:ALA:HB1	7:RI:142:ILE:HD12	1.93	0.51
7:YI:40:ALA:HB1	7:YI:142:ILE:HD12	1.93	0.51
7:LJ:100:GLY:O	28:4P:227:VAL:HG21	2.11	0.51
7:NJ:125:ASN:N	7:NJ:125:ASN:OD1	2.41	0.51
29:IJ:201:PEB:O1C	16:xJ:251:TYR:HE2	1.86	0.51
7:rJ:110:LEU:HD21	7:rJ:172:VAL:HG13	1.91	0.51
16:wJ:105:ARG:HG2	29:wJ:303:PEB:O1B	2.09	0.51
3:BK:58:HIS:NE2	5:LK:80:ALA:O	2.43	0.51
5:LK:40:ILE:CD1	29:LK:1002:PEB:HBA1	2.38	0.51
7:HL:60:ILE:CG2	7:HL:67:ILE:HG12	2.41	0.51
7:PL:5:PHE:HZ	7:PL:31:ILE:CG1	2.23	0.51
7:RL:110:LEU:HD21	7:RL:172:VAL:HG13	1.91	0.51
7:TL:110:LEU:HD21	7:TL:172:VAL:HG13	1.91	0.51
7:IL:125:ASN:OD1	7:IL:125:ASN:N	2.41	0.51
16:xL:138:GLU:HA	16:xL:141:MET:HB2	1.92	0.51
15:bM:335:ILE:HG12	15:bM:340:GLU:CD	2.36	0.51
15:bM:373:GLU:H	15:bM:373:GLU:CD	2.18	0.51
6:AN:5:ILE:HD11	6:AN:27:ILE:HD12	1.80	0.51
6:AN:149:GLY:O	6:AN:153:SER:OG	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HN:82:CYS:HA	29:HN:201:PEB:HHA1	1.92	0.51
6:CO:138:LEU:HD21	6:CO:149:GLY:HA2	1.92	0.51
9:OO:216:MET:O	9:OO:220:ASN:ND2	2.44	0.51
20:CP:148:GLU:O	20:CP:151:PHE:HB2	2.11	0.51
21:FP:137:THR:O	21:FP:141:VAL:HG22	2.10	0.51
20:EP:76:GLU:OE1	20:EP:76:GLU:HA	2.10	0.51
21:LP:9:ILE:CD1	22:VP:97:LEU:HD23	2.40	0.51
25:YP:749:ILE:O	25:YP:753:LYS:HG2	2.10	0.51
26:ZP:47:GLN:HG3	26:ZP:48:LEU:HG	1.92	0.51
20:cP:76:GLU:OE1	20:cP:76:GLU:HA	2.10	0.51
21:dP:137:THR:O	21:dP:141:VAL:HG22	2.10	0.51
21:fP:137:THR:O	21:fP:141:VAL:HG22	2.10	0.51
21:jP:109:LEU:HD13	21:jP:159:GLY:HA3	1.91	0.51
21:oP:1:MET:HE1	20:pP:8:ILE:HG22	1.92	0.51
21:uP:57:ALA:HA	21:uP:61:LEU:HB2	1.92	0.51
21:uP:87:TYR:OH	25:1P:811:ALA:HA	2.09	0.51
22:xP:154:ASP:OD2	23:yP:46:LYS:HG3	2.11	0.51
7:BQ:136:ALA:C	29:BQ:203:PEB:O1C	2.53	0.51
7:JQ:125:ASN:HA	7:JQ:128:ILE:HG12	1.92	0.51
6:MR:137:ARG:HH21	29:MR:202:PEB:C4B	2.24	0.51
7:NR:85:ASP:OD1	29:NR:201:PEB:H1D1	2.10	0.51
7:NR:133:ILE:HG23	29:NR:203:PEB:HBC2	1.91	0.51
2:A1:210:GLY:HA3	6:j1:2:LYS:HD3	1.92	0.51
5:J1:17:GLU:CG	15:bB:333:ARG:CD	2.88	0.51
5:J1:47:ASN:ND2	5:J1:141:LEU:CD2	2.71	0.51
8:e2:108:HIS:HA	7:P2:84:ARG:NH2	2.25	0.51
7:N2:85:ASP:OD1	29:N2:201:PEB:H1D1	2.10	0.51
7:N2:110:LEU:HD11	7:N2:172:VAL:HG22	1.91	0.51
6:O2:91:ARG:NH1	6:O2:95:TYR:HE2	2.08	0.51
7:V2:39:ASP:OD1	29:V2:202:PEB:HMD3	2.10	0.51
7:X2:133:ILE:HG23	29:X2:202:PEB:HBC2	1.92	0.51
7:F3:129:ARG:NH1	7:M3:149:ARG:HH12	2.08	0.51
6:I3:140:VAL:HG12	6:I3:146:ALA:CA	2.33	0.51
7:J3:84:ARG:NH1	9:O3:63:TYR:HB3	2.25	0.51
7:N3:66:LEU:HD11	7:VL:155:ALA:HB1	1.89	0.51
7:N3:70:GLY:O	29:WL:201:PEB:HAB2	2.10	0.51
6:F4:81:LYS:NZ	6:F4:85:ASP:OD2	2.44	0.51
6:H4:13:ASP:OD2	7:I4:108:ARG:NH2	2.43	0.51
7:I4:172:VAL:O	7:I4:176:ILE:HG12	2.10	0.51
6:J4:151:GLU:CD	6:J4:151:GLU:N	2.68	0.51
6:L4:81:LYS:NZ	6:L4:85:ASP:OD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I5:1:MET:HG2	28:bP:118:LEU:CD2	2.40	0.51
7:I5:27:LEU:N	7:I5:27:LEU:CD1	2.73	0.51
7:A5:66:LEU:HB3	7:A5:73:CYS:HB2	1.92	0.51
12:E5:173:PHE:HE2	6:ZI:83:TYR:CE2	2.23	0.51
4:C7:73:ALA:HA	31:C7:1001:CYC:HBD2	1.91	0.51
4:E7:118:ILE:HD13	31:E7:1001:CYC:HMA3	1.92	0.51
4:M7:73:ALA:HA	31:M7:1001:CYC:HBD2	1.91	0.51
4:M7:79:ILE:HD13	20:JP:41:GLN:NE2	2.25	0.51
6:Q7:37:ARG:NH1	6:Q7:98:VAL:O	2.43	0.51
6:b7:37:ARG:NH1	6:b7:98:VAL:O	2.43	0.51
7:F8:129:ARG:NH2	7:F8:132:SER:OG	2.43	0.51
29:L8:203:PEB:OD	13:kH:237:ILE:CG2	2.43	0.51
1:X9:311:ILE:HB	4:G9:14:ASN:HD21	1.76	0.51
6:S9:54:GLU:HG2	6:S9:133:TYR:CE2	2.32	0.51
7:a9:35:ASN:ND2	29:a9:202:PEB:OD	2.42	0.51
6:f9:26:SER:HB3	6:h9:26:SER:HB3	1.93	0.51
6:KA:118:ARG:NH2	6:KA:122:LEU:O	2.42	0.51
15:bB:202:THR:HG23	15:bB:203:PRO:HD3	0.77	0.51
15:bB:349:LYS:CG	20:KP:68:PRO:HB2	2.36	0.51
6:EC:102:THR:O	6:EC:102:THR:OG1	2.29	0.51
7:ED:53:SER:OG	7:ED:54:ASP:N	2.41	0.51
7:MD:67:ILE:O	7:MD:67:ILE:CG2	2.58	0.51
7:JE:37:ARG:HA	7:JE:161:LEU:HD21	1.92	0.51
6:KE:102:THR:O	6:KE:102:THR:OG1	2.29	0.51
1:XF:138:ARG:NH2	1:XF:237:ASP:O	2.42	0.51
4:GF:145:GLN:HG3	29:JF:1002:PEB:HMC2	1.91	0.51
5:JF:166:ARG:NH2	27:3P:86:LYS:NZ	2.59	0.51
5:LF:75:THR:HG22	5:LF:77:ARG:H	1.76	0.51
7:PF:107:ASP:OD1	7:PF:107:ASP:N	2.36	0.51
7:RF:40:ALA:HB1	7:RF:142:ILE:HD12	1.93	0.51
7:VF:40:ALA:HB1	7:VF:142:ILE:HD12	1.93	0.51
6:AG:33:ARG:HD2	29:DG:202:PEB:C4D	2.40	0.51
7:BG:106:GLU:O	7:BG:111:ASN:ND2	2.43	0.51
7:HG:153:PHE:HB2	29:HG:202:PEB:HMA3	1.93	0.51
6:KG:128:VAL:HA	6:KG:131:ILE:HG12	1.92	0.51
14:MG:243:MET:C	14:MG:243:MET:SD	2.94	0.51
13:kH:178:LYS:HA	13:kH:178:LYS:HE2	1.93	0.51
5:JI:63:GLN:HG3	20:PP:73:TYR:CZ	2.46	0.51
4:MI:38:LEU:HG	4:MI:100:VAL:HG12	1.91	0.51
7:YI:33:ASP:HB2	7:YI:36:LYS:HD3	1.91	0.51
7:kI:40:ALA:HB1	7:kI:142:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AJ:139:CYS:SG	29:AJ:202:PEB:CHA	2.94	0.51
7:BJ:110:LEU:HD21	7:BJ:172:VAL:HG13	1.91	0.51
7:NJ:30:PHE:CD1	7:NJ:30:PHE:C	2.89	0.51
7:NJ:110:LEU:HD21	7:NJ:172:VAL:HG13	1.91	0.51
7:PJ:5:PHE:HZ	7:PJ:31:ILE:CG1	2.23	0.51
6:UJ:63:TYR:CB	6:UJ:66:LEU:HD12	2.39	0.51
6:kJ:28:GLN:OE1	6:mJ:33:ARG:NH1	2.44	0.51
7:tJ:33:ASP:OD1	7:tJ:36:LYS:HE3	2.11	0.51
3:BK:102:ASN:HB3	5:JK:111:ASN:HB3	1.92	0.51
5:FK:36:GLN:HA	5:FK:39:ASP:OD2	2.10	0.51
4:GK:65:TYR:CE2	4:MK:65:TYR:CE2	2.98	0.51
5:JK:17:GLU:CD	15:bM:333:ARG:HD2	2.36	0.51
5:JK:57:ARG:NH1	4:MK:72:PRO:HG3	2.25	0.51
7:BL:110:LEU:HD21	7:BL:172:VAL:HG13	1.91	0.51
7:jL:110:LEU:HD21	7:jL:172:VAL:HG13	1.91	0.51
6:oL:14:ALA:HB1	16:xL:243:VAL:HG11	1.92	0.51
7:tL:110:LEU:HD21	7:tL:172:VAL:HG13	1.91	0.51
7:HM:74:TYR:OH	6:KM:91:ARG:NH2	2.43	0.51
7:VM:84:ARG:NH2	29:VM:201:PEB:C1C	2.74	0.51
7:iM:47:ASN:OD1	7:iM:149:ARG:NH1	2.42	0.51
6:CN:62:LYS:NZ	6:CN:129:ALA:O	2.43	0.51
21:DP:137:THR:O	21:DP:141:VAL:HG22	2.10	0.51
21:HP:137:THR:O	21:HP:141:VAL:HG22	2.10	0.51
24:XP:107:ARG:CG	24:XP:111:MET:HE2	2.41	0.51
25:YP:167:ASP:HB2	25:YP:168:PRO:HD2	1.93	0.51
20:cP:5:THR:OG1	21:hP:3:ASP:OD1	2.23	0.51
21:dP:57:ALA:HA	21:dP:61:LEU:HB2	1.91	0.51
21:fP:57:ALA:HA	21:fP:61:LEU:HB2	1.92	0.51
20:iP:76:GLU:HA	20:iP:76:GLU:OE1	2.10	0.51
21:kP:128:GLN:HE21	25:1P:664:SER:HB3	1.75	0.51
20:lP:148:GLU:O	20:lP:151:PHE:HB2	2.11	0.51
25:1P:749:ILE:O	25:1P:753:LYS:HG2	2.10	0.51
28:4P:82:PHE:O	28:4P:86:VAL:HG23	2.11	0.51
6:EQ:122:LEU:HD22	29:EQ:201:PEB:HNA	1.76	0.51
7:HQ:153:PHE:HB2	29:HQ:202:PEB:HMA3	1.93	0.51
7:LQ:125:ASN:HA	7:LQ:128:ILE:HG12	1.92	0.51
7:TR:67:ILE:O	7:TR:74:TYR:HD1	1.93	0.51
7:TR:110:LEU:CD2	7:TR:172:VAL:HA	2.40	0.51
2:A1:88:GLN:NE2	29:A1:301:PEB:O1C	2.43	0.51
4:E1:3:THR:HB	4:E1:4:PRO:HD2	1.92	0.51
6:S1:33:ARG:NH2	6:U1:28:GLN:OE1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S1:54:GLU:HG2	6:S1:54:GLU:O	2.09	0.51
6:h1:33:ARG:NH2	6:h1:33:ARG:CA	2.73	0.51
8:e2:299:VAL:HB	5:F7:17:GLU:CB	2.37	0.51
6:O2:137:ARG:HH21	29:O2:202:PEB:C4B	2.18	0.51
6:U2:115:GLU:N	6:U2:118:ARG:HH21	2.08	0.51
6:A3:138:LEU:HD21	6:A3:149:GLY:HA2	1.92	0.51
10:d4:156:SER:HA	29:E4:201:PEB:O1C	2.11	0.51
7:C4:132:SER:HA	7:C4:135:LYS:HB2	1.92	0.51
6:D4:118:ARG:NH1	6:F4:114:ARG:HD3	2.26	0.51
7:E4:106:GLU:OE2	7:E4:106:GLU:N	2.41	0.51
7:G4:51:MET:CE	7:G4:141:PHE:HE2	2.22	0.51
7:K4:172:VAL:O	7:K4:176:ILE:HG12	2.10	0.51
6:L4:142:ARG:HD2	29:L4:202:PEB:HHA1	1.93	0.51
13:k6:17:TRP:CZ3	13:k6:134:ILE:HD11	2.40	0.51
1:X7:74:PHE:HA	6:S7:107:GLU:OE2	2.10	0.51
3:B7:228:MET:CA	20:rP:56:GLN:HG2	2.41	0.51
5:F7:5:PHE:HD1	5:F7:27:LEU:HD22	1.73	0.51
4:M7:118:ILE:HD13	31:M7:1001:CYC:HMA3	1.92	0.51
6:W7:37:ARG:NH1	6:W7:98:VAL:O	2.43	0.51
7:a7:29:SER:CB	12:E8:43:ALA:HB1	2.40	0.51
7:m7:39:ASP:OD2	29:m7:202:PEB:NB	2.43	0.51
7:B8:129:ARG:NH2	7:B8:132:SER:OG	2.43	0.51
7:I8:72:MEN:O	7:I8:78:ARG:HB3	2.11	0.51
3:B9:17:VAL:HG12	5:J9:84:ARG:HH12	1.75	0.51
4:C9:73:ALA:HA	31:C9:1001:CYC:HBD2	1.91	0.51
4:M9:73:ALA:HA	31:M9:1001:CYC:HBD2	1.91	0.51
5:N9:72:MEN:OD1	31:N9:1001:CYC:NC	2.44	0.51
6:S9:137:ARG:HH12	13:kH:118:ARG:HB2	1.76	0.51
6:Z9:30:ASN:OD1	6:Z9:37:ARG:NH2	2.40	0.51
6:f9:149:GLY:O	6:f9:153:SER:OG	2.29	0.51
7:g9:39:ASP:OD2	7:g9:153:PHE:CD1	2.64	0.51
6:AA:4:VAL:O	6:AA:7:THR:OG1	2.26	0.51
7:JA:91:ARG:NH1	7:JA:95:TYR:OH	2.38	0.51
6:KA:42:GLU:HB3	7:LA:21:GLY:N	2.25	0.51
7:LA:82:CYS:HA	29:LA:201:PEB:HHA1	1.92	0.51
14:MA:158:ARG:HH11	30:MA:403:PUB:C4D	2.24	0.51
14:MA:248:ARG:HH22	14:MA:328:PRO:HA	1.76	0.51
6:AC:37:ARG:NH1	6:AC:98:VAL:O	2.42	0.51
6:EC:136:ASP:OD1	6:EC:136:ASP:N	2.42	0.51
10:dD:287:ARG:O	10:dD:288:ARG:O	2.28	0.51
7:CD:132:SER:HA	7:CD:135:LYS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GD:111:ASN:OD1	7:GD:111:ASN:N	2.34	0.51
6:HD:13:ASP:OD2	7:ID:108:ARG:NH2	2.43	0.51
6:HD:33:ARG:NH2	6:HD:33:ARG:CA	2.73	0.51
6:GE:157:ASP:O	6:GE:161:ASN:ND2	2.42	0.51
6:IE:14:ALA:HB1	18:ME:51:PRO:CA	2.41	0.51
7:LE:37:ARG:HA	7:LE:161:LEU:HD21	1.92	0.51
5:JF:17:GLU:HG2	27:3P:95:GLY:HA3	1.92	0.51
7:HG:58:GLY:HA3	29:HG:203:PEB:HHC2	1.93	0.51
6:IG:122:LEU:HD22	29:IG:201:PEB:HNA	1.76	0.51
7:JG:125:ASN:HA	7:JG:128:ILE:HG12	1.92	0.51
7:JG:153:PHE:HB2	29:JG:202:PEB:HMA3	1.93	0.51
4:GI:47:SER:OG	4:GI:50:ARG:NH2	2.39	0.51
6:bI:91:ARG:NH2	7:kl:74:TYR:OH	2.41	0.51
7:iI:135:LYS:NZ	7:iI:170:ASP:OD1	2.43	0.51
7:LJ:26:ALA:HB1	28:4P:228:ILE:O	2.10	0.51
7:LJ:33:ASP:OD1	7:LJ:33:ASP:N	2.43	0.51
7:fJ:33:ASP:N	7:fJ:33:ASP:OD1	2.43	0.51
6:sJ:13:ASP:O	16:xJ:87:THR:HB	2.10	0.51
16:wJ:234:ARG:HH11	16:wJ:260:PRO:HG2	1.75	0.51
5:HK:65:GLN:HA	5:HK:68:GLN:HB2	1.93	0.51
7:eK:129:ARG:NH1	7:eK:132:SER:OG	2.43	0.51
7:BL:16:ALA:HB2	7:JL:69:PRO:HG2	1.92	0.51
7:DL:110:LEU:HD21	7:DL:172:VAL:HG13	1.91	0.51
6:KL:72:ALA:CB	29:KL:201:PEB:HMA2	2.39	0.51
7:PL:110:LEU:HD21	7:PL:172:VAL:HG13	1.91	0.51
6:SL:33:ARG:HE	6:SL:147:GLN:HE22	1.39	0.51
6:YL:147:GLN:NE2	29:bL:202:PEB:HMC1	2.12	0.51
6:sL:68:ASN:HB2	6:sL:71:GLU:HG2	1.89	0.51
30:yL:303:PUB:HBA3	30:yL:303:PUB:CHA	2.40	0.51
7:RM:60:ILE:HD13	7:RM:66:LEU:HD12	1.93	0.51
7:FN:91:ARG:NH1	7:FN:95:TYR:OH	2.38	0.51
6:IN:149:GLY:O	6:IN:153:SER:OG	2.26	0.51
14:MN:103:ARG:N	14:MN:103:ARG:CD	2.73	0.51
14:MN:153:MET:HA	14:MN:156:ASN:HD22	1.76	0.51
7:HO:75:THR:OG1	7:HO:76:ASN:N	2.41	0.51
21:MP:57:ALA:HA	21:MP:61:LEU:HB2	1.91	0.51
21:OP:87:TYR:CE2	24:XP:87:LEU:HD22	2.27	0.51
20:TP:76:GLU:HA	20:TP:76:GLU:OE1	2.10	0.51
25:YP:45:SER:HA	25:YP:48:ASN:HB2	1.92	0.51
25:YP:343:PHE:HD2	25:YP:351:LEU:HG	1.74	0.51
28:bP:82:PHE:O	28:bP:86:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:cP:148:GLU:O	20:cP:151:PHE:HB2	2.11	0.51
20:eP:76:GLU:HA	20:eP:76:GLU:OE1	2.10	0.51
20:pP:76:GLU:OE1	20:pP:76:GLU:HA	2.10	0.51
21:uP:109:LEU:HD13	21:uP:159:GLY:HA3	1.91	0.51
22:xP:90:ARG:HG2	22:xP:94:TYR:CE2	2.45	0.51
25:1P:490:GLN:HB3	25:1P:645:TYR:OH	2.10	0.51
25:1P:603:ARG:HA	25:1P:606:ILE:CG2	2.40	0.51
27:3P:190:GLU:O	27:3P:194:LEU:HG	2.11	0.51
6:AQ:33:ARG:HD2	29:DQ:202:PEB:C4D	2.40	0.51
6:KQ:33:ARG:O	6:KQ:37:ARG:N	2.34	0.51
14:MQ:96:LYS:HD3	14:MQ:96:LYS:O	2.10	0.51
6:OR:91:ARG:NH1	6:OR:95:TYR:CE2	2.79	0.51
6:SR:138:LEU:CA	29:SR:202:PEB:HMD1	2.40	0.51
7:VR:85:ASP:OD1	29:VR:201:PEB:H1D1	2.10	0.51
1:X1:352:THR:HG23	31:D1:1001:CYC:HBA1	1.92	0.51
4:G1:50:ARG:NH2	7:C8:76:ASN:OD1	2.43	0.51
5:J1:145:THR:HG21	5:J1:150:ILE:HD11	1.81	0.51
4:M1:1:MET:HG2	5:N1:6:ALA:CB	2.39	0.51
6:Z1:50:ALA:O	6:Z1:54:GLU:HB2	2.09	0.51
7:e1:129:ARG:NH1	7:e1:132:SER:OG	2.43	0.51
6:f1:54:GLU:HG2	6:f1:54:GLU:O	2.09	0.51
7:R2:85:ASP:OD1	29:R2:201:PEB:H1D1	2.10	0.51
6:A3:102:THR:HG22	6:A3:155:TYR:HE1	1.73	0.51
6:C3:138:LEU:HD21	6:C3:149:GLY:HA2	1.92	0.51
7:D3:39:ASP:OD1	29:D3:202:PEB:C1D	2.56	0.51
7:M3:107:ASP:OD1	7:M3:108:ARG:HG2	2.11	0.51
9:O3:134:ARG:HG2	9:O3:138:MET:HB3	1.91	0.51
10:d4:129:GLU:HA	10:d4:129:GLU:OE1	2.11	0.51
6:B4:1:MET:SD	6:B4:107:GLU:OE1	2.68	0.51
6:B4:142:ARG:HD2	29:B4:202:PEB:HHA1	1.92	0.51
7:C4:77:ARG:HH21	7:C4:78:ARG:HG2	1.75	0.51
6:F4:155:TYR:CZ	6:H4:21:ASN:ND2	2.78	0.51
7:G4:73:CYS:HA	7:G4:78:ARG:HB3	1.92	0.51
7:M4:165:VAL:HA	7:M4:168:TYR:CD2	2.40	0.51
7:G5:150:LYS:C	7:k9:147:THR:CB	2.80	0.51
7:I5:79:MET:CE	15:bB:229:LEU:CG	2.86	0.51
12:E5:120:TYR:CZ	7:Y9:157:ASP:HB2	2.45	0.51
2:A7:286:LYS:HG3	2:A7:288:TYR:HE1	1.76	0.51
4:I7:28:ASN:OD1	4:I7:32:GLN:NE2	2.40	0.51
4:M7:77:SER:OG	4:M7:78:ALA:N	2.44	0.51
6:W7:6:THR:HB	7:Y7:1:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a7:35:ASN:ND2	29:a7:202:PEB:OD	2.42	0.51
7:I8:79:MET:CE	15:bM:229:LEU:CG	2.84	0.51
6:J8:18:PHE:CE2	7:K8:91:ARG:CD	2.93	0.51
7:K8:66:LEU:HB3	7:K8:73:CYS:HB2	1.92	0.51
4:E9:73:ALA:HA	31:E9:1001:CYC:HBD2	1.91	0.51
15:bB:93:GLU:HG3	6:IB:114:ARG:NH2	2.26	0.51
15:bB:198:ARG:HH21	15:bB:201:TYR:HD1	1.58	0.51
15:bB:341:ALA:O	15:bB:349:LYS:HD2	2.01	0.51
6:fB:154:ALA:HB3	6:hB:21:ASN:HD21	1.76	0.51
6:AC:24:LEU:HA	7:BC:38:LEU:HD22	1.93	0.51
6:IC:158:TYR:OH	6:KC:17:ARG:NH2	2.44	0.51
7:LC:116:THR:CB	18:MC:213:THR:OG1	2.58	0.51
10:dD:325:VAL:HB	10:dD:329:MET:HE2	1.92	0.51
6:BD:131:ILE:O	6:BD:134:THR:OG1	2.22	0.51
6:DD:115:GLU:HA	6:DD:118:ARG:NE	2.18	0.51
6:HD:47:ASN:HB2	6:HD:50:ALA:HB3	1.93	0.51
6:JD:68:ASN:HB2	6:JD:71:GLU:HG2	1.91	0.51
18:ME:69:PHE:HA	18:ME:72:LEU:HB2	1.91	0.51
3:BF:64:THR:HA	3:BF:92:PRO:HG2	1.93	0.51
3:BF:205:ARG:CB	20:rP:76:GLU:HG3	2.40	0.51
7:iF:40:ALA:HB1	7:iF:142:ILE:HD12	1.93	0.51
6:CG:33:ARG:HA	6:CG:33:ARG:NE	2.21	0.51
7:FG:47:ASN:O	7:FG:51:MET:N	2.42	0.51
7:FG:50:CYS:CA	29:FG:203:PEB:CAA	2.88	0.51
29:FG:202:PEB:CAD	6:GG:33:ARG:HD2	2.41	0.51
7:HG:108:ARG:CZ	14:MG:302:ASN:ND2	2.73	0.51
7:HG:125:ASN:HA	7:HG:128:ILE:HG12	1.92	0.51
7:JG:47:ASN:O	7:JG:51:MET:N	2.42	0.51
6:KG:122:LEU:HD22	29:KG:201:PEB:HNA	1.76	0.51
1:XI:68:PRO:HG3	2:AI:57:VAL:HG13	1.92	0.51
5:LI:75:THR:HG22	5:LI:77:ARG:H	1.76	0.51
6:AJ:137:ARG:HH21	29:AJ:202:PEB:CGB	2.23	0.51
7:DJ:33:ASP:OD1	7:DJ:36:LYS:HE3	2.11	0.51
30:yJ:303:PUB:HBA3	30:yJ:303:PUB:CHA	2.41	0.51
5:FK:65:GLN:HA	5:FK:68:GLN:HB2	1.93	0.51
7:VK:124:THR:O	7:VK:127:SER:OG	2.22	0.51
6:ZK:50:ALA:O	6:ZK:54:GLU:HB2	2.09	0.51
7:FL:125:ASN:HD22	7:XL:70:GLY:CA	2.24	0.51
7:HL:21:GLY:HA2	7:HL:24:LEU:HB2	1.93	0.51
7:fL:33:ASP:N	7:fL:33:ASP:OD1	2.43	0.51
7:hL:33:ASP:OD1	7:hL:36:LYS:HE3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:jL:201:PEB:O1C	16:wL:137:TYR:OH	2.12	0.51
6:mL:108:TRP:CH2	7:nL:10:VAL:HA	2.46	0.51
6:oL:13:ASP:OD1	7:pL:92:TYR:CZ	2.63	0.51
16:wL:175:GLU:OE2	16:xL:47:ARG:CG	2.40	0.51
16:wL:178:ALA:C	16:xL:37:THR:CG2	2.84	0.51
15:bM:289:LYS:O	15:bM:289:LYS:NZ	2.39	0.51
6:IM:31:ILE:HA	7:JM:31:ILE:HG23	1.92	0.51
6:AN:62:LYS:NZ	6:AN:129:ALA:O	2.43	0.51
6:EN:62:LYS:NZ	6:EN:129:ALA:O	2.43	0.51
7:MO:92:TYR:CD2	7:MO:109:CYS:SG	3.04	0.51
9:OO:70:ARG:NH2	9:OO:203:TYR:OH	2.43	0.51
20:EP:13:ALA:CB	25:YP:507:LYS:HB3	2.40	0.51
21:LP:57:ALA:HA	21:LP:61:LEU:HB2	1.91	0.51
20:TP:148:GLU:O	20:TP:151:PHE:HB2	2.11	0.51
25:YP:343:PHE:CD2	25:YP:351:LEU:HG	2.46	0.51
25:YP:667:LEU:HD23	25:YP:668:LYS:H	1.75	0.51
20:gP:71:ASN:ND2	20:gP:121:THR:OG1	2.42	0.51
20:mP:76:GLU:OE1	20:mP:76:GLU:HA	2.10	0.51
6:GQ:33:ARG:O	6:GQ:37:ARG:N	2.34	0.51
6:OR:50:ALA:O	6:OR:53:LYS:HB3	2.10	0.51
6:QR:54:GLU:OE1	29:QR:202:PEB:HMC2	2.11	0.51
3:B1:156:ASP:N	3:B1:156:ASP:OD1	2.43	0.51
7:V1:160[A]:SER:HA	14:MA:103:ARG:HD3	1.92	0.51
29:e2:401:PEB:HBC2	29:e2:401:PEB:CHB	2.22	0.51
29:M2:201:PEB:HHC2	7:V2:76:ASN:OD1	2.10	0.51
6:O2:79:ILE:CG2	13:k6:245:VAL:CG1	2.85	0.51
6:O2:91:ARG:NH1	6:O2:95:TYR:CE2	2.79	0.51
6:Q2:37:ARG:HH12	6:Q2:98:VAL:HA	1.73	0.51
7:T2:65:GLY:O	7:T2:68:SER:OG	2.26	0.51
6:D4:68:ASN:HB2	6:D4:71:GLU:HG2	1.91	0.51
6:H4:81:LYS:HD2	6:H4:81:LYS:C	2.35	0.51
7:I4:104:VAL:HG23	7:I4:108:ARG:CZ	2.41	0.51
6:J4:81:LYS:NZ	6:J4:85:ASP:OD2	2.44	0.51
6:L4:47:ASN:HB2	6:L4:50:ALA:HB3	1.93	0.51
7:M4:77:ARG:HH21	7:M4:78:ARG:HG2	1.75	0.51
7:F5:129:ARG:NH2	7:F5:132:SER:OG	2.43	0.51
7:H5:129:ARG:NH2	7:H5:132:SER:OG	2.43	0.51
3:B7:209:GLN:CG	27:3P:55:TYR:CG	2.94	0.51
4:G7:142:LEU:HD13	4:G7:146:VAL:HG12	1.91	0.51
7:k7:147:THR:CB	7:G8:150:LYS:C	2.83	0.51
6:l7:43:LYS:NZ	6:l7:143:ASP:O	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l7:149:GLY:O	6:l7:153:SER:OG	2.29	0.51
7:m7:8:VAL:CG1	7:m7:23:ASP:CG	2.80	0.51
7:G8:77:ARG:HH12	12:E8:245:MET:HB2	1.76	0.51
7:I8:7:ARG:NE	28:4P:138:LEU:CD2	2.74	0.51
7:C8:66:LEU:HB3	7:C8:73:CYS:HB2	1.92	0.51
3:B9:30:ARG:HD2	4:C9:14:ASN:ND2	2.25	0.51
4:C9:77:SER:OG	4:C9:78:ALA:N	2.44	0.51
6:Q9:69:PRO:HD3	13:kH:102:TYR:CZ	2.45	0.51
6:b9:37:ARG:NH1	6:b9:98:VAL:O	2.43	0.51
15:bB:138:ARG:HD3	15:bB:241:SER:HB2	1.92	0.51
6:GB:137:ARG:NH1	29:GB:202:PEB:C4B	2.73	0.51
7:HB:46:SER:HB3	6:IB:157:ASP:OD2	2.11	0.51
7:NB:106:GLU:OE2	28:bP:176:LEU:HD12	2.11	0.51
7:CD:137:GLN:HB3	29:CD:203:PEB:C2B	2.40	0.51
6:DD:51:VAL:HG12	6:DD:137:ARG:HH22	1.75	0.51
6:DD:81:LYS:NZ	6:DD:85:ASP:OD2	2.44	0.51
6:DD:118:ARG:NH1	6:FD:114:ARG:HD3	2.26	0.51
6:FD:81:LYS:NZ	6:FD:85:ASP:OD2	2.44	0.51
6:HD:81:LYS:NZ	6:HD:85:ASP:OD2	2.44	0.51
7:MD:164:GLU:O	7:MD:167:SER:OG	2.27	0.51
18:ME:289:GLU:CD	5:DI:20:SER:HG	2.18	0.51
18:ME:301:ASN:CG	6:gL:53:LYS:CD	2.75	0.51
6:AG:37:ARG:NH2	6:AG:38:LEU:HD21	2.25	0.51
7:BG:157:ASP:OD2	7:BG:159:THR:OG1	2.27	0.51
6:EG:122:LEU:HD22	29:EG:201:PEB:HNA	1.76	0.51
7:FG:47:ASN:ND2	29:FG:203:PEB:HMA3	2.26	0.51
7:HG:107:ASP:C	14:MG:298:ARG:HE	2.12	0.51
5:DI:75:THR:HG22	5:DI:77:ARG:H	1.76	0.51
7:HJ:108:ARG:HG2	7:HJ:108:ARG:O	2.09	0.51
6:KJ:47:ASN:HD21	29:KJ:202:PEB:CMC	2.24	0.51
7:VJ:155:ALA:N	7:NO:71:GLY:HA2	2.25	0.51
6:cJ:138:LEU:HB2	29:cJ:202:PEB:CMD	2.40	0.51
7:jJ:33:ASP:OD1	7:jJ:36:LYS:HE3	2.11	0.51
7:nJ:33:ASP:OD1	7:nJ:36:LYS:HE3	2.11	0.51
29:zJ:501:PEB:HBA3	29:zJ:501:PEB:HHA1	1.92	0.51
1:XK:134:LYS:HD2	1:XK:183:GLU:HG2	1.93	0.51
2:AK:88:GLN:NE2	29:AK:301:PEB:O1C	2.43	0.51
4:EK:3:THR:HB	4:EK:4:PRO:HD2	1.92	0.51
4:EK:142:LEU:HD23	4:EK:142:LEU:N	2.25	0.51
6:AL:152:PHE:CZ	6:AL:156:LEU:HD11	2.46	0.51
7:PL:125:ASN:N	7:PL:125:ASN:OD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:jL:33:ASP:OD1	7:jL:36:LYS:HE3	2.11	0.51
6:mL:18:PHE:HB3	7:nL:45:VAL:HG13	1.91	0.51
6:GM:137:ARG:NH1	29:GM:202:PEB:C4B	2.73	0.51
6:fM:154:ALA:HB3	6:hM:21:ASN:HD21	1.76	0.51
7:kM:80:ALA:O	7:kM:84:ARG:HB3	2.10	0.51
6:lM:79:ILE:HD13	6:OR:141:PRO:O	2.11	0.51
6:GN:62:LYS:NZ	6:GN:129:ALA:O	2.43	0.51
20:EP:148:GLU:O	20:EP:151:PHE:HB2	2.11	0.51
20:GP:148:GLU:O	20:GP:151:PHE:HB2	2.11	0.51
20:RP:76:GLU:HA	20:RP:76:GLU:OE1	2.10	0.51
25:YP:20:ALA:HB2	25:YP:166:GLY:HA3	1.93	0.51
20:gP:148:GLU:O	20:gP:151:PHE:HB2	2.11	0.51
21:hP:137:THR:O	21:hP:141:VAL:HG22	2.10	0.51
20:iP:12:ASP:OD2	25:1P:245:GLN:HA	2.11	0.51
21:nP:57:ALA:HA	21:nP:61:LEU:HB2	1.91	0.51
20:pP:148:GLU:O	20:pP:151:PHE:HB2	2.11	0.51
20:rP:44:THR:HG23	21:wP:18:TYR:HD2	1.70	0.51
21:sP:137:THR:O	21:sP:141:VAL:HG22	2.10	0.51
21:wP:87:TYR:OH	25:1P:845:LEU:HD22	2.11	0.51
25:1P:45:SER:HA	25:1P:48:ASN:HB2	1.93	0.51
6:AQ:153:SER:HB2	7:DQ:151:MET:SD	2.51	0.51
7:BQ:153:PHE:HB2	29:BQ:202:PEB:HMA3	1.93	0.51
6:CQ:54:GLU:OE1	6:CQ:137:ARG:NH2	2.37	0.51
8:eR:58:SER:HB3	8:eR:61:GLN:CB	2.36	0.51
8:eR:75:MET:HG2	29:NR:201:PEB:HMC3	1.91	0.51
7:PR:44:ILE:HD11	7:PR:142:ILE:HD11	1.93	0.51
7:RR:85:ASP:OD1	29:RR:201:PEB:H1D1	2.10	0.51
29:SR:201:PEB:CMB	29:SR:201:PEB:NA	2.73	0.51
7:V1:125:ASN:ND2	7:c1:70:GLY:O	2.41	0.51
6:M2:137:ARG:HH12	29:M2:202:PEB:CGB	2.17	0.51
7:N2:133:ILE:HG23	29:N2:203:PEB:HBC2	1.92	0.51
7:B3:120:LEU:CD2	29:B3:201:PEB:HBB1	2.39	0.51
7:H3:39:ASP:OD2	29:H3:202:PEB:NC	2.43	0.51
6:B4:140:VAL:HG22	6:B4:146:ALA:HA	1.92	0.51
6:F4:43:LYS:NZ	6:F4:43:LYS:HA	2.25	0.51
6:H4:47:ASN:HB2	6:H4:50:ALA:HB3	1.93	0.51
6:H4:82:CYS:HA	29:H4:201:PEB:HHA1	1.93	0.51
7:K4:51:MET:CE	7:K4:141:PHE:HE2	2.22	0.51
6:L4:131:ILE:O	6:L4:134:THR:OG1	2.22	0.51
12:E5:209:ARG:HG2	6:II:70:GLY:N	2.20	0.51
6:U7:30:ASN:OD1	6:U7:37:ARG:NH2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:66:LEU:HB3	7:I8:73:CYS:HB2	1.92	0.51
5:F9:17:GLU:HA	8:eR:299:VAL:O	2.11	0.51
5:H9:78:ARG:NH1	5:H9:78:ARG:CG	2.73	0.51
6:Z9:37:ARG:NH1	6:Z9:98:VAL:O	2.43	0.51
7:DA:82:CYS:HA	29:DA:201:PEB:HHA1	1.92	0.51
6:EA:124:THR:HA	6:EA:127:TYR:HB2	1.93	0.51
15:bB:376:GLU:CA	21:MP:64:ASP:OD2	2.59	0.51
29:BC:202:PEB:CBD	6:CC:33:ARG:HD2	2.41	0.51
7:HC:37:ARG:HA	7:HC:161:LEU:HD21	1.92	0.51
29:LC:201:PEB:HBB1	18:MC:219:SER:CB	2.41	0.51
10:dD:217:SER:HG	29:ID:201:PEB:HAC1	0.69	0.51
6:BD:47:ASN:O	6:BD:51:VAL:HG22	2.10	0.51
6:DD:82:CYS:HA	29:DD:201:PEB:HHA1	1.93	0.51
7:ED:30:PHE:HE1	7:ED:37:ARG:NH1	2.09	0.51
6:FD:47:ASN:O	6:FD:51:VAL:HG22	2.10	0.51
6:JD:151:GLU:CD	6:JD:151:GLU:N	2.68	0.51
6:LD:151:GLU:CD	6:LD:151:GLU:N	2.68	0.51
7:MD:77:ARG:HH21	7:MD:78:ARG:HG2	1.75	0.51
18:ME:218:GLY:O	18:ME:219:SER:HB2	2.11	0.51
4:KF:70:PRO:CG	9:OO:308:TYR:CD2	2.93	0.51
7:PF:147:THR:HB	7:PF:148:GLU:OE1	2.11	0.51
7:cF:40:ALA:HB1	7:cF:142:ILE:HD12	1.93	0.51
7:HG:108:ARG:NH1	14:MG:302:ASN:ND2	2.51	0.51
6:GJ:75:ASN:OD1	6:GJ:78:LYS:CG	2.52	0.51
7:HJ:60:ILE:CG2	7:HJ:67:ILE:HG12	2.41	0.51
7:HJ:114:LYS:HG2	19:zJ:394:LEU:HD11	1.92	0.51
7:RJ:125:ASN:N	7:RJ:125:ASN:OD1	2.41	0.51
16:xJ:138:GLU:HA	16:xJ:141:MET:HB2	1.92	0.51
17:yJ:160:ASP:HA	17:yJ:163:GLU:HG2	1.93	0.51
17:yJ:209:ASN:HB3	17:yJ:291:ARG:HH21	1.76	0.51
5:JK:77:ARG:HB2	4:MK:113:ALA:HB1	1.92	0.51
6:GL:68:ASN:HB3	6:GL:69:PRO:HD3	1.82	0.51
6:YL:147:GLN:CD	29:bL:202:PEB:CMC	2.83	0.51
6:cL:138:LEU:HB2	29:cL:202:PEB:CMD	2.40	0.51
7:tL:33:ASP:OD1	7:tL:36:LYS:HE3	2.11	0.51
16:wL:179:ALA:C	16:xL:40:VAL:HG21	2.34	0.51
15:bM:374:THR:O	21:oP:65:ILE:HG23	2.11	0.51
16:AM:146:PRO:CD	16:AM:147:LYS:H	2.08	0.51
16:AM:257:ASN:ND2	7:cM:107:ASP:O	2.43	0.51
7:NM:62:GLU:OE2	28:4P:120:PRO:HB2	2.11	0.51
6:UM:54:GLU:CD	29:MQ:401:PEB:HAC1	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ZM:85:ASP:OD1	29:ZM:201:PEB:HHC1	2.11	0.51
6:IN:25:GLU:OE1	6:KN:33:ARG:HG3	2.10	0.51
20:AP:76:GLU:HA	20:AP:76:GLU:OE1	2.10	0.51
20:GP:76:GLU:OE1	20:GP:76:GLU:HA	2.10	0.51
21:LP:137:THR:O	21:LP:141:VAL:HG22	2.10	0.51
21:OP:72:MET:HG3	21:OP:72:MET:O	2.11	0.51
21:QP:67:ARG:HG3	21:QP:68:PRO:HD2	1.91	0.51
21:qP:57:ALA:HA	21:qP:61:LEU:HB2	1.92	0.51
21:qP:61:LEU:HD11	22:xP:119:LEU:HD21	1.92	0.51
27:3P:42:SER:HB3	27:3P:45:THR:OG1	2.10	0.51
7:BQ:106:GLU:O	7:BQ:111:ASN:ND2	2.43	0.51
7:FQ:47:ASN:HB2	29:FQ:203:PEB:HMA2	1.90	0.51
6:KQ:122:LEU:HD22	29:KQ:201:PEB:HNA	1.76	0.51
7:RR:49:SER:OG	6:SR:161:ASN:OD1	2.24	0.51
6:O1:52:VAL:CG1	6:O1:86:VAL:HG12	2.33	0.51
6:b1:157:ASP:OD1	6:b1:160:ILE:HD12	2.11	0.51
6:S2:138:LEU:HB2	29:S2:202:PEB:HMD3	1.93	0.51
7:T2:110:LEU:CD2	7:T2:172:VAL:HA	2.40	0.51
6:W2:142:ARG:HH21	29:W2:202:PEB:HHA1	1.74	0.51
6:K3:138:LEU:HD21	6:K3:149:GLY:HA2	1.92	0.51
6:B4:82:CYS:HA	29:B4:201:PEB:HHA1	1.93	0.51
6:D4:51:VAL:HG12	6:D4:137:ARG:HH22	1.75	0.51
6:D4:113:ALA:CB	7:I4:76:ASN:HD21	2.24	0.51
7:G4:84:ARG:HA	7:G4:87:GLU:OE2	2.11	0.51
6:H4:81:LYS:NZ	6:H4:85:ASP:OD2	2.44	0.51
7:M4:124:THR:CA	6:UF:69:PRO:CG	2.89	0.51
6:J5:142:ARG:HH22	29:J5:202:PEB:C1B	2.23	0.51
29:A5:201:PEB:O1C	11:D5:205:HIS:NE2	2.41	0.51
12:E5:162:ASN:ND2	29:kI:203:PEB:O1B	2.43	0.51
13:k6:13:GLU:OE1	13:k6:136:ARG:NH1	2.43	0.51
13:k6:134:ILE:CD1	13:k6:143:ALA:HB3	2.40	0.51
1:X7:141:TYR:HA	1:X7:144:ILE:HD12	1.91	0.51
6:O7:149:GLY:O	6:O7:153:SER:OG	2.29	0.51
6:b7:149:GLY:O	6:b7:153:SER:OG	2.29	0.51
6:J8:9:VAL:HG13	7:K8:95:TYR:CD1	2.45	0.51
7:L8:129:ARG:NH2	7:L8:132:SER:OG	2.43	0.51
5:L9:49:SER:O	5:L9:53:THR:OG1	2.24	0.51
4:M9:118:ILE:HD13	31:M9:1001:CYC:HMA3	1.92	0.51
6:b9:17:ARG:HH22	6:d9:102:THR:HG1	1.55	0.51
6:AA:62:LYS:NZ	6:AA:129:ALA:O	2.43	0.51
15:bB:121:ALA:O	15:bB:170:TYR:OH	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:bB:240:MET:HB3	7:JB:111:ASN:HD21	1.76	0.51
7:FC:37:ARG:HA	7:FC:161:LEU:HD21	1.92	0.51
10:dD:282:LYS:CB	10:dD:282:LYS:NZ	2.73	0.51
7:CD:30:PHE:HE1	7:CD:37:ARG:NH1	2.09	0.51
6:FD:16:GLY:CA	7:GD:91:ARG:HH12	2.24	0.51
6:JD:81:LYS:C	6:JD:81:LYS:HD2	2.35	0.51
7:KD:30:PHE:HE1	7:KD:37:ARG:NH1	2.09	0.51
7:KD:59:MET:HE1	7:KD:129:ARG:O	2.11	0.51
18:ME:232:MET:CG	18:ME:236:ASP:C	2.84	0.51
7:BG:46:SER:OG	7:BG:47:ASN:N	2.44	0.51
7:DG:106:GLU:O	7:DG:111:ASN:ND2	2.43	0.51
7:FG:125:ASN:HA	7:FG:128:ILE:HG12	1.92	0.51
7:FG:136:ALA:HB3	29:FG:203:PEB:O1C	2.11	0.51
7:JG:170:ASP:N	7:JG:170:ASP:OD1	2.44	0.51
7:LG:116:THR:HG22	14:MG:233:ALA:O	2.07	0.51
14:MG:255:TYR:O	14:MG:256:THR:OG1	2.29	0.51
6:hI:106:ASP:HA	6:hI:110:ILE:HB	1.93	0.51
7:FJ:110:LEU:HD21	7:FJ:172:VAL:HG13	1.91	0.51
6:GJ:118:ARG:NH1	6:IJ:114:ARG:HD2	2.26	0.51
7:HJ:21:GLY:HA2	7:HJ:24:LEU:HB2	1.93	0.51
7:VJ:33:ASP:OD1	7:VJ:36:LYS:HE3	2.10	0.51
7:ZJ:110:LEU:HD21	7:ZJ:172:VAL:HG13	1.91	0.51
7:bJ:33:ASP:OD1	7:bJ:36:LYS:HE3	2.11	0.51
19:zJ:320:PHE:CD2	20:pP:79:ALA:O	2.60	0.51
5:NK:12:ALA:CB	5:NK:19:LEU:CD2	2.89	0.51
6:SK:33:ARG:NH2	6:UK:28:GLN:OE1	2.44	0.51
6:bK:49:GLU:O	6:bK:53:LYS:HD2	2.11	0.51
7:HL:47:ASN:ND2	7:HL:149:ARG:HH11	2.02	0.51
6:mL:104:PRO:HB3	7:nL:9:VAL:HG11	1.93	0.51
7:nL:33:ASP:OD1	7:nL:36:LYS:HE3	2.11	0.51
15:bM:379:ARG:NE	28:4P:43:TYR:CE2	2.79	0.51
7:HM:46:SER:HB3	6:IM:157:ASP:OD2	2.11	0.51
6:MM:54:GLU:CD	29:MM:202:PEB:HAC1	2.36	0.51
7:DN:82:CYS:HA	29:DN:201:PEB:HHA1	1.92	0.51
14:MN:248:ARG:HH22	14:MN:328:PRO:HA	1.76	0.51
7:DO:38:LEU:HB3	29:DO:202:PEB:C2D	2.41	0.51
7:FO:75:THR:OG1	7:FO:76:ASN:N	2.41	0.51
7:JO:84:ARG:NH1	9:OO:63:TYR:HB3	2.25	0.51
6:KO:53:LYS:CE	6:KO:83:TYR:CE1	2.93	0.51
7:MO:107:ASP:OD1	7:MO:108:ARG:HG2	2.11	0.51
20:KP:148:GLU:O	20:KP:151:PHE:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:RP:9:VAL:CG1	25:YP:704:GLN:HB3	2.30	0.51
20:RP:148:GLU:O	20:RP:151:PHE:HB2	2.11	0.51
21:UP:57:ALA:HA	21:UP:61:LEU:HB2	1.92	0.51
25:YP:25:ILE:O	25:YP:29:GLU:HB2	2.11	0.51
25:YP:225:ASP:O	25:YP:229:ASN:ND2	2.44	0.51
25:YP:490:GLN:HB3	25:YP:645:TYR:OH	2.10	0.51
25:YP:630:GLU:OE2	25:YP:644:ARG:NH2	2.39	0.51
21:qP:6:THR:HG23	28:4P:50:TYR:CE1	2.46	0.51
21:qP:6:THR:HG23	28:4P:50:TYR:CE2	2.45	0.51
20:rP:30:VAL:HG12	21:wP:31:PHE:HD1	1.75	0.51
25:1P:343:PHE:HD2	25:1P:351:LEU:HG	1.74	0.51
6:CQ:128:VAL:HA	6:CQ:131:ILE:HG12	1.92	0.51
7:HQ:137:GLN:CA	29:HQ:203:PEB:O1C	2.56	0.51
14:MQ:172:SER:HB2	14:MQ:174:ARG:NH2	2.26	0.51
14:MQ:303:ASP:N	14:MQ:303:ASP:OD1	2.44	0.51
8:eR:85:PRO:CB	7:NR:107:ASP:CB	2.79	0.51
29:MR:201:PEB:HHC2	7:VR:76:ASN:OD1	2.10	0.51
29:SR:201:PEB:NB	29:SR:201:PEB:NC	2.58	0.51
6:UR:115:GLU:N	6:UR:118:ARG:HH21	2.08	0.51
7:XR:44:ILE:HD11	7:XR:142:ILE:HD11	1.93	0.51
5:H1:65:GLN:HA	5:H1:68:GLN:HB2	1.93	0.51
5:J1:8:VAL:HG12	5:J1:19:LEU:CD2	2.41	0.51
6:W1:54:GLU:OE2	29:W1:202:PEB:HMC1	2.11	0.51
7:m1:124:THR:O	7:m1:127:SER:OG	2.23	0.51
6:M2:137:ARG:HH21	29:M2:202:PEB:CHB	2.23	0.51
7:R2:133:ILE:HG23	29:R2:203:PEB:HBC2	1.92	0.51
6:W2:142:ARG:NH2	29:W2:202:PEB:NB	2.59	0.51
7:L3:4:ALA:CB	7:K5:76:ASN:HD22	2.24	0.51
7:M3:92:TYR:CD2	7:M3:109:CYS:SG	3.04	0.51
10:d4:237:LEU:HD11	7:E4:2:LEU:CD1	2.41	0.51
10:d4:264:LYS:O	10:d4:267:ILE:HG22	2.10	0.51
6:D4:118:ARG:HH22	6:F4:118:ARG:HH12	1.57	0.51
6:F4:81:LYS:HD2	6:F4:81:LYS:C	2.35	0.51
6:L4:34:SER:CB	6:L4:37:ARG:HH21	2.24	0.51
7:H5:114:LYS:HB2	7:H5:176:ILE:HA	1.93	0.51
29:L5:201:PEB:HBC2	13:k6:195:ARG:HH12	1.65	0.51
12:E5:185:ALA:CB	6:bI:67:LYS:CE	2.87	0.51
13:k6:31:ALA:O	13:k6:35:ILE:HG13	2.11	0.51
4:I7:118:ILE:HD13	31:I7:1001:CYC:HMA3	1.92	0.51
5:J7:78:ARG:HG2	31:J7:1001:CYC:HAD2	1.93	0.51
4:K7:77:SER:OG	4:K7:78:ALA:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S7:95:TYR:OH	7:T7:17:ALA:O	2.21	0.51
6:U7:149:GLY:O	6:U7:153:SER:OG	2.29	0.51
6:W7:140:VAL:HG11	6:W7:146:ALA:N	2.13	0.51
6:j7:6:THR:HB	7:k7:1:MET:HE3	1.92	0.51
12:E8:66:THR:O	12:E8:74:ARG:HA	2.12	0.51
4:E9:86:ARG:CG	8:eR:296:PRO:O	2.59	0.51
4:G9:77:SER:OG	4:G9:78:ALA:N	2.44	0.51
4:I9:77:SER:OG	4:I9:78:ALA:N	2.44	0.51
6:Q9:49:GLU:HG2	4:EK:46:GLY:CA	2.41	0.51
6:j9:26:SER:HB3	6:l9:26:SER:HB3	1.92	0.51
6:IA:124:THR:HA	6:IA:127:TYR:HB2	1.93	0.51
6:IB:31:ILE:HA	7:JB:31:ILE:HG23	1.92	0.51
6:OB:54:GLU:CD	29:OB:202:PEB:HAC1	2.36	0.51
7:ZB:85:ASP:OD1	29:ZB:201:PEB:HHC1	2.11	0.51
7:JC:73:CYS:C	7:JC:79:MET:SD	2.87	0.51
7:LC:51:MET:HE1	7:LC:137:GLN:HB3	0.63	0.51
6:BD:17:ARG:CB	6:BD:17:ARG:CZ	2.86	0.51
6:DD:118:ARG:HH22	6:FD:118:ARG:HH12	1.57	0.51
6:FD:147:GLN:O	6:FD:150:VAL:N	2.29	0.51
6:HD:114:ARG:NE	6:JD:118:ARG:NH1	2.58	0.51
6:AE:24:LEU:HA	7:BE:38:LEU:HD22	1.93	0.51
7:kF:40:ALA:HB1	7:kF:142:ILE:HD12	1.93	0.51
6:AG:2:LYS:HZ2	30:MG:403:PUB:CAB	2.16	0.51
7:BG:140:ALA:HB3	29:BG:203:PEB:CAB	2.26	0.51
6:IG:93:VAL:HG11	6:IG:156:LEU:HG	1.91	0.51
7:LG:106:GLU:O	7:LG:111:ASN:ND2	2.43	0.51
3:BI:64:THR:HA	3:BI:92:PRO:HG2	1.93	0.51
6:OI:6:THR:O	7:PI:1:MET:HE1	2.10	0.51
7:TI:40:ALA:HB1	7:TI:142:ILE:HD12	1.93	0.51
7:RJ:114:LYS:NZ	7:RJ:177:SER:O	2.40	0.51
4:EK:10:ALA:HA	5:FK:1:MET:HE1	1.93	0.51
5:JK:65:GLN:HA	5:JK:68:GLN:HB2	1.93	0.51
5:JK:77:ARG:N	4:MK:113:ALA:O	2.44	0.51
7:gK:11:ASN:HD21	14:MN:96:LYS:HB2	1.75	0.51
7:FL:143:THR:HB	25:1P:514:ILE:HG12	1.93	0.51
6:kL:28:GLN:OE1	6:mL:33:ARG:NH1	2.44	0.51
16:wL:176:TYR:CD1	16:xL:39:LEU:HD12	2.36	0.51
16:wL:179:ALA:HA	16:xL:37:THR:OG1	2.11	0.51
15:bM:343:PHE:CE2	20:mP:64:ASP:CA	2.81	0.51
6:GM:147:GLN:HE21	6:GM:147:GLN:HA	1.74	0.51
6:AN:118:ARG:NH2	6:AN:122:LEU:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AN:124:THR:HA	6:AN:127:TYR:HB2	1.93	0.51
7:JN:41:VAL:HG12	7:JN:97:LEU:HD23	1.93	0.51
6:KN:42:GLU:HB3	7:LN:21:GLY:N	2.25	0.51
7:JO:39:ASP:OD2	29:JO:202:PEB:NC	2.42	0.51
7:JO:42:ASN:O	7:JO:46:SER:OG	2.26	0.51
21:DP:57:ALA:HA	21:DP:61:LEU:HB2	1.92	0.51
21:IP:137:THR:O	21:IP:141:VAL:HG22	2.10	0.51
20:JP:148:GLU:O	20:JP:151:PHE:HB2	2.11	0.51
20:PP:148:GLU:O	20:PP:151:PHE:HB2	2.11	0.51
21:jP:75:THR:HG23	20:IP:108:GLY:HA2	1.93	0.51
20:IP:76:GLU:OE1	20:IP:76:GLU:HA	2.10	0.51
21:sP:60:LEU:HD13	21:sP:72:MET:SD	2.51	0.51
22:xP:7:VAL:HG13	22:xP:22:GLU:HB3	1.93	0.51
24:zP:107:ARG:CG	24:zP:111:MET:HE2	2.41	0.51
25:1P:225:ASP:O	25:1P:229:ASN:ND2	2.44	0.51
6:CQ:14:ALA:HB1	14:MQ:145:CYS:SG	2.51	0.51
7:HQ:106:GLU:O	7:HQ:111:ASN:ND2	2.43	0.51
7:LQ:58:GLY:C	29:LQ:202:PEB:CMC	2.84	0.51
7:XR:65:GLY:O	7:XR:68:SER:OG	2.26	0.51
6:S2:105:LEU:HG	6:S2:110:ILE:HG13	1.94	0.50
6:U2:137:ARG:NH2	29:U2:202:PEB:C1C	2.73	0.50
7:F3:65:GLY:O	7:F3:68:SER:OG	2.30	0.50
9:O3:70:ARG:NH2	9:O3:203:TYR:OH	2.43	0.50
10:d4:331:GLN:OE1	10:d4:331:GLN:HA	2.10	0.50
6:B4:17:ARG:CB	6:B4:17:ARG:NH2	2.73	0.50
7:E4:84:ARG:HA	7:E4:87:GLU:OE2	2.11	0.50
7:G4:172:VAL:O	7:G4:176:ILE:HG12	2.10	0.50
7:I4:59:MET:HE1	7:I4:129:ARG:O	2.11	0.50
7:I4:113:LEU:HA	7:I4:116:THR:HG23	1.93	0.50
7:F5:114:LYS:HB2	7:F5:176:ILE:HA	1.93	0.50
7:L5:114:LYS:HB2	7:L5:176:ILE:HA	1.93	0.50
5:J7:49:SER:O	5:J7:53:THR:OG1	2.24	0.50
4:K7:118:ILE:HD13	31:K7:1001:CYC:HMA3	1.92	0.50
6:U7:43:LYS:NZ	6:U7:143:ASP:O	2.35	0.50
1:X9:236:LYS:O	7:R9:111:ASN:ND2	2.43	0.50
6:f9:43:LYS:NZ	6:f9:143:ASP:O	2.35	0.50
7:FA:118:ILE:O	14:MA:106:ASP:CG	2.55	0.50
7:HA:82:CYS:HA	29:HA:201:PEB:HHA1	1.92	0.50
6:KA:42:GLU:HB3	7:LA:20:GLY:HA3	1.93	0.50
15:bB:93:GLU:HG2	6:IB:115:GLU:OE2	2.11	0.50
15:bB:246:ASN:ND2	15:bB:251:LYS:O	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BB:181:THR:HB	29:BB:301:PEB:HBA3	1.72	0.50
7:BC:37:ARG:HA	7:BC:161:LEU:HD21	1.92	0.50
6:FD:43:LYS:NZ	6:FD:43:LYS:HA	2.25	0.50
7:GD:84:ARG:HA	7:GD:87:GLU:OE2	2.11	0.50
6:HD:113:ALA:O	6:HD:114:ARG:C	2.54	0.50
6:LD:81:LYS:NZ	6:LD:85:ASP:OD2	2.44	0.50
6:LD:142:ARG:HD2	29:LD:202:PEB:HHA1	1.92	0.50
7:kF:147:THR:HB	7:kF:148:GLU:OE1	2.11	0.50
7:mF:106:GLU:OE2	7:mF:171:ARG:CD	2.59	0.50
7:HG:106:GLU:O	7:HG:111:ASN:ND2	2.43	0.50
5:FI:75:THR:HG22	5:FI:77:ARG:H	1.76	0.50
6:SI:106:ASP:HA	6:SI:110:ILE:HB	1.93	0.50
6:UI:106:ASP:HA	6:UI:110:ILE:HB	1.93	0.50
7:gI:40:ALA:HB1	7:gI:142:ILE:HD12	1.93	0.50
7:gI:129:ARG:NH1	7:gI:132:SER:OG	2.44	0.50
7:FJ:125:ASN:HD22	7:XJ:70:GLY:CA	2.24	0.50
29:LJ:201:PEB:HBD1	19:zJ:217:ALA:O	2.11	0.50
19:zJ:142:LYS:O	19:zJ:147:GLU:N	2.34	0.50
6:GL:72:ALA:CA	29:GL:201:PEB:HMA2	2.26	0.50
7:ZL:110:LEU:HD21	7:ZL:172:VAL:HG13	1.91	0.50
7:pL:33:ASP:OD1	7:pL:36:LYS:HE3	2.11	0.50
7:pL:107:ASP:O	16:xL:257:ASN:OD1	2.29	0.50
16:AM:168:VAL:O	16:AM:234:ARG:NH2	2.43	0.50
6:GM:106:ASP:OD1	6:GM:158:TYR:OH	2.26	0.50
6:UM:67:LYS:CD	14:MQ:97:PHE:HE1	2.24	0.50
7:DN:41:VAL:HG12	7:DN:97:LEU:HD23	1.94	0.50
7:FN:82:CYS:HA	29:FN:201:PEB:HHA1	1.92	0.50
7:HN:41:VAL:HG12	7:HN:97:LEU:HD23	1.93	0.50
6:IN:124:THR:HA	6:IN:127:TYR:HB2	1.93	0.50
6:KN:42:GLU:HB3	7:LN:20:GLY:HA3	1.93	0.50
14:MN:158:ARG:HH11	30:MN:403:PUB:C4D	2.24	0.50
6:KO:56:GLY:CA	6:KO:83:TYR:HE1	2.11	0.50
20:CP:64:ASP:OD1	20:CP:64:ASP:N	2.42	0.50
20:EP:13:ALA:C	25:YP:509:PHE:HZ	2.19	0.50
23:WP:135:VAL:HA	23:WP:138:LEU:HD12	1.93	0.50
20:mP:14:GLU:HG3	25:1P:261:GLN:HB3	1.92	0.50
22:xP:105:GLU:O	22:xP:110:ILE:HG12	2.11	0.50
7:BQ:170:ASP:N	7:BQ:170:ASP:OD1	2.44	0.50
7:FQ:170:ASP:N	7:FQ:170:ASP:OD1	2.44	0.50
7:JQ:153:PHE:HB2	29:JQ:202:PEB:HMA3	1.93	0.50
6:KQ:161:ASN:O	14:MQ:265:LYS:NZ	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eR:85:PRO:CD	7:NR:107:ASP:O	2.59	0.50
7:RR:133:ILE:HG23	29:RR:203:PEB:HBC2	1.92	0.50
7:XR:110:LEU:HD21	7:XR:172:VAL:HG13	1.93	0.50
3:B1:90:SER:HB3	3:B1:92:PRO:HD2	1.93	0.50
5:D1:65:GLN:HA	5:D1:68:GLN:HB2	1.93	0.50
4:E1:46:GLY:CA	6:Q7:49:GLU:HG2	2.41	0.50
4:E1:139:SER:O	4:E1:139:SER:OG	2.23	0.50
5:N1:12:ALA:CB	5:N1:19:LEU:CD2	2.89	0.50
6:S1:52:VAL:CG1	6:S1:86:VAL:HG12	2.33	0.50
8:e2:153:GLN:HG2	29:e2:402:PEB:CBD	2.41	0.50
6:M2:50:ALA:O	6:M2:53:LYS:HB2	2.10	0.50
7:N2:44:ILE:HD11	7:N2:142:ILE:HD11	1.93	0.50
7:N2:110:LEU:HD21	7:N2:172:VAL:HG13	1.94	0.50
7:R2:44:ILE:HD11	7:R2:142:ILE:HD11	1.93	0.50
7:J3:65:GLY:O	7:J3:68:SER:OG	2.30	0.50
10:d4:115:ARG:NH1	10:d4:176:ASP:HB3	2.27	0.50
7:C4:84:ARG:HA	7:C4:87:GLU:OE2	2.11	0.50
6:F4:140:VAL:HG22	6:F4:146:ALA:HA	1.92	0.50
6:F4:151:GLU:CD	6:F4:151:GLU:N	2.68	0.50
7:G4:165:VAL:HA	7:G4:168:TYR:CD2	2.40	0.50
6:J4:47:ASN:O	6:J4:51:VAL:HG22	2.11	0.50
6:L4:82:CYS:HA	29:L4:201:PEB:HHA1	1.93	0.50
7:A5:76:ASN:ND2	7:C5:119:ALA:CB	2.75	0.50
1:X7:321:TYR:CE2	5:D7:84:ARG:NE	2.79	0.50
3:B7:30:ARG:HD2	4:C7:14:ASN:ND2	2.25	0.50
3:B7:191:LYS:NZ	3:B7:191:LYS:CB	2.74	0.50
7:V7:39:ASP:OD2	7:V7:153:PHE:CD1	2.64	0.50
6:W7:43:LYS:NZ	6:W7:143:ASP:O	2.35	0.50
7:B8:114:LYS:HB2	7:B8:176:ILE:HA	1.93	0.50
2:A9:153:GLN:HG2	2:A9:156:GLU:OE2	2.12	0.50
2:A9:155:GLU:OE2	29:A9:304:PEB:H1D1	2.11	0.50
4:K9:45:THR:HG23	5:L9:18:PHE:HB3	1.91	0.50
14:MA:326:VAL:HG13	14:MA:328:PRO:HD3	1.93	0.50
15:bB:202:THR:CG2	15:bB:203:PRO:CD	2.54	0.50
15:bB:274:ARG:CD	15:bB:372:ILE:HG21	2.41	0.50
6:CB:50:ALA:O	29:CB:202:PEB:HMC2	2.10	0.50
6:UB:54:GLU:CD	29:UB:202:PEB:HAC1	2.36	0.50
6:fb:99:VAL:HG23	7:gB:9:VAL:HG21	1.92	0.50
7:DC:73:CYS:C	7:DC:79:MET:SD	2.88	0.50
7:CD:84:ARG:HA	7:CD:87:GLU:OE2	2.11	0.50
6:DD:140:VAL:HG22	6:DD:146:ALA:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HD:33:ARG:NH2	6:HD:33:ARG:CG	2.73	0.50
6:HD:47:ASN:O	6:HD:51:VAL:HG22	2.11	0.50
6:LD:47:ASN:O	6:LD:51:VAL:HG22	2.11	0.50
7:MD:50:CYS:HB2	29:MD:203:PEB:HMA1	1.93	0.50
7:MD:124:THR:HG23	6:UL:69:PRO:HG2	1.93	0.50
7:HE:7:ARG:NH2	7:HE:103:SER:OG	2.45	0.50
4:IF:1:MET:HE2	4:IF:109:GLU:OE1	2.12	0.50
6:fF:106:ASP:HA	6:fF:110:ILE:HB	1.93	0.50
6:jF:106:ASP:HA	6:jF:110:ILE:HB	1.93	0.50
7:FG:154:ALA:O	29:FG:202:PEB:NA	2.32	0.50
7:LG:46:SER:OG	7:LG:47:ASN:N	2.44	0.50
3:BI:224:MET:CG	5:JI:152:ASP:HB2	2.41	0.50
5:JI:169:VAL:O	5:JI:169:VAL:HG22	2.10	0.50
6:WI:106:ASP:HA	6:WI:110:ILE:HB	1.93	0.50
7:eI:146:ALA:O	7:eI:150:LYS:NZ	2.42	0.50
7:gI:147:THR:HB	7:gI:148:GLU:OE1	2.11	0.50
7:HJ:72:MEN:ND2	29:zJ:501:PEB:OA	2.44	0.50
7:JJ:5:PHE:HZ	7:JJ:31:ILE:HG13	1.76	0.50
7:NJ:108:ARG:CZ	16:wJ:41:ASN:HB2	2.42	0.50
7:RJ:110:LEU:HD21	7:RJ:172:VAL:HG13	1.91	0.50
6:eJ:48:HIS:HA	6:eJ:51:VAL:HG22	1.94	0.50
6:qJ:48:HIS:HA	6:qJ:51:VAL:HG22	1.94	0.50
19:zJ:363:ARG:NE	21:nP:62:TYR:CE1	2.61	0.50
3:BK:204:ARG:CG	3:BK:204:ARG:NH1	2.73	0.50
6:WK:54:GLU:OE2	29:WK:202:PEB:HMC1	2.11	0.50
7:HL:114:LYS:HG2	19:zL:394:LEU:HD11	1.92	0.50
7:HL:122:VAL:HG13	29:zL:501:PEB:HMA3	1.93	0.50
6:YL:147:GLN:OE1	6:YL:147:GLN:HA	2.10	0.50
6:cL:48:HIS:HA	6:cL:51:VAL:HG22	1.94	0.50
7:fL:107:ASP:HB3	16:wL:140:LYS:HZ1	1.71	0.50
6:fM:6:THR:HG22	7:gM:1:MET:HE2	1.91	0.50
6:lM:91:ARG:HG2	6:lM:91:ARG:NH1	2.26	0.50
6:EN:124:THR:HA	6:EN:127:TYR:HB2	1.93	0.50
9:OO:105:ASP:OD1	9:OO:105:ASP:N	2.44	0.50
20:AP:148:GLU:O	20:AP:151:PHE:HB2	2.11	0.50
21:FP:57:ALA:HA	21:FP:61:LEU:HB2	1.92	0.50
20:JP:76:GLU:OE1	20:JP:76:GLU:HA	2.10	0.50
20:PP:8:ILE:HG23	21:UP:94:TYR:CG	2.46	0.50
23:WP:132:THR:O	23:WP:135:VAL:HG12	2.12	0.50
25:YP:750:GLN:HG3	25:YP:755:GLN:NE2	2.26	0.50
20:eP:148:GLU:O	20:eP:151:PHE:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:gP:14:GLU:HG3	25:1P:509:PHE:HE1	1.69	0.50
20:mP:148:GLU:O	20:mP:151:PHE:HB2	2.11	0.50
20:vP:148:GLU:O	20:vP:151:PHE:HB2	2.11	0.50
6:AQ:122:LEU:HD22	29:AQ:201:PEB:HNA	1.76	0.50
6:CQ:122:LEU:HD22	29:CQ:201:PEB:HNA	1.76	0.50
6:CQ:136:ASP:OD1	6:CQ:136:ASP:N	2.30	0.50
7:HQ:125:ASN:HA	7:HQ:128:ILE:HG12	1.92	0.50
7:LQ:112:GLY:H	14:MQ:232:LYS:NZ	2.09	0.50
6:WR:50:ALA:O	6:WR:53:LYS:HB2	2.11	0.50
2:A1:103:CYS:SG	30:A1:305:PUB:CAA	2.97	0.50
5:H1:152:ASP:CG	11:D8:219:TYR:CE2	2.89	0.50
5:L1:40:ILE:CD1	29:L1:1002:PEB:HBA1	2.38	0.50
6:h1:157:ASP:OD1	6:h1:160:ILE:HD12	2.11	0.50
6:j1:49:GLU:O	6:j1:53:LYS:HD2	2.12	0.50
6:K3:53:LYS:CE	6:K3:83:TYR:CE1	2.93	0.50
10:d4:307:TYR:HA	10:d4:310:GLN:NE2	2.26	0.50
6:D4:81:LYS:NZ	6:D4:85:ASP:OD2	2.44	0.50
6:F4:25:GLU:CD	6:H4:33:ARG:CD	2.83	0.50
6:F4:29:GLY:HA2	6:F4:32:GLN:CD	2.36	0.50
7:G4:30:PHE:HE1	7:G4:37:ARG:NH1	2.09	0.50
7:I4:54:ASP:HB2	29:I4:203:PEB:HHC1	1.93	0.50
6:J4:82:CYS:HA	29:J4:201:PEB:HHA1	1.93	0.50
12:E5:66:THR:O	12:E5:74:ARG:HA	2.12	0.50
13:k6:61:ARG:HH12	7:V7:150:LYS:CA	2.22	0.50
1:X7:236:LYS:O	7:R7:111:ASN:ND2	2.43	0.50
7:I8:7:ARG:CZ	28:4P:138:LEU:CD2	2.88	0.50
7:L8:70:GLY:C	6:WM:61:ALA:HB2	2.36	0.50
11:D8:252:SER:O	11:D8:261:ALA:HA	2.11	0.50
1:X9:321:TYR:CE2	5:D9:84:ARG:NE	2.79	0.50
2:A9:286:LYS:HG3	2:A9:288:TYR:HE1	1.76	0.50
3:B9:75:PHE:CZ	5:F9:116:THR:HG23	2.46	0.50
4:C9:118:ILE:HD13	31:C9:1001:CYC:HMA3	1.92	0.50
4:I9:118:ILE:HD13	31:I9:1001:CYC:HMA3	1.92	0.50
5:N9:139:VAL:O	5:N9:143:ASN:OD1	2.28	0.50
6:O9:30:ASN:OD1	6:O9:37:ARG:NH2	2.40	0.50
7:a9:84:ARG:HG2	7:a9:88:ILE:HD11	1.92	0.50
7:m9:42:ASN:O	7:m9:46:SER:OG	2.30	0.50
6:AA:124:THR:HA	6:AA:127:TYR:HB2	1.93	0.50
7:DA:77:ARG:HA	6:KA:112:GLY:HA3	1.94	0.50
6:GA:5:ILE:HA	6:GA:8:VAL:HG22	1.93	0.50
15:bB:383:ASP:OD2	28:bP:43:TYR:OH	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NB:15:LYS:NZ	21:MP:131:GLN:CD	2.70	0.50
6:YB:54:GLU:CD	29:YB:203:PEB:HAC1	2.36	0.50
6:aB:54:GLU:CD	29:aB:202:PEB:HAC1	2.36	0.50
6:GC:136:ASP:N	6:GC:136:ASP:OD1	2.42	0.50
18:MC:215:THR:O	18:MC:217:SER:CA	2.55	0.50
7:CD:51:MET:CE	7:CD:141:PHE:HE2	2.22	0.50
7:ED:84:ARG:HA	7:ED:87:GLU:OE2	2.11	0.50
7:KD:84:ARG:HA	7:KD:87:GLU:OE2	2.11	0.50
7:MD:36:LYS:HZ3	29:MD:202:PEB:C2B	2.25	0.50
29:CE:201:PEB:HMD1	7:HE:76:ASN:HD21	1.75	0.50
7:DE:37:ARG:HA	7:DE:161:LEU:HD21	1.92	0.50
6:GE:77:GLU:OE2	6:GE:78:LYS:NZ	2.45	0.50
7:LE:120:LEU:CD2	18:ME:219:SER:CB	2.79	0.50
18:ME:301:ASN:HB3	6:gL:53:LYS:CG	2.37	0.50
6:WF:106:ASP:HA	6:WF:110:ILE:HB	1.93	0.50
7:gF:147:THR:HB	7:gF:148:GLU:OE1	2.11	0.50
7:mF:107:ASP:OD1	7:mF:107:ASP:N	2.24	0.50
6:AG:153:SER:HB2	7:DG:151:MET:SD	2.51	0.50
7:BG:125:ASN:HA	7:BG:128:ILE:HG12	1.92	0.50
7:DG:46:SER:OG	7:DG:47:ASN:N	2.44	0.50
7:DG:153:PHE:HB2	29:DG:202:PEB:HMA3	1.93	0.50
7:DG:157:ASP:OD2	7:DG:159:THR:OG1	2.27	0.50
7:FG:106:GLU:O	7:FG:111:ASN:ND2	2.43	0.50
6:GG:122:LEU:HD22	29:GG:201:PEB:HNA	1.76	0.50
7:HG:141:PHE:CZ	29:HG:203:PEB:CMB	2.94	0.50
6:KG:31:ILE:HD13	7:LG:34:GLY:HA3	1.93	0.50
3:BI:220:LEU:HD23	27:aP:79:ALA:O	2.11	0.50
7:gI:69:PRO:HG3	7:kI:16:ALA:HB2	1.93	0.50
6:jI:106:ASP:HA	6:jI:110:ILE:HB	1.93	0.50
7:mI:135:LYS:NZ	7:mI:170:ASP:OD1	2.43	0.50
6:AJ:48:HIS:HA	6:AJ:51:VAL:HG22	1.94	0.50
6:AJ:139:CYS:SG	29:AJ:202:PEB:CMA	2.97	0.50
7:ZJ:111:ASN:ND2	16:xJ:39:LEU:CD2	2.74	0.50
6:cJ:48:HIS:HA	6:cJ:51:VAL:HG22	1.94	0.50
7:dJ:110:LEU:HD21	7:dJ:172:VAL:HG13	1.91	0.50
6:oJ:13:ASP:OD1	7:pJ:92:TYR:CZ	2.63	0.50
6:oJ:48:HIS:HA	6:oJ:51:VAL:HG22	1.94	0.50
19:zJ:340:PHE:CE1	20:EP:67:SER:CB	2.95	0.50
2:AK:89:TYR:HB3	29:AK:303:PEB:HBD2	1.92	0.50
5:JK:8:VAL:HG12	5:JK:19:LEU:CD2	2.41	0.50
5:JK:33:GLU:OE2	5:JK:156:LEU:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RL:33:ASP:OD1	7:RL:36:LYS:HE3	2.11	0.50
6:uL:48:HIS:HA	6:uL:51:VAL:HG22	1.94	0.50
15:bM:343:PHE:CE2	20:mP:64:ASP:N	2.79	0.50
6:aM:54:GLU:CD	29:aM:202:PEB:HAC1	2.36	0.50
6:fM:54:GLU:CD	29:fM:202:PEB:HAC1	2.36	0.50
7:gM:53[B]:SER:HB3	6:jM:119:THR:HG22	1.94	0.50
6:jM:54:GLU:CD	29:jM:202:PEB:HAC1	2.35	0.50
14:MN:295:PHE:HB3	14:MN:299:ARG:NE	2.22	0.50
21:HP:42:ALA:CB	25:YP:40:LEU:HD21	2.42	0.50
20:PP:23:LEU:HB3	21:UP:38:VAL:CG1	2.41	0.50
21:SP:106:GLU:OE2	27:3P:36:SER:N	2.44	0.50
26:ZP:96:VAL:HG13	26:ZP:100:ASP:OD2	2.12	0.50
27:aP:42:SER:HB3	27:aP:45:THR:OG1	2.10	0.50
20:iP:148:GLU:O	20:iP:151:PHE:HB2	2.11	0.50
21:nP:24:VAL:HG13	22:xP:37:ILE:CD1	2.40	0.50
20:rP:148:GLU:O	20:rP:151:PHE:HB2	2.11	0.50
26:2P:47:GLN:HG3	26:2P:48:LEU:HG	1.92	0.50
6:IQ:54:GLU:OE1	6:IQ:137:ARG:NH2	2.37	0.50
6:IQ:122:LEU:HD22	29:IQ:201:PEB:HNA	1.76	0.50
7:LQ:46:SER:OG	7:LQ:47:ASN:N	2.44	0.50
14:MQ:236:TYR:CE2	29:MQ:402:PEB:CMD	2.90	0.50
7:TR:81:ALA:O	7:TR:84:ARG:HB2	2.11	0.50
2:A1:89:TYR:HB3	29:A1:303:PEB:HBD2	1.92	0.50
5:J1:12:ALA:CB	5:J1:19:LEU:HD21	2.42	0.50
5:J1:77:ARG:N	4:M1:113:ALA:O	2.44	0.50
5:L1:36:GLN:NE2	29:L1:1002:PEB:HMB3	2.19	0.50
5:L1:68:GLN:CD	15:bB:347:ALA:CB	2.72	0.50
8:e2:282:SER:OG	7:a7:150:LYS:CE	2.59	0.50
6:S2:118:ARG:HH11	6:U2:114:ARG:NE	2.03	0.50
7:T2:44:ILE:HD11	7:T2:142:ILE:HD11	1.93	0.50
7:D3:36:LYS:HA	29:D3:202:PEB:HHA1	1.93	0.50
6:B4:47:ASN:HB2	6:B4:50:ALA:HB3	1.93	0.50
6:D4:47:ASN:O	6:D4:51:VAL:HG22	2.11	0.50
6:F4:47:ASN:HB2	6:F4:50:ALA:HB3	1.93	0.50
7:G4:54:ASP:O	29:G4:203:PEB:HMD2	2.11	0.50
7:I4:41:VAL:HG21	7:I4:98:LEU:HD21	1.93	0.50
7:I4:137:GLN:OE1	29:I4:203:PEB:NB	2.45	0.50
7:I4:165:VAL:HA	7:I4:168:TYR:CD2	2.40	0.50
7:K4:30:PHE:HE1	7:K4:37:ARG:NH1	2.09	0.50
7:G5:129:ARG:NH2	7:G5:132:SER:OG	2.43	0.50
7:K5:66:LEU:HB3	7:K5:73:CYS:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D5:252:SER:O	11:D5:261:ALA:HA	2.11	0.50
12:E5:37:VAL:CG2	7:a9:167:SER:HG	2.24	0.50
7:g7:39:ASP:OD2	7:g7:153:PHE:CD1	2.64	0.50
6:l7:90:MET:CA	6:l7:93:VAL:HG12	2.41	0.50
7:F8:114:LYS:HB2	7:F8:176:ILE:HA	1.93	0.50
12:E8:162:ASN:HB3	29:kF:203:PEB:CHB	2.41	0.50
4:K9:118:ILE:HD13	31:K9:1001:CYC:HMA3	1.92	0.50
6:Q9:37:ARG:NH1	6:Q9:98:VAL:O	2.43	0.50
6:S9:95:TYR:OH	7:T9:17:ALA:O	2.21	0.50
7:V9:136:ALA:CB	13:kH:161:ILE:CG2	2.81	0.50
7:c9:42:ASN:O	7:c9:46:SER:OG	2.30	0.50
6:f9:37:ARG:NH1	6:f9:98:VAL:O	2.43	0.50
7:FA:108:ARG:HH12	14:MA:188:MET:HG3	1.76	0.50
15:bB:318:THR:HG21	20:KP:87:TYR:OH	2.11	0.50
7:RB:58:GLY:N	7:RB:61:CYS:SG	2.81	0.50
7:BC:7:ARG:NH2	7:BC:103:SER:OG	2.45	0.50
6:CC:77:GLU:OE2	6:CC:78:LYS:NZ	2.45	0.50
6:EC:77:GLU:OE2	6:EC:78:LYS:NZ	2.45	0.50
10:dD:278:GLY:H	6:WI:69:PRO:CD	2.22	0.50
6:BD:17:ARG:CG	6:BD:17:ARG:NH2	2.73	0.50
7:CD:96:ALA:HB1	7:CD:102:ALA:HA	1.94	0.50
6:FD:43:LYS:CA	6:FD:43:LYS:NZ	2.73	0.50
6:HD:82:CYS:HA	29:HD:201:PEB:HHA1	1.93	0.50
7:ID:104:VAL:HG23	7:ID:108:ARG:CZ	2.41	0.50
7:KD:46:SER:O	6:LD:161:ASN:ND2	2.43	0.50
7:MD:88:ILE:HA	7:MD:91:ARG:HD2	1.92	0.50
6:KE:81:LYS:NZ	29:KE:202:PEB:O2C	2.41	0.50
1:XF:104:ALA:O	7:aF:84:ARG:NH1	2.44	0.50
5:DF:75:THR:HG22	5:DF:77:ARG:H	1.76	0.50
7:TF:40:ALA:HB1	7:TF:142:ILE:HD12	1.93	0.50
7:TF:82:CYS:HA	29:TF:201:PEB:HHA1	1.93	0.50
7:mF:1:MET:SD	7:mF:108:ARG:NH2	2.83	0.50
6:GG:2:LYS:NZ	14:MG:308:GLY:CA	2.74	0.50
6:GG:114:ARG:CD	6:IG:114:ARG:HH11	2.17	0.50
7:JG:157:ASP:OD2	7:JG:159:THR:OG1	2.27	0.50
3:BI:224:MET:HG3	5:JI:152:ASP:CB	2.41	0.50
7:RI:135:LYS:NZ	7:RI:170:ASP:OD1	2.43	0.50
7:VI:40:ALA:HB1	7:VI:142:ILE:HD12	1.93	0.50
7:eI:40:ALA:HB1	7:eI:142:ILE:HD12	1.93	0.50
6:GJ:48:HIS:HA	6:GJ:51:VAL:HG22	1.94	0.50
7:HJ:47:ASN:ND2	7:HJ:149:ARG:HH11	2.02	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:kJ:48:HIS:HA	6:kJ:51:VAL:HG22	1.94	0.50
7:pJ:33:ASP:OD1	7:pJ:36:LYS:HE3	2.11	0.50
6:sJ:17:ARG:NH2	6:uJ:102:THR:OG1	2.44	0.50
3:BK:224:MET:SD	20:cP:82:LEU:HD13	2.51	0.50
5:DK:37:ARG:NH1	5:DK:97:MET:O	2.43	0.50
4:EK:29:GLY:HA3	4:KK:25:GLN:O	2.10	0.50
5:NK:17:GLU:O	5:NK:18:PHE:O	2.30	0.50
5:NK:38:LEU:HD13	29:NK:1002:PEB:CAD	2.40	0.50
7:JL:125:ASN:N	7:JL:125:ASN:OD1	2.41	0.50
7:LL:33:ASP:OD1	7:LL:33:ASP:N	2.43	0.50
6:ML:33:ARG:HH21	29:PL:202:PEB:HAD1	1.74	0.50
6:ML:147:GLN:HE22	29:PL:202:PEB:CMC	2.17	0.50
6:SL:69:PRO:HG3	26:ZP:132:LYS:NZ	2.20	0.50
6:eL:68:ASN:CG	6:eL:71:GLU:OE2	2.48	0.50
6:sL:6:THR:HB	16:xL:81:VAL:HG11	1.93	0.50
6:sL:17:ARG:NH2	6:uL:102:THR:OG1	2.44	0.50
6:sL:48:HIS:HA	6:sL:51:VAL:HG22	1.94	0.50
16:wL:183:LYS:HD3	16:xL:40:VAL:CG1	2.34	0.50
16:wL:234:ARG:HH11	16:wL:260:PRO:HG2	1.75	0.50
6:CM:6:THR:HG23	7:DM:1:MET:HE2	1.94	0.50
6:GM:147:GLN:CA	6:GM:147:GLN:NE2	2.73	0.50
6:CN:34:SER:HB2	6:CN:38:LEU:HD22	1.93	0.50
7:FN:75:THR:OG1	7:FN:76:ASN:N	2.41	0.50
7:HN:75:THR:OG1	7:HN:76:ASN:N	2.41	0.50
7:JN:24:LEU:O	7:JN:27:LEU:N	2.45	0.50
14:MN:326:VAL:HG13	14:MN:328:PRO:HD3	1.93	0.50
7:BO:39:ASP:OD2	29:BO:202:PEB:NC	2.43	0.50
20:KP:8:ILE:HG22	21:OP:1:MET:HE1	1.92	0.50
20:NP:148:GLU:O	20:NP:151:PHE:HB2	2.11	0.50
22:VP:7:VAL:HG13	22:VP:22:GLU:HB3	1.93	0.50
25:YP:24:THR:CG2	25:YP:39:GLU:HB2	2.41	0.50
20:cP:17:TYR:CD2	21:hP:45:ALA:HB2	2.47	0.50
21:kP:49:ALA:HB3	20:pP:161:GLN:OE1	2.12	0.50
20:mP:9:VAL:HG11	25:1P:273:GLU:OE2	2.12	0.50
24:zP:43:ASP:HB2	24:zP:59:SER:O	2.11	0.50
25:1P:167:ASP:HB2	25:1P:168:PRO:HD2	1.93	0.50
26:2P:96:VAL:HG13	26:2P:100:ASP:OD2	2.12	0.50
28:4P:185:ALA:HB2	28:4P:207:ILE:HD11	1.94	0.50
6:EQ:128:VAL:HA	6:EQ:131:ILE:HG12	1.92	0.50
7:FQ:47:ASN:O	7:FQ:51:MET:N	2.42	0.50
6:GQ:122:LEU:HD22	29:GQ:201:PEB:HNA	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GQ:128:VAL:HA	6:GQ:131:ILE:HG12	1.92	0.50
6:IQ:128:VAL:HA	6:IQ:131:ILE:HG12	1.92	0.50
7:JQ:46:SER:OG	7:JQ:47:ASN:N	2.44	0.50
8:eR:92:MET:HE1	8:eR:128:ARG:HH12	1.67	0.50
8:eR:266:LEU:HB3	8:eR:270:THR:HG21	1.93	0.50
6:OR:108:TRP:CD1	7:TR:77:ARG:NH2	2.80	0.50
6:QR:116:VAL:HG13	6:QR:120:LEU:CD1	2.38	0.50
7:XR:40:ALA:O	7:XR:43:SER:OG	2.25	0.50
5:F1:154:SER:C	5:F1:156:LEU:N	2.68	0.50
5:L1:65:GLN:HA	5:L1:68:GLN:HB2	1.93	0.50
7:V1:174:ALA:HB1	14:MA:96:LYS:HE2	1.94	0.50
6:h1:49:GLU:O	6:h1:53:LYS:HD2	2.12	0.50
6:S2:16:GLY:HA2	7:T2:91:ARG:NH1	2.27	0.50
7:T2:81:ALA:O	7:T2:84:ARG:HB2	2.11	0.50
7:V2:61:CYS:HB2	29:V2:203:PEB:HAD1	1.84	0.50
10:d4:327:SER:O	10:d4:328:LYS:HE2	2.12	0.50
6:B4:33:ARG:NH2	6:B4:151:GLU:OE1	2.44	0.50
6:D4:54:GLU:HG2	6:D4:137:ARG:HD2	1.92	0.50
7:G4:39:ASP:OD2	7:G4:153:PHE:CB	2.60	0.50
7:M4:30:PHE:HE1	7:M4:37:ARG:NH1	2.09	0.50
7:I5:72:MEN:O	7:I5:78:ARG:HB3	2.11	0.50
13:k6:211:PRO:HB2	6:U7:77:GLU:HG3	1.93	0.50
2:A7:155:GLU:OE2	29:A7:304:PEB:H1D1	2.12	0.50
3:B7:209:GLN:HG2	27:3P:55:TYR:CD2	2.46	0.50
4:C7:118:ILE:HD13	31:C7:1001:CYC:HMA3	1.92	0.50
6:Z7:37:ARG:NH1	6:Z7:98:VAL:O	2.43	0.50
6:b7:17:ARG:HH22	6:d7:102:THR:HG1	1.55	0.50
6:f7:33:ARG:HH21	29:i7:202:PEB:HAD1	1.76	0.50
6:h7:149:GLY:O	6:h7:153:SER:OG	2.29	0.50
7:G8:106:GLU:OE2	7:G8:171:ARG:NH1	2.39	0.50
3:B9:123:ARG:NH1	26:ZP:53:ILE:CD1	2.75	0.50
7:V9:39:ASP:OD2	7:V9:153:PHE:CD1	2.64	0.50
6:j9:149:GLY:O	6:j9:153:SER:OG	2.29	0.50
7:FA:119:ALA:HB2	14:MA:107:PRO:HD2	1.94	0.50
14:MA:172:SER:OG	14:MA:173:ALA:N	2.43	0.50
15:bB:274:ARG:HD3	15:bB:372:ILE:HG23	1.94	0.50
15:bB:379:ARG:NE	28:bP:43:TYR:CE2	2.79	0.50
7:gB:61:CYS:HB2	29:gB:203:PEB:HAD1	1.70	0.50
6:BD:47:ASN:HB2	6:BD:50:ALA:HB3	1.93	0.50
6:BD:94:ASN:ND2	7:CD:18:TYR:HD1	2.10	0.50
29:CD:202:PEB:C4D	6:DD:33:ARG:NH1	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:47:ASN:O	6:DD:51:VAL:HG22	2.11	0.50
7:ED:26:ALA:HA	7:ED:29:SER:HG	1.77	0.50
7:ID:30:PHE:HE1	7:ID:37:ARG:NH1	2.09	0.50
7:ID:65:GLY:O	7:ID:68:SER:OG	2.15	0.50
7:MD:4:ALA:O	7:MD:7:ARG:HB2	2.12	0.50
7:MD:30:PHE:HE1	7:MD:37:ARG:NH1	2.09	0.50
18:ME:229:GLU:CD	18:ME:242:LYS:HZ3	1.98	0.50
18:ME:312:LEU:HD12	18:ME:313:THR:CB	2.41	0.50
4:EF:145:GLN:HE21	29:LF:1002:PEB:HMC1	1.75	0.50
6:KG:82:CYS:HA	29:KG:201:PEB:HHA1	1.94	0.50
7:LG:58:GLY:HA2	29:LG:203:PEB:CAD	2.41	0.50
29:LG:201:PEB:HMC3	14:MG:237:ILE:HG22	1.92	0.50
14:MG:229:PRO:HG3	14:MG:238:GLN:OE1	2.12	0.50
13:kH:232:PHE:HB2	6:OR:69:PRO:CG	2.41	0.50
7:PI:40:ALA:HB1	7:PI:142:ILE:HD12	1.93	0.50
7:YI:170:ASP:OD1	7:YI:170:ASP:O	2.30	0.50
7:cI:40:ALA:HB1	7:cI:142:ILE:HD12	1.93	0.50
7:cI:148:GLU:OE1	7:cI:148:GLU:N	2.43	0.50
7:kI:147:THR:HB	7:kI:148:GLU:OE1	2.11	0.50
6:UJ:48:HIS:HA	6:UJ:51:VAL:HG22	1.94	0.50
7:XJ:33:ASP:OD1	7:XJ:36:LYS:HE3	2.10	0.50
7:ZJ:33:ASP:OD1	7:ZJ:36:LYS:HE3	2.10	0.50
6:aJ:48:HIS:HA	6:aJ:51:VAL:HG22	1.94	0.50
6:mJ:108:TRP:CH2	7:nJ:10:VAL:HA	2.46	0.50
16:xJ:40:VAL:CG1	16:xJ:41:ASN:N	2.75	0.50
4:EK:155:ASP:OD2	5:LK:46:SER:HB2	2.11	0.50
5:NK:47:ASN:ND2	5:NK:141:LEU:CD2	2.71	0.50
7:VK:129:ARG:NH1	7:VK:132[A]:SER:OG	2.44	0.50
6:lK:157:ASP:OD1	6:lK:160:ILE:HD12	2.11	0.50
7:HL:72:MEN:CE2	7:HL:122:VAL:HG22	2.37	0.50
7:NL:30:PHE:CD1	7:NL:30:PHE:C	2.89	0.50
6:WL:48:HIS:HA	6:WL:51:VAL:HG22	1.94	0.50
7:ZL:33:ASP:OD1	7:ZL:36:LYS:HE3	2.10	0.50
6:aL:48:HIS:HA	6:aL:51:VAL:HG22	1.94	0.50
6:eL:48:HIS:HA	6:eL:51:VAL:HG22	1.94	0.50
6:mL:15:ALA:HB1	30:XL:304:PUB:HBC2	1.93	0.50
6:qL:48:HIS:HA	6:qL:51:VAL:HG22	1.94	0.50
7:tL:125:ASN:N	7:tL:125:ASN:OD1	2.41	0.50
16:AM:173:GLU:OE2	7:kM:115:GLU:OE1	2.28	0.50
6:SM:44:LEU:O	6:SM:48:HIS:HB3	2.12	0.50
29:aM:203:PEB:OD	6:dM:28:GLN:NE2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MN:306:ASN:ND2	14:MN:312:GLU:O	2.45	0.50
21:OP:87:TYR:OH	24:XP:87:LEU:HB2	2.11	0.50
20:TP:76:GLU:OE2	27:3P:61:ARG:HD3	2.12	0.50
20:TP:103:PRO:HG3	27:3P:38:TYR:CZ	2.47	0.50
27:aP:190:GLU:O	27:aP:194:LEU:HG	2.11	0.50
21:dP:73:TYR:OH	20:gP:90:ARG:NH2	2.40	0.50
20:mP:97:ILE:HD12	21:qP:19:LEU:HD12	1.94	0.50
20:tP:13:ALA:HB3	25:1P:706:LYS:CD	2.40	0.50
20:tP:64:ASP:OD1	20:tP:64:ASP:N	2.42	0.50
23:yP:135:VAL:HA	23:yP:138:LEU:HD12	1.94	0.50
25:1P:24:THR:CG2	25:1P:39:GLU:HB2	2.41	0.50
25:1P:28:ALA:HB1	25:1P:35:LEU:H	1.77	0.50
25:1P:80:SER:OG	25:1P:83:SER:N	2.42	0.50
25:1P:630:GLU:OE2	25:1P:644:ARG:NH2	2.39	0.50
7:FQ:125:ASN:HA	7:FQ:128:ILE:HG12	1.92	0.50
6:KQ:82:CYS:HA	29:KQ:201:PEB:HHA1	1.94	0.50
6:QR:49:GLU:O	6:QR:53:LYS:CG	2.50	0.50
5:J1:65:GLN:HA	5:J1:68:GLN:HB2	1.93	0.50
6:S1:49:GLU:O	6:S1:53:LYS:HD2	2.12	0.50
6:l1:157:ASP:OD1	6:l1:160:ILE:HD12	2.11	0.50
6:U2:138:LEU:N	29:U2:202:PEB:CMD	2.74	0.50
7:X2:110:LEU:HD21	7:X2:172:VAL:HG13	1.93	0.50
6:B4:151:GLU:CD	6:B4:151:GLU:N	2.68	0.50
7:E4:30:PHE:HE1	7:E4:37:ARG:NH1	2.09	0.50
7:I4:30:PHE:HE1	7:I4:37:ARG:NH1	2.09	0.50
13:k6:61:ARG:NH1	7:V7:150:LYS:CE	2.75	0.50
3:B7:169:GLN:HE22	5:J7:77:ARG:CB	2.25	0.50
3:B7:224:MET:HE3	20:rP:52:LYS:CB	2.41	0.50
4:C7:33:ARG:HG2	4:M7:25:GLN:HG2	1.93	0.50
5:N7:72:MEN:OD1	31:N7:1001:CYC:NC	2.44	0.50
7:a7:84:ARG:HG2	7:a7:88:ILE:HD11	1.92	0.50
7:k7:150:LYS:HZ1	7:G8:149:ARG:CG	2.25	0.50
7:I8:14:ALA:CA	21:nP:124:GLY:CA	2.83	0.50
7:I8:28:LYS:HB3	19:zJ:290:LEU:C	2.36	0.50
6:J8:57:ASP:N	6:J8:57:ASP:OD1	2.43	0.50
6:U9:68:ASN:ND2	8:eR:274:THR:OG1	2.45	0.50
6:EA:1:MET:HE3	14:MA:196:ASN:ND2	2.27	0.50
6:GA:124:THR:HA	6:GA:127:TYR:HB2	1.93	0.50
6:KA:5:ILE:HA	6:KA:8:VAL:HG22	1.93	0.50
6:aB:6:THR:HG22	7:cB:1:MET:HE2	1.93	0.50
6:jB:54:GLU:OE1	29:jB:202:PEB:CAC	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:dD:69:GLU:HA	10:dD:72:GLN:NE2	2.26	0.50
6:DD:113:ALA:CB	7:ID:76:ASN:HD21	2.24	0.50
7:KD:4:ALA:O	7:KD:7:ARG:HB2	2.12	0.50
7:MD:51:MET:CE	7:MD:141:PHE:HE2	2.22	0.50
7:MD:53:SER:OG	7:MD:54:ASP:N	2.41	0.50
7:MD:84:ARG:HA	7:MD:87:GLU:OE2	2.11	0.50
6:EE:77:GLU:OE2	6:EE:78:LYS:NZ	2.45	0.50
6:IE:158:TYR:OH	6:KE:17:ARG:NH2	2.44	0.50
18:ME:150:SER:O	18:ME:152:HIS:N	2.44	0.50
7:TF:85:ASP:OD2	29:TF:201:PEB:HHA1	2.10	0.50
7:YF:40:ALA:HB1	7:YF:142:ILE:HD12	1.93	0.50
7:aF:40:ALA:HB1	7:aF:142:ILE:HD12	1.93	0.50
7:kF:107:ASP:OD1	7:kF:107:ASP:N	2.38	0.50
6:CG:122:LEU:HD22	29:CG:201:PEB:HNA	1.76	0.50
7:DG:47:ASN:O	7:DG:51:MET:N	2.42	0.50
7:DG:147:THR:OG1	29:DG:203:PEB:OA	2.22	0.50
6:EG:4:VAL:HG11	6:GG:25:GLU:HB2	1.91	0.50
7:HG:154:ALA:O	29:HG:202:PEB:NA	2.32	0.50
6:IG:82:CYS:HA	29:IG:201:PEB:HHA1	1.94	0.50
6:IG:111:ALA:CB	14:MG:252:TYR:CE1	2.95	0.50
7:LG:111:ASN:O	14:MG:236:TYR:HD1	1.94	0.50
7:LG:141:PHE:CE1	29:LG:203:PEB:HMA3	2.46	0.50
1:XI:104:ALA:O	7:aI:84:ARG:NH1	2.44	0.50
7:mI:40:ALA:HB1	7:mI:142:ILE:HD12	1.93	0.50
6:CJ:71:GLU:HA	6:CJ:71:GLU:OE1	2.12	0.50
7:HJ:122:VAL:HG13	29:zJ:501:PEB:HMA3	1.93	0.50
7:JJ:5:PHE:HZ	7:JJ:31:ILE:CG1	2.24	0.50
7:NJ:5:PHE:HE2	7:NJ:31:ILE:HD11	1.71	0.50
7:hJ:33:ASP:OD1	7:hJ:36:LYS:HE3	2.11	0.50
7:vJ:33:ASP:OD1	7:vJ:36:LYS:HE3	2.11	0.50
6:QK:5:ILE:CG2	7:RK:3:ASP:OD2	2.60	0.50
6:SK:49:GLU:O	6:SK:53:LYS:HD2	2.12	0.50
7:TK:3:ASP:CG	7:TK:6:SER:HG	2.10	0.50
6:AL:48:HIS:HA	6:AL:51:VAL:HG22	1.94	0.50
7:FL:116:THR:O	7:FL:120:LEU:HD12	2.11	0.50
7:FL:125:ASN:ND2	7:XL:70:GLY:O	2.45	0.50
6:GL:48:HIS:HA	6:GL:51:VAL:HG22	1.94	0.50
7:JL:5:PHE:HZ	7:JL:31:ILE:HG13	1.76	0.50
6:ML:43:LYS:HB3	6:ML:144:MET:HE3	1.93	0.50
6:UL:48:HIS:HA	6:UL:51:VAL:HG22	1.94	0.50
7:dL:33:ASP:OD1	7:dL:36:LYS:HE3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:nL:87:GLU:OE1	16:xL:205:LYS:HE2	2.11	0.50
7:vL:33:ASP:OD1	7:vL:36:LYS:HE3	2.11	0.50
16:xL:40:VAL:CG1	16:xL:41:ASN:N	2.75	0.50
16:xL:41:ASN:H	16:xL:41:ASN:ND2	2.00	0.50
17:yL:209:ASN:HB3	17:yL:291:ARG:HH21	1.76	0.50
15:bM:260:ALA:HB2	15:bM:279:LEU:HD21	1.92	0.50
6:UM:142:ARG:CD	14:MQ:112:LEU:C	2.83	0.50
7:eM:106:GLU:OE2	7:eM:171:ARG:NH1	2.45	0.50
6:KN:5:ILE:HA	6:KN:8:VAL:HG22	1.93	0.50
6:IO:140:VAL:CG1	6:IO:146:ALA:N	2.73	0.50
31:SP:1001:CYC:O2A	25:YP:804:ARG:HB3	2.10	0.50
28:bP:185:ALA:HB2	28:bP:207:ILE:HD11	1.94	0.50
21:dP:15:GLN:HE22	23:yP:137:GLN:HB2	1.77	0.50
20:mP:102:THR:HG22	28:4P:50:TYR:CD2	2.46	0.50
21:qP:62:TYR:CE1	22:xP:80:LEU:HD13	2.46	0.50
20:tP:148:GLU:O	20:tP:151:PHE:HB2	2.11	0.50
23:yP:132:THR:O	23:yP:135:VAL:HG12	2.12	0.50
25:1P:20:ALA:HB2	25:1P:166:GLY:HA3	1.93	0.50
25:1P:343:PHE:CD2	25:1P:351:LEU:HG	2.46	0.50
6:EQ:82:CYS:HA	29:EQ:201:PEB:HHA1	1.94	0.50
7:LQ:47:ASN:O	7:LQ:51:MET:N	2.42	0.50
8:eR:63:VAL:HG11	6:OR:111:ALA:CB	2.40	0.50
8:eR:80:GLU:CG	7:NR:115:GLU:HG2	2.42	0.50
6:SR:72:ALA:CB	29:SR:201:PEB:OA	2.60	0.50
6:SR:140:VAL:N	6:SR:141:PRO:CD	2.72	0.50
6:WR:116:VAL:HG13	6:WR:120:LEU:CD1	2.38	0.50
4:E1:140:HIS:CD2	4:E1:140:HIS:N	2.75	0.50
4:E1:155:ASP:OD1	5:L1:46:SER:HB2	2.12	0.50
4:G1:21:ASN:HD21	4:I1:152:ALA:HB3	1.74	0.50
4:I1:8:ALA:HB1	4:I1:23:GLU:HB3	1.94	0.50
5:J1:33:GLU:OE2	5:J1:156:LEU:CG	2.59	0.50
5:N1:65:GLN:HA	5:N1:68:GLN:HB2	1.93	0.50
7:V1:163:SER:CB	14:MA:101:LEU:HB2	2.41	0.50
6:M2:81:LYS:NZ	29:M2:201:PEB:CGB	2.75	0.50
7:P2:44:ILE:HD11	7:P2:142:ILE:HD11	1.93	0.50
7:R2:59:MET:SD	7:R2:130:ALA:HB2	2.52	0.50
7:H3:75:THR:OG1	7:H3:76:ASN:N	2.41	0.50
6:F4:142:ARG:CG	6:F4:143:ASP:N	2.75	0.50
7:I4:36:LYS:HZ1	29:I4:202:PEB:HBB2	1.77	0.50
6:J4:131:ILE:O	6:J4:134:THR:OG1	2.22	0.50
6:L4:81:LYS:HD2	6:L4:81:LYS:C	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M4:84:ARG:HA	7:M4:87:GLU:OE2	2.11	0.50
7:M4:96:ALA:HB1	7:M4:102:ALA:HA	1.94	0.50
11:D5:219:TYR:HH	5:HK:152:ASP:HA	1.76	0.50
13:k6:102:TYR:CZ	6:Q7:69:PRO:HD3	2.45	0.50
3:B7:197:PHE:HB2	21:QP:50:THR:HG21	1.92	0.50
5:L7:77:ARG:NH1	31:L7:1001:CYC:O2D	2.45	0.50
6:W7:142:ARG:HH12	29:W7:202:PEB:CHB	2.24	0.50
7:k7:39:ASP:OD1	7:k7:153:PHE:CD1	2.65	0.50
4:M9:77:SER:OG	4:M9:78:ALA:N	2.44	0.50
7:a9:150:LYS:CB	8:eR:284:ASN:HD22	2.22	0.50
29:a9:203:PEB:CMA	8:eR:279:ILE:HG12	2.42	0.50
7:i9:42:ASN:O	7:i9:46:SER:OG	2.30	0.50
6:AA:5:ILE:HA	6:AA:8:VAL:HG22	1.93	0.50
6:KB:54:GLU:CD	29:KB:202:PEB:HAC1	2.36	0.50
7:NB:129:ARG:CD	28:bP:121:HIS:HB3	2.42	0.50
7:cB:106:GLU:OE2	7:cB:171:ARG:NH1	2.45	0.50
6:fB:54:GLU:CD	29:fB:202:PEB:HAC1	2.36	0.50
6:EC:33:ARG:NH2	6:GC:28:GLN:HG2	2.26	0.50
6:GC:77:GLU:OE2	6:GC:78:LYS:NZ	2.45	0.50
18:MC:196:ASP:O	18:MC:237:PHE:CZ	2.64	0.50
18:MC:221:ALA:HB3	18:MC:222:PRO:HD2	1.86	0.50
10:dD:105:SER:OG	10:dD:106:GLY:N	2.45	0.50
10:dD:280:SER:OG	6:WI:70:GLY:CA	2.53	0.50
6:BD:34:SER:HB2	6:BD:37:ARG:NH2	2.27	0.50
7:CD:4:ALA:O	7:CD:7:ARG:HB2	2.12	0.50
7:ED:4:ALA:O	7:ED:7:ARG:HB2	2.12	0.50
6:FD:43:LYS:NZ	6:FD:43:LYS:CB	2.75	0.50
6:FD:142:ARG:CG	6:FD:143:ASP:N	2.75	0.50
7:GD:30:PHE:HE1	7:GD:37:ARG:NH1	2.09	0.50
7:GD:59:MET:HE1	7:GD:129:ARG:O	2.11	0.50
7:GD:136:ALA:HB1	29:GD:203:PEB:HBC2	1.91	0.50
6:JD:81:LYS:NZ	6:JD:85:ASP:OD2	2.44	0.50
6:JD:142:ARG:CG	6:JD:143:ASP:N	2.75	0.50
7:MD:59:MET:HE1	7:MD:129:ARG:O	2.11	0.50
7:MD:96:ALA:HB1	7:MD:102:ALA:HA	1.94	0.50
7:FE:7:ARG:NH2	7:FE:103:SER:OG	2.45	0.50
6:IE:77:GLU:OE2	6:IE:78:LYS:NZ	2.45	0.50
7:LE:7:ARG:NH2	7:LE:103:SER:OG	2.45	0.50
3:BF:204:ARG:NH1	21:uP:57:ALA:CB	2.73	0.50
5:FF:75:THR:HG22	5:FF:77:ARG:H	1.76	0.50
6:OF:106:ASP:HA	6:OF:110:ILE:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:kF:1:MET:HE3	7:kF:104:VAL:CB	2.41	0.50
6:CG:128:VAL:HA	6:CG:131:ILE:HG12	1.92	0.50
6:EG:82:CYS:HA	29:EG:201:PEB:HHA1	1.94	0.50
7:FG:108:ARG:NH1	14:MG:203:GLN:NE2	2.45	0.50
6:GG:28:GLN:HA	6:GG:31:ILE:HB	1.94	0.50
14:MG:103:ARG:N	14:MG:103:ARG:CD	2.73	0.50
2:AI:97:GLY:HA3	6:II:2:LYS:HD2	1.93	0.50
5:DI:169:VAL:O	5:DI:169:VAL:HG12	2.12	0.50
4:GI:6:THR:HG22	5:HI:1:MET:HG3	1.93	0.50
5:JI:11:GLN:HE22	27:aP:119:ALA:HB3	1.76	0.50
5:JI:22:THR:CA	27:aP:92:PRO:HG2	2.42	0.50
7:PI:147:THR:HB	7:PI:148:GLU:OE1	2.11	0.50
6:bI:106:ASP:HA	6:bI:110:ILE:HB	1.93	0.50
7:BJ:16:ALA:HB2	7:JJ:69:PRO:HG2	1.92	0.50
7:FJ:125:ASN:ND2	7:XJ:70:GLY:O	2.45	0.50
7:RJ:33:ASP:OD1	7:RJ:36:LYS:HE3	2.11	0.50
6:mJ:41:ALA:HB3	7:nJ:24:LEU:HD11	1.93	0.50
19:zJ:332:LEU:CD2	20:pP:64:ASP:N	2.52	0.50
4:CK:8:ALA:HB1	4:CK:23:GLU:HB3	1.94	0.50
4:IK:49:GLN:HE22	15:bM:337:PRO:HB3	1.70	0.50
5:NK:65:GLN:HA	5:NK:68:GLN:HB2	1.93	0.50
6:UK:154:ALA:HA	6:UK:157:ASP:OD2	2.11	0.50
6:AL:68:ASN:HB2	6:AL:71:GLU:HG2	1.89	0.50
7:DL:33:ASP:OD1	7:DL:36:LYS:HE3	2.11	0.50
7:LL:30:PHE:HB2	28:bP:228:ILE:CD1	2.41	0.50
29:LL:201:PEB:HBD1	19:zL:217:ALA:O	2.11	0.50
6:iL:48:HIS:HA	6:iL:51:VAL:HG22	1.94	0.50
6:oL:48:HIS:HA	6:oL:51:VAL:HG22	1.94	0.50
15:bM:366:LYS:HD2	21:oP:58:LYS:HG3	1.93	0.50
7:NM:25:GLN:HG3	21:oP:147:LYS:HG3	1.59	0.50
7:RM:106:GLU:OE2	7:RM:171:ARG:NH1	2.45	0.50
7:eM:83:LEU:HD12	6:lM:116:VAL:HG12	1.94	0.50
6:KN:149:GLY:O	6:KN:153:SER:OG	2.26	0.50
7:LN:75:THR:OG1	7:LN:76:ASN:N	2.41	0.50
7:LO:65:GLY:O	7:LO:68:SER:OG	2.30	0.50
9:OO:214:ASN:HB2	9:OO:252:ARG:HD2	1.93	0.50
20:NP:106:GLU:CG	24:XP:62:VAL:HG21	2.41	0.50
21:OP:137:THR:O	21:OP:141:VAL:HG22	2.10	0.50
25:YP:603:ARG:HA	25:YP:606:ILE:CG2	2.40	0.50
27:aP:176:ALA:O	27:aP:180:THR:HG23	2.12	0.50
21:dP:94:TYR:CG	20:eP:8:ILE:HG23	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FQ:141:PHE:CE2	29:FQ:203:PEB:C4A	2.95	0.50
7:FQ:153:PHE:HB2	29:FQ:202:PEB:HMA3	1.93	0.50
7:LQ:157:ASP:OD2	7:LQ:159:THR:OG1	2.27	0.50
14:MQ:255:TYR:O	14:MQ:256:THR:OG1	2.29	0.50
6:MR:107:GLU:O	7:VR:77:ARG:CD	2.55	0.50
7:VR:59:MET:SD	7:VR:130:ALA:HB2	2.52	0.50
3:B1:204:ARG:HD3	3:B1:204:ARG:H	1.75	0.50
5:J1:17:GLU:CG	15:bB:333:ARG:HD2	2.41	0.50
6:U1:154:ALA:HA	6:U1:157:ASP:OD2	2.11	0.50
7:N2:40:ALA:O	7:N2:43:SER:OG	2.25	0.50
7:P2:110:LEU:HD21	7:P2:172:VAL:HG13	1.94	0.50
6:U2:137:ARG:NE	29:U2:202:PEB:NC	2.59	0.50
6:C3:1:MET:SD	6:C3:1:MET:N	2.80	0.50
6:F4:25:GLU:OE2	6:H4:33:ARG:CG	2.52	0.50
7:G4:9:VAL:O	7:G4:12:SER:OG	2.19	0.50
6:H4:140:VAL:HG22	6:H4:146:ALA:HA	1.92	0.50
7:I4:4:ALA:O	7:I4:7:ARG:HB2	2.12	0.50
7:K4:33:ASP:OD1	7:K4:33:ASP:N	2.24	0.50
7:M4:26:ALA:HA	7:M4:29:SER:HG	1.76	0.50
7:B5:114:LYS:HB2	7:B5:176:ILE:HA	1.93	0.50
7:C5:66:LEU:HB3	7:C5:73:CYS:HB2	1.92	0.50
13:k6:178:LYS:HA	13:k6:178:LYS:HE2	1.93	0.50
6:Q7:149:GLY:O	6:Q7:153:SER:OG	2.29	0.50
6:S7:28:GLN:HE21	29:T7:202:PEB:CBD	2.25	0.50
6:S7:37:ARG:NH1	6:S7:98:VAL:O	2.43	0.50
6:f7:149:GLY:O	6:f7:153:SER:OG	2.29	0.50
7:I8:27:LEU:HD21	19:zJ:298:ALA:HB2	1.85	0.50
6:W9:30:ASN:OD1	6:W9:37:ARG:NH2	2.40	0.50
6:W9:140:VAL:HG11	6:W9:146:ALA:CB	2.40	0.50
6:W9:142:ARG:HH12	29:W9:202:PEB:CHB	2.24	0.50
6:l9:30:ASN:OD1	6:l9:37:ARG:NH2	2.40	0.50
7:BA:41:VAL:HG12	7:BA:97:LEU:HD23	1.93	0.50
7:HA:135:LYS:HE2	7:HA:169:PHE:HB3	1.94	0.50
6:KA:124:THR:HA	6:KA:127:TYR:HB2	1.93	0.50
29:MA:405:PEB:NB	29:MA:405:PEB:NC	2.60	0.50
6:GB:138:LEU:CB	29:GB:202:PEB:CMD	2.88	0.50
7:JB:106:GLU:OE2	7:JB:171:ARG:NH1	2.45	0.50
7:RB:60:ILE:HD13	7:RB:66:LEU:HD12	1.93	0.50
7:XB:106:GLU:OE2	7:XB:171:ARG:NH1	2.45	0.50
7:DC:7:ARG:NH2	7:DC:103:SER:OG	2.45	0.50
18:MC:165:VAL:HA	18:MC:168:TYR:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:dD:115:ARG:NH1	10:dD:176:ASP:HB3	2.27	0.50
7:ED:129:ARG:NH2	7:ED:132:SER:OG	2.45	0.50
6:FD:47:ASN:HB2	6:FD:50:ALA:HB3	1.93	0.50
7:GD:36:LYS:HZ1	29:GD:202:PEB:HBB2	1.75	0.50
7:ID:51:MET:CE	7:ID:141:PHE:HE2	2.22	0.50
7:ID:96:ALA:HB1	7:ID:102:ALA:HA	1.94	0.50
6:LD:59:CYS:HB3	6:LD:130:SER:HB3	1.94	0.50
6:CE:136:ASP:OD1	6:CE:136:ASP:N	2.42	0.50
7:DE:51:MET:CE	7:DE:137:GLN:HB2	2.37	0.50
6:hF:106:ASP:HA	6:hF:110:ILE:HB	1.93	0.50
7:iF:135:LYS:NZ	7:iF:170:ASP:OD1	2.43	0.50
6:lF:106:ASP:HA	6:lF:110:ILE:HB	1.93	0.50
6:AG:22:SER:HB3	6:CG:101:GLY:HA2	1.94	0.50
6:AG:144:MET:HG3	6:AG:148:ALA:HB3	1.94	0.50
29:BG:201:PEB:CGC	29:MG:404:PEB:CBD	2.86	0.50
29:BG:201:PEB:HMD2	14:MG:122:PHE:CE2	2.47	0.50
7:FG:157:ASP:OD2	7:FG:159:THR:OG1	2.27	0.50
7:HG:46:SER:OG	7:HG:47:ASN:N	2.44	0.50
6:IG:28:GLN:HA	6:IG:31:ILE:HB	1.94	0.50
7:LG:125:ASN:HA	7:LG:128:ILE:HG12	1.92	0.50
3:BI:210:GLU:C	27:aP:71:VAL:HG23	2.37	0.50
3:BI:219:ALA:HB2	27:aP:61:ARG:N	2.27	0.50
4:II:1:MET:HE2	4:II:109:GLU:OE1	2.12	0.50
7:dJ:33:ASP:OD1	7:dJ:36:LYS:HE3	2.10	0.50
7:rJ:33:ASP:OD1	7:rJ:36:LYS:HE3	2.11	0.50
4:EK:8:ALA:HB1	4:EK:23:GLU:HB3	1.94	0.50
5:NK:19:LEU:HD12	5:NK:23:GLN:CB	2.40	0.50
7:VK:125:ASN:ND2	7:cK:70:GLY:O	2.41	0.50
6:hK:49:GLU:O	6:hK:53:LYS:HD2	2.12	0.50
6:CL:71:GLU:HA	6:CL:71:GLU:OE1	2.12	0.50
6:IL:48:HIS:HA	6:IL:51:VAL:HG22	1.94	0.50
6:YL:140:VAL:CG2	6:YL:146:ALA:HA	2.42	0.50
7:bL:33:ASP:OD1	7:bL:36:LYS:HE3	2.11	0.50
7:IL:33:ASP:OD1	7:IL:33:ASP:N	2.43	0.50
19:zL:332:LEU:HD21	20:NP:63:PRO:HB2	1.94	0.50
15:bM:274:ARG:N	7:FM:70:GLY:O	2.45	0.50
7:FM:106:GLU:OE2	7:FM:171:ARG:NH1	2.45	0.50
7:ZM:106:GLU:OE2	7:ZM:171:ARG:NH1	2.45	0.50
6:aM:6:THR:HG22	7:cM:1:MET:HE2	1.93	0.50
7:gM:31:ILE:O	7:gM:31:ILE:HG22	2.12	0.50
6:EN:33:ARG:HB2	6:GN:25:GLU:OE2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FN:81:ALA:HB2	14:MN:174:ARG:NH2	2.27	0.50
7:LN:82:CYS:HA	29:LN:201:PEB:HHA1	1.92	0.50
7:LN:135:LYS:HE2	7:LN:169:PHE:HB3	1.94	0.50
6:AO:2:LYS:NZ	6:CO:23:ASP:OD1	2.45	0.50
7:BO:75:THR:OG1	7:BO:76:ASN:N	2.41	0.50
6:KO:138:LEU:HD21	6:KO:149:GLY:HA2	1.92	0.50
21:DP:139:SER:HB2	20:iP:45:GLU:CG	2.42	0.50
20:KP:90:ARG:NH2	21:OP:16:GLY:HA2	2.27	0.50
24:XP:43:ASP:HB2	24:XP:59:SER:O	2.11	0.50
24:XP:57:ILE:HG23	24:XP:102:TYR:HD2	1.77	0.50
28:bP:237:PRO:O	28:bP:241:LEU:HG	2.12	0.50
20:gP:18:LEU:HG	20:gP:22:GLU:OE1	2.12	0.50
21:wP:119:LEU:CD2	25:1P:698:VAL:HA	2.41	0.50
6:AQ:2:LYS:HZ1	30:MQ:405:PUB:HBB1	1.70	0.50
7:BQ:46:SER:OG	7:BQ:47:ASN:N	2.44	0.50
7:BQ:141:PHE:CZ	29:BQ:203:PEB:HMB3	2.47	0.50
6:GQ:136:ASP:OD1	6:GQ:136:ASP:N	2.30	0.50
7:JQ:147:THR:HG23	29:JQ:203:PEB:CGB	2.42	0.50
6:QR:54:GLU:CD	29:QR:202:PEB:C3C	2.84	0.50
7:RR:59:MET:SD	7:RR:130:ALA:HB2	2.52	0.50
1:X1:134:LYS:HD2	1:X1:183:GLU:HG2	1.93	0.50
3:B1:17:VAL:HG12	31:N1:1001:CYC:C4B	2.39	0.50
5:L1:144:ASP:HB2	4:G7:70:PRO:HG3	1.94	0.50
7:V1:159:THR:OG1	14:MA:103:ARG:HG2	2.11	0.50
6:h1:33:ARG:HD2	6:h1:151:GLU:OE2	2.12	0.50
7:V2:56:VAL:HG21	7:V2:83:LEU:HD23	1.94	0.50
6:W2:50:ALA:O	6:W2:53:LYS:HB2	2.12	0.50
7:D3:38:LEU:HB3	29:D3:202:PEB:C2D	2.42	0.50
10:d4:156:SER:CA	29:E4:201:PEB:CGC	2.90	0.50
7:K4:74:TYR:HB3	7:K4:78:ARG:NH2	2.21	0.50
7:M4:4:ALA:O	7:M4:7:ARG:HB2	2.12	0.50
7:K5:112:GLY:HA3	27:aP:269:LYS:CE	2.38	0.50
5:H7:78:ARG:CG	5:H7:78:ARG:NH1	2.73	0.50
4:M7:79:ILE:CD1	20:JP:41:GLN:HE22	2.24	0.50
6:f7:26:SER:HB3	6:h7:26:SER:HB3	1.93	0.50
7:H8:114:LYS:HB2	7:H8:176:ILE:HA	1.93	0.50
1:X9:325:LYS:O	5:D9:84:ARG:NH1	2.44	0.50
5:H9:23:GLN:OE1	13:kH:163:ALA:O	2.24	0.50
7:R9:42:ASN:O	7:R9:46:SER:OG	2.30	0.50
6:d9:84:ARG:HH12	7:i9:67:ILE:HD12	1.77	0.50
6:EA:33:ARG:HB2	6:GA:25:GLU:OE2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HA:41:VAL:HG12	7:HA:97:LEU:HD23	1.93	0.50
16:AB:168:VAL:O	16:AB:234:ARG:NH2	2.43	0.50
7:PB:106:GLU:OE2	7:PB:171:ARG:NH1	2.45	0.50
7:gB:76:ASN:HD22	6:jB:109:GLY:HA2	1.77	0.50
7:kB:88:ILE:HG22	7:kB:89:ILE:N	2.27	0.50
7:JC:33:ASP:HB2	7:JC:36:LYS:HB2	1.94	0.50
29:BD:201:PEB:O2C	29:BD:201:PEB:HBB1	2.12	0.50
7:JE:7:ARG:NH2	7:JE:103:SER:OG	2.45	0.50
18:ME:65:LYS:C	18:ME:67:GLN:N	2.70	0.50
18:ME:144:ARG:HG2	18:ME:145:ASP:N	2.24	0.50
18:ME:301:ASN:HD21	6:gL:53:LYS:HZ2	1.58	0.50
2:AF:97:GLY:HA3	6:lF:2:LYS:HD2	1.93	0.50
3:BF:95:ASP:N	3:BF:95:ASP:OD1	2.43	0.50
5:Nf:39:ASP:CG	29:Nf:1002:PEB:HHC1	2.37	0.50
6:CG:82:CYS:HA	29:CG:201:PEB:HHA1	1.94	0.50
14:MG:101:LEU:HD23	14:MG:101:LEU:C	2.36	0.50
6:QI:108:TRP:CD1	7:VI:75:THR:HG21	2.47	0.50
6:aJ:2:LYS:HD2	16:wJ:193:GLY:HA3	1.93	0.50
7:nJ:108:ARG:HG2	16:xJ:197:LEU:HB3	1.92	0.50
3:BK:200:ALA:HB1	20:IP:66:VAL:O	2.11	0.50
5:HK:145:THR:HG22	29:HK:1002:PEB:HMA2	1.92	0.50
6:jK:49:GLU:O	6:jK:53:LYS:HD2	2.12	0.50
7:JL:5:PHE:HZ	7:JL:31:ILE:CG1	2.24	0.50
6:WL:72:ALA:O	6:WL:78:LYS:HD2	2.12	0.50
6:kL:48:HIS:HA	6:kL:51:VAL:HG22	1.94	0.50
6:KM:54:GLU:CD	29:KM:202:PEB:HAC1	2.36	0.50
7:XM:106:GLU:OE2	7:XM:171:ARG:NH1	2.45	0.50
7:cM:106:GLU:OE2	7:cM:171:ARG:NH1	2.45	0.50
6:dM:17:ARG:O	7:eM:95:TYR:OH	2.29	0.50
7:JN:21:GLY:HA2	7:JN:24:LEU:HB2	1.94	0.50
6:AO:142:ARG:HE	29:AO:202:PEB:HNA	1.60	0.50
7:DO:109:CYS:O	9:OO:55:TYR:OH	2.26	0.50
22:VP:64:GLU:OE2	22:VP:64:GLU:N	2.35	0.50
27:aP:287:LEU:HD13	27:aP:287:LEU:H	1.77	0.50
21:dP:83:ARG:HH12	25:1P:486:GLY:C	2.20	0.50
21:dP:89:LEU:CD2	20:eP:17:TYR:OH	2.60	0.50
21:jP:14:VAL:CG2	23:yP:72:ASN:HA	2.41	0.50
20:IP:18:LEU:HG	20:IP:22:GLU:OE1	2.12	0.50
20:tP:18:LEU:HG	20:tP:22:GLU:OE1	2.12	0.50
20:vP:127:ALA:CB	27:3P:250:VAL:HG21	2.41	0.50
6:AQ:144:MET:HG3	6:AQ:148:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GQ:144:MET:HG3	6:GQ:148:ALA:HB3	1.94	0.50
6:KQ:28:GLN:HA	6:KQ:31:ILE:HB	1.94	0.50
29:eR:401:PEB:CMA	7:PR:59:MET:CE	2.88	0.50
7:NR:40:ALA:O	7:NR:43:SER:OG	2.25	0.50
6:OR:105:LEU:HG	6:OR:110:ILE:HG13	1.94	0.50
6:UR:116:VAL:HG13	6:UR:120:LEU:CD1	2.38	0.50
8:e2:111:GLU:CD	6:W2:114:ARG:HD2	2.36	0.49
6:M2:138:LEU:CB	29:M2:202:PEB:HMD1	2.42	0.49
6:O2:105:LEU:HG	6:O2:110:ILE:HG13	1.94	0.49
7:T2:59:MET:SD	7:T2:130:ALA:HB2	2.52	0.49
6:A3:2:LYS:NZ	6:C3:23:ASP:OD1	2.45	0.49
7:B3:120:LEU:HD23	7:B3:122:VAL:HG23	1.93	0.49
6:I3:151:GLU:HB2	6:K3:21:ASN:HD21	1.77	0.49
7:N3:91:ARG:CZ	9:O3:377:ALA:HB3	2.42	0.49
9:O3:42:LEU:HA	9:O3:47:ASN:HD21	1.77	0.49
29:D4:201:PEB:O2C	29:D4:201:PEB:HBB1	2.12	0.49
6:F4:82:CYS:HA	29:F4:201:PEB:HHA1	1.93	0.49
7:G4:72:MEN:C	7:G4:78:ARG:HG2	2.42	0.49
12:E5:185:ALA:HB3	6:bl:67:LYS:HZ3	1.76	0.49
2:A7:152:CYS:SG	29:A7:304:PEB:CHA	2.99	0.49
6:W7:149:GLY:O	6:W7:153:SER:OG	2.29	0.49
6:d7:149:GLY:O	6:d7:153:SER:OG	2.29	0.49
7:H8:91:ARG:HH12	12:E8:62:GLU:CD	2.19	0.49
7:I8:28:LYS:HB3	19:zJ:290:LEU:O	2.12	0.49
1:X9:112:ASP:N	1:X9:112:ASP:OD1	2.45	0.49
6:Q9:149:GLY:O	6:Q9:153:SER:OG	2.29	0.49
7:Y9:39:ASP:OD1	7:Y9:153:PHE:CD1	2.65	0.49
6:d9:37:ARG:NH1	6:d9:98:VAL:O	2.43	0.49
7:JA:21:GLY:HA2	7:JA:24:LEU:HB2	1.94	0.49
6:KA:43:LYS:HZ3	6:KA:143:ASP:HB3	1.77	0.49
7:DB:106:GLU:OE2	7:DB:171:ARG:NH1	2.45	0.49
7:HB:106:GLU:OE2	7:HB:171:ARG:NH1	2.45	0.49
6:MB:54:GLU:CD	29:MB:202:PEB:HAC1	2.36	0.49
7:VB:106:GLU:OE2	7:VB:171:ARG:NH1	2.45	0.49
7:eB:83:LEU:HD12	6:lB:116:VAL:HG12	1.94	0.49
7:gB:53[B]:SER:HB3	6:jB:119:THR:HG22	1.94	0.49
7:iB:106:GLU:OE2	7:iB:171:ARG:NH1	2.45	0.49
6:jB:50:ALA:O	6:jB:54:GLU:CD	2.55	0.49
7:JC:7:ARG:NH2	7:JC:103:SER:OG	2.45	0.49
10:dD:307:TYR:HA	10:dD:310:GLN:NE2	2.26	0.49
10:dD:310:GLN:HG2	10:dD:311:GLN:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:82:CYS:HA	29:BD:201:PEB:HHA1	1.93	0.49
7:CD:50:CYS:SG	29:CD:203:PEB:H2A1	2.52	0.49
7:ID:36:LYS:HZ3	29:ID:202:PEB:C2B	2.25	0.49
7:ID:59:MET:HE1	7:ID:129:ARG:O	2.12	0.49
7:KD:96:ALA:HB1	7:KD:102:ALA:HA	1.94	0.49
7:DE:33:ASP:HB2	7:DE:36:LYS:HB2	1.94	0.49
6:EE:17:ARG:NH1	6:GE:106:ASP:OD2	2.45	0.49
18:ME:64:GLU:HG3	18:ME:67:GLN:HG3	1.94	0.49
4:CF:33:ARG:HH12	29:NF:1002:PEB:CAD	2.06	0.49
5:DF:169:VAL:O	5:DF:169:VAL:HG12	2.12	0.49
6:dF:99:VAL:HG23	7:eF:9:VAL:HG21	1.94	0.49
7:gF:69:PRO:HG3	7:kF:16:ALA:HB2	1.93	0.49
7:mF:135:LYS:NZ	7:mF:170:ASP:OD1	2.43	0.49
6:GG:107:GLU:OE1	14:MG:309:CYS:HA	2.11	0.49
7:HG:136:ALA:HB3	29:HG:203:PEB:CGC	2.42	0.49
29:LG:201:PEB:HMC2	14:MG:237:ILE:CG2	2.42	0.49
3:BI:228:MET:HG2	3:BI:230:PRO:HD3	1.94	0.49
6:SI:32:GLN:HG3	6:UI:32:GLN:HG3	1.94	0.49
7:FJ:116:THR:O	7:FJ:120:LEU:HD12	2.11	0.49
7:IJ:16:ALA:HB2	7:tJ:69:PRO:CG	2.33	0.49
6:mJ:38:LEU:HD22	7:nJ:24:LEU:HD22	1.94	0.49
6:sJ:33:ARG:NH2	6:uJ:24:LEU:O	2.43	0.49
1:XK:125:LEU:O	1:XK:195:TYR:CZ	2.65	0.49
3:BK:202:PRO:HD3	5:LK:65:GLN:NE2	2.27	0.49
6:bK:157:ASP:OD1	6:bK:160:ILE:HD12	2.11	0.49
6:QL:47:ASN:HD21	29:QL:202:PEB:HMC1	1.77	0.49
6:cL:68:ASN:O	6:cL:70:GLY:N	2.44	0.49
6:mL:41:ALA:HB3	7:nL:24:LEU:HD11	1.93	0.49
16:wL:175:GLU:O	16:xL:37:THR:HG21	2.12	0.49
17:yL:120:ALA:O	30:yL:303:PUB:HMC3	2.11	0.49
19:zL:363:ARG:NE	21:LP:67:ARG:HH22	2.10	0.49
6:WM:54:GLU:CD	29:WM:202:PEB:HAC1	2.36	0.49
6:YM:54:GLU:CD	29:YM:203:PEB:HAC1	2.36	0.49
7:BN:41:VAL:HG12	7:BN:97:LEU:HD23	1.93	0.49
6:CN:5:ILE:HA	6:CN:8:VAL:HG22	1.93	0.49
7:DN:77:ARG:HA	6:KN:112:GLY:HA3	1.94	0.49
6:GN:124:THR:HA	6:GN:127:TYR:HB2	1.93	0.49
7:HN:8:VAL:HG21	7:HN:27:LEU:HD11	1.94	0.49
7:JN:135:LYS:HE2	7:JN:169:PHE:HB3	1.94	0.49
25:YP:553:LYS:HG3	25:YP:558:ASN:HB2	1.94	0.49
20:mP:18:LEU:HG	20:mP:22:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HQ:46:SER:OG	7:HQ:47:ASN:N	2.44	0.49
7:HQ:157:ASP:OD2	7:HQ:159:THR:OG1	2.27	0.49
7:LQ:153:PHE:HB2	29:LQ:201:PEB:HMA3	1.93	0.49
7:NR:110:LEU:HD21	7:NR:172:VAL:HG13	1.94	0.49
7:RR:44:ILE:HD11	7:RR:142:ILE:HD11	1.93	0.49
1:X1:125:LEU:O	1:X1:195:TYR:CZ	2.65	0.49
2:A1:200:ARG:NH2	7:m1:92:TYR:OH	2.31	0.49
3:B1:225:VAL:HG12	20:AP:82:LEU:CD1	2.42	0.49
4:E1:8:ALA:HB1	4:E1:23:GLU:HB3	1.94	0.49
5:H1:154:SER:HA	5:H1:157:VAL:HG22	1.95	0.49
5:J1:17:GLU:HG3	15:bB:333:ARG:HG3	1.92	0.49
6:Q1:34:SER:OG	7:R1:31:ILE:HG21	2.12	0.49
6:S1:52:VAL:HG21	6:S1:87:ASP:HA	1.95	0.49
6:M2:116:VAL:CG1	6:M2:120:LEU:HD12	2.41	0.49
6:O2:108:TRP:CD1	7:T2:77:ARG:NH2	2.80	0.49
7:R2:110:LEU:HD21	7:R2:172:VAL:HG13	1.94	0.49
7:V2:65:GLY:O	7:V2:68:SER:OG	2.26	0.49
7:V2:110:LEU:HD21	7:V2:172:VAL:HG13	1.94	0.49
10:d4:69:GLU:HA	10:d4:72:GLN:NE2	2.26	0.49
7:C4:41:VAL:HG21	7:C4:98:LEU:HD12	1.95	0.49
6:F4:59:CYS:HB3	6:F4:130:SER:HB3	1.94	0.49
29:J4:201:PEB:O2C	29:J4:201:PEB:HBB1	2.12	0.49
7:K4:59:MET:HE1	7:K4:129:ARG:O	2.11	0.49
7:I5:74:TYR:HD1	15:bB:238:ARG:NH1	2.08	0.49
7:L5:101:ASP:OD2	7:L5:103:SER:OG	2.30	0.49
13:k6:220:GLU:O	4:E7:79:ILE:HG13	2.02	0.49
3:B7:9:SER:OG	3:B7:10:LEU:N	2.45	0.49
5:D7:77:ARG:NH1	31:D7:1001:CYC:O2D	2.45	0.49
7:G8:114:LYS:HB2	7:G8:176:ILE:HA	1.93	0.49
6:J8:36:ALA:HA	28:4P:237:PRO:HB3	1.94	0.49
7:A8:76:ASN:ND2	7:C8:119:ALA:CB	2.75	0.49
3:B9:224:MET:CE	20:PP:52:LYS:HG3	2.23	0.49
5:F9:12:ALA:HB1	5:F9:17:GLU:O	2.12	0.49
5:N9:159:GLU:CB	26:ZP:101:VAL:HG11	2.40	0.49
6:W9:6:THR:HB	7:Y9:1:MET:HE3	1.92	0.49
7:m9:39:ASP:OD1	7:m9:153:PHE:CD1	2.65	0.49
7:m9:157:ASP:OD1	7:m9:159:THR:HG23	2.13	0.49
7:BA:8:VAL:HG21	7:BA:27:LEU:HD11	1.94	0.49
7:BA:135:LYS:HE2	7:BA:169:PHE:HB3	1.94	0.49
7:FA:41:VAL:HG12	7:FA:97:LEU:HD23	1.94	0.49
6:IA:5:ILE:HA	6:IA:8:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CB:6:THR:HG22	7:DB:1:MET:HG3	1.94	0.49
6:GB:54:GLU:HG3	6:GB:133:TYR:CE2	2.31	0.49
7:VB:84:ARG:NH2	29:VB:201:PEB:C1C	2.74	0.49
6:IB:91:ARG:HG2	6:IB:91:ARG:NH1	2.26	0.49
10:dD:288:ARG:HH22	7:TI:62:GLU:HG2	1.69	0.49
6:BD:17:ARG:CZ	6:BD:17:ARG:HB3	2.42	0.49
7:CD:59:MET:HE1	7:CD:129:ARG:O	2.11	0.49
6:FD:29:GLY:HA2	6:FD:32:GLN:HE22	1.77	0.49
6:FD:34:SER:CB	6:FD:37:ARG:HH21	2.25	0.49
7:ID:4:ALA:O	7:ID:7:ARG:HB2	2.12	0.49
7:ID:41:VAL:HG21	7:ID:98:LEU:HD21	1.93	0.49
6:JD:34:SER:CB	6:JD:37:ARG:HH21	2.25	0.49
6:EE:33:ARG:HH22	6:GE:28:GLN:CD	2.21	0.49
18:ME:165:VAL:HA	18:ME:168:TYR:HD2	1.76	0.49
4:CF:49:GLN:HA	4:CF:49:GLN:OE1	2.13	0.49
7:YF:170:ASP:OD1	7:YF:170:ASP:O	2.30	0.49
7:gF:129:ARG:NH1	7:gF:132:SER:OG	2.44	0.49
7:FG:75:THR:HB	7:FG:78:ARG:HE	1.78	0.49
29:FG:201:PEB:HBD2	14:MG:181:TYR:HB3	1.94	0.49
6:KG:28:GLN:HA	6:KG:31:ILE:HB	1.94	0.49
5:NI:39:ASP:CG	29:NI:1002:PEB:HH1	2.37	0.49
6:AJ:152:PHE:CZ	6:AJ:156:LEU:HD11	2.46	0.49
6:CJ:48:HIS:HA	6:CJ:51:VAL:HG22	1.94	0.49
6:QJ:47:ASN:HD21	29:QJ:202:PEB:HMC1	1.77	0.49
29:RJ:202:PEB:OD	6:SJ:33:ARG:HD2	2.13	0.49
6:gJ:48:HIS:HA	6:gJ:51:VAL:HG22	1.94	0.49
3:BK:85:LYS:HD2	3:BK:141:ILE:HB	1.94	0.49
3:BK:204:ARG:HD3	3:BK:204:ARG:H	1.75	0.49
6:hK:157:ASP:OD1	6:hK:160:ILE:HD12	2.11	0.49
7:DL:125:ASN:OD1	7:DL:125:ASN:N	2.41	0.49
6:GL:118:ARG:NH1	6:IL:114:ARG:HD2	2.26	0.49
7:RL:110:LEU:HD22	7:RL:175:ALA:HB3	1.95	0.49
7:TL:110:LEU:HD22	7:TL:175:ALA:HB3	1.94	0.49
17:yL:160:ASP:HA	17:yL:163:GLU:HG2	1.93	0.49
7:HM:106:GLU:OE2	7:HM:171:ARG:NH1	2.45	0.49
6:OM:54:GLU:CD	29:OM:202:PEB:HAC1	2.36	0.49
7:gM:106:GLU:OE2	7:gM:171:ARG:NH1	2.45	0.49
6:CN:124:THR:HA	6:CN:127:TYR:HB2	1.93	0.49
7:FO:39:ASP:OD2	29:FO:202:PEB:NC	2.43	0.49
21:DP:15:GLN:HE22	23:WP:137:GLN:HB2	1.76	0.49
20:KP:97:ILE:HD12	21:OP:19:LEU:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YP:28:ALA:HB1	25:YP:35:LEU:H	1.77	0.49
20:mP:94:TYR:CE2	21:qP:13:ASP:HB2	2.47	0.49
20:rP:17:TYR:CE2	21:wP:44:ILE:HG22	2.47	0.49
21:uP:60:LEU:HD13	21:uP:72:MET:SD	2.51	0.49
22:xP:49:GLU:OE1	22:xP:140:VAL:HG11	2.13	0.49
25:1P:750:GLN:HG3	25:1P:755:GLN:NE2	2.26	0.49
7:BQ:47:ASN:HB2	29:BQ:203:PEB:HMA1	1.94	0.49
6:CQ:2:LYS:NZ	14:MQ:138:SER:C	2.67	0.49
7:DQ:51:MET:HB3	7:DQ:134:MET:HE1	1.94	0.49
6:EQ:54:GLU:OE1	6:EQ:137:ARG:NH2	2.37	0.49
7:LQ:109:CYS:C	14:MQ:236:TYR:CE1	2.70	0.49
14:MQ:167:ARG:HD3	14:MQ:170:GLN:HE21	1.77	0.49
6:QR:139:CYS:HG	29:QR:202:PEB:HAA2	1.72	0.49
6:SR:118:ARG:HH11	6:UR:114:ARG:HE	1.57	0.49
4:K1:8:ALA:HB1	4:K1:23:GLU:HB3	1.94	0.49
6:S1:18:PHE:CE2	7:T1:91:ARG:HA	2.47	0.49
6:f1:52:VAL:HG21	6:f1:87:ASP:HA	1.95	0.49
8:e2:266:LEU:HB3	8:e2:270:THR:HG21	1.93	0.49
6:Q2:2:LYS:HZ2	6:S2:17:ARG:HH21	1.59	0.49
7:R2:56:VAL:HG21	7:R2:83:LEU:HD23	1.94	0.49
6:W2:47:ASN:HD22	29:W2:202:PEB:C4D	2.24	0.49
9:O3:105:ASP:N	9:O3:105:ASP:OD1	2.44	0.49
9:O3:214:ASN:HB2	9:O3:252:ARG:HD2	1.93	0.49
6:B4:2:LYS:CD	6:D4:17:ARG:NH1	2.75	0.49
29:B4:201:PEB:O2C	29:B4:201:PEB:HHB1	2.12	0.49
7:E4:96:ALA:HB1	7:E4:102:ALA:HA	1.94	0.49
6:F4:106:ASP:OD2	6:H4:17:ARG:NH1	2.46	0.49
29:H4:201:PEB:O2C	29:H4:201:PEB:HHB1	2.12	0.49
6:J4:29:GLY:HA2	6:J4:32:GLN:HE22	1.77	0.49
7:K4:4:ALA:O	7:K4:7:ARG:HB2	2.12	0.49
7:K4:96:ALA:HB1	7:K4:102:ALA:HA	1.94	0.49
7:G5:114:LYS:HB2	7:G5:176:ILE:HA	1.93	0.49
7:A5:79:MET:HE2	11:D5:233:ALA:HB1	1.94	0.49
7:C5:67:ILE:O	7:C5:74:TYR:CD1	2.61	0.49
4:C7:77:SER:OG	4:C7:78:ALA:N	2.44	0.49
5:N7:144:ASP:OD1	5:N7:144:ASP:N	2.46	0.49
7:g7:42:ASN:O	7:g7:46:SER:OG	2.30	0.49
6:f9:33:ARG:HH21	29:i9:202:PEB:HAD1	1.76	0.49
6:j9:37:ARG:NH1	6:j9:98:VAL:O	2.43	0.49
6:AA:149:GLY:O	6:AA:153:SER:OG	2.26	0.49
7:FA:91:ARG:NH1	7:FA:95:TYR:OH	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BB:72:LYS:HA	17:BB:75:LYS:HD3	1.95	0.49
6:KB:18:PHE:CE2	7:LB:91:ARG:HA	2.48	0.49
6:KC:77:GLU:OE2	6:KC:78:LYS:NZ	2.45	0.49
18:MC:45:PHE:HZ	18:MC:254:ALA:N	2.10	0.49
10:dD:327:SER:O	10:dD:328:LYS:HE2	2.12	0.49
6:DD:59:CYS:HB3	6:DD:130:SER:HB3	1.94	0.49
6:DD:94:ASN:ND2	7:ED:18:TYR:HD1	2.04	0.49
7:GD:96:ALA:HB1	7:GD:102:ALA:HA	1.94	0.49
6:JD:84:ARG:HG2	6:JD:85:ASP:N	2.26	0.49
7:KD:148:GLU:CD	29:KD:203:PEB:OA	2.55	0.49
6:LD:82:CYS:HA	29:LD:201:PEB:HHA1	1.93	0.49
6:AE:77:GLU:OE2	6:AE:78:LYS:NZ	2.45	0.49
7:JE:51:MET:HE1	7:JE:137:GLN:HB3	0.63	0.49
29:LE:201:PEB:CAB	18:ME:219:SER:HB3	2.38	0.49
29:DF:1002:PEB:HHC2	4:MF:145:GLN:HE22	1.78	0.49
5:JF:63:GLN:CG	20:rP:73:TYR:OH	2.60	0.49
4:KF:70:PRO:HG3	9:OO:308:TYR:HD2	1.77	0.49
7:PF:40:ALA:HB1	7:PF:142:ILE:HD12	1.93	0.49
6:AG:28:GLN:HA	6:AG:31:ILE:HB	1.94	0.49
6:AG:122:LEU:HD22	29:AG:201:PEB:HNA	1.76	0.49
7:DG:170:ASP:OD1	7:DG:170:ASP:N	2.44	0.49
6:EG:14:ALA:HB1	14:MG:189:LYS:CG	2.43	0.49
6:EG:14:ALA:HB1	14:MG:189:LYS:HG3	1.93	0.49
6:GG:115:GLU:OE1	6:GG:115:GLU:N	2.46	0.49
6:GG:144:MET:HG3	6:GG:148:ALA:HB3	1.94	0.49
7:JG:51:MET:HB3	7:JG:134:MET:HE1	1.94	0.49
7:LG:153:PHE:HB2	29:LG:202:PEB:HMA3	1.93	0.49
5:HI:75:THR:OG1	5:HI:78:ARG:HB2	2.12	0.49
5:JI:26:ALA:HB2	27:aP:91:VAL:HA	1.94	0.49
7:HJ:118:ILE:HD12	19:zJ:398:GLU:HG2	1.95	0.49
7:JJ:110:LEU:HD22	7:JJ:175:ALA:HB3	1.95	0.49
7:RJ:110:LEU:HD22	7:RJ:175:ALA:HB3	1.95	0.49
6:SJ:74:GLU:N	6:SJ:78:LYS:HG3	2.27	0.49
7:TJ:110:LEU:HD22	7:TJ:175:ALA:HB3	1.94	0.49
6:WJ:19:PRO:O	7:XJ:45:VAL:HG21	2.13	0.49
6:oJ:13:ASP:OD1	7:pJ:92:TYR:OH	2.28	0.49
6:oJ:19:PRO:HG3	7:pJ:95:TYR:HD1	1.78	0.49
16:xJ:139:GLU:O	16:xJ:143:THR:OG1	2.23	0.49
17:yJ:89:PHE:HB3	17:yJ:172:LEU:HD13	1.94	0.49
4:KK:8:ALA:HB1	4:KK:23:GLU:HB3	1.94	0.49
5:LK:154:SER:HA	5:LK:157:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:bK:52:VAL:CG1	6:bK:86:VAL:HG12	2.33	0.49
6:dK:52:VAL:HG21	6:dK:87:ASP:HA	1.95	0.49
7:FL:115:GLU:OE2	17:yL:75:LYS:CG	2.61	0.49
7:HL:25:GLN:O	7:HL:27:LEU:N	2.45	0.49
7:LL:110:LEU:HD22	7:LL:175:ALA:HB3	1.95	0.49
7:ZL:110:LEU:HD22	7:ZL:175:ALA:HB3	1.94	0.49
7:gM:35:ASN:H	7:gM:35:ASN:ND2	2.05	0.49
7:BO:65:GLY:O	7:BO:68:SER:OG	2.30	0.49
21:HP:2:GLN:HB2	21:HP:6:THR:HB	1.94	0.49
22:VP:105:GLU:O	22:VP:110:ILE:HG12	2.10	0.49
25:YP:51:ASN:O	25:YP:55:GLU:HG2	2.13	0.49
25:YP:132:PHE:HZ	25:YP:193:VAL:HG21	1.77	0.49
28:bP:188:VAL:HG11	28:bP:204:SER:HB3	1.94	0.49
21:fP:2:GLN:HB2	21:fP:6:THR:HB	1.95	0.49
20:iP:18:LEU:HG	20:iP:22:GLU:OE1	2.12	0.49
20:lP:91:LEU:HD13	20:lP:107:ILE:O	2.13	0.49
20:mP:91:LEU:HD13	20:mP:107:ILE:O	2.13	0.49
21:nP:75:THR:CG2	20:pP:108:GLY:HA2	2.41	0.49
21:oP:2:GLN:HB2	21:oP:6:THR:HB	1.95	0.49
21:qP:2:GLN:HB2	21:qP:6:THR:HB	1.94	0.49
20:tP:91:LEU:HD13	20:tP:107:ILE:O	2.13	0.49
25:1P:25:ILE:O	25:1P:29:GLU:HB2	2.11	0.49
25:1P:553:LYS:HG3	25:1P:558:ASN:HB2	1.94	0.49
28:4P:188:VAL:HG11	28:4P:204:SER:HB3	1.94	0.49
7:BQ:37:ARG:NH1	7:BQ:97:LEU:O	2.46	0.49
7:DQ:46:SER:OG	7:DQ:47:ASN:N	2.44	0.49
7:FQ:46:SER:OG	7:FQ:47:ASN:N	2.44	0.49
7:JQ:75:THR:HB	7:JQ:78:ARG:HE	1.78	0.49
6:KQ:31:ILE:HD13	7:LQ:34:GLY:HA3	1.93	0.49
7:NR:44:ILE:HD11	7:NR:142:ILE:HD11	1.93	0.49
6:QR:24:LEU:HA	6:QR:27:ILE:HD12	1.95	0.49
7:RR:65:GLY:O	7:RR:68:SER:OG	2.26	0.49
6:SR:91:ARG:NH1	7:TR:16:ALA:CA	2.63	0.49
7:TR:44:ILE:HD11	7:TR:142:ILE:HD11	1.93	0.49
7:XR:77:ARG:NH1	7:XR:77:ARG:HG2	2.27	0.49
1:X1:271:THR:HG23	5:F1:115:GLU:HG3	1.94	0.49
5:J1:154:SER:HA	5:J1:157:VAL:HG22	1.95	0.49
5:L1:68:GLN:OE1	15:bB:347:ALA:CB	2.61	0.49
5:N1:154:SER:HA	5:N1:157:VAL:HG22	1.95	0.49
6:b1:49:GLU:O	6:b1:53:LYS:HD2	2.11	0.49
6:O2:24:LEU:HA	6:O2:27:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O2:138:LEU:HD11	6:O2:144:MET:HE3	1.93	0.49
7:P2:59:MET:SD	7:P2:130:ALA:HB2	2.52	0.49
6:S2:118:ARG:HG2	6:S2:119:THR:N	2.28	0.49
10:d4:306:GLU:O	10:d4:310:GLN:OE1	2.30	0.49
7:C4:4:ALA:O	7:C4:7:ARG:HB2	2.12	0.49
6:D4:47:ASN:HB2	6:D4:50:ALA:HB3	1.93	0.49
7:E4:4:ALA:O	7:E4:7:ARG:HB2	2.12	0.49
7:E4:59:MET:HE2	7:E4:129:ARG:C	2.36	0.49
7:G4:4:ALA:O	7:G4:7:ARG:HB2	2.12	0.49
7:G4:75:THR:CB	29:J4:201:PEB:CAD	2.76	0.49
7:K4:84:ARG:HA	7:K4:87:GLU:OE2	2.11	0.49
7:M4:88:ILE:O	7:M4:91:ARG:HB2	2.12	0.49
7:B5:107:ASP:CG	18:MC:264:LEU:HD22	2.36	0.49
7:B5:108:ARG:CZ	18:MC:268:VAL:N	2.72	0.49
5:H7:78:ARG:HH11	5:H7:78:ARG:HG3	1.73	0.49
5:N7:77:ARG:NH1	31:N7:1001:CYC:O2D	2.45	0.49
6:Q7:43:LYS:NZ	6:Q7:143:ASP:O	2.35	0.49
12:E8:173:PHE:HE2	6:ZF:83:TYR:HE2	1.54	0.49
4:E9:77:SER:OG	4:E9:78:ALA:N	2.44	0.49
4:E9:86:ARG:HG3	8:eR:296:PRO:O	2.12	0.49
4:K9:50:ARG:HG3	3:BI:225:VAL:CG2	2.43	0.49
5:N9:77:ARG:NH1	31:N9:1001:CYC:O2D	2.45	0.49
7:P9:42:ASN:O	7:P9:46:SER:OG	2.30	0.49
7:a9:42:ASN:O	7:a9:46:SER:OG	2.30	0.49
6:h9:43:LYS:NZ	6:h9:143:ASP:O	2.35	0.49
7:HA:8:VAL:HG21	7:HA:27:LEU:HD11	1.94	0.49
7:JA:24:LEU:O	7:JA:27:LEU:N	2.45	0.49
7:JA:41:VAL:HG12	7:JA:97:LEU:HD23	1.93	0.49
7:LA:41:VAL:HG12	7:LA:97:LEU:HD23	1.93	0.49
6:SB:44:LEU:O	6:SB:48:HIS:HB3	2.12	0.49
7:TB:24:LEU:N	7:TB:24:LEU:CD2	2.73	0.49
7:kB:52:VAL:HG12	7:kB:83:LEU:HD22	1.94	0.49
7:kB:85:ASP:OD1	29:kB:201:PEB:C4C	2.59	0.49
7:kB:106:GLU:OE2	7:kB:171:ARG:NH1	2.45	0.49
6:AC:102:THR:HG21	6:AC:158:TYR:CE2	2.48	0.49
6:EC:130:SER:O	6:EC:134:THR:OG1	2.31	0.49
7:LC:33:ASP:HB2	7:LC:36:LYS:HB2	1.94	0.49
18:MC:312:LEU:HD12	18:MC:313:THR:CB	2.42	0.49
6:BD:2:LYS:CD	6:DD:17:ARG:NH1	2.75	0.49
7:CD:90:LEU:HD13	7:CD:134:MET:SD	2.53	0.49
7:CD:133:ILE:HG13	29:CD:203:PEB:HBC1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CD:141:PHE:HZ	29:CD:203:PEB:HMA3	1.77	0.49
29:CD:202:PEB:HMD1	6:DD:150:VAL:CG1	2.38	0.49
6:DD:29:GLY:HA2	6:DD:32:GLN:HE22	1.77	0.49
29:DD:201:PEB:HHB1	29:DD:201:PEB:O2C	2.12	0.49
6:FD:115:GLU:HA	6:FD:118:ARG:NE	2.18	0.49
7:ID:74:TYR:HB3	7:ID:78:ARG:NH2	2.21	0.49
7:KD:35:ASN:HD21	29:KD:202:PEB:HMC2	1.78	0.49
6:LD:47:ASN:HB2	6:LD:50:ALA:HB3	1.93	0.49
7:MD:88:ILE:O	7:MD:91:ARG:HB2	2.13	0.49
7:JE:33:ASP:HB2	7:JE:36:LYS:HB2	1.94	0.49
4:EF:1:MET:HE2	4:EF:109:GLU:OE1	2.12	0.49
5:JF:11:GLN:NE2	27:3P:119:ALA:CB	2.75	0.49
5:JF:22:THR:OG1	27:3P:92:PRO:CB	2.60	0.49
6:QF:106:ASP:HA	6:QF:110:ILE:HB	1.93	0.49
6:SF:106:ASP:HA	6:SF:110:ILE:HB	1.93	0.49
7:DG:75:THR:HB	7:DG:78:ARG:HE	1.78	0.49
7:FG:64:PRO:C	7:FG:66:LEU:N	2.70	0.49
7:FG:170:ASP:N	7:FG:170:ASP:OD1	2.44	0.49
7:LG:51:MET:HB3	7:LG:134:MET:HE1	1.94	0.49
14:MG:167:ARG:HD3	14:MG:170:GLN:HE21	1.77	0.49
5:JI:107:ASP:OD1	27:aP:124:TRP:HZ2	1.95	0.49
6:fi:106:ASP:HA	6:fi:110:ILE:HB	1.93	0.49
6:fi:158:TYR:OH	6:hi:17:ARG:NH2	2.46	0.49
6:EJ:48:HIS:HA	6:EJ:51:VAL:HG22	1.94	0.49
6:IJ:48:HIS:HA	6:IJ:51:VAL:HG22	1.94	0.49
7:LJ:110:LEU:HD22	7:LJ:175:ALA:HB3	1.95	0.49
6:kj:18:PHE:HB3	7:lj:45:VAL:HG13	1.94	0.49
6:mJ:104:PRO:HB3	7:nJ:9:VAL:HG11	1.93	0.49
7:nJ:88:ILE:HG12	16:xJ:203:VAL:O	2.11	0.49
4:MK:8:ALA:HB1	4:MK:23:GLU:HB3	1.94	0.49
6:UK:52:VAL:HG21	6:UK:87:ASP:HA	1.95	0.49
7:FL:35:ASN:ND2	29:FL:202:PEB:CGC	2.66	0.49
7:JL:110:LEU:HD22	7:JL:175:ALA:HB3	1.95	0.49
6:kL:18:PHE:HB3	7:il:45:VAL:HG13	1.94	0.49
6:mL:38:LEU:HD22	7:nL:24:LEU:HD22	1.94	0.49
7:rL:33:ASP:OD1	7:rL:36:LYS:HE3	2.11	0.49
6:sL:33:ARG:NH2	6:uL:24:LEU:O	2.43	0.49
7:vL:110:LEU:HD22	7:vL:175:ALA:HB3	1.95	0.49
16:wL:164:SER:HB3	16:xL:36:GLN:OE1	2.12	0.49
17:yL:89:PHE:HB3	17:yL:172:LEU:HD13	1.94	0.49
6:jM:53:LYS:NZ	6:jM:53:LYS:CB	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FN:41:VAL:HG12	7:FN:97:LEU:HD23	1.94	0.49
6:IN:5:ILE:HA	6:IN:8:VAL:HG22	1.93	0.49
6:EO:102:THR:O	6:EO:102:THR:OG1	2.29	0.49
7:JO:143:THR:OG1	7:JO:145:THR:OG1	2.31	0.49
20:AP:91:LEU:HD13	20:AP:107:ILE:O	2.13	0.49
20:EP:18:LEU:HG	20:EP:22:GLU:OE1	2.12	0.49
20:GP:91:LEU:HD13	20:GP:107:ILE:O	2.13	0.49
20:KP:91:LEU:HD13	20:KP:107:ILE:O	2.13	0.49
21:LP:2:GLN:HB2	21:LP:6:THR:HB	1.95	0.49
21:MP:6:THR:HG23	24:XP:129:VAL:HG13	1.95	0.49
21:SP:2:GLN:HB2	21:SP:6:THR:HB	1.95	0.49
25:YP:39:GLU:HA	25:YP:42:GLN:CB	2.42	0.49
20:eP:18:LEU:HG	20:eP:22:GLU:OE1	2.12	0.49
20:eP:91:LEU:HD13	20:eP:107:ILE:O	2.13	0.49
21:hP:128:GLN:CD	23:yP:73:ALA:HA	2.37	0.49
21:uP:2:GLN:HB2	21:uP:6:THR:HB	1.94	0.49
28:4P:237:PRO:O	28:4P:241:LEU:HG	2.12	0.49
7:FQ:37:ARG:NH1	7:FQ:97:LEU:O	2.46	0.49
7:FQ:51:MET:N	29:FQ:203:PEB:HAA2	2.26	0.49
7:FQ:51:MET:HB3	7:FQ:134:MET:HE1	1.95	0.49
7:FQ:75:THR:HB	7:FQ:78:ARG:HE	1.78	0.49
6:IQ:82:CYS:HA	29:IQ:201:PEB:HHA1	1.94	0.49
6:KQ:115:GLU:OE1	6:KQ:115:GLU:N	2.46	0.49
7:LQ:115:GLU:OE2	14:MQ:232:LYS:HD3	2.12	0.49
8:eR:252:ALA:HB3	7:XR:119:ALA:CB	2.40	0.49
6:QR:24:LEU:CD2	7:RR:41:VAL:HG21	2.41	0.49
6:SR:105:LEU:HG	6:SR:110:ILE:HG13	1.93	0.49
7:TR:59:MET:SD	7:TR:130:ALA:HB2	2.52	0.49
6:UR:105:LEU:HG	6:UR:110:ILE:HG13	1.94	0.49
7:VR:61:CYS:HB3	29:VR:203:PEB:CBD	2.31	0.49
3:B1:224:MET:HG2	3:B1:228:MET:CE	2.41	0.49
5:H1:35:ASN:O	29:H1:1002:PEB:H1D1	2.12	0.49
5:H1:35:ASN:ND2	29:H1:1002:PEB:C4C	2.69	0.49
5:N1:17:GLU:O	5:N1:18:PHE:O	2.30	0.49
6:Q1:106:ASP:HA	6:Q1:110:ILE:HB	1.95	0.49
6:d1:52:VAL:HG21	6:d1:87:ASP:HA	1.95	0.49
8:e2:279:ILE:HD12	6:W7:135:ARG:NH2	2.27	0.49
6:Q2:24:LEU:CD2	7:R2:41:VAL:HG21	2.41	0.49
6:Q2:145:SER:C	6:Q2:147:GLN:N	2.70	0.49
6:S2:138:LEU:HD12	6:S2:143:ASP:OD2	2.13	0.49
6:U2:105:LEU:HG	6:U2:110:ILE:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K3:1:MET:SD	6:K3:1:MET:N	2.80	0.49
10:d4:276:PRO:HB2	6:WF:67:LYS:O	2.11	0.49
6:F4:16:GLY:CA	7:G4:91:ARG:HH12	2.24	0.49
7:I4:102:ALA:HB2	7:I4:105:LEU:HD11	1.94	0.49
7:M4:41:VAL:HG21	7:M4:98:LEU:HD12	1.95	0.49
7:M4:123:PRO:HA	6:UF:69:PRO:CD	2.43	0.49
7:B5:101:ASP:OD2	7:B5:103:SER:OG	2.30	0.49
7:H5:101:ASP:OD2	7:H5:103:SER:OG	2.30	0.49
7:I5:79:MET:HB3	15:bB:229:LEU:CD2	2.42	0.49
5:F7:32:LYS:C	5:F7:32:LYS:CD	2.86	0.49
7:k7:42:ASN:O	7:k7:46:SER:OG	2.30	0.49
6:O9:37:ARG:NH1	6:O9:98:VAL:O	2.43	0.49
7:T9:42:ASN:O	7:T9:46:SER:OG	2.30	0.49
7:DA:41:VAL:HG12	7:DA:97:LEU:HD23	1.94	0.49
7:DA:84:ARG:HG2	14:MA:150:SER:OG	2.11	0.49
6:EA:5:ILE:HA	6:EA:8:VAL:HG22	1.93	0.49
6:KA:37:ARG:NE	6:KA:97:LEU:O	2.46	0.49
7:LA:135:LYS:HE2	7:LA:169:PHE:HB3	1.94	0.49
14:MA:306:ASN:ND2	14:MA:312:GLU:O	2.45	0.49
15:bB:311:GLN:OE1	28:bP:40:ARG:CG	2.61	0.49
7:TB:106:GLU:OE2	7:TB:171:ARG:NH1	2.45	0.49
6:WB:54:GLU:CD	29:WB:202:PEB:HAC1	2.36	0.49
6:AC:77:GLU:OE2	6:AC:78:LYS:NZ	2.45	0.49
6:EC:17:ARG:NH1	6:GC:106:ASP:OD2	2.45	0.49
7:FC:7:ARG:NH2	7:FC:103:SER:OG	2.45	0.49
7:LC:7:ARG:NH2	7:LC:103:SER:OG	2.45	0.49
18:MC:45:PHE:CZ	18:MC:254:ALA:N	2.80	0.49
18:MC:242:LYS:N	29:SF:202:PEB:O1B	2.45	0.49
10:dD:87:TYR:OH	29:ID:201:PEB:ND	2.46	0.49
10:dD:129:GLU:HA	10:dD:129:GLU:OE1	2.11	0.49
7:CD:9:VAL:O	7:CD:12:SER:OG	2.19	0.49
6:DD:84:ARG:HG2	6:DD:85:ASP:N	2.26	0.49
7:GD:72:MEN:C	7:GD:78:ARG:HG2	2.42	0.49
7:GD:90:LEU:HD13	7:GD:134:MET:SD	2.53	0.49
6:HD:34:SER:CA	6:HD:37:ARG:HH21	2.25	0.49
7:ID:84:ARG:HA	7:ID:87:GLU:OE2	2.12	0.49
6:JD:29:GLY:HA2	6:JD:32:GLN:HE22	1.77	0.49
6:LD:34:SER:CB	6:LD:37:ARG:HH21	2.25	0.49
29:LD:201:PEB:O2C	29:LD:201:PEB:HHB1	2.12	0.49
7:MD:35:ASN:HD21	29:MD:202:PEB:HMC2	1.78	0.49
6:AE:136:ASP:OD1	6:AE:136:ASP:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BE:33:ASP:HB2	7:BE:36:LYS:HB2	1.94	0.49
6:EE:130:SER:O	6:EE:134:THR:OG1	2.31	0.49
5:FF:169:VAL:HG12	5:FF:169:VAL:O	2.12	0.49
4:GF:6:THR:HG22	5:HF:1:MET:HG3	1.93	0.49
5:HF:75:THR:OG1	5:HF:78:ARG:HB2	2.12	0.49
4:MF:117:GLU:OE1	4:MF:120:ARG:NH2	2.46	0.49
6:QF:108:TRP:CD1	7:VF:75:THR:HG21	2.47	0.49
6:UF:106:ASP:HA	6:UF:110:ILE:HB	1.93	0.49
7:cF:148:GLU:OE1	7:cF:148:GLU:N	2.43	0.49
7:BG:141:PHE:CZ	29:BG:203:PEB:CMA	2.95	0.49
7:DG:136:ALA:HB3	29:DG:203:PEB:CGC	2.41	0.49
6:EG:28:GLN:HA	6:EG:31:ILE:HB	1.94	0.49
6:IG:144:MET:HG3	6:IG:148:ALA:HB3	1.94	0.49
14:MG:303:ASP:OD1	14:MG:303:ASP:N	2.44	0.49
7:FJ:115:GLU:OE2	17:yJ:75:LYS:CG	2.61	0.49
6:IJ:142:ARG:NH1	29:IJ:202:PEB:NB	2.61	0.49
6:MJ:142:ARG:NH1	29:MJ:202:PEB:NB	2.61	0.49
7:VJ:110:LEU:HD22	7:VJ:175:ALA:HB3	1.94	0.49
6:cJ:142:ARG:NH1	29:cJ:202:PEB:NB	2.61	0.49
6:mJ:48:HIS:HA	6:mJ:51:VAL:HG22	1.94	0.49
6:sJ:48:HIS:HA	6:sJ:51:VAL:HG22	1.94	0.49
7:tJ:110:LEU:HD22	7:tJ:175:ALA:HB3	1.95	0.49
6:uJ:48:HIS:HA	6:uJ:51:VAL:HG22	1.94	0.49
1:XK:332:ASN:HA	4:EK:15:GLN:HA	1.94	0.49
5:JK:145:THR:O	5:JK:148:THR:HG22	2.12	0.49
6:OK:9:VAL:HG11	7:PK:1:MET:HE1	1.94	0.49
6:SK:18:PHE:CE2	7:TK:91:ARG:HA	2.47	0.49
7:VK:97:LEU:CD1	7:VK:165:VAL:HG23	2.40	0.49
6:fK:49:GLU:O	6:fK:53:LYS:HD2	2.12	0.49
6:EL:142:ARG:NH1	29:EL:202:PEB:NB	2.61	0.49
6:GL:122:LEU:CD2	29:GL:201:PEB:HNA	2.24	0.49
7:HL:77:ARG:HH22	29:zL:501:PEB:CGB	2.26	0.49
7:RL:110:LEU:HD23	7:RL:113:LEU:HD23	1.95	0.49
7:bL:110:LEU:HD22	7:bL:175:ALA:HB3	1.95	0.49
6:kL:142:ARG:NH1	29:kL:202:PEB:NB	2.61	0.49
6:qL:94:ASN:ND2	7:rL:18:TYR:HB3	2.28	0.49
16:wL:39:LEU:CD2	17:yL:200:PHE:CD1	2.95	0.49
16:AM:93:GLY:HA3	6:hM:114:ARG:HH21	1.78	0.49
7:NM:106:GLU:OE2	28:4P:176:LEU:HD12	2.13	0.49
7:VM:106:GLU:OE2	7:VM:171:ARG:NH1	2.45	0.49
7:gM:76:ASN:HD22	6:jM:109:GLY:HA2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jM:54:GLU:CG	29:jM:202:PEB:HAC1	2.41	0.49
7:DN:135:LYS:HE2	7:DN:169:PHE:HB3	1.94	0.49
6:GN:5:ILE:HA	6:GN:8:VAL:HG22	1.93	0.49
14:MN:229:PRO:HG3	14:MN:235:GLU:HB3	1.94	0.49
14:MN:295:PHE:CB	14:MN:299:ARG:HH21	2.25	0.49
7:DO:75:THR:OG1	7:DO:76:ASN:N	2.41	0.49
7:FO:42:ASN:O	7:FO:46:SER:OG	2.26	0.49
21:FP:2:GLN:HB2	21:FP:6:THR:HB	1.95	0.49
20:GP:18:LEU:HG	20:GP:22:GLU:OE1	2.12	0.49
20:JP:18:LEU:HG	20:JP:22:GLU:OE1	2.12	0.49
20:NP:18:LEU:HG	20:NP:22:GLU:OE1	2.12	0.49
20:RP:18:LEU:HG	20:RP:22:GLU:OE1	2.12	0.49
23:WP:12:TYR:OH	23:WP:20:ASP:OD1	2.20	0.49
21:dP:110:ASN:O	25:1P:479:LEU:HG	2.13	0.49
20:iP:91:LEU:HD13	20:iP:107:ILE:O	2.13	0.49
20:mP:8:ILE:HG22	21:qP:1:MET:HE1	1.93	0.49
20:rP:18:LEU:HG	20:rP:22:GLU:OE1	2.12	0.49
25:1P:39:GLU:HA	25:1P:42:GLN:CB	2.42	0.49
25:1P:51:ASN:O	25:1P:55:GLU:HG2	2.12	0.49
6:AQ:28:GLN:HA	6:AQ:31:ILE:HB	1.94	0.49
7:DQ:153:PHE:HB2	29:DQ:202:PEB:HMA3	1.93	0.49
6:EQ:28:GLN:HA	6:EQ:31:ILE:HB	1.94	0.49
7:FQ:141:PHE:CE1	29:FQ:203:PEB:HMA2	2.32	0.49
6:GQ:115:GLU:OE1	6:GQ:115:GLU:N	2.46	0.49
7:HQ:51:MET:HB3	7:HQ:134:MET:HE1	1.94	0.49
7:JQ:37:ARG:NH1	7:JQ:97:LEU:O	2.46	0.49
8:eR:129:ASP:OD1	8:eR:206:SER:OG	2.16	0.49
6:MR:81:LYS:NZ	29:MR:201:PEB:CGB	2.75	0.49
7:TR:106:GLU:O	7:TR:111:ASN:HB3	2.12	0.49
6:UR:37:ARG:HD3	6:UR:151:GLU:CD	2.28	0.49
3:B1:37:LEU:HD13	5:F1:111:ASN:HD22	1.78	0.49
5:D1:40:ILE:HG12	29:D1:1002:PEB:CBA	2.37	0.49
4:E1:40:ALA:CA	4:E1:146:VAL:HG13	2.42	0.49
4:E1:46:GLY:HA3	6:Q7:49:GLU:HG2	1.95	0.49
4:G1:2:LYS:H	4:G1:105:GLY:HA3	1.78	0.49
6:b1:52:VAL:HG21	6:b1:87:ASP:HA	1.94	0.49
6:h1:106:ASP:HA	6:h1:110:ILE:HB	1.95	0.49
6:M2:140:VAL:CG1	6:M2:146:ALA:CA	2.77	0.49
7:V2:84:ARG:C	7:V2:87:GLU:HG2	2.36	0.49
7:X2:44:ILE:HD11	7:X2:142:ILE:HD11	1.93	0.49
7:C4:30:PHE:HE1	7:C4:37:ARG:NH1	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:96:ALA:HB1	7:C4:102:ALA:HA	1.94	0.49
6:D4:114:ARG:HD3	6:F4:118:ARG:NH1	2.28	0.49
7:E4:129:ARG:NH2	7:E4:132:SER:OG	2.45	0.49
7:G4:90:LEU:HD13	7:G4:134:MET:SD	2.53	0.49
29:G4:202:PEB:OD	6:H4:33:ARG:NE	2.45	0.49
6:J4:34:SER:CB	6:J4:37:ARG:HH21	2.25	0.49
7:A5:76:ASN:ND2	7:C5:119:ALA:HB1	2.28	0.49
12:E5:173:PHE:CZ	6:ZI:83:TYR:CD2	2.98	0.49
13:k6:21:GLY:HA3	29:YB:203:PEB:O1C	2.13	0.49
1:X7:325:LYS:O	5:D7:84:ARG:NH1	2.44	0.49
4:I7:77:SER:OG	4:I7:78:ALA:N	2.44	0.49
6:d7:84:ARG:HH12	7:i7:67:ILE:HD12	1.77	0.49
7:m7:39:ASP:OD1	7:m7:153:PHE:CD1	2.65	0.49
7:G8:101:ASP:OD2	7:G8:103:SER:OG	2.30	0.49
7:K8:142:ILE:HG21	7:K8:162:ALA:CA	2.43	0.49
7:L8:114:LYS:HB2	7:L8:176:ILE:HA	1.93	0.49
5:J9:78:ARG:HG2	31:J9:1001:CYC:HAD2	1.93	0.49
7:V9:169:PHE:O	7:V9:172:VAL:HG12	2.12	0.49
6:l9:13:ASP:OD1	7:m9:92:TYR:OH	2.26	0.49
6:IA:149:GLY:O	6:IA:153:SER:OG	2.26	0.49
7:LA:35:ASN:OD1	29:LA:202:PEB:ND	2.46	0.49
14:MA:223:CYS:O	14:MA:324:SER:OG	2.31	0.49
6:YB:55:ALA:HB1	6:YB:130:SER:HB2	1.95	0.49
6:dB:135:ARG:HD2	6:dB:157:ASP:CG	2.38	0.49
7:gB:31:ILE:O	7:gB:31:ILE:HG22	2.12	0.49
7:HC:7:ARG:NH2	7:HC:103:SER:OG	2.45	0.49
6:FD:106:ASP:OD2	6:HD:17:ARG:NH1	2.46	0.49
7:GD:39:ASP:OD2	7:GD:153:PHE:CB	2.60	0.49
7:GD:41:VAL:HG21	7:GD:98:LEU:HD12	1.95	0.49
6:JD:82:CYS:HA	29:JD:201:PEB:HHA1	1.93	0.49
6:KE:77:GLU:OE2	6:KE:78:LYS:NZ	2.45	0.49
6:KE:130:SER:O	6:KE:134:THR:OG1	2.30	0.49
3:BF:220:LEU:HD23	27:3P:79:ALA:O	2.12	0.49
5:JF:62:GLU:HB2	20:rP:75:GLU:HG3	1.93	0.49
6:bF:106:ASP:HA	6:bF:110:ILE:HB	1.93	0.49
6:AG:33:ARG:O	6:AG:37:ARG:N	2.34	0.49
7:BG:51:MET:HB3	7:BG:134:MET:HE1	1.95	0.49
6:KG:4:VAL:O	6:KG:7:THR:OG1	2.30	0.49
6:KG:14:ALA:HB1	30:MG:402:PUB:HMA1	1.94	0.49
7:LG:140:ALA:HB3	29:LG:203:PEB:HMB2	1.93	0.49
4:CI:116:GLU:OE2	4:KI:120:ARG:HD2	1.97	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JI:75:THR:OG1	5:JI:78:ARG:HB2	2.13	0.49
7:LJ:7:ARG:HD2	28:4P:225:ARG:HD2	1.94	0.49
7:LJ:26:ALA:HB2	28:4P:232:ALA:HB2	1.95	0.49
6:MJ:48:HIS:HA	6:MJ:51:VAL:HG22	1.94	0.49
6:iJ:48:HIS:HA	6:iJ:51:VAL:HG22	1.94	0.49
7:vJ:125:ASN:OD1	7:vJ:125:ASN:N	2.41	0.49
5:JK:20:SER:N	5:JK:23:GLN:NE2	2.45	0.49
4:MK:105:GLY:O	4:MK:109:GLU:HG2	2.13	0.49
7:FL:113:LEU:HD11	29:FL:201:PEB:CMD	2.43	0.49
6:KL:142:ARG:NH1	29:KL:202:PEB:NB	2.61	0.49
7:VL:110:LEU:HD22	7:VL:175:ALA:HB3	1.94	0.49
7:tL:110:LEU:HD22	7:tL:175:ALA:HB3	1.95	0.49
7:LM:71:GLY:N	7:RM:125:ASN:HD21	2.09	0.49
7:PM:106:GLU:OE2	7:PM:171:ARG:NH1	2.45	0.49
7:BN:35:ASN:OD1	29:BN:202:PEB:ND	2.46	0.49
7:DN:8:VAL:HG21	7:DN:27:LEU:HD11	1.94	0.49
7:HN:167:SER:O	7:HN:171:ARG:NH1	2.46	0.49
6:KN:37:ARG:NE	6:KN:97:LEU:O	2.46	0.49
7:DO:65:GLY:O	7:DO:68:SER:OG	2.30	0.49
7:HO:65:GLY:O	7:HO:68:SER:OG	2.30	0.49
7:JO:84:ARG:HH22	9:OO:64:SER:H	1.59	0.49
20:CP:18:LEU:HG	20:CP:22:GLU:OE1	2.12	0.49
20:TP:91:LEU:HD13	20:TP:107:ILE:O	2.13	0.49
20:cP:91:LEU:HD13	20:cP:107:ILE:O	2.13	0.49
21:dP:94:TYR:OH	20:eP:16:ARG:O	2.27	0.49
21:oP:44:ILE:HD13	21:oP:149:MET:HE2	1.95	0.49
21:oP:60:LEU:HD13	21:oP:60:LEU:O	2.12	0.49
20:pP:91:LEU:HD13	20:pP:107:ILE:O	2.13	0.49
25:1P:843:PRO:HB3	26:2P:172:CYS:SG	2.52	0.49
29:FQ:202:PEB:CAD	6:GQ:33:ARG:HD2	2.41	0.49
7:LQ:37:ARG:NH1	7:LQ:97:LEU:O	2.46	0.49
7:LQ:170:ASP:N	7:LQ:170:ASP:OD1	2.44	0.49
14:MQ:96:LYS:C	14:MQ:96:LYS:CD	2.86	0.49
6:WR:24:LEU:HA	6:WR:27:ILE:HD12	1.95	0.49
2:A1:210:GLY:HA2	6:l1:15:ALA:HB2	1.93	0.49
3:B1:204:ARG:CD	3:B1:204:ARG:N	2.73	0.49
3:B1:225:VAL:O	3:B1:228:MET:N	2.45	0.49
4:G1:21:ASN:ND2	4:I1:152:ALA:CB	2.71	0.49
4:M1:93:ARG:NH1	5:N1:16:GLY:O	2.46	0.49
7:V1:129:ARG:NH1	7:V1:132[A]:SER:OG	2.44	0.49
8:e2:293:THR:HG23	7:T2:135:LYS:NZ	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M2:24:LEU:HA	6:M2:27:ILE:HD12	1.95	0.49
6:M2:138:LEU:HD11	6:M2:144:MET:HE3	1.95	0.49
6:O2:69:PRO:HG3	13:k6:232:PHE:HB2	1.95	0.49
6:O2:138:LEU:CB	29:O2:202:PEB:CMD	2.84	0.49
6:Q2:118:ARG:HG2	6:Q2:119:THR:N	2.28	0.49
6:Q2:139:CYS:SG	29:Q2:202:PEB:H3A1	2.51	0.49
6:S2:24:LEU:HA	6:S2:27:ILE:HD12	1.95	0.49
6:U2:24:LEU:HA	6:U2:27:ILE:HD12	1.95	0.49
6:U2:137:ARG:CG	29:U2:202:PEB:CHC	2.64	0.49
7:X2:59:MET:SD	7:X2:130:ALA:HB2	2.52	0.49
6:A3:142:ARG:HE	29:A3:202:PEB:HNA	1.60	0.49
10:d4:289:LEU:HD21	10:d4:297:MET:HE3	1.95	0.49
6:B4:84:ARG:HG2	6:B4:85:ASP:N	2.26	0.49
7:C4:90:LEU:HD13	7:C4:134:MET:SD	2.53	0.49
6:D4:59:CYS:HB3	6:D4:130:SER:HB3	1.94	0.49
6:D4:82:CYS:HA	29:D4:201:PEB:HHA1	1.93	0.49
7:E4:75:THR:HA	29:L4:201:PEB:HBD2	1.95	0.49
7:E4:90:LEU:HD13	7:E4:134:MET:SD	2.53	0.49
6:F4:115:GLU:HA	6:F4:118:ARG:NE	2.18	0.49
29:F4:201:PEB:O2C	29:F4:201:PEB:HBB1	2.12	0.49
7:I4:84:ARG:HA	7:I4:87:GLU:OE2	2.12	0.49
7:K4:90:LEU:HD13	7:K4:134:MET:SD	2.53	0.49
7:e7:42:ASN:O	7:e7:46:SER:OG	2.30	0.49
6:j7:37:ARG:NH1	6:j7:98:VAL:O	2.43	0.49
7:V9:42:ASN:O	7:V9:46:SER:OG	2.30	0.49
6:b9:149:GLY:O	6:b9:153:SER:OG	2.29	0.49
7:DB:85:ASP:OD1	29:DB:201:PEB:C1D	2.60	0.49
7:HB:159:THR:O	7:HB:163[B]:SER:OG	2.26	0.49
6:CC:130:SER:O	6:CC:134:THR:OG1	2.30	0.49
6:DD:114:ARG:HD3	6:FD:118:ARG:NH1	2.28	0.49
6:FD:43:LYS:HZ2	6:FD:43:LYS:CB	2.26	0.49
6:FD:59:CYS:HB3	6:FD:130:SER:HB3	1.94	0.49
7:ID:35:ASN:HD21	29:ID:202:PEB:HMC2	1.78	0.49
6:JD:81:LYS:HD2	6:JD:81:LYS:O	2.13	0.49
7:BE:7:ARG:NH2	7:BE:103:SER:OG	2.45	0.49
6:GE:130:SER:O	6:GE:134:THR:OG1	2.30	0.49
7:JE:51:MET:HE3	7:JE:137:GLN:CB	2.37	0.49
18:ME:312:LEU:CD1	18:ME:313:THR:CG2	2.86	0.49
3:BF:204:ARG:HH22	21:uP:57:ALA:CB	2.26	0.49
7:PF:3:ASP:N	7:PF:3:ASP:OD1	2.46	0.49
6:ZF:106:ASP:HA	6:ZF:110:ILE:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:dF:106:ASP:HA	6:dF:110:ILE:HB	1.93	0.49
6:AG:22:SER:HA	6:CG:101:GLY:HA2	1.95	0.49
7:DG:125:ASN:OD1	7:DG:125:ASN:N	2.46	0.49
7:FG:59:MET:O	7:FG:62:GLU:CG	2.51	0.49
7:HG:37:ARG:NH1	7:HG:97:LEU:O	2.46	0.49
7:HG:75:THR:HB	7:HG:78:ARG:HE	1.78	0.49
7:HG:170:ASP:OD1	7:HG:170:ASP:N	2.44	0.49
6:KG:24:LEU:HB3	7:LG:38:LEU:HD22	1.94	0.49
14:MG:96:LYS:C	14:MG:96:LYS:CD	2.86	0.49
3:BI:224:MET:HG3	5:JI:152:ASP:CA	2.42	0.49
7:aI:40:ALA:HB1	7:aI:142:ILE:HD12	1.93	0.49
6:dI:106:ASP:HA	6:dI:110:ILE:HB	1.93	0.49
7:BJ:118:ILE:CG2	7:TJ:118:ILE:O	2.61	0.49
6:MJ:33:ARG:CZ	6:MJ:147:GLN:HE21	2.23	0.49
7:PJ:110:LEU:HD22	7:PJ:175:ALA:HB3	1.95	0.49
7:RJ:110:LEU:HD23	7:RJ:113:LEU:HD23	1.95	0.49
7:fJ:16:ALA:HB2	7:jJ:69:PRO:HG2	1.94	0.49
6:mJ:11:ALA:HB2	16:xJ:195:TYR:HE2	1.78	0.49
7:vJ:110:LEU:HD22	7:vJ:175:ALA:HB3	1.95	0.49
2:AK:219:GLY:HA2	2:AK:224:GLN:HE21	1.78	0.49
5:JK:11:GLN:CB	15:bM:333:ARG:NH2	2.65	0.49
6:QK:52:VAL:CG1	6:QK:86:VAL:HG12	2.34	0.49
6:jK:52:VAL:HG21	6:jK:87:ASP:HA	1.95	0.49
6:CL:48:HIS:HA	6:CL:51:VAL:HG22	1.94	0.49
6:CL:72:ALA:O	29:CL:201:PEB:OA	2.31	0.49
6:EL:48:HIS:HA	6:EL:51:VAL:HG22	1.94	0.49
6:ML:142:ARG:NH1	29:ML:202:PEB:NB	2.61	0.49
6:OL:48:HIS:HA	6:OL:51:VAL:HG22	1.94	0.49
6:QL:142:ARG:NH1	29:QL:202:PEB:NB	2.61	0.49
6:UL:71:GLU:N	6:UL:74:GLU:CG	2.76	0.49
6:WL:142:ARG:NH1	29:WL:203:PEB:NB	2.61	0.49
6:YL:48:HIS:HA	6:YL:51:VAL:HG22	1.94	0.49
6:aL:142:ARG:NH1	29:aL:202:PEB:NB	2.61	0.49
6:mL:17:ARG:HD2	30:xL:304:PUB:O2C	2.12	0.49
16:xL:139:GLU:O	16:xL:143:THR:OG1	2.23	0.49
19:zL:224:LEU:HD11	19:zL:243:SER:HB2	1.95	0.49
6:GM:55:ALA:HB1	6:GM:130:SER:HB2	1.95	0.49
6:UM:67:LYS:CD	14:MQ:97:PHE:CE1	2.96	0.49
6:WM:55:ALA:HB1	6:WM:130:SER:HB2	1.95	0.49
7:kM:106:GLU:OE2	7:kM:171:ARG:NH1	2.45	0.49
7:BN:135:LYS:HE2	7:BN:169:PHE:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DN:167:SER:O	7:DN:171:ARG:NH1	2.46	0.49
6:IN:2:LYS:NZ	14:MN:253:GLY:HA3	2.28	0.49
6:IN:24:LEU:HB3	7:JN:38:LEU:HD22	1.95	0.49
14:MN:96:LYS:N	14:MN:96:LYS:CD	2.73	0.49
7:JO:65:GLY:O	7:JO:68:SER:OG	2.30	0.49
6:KO:97:LEU:HD11	6:KO:152:PHE:HD1	1.78	0.49
7:NO:92:TYR:CD2	7:NO:109:CYS:SG	3.05	0.49
21:FP:44:ILE:HD13	21:FP:149:MET:HE2	1.95	0.49
21:BP:2:GLN:HB2	21:BP:6:THR:HB	1.95	0.49
21:SP:44:ILE:HD13	21:SP:149:MET:HE2	1.95	0.49
21:SP:87:TYR:OH	25:YP:811:ALA:HA	2.13	0.49
20:gP:13:ALA:HB3	25:1P:507:LYS:CD	2.31	0.49
20:rP:32:SER:HB2	26:2P:120:PHE:CB	2.42	0.49
22:xP:101:LYS:HD2	22:xP:155:TYR:CE1	2.47	0.49
24:zP:57:ILE:HG23	24:zP:102:TYR:HD2	1.77	0.49
27:3P:176:ALA:O	27:3P:180:THR:HG23	2.12	0.49
6:AQ:22:SER:HB3	6:CQ:101:GLY:HA2	1.94	0.49
7:DQ:61:CYS:SG	29:DQ:203:PEB:HBD2	2.46	0.49
7:DQ:75:THR:HB	7:DQ:78:ARG:HE	1.78	0.49
7:JQ:170:ASP:N	7:JQ:170:ASP:OD1	2.44	0.49
7:LQ:51:MET:HB3	7:LQ:134:MET:HE1	1.94	0.49
7:LQ:57:SER:CA	7:LQ:60:ILE:HG22	2.43	0.49
7:LQ:125:ASN:N	7:LQ:125:ASN:OD1	2.46	0.49
6:OR:131:ILE:CG2	6:OR:160:ILE:HD11	2.29	0.49
6:SR:16:GLY:HA2	7:TR:91:ARG:NH1	2.27	0.49
6:SR:24:LEU:HA	6:SR:27:ILE:HD12	1.95	0.49
7:VR:56:VAL:HG21	7:VR:83:LEU:HD23	1.94	0.49
3:B1:202:PRO:HB3	5:L1:65:GLN:NE2	2.20	0.49
4:C1:8:ALA:HB1	4:C1:23:GLU:HB3	1.94	0.49
4:M1:8:ALA:HB1	4:M1:23:GLU:HB3	1.94	0.49
6:O1:106:ASP:HA	6:O1:110:ILE:HB	1.95	0.49
6:d1:33:ARG:NE	6:d1:33:ARG:CA	2.73	0.49
8:e2:125:ARG:N	29:V2:201:PEB:O1C	2.44	0.49
6:C3:142:ARG:HE	29:C3:202:PEB:HNA	1.60	0.49
6:G3:97:LEU:HD11	6:G3:152:PHE:HD1	1.78	0.49
7:N3:123:PRO:HD3	7:VL:156:GLY:HA2	1.95	0.49
7:E4:51:MET:CE	7:E4:141:PHE:HE2	2.22	0.49
7:E4:71:GLY:C	7:E4:73:CYS:H	2.21	0.49
6:H4:142:ARG:CG	6:H4:143:ASP:N	2.75	0.49
6:J4:59:CYS:HB3	6:J4:130:SER:HB3	1.94	0.49
6:L4:81:LYS:HD2	6:L4:81:LYS:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:L4:201:PEB:O2C	29:L4:201:PEB:HBB1	2.12	0.49
7:K5:23:ASP:OD1	7:K5:23:ASP:N	2.37	0.49
13:k6:139:LEU:HD11	32:k6:301:PMS:O2S	2.13	0.49
3:B7:42:GLU:N	3:B7:42:GLU:OE2	2.46	0.49
5:F7:18:PHE:HD1	5:F7:18:PHE:H	1.58	0.49
7:I8:54:ASP:OD2	7:I8:137:GLN:NE2	2.46	0.49
3:B9:42:GLU:N	3:B9:42:GLU:OE2	2.46	0.49
6:CA:34:SER:HB2	6:CA:38:LEU:HD22	1.93	0.49
7:DA:135:LYS:HE2	7:DA:169:PHE:HB3	1.94	0.49
7:FA:8:VAL:HG21	7:FA:27:LEU:HD11	1.94	0.49
6:CB:6:THR:HG23	7:DB:1:MET:HE2	1.94	0.49
7:LB:106:GLU:OE2	7:LB:171:ARG:NH1	2.45	0.49
6:UB:135:ARG:HD2	6:UB:157:ASP:CG	2.38	0.49
7:FC:33:ASP:HB2	7:FC:36:LYS:HB2	1.94	0.49
6:IC:77:GLU:OE2	6:IC:78:LYS:NZ	2.45	0.49
10:dD:183:ARG:HH21	10:dD:193:GLN:HB2	1.78	0.49
6:JD:47:ASN:HB2	6:JD:50:ALA:HB3	1.93	0.49
6:LD:137:ARG:HH22	29:LD:202:PEB:HNA	1.60	0.49
3:BF:222:LEU:HD12	3:BF:225:VAL:CG1	2.42	0.49
5:Nf:39:ASP:HA	29:Nf:1002:PEB:HMD1	1.95	0.49
6:AG:38:LEU:HD21	6:AG:98:VAL:N	2.23	0.49
6:EG:115:GLU:N	6:EG:115:GLU:OE1	2.46	0.49
7:FG:46:SER:OG	7:FG:47:ASN:N	2.44	0.49
7:FG:82:CYS:HA	29:FG:201:PEB:HHA1	1.95	0.49
13:kH:139:LEU:HD11	32:kH:301:PMS:O2S	2.13	0.49
1:XI:157:ASP:HB2	1:XI:247:LYS:HE3	1.93	0.49
29:DI:1002:PEB:HHC2	4:MI:145:GLN:HE22	1.78	0.49
6:SI:30:ASN:O	6:SI:34:SER:OG	2.30	0.49
6:II:52:VAL:HG13	6:II:86:VAL:HG12	1.95	0.49
7:HJ:25:GLN:O	7:HJ:27:LEU:N	2.45	0.49
7:NJ:110:LEU:HD22	7:NJ:175:ALA:HB3	1.94	0.49
6:QJ:85:ASP:OD2	6:QJ:127:TYR:OH	2.30	0.49
6:WJ:66:LEU:HD23	6:WJ:71:GLU:HG3	1.94	0.49
7:XJ:110:LEU:HD22	7:XJ:175:ALA:HB3	1.95	0.49
6:eJ:142:ARG:NH1	29:eJ:202:PEB:NB	2.61	0.49
2:AK:210:GLY:HA2	6:IK:15:ALA:HB2	1.93	0.49
6:SK:106:ASP:HA	6:SK:110:ILE:HB	1.95	0.49
6:fK:52:VAL:HG21	6:fK:87:ASP:HA	1.95	0.49
6:fK:52:VAL:CG1	6:fK:86:VAL:HG12	2.34	0.49
7:BL:118:ILE:CG2	7:TL:118:ILE:O	2.61	0.49
7:XL:110:LEU:HD22	7:XL:175:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YL:142:ARG:NH1	29:YL:202:PEB:NB	2.61	0.49
6:gL:142:ARG:NH1	29:gL:202:PEB:NB	2.61	0.49
19:zL:212:PHE:HA	19:zL:216:TYR:CZ	2.47	0.49
6:CM:135:ARG:HD2	6:CM:157:ASP:CG	2.38	0.49
6:KM:55:ALA:HB1	6:KM:130:SER:HB2	1.95	0.49
7:kM:52:VAL:HG12	7:kM:83:LEU:HD22	1.94	0.49
6:EN:5:ILE:HA	6:EN:8:VAL:HG22	1.93	0.49
7:LN:35:ASN:OD1	29:LN:202:PEB:ND	2.46	0.49
6:IO:151:GLU:HB2	6:KO:21:ASN:HD21	1.77	0.49
20:AP:18:LEU:HG	20:AP:22:GLU:OE1	2.12	0.49
20:JP:91:LEU:HD13	20:JP:107:ILE:O	2.13	0.49
20:PP:18:LEU:HG	20:PP:22:GLU:OE1	2.12	0.49
27:aP:270:ARG:HD2	27:aP:270:ARG:O	2.12	0.49
21:dP:44:ILE:HD13	21:dP:149:MET:HE2	1.95	0.49
20:gP:91:LEU:HD13	20:gP:107:ILE:O	2.13	0.49
21:kP:2:GLN:HB2	21:kP:6:THR:HB	1.94	0.49
20:lP:151:PHE:HB3	20:pP:20:PRO:HB3	1.94	0.49
20:mP:90:ARG:CZ	21:qP:16:GLY:HA2	2.43	0.49
21:nP:2:GLN:HB2	21:nP:6:THR:HB	1.95	0.49
20:pP:18:LEU:HG	20:pP:22:GLU:OE1	2.12	0.49
20:rP:64:ASP:OD1	20:rP:64:ASP:N	2.42	0.49
21:wP:2:GLN:HB2	21:wP:6:THR:HB	1.95	0.49
25:1P:483:ARG:CG	25:1P:506:PRO:HD3	2.43	0.49
6:CQ:115:GLU:N	6:CQ:115:GLU:OE1	2.46	0.49
7:DQ:37:ARG:NH1	7:DQ:97:LEU:O	2.46	0.49
7:HQ:37:ARG:NH1	7:HQ:97:LEU:O	2.46	0.49
7:HQ:125:ASN:N	7:HQ:125:ASN:OD1	2.46	0.49
6:IQ:31:ILE:O	6:IQ:34:SER:OG	2.20	0.49
7:JQ:47:ASN:O	7:JQ:51:MET:N	2.42	0.49
7:LQ:133:ILE:CG2	29:LQ:202:PEB:CB	2.89	0.49
14:MQ:172:SER:HB2	14:MQ:174:ARG:NE	2.27	0.49
29:eR:401:PEB:CHA	7:PR:82:CYS:CA	2.86	0.49
7:NR:59:MET:SD	7:NR:130:ALA:HB2	2.52	0.49
6:OR:118:ARG:HG2	6:OR:119:THR:N	2.28	0.49
7:PR:59:MET:SD	7:PR:130:ALA:HB2	2.52	0.49
7:PR:110:LEU:HD21	7:PR:172:VAL:HG13	1.94	0.49
7:RR:56:VAL:HG21	7:RR:83:LEU:HD23	1.94	0.49
6:WR:142:ARG:CZ	29:WR:202:PEB:CHA	2.91	0.49
3:B1:85:LYS:HD2	3:B1:141:ILE:HB	1.94	0.49
4:C1:27:VAL:HG11	5:D1:98:ILE:HD11	1.94	0.49
5:D1:37:ARG:NH1	5:D1:97:MET:O	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f1:157:ASP:OD2	7:i1:46:SER:CB	2.61	0.49
6:W2:24:LEU:HA	6:W2:27:ILE:HD12	1.95	0.49
7:X2:77:ARG:NH1	7:X2:77:ARG:HG2	2.27	0.49
6:C3:24:LEU:HD23	29:D3:202:PEB:HAD1	1.94	0.49
7:L3:143:THR:OG1	7:L3:145:THR:OG1	2.31	0.49
10:d4:297:MET:HE1	10:d4:307:TYR:CE2	2.48	0.49
6:B4:25:GLU:OE1	6:D4:33:ARG:HG3	2.11	0.49
7:G4:96:ALA:HB1	7:G4:102:ALA:HA	1.94	0.49
7:I4:35:ASN:HD21	29:I4:202:PEB:HMC2	1.78	0.49
7:I4:96:ALA:HB1	7:I4:102:ALA:HA	1.94	0.49
6:J4:47:ASN:HB2	6:J4:50:ALA:HB3	1.93	0.49
6:L4:137:ARG:HH22	29:L4:202:PEB:HNA	1.61	0.49
7:M4:36:LYS:HZ1	29:M4:202:PEB:HBB2	1.78	0.49
13:k6:280:ARG:HD3	13:k6:283:LYS:HZ1	1.78	0.49
2:A7:153:GLN:O	2:A7:154:HIS:C	2.54	0.49
3:B7:7:LYS:HB2	3:B7:7:LYS:HZ2	1.76	0.49
7:I8:4:ALA:CB	7:I8:98:LEU:CD2	2.78	0.49
7:I8:18:TYR:CD2	21:nP:128:GLN:OE1	2.64	0.49
7:C8:72:MEN:O	7:C8:78:ARG:HB3	2.12	0.49
12:E8:36:VAL:HG23	12:E8:37:VAL:HG23	1.95	0.49
5:L9:77:ARG:NH1	31:L9:1001:CYC:O2D	2.45	0.49
5:N9:30:MET:HE1	26:ZP:98:ALA:HB1	1.94	0.49
6:Q9:53:LYS:HZ1	4:EK:49:GLN:C	2.18	0.49
6:d9:149:GLY:O	6:d9:153:SER:OG	2.29	0.49
7:BA:167:SER:O	7:BA:171:ARG:NH1	2.46	0.49
7:DA:8:VAL:HG21	7:DA:27:LEU:HD11	1.94	0.49
17:BB:178:MET:SD	29:BB:301:PEB:HHA1	2.53	0.49
6:aB:135:ARG:HD2	6:aB:157:ASP:CG	2.38	0.49
7:eB:106:GLU:OE2	7:eB:171:ARG:NH1	2.45	0.49
7:BC:33:ASP:HB2	7:BC:36:LYS:HB2	1.94	0.49
7:BC:51:MET:HE1	7:BC:137:GLN:HB3	0.63	0.49
6:BD:137:ARG:HH22	29:BD:202:PEB:HNA	1.60	0.49
7:CD:58:GLY:HA3	29:CD:203:PEB:C2D	2.42	0.49
6:DD:81:LYS:HD2	6:DD:81:LYS:O	2.13	0.49
7:ED:38:LEU:HA	7:ED:38:LEU:HD23	1.64	0.49
7:GD:28:LYS:HE2	7:GD:28:LYS:HB2	1.56	0.49
7:GD:39:ASP:OD2	7:GD:153:PHE:HB3	2.12	0.49
6:HD:118:ARG:NH2	6:JD:114:ARG:HD3	2.28	0.49
7:KD:71:GLY:C	7:KD:73:CYS:H	2.21	0.49
6:CE:77:GLU:OE2	6:CE:78:LYS:NZ	2.45	0.49
3:BF:29:TYR:HH	3:BF:165:ARG:HE	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GF:100:VAL:HG11	5:HF:27:LEU:HD13	1.91	0.49
4:IF:117:GLU:OE1	4:IF:120:ARG:NH2	2.46	0.49
7:VF:107:ASP:OD1	7:VF:107:ASP:N	2.37	0.49
6:fF:17:ARG:NH2	6:hF:158:TYR:OH	2.45	0.49
6:CG:144:MET:HG3	6:CG:148:ALA:HB3	1.94	0.49
7:FG:125:ASN:OD1	7:FG:125:ASN:N	2.46	0.49
7:LG:125:ASN:N	7:LG:125:ASN:OD1	2.46	0.49
3:BI:226:GLN:NE2	3:BI:226:GLN:N	2.60	0.49
4:CI:117:GLU:OE1	4:CI:120:ARG:NH2	2.46	0.49
4:EI:1:MET:HE2	4:EI:109:GLU:OE1	2.12	0.49
7:mI:3:ASP:OD1	7:mI:3:ASP:N	2.45	0.49
6:GJ:72:ALA:CA	29:GJ:201:PEB:HMA2	2.26	0.49
6:GJ:97:LEU:HD23	6:GJ:155:TYR:CE2	2.48	0.49
6:gJ:142:ARG:NH1	29:gJ:202:PEB:NB	2.61	0.49
6:oJ:142:ARG:NH1	29:oJ:202:PEB:NB	2.61	0.49
3:BK:90:SER:HB3	3:BK:92:PRO:HD2	1.93	0.49
5:JK:11:GLN:HB2	15:bM:333:ARG:NH2	2.28	0.49
5:JK:18:PHE:CD1	15:bM:335:ILE:HD12	2.29	0.49
6:jK:52:VAL:CG1	6:jK:86:VAL:HG12	2.33	0.49
6:IL:85:ASP:OD2	6:IL:127:TYR:OH	2.30	0.49
6:KL:47:ASN:HD21	29:KL:202:PEB:CMC	2.24	0.49
6:OL:139:CYS:HB3	29:OL:202:PEB:H3A1	1.72	0.49
7:ZL:108:ARG:NE	16:xL:41:ASN:CB	2.60	0.49
7:dL:110:LEU:HD22	7:dL:175:ALA:HB3	1.95	0.49
29:kL:201:PEB:CBC	7:tL:67:ILE:HG21	2.43	0.49
6:sL:85:ASP:OD2	6:sL:127:TYR:OH	2.30	0.49
16:wL:105:ARG:NH1	29:wL:303:PEB:CAB	2.47	0.49
15:bM:327:LYS:HE3	20:mP:75:GLU:OE2	2.13	0.49
7:DM:106:GLU:OE2	7:DM:171:ARG:NH1	2.45	0.49
7:HM:125:ASN:HD21	7:ZM:70:GLY:CA	2.24	0.49
6:KM:18:PHE:CE2	7:LM:91:ARG:HA	2.48	0.49
7:iM:106:GLU:OE2	7:iM:171:ARG:NH1	2.45	0.49
6:AN:5:ILE:HA	6:AN:8:VAL:HG22	1.93	0.49
7:FN:8:VAL:HG21	7:FN:27:LEU:HD11	1.94	0.49
29:FN:201:PEB:HMC1	14:MN:181:TYR:CD1	2.48	0.49
7:HN:116:THR:HG21	14:MN:295:PHE:CE1	2.38	0.49
6:IN:30:ASN:O	6:IN:34:SER:CB	2.61	0.49
7:JN:8:VAL:HG21	7:JN:27:LEU:HD11	1.94	0.49
6:KN:124:THR:HA	6:KN:127:TYR:HB2	1.93	0.49
7:LN:8:VAL:HG21	7:LN:27:LEU:HD11	1.94	0.49
6:CO:97:LEU:HD11	6:CO:152:PHE:HD1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NO:83:LEU:CD1	9:OO:402:ILE:HG21	2.43	0.49
21:FP:67:ARG:HH21	21:FP:67:ARG:CG	2.13	0.49
21:BP:44:ILE:HD13	21:BP:149:MET:HE2	1.95	0.49
21:LP:44:ILE:HD13	21:LP:149:MET:HE2	1.95	0.49
20:PP:91:LEU:HD13	20:PP:107:ILE:O	2.13	0.49
21:QP:44:ILE:HD13	21:QP:149:MET:HE2	1.95	0.49
21:SP:32:GLN:HG2	27:aP:143:ILE:CD1	2.43	0.49
25:YP:395:ARG:HD2	25:YP:400:GLU:OE1	2.13	0.49
25:YP:779:TYR:CD1	25:YP:783:LYS:HD3	2.48	0.49
20:cP:18:LEU:HG	20:cP:22:GLU:OE1	2.12	0.49
20:gP:13:ALA:CB	25:1P:507:LYS:HD3	2.30	0.49
21:hP:2:GLN:HB2	21:hP:6:THR:HB	1.95	0.49
21:qP:87:TYR:CZ	24:zP:87:LEU:HB2	2.48	0.49
20:rP:12:ASP:OD1	21:wP:94:TYR:HE2	1.96	0.49
20:rP:32:SER:HB2	26:2P:120:PHE:CG	2.47	0.49
27:3P:200:ARG:O	27:3P:204:VAL:HG23	2.13	0.49
7:HQ:82:CYS:HA	29:HQ:201:PEB:HHA1	1.95	0.49
6:KQ:136:ASP:OD1	6:KQ:136:ASP:N	2.30	0.49
6:MR:40:ALA:HB2	6:MR:148:ALA:HB1	1.95	0.49
7:RR:110:LEU:HD21	7:RR:172:VAL:HG13	1.94	0.49
2:A1:52:ARG:O	2:A1:54:ARG:NH1	2.46	0.49
5:L1:154:SER:HA	5:L1:157:VAL:HG22	1.95	0.49
7:P1:124:THR:O	7:P1:127:SER:OG	2.23	0.49
6:Q1:5:ILE:CG2	7:R1:3:ASP:OD2	2.60	0.49
6:W1:106:ASP:HA	6:W1:110:ILE:HB	1.95	0.49
29:S2:201:PEB:CMC	7:X2:79:MET:HG3	2.41	0.49
7:V2:142:ILE:HD12	7:V2:165:VAL:HG11	1.95	0.49
7:D3:65:GLY:O	7:D3:68:SER:OG	2.30	0.49
6:E3:97:LEU:HD11	6:E3:152:PHE:HD1	1.78	0.49
10:d4:89:MET:O	10:d4:93:ARG:N	2.41	0.49
10:d4:138:GLU:OE1	10:d4:248:THR:OG1	2.27	0.49
6:H4:81:LYS:HD2	6:H4:81:LYS:O	2.13	0.49
6:L4:34:SER:OG	6:L4:37:ARG:NH2	2.46	0.49
13:k6:172:LYS:HB3	13:k6:172:LYS:HZ3	1.78	0.49
1:X7:112:ASP:OD1	1:X7:112:ASP:N	2.45	0.49
1:X7:281:ALA:HB1	1:X7:337:VAL:HG23	1.95	0.49
4:M7:18:PHE:HD2	5:N7:45:THR:HG22	1.77	0.49
7:a7:42:ASN:O	7:a7:46:SER:OG	2.30	0.49
7:H8:101:ASP:OD2	7:H8:103:SER:OG	2.30	0.49
7:I8:28:LYS:HB2	19:zJ:290:LEU:C	2.37	0.49
7:I8:45:VAL:HG21	28:4P:123:PHE:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:j9:30:ASN:OD1	6:j9:37:ARG:NH2	2.40	0.49
7:m9:53:SER:O	7:m9:57:SER:OG	2.28	0.49
7:DA:167:SER:O	7:DA:171:ARG:NH1	2.46	0.49
6:IA:37:ARG:HD2	6:IA:97:LEU:C	2.38	0.49
7:JA:37:ARG:NH2	7:JA:164:GLU:OE1	2.38	0.49
15:bB:60:HIS:HD2	15:bB:267:THR:HG21	1.78	0.49
15:bB:274:ARG:N	7:FB:70:GLY:O	2.45	0.49
16:AB:93:GLY:HA3	6:hB:114:ARG:NH2	2.26	0.49
7:RB:106:GLU:OE2	7:RB:171:ARG:NH1	2.45	0.49
7:ZB:106:GLU:OE2	7:ZB:171:ARG:NH1	2.45	0.49
7:DC:33:ASP:HB2	7:DC:36:LYS:HB2	1.94	0.49
7:JC:8:VAL:O	7:JC:12:SER:OG	2.31	0.49
10:dD:306:GLU:O	10:dD:310:GLN:OE1	2.30	0.49
6:BD:57:ASP:N	6:BD:83:TYR:OH	2.46	0.49
7:ED:90:LEU:HD13	7:ED:134:MET:SD	2.53	0.49
6:FD:82:CYS:HA	29:FD:201:PEB:HHA1	1.93	0.49
29:FD:201:PEB:HHB1	29:FD:201:PEB:O2C	2.12	0.49
7:GD:4:ALA:O	7:GD:7:ARG:HB2	2.12	0.49
6:HD:75:ASN:ND2	6:HD:77:GLU:HG2	2.28	0.49
7:MD:90:LEU:HD13	7:MD:134:MET:SD	2.53	0.49
7:DE:7:ARG:NH2	7:DE:103:SER:OG	2.45	0.49
18:ME:65:LYS:CD	18:ME:98:LEU:HD22	2.43	0.49
18:ME:215:THR:O	18:ME:217:SER:C	2.54	0.49
6:lF:52:VAL:HG13	6:lF:86:VAL:HG12	1.95	0.49
6:AG:115:GLU:N	6:AG:115:GLU:OE1	2.46	0.49
7:BG:37:ARG:NH1	7:BG:97:LEU:O	2.46	0.49
7:BG:75:THR:HB	7:BG:78:ARG:HE	1.78	0.49
7:HG:51:MET:HB3	7:HG:134:MET:HE1	1.94	0.49
6:KG:144:MET:HG3	6:KG:148:ALA:HB3	1.94	0.49
3:BI:224:MET:CG	5:JI:152:ASP:HA	2.43	0.49
3:BI:227:GLU:OE2	20:vP:60:GLN:NE2	2.36	0.49
6:OI:106:ASP:HA	6:OI:110:ILE:HB	1.93	0.49
6:ZI:106:ASP:HA	6:ZI:110:ILE:HB	1.93	0.49
6:fl:17:ARG:NH2	6:hi:158:TYR:OH	2.45	0.49
7:FJ:143:THR:OG1	25:YP:514:ILE:HD13	2.13	0.49
7:HJ:122:VAL:CG1	29:zJ:501:PEB:HMA3	2.43	0.49
6:OJ:48:HIS:HA	6:OJ:51:VAL:HG22	1.94	0.49
6:WJ:142:ARG:NH1	29:WJ:203:PEB:NB	2.61	0.49
6:YJ:48:HIS:HA	6:YJ:51:VAL:HG22	1.94	0.49
6:kJ:114:ARG:NH2	16:xJ:210:ILE:CD1	2.69	0.49
6:kJ:142:ARG:NH1	29:kJ:202:PEB:NB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:tJ:201:PEB:CBD	16:xJ:220:TYR:CE2	2.95	0.49
1:XK:271:THR:HG23	5:FK:115:GLU:HG3	1.94	0.49
4:IK:100:VAL:HG21	5:JK:19:LEU:HD12	1.94	0.49
5:NK:165:ASP:N	5:NK:165:ASP:OD1	2.40	0.49
6:QK:34:SER:OG	7:RK:31:ILE:HG21	2.12	0.49
7:HL:2:LEU:H	7:HL:103:SER:HG	1.56	0.49
6:ML:48:HIS:HA	6:ML:51:VAL:HG22	1.94	0.49
6:sL:142:ARG:NH1	29:sL:202:PEB:NB	2.61	0.49
19:zL:243:SER:O	19:zL:243:SER:OG	2.28	0.49
15:bM:341:ALA:HB1	20:mP:68:PRO:CG	2.19	0.49
6:CM:55:ALA:HB1	6:CM:130:SER:HB2	1.95	0.49
7:JM:106:GLU:OE2	7:JM:171:ARG:NH1	2.45	0.49
7:TM:106:GLU:OE2	7:TM:171:ARG:NH1	2.45	0.49
6:fM:135:ARG:HD2	6:fM:157:ASP:CG	2.38	0.49
7:kM:85:ASP:OD1	29:kM:201:PEB:C4C	2.59	0.49
7:BN:8:VAL:HG21	7:BN:27:LEU:HD11	1.94	0.49
7:HN:135:LYS:HE2	7:HN:169:PHE:HB3	1.94	0.49
6:IN:37:ARG:HD2	6:IN:97:LEU:C	2.38	0.49
7:LN:167:SER:O	7:LN:171:ARG:NH1	2.46	0.49
6:CO:142:ARG:HE	29:CO:202:PEB:HNA	1.60	0.49
6:GO:142:ARG:HE	29:GO:202:PEB:HNA	1.60	0.49
21:DP:15:GLN:NE2	23:WP:137:GLN:HG3	2.27	0.49
21:IP:44:ILE:HD13	21:IP:149:MET:HE2	1.95	0.49
20:JP:151:PHE:HE1	21:MP:42:ALA:HB1	1.76	0.49
21:MP:2:GLN:HB2	21:MP:6:THR:HB	1.95	0.49
21:OP:2:GLN:HB2	21:OP:6:THR:HB	1.95	0.49
20:TP:18:LEU:HG	20:TP:22:GLU:OE1	2.12	0.49
21:UP:2:GLN:HB2	21:UP:6:THR:HB	1.95	0.49
21:UP:44:ILE:HD13	21:UP:149:MET:HE2	1.95	0.49
22:VP:101:LYS:HD2	22:VP:155:TYR:CE1	2.47	0.49
25:YP:362:ALA:O	25:YP:365:SER:HB2	2.13	0.49
21:fP:14:VAL:HG22	25:1P:666:ASN:HB3	1.95	0.49
21:fP:19:LEU:HD12	20:gP:97:ILE:HD12	1.95	0.49
21:jP:2:GLN:HB2	21:jP:6:THR:HB	1.95	0.49
21:kP:44:ILE:HD13	21:kP:149:MET:HE2	1.95	0.49
20:mP:106:GLU:OE1	28:4P:50:TYR:HB2	2.13	0.49
21:oP:110:ASN:HD21	24:zP:121:VAL:HB	1.78	0.49
20:rP:91:LEU:HD13	20:rP:107:ILE:O	2.13	0.49
21:uP:69:GLY:HA2	21:wP:14:VAL:CG2	2.43	0.49
20:vP:18:LEU:HG	20:vP:22:GLU:OE1	2.12	0.49
21:wP:44:ILE:HD13	21:wP:149:MET:HE2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:xP:102:GLU:O	22:xP:106:LYS:HG2	2.13	0.49
25:1P:39:GLU:HA	25:1P:42:GLN:HB2	1.94	0.49
25:1P:132:PHE:HZ	25:1P:193:VAL:HG21	1.77	0.49
25:1P:395:ARG:HD2	25:1P:400:GLU:OE1	2.13	0.49
6:CQ:82:CYS:HA	29:CQ:201:PEB:HHA1	1.94	0.49
7:HQ:170:ASP:OD1	7:HQ:170:ASP:N	2.44	0.49
6:KQ:24:LEU:HB3	7:LQ:38:LEU:HD22	1.94	0.49
6:OR:24:LEU:HA	6:OR:27:ILE:HD12	1.95	0.49
6:QR:142:ARG:HD2	29:QR:202:PEB:HBA1	1.86	0.49
5:N1:40:ILE:CG1	29:N1:1002:PEB:CBA	2.81	0.48
6:Z1:106:ASP:HA	6:Z1:110:ILE:HB	1.95	0.48
6:b1:106:ASP:HA	6:b1:110:ILE:HB	1.95	0.48
6:h1:52:VAL:CG1	6:h1:86:VAL:HG12	2.34	0.48
6:j1:106:ASP:HA	6:j1:110:ILE:HB	1.95	0.48
6:O2:118:ARG:HG2	6:O2:119:THR:N	2.28	0.48
7:P2:40:ALA:O	7:P2:43:SER:OG	2.25	0.48
6:S2:48:HIS:O	6:S2:52:VAL:HG22	2.13	0.48
6:W2:138:LEU:CD2	6:W2:144:MET:CE	2.86	0.48
7:J3:39:ASP:OD2	29:J3:202:PEB:NC	2.42	0.48
7:J3:84:ARG:HH22	9:O3:64:SER:H	1.59	0.48
6:B4:57:ASP:N	6:B4:83:TYR:OH	2.46	0.48
6:H4:32:GLN:CD	6:H4:32:GLN:H	2.17	0.48
7:I4:90:LEU:HD13	7:I4:134:MET:SD	2.53	0.48
7:K4:35:ASN:HD21	29:K4:202:PEB:HMC2	1.78	0.48
7:I5:1:MET:CG	28:bP:118:LEU:CD2	2.91	0.48
7:I5:7:ARG:O	7:I5:7:ARG:HG3	2.13	0.48
6:J5:95:TYR:O	6:J5:99:VAL:N	2.44	0.48
13:k6:93:MET:CE	13:k6:142:SER:HB2	2.42	0.48
32:k6:301:PMS:O1S	32:k6:301:PMS:H2	2.13	0.48
1:X7:312:THR:OG1	4:I7:15:GLN:NE2	2.46	0.48
4:M7:70:PRO:CB	20:JP:49:ARG:NH1	2.76	0.48
7:P7:42:ASN:O	7:P7:46:SER:OG	2.30	0.48
7:Y7:42:ASN:O	7:Y7:46:SER:OG	2.30	0.48
7:m7:157:ASP:OD1	7:m7:159:THR:HG23	2.13	0.48
7:F8:72:MEN:HD2	7:F8:123:PRO:HD3	1.78	0.48
7:K8:54:ASP:OD2	7:K8:137:GLN:NE2	2.46	0.48
6:O9:149:GLY:O	6:O9:153:SER:OG	2.29	0.48
6:l9:90:MET:CA	6:l9:93:VAL:HG12	2.41	0.48
7:m9:7:ARG:NH2	7:m9:103:SER:HB2	2.28	0.48
7:BA:75:THR:OG1	7:BA:76:ASN:N	2.41	0.48
7:FA:135:LYS:HE2	7:FA:169:PHE:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FA:201:PEB:CBD	14:MA:181:TYR:CD2	2.95	0.48
7:HA:167:SER:O	7:HA:171:ARG:NH1	2.46	0.48
15:bB:407:THR:HG22	28:bP:81:VAL:HG11	1.92	0.48
16:AB:165:ARG:NH2	16:AB:166:TYR:OH	2.46	0.48
6:CB:135:ARG:HD2	6:CB:157:ASP:CG	2.38	0.48
7:FB:106:GLU:OE2	7:FB:171:ARG:NH1	2.45	0.48
7:HB:125:ASN:HD21	7:ZB:70:GLY:CA	2.24	0.48
7:NB:62:GLU:OE2	28:bP:120:PRO:HB2	2.13	0.48
6:WB:55:ALA:HB1	6:WB:130:SER:HB2	1.95	0.48
6:fB:135:ARG:HD2	6:fB:157:ASP:CG	2.38	0.48
7:gB:106:GLU:OE2	7:gB:171:ARG:NH1	2.45	0.48
18:MC:261:VAL:HG11	6:SF:68:ASN:CG	2.38	0.48
7:CD:35:ASN:HD21	29:CD:202:PEB:HMC2	1.78	0.48
6:DD:47:ASN:HB2	6:DD:50:ALA:HB3	1.93	0.48
7:GD:136:ALA:HB2	29:GD:203:PEB:O2C	2.12	0.48
6:HD:57:ASP:N	6:HD:83:TYR:OH	2.46	0.48
29:HD:201:PEB:O2C	29:HD:201:PEB:HBB1	2.12	0.48
7:ID:88:ILE:HG21	29:ID:201:PEB:CAD	2.41	0.48
29:JD:201:PEB:O2C	29:JD:201:PEB:HBB1	2.12	0.48
6:CE:130:SER:O	6:CE:134:THR:OG1	2.30	0.48
7:JE:8:VAL:O	7:JE:12:SER:OG	2.31	0.48
7:LE:11:ASN:HB3	18:ME:259:PRO:CG	2.43	0.48
7:LE:33:ASP:HB2	7:LE:36:LYS:HB2	1.94	0.48
5:Nf:75:THR:OG1	5:Nf:78:ARG:HB2	2.12	0.48
6:bF:91:ARG:NH2	7:kF:74:TYR:OH	2.41	0.48
7:JG:46:SER:OG	7:JG:47:ASN:N	2.44	0.48
6:KG:115:GLU:OE1	6:KG:115:GLU:N	2.46	0.48
7:LG:37:ARG:NH1	7:LG:97:LEU:O	2.46	0.48
7:LG:137:GLN:N	29:LG:203:PEB:O1C	2.45	0.48
7:LG:141:PHE:CZ	29:LG:203:PEB:C3A	2.93	0.48
14:MG:158:ARG:NH1	30:MG:403:PUB:OD	2.45	0.48
29:FI:1002:PEB:CMC	4:KI:145:GLN:HE21	2.25	0.48
5:NI:75:THR:OG1	5:NI:78:ARG:HB2	2.12	0.48
6:GJ:72:ALA:CB	29:GJ:201:PEB:C1A	2.86	0.48
29:kJ:201:PEB:CBC	7:tJ:67:ILE:HG21	2.43	0.48
6:mJ:27:ILE:CB	7:nJ:38:LEU:HD21	2.43	0.48
6:uJ:112:GLY:N	16:xJ:96:GLU:HG2	2.27	0.48
6:uJ:142:ARG:NH1	29:uJ:203:PEB:NB	2.61	0.48
19:zJ:224:LEU:HD11	19:zJ:243:SER:HB2	1.95	0.48
19:zJ:243:SER:O	19:zJ:243:SER:OG	2.28	0.48
6:OK:52:VAL:HG21	6:OK:87:ASP:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OL:85:ASP:OD2	6:OL:127:TYR:OH	2.30	0.48
6:QL:74:GLU:CA	6:QL:78:LYS:CD	2.82	0.48
6:QL:74:GLU:C	6:QL:78:LYS:HD2	2.38	0.48
7:IL:76:ASN:HB2	6:OL:108:TRP:O	2.13	0.48
6:mL:142:ARG:NH1	29:mL:202:PEB:NB	2.61	0.48
19:zL:343:GLN:NE2	20:GP:61:ARG:C	2.62	0.48
15:bM:60:HIS:HD2	15:bM:267:THR:HG21	1.78	0.48
17:BM:72:LYS:HA	17:BM:75:LYS:HD3	1.95	0.48
17:BM:178:MET:SD	29:BM:301:PEB:HHA1	2.53	0.48
6:EM:55:ALA:HB1	6:EM:130:SER:HB2	1.95	0.48
7:LM:106:GLU:OE2	7:LM:171:ARG:NH1	2.45	0.48
7:BN:167:SER:O	7:BN:171:ARG:NH1	2.46	0.48
7:FN:135:LYS:HE2	7:FN:169:PHE:HB3	1.94	0.48
7:FN:167:SER:O	7:FN:171:ARG:NH1	2.46	0.48
7:JN:87:GLU:OE2	14:MN:264:VAL:HG23	2.13	0.48
7:BO:120:LEU:HD23	7:BO:122:VAL:HG23	1.93	0.48
21:DP:17:LYS:HE3	23:WP:134:ARG:CD	2.37	0.48
20:CP:106:GLU:OE1	23:WP:173:LEU:HA	2.13	0.48
20:EP:91:LEU:HD13	20:EP:107:ILE:O	2.13	0.48
20:KP:18:LEU:HG	20:KP:22:GLU:OE1	2.12	0.48
20:KP:94:TYR:CE2	21:OP:13:ASP:HB2	2.48	0.48
20:KP:102:THR:HG22	28:bP:50:TYR:CD2	2.48	0.48
21:MP:97:LEU:HD13	20:NP:18:LEU:HD22	1.94	0.48
21:SP:62:TYR:CB	27:aP:54:GLN:HE22	2.26	0.48
25:YP:483:ARG:CG	25:YP:506:PRO:HD3	2.43	0.48
21:dP:72:MET:HA	21:dP:77:ARG:CB	2.43	0.48
23:yP:41:ALA:HB1	23:yP:103:ILE:HD11	1.95	0.48
25:1P:779:TYR:CD1	25:1P:783:LYS:HD3	2.48	0.48
28:4P:74:GLU:O	28:4P:78:GLN:NE2	2.46	0.48
6:IQ:144:MET:HG3	6:IQ:148:ALA:HB3	1.94	0.48
29:eR:401:PEB:C3A	7:PR:82:CYS:HB2	2.40	0.48
6:OR:48:HIS:O	6:OR:52:VAL:HG22	2.13	0.48
7:XR:59:MET:SD	7:XR:130:ALA:HB2	2.52	0.48
3:B1:205:ARG:HE	20:JP:52:LYS:HE2	1.64	0.48
6:U1:106:ASP:HA	6:U1:110:ILE:HB	1.95	0.48
7:N2:59:MET:SD	7:N2:130:ALA:HB2	2.52	0.48
6:Q2:24:LEU:HA	6:Q2:27:ILE:HD12	1.95	0.48
6:Q2:138:LEU:C	6:Q2:138:LEU:HD23	2.37	0.48
6:U2:114:ARG:HB3	6:U2:118:ARG:NH2	2.28	0.48
7:V2:59:MET:SD	7:V2:130:ALA:HB2	2.52	0.48
6:C3:97:LEU:HD11	6:C3:152:PHE:HD1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K3:142:ARG:HE	29:K3:202:PEB:HNA	1.60	0.48
6:D4:32:GLN:OE1	6:D4:32:GLN:N	2.46	0.48
6:F4:57:ASP:N	6:F4:83:TYR:OH	2.46	0.48
6:L4:59:CYS:HB3	6:L4:130:SER:HB3	1.94	0.48
7:M4:90:LEU:HD13	7:M4:134:MET:SD	2.53	0.48
7:I5:142:ILE:HD12	7:I5:142:ILE:HA	1.68	0.48
7:L5:108:ARG:CD	4:I7:64:PRO:HG2	2.35	0.48
4:G7:77:SER:OG	4:G7:78:ALA:N	2.44	0.48
7:Y7:39:ASP:OD1	7:Y7:153:PHE:CD1	2.65	0.48
7:a7:12:SER:CB	7:a7:19:VAL:CG1	2.91	0.48
6:f7:37:ARG:NH1	6:f7:98:VAL:O	2.43	0.48
7:i7:42:ASN:O	7:i7:46:SER:OG	2.30	0.48
7:A8:54:ASP:OD2	7:A8:137:GLN:NE2	2.46	0.48
7:C8:54:ASP:OD2	7:C8:137:GLN:NE2	2.46	0.48
1:X9:138:ARG:HH12	1:X9:233:SER:HG	1.60	0.48
4:K9:50:ARG:NH1	3:BI:228:MET:CB	2.76	0.48
6:U9:60:PHE:CD2	13:kH:259:SER:HB3	2.48	0.48
6:U9:77:GLU:HG3	13:kH:211:PRO:HB2	1.93	0.48
6:h9:149:GLY:O	6:h9:153:SER:OG	2.29	0.48
7:k9:39:ASP:OD1	7:k9:153:PHE:CD1	2.65	0.48
6:CA:124:THR:HA	6:CA:127:TYR:HB2	1.93	0.48
7:FA:35:ASN:OD1	29:FA:202:PEB:ND	2.46	0.48
14:MA:164:LYS:HA	14:MA:164:LYS:HD3	1.66	0.48
6:UB:55:ALA:HB1	6:UB:130:SER:HB2	1.95	0.48
7:BC:8:VAL:O	7:BC:12:SER:OG	2.31	0.48
6:DD:24:LEU:HD22	7:ED:38:LEU:CD2	2.43	0.48
6:FD:81:LYS:HD2	6:FD:81:LYS:O	2.13	0.48
6:HD:81:LYS:HD2	6:HD:81:LYS:O	2.13	0.48
6:HD:131:ILE:O	6:HD:134:THR:OG1	2.22	0.48
7:ID:90:LEU:HD13	7:ID:134:MET:SD	2.53	0.48
7:KD:51:MET:CE	7:KD:141:PHE:HE2	2.22	0.48
6:LD:57:ASP:N	6:LD:83:TYR:OH	2.46	0.48
7:FE:8:VAL:O	7:FE:12:SER:OG	2.31	0.48
7:LE:8:VAL:O	7:LE:12:SER:OG	2.31	0.48
18:ME:65:LYS:HB3	18:ME:69:PHE:HD2	1.79	0.48
18:ME:235:GLY:C	29:SI:202:PEB:HMA2	2.38	0.48
5:FF:35:ASN:HD22	29:FF:1002:PEB:HND	1.62	0.48
5:JF:75:THR:OG1	5:JF:78:ARG:HB2	2.13	0.48
6:SF:32:GLN:HG3	6:UF:32:GLN:HG3	1.94	0.48
7:BG:82:CYS:HA	29:BG:201:PEB:HHA1	1.95	0.48
7:JG:125:ASN:N	7:JG:125:ASN:OD1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:kH:21:GLY:HA3	29:YM:203:PEB:O1C	2.13	0.48
3:BI:224:MET:HE2	5:JI:153:CYS:H	1.75	0.48
5:LI:35:ASN:HD22	29:LI:1002:PEB:HND	1.61	0.48
5:NI:39:ASP:HA	29:NI:1002:PEB:HMD1	1.95	0.48
6:dI:99:VAL:HG23	7:eI:9:VAL:HG21	1.94	0.48
7:iI:144:ASN:HD21	7:iI:153:PHE:HD2	1.61	0.48
6:AJ:55:ALA:HA	6:AJ:133:TYR:HE2	1.79	0.48
7:LJ:7:ARG:NH1	28:4P:225:ARG:HD2	2.28	0.48
6:UJ:142:ARG:NH1	29:UJ:202:PEB:NB	2.61	0.48
6:YJ:142:ARG:NH1	29:YJ:202:PEB:NB	2.61	0.48
6:iJ:142:ARG:NH1	29:iJ:202:PEB:NB	2.61	0.48
6:mJ:142:ARG:NH1	29:mJ:202:PEB:NB	2.61	0.48
7:nJ:108:ARG:HA	16:xJ:197:LEU:HD23	1.94	0.48
6:qJ:98:VAL:HG21	7:rJ:19:VAL:HG22	1.95	0.48
6:sJ:142:ARG:NH1	29:sJ:202:PEB:NB	2.61	0.48
6:uJ:111:ALA:CA	16:xJ:96:GLU:HG2	2.43	0.48
29:vJ:201:PEB:O1C	16:xJ:137:TYR:CE2	2.66	0.48
3:BK:37:LEU:HD13	5:FK:111:ASN:HD22	1.78	0.48
3:BK:207:ARG:NH1	3:BK:211:GLN:C	2.71	0.48
4:IK:8:ALA:HB1	4:IK:23:GLU:HB3	1.94	0.48
6:UK:106:ASP:HA	6:UK:110:ILE:HB	1.95	0.48
7:HL:118:ILE:HD12	19:zL:398:GLU:HG2	1.95	0.48
7:PL:47:ASN:HD21	7:PL:149:ARG:HH11	1.60	0.48
6:WL:19:PRO:O	7:XL:45:VAL:HG21	2.13	0.48
7:fL:16:ALA:HB2	7:jL:69:PRO:HG2	1.94	0.48
7:lL:76:ASN:HD22	6:oL:109:GLY:HA2	1.78	0.48
6:mL:48:HIS:HA	6:mL:51:VAL:HG22	1.94	0.48
15:bM:335:ILE:O	15:bM:335:ILE:HG23	2.13	0.48
6:WM:85:ASP:OD2	6:WM:127:TYR:OH	2.32	0.48
6:dM:85:ASP:OD2	6:dM:127:TYR:OH	2.32	0.48
7:kM:88:ILE:HG22	7:kM:89:ILE:N	2.27	0.48
6:lM:79:ILE:CD1	6:OR:142:ARG:HA	2.42	0.48
6:EN:43:LYS:HZ3	6:EN:143:ASP:HB3	1.77	0.48
7:JN:167:SER:O	7:JN:171:ARG:NH1	2.46	0.48
14:MN:153:MET:SD	14:MN:270:ASN:ND2	2.81	0.48
14:MN:296:ASN:HA	14:MN:299:ARG:HD2	1.95	0.48
7:FO:65:GLY:O	7:FO:68:SER:OG	2.30	0.48
7:HO:39:ASP:OD2	29:HO:202:PEB:NC	2.43	0.48
6:KO:142:ARG:HE	29:KO:202:PEB:HNA	1.60	0.48
21:IP:72:MET:HA	21:IP:77:ARG:CB	2.43	0.48
20:NP:91:LEU:HD13	20:NP:107:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:PP:32:SER:CB	26:ZP:120:PHE:HA	2.43	0.48
21:UP:151:LEU:HD21	25:1P:687:LEU:CD2	2.43	0.48
27:aP:272:MET:O	27:aP:276:THR:HG23	2.13	0.48
20:cP:23:LEU:HD22	21:hP:38:VAL:CG1	2.35	0.48
21:jP:44:ILE:HD13	21:jP:149:MET:HE2	1.95	0.48
21:sP:2:GLN:HB2	21:sP:6:THR:HB	1.95	0.48
24:zP:61:ALA:HB2	24:zP:99:SER:HA	1.95	0.48
6:AQ:82:CYS:HA	29:AQ:201:PEB:HHA1	1.94	0.48
6:AQ:115:GLU:N	6:AQ:115:GLU:OE1	2.46	0.48
7:DQ:170:ASP:N	7:DQ:170:ASP:OD1	2.44	0.48
7:FQ:125:ASN:OD1	7:FQ:125:ASN:N	2.46	0.48
7:HQ:75:THR:HB	7:HQ:78:ARG:HE	1.78	0.48
8:eR:57:PHE:CD2	7:TR:80:ALA:HB3	2.42	0.48
6:MR:26:SER:HA	6:OR:26:SER:HA	1.95	0.48
6:OR:105:LEU:HD23	6:OR:158:TYR:HD2	1.78	0.48
2:A1:219:GLY:HA2	2:A1:224:GLN:HE21	1.78	0.48
3:B1:13:GLN:HB3	3:B1:15:GLN:CD	2.39	0.48
4:C1:144:GLY:O	4:C1:148:ASN:N	2.42	0.48
5:D1:30:MET:HE3	5:D1:30:MET:HB2	1.71	0.48
4:E1:40:ALA:HA	4:E1:142:LEU:CD1	2.43	0.48
5:J1:47:ASN:ND2	5:J1:141:LEU:HD11	2.28	0.48
5:J1:145:THR:O	5:J1:148:THR:HG22	2.12	0.48
6:O1:9:VAL:HG11	7:P1:1:MET:HE1	1.94	0.48
6:f1:106:ASP:HA	6:f1:110:ILE:HB	1.95	0.48
6:M2:26:SER:HA	6:O2:26:SER:HA	1.95	0.48
6:M2:40:ALA:HB2	6:M2:148:ALA:HB1	1.95	0.48
6:M2:43:LYS:HD2	6:M2:43:LYS:O	2.13	0.48
6:S2:105:LEU:HD23	6:S2:158:TYR:HD2	1.78	0.48
7:T2:79:MET:O	7:T2:83:LEU:HG	2.14	0.48
6:U2:118:ARG:HG2	6:U2:119:THR:N	2.28	0.48
7:B3:142:ILE:HD11	7:B3:165:VAL:HG11	1.95	0.48
6:I3:97:LEU:HD11	6:I3:152:PHE:HD1	1.78	0.48
9:O3:179:GLU:OE1	9:O3:183:TYR:OH	2.30	0.48
10:d4:105:SER:OG	10:d4:106:GLY:N	2.45	0.48
6:B4:78:LYS:HA	6:B4:81:LYS:CD	2.34	0.48
6:D4:114:ARG:HD3	6:F4:118:ARG:HH11	1.77	0.48
6:D4:131:ILE:O	6:D4:134:THR:OG1	2.22	0.48
7:M4:35:ASN:HD21	29:M4:202:PEB:HMC2	1.78	0.48
7:M4:71:GLY:C	7:M4:73:CYS:H	2.21	0.48
7:C5:54:ASP:OD2	7:C5:137:GLN:NE2	2.46	0.48
13:k6:259:SER:HB3	6:U7:60:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:E7:1001:CYC:HBB2	5:H7:75:THR:HA	1.94	0.48
4:K7:45:THR:HG23	5:L7:18:PHE:HB3	1.94	0.48
6:S7:149:GLY:O	6:S7:153:SER:OG	2.29	0.48
7:Y7:156:GLY:CA	12:E8:120:TYR:CE2	2.96	0.48
6:f7:43:LYS:NZ	6:f7:143:ASP:O	2.35	0.48
6:l7:37:ARG:NH1	6:l7:98:VAL:O	2.43	0.48
5:L9:17:GLU:OE1	20:vP:64:ASP:HB2	2.14	0.48
6:S9:28:GLN:HE21	29:T9:202:PEB:CBD	2.25	0.48
6:KA:131:ILE:HD12	6:KA:159:LEU:HD22	1.83	0.48
15:bB:371:ALA:HA	15:bB:374:THR:HG22	1.95	0.48
17:BB:80:LYS:HZ2	7:DB:115:GLU:CD	2.10	0.48
17:BB:81:ALA:CA	7:RB:115:GLU:CD	2.87	0.48
6:CB:55:ALA:HB1	6:CB:130:SER:HB2	1.95	0.48
7:NB:15:LYS:HB3	21:MP:128:GLN:HE22	1.78	0.48
7:NB:129:ARG:HD3	28:bP:121:HIS:HB3	1.95	0.48
6:WB:85:ASP:OD2	6:WB:127:TYR:OH	2.32	0.48
6:dB:55:ALA:HB1	6:dB:130:SER:HB2	1.95	0.48
6:AC:89:TYR:HH	6:AC:117:TYR:HH	1.60	0.48
7:HC:33:ASP:HB2	7:HC:36:LYS:HB2	1.94	0.48
6:IC:14:ALA:HB1	18:MC:51:PRO:CA	2.43	0.48
6:KC:130:SER:O	6:KC:134:THR:OG1	2.30	0.48
6:DD:34:SER:HB2	6:DD:37:ARG:NH2	2.24	0.48
7:MD:41:VAL:HG21	7:MD:98:LEU:HD12	1.95	0.48
6:KE:152:PHE:CZ	6:KE:156:LEU:CD2	2.79	0.48
7:mF:3:ASP:N	7:mF:3:ASP:OD1	2.45	0.48
2:AI:38:ASP:OD2	2:AI:40:LYS:NZ	2.45	0.48
2:AI:227:GLN:HA	2:AI:230:VAL:HG12	1.94	0.48
3:BI:14:ASN:HB3	3:BI:164:ARG:HG2	1.95	0.48
3:BI:94:ARG:NH1	4:MI:14:ASN:HD21	2.11	0.48
6:QI:106:ASP:HA	6:QI:110:ILE:HB	1.93	0.48
6:jI:140:VAL:CG1	6:jI:146:ALA:HA	2.43	0.48
6:EJ:139:CYS:HB3	29:EJ:202:PEB:H3A1	1.72	0.48
6:SJ:85:ASP:OD2	6:SJ:127:TYR:OH	2.30	0.48
6:WJ:48:HIS:HA	6:WJ:51:VAL:HG22	1.94	0.48
4:EK:13:ASP:OD2	5:FK:108:ARG:NH1	2.40	0.48
4:EK:40:ALA:CA	4:EK:146:VAL:HG13	2.42	0.48
4:EK:100:VAL:HG21	5:FK:19:LEU:HD12	1.95	0.48
6:SK:52:VAL:HG21	6:SK:87:ASP:HA	1.95	0.48
6:UK:52:VAL:CG1	6:UK:86:VAL:HG12	2.33	0.48
6:fK:106:ASP:HA	6:fK:110:ILE:HB	1.95	0.48
6:IL:43:LYS:HA	6:IL:43:LYS:HD2	1.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:gL:48:HIS:HA	6:gL:51:VAL:HG22	1.94	0.48
6:iL:161:ASN:C	16:wL:92:LYS:NZ	2.63	0.48
7:iL:110:LEU:HD22	7:iL:175:ALA:HB3	1.95	0.48
6:oL:139:CYS:HB3	29:oL:202:PEB:H3A1	1.72	0.48
15:bM:351:ASP:N	15:bM:351:ASP:OD1	2.44	0.48
17:BM:123:LYS:HE2	29:BM:301:PEB:HBC2	1.78	0.48
6:aM:55:ALA:HB1	6:aM:130:SER:HB2	1.95	0.48
6:hM:54:GLU:HG3	6:hM:133:TYR:CE2	2.31	0.48
7:BO:37:ARG:NH1	7:BO:97:LEU:O	2.46	0.48
6:EO:24:LEU:C	6:EO:24:LEU:CD1	2.86	0.48
6:EO:97:LEU:HD11	6:EO:152:PHE:HD1	1.78	0.48
20:AP:108:GLY:HA2	21:FP:75:THR:CG2	2.44	0.48
20:CP:91:LEU:HD13	20:CP:107:ILE:O	2.13	0.48
21:HP:27:LEU:HD13	25:YP:54:LEU:HD21	1.96	0.48
21:HP:44:ILE:HD13	21:HP:149:MET:HE2	1.95	0.48
20:JP:151:PHE:HB3	20:NP:20:PRO:HB3	1.96	0.48
25:YP:351:LEU:HD11	25:YP:357:PHE:HD1	1.78	0.48
21:dP:89:LEU:HD23	20:eP:17:TYR:OH	2.13	0.48
27:3P:287:LEU:N	27:3P:287:LEU:CD1	2.76	0.48
6:GQ:28:GLN:HA	6:GQ:31:ILE:HB	1.94	0.48
6:KQ:150:VAL:O	6:KQ:153:SER:OG	2.29	0.48
6:WR:92:LEU:C	6:WR:105:LEU:HD21	2.39	0.48
6:S1:157:ASP:OD2	7:V1:46:SER:HB2	2.14	0.48
6:S2:91:ARG:NH1	7:T2:16:ALA:CA	2.63	0.48
7:V2:3:ASP:H	7:V2:6:SER:HG	1.61	0.48
6:E3:142:ARG:HE	29:E3:202:PEB:HNA	1.60	0.48
7:N3:92:TYR:CD2	7:N3:109:CYS:SG	3.05	0.48
10:d4:183:ARG:HH21	10:d4:193:GLN:HB2	1.78	0.48
7:C4:65:GLY:O	7:C4:68:SER:OG	2.15	0.48
6:D4:142:ARG:CG	6:D4:143:ASP:N	2.75	0.48
7:G4:76:ASN:CG	6:J4:113:ALA:CA	2.82	0.48
7:K4:111:ASN:OD1	7:K4:111:ASN:N	2.34	0.48
7:F5:72:MEN:HD2	7:F5:123:PRO:HD3	1.78	0.48
6:J5:114:ARG:NH2	6:J5:163:LEU:O	2.46	0.48
7:C5:72:MEN:O	7:C5:78:ARG:HB3	2.12	0.48
7:C5:142:ILE:HD12	7:C5:142:ILE:HA	1.68	0.48
12:E5:164:VAL:HG22	29:kl:203:PEB:OD	2.14	0.48
6:h7:43:LYS:NZ	6:h7:143:ASP:O	2.35	0.48
7:B8:101:ASP:OD2	7:B8:103:SER:OG	2.30	0.48
7:G8:36:LYS:NZ	7:G8:158:CYS:SG	2.87	0.48
3:B9:209:GLN:CG	27:aP:55:TYR:CG	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C9:57:GLN:NE2	4:GI:61:ASN:OD1	2.45	0.48
7:Y9:42:ASN:O	7:Y9:46:SER:OG	2.30	0.48
7:g9:42:ASN:O	7:g9:46:SER:OG	2.30	0.48
6:GA:118:ARG:HG3	6:IA:114:ARG:HG2	1.95	0.48
29:AB:302:PEB:CBD	29:kB:201:PEB:HBC2	2.41	0.48
17:BB:154:LEU:HD21	17:BB:167:ILE:HG13	1.95	0.48
6:EB:135:ARG:HD2	6:EB:157:ASP:CG	2.38	0.48
6:IB:55:ALA:HB1	6:IB:130:SER:HB2	1.95	0.48
6:MB:48:HIS:CD2	6:MB:48:HIS:C	2.91	0.48
6:UB:142:ARG:HD2	14:MG:112:LEU:HA	1.96	0.48
7:LC:8:VAL:O	7:LC:12:SER:OG	2.31	0.48
7:CD:41:VAL:HG21	7:CD:98:LEU:HD12	1.95	0.48
7:GD:35:ASN:HD21	29:GD:202:PEB:HMC2	1.78	0.48
7:GD:71:GLY:C	7:GD:73:CYS:H	2.21	0.48
6:HD:59:CYS:HB3	6:HD:130:SER:HB3	1.94	0.48
29:AE:201:PEB:HAC1	7:JE:79:MET:HE2	1.95	0.48
7:BE:79:MET:HE2	29:EE:201:PEB:HAC1	1.96	0.48
7:DE:8:VAL:O	7:DE:12:SER:OG	2.31	0.48
7:HE:8:VAL:O	7:HE:12:SER:OG	2.31	0.48
18:ME:141:ARG:NH1	18:ME:144:ARG:NH2	2.61	0.48
2:AF:38:ASP:OD2	2:AF:40:LYS:NZ	2.45	0.48
3:BF:14:ASN:HB3	3:BF:164:ARG:HG2	1.95	0.48
3:BF:94:ARG:NH1	4:MF:14:ASN:HD21	2.11	0.48
6:OF:6:THR:CG2	7:PF:1:MET:HE2	2.35	0.48
6:AG:82:CYS:HA	29:AG:201:PEB:HHA1	1.94	0.48
7:FG:37:ARG:NH1	7:FG:97:LEU:O	2.46	0.48
6:GG:82:CYS:HA	29:GG:201:PEB:HHA1	1.94	0.48
7:HG:82:CYS:HA	29:HG:201:PEB:HHA1	1.95	0.48
1:XI:321:TYR:OH	5:HI:84:ARG:NH2	2.47	0.48
5:HI:169:VAL:O	5:HI:169:VAL:HG12	2.12	0.48
7:mI:105:LEU:HD12	7:mI:105:LEU:C	2.39	0.48
6:AJ:85:ASP:OD2	6:AJ:127:TYR:OH	2.30	0.48
7:BJ:110:LEU:HD22	7:BJ:175:ALA:HB3	1.94	0.48
7:ZJ:110:LEU:HD22	7:ZJ:175:ALA:HB3	1.94	0.48
7:hJ:110:LEU:HD22	7:hJ:175:ALA:HB3	1.94	0.48
7:IJ:76:ASN:HD22	6:oJ:109:GLY:HA2	1.78	0.48
29:nJ:201:PEB:O1C	16:xJ:103:LEU:HD13	2.13	0.48
16:xJ:102:ALA:CB	16:xJ:105:ARG:CD	2.83	0.48
2:AK:52:ARG:O	2:AK:54:ARG:NH1	2.46	0.48
4:EK:40:ALA:HA	4:EK:142:LEU:CD1	2.43	0.48
5:HK:35:ASN:O	29:HK:1002:PEB:H1D1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:HK:154:SER:HA	5:HK:157:VAL:HG22	1.95	0.48
5:JK:154:SER:HA	5:JK:157:VAL:HG22	1.95	0.48
6:QK:106:ASP:HA	6:QK:110:ILE:HB	1.95	0.48
7:VK:159:THR:HB	14:MN:103:ARG:CG	2.36	0.48
7:cK:97:LEU:CD1	7:cK:165:VAL:HG23	2.40	0.48
7:gK:171:ARG:CZ	14:MN:97:PHE:HZ	2.20	0.48
6:hK:52:VAL:HG21	6:hK:87:ASP:HA	1.95	0.48
6:AL:39:GLU:OE1	6:AL:145:SER:HB3	2.13	0.48
7:BL:110:LEU:HD22	7:BL:175:ALA:HB3	1.94	0.48
6:IL:142:ARG:NH1	29:IL:202:PEB:NB	2.61	0.48
6:cL:66:LEU:HB3	6:cL:72:ALA:HB3	1.95	0.48
7:hL:110:LEU:HD22	7:hL:175:ALA:HB3	1.94	0.48
6:oL:85:ASP:OD2	6:oL:127:TYR:OH	2.30	0.48
6:qL:98:VAL:HG21	7:rL:19:VAL:HG22	1.95	0.48
6:qL:142:ARG:NH1	29:qL:202:PEB:NB	2.61	0.48
7:tL:159:THR:O	7:tL:163:SER:OG	2.26	0.48
16:wL:102:ALA:CA	16:wL:105:ARG:NE	2.74	0.48
16:wL:250:SER:O	16:wL:254:GLN:HG3	2.14	0.48
6:MM:48:HIS:CD2	6:MM:48:HIS:C	2.91	0.48
7:FN:35:ASN:OD1	29:FN:202:PEB:ND	2.46	0.48
21:DP:2:GLN:HB2	21:DP:6:THR:HB	1.94	0.48
20:JP:154:ASP:OD2	21:MP:46:ALA:CB	2.61	0.48
20:RP:91:LEU:HD13	20:RP:107:ILE:O	2.13	0.48
25:YP:39:GLU:HA	25:YP:42:GLN:HB2	1.94	0.48
28:bP:46:THR:CB	28:bP:58:GLY:H	2.27	0.48
20:mP:103:PRO:HG3	28:4P:50:TYR:CE1	2.49	0.48
31:nP:1001:CYC:HMA2	24:zP:102:TYR:HB2	1.95	0.48
25:1P:206:PHE:HB3	25:1P:207:PRO:HD2	1.95	0.48
25:1P:273:GLU:O	25:1P:277:VAL:HG23	2.14	0.48
7:DQ:125:ASN:N	7:DQ:125:ASN:OD1	2.46	0.48
6:EQ:144:MET:HG3	6:EQ:148:ALA:HB3	1.94	0.48
7:JQ:82:CYS:HA	29:JQ:201:PEB:HHA1	1.95	0.48
7:LQ:137:GLN:OE1	29:LQ:202:PEB:NB	2.46	0.48
8:eR:153:GLN:HE22	7:XR:108:ARG:NH1	1.72	0.48
7:VR:110:LEU:HD21	7:VR:172:VAL:HG13	1.94	0.48
1:X1:145:SER:OG	1:X1:243:GLN:O	2.30	0.48
4:E1:53:THR:CG2	6:Q7:76:GLN:HE22	2.26	0.48
6:f1:49:GLU:O	6:f1:53:LYS:HD2	2.12	0.48
7:g1:124:THR:O	7:g1:127:SER:OG	2.23	0.48
6:O2:48:HIS:O	6:O2:52:VAL:HG22	2.13	0.48
7:X2:56:VAL:HG21	7:X2:83:LEU:HD23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F3:42:ASN:O	7:F3:46:SER:OG	2.26	0.48
7:F3:53:SER:O	7:F3:57:SER:OG	2.26	0.48
6:G3:142:ARG:HE	29:G3:202:PEB:HNA	1.60	0.48
6:K3:97:LEU:HD11	6:K3:152:PHE:HD1	1.78	0.48
9:O3:218:LYS:HB2	9:O3:252:ARG:HG2	1.95	0.48
6:B4:59:CYS:HB3	6:B4:130:SER:HB3	1.94	0.48
6:D4:24:LEU:CD1	7:E4:38:LEU:HD22	2.39	0.48
7:G4:59:MET:HE2	7:G4:129:ARG:HG3	1.96	0.48
7:I5:54:ASP:OD2	7:I5:137:GLN:NE2	2.46	0.48
7:m7:7:ARG:NH2	7:m7:103:SER:HB2	2.28	0.48
7:m7:42:ASN:O	7:m7:46:SER:OG	2.30	0.48
7:I8:24:LEU:CA	19:zJ:291:ILE:HG23	2.43	0.48
7:L8:72:MEN:HD2	7:L8:123:PRO:HD3	1.78	0.48
7:L8:101:ASP:OD2	7:L8:103:SER:OG	2.30	0.48
2:A9:49:ALA:O	2:A9:62:ARG:NH1	2.47	0.48
3:B9:197:PHE:HB2	21:sP:50:THR:CG2	2.43	0.48
5:L9:114:ARG:NH1	27:3P:228:GLY:HA3	2.28	0.48
6:Q9:76:GLN:HE22	4:EK:53:THR:CG2	2.27	0.48
6:U9:149:GLY:O	6:U9:153:SER:OG	2.29	0.48
6:Z9:149:GLY:O	6:Z9:153:SER:OG	2.29	0.48
29:a9:203:PEB:HMA3	8:eR:279:ILE:HG12	1.95	0.48
6:CA:5:ILE:HA	6:CA:8:VAL:HG22	1.93	0.48
7:JA:135:LYS:HE2	7:JA:169:PHE:HB3	1.94	0.48
6:KA:15:ALA:C	14:MA:247:LYS:HG3	2.39	0.48
7:LA:8:VAL:HG21	7:LA:27:LEU:HD11	1.94	0.48
7:LA:167:SER:O	7:LA:171:ARG:NH1	2.46	0.48
15:bB:333:ARG:HG3	15:bB:333:ARG:O	2.13	0.48
7:LB:71:GLY:N	7:RB:125:ASN:HD21	2.09	0.48
7:RB:56:VAL:O	7:RB:60:ILE:HG12	2.14	0.48
6:dB:85:ASP:OD2	6:dB:127:TYR:OH	2.32	0.48
7:FC:8:VAL:O	7:FC:12:SER:OG	2.31	0.48
18:MC:65:LYS:C	18:MC:67:GLN:N	2.70	0.48
18:MC:99:MET:HE3	18:MC:99:MET:HB3	1.72	0.48
10:dD:111:ARG:HD3	10:dD:180:TYR:CE2	2.45	0.48
6:BD:59:CYS:HB3	6:BD:130:SER:HB3	1.94	0.48
29:CD:202:PEB:HMD3	29:CD:202:PEB:HHC1	1.60	0.48
7:ED:41:VAL:HG21	7:ED:98:LEU:HD12	1.95	0.48
7:ED:59:MET:HE2	7:ED:129:ARG:HG3	1.96	0.48
7:ED:96:ALA:HB1	7:ED:102:ALA:HA	1.94	0.48
7:ID:1:MET:HE3	7:ID:108:ARG:NH1	1.85	0.48
7:ID:165:VAL:HA	7:ID:168:TYR:CD2	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:JD:59:CYS:HB3	6:JD:130:SER:HB3	1.94	0.48
7:MD:107:ASP:O	7:MD:111:ASN:ND2	2.47	0.48
6:IE:102:THR:O	6:IE:102:THR:OG1	2.29	0.48
7:LE:96:ALA:HB2	7:LE:105:LEU:HB3	1.96	0.48
1:XF:157:ASP:HB2	1:XF:247:LYS:HE3	1.93	0.48
7:aF:144:ASN:HD21	7:aF:153:PHE:HD2	1.61	0.48
6:jF:140:VAL:CG1	6:jF:146:ALA:HA	2.43	0.48
7:BG:47:ASN:O	7:BG:51:MET:N	2.42	0.48
7:BG:141:PHE:CZ	29:BG:203:PEB:C3A	2.92	0.48
6:CG:2:LYS:HD2	14:MG:138:SER:O	2.13	0.48
7:DG:37:ARG:NH1	7:DG:97:LEU:O	2.46	0.48
6:IG:2:LYS:NZ	14:MG:254:VAL:CG2	2.65	0.48
7:JG:37:ARG:NH1	7:JG:97:LEU:O	2.46	0.48
13:kH:118:ARG:C	13:kH:120:ILE:CD1	2.80	0.48
5:DI:35:ASN:HD22	29:DI:1002:PEB:HND	1.61	0.48
4:EI:117:GLU:OE1	4:EI:120:ARG:NH2	2.45	0.48
6:II:106:ASP:HA	6:II:110:ILE:HB	1.93	0.48
6:KJ:142:ARG:NH1	29:KJ:202:PEB:NB	2.61	0.48
6:QJ:74:GLU:C	6:QJ:78:LYS:HD2	2.38	0.48
7:ZJ:107:ASP:O	16:xJ:39:LEU:HB3	2.14	0.48
19:zJ:332:LEU:HD22	20:pP:63:PRO:HB2	1.94	0.48
4:CK:114:GLY:C	4:CK:116:GLU:N	2.69	0.48
5:JK:145:THR:HG21	5:JK:150:ILE:HD11	1.81	0.48
5:NK:154:SER:HA	5:NK:157:VAL:HG22	1.95	0.48
7:aK:124:THR:O	7:aK:127:SER:OG	2.23	0.48
6:bK:106:ASP:HA	6:bK:110:ILE:HB	1.95	0.48
7:DL:110:LEU:HD22	7:DL:175:ALA:HB3	1.95	0.48
6:GL:118:ARG:HH11	6:IL:114:ARG:HH11	1.55	0.48
7:PL:117:TYR:O	7:PL:118:ILE:C	2.56	0.48
7:jL:110:LEU:HD22	7:jL:175:ALA:HB3	1.94	0.48
6:kL:33:ARG:NH2	6:mL:28:GLN:HB2	2.29	0.48
16:xL:71:GLN:HB3	29:xL:301:PEB:HBC2	1.95	0.48
6:CM:6:THR:HG22	7:DM:1:MET:HG3	1.94	0.48
6:GM:138:LEU:CB	29:GM:202:PEB:CMD	2.87	0.48
6:KM:85:ASP:OD2	6:KM:127:TYR:OH	2.32	0.48
6:MM:85:ASP:OD2	6:MM:127:TYR:OH	2.32	0.48
6:QM:9:VAL:O	6:QM:9:VAL:HG12	2.14	0.48
6:QM:54:GLU:CD	29:QM:204:PEB:HMC2	2.24	0.48
6:UM:85:ASP:OD2	6:UM:127:TYR:OH	2.32	0.48
7:XM:46:SER:HB3	6:YM:157:ASP:OD2	2.14	0.48
7:BN:113:LEU:O	7:BN:116:THR:OG1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DN:35:ASN:OD1	29:DN:202:PEB:ND	2.46	0.48
7:DN:37:ARG:NH2	7:DN:164:GLU:OE1	2.38	0.48
14:MN:158:ARG:NH1	30:MN:403:PUB:OD	2.36	0.48
21:IP:72:MET:HG3	21:IP:72:MET:O	2.13	0.48
20:PP:23:LEU:HD22	21:UP:38:VAL:HG13	1.94	0.48
22:VP:87:TRP:O	22:VP:91:LEU:HD13	2.14	0.48
22:VP:102:GLU:O	22:VP:106:LYS:HG2	2.13	0.48
25:YP:846:PRO:HG2	25:YP:849:ASN:ND2	2.22	0.48
27:aP:72:LEU:CD1	27:aP:73:PRO:HD2	2.42	0.48
21:hP:44:ILE:HD13	21:hP:149:MET:HE2	1.95	0.48
20:rP:12:ASP:HA	21:wP:94:TYR:OH	2.13	0.48
22:xP:87:TRP:O	22:xP:91:LEU:HD13	2.14	0.48
25:1P:45:SER:HA	25:1P:48:ASN:OD1	2.14	0.48
6:CQ:28:GLN:HA	6:CQ:31:ILE:HB	1.94	0.48
7:JQ:51:MET:HB3	7:JQ:134:MET:HE1	1.94	0.48
7:JQ:125:ASN:N	7:JQ:125:ASN:OD1	2.46	0.48
6:MR:43:LYS:HD2	6:MR:43:LYS:O	2.13	0.48
6:UR:114:ARG:HB3	6:UR:118:ARG:NH2	2.28	0.48
6:WR:48:HIS:O	6:WR:52:VAL:HG22	2.13	0.48
6:WR:118:ARG:HG2	6:WR:119:THR:N	2.28	0.48
6:U1:52:VAL:HG21	6:U1:87:ASP:HA	1.95	0.48
6:f1:9:VAL:HG11	7:g1:1:MET:HE1	1.96	0.48
8:e2:93:ASP:OD1	8:e2:94:GLU:N	2.46	0.48
8:e2:260:LEU:HD22	6:W7:133:TYR:CZ	2.48	0.48
6:M2:37:ARG:CD	6:M2:151:GLU:OE1	2.58	0.48
7:R2:40:ALA:O	7:R2:43:SER:OG	2.25	0.48
6:U2:138:LEU:HD13	6:U2:144:MET:HE3	1.95	0.48
6:A3:97:LEU:HD11	6:A3:152:PHE:HD1	1.78	0.48
7:B3:65:GLY:O	7:B3:68:SER:OG	2.30	0.48
7:H3:65:GLY:O	7:H3:68:SER:OG	2.30	0.48
6:B4:94:ASN:ND2	7:C4:18:TYR:HD1	2.10	0.48
7:C4:35:ASN:HD21	29:C4:202:PEB:HMC2	1.78	0.48
7:C4:59:MET:HE1	7:C4:129:ARG:O	2.11	0.48
7:E4:41:VAL:HG21	7:E4:98:LEU:HD12	1.95	0.48
6:F4:81:LYS:HZ1	29:F4:201:PEB:CHB	2.27	0.48
7:G4:59:MET:HE1	7:G4:129:ARG:O	2.11	0.48
6:H4:75:ASN:ND2	6:H4:77:GLU:HG2	2.28	0.48
6:H4:90:MET:HA	6:H4:93:VAL:CG2	2.44	0.48
6:H4:118:ARG:NH2	6:J4:114:ARG:HD3	2.28	0.48
7:I4:59:MET:HE2	7:I4:129:ARG:HG3	1.96	0.48
7:K4:46:SER:O	6:L4:161:ASN:ND2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M4:59:MET:HE1	7:M4:129:ARG:O	2.11	0.48
7:B5:91:ARG:HH21	18:MC:293:MET:CG	2.25	0.48
7:G5:101:ASP:OD2	7:G5:103:SER:OG	2.30	0.48
7:I5:7:ARG:HA	28:bP:132:PRO:CA	2.42	0.48
7:L5:72:MEN:HD2	7:L5:123:PRO:HD3	1.78	0.48
7:A5:54:ASP:OD2	7:A5:137:GLN:NE2	2.46	0.48
12:E5:185:ALA:CB	6:bI:67:LYS:HE2	2.42	0.48
13:k6:156:THR:O	13:k6:156:THR:OG1	2.30	0.48
6:h7:37:ARG:NH1	6:h7:98:VAL:O	2.43	0.48
7:B8:72:MEN:HD2	7:B8:123:PRO:HD3	1.78	0.48
7:F8:36:LYS:NZ	7:F8:158:CYS:SG	2.87	0.48
7:I8:74:TYR:CE1	15:bM:238:ARG:NH1	2.82	0.48
6:W9:140:VAL:HG13	6:W9:146:ALA:N	2.10	0.48
7:a9:12:SER:CB	7:a9:19:VAL:CG1	2.91	0.48
6:IA:32:GLN:NE2	6:IA:32:GLN:N	2.60	0.48
7:JA:8:VAL:HG21	7:JA:27:LEU:HD11	1.94	0.48
14:MA:150:SER:OG	14:MA:151:LYS:N	2.41	0.48
14:MA:229:PRO:HG3	14:MA:235:GLU:HB3	1.94	0.48
6:MB:85:ASP:OD2	6:MB:127:TYR:OH	2.32	0.48
6:jB:33:ARG:HH12	6:jB:147:GLN:OE1	1.33	0.48
29:AC:201:PEB:HAC1	7:JC:79:MET:HE2	1.95	0.48
7:FC:26:ALA:O	7:FC:29:SER:OG	2.28	0.48
6:GC:130:SER:O	6:GC:134:THR:OG1	2.30	0.48
18:MC:65:LYS:HB3	18:MC:69:PHE:HD2	1.79	0.48
7:CD:107:ASP:O	7:CD:111:ASN:ND2	2.47	0.48
6:DD:114:ARG:HD3	6:FD:118:ARG:HH11	1.77	0.48
6:FD:57:ASP:N	6:FD:83:TYR:OH	2.46	0.48
6:HD:90:MET:HA	6:HD:93:VAL:CG2	2.44	0.48
7:DE:96:ALA:HB2	7:DE:105:LEU:HB3	1.96	0.48
6:EE:33:ARG:NH2	6:GE:28:GLN:CD	2.71	0.48
6:KE:144:MET:HE3	6:KE:144:MET:HB3	1.66	0.48
18:ME:232:MET:HB2	18:ME:236:ASP:HB3	1.84	0.48
18:ME:312:LEU:HD12	18:ME:313:THR:OG1	2.14	0.48
3:BF:225:VAL:O	20:TP:75:GLU:HG2	2.10	0.48
5:JF:35:ASN:HD22	29:JF:1002:PEB:HND	1.61	0.48
5:LF:35:ASN:HD22	29:LF:1002:PEB:HND	1.61	0.48
7:eF:144:ASN:HD21	7:eF:153:PHE:HD2	1.61	0.48
7:mF:105:LEU:C	7:mF:105:LEU:HD12	2.39	0.48
7:BG:170:ASP:N	7:BG:170:ASP:OD1	2.44	0.48
32:kH:301:PMS:O1S	32:kH:301:PMS:H2	2.13	0.48
2:AI:104:THR:HG21	2:AI:238:ARG:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FI:169:VAL:O	5:FI:169:VAL:HG12	2.12	0.48
4:II:33:ARG:HA	4:II:33:ARG:HD2	1.73	0.48
5:NI:35:ASN:HD22	29:NI:1002:PEB:HND	1.62	0.48
6:OI:135:ARG:CZ	7:RI:149:ARG:HH12	2.27	0.48
7:cI:144:ASN:HD21	7:cI:153:PHE:HD2	1.61	0.48
7:eI:144:ASN:HD21	7:eI:153:PHE:HD2	1.61	0.48
6:EJ:142:ARG:NH1	29:EJ:202:PEB:NB	2.61	0.48
7:FJ:113:LEU:HD11	29:FJ:201:PEB:CMD	2.43	0.48
7:TJ:27:LEU:O	7:TJ:31:ILE:CG1	2.60	0.48
6:WJ:85:ASP:OD2	6:WJ:127:TYR:OH	2.30	0.48
6:aJ:142:ARG:NH1	29:aJ:202:PEB:NB	2.61	0.48
6:cJ:66:LEU:HB3	6:cJ:72:ALA:HB3	1.95	0.48
6:mJ:68:ASN:CB	6:mJ:71:GLU:OE2	2.60	0.48
7:pJ:110:LEU:HD22	7:pJ:175:ALA:HB3	1.95	0.48
3:BK:205:ARG:HH21	20:IP:52:LYS:CD	2.23	0.48
4:EK:13:ASP:OD1	5:FK:92:TYR:CZ	2.66	0.48
4:EK:17:ARG:O	5:FK:91:ARG:HD2	2.12	0.48
5:FK:47:ASN:CG	5:FK:141:LEU:CD2	2.86	0.48
5:NK:47:ASN:ND2	5:NK:141:LEU:HD11	2.28	0.48
6:SK:157:ASP:OD2	7:VK:46:SER:HB2	2.14	0.48
6:IK:106:ASP:HA	6:IK:110:ILE:HB	1.95	0.48
6:KL:43:LYS:HA	6:KL:43:LYS:HD2	1.67	0.48
7:fL:110:LEU:HD22	7:fL:175:ALA:HB3	1.94	0.48
6:iL:72:ALA:HB3	29:iL:201:PEB:HMA2	1.96	0.48
6:uL:142:ARG:NH1	29:uL:203:PEB:NB	2.61	0.48
17:BM:181:THR:HG21	29:BM:301:PEB:HBA2	1.96	0.48
6:CM:85:ASP:OD2	6:CM:127:TYR:OH	2.32	0.48
6:OM:55:ALA:HB1	6:OM:130:SER:HB2	1.95	0.48
6:UM:55:ALA:HB1	6:UM:130:SER:HB2	1.95	0.48
7:LN:41:VAL:HG12	7:LN:97:LEU:HD23	1.93	0.48
7:DO:38:LEU:HD23	29:DO:202:PEB:C3D	2.43	0.48
9:OO:42:LEU:HA	9:OO:47:ASN:HD21	1.77	0.48
21:DP:44:ILE:HD13	21:DP:149:MET:HE2	1.95	0.48
20:CP:85:LEU:HB3	20:CP:133:MET:SD	2.54	0.48
20:PP:8:ILE:HD13	21:UP:94:TYR:O	2.13	0.48
23:WP:41:ALA:HB1	23:WP:103:ILE:HD11	1.95	0.48
25:YP:538:MET:HE2	25:YP:544:ARG:HD2	1.95	0.48
28:bP:74:GLU:O	28:bP:78:GLN:NE2	2.46	0.48
21:dP:15:GLN:HE22	23:yP:137:GLN:CB	2.25	0.48
21:hP:77:ARG:NH1	23:yP:170:ASP:OD2	2.47	0.48
20:mP:85:LEU:HB3	20:mP:133:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:sP:44:ILE:HD13	21:sP:149:MET:HE2	1.95	0.48
21:sP:67:ARG:CG	21:sP:68:PRO:CD	2.88	0.48
24:zP:62:VAL:O	24:zP:65:ASP:HB2	2.13	0.48
25:1P:813:CYS:SG	26:2P:157:LYS:HE2	2.53	0.48
27:3P:272:MET:O	27:3P:276:THR:HG23	2.13	0.48
6:GQ:82:CYS:HA	29:GQ:201:PEB:HHA1	1.94	0.48
7:JQ:108:ARG:CZ	14:MQ:257:THR:CG2	2.77	0.48
6:KQ:144:MET:HG3	6:KQ:148:ALA:HB3	1.94	0.48
6:SR:118:ARG:HG2	6:SR:119:THR:N	2.28	0.48
7:VR:48:ALA:O	7:VR:52:VAL:HG23	2.14	0.48
7:VR:142:ILE:HD12	7:VR:165:VAL:HG11	1.95	0.48
3:B1:225:VAL:HA	3:B1:228:MET:CG	2.43	0.48
5:H1:38:LEU:HB2	29:H1:1002:PEB:C2D	2.44	0.48
6:O1:13:ASP:OD2	7:P1:108:ARG:NH1	2.47	0.48
6:h1:52:VAL:HG21	6:h1:87:ASP:HA	1.95	0.48
6:Q2:116:VAL:CG1	6:Q2:120:LEU:HD12	2.41	0.48
6:S2:116:VAL:HG13	6:S2:120:LEU:CD1	2.38	0.48
6:W2:118:ARG:HG2	6:W2:119:THR:N	2.28	0.48
7:C4:59:MET:HE2	7:C4:129:ARG:HG3	1.96	0.48
7:E4:35:ASN:HD21	29:E4:202:PEB:HMC2	1.78	0.48
6:F4:90:MET:HA	6:F4:93:VAL:CG2	2.44	0.48
6:H4:57:ASP:N	6:H4:83:TYR:OH	2.46	0.48
7:I4:58:GLY:CA	29:I4:203:PEB:C3D	2.91	0.48
6:L4:57:ASP:N	6:L4:83:TYR:OH	2.46	0.48
7:F5:101:ASP:OD2	7:F5:103:SER:OG	2.30	0.48
7:G5:141:PHE:HZ	29:G5:203:PEB:HMA3	1.79	0.48
13:k6:102:TYR:OH	6:Q7:69:PRO:CG	2.51	0.48
3:B7:170:ARG:CA	26:2P:88:THR:HG21	2.30	0.48
3:B7:228:MET:HB2	20:rP:56:GLN:HG2	1.95	0.48
7:H8:36:LYS:NZ	7:H8:158:CYS:SG	2.87	0.48
6:J8:114:ARG:NH2	6:J8:163:LEU:O	2.46	0.48
7:L8:115:GLU:HG2	13:kH:284:LEU:HD21	1.96	0.48
7:C8:84:ARG:NH1	11:D8:244:ASN:OD1	2.47	0.48
5:D9:77:ARG:NH1	31:D9:1001:CYC:O2D	2.45	0.48
6:Q9:69:PRO:CG	13:kH:102:TYR:CE2	2.90	0.48
6:h9:37:ARG:NH1	6:h9:98:VAL:O	2.43	0.48
7:BA:37:ARG:NH2	7:BA:164:GLU:OE1	2.38	0.48
6:EA:33:ARG:HH12	6:EA:147:GLN:CG	2.27	0.48
6:EA:59:CYS:O	6:EA:63:TYR:N	2.46	0.48
7:JA:167:SER:O	7:JA:171:ARG:NH1	2.46	0.48
15:bB:375:ASP:HA	21:MP:64:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UB:116:VAL:HG21	7:ZB:76:ASN:OD1	2.13	0.48
7:XB:46:SER:HB3	6:YB:157:ASP:OD2	2.14	0.48
6:hB:55:ALA:HB1	6:hB:130:SER:HB2	1.95	0.48
7:JC:96:ALA:HB2	7:JC:105:LEU:HB3	1.96	0.48
10:dD:298:TYR:HE2	5:FI:15:ARG:HG3	1.78	0.48
6:DD:57:ASP:N	6:DD:83:TYR:OH	2.46	0.48
7:ED:165:VAL:HA	7:ED:168:TYR:CD2	2.40	0.48
7:GD:39:ASP:OD1	7:GD:153:PHE:CZ	2.66	0.48
6:HD:142:ARG:CG	6:HD:143:ASP:N	2.75	0.48
7:ID:102:ALA:HB2	7:ID:105:LEU:HD11	1.94	0.48
7:KD:107:ASP:O	7:KD:111:ASN:ND2	2.47	0.48
7:KD:160:SER:O	7:KD:163:SER:OG	2.25	0.48
18:ME:280:VAL:CG1	4:CI:49:GLN:HG2	2.41	0.48
3:BF:182:PRO:HB3	31:JF:1001:CYC:HAA1	1.94	0.48
7:RF:144:ASN:HD21	7:RF:153:PHE:HD2	1.62	0.48
6:fF:158:TYR:OH	6:hF:17:ARG:NH2	2.46	0.48
6:CG:115:GLU:N	6:CG:115:GLU:OE1	2.46	0.48
7:DG:51:MET:HB3	7:DG:134:MET:HE1	1.94	0.48
6:GG:1:MET:N	14:MG:310:ASN:OD1	2.28	0.48
7:HG:61:CYS:SG	29:HG:203:PEB:HMD1	2.54	0.48
5:JI:35:ASN:HD22	29:JI:1002:PEB:HND	1.61	0.48
7:TI:144:ASN:HD21	7:TI:153:PHE:HD2	1.61	0.48
7:kI:1:MET:HE3	7:kI:104:VAL:CB	2.41	0.48
7:mI:144:ASN:HD21	7:mI:153:PHE:HD2	1.61	0.48
6:CJ:72:ALA:O	29:CJ:201:PEB:OA	2.31	0.48
7:DJ:110:LEU:HD22	7:DJ:175:ALA:HB3	1.95	0.48
7:FJ:110:LEU:HD22	7:FJ:175:ALA:HB3	1.95	0.48
6:GJ:142:ARG:NH1	29:GJ:202:PEB:NB	2.61	0.48
6:QJ:142:ARG:NH1	29:QJ:202:PEB:NB	2.61	0.48
6:SJ:67:LYS:NZ	26:2P:121:VAL:HG12	2.25	0.48
6:SJ:142:ARG:NH1	29:SJ:202:PEB:NB	2.61	0.48
7:dJ:110:LEU:HD22	7:dJ:175:ALA:HB3	1.95	0.48
6:iJ:72:ALA:HB3	29:iJ:201:PEB:HMA2	1.96	0.48
16:wJ:268:SER:OG	16:wJ:269:ASP:N	2.47	0.48
1:XK:125:LEU:HG	1:XK:195:TYR:HE1	1.66	0.48
5:HK:40:ILE:CG1	29:HK:1002:PEB:CBA	2.76	0.48
5:JK:15:ARG:HA	5:JK:15:ARG:NE	2.28	0.48
5:JK:47:ASN:ND2	5:JK:141:LEU:CD2	2.71	0.48
5:NK:40:ILE:HG12	29:NK:1002:PEB:HBA1	1.93	0.48
6:UL:142:ARG:NH1	29:UL:202:PEB:NB	2.61	0.48
6:kL:68:ASN:CB	6:kL:71:GLU:OE2	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:IL:112:GLY:O	7:IL:116:THR:OG1	2.32	0.48
7:nL:108:ARG:O	16:xL:108:ARG:NH2	2.46	0.48
16:wL:102:ALA:CB	16:wL:105:ARG:CD	2.83	0.48
16:xL:268:SER:OG	16:xL:269:ASP:N	2.47	0.48
17:BM:81:ALA:CA	7:RM:115:GLU:CD	2.87	0.48
6:EM:135:ARG:HD2	6:EM:157:ASP:CG	2.38	0.48
6:UM:116:VAL:HG21	7:ZM:76:ASN:OD1	2.13	0.48
6:dM:55:ALA:HB1	6:dM:130:SER:HB2	1.95	0.48
6:IM:85:ASP:OD2	6:IM:127:TYR:OH	2.32	0.48
6:GN:43:LYS:HZ3	6:GN:143:ASP:HB3	1.77	0.48
6:IN:52:VAL:HG11	6:IN:87:ASP:HA	1.96	0.48
6:GO:97:LEU:HD11	6:GO:152:PHE:HD1	1.78	0.48
6:IO:140:VAL:HG12	6:IO:146:ALA:CA	2.33	0.48
21:BP:128:GLN:NE2	23:WP:72:ASN:O	2.47	0.48
21:IP:87:TYR:HH	25:YP:365:SER:HG	1.58	0.48
20:KP:85:LEU:HB3	20:KP:133:MET:SD	2.54	0.48
24:XP:62:VAL:O	24:XP:65:ASP:HB2	2.14	0.48
21:qP:44:ILE:HD13	21:qP:149:MET:HE2	1.95	0.48
21:uP:72:MET:HA	21:uP:77:ARG:HB3	1.96	0.48
20:vP:91:LEU:HD13	20:vP:107:ILE:O	2.13	0.48
27:3P:286:ARG:CG	27:3P:287:LEU:HD22	2.44	0.48
7:FQ:82:CYS:HA	29:FQ:201:PEB:HHA1	1.95	0.48
7:LQ:82:CYS:HA	29:MQ:402:PEB:HHA1	1.95	0.48
6:QR:118:ARG:HG2	6:QR:119:THR:N	2.28	0.48
6:SR:116:VAL:CG1	6:SR:120:LEU:HD12	2.41	0.48
6:UR:24:LEU:HA	6:UR:27:ILE:HD12	1.95	0.48
6:d1:106:ASP:HA	6:d1:110:ILE:HB	1.95	0.48
6:j1:52:VAL:HG21	6:j1:87:ASP:HA	1.95	0.48
6:I3:140:VAL:CG1	6:I3:146:ALA:N	2.73	0.48
6:D4:57:ASP:N	6:D4:83:TYR:OH	2.46	0.48
6:F4:81:LYS:HD2	6:F4:81:LYS:O	2.13	0.48
7:G4:39:ASP:OD2	7:G4:153:PHE:HB3	2.13	0.48
7:C5:84:ARG:NH1	11:D5:244:ASN:OD1	2.47	0.48
12:E5:233:TYR:HH	29:I9:202:PEB:H3A1	1.71	0.48
13:k6:161:ILE:HD11	7:V7:139:VAL:HG11	1.95	0.48
13:k6:226:ALA:CB	4:E7:77:SER:HA	2.43	0.48
4:C7:57:GLN:NE2	4:GF:61:ASN:OD1	2.45	0.48
5:F7:113:LEU:HD23	5:F7:171:VAL:CG2	2.36	0.48
7:R7:42:ASN:O	7:R7:46:SER:OG	2.30	0.48
7:K8:142:ILE:HD12	7:K8:142:ILE:HA	1.68	0.48
1:X9:312:THR:OG1	4:I9:15:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D9:16:GLY:HA3	5:F9:69:PRO:HB3	1.96	0.48
6:W9:140:VAL:HG11	6:W9:146:ALA:N	2.13	0.48
7:DA:78:ARG:HD3	29:DA:201:PEB:HMB1	1.96	0.48
7:JA:78:ARG:HD3	29:JA:201:PEB:HMB1	1.96	0.48
17:BB:123:LYS:HE2	29:BB:301:PEB:HBC2	1.78	0.48
6:EB:55:ALA:HB1	6:EB:130:SER:HB2	1.95	0.48
6:GB:85:ASP:OD2	6:GB:127:TYR:OH	2.32	0.48
6:KB:21:ASN:OD1	6:MB:155:TYR:CE1	2.67	0.48
10:dD:314:VAL:O	10:dD:317:VAL:HG22	2.14	0.48
10:dD:332:VAL:HG12	10:dD:336:LYS:HZ3	1.79	0.48
6:BD:75:ASN:ND2	6:BD:77:GLU:HG2	2.28	0.48
7:ED:36:LYS:HZ3	29:ED:201:PEB:C2B	2.27	0.48
6:HD:137:ARG:NH2	29:HD:202:PEB:O1B	2.47	0.48
7:ID:39:ASP:OD1	29:ID:202:PEB:H1D1	2.14	0.48
7:KD:41:VAL:HG22	7:KD:97:LEU:HD21	1.96	0.48
6:LD:81:LYS:HD2	6:LD:81:LYS:O	2.13	0.48
7:BE:8:VAL:O	7:BE:12:SER:OG	2.31	0.48
6:GE:102:THR:O	6:GE:102:THR:OG1	2.29	0.48
7:LE:64:PRO:HG2	4:CI:76:SER:O	2.14	0.48
5:HF:169:VAL:HG12	5:HF:169:VAL:O	2.12	0.48
6:SF:30:ASN:O	6:SF:34:SER:OG	2.30	0.48
7:aF:146:ALA:O	7:aF:150:LYS:NZ	2.42	0.48
6:CG:150:VAL:O	6:CG:153:SER:OG	2.29	0.48
6:EG:144:MET:HG3	6:EG:148:ALA:HB3	1.94	0.48
6:IG:150:VAL:O	6:IG:153:SER:OG	2.29	0.48
7:JG:108:ARG:CD	14:MG:257:THR:HG23	2.25	0.48
7:LG:82:CYS:HA	29:LG:201:PEB:HHA1	1.95	0.48
13:kH:282:ASP:OD1	13:kH:283:LYS:N	2.47	0.48
1:XI:312:THR:HG22	1:XI:314:GLY:H	1.78	0.48
2:AI:149:SER:O	2:AI:149:SER:OG	2.32	0.48
3:BI:102:ASN:HB3	5:NI:111:ASN:HB3	1.95	0.48
7:RI:144:ASN:HD21	7:RI:153:PHE:HD2	1.62	0.48
7:KI:144:ASN:HD21	7:KI:153:PHE:HD2	1.61	0.48
6:gJ:85:ASP:OD2	6:gJ:127:TYR:OH	2.30	0.48
6:kJ:114:ARG:HH22	16:xJ:210:ILE:CG1	2.26	0.48
6:qJ:94:ASN:ND2	7:rJ:18:TYR:HB3	2.28	0.48
7:rJ:110:LEU:HD22	7:rJ:175:ALA:HB3	1.95	0.48
6:CL:43:LYS:HA	6:CL:43:LYS:HD2	1.67	0.48
7:NL:110:LEU:HD22	7:NL:175:ALA:HB3	1.94	0.48
6:OL:142:ARG:NH1	29:OL:202:PEB:NB	2.61	0.48
6:QL:85:ASP:OD2	6:QL:127:TYR:OH	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aL:85:ASP:OD2	6:aL:127:TYR:OH	2.30	0.48
6:cL:142:ARG:NH1	29:cL:202:PEB:NB	2.61	0.48
6:eL:142:ARG:NH1	29:eL:202:PEB:NB	2.61	0.48
6:mL:68:ASN:CG	6:mL:71:GLU:OE2	2.48	0.48
7:rL:110:LEU:HD22	7:rL:175:ALA:HB3	1.95	0.48
15:bM:370:TYR:HD1	21:oP:128:GLN:HG2	1.79	0.48
7:RM:61:CYS:CB	29:RM:203:PEB:HBD2	2.19	0.48
6:UM:135:ARG:HD2	6:UM:157:ASP:CG	2.38	0.48
6:YM:9:VAL:O	6:YM:9:VAL:HG12	2.14	0.48
6:GN:118:ARG:HG3	6:IN:114:ARG:HG2	1.95	0.48
6:AO:1:MET:SD	6:AO:1:MET:N	2.80	0.48
21:DP:72:MET:HA	21:DP:77:ARG:CB	2.43	0.48
21:FP:63:SER:HG	21:FP:65:ILE:CG1	2.26	0.48
20:GP:85:LEU:HB3	20:GP:133:MET:SD	2.54	0.48
21:IP:2:GLN:HB2	21:IP:6:THR:HB	1.94	0.48
21:QP:2:GLN:HB2	21:QP:6:THR:HB	1.94	0.48
27:aP:217:THR:OG1	27:aP:219:ASP:OD1	2.32	0.48
20:pP:85:LEU:HB3	20:pP:133:MET:SD	2.54	0.48
21:sP:27:LEU:CD1	20:tP:37:LEU:HD21	2.43	0.48
20:tP:85:LEU:HB3	20:tP:133:MET:SD	2.54	0.48
25:1P:148:SER:HB3	31:1P:1002:CYC:H3C	1.96	0.48
25:1P:481:ILE:HG23	31:1P:1001:CYC:HAA1	1.95	0.48
7:BQ:51:MET:HB3	7:BQ:134:MET:HE1	1.95	0.48
7:BQ:145:THR:O	29:BQ:203:PEB:HBB2	2.14	0.48
6:IQ:28:GLN:HA	6:IQ:31:ILE:HB	1.94	0.48
6:IQ:115:GLU:OE1	6:IQ:115:GLU:N	2.46	0.48
8:eR:237:SER:OG	8:eR:238:ASP:N	2.47	0.48
6:QR:116:VAL:CG1	6:QR:120:LEU:HD12	2.41	0.48
6:UR:138:LEU:C	6:UR:138:LEU:CD1	2.86	0.48
6:WR:140:VAL:CG1	6:WR:146:ALA:HA	2.42	0.48
3:B1:62:LYS:NZ	4:E1:117:GLU:OE2	2.35	0.48
5:H1:65:GLN:HB3	7:P1:68:SER:OG	2.13	0.48
6:Q1:52:VAL:HG21	6:Q1:87:ASP:HA	1.95	0.48
8:e2:186:GLY:HA2	6:W2:15:ALA:HA	1.95	0.48
6:Q2:92:LEU:C	6:Q2:105:LEU:HD21	2.39	0.48
6:S2:63:TYR:HB3	6:S2:65:TYR:CE1	2.49	0.48
7:G4:41:VAL:HG22	7:G4:97:LEU:HD21	1.96	0.48
7:G4:71:GLY:C	7:G4:73:CYS:H	2.21	0.48
6:H4:115:GLU:OE2	7:M4:80:ALA:HB1	2.14	0.48
7:K4:148:GLU:OE2	29:K4:203:PEB:NA	2.47	0.48
7:M4:54:ASP:HB3	29:M4:203:PEB:HAA2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F5:36:LYS:NZ	7:F5:158:CYS:SG	2.87	0.48
7:H5:36:LYS:NZ	7:H5:158:CYS:SG	2.87	0.48
7:H5:72:MEN:HD2	7:H5:123:PRO:HD3	1.78	0.48
7:I5:158:CYS:SG	29:I5:202:PEB:H2A1	2.54	0.48
6:J5:96:CYS:HA	6:J5:99:VAL:HB	1.95	0.48
13:k6:282:ASP:OD1	13:k6:283:LYS:N	2.47	0.48
6:O7:37:ARG:NH1	6:O7:98:VAL:O	2.43	0.48
7:I8:9:VAL:HG22	28:4P:132:PRO:O	2.14	0.48
6:J8:96:CYS:HA	6:J8:99:VAL:HB	1.95	0.48
7:K8:104:VAL:HG12	7:K8:108:ARG:CG	2.42	0.48
7:A8:79:MET:HE2	11:D8:233:ALA:HB1	1.94	0.48
12:E8:185:ALA:HB3	6:bF:67:LYS:HZ3	1.77	0.48
1:X9:348:GLN:HB3	1:X9:352:LYS:HE2	1.95	0.48
5:L9:63:GLN:CD	27:3P:284:VAL:HG23	2.38	0.48
7:DA:128:ILE:HA	7:DA:131:VAL:HG12	1.96	0.48
7:FA:78:ARG:HD3	29:FA:201:PEB:HMB1	1.96	0.48
7:FA:167:SER:O	7:FA:171:ARG:NH1	2.46	0.48
6:IA:30:ASN:O	6:IA:34:SER:CB	2.61	0.48
6:KA:149:GLY:O	6:KA:153:SER:OG	2.26	0.48
7:LA:158:CYS:HB3	29:LA:202:PEB:HBA1	1.57	0.48
14:MA:153:MET:SD	14:MA:270:ASN:ND2	2.81	0.48
14:MA:186:TYR:HD1	14:MA:189:LYS:HD2	1.79	0.48
6:WB:29:GLY:HA3	6:YB:25:GLU:O	2.14	0.48
6:hB:54:GLU:HG3	6:hB:133:TYR:CE2	2.31	0.48
6:KC:102:THR:O	6:KC:102:THR:OG1	2.29	0.48
10:dD:325:VAL:HB	10:dD:329:MET:CE	2.44	0.48
7:CD:36:LYS:HZ1	29:CD:202:PEB:HBB2	1.79	0.48
7:ED:75:THR:HA	29:LD:201:PEB:HBD2	1.95	0.48
7:ID:59:MET:HE2	7:ID:129:ARG:HG3	1.96	0.48
7:ID:114:LYS:NZ	6:WI:83:TYR:CD2	2.82	0.48
7:MD:59:MET:HE2	7:MD:129:ARG:HG3	1.96	0.48
6:AE:102:THR:HG21	6:AE:158:TYR:CE2	2.48	0.48
7:HE:33:ASP:HB2	7:HE:36:LYS:HB2	1.94	0.48
7:JE:96:ALA:HB2	7:JE:105:LEU:HB3	1.96	0.48
2:AF:227:GLN:HA	2:AF:230:VAL:HG12	1.94	0.48
29:FF:1002:PEB:HMC1	4:KF:145:GLN:HE21	1.78	0.48
7:YF:146:ALA:O	7:YF:150:LYS:NZ	2.42	0.48
7:BG:133:ILE:HA	29:BG:203:PEB:HBC1	1.95	0.48
7:DG:82:CYS:HA	29:DG:201:PEB:HHA1	1.95	0.48
6:EG:2:LYS:HZ2	14:MG:193:HIS:HB3	1.79	0.48
7:FG:51:MET:HB3	7:FG:134:MET:HE1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IG:33:ARG:O	6:IG:37:ARG:N	2.34	0.48
7:LG:170:ASP:N	7:LG:170:ASP:OD1	2.44	0.48
14:MG:234:GLU:HG3	14:MG:319:PHE:HB3	1.96	0.48
13:kH:183:TYR:OH	13:kH:202:LYS:HE3	2.14	0.48
1:XI:134:PHE:HD1	1:XI:146:LEU:HD23	1.79	0.48
7:mI:1:MET:SD	7:mI:108:ARG:NH2	2.83	0.48
6:AJ:39:GLU:OE1	6:AJ:145:SER:HB3	2.13	0.48
6:AJ:142:ARG:NH1	29:AJ:202:PEB:NB	2.61	0.48
6:IJ:75:ASN:ND2	6:IJ:75:ASN:N	2.60	0.48
6:aJ:5:ILE:HD12	7:bJ:3:ASP:OD2	2.14	0.48
7:fJ:110:LEU:HD22	7:fJ:175:ALA:HB3	1.94	0.48
7:jJ:110:LEU:HD22	7:jJ:175:ALA:HB3	1.94	0.48
7:nJ:110:LEU:HD22	7:nJ:175:ALA:HB3	1.94	0.48
29:nJ:201:PEB:HBD2	16:xJ:108:ARG:NH2	2.28	0.48
16:wJ:39:LEU:CD2	17:yJ:200:PHE:CD1	2.96	0.48
16:wJ:102:ALA:CA	16:wJ:105:ARG:NE	2.74	0.48
4:CK:142:LEU:HB3	4:CK:147:ALA:HB2	1.96	0.48
6:OK:106:ASP:HA	6:OK:110:ILE:HB	1.95	0.48
6:hK:106:ASP:HA	6:hK:110:ILE:HB	1.95	0.48
6:jK:106:ASP:HA	6:jK:110:ILE:HB	1.95	0.48
7:FL:139:VAL:HG11	25:1P:516:SER:O	2.14	0.48
7:PL:110:LEU:HD22	7:PL:175:ALA:HB3	1.95	0.48
6:SL:51:VAL:HG22	6:SL:52:VAL:H	1.70	0.48
6:SL:74:GLU:N	6:SL:78:LYS:HG3	2.27	0.48
6:SL:142:ARG:NH1	29:SL:202:PEB:NB	2.61	0.48
7:TL:25:GLN:HE21	25:1P:521:THR:HG21	0.79	0.48
7:fL:33:ASP:HB3	7:fL:36:LYS:HE3	1.96	0.48
7:pL:113:LEU:HA	16:xL:235:TYR:OH	2.13	0.48
19:zL:366:ARG:CD	21:LP:62:TYR:HD2	2.10	0.48
6:QM:85:ASP:OD2	6:QM:127:TYR:OH	2.32	0.48
6:QM:108:TRP:HA	7:VM:75:THR:HG23	1.95	0.48
6:SM:9:VAL:O	6:SM:9:VAL:HG12	2.14	0.48
6:UM:9:VAL:HG12	6:UM:9:VAL:O	2.14	0.48
6:WM:135:ARG:HD2	6:WM:157:ASP:CG	2.38	0.48
6:aM:135:ARG:HD2	6:aM:157:ASP:CG	2.38	0.48
6:jM:9:VAL:HG12	6:jM:9:VAL:O	2.14	0.48
6:IM:53:LYS:CE	6:IM:53:LYS:CA	2.86	0.48
6:AN:52:VAL:HG11	6:AN:87:ASP:HA	1.96	0.48
6:EN:33:ARG:HH12	6:EN:147:GLN:CG	2.27	0.48
6:IN:2:LYS:HZ3	14:MN:253:GLY:HA3	1.79	0.48
7:JN:128:ILE:HA	7:JN:131:VAL:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LN:128:ILE:HA	7:LN:131:VAL:HG12	1.96	0.48
7:DO:42:ASN:O	7:DO:46:SER:OG	2.26	0.48
7:LO:37:ARG:NH1	7:LO:97:LEU:O	2.46	0.48
21:DP:47:ASN:HB3	21:DP:50:THR:CG2	2.44	0.48
21:BP:128:GLN:CD	23:WP:73:ALA:HA	2.38	0.48
23:WP:102:ILE:HG13	23:WP:160:PRO:HG2	1.96	0.48
21:dP:87:TYR:OH	25:1P:492:GLY:HA3	2.14	0.48
21:fP:1:MET:HE1	20:gP:8:ILE:CG2	2.43	0.48
21:nP:44:ILE:HD13	21:nP:149:MET:HE2	1.95	0.48
21:qP:87:TYR:OH	24:zP:87:LEU:HD13	2.14	0.48
20:rP:9:VAL:HG13	21:wP:1:MET:CE	2.43	0.48
22:xP:53:LEU:CD1	22:xP:56:LYS:HD3	2.42	0.48
27:3P:99:LEU:HD23	27:3P:105:GLY:HA2	1.95	0.48
27:3P:246:GLY:O	27:3P:249:VAL:HB	2.14	0.48
28:4P:220:LYS:HG2	28:4P:221:PRO:HD2	1.96	0.48
7:DQ:82:CYS:HA	29:DQ:201:PEB:HHA1	1.95	0.48
14:MQ:234:GLU:HG3	14:MQ:319:PHE:HB3	1.96	0.48
6:SR:48:HIS:O	6:SR:52:VAL:HG22	2.13	0.48
6:WR:65:TYR:CE1	6:WR:66:LEU:HD13	2.37	0.48
7:XR:56:VAL:HG21	7:XR:83:LEU:HD23	1.94	0.48
4:C1:11:THR:CG2	4:M1:7:GLU:HG2	2.41	0.48
5:H1:152:ASP:HB2	11:D8:219:TYR:CG	2.46	0.48
7:R1:47:ASN:OD1	7:R1:149:ARG:NH1	2.47	0.48
6:S1:25:GLU:HG2	6:U1:33:ARG:HG3	1.96	0.48
7:e1:47:ASN:OD1	7:e1:149:ARG:NH1	2.47	0.48
6:Q2:92:LEU:CB	6:Q2:105:LEU:HD23	2.34	0.48
6:S2:81:LYS:HD3	29:S2:201:PEB:C3B	2.41	0.48
6:U2:105:LEU:HD23	6:U2:158:TYR:HD2	1.78	0.48
6:W2:92:LEU:C	6:W2:105:LEU:HD21	2.39	0.48
6:K3:53:LYS:HD3	6:K3:53:LYS:C	2.39	0.48
6:B4:4:VAL:HG11	6:B4:26:SER:HB2	1.96	0.48
6:B4:15:ALA:HB3	6:B4:17:ARG:HD2	1.88	0.48
6:B4:17:ARG:CZ	6:B4:17:ARG:HB3	2.42	0.48
7:G4:35:ASN:HD21	29:G4:202:PEB:HMC2	1.78	0.48
7:K4:71:GLY:C	7:K4:73:CYS:H	2.21	0.48
7:B5:108:ARG:CD	18:MC:266:GLY:C	2.87	0.48
7:G5:36:LYS:NZ	7:G5:158:CYS:SG	2.87	0.48
7:I5:1:MET:O	28:bP:130:LEU:HD21	2.14	0.48
7:I5:24:LEU:HA	19:zL:291:ILE:CG2	2.44	0.48
7:I5:27:LEU:C	19:zL:294:GLY:HA3	2.38	0.48
11:D5:219:TYR:CE2	5:HK:152:ASP:CG	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A7:47:ASN:O	2:A7:48:ARG:NH1	2.44	0.48
6:j7:53:LYS:HA	6:j7:53:LYS:HD3	1.71	0.48
7:I8:24:LEU:N	7:I8:24:LEU:CD2	2.73	0.48
7:K8:157:ASP:OD2	7:K8:159:THR:HG22	2.14	0.48
1:X9:324:ASN:O	4:C9:16:GLY:HA3	2.14	0.48
3:B9:7:LYS:NZ	4:I9:1:MET:H3	2.12	0.48
5:H9:78:ARG:HG3	5:H9:78:ARG:HH11	1.73	0.48
7:a9:147:THR:HA	8:eR:287:ALA:HB2	1.96	0.48
6:l9:37:ARG:NH1	6:l9:98:VAL:O	2.43	0.48
6:AA:52:VAL:HG11	6:AA:87:ASP:HA	1.96	0.48
7:BA:128:ILE:HA	7:BA:131:VAL:HG12	1.96	0.48
7:HA:78:ARG:HD3	29:HA:201:PEB:HMB1	1.96	0.48
6:KA:52:VAL:HG11	6:KA:87:ASP:HA	1.96	0.48
6:KB:85:ASP:OD2	6:KB:127:TYR:OH	2.32	0.48
6:MB:55:ALA:HB1	6:MB:130:SER:HB2	1.95	0.48
6:WB:135:ARG:HD2	6:WB:157:ASP:CG	2.38	0.48
6:aB:85:ASP:OD2	6:aB:127:TYR:OH	2.32	0.48
6:EC:33:ARG:O	6:EC:34:SER:C	2.55	0.48
10:dD:93:ARG:O	10:dD:95:SER:N	2.47	0.48
7:ED:7:ARG:HE	7:ED:7:ARG:CA	2.26	0.48
6:FD:84:ARG:HG2	6:FD:85:ASP:N	2.29	0.48
7:ID:71:GLY:C	7:ID:73:CYS:H	2.21	0.48
7:KD:36:LYS:HZ1	29:KD:202:PEB:HBB2	1.78	0.48
6:LD:55:ALA:O	6:LD:58:ALA:N	2.45	0.48
7:MD:71:GLY:C	7:MD:73:CYS:H	2.21	0.48
6:EE:33:ARG:O	6:EE:34:SER:C	2.56	0.48
7:FE:33:ASP:HB2	7:FE:36:LYS:HB2	1.94	0.48
18:ME:240:ARG:NE	6:SI:133:TYR:CE1	2.82	0.48
1:XF:312:THR:HG22	1:XF:314:GLY:H	1.78	0.48
6:CG:28:GLN:HA	6:CG:31:ILE:HB	1.94	0.48
7:DG:136:ALA:HB3	29:DG:203:PEB:O1C	2.14	0.48
7:FG:141:PHE:CE2	29:FG:203:PEB:C4A	2.97	0.48
7:HG:137:GLN:NE2	29:HG:203:PEB:C1B	2.77	0.48
7:LG:50:CYS:SG	29:LG:203:PEB:H2A1	2.54	0.48
13:kH:94:LEU:HD13	13:kH:120:ILE:HD13	1.94	0.48
5:FI:35:ASN:HD22	29:FI:1002:PEB:HND	1.62	0.48
7:PI:3:ASP:OD1	7:PI:3:ASP:N	2.46	0.48
6:OJ:142:ARG:NH1	29:OJ:202:PEB:NB	2.61	0.48
7:RJ:1:MET:HE3	7:RJ:1:MET:HB2	1.80	0.48
6:WJ:72:ALA:O	6:WJ:78:LYS:HD2	2.12	0.48
6:kJ:95:TYR:OH	7:IJ:13:ASP:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:230:GLY:HA2	19:zJ:261:GLY:HA2	1.96	0.48
5:DK:25:ASP:HA	5:DK:28:SER:OG	2.14	0.48
5:HK:38:LEU:HB2	29:HK:1002:PEB:C2D	2.44	0.48
6:QK:52:VAL:HG21	6:QK:87:ASP:HA	1.95	0.48
7:RK:47:ASN:OD1	7:RK:149:ARG:NH1	2.47	0.48
6:ZK:106:ASP:HA	6:ZK:110:ILE:HB	1.95	0.48
7:kK:47:ASN:OD1	7:kK:149:ARG:NH1	2.47	0.48
6:CL:142:ARG:NH1	29:CL:202:PEB:NB	2.61	0.48
7:FL:15:LYS:HE2	7:FL:15:LYS:HB2	1.65	0.48
7:LL:33:ASP:HB3	7:LL:36:LYS:HE3	1.96	0.48
7:RL:110:LEU:HD23	7:RL:113:LEU:CD2	2.44	0.48
6:WL:66:LEU:HD23	6:WL:71:GLU:HG3	1.94	0.48
7:bL:1:MET:HE3	7:bL:1:MET:HB2	1.80	0.48
6:qL:43:LYS:HA	6:qL:43:LYS:HD2	1.67	0.48
19:zL:231:GLY:N	19:zL:260:ASP:O	2.46	0.48
19:zL:329:ILE:HG23	20:NP:66:VAL:CG2	2.42	0.48
15:bM:190:ASP:OD2	17:BM:69:PHE:N	2.39	0.48
15:bM:340:GLU:O	15:bM:349:LYS:CG	2.47	0.48
17:BM:181:THR:HG21	29:BM:301:PEB:CBA	2.44	0.48
6:KM:21:ASN:OD1	6:MM:155:TYR:CE1	2.67	0.48
6:MM:55:ALA:HB1	6:MM:130:SER:HB2	1.95	0.48
7:NM:170:ASP:HA	28:4P:184:THR:HG22	1.95	0.48
6:YM:55:ALA:HB1	6:YM:130:SER:HB2	1.95	0.48
14:MN:223:CYS:O	14:MN:324:SER:OG	2.31	0.48
9:OO:298:PRO:O	9:OO:301:THR:OG1	2.32	0.48
20:EP:85:LEU:HB3	20:EP:133:MET:SD	2.54	0.48
21:OP:44:ILE:HD13	21:OP:149:MET:HE2	1.95	0.48
21:OP:47:ASN:HB3	21:OP:50:THR:CG2	2.44	0.48
20:RP:110:VAL:O	21:UP:75:THR:OG1	2.15	0.48
21:SP:47:ASN:HB3	21:SP:50:THR:CG2	2.44	0.48
22:VP:138:VAL:CG1	22:VP:146:GLU:HG3	2.44	0.48
25:YP:515:ASN:C	25:YP:517:ASN:N	2.70	0.48
27:aP:286:ARG:CG	27:aP:287:LEU:HD22	2.43	0.48
20:eP:85:LEU:HB3	20:eP:133:MET:SD	2.54	0.48
21:fP:14:VAL:CG2	25:1P:666:ASN:HB3	2.44	0.48
21:jP:47:ASN:HB3	21:jP:50:THR:CG2	2.44	0.48
21:uP:44:ILE:HD13	21:uP:149:MET:HE2	1.95	0.48
21:wP:47:ASN:HB3	21:wP:50:THR:CG2	2.44	0.48
22:xP:72:ALA:HA	22:xP:77:GLN:HB3	1.96	0.48
23:yP:140:LYS:HD2	23:yP:158:ALA:HA	1.96	0.48
7:DQ:54:ASP:HB2	29:DQ:203:PEB:HAA2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GQ:54:GLU:OE1	6:GQ:137:ARG:NH2	2.37	0.48
7:LQ:75:THR:HB	7:LQ:78:ARG:HE	1.78	0.48
14:MQ:313:GLU:O	14:MQ:316:THR:OG1	2.27	0.48
5:D1:40:ILE:CD1	5:D1:156:LEU:HB3	2.44	0.47
6:O1:52:VAL:HG21	6:O1:87:ASP:HA	1.95	0.47
7:P1:97:LEU:CD1	7:P1:165:VAL:HG23	2.40	0.47
6:S1:106:ASP:HA	6:S1:110:ILE:HB	1.95	0.47
7:Y1:47:ASN:OD1	7:Y1:149:ARG:NH1	2.47	0.47
6:Z1:54:GLU:OE1	6:Z1:137:ARG:NH2	2.47	0.47
6:j1:52:VAL:CG1	6:j1:86:VAL:HG12	2.33	0.47
7:m1:47:ASN:OD1	7:m1:149:ARG:NH1	2.47	0.47
8:e2:85:PRO:CB	7:N2:107:ASP:HB2	2.43	0.47
8:e2:237:SER:OG	8:e2:238:ASP:N	2.47	0.47
6:M2:63:TYR:HB3	6:M2:65:TYR:CE1	2.49	0.47
7:D3:38:LEU:HD23	29:D3:202:PEB:C3D	2.43	0.47
10:d4:93:ARG:O	10:d4:95:SER:N	2.47	0.47
10:d4:314:VAL:O	10:d4:317:VAL:HG22	2.14	0.47
6:B4:137:ARG:HH22	29:B4:202:PEB:HNA	1.60	0.47
7:C4:133:ILE:HD11	29:C4:203:PEB:CHC	2.43	0.47
7:E4:107:ASP:O	7:E4:111:ASN:ND2	2.47	0.47
6:L4:90:MET:HA	6:L4:93:VAL:CG2	2.44	0.47
7:L5:36:LYS:NZ	7:L5:158:CYS:SG	2.87	0.47
4:C7:68:GLN:OE1	4:GF:138:ASN:HB3	2.13	0.47
6:U7:53:LYS:HA	6:U7:53:LYS:HD3	1.71	0.47
7:a7:29:SER:OG	12:E8:43:ALA:HB3	2.13	0.47
7:i7:122:VAL:HG13	29:i7:201:PEB:C1A	2.44	0.47
7:B8:36:LYS:NZ	7:B8:158:CYS:SG	2.87	0.47
7:F8:141:PHE:HZ	29:F8:203:PEB:HMA3	1.79	0.47
7:G8:72:MEN:HD2	7:G8:123:PRO:HD3	1.78	0.47
7:L8:83:LEU:HD13	13:kH:231:ALA:O	2.14	0.47
6:S9:37:ARG:NH1	6:S9:98:VAL:O	2.43	0.47
6:GA:43:LYS:HZ3	6:GA:143:ASP:HB3	1.79	0.47
6:EB:9:VAL:O	6:EB:9:VAL:HG12	2.14	0.47
6:EB:54:GLU:OE1	29:EB:202:PEB:C2C	2.62	0.47
6:GB:55:ALA:HB1	6:GB:130:SER:HB2	1.95	0.47
6:UB:9:VAL:HG12	6:UB:9:VAL:O	2.14	0.47
6:jB:9:VAL:HG12	6:jB:9:VAL:O	2.14	0.47
7:DC:96:ALA:HB2	7:DC:105:LEU:HB3	1.96	0.47
10:dD:68:LEU:HD23	10:dD:71:ARG:HH11	1.79	0.47
10:dD:132:GLY:HA2	7:ED:108:ARG:O	2.14	0.47
10:dD:278:GLY:HA3	6:WI:69:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:59:MET:HE1	7:ED:129:ARG:O	2.11	0.47
7:ED:71:GLY:C	7:ED:73:CYS:H	2.21	0.47
7:GD:51:MET:CE	7:GD:141:PHE:HE2	2.22	0.47
6:JD:57:ASP:N	6:JD:83:TYR:OH	2.46	0.47
7:KD:90:LEU:HD13	7:KD:134:MET:SD	2.53	0.47
6:LD:114:ARG:O	6:LD:118:ARG:NH2	2.47	0.47
6:CE:81:LYS:NZ	29:CE:201:PEB:O2C	2.41	0.47
6:EE:81:LYS:NZ	29:EE:201:PEB:O2C	2.41	0.47
3:BF:17:VAL:HG11	31:LF:1001:CYC:HBA1	1.96	0.47
4:CF:117:GLU:OE1	4:CF:120:ARG:NH2	2.46	0.47
4:EF:145:GLN:NE2	29:LF:1002:PEB:HMC1	2.29	0.47
4:GF:29:GLY:HA3	4:IF:25:GLN:O	2.14	0.47
4:GF:117:GLU:OE1	4:GF:120:ARG:NH2	2.45	0.47
7:RF:135:LYS:NZ	7:RF:170:ASP:OD1	2.43	0.47
7:gF:144:ASN:HD21	7:gF:153:PHE:HD2	1.61	0.47
7:iF:144:ASN:HD21	7:iF:153:PHE:HD2	1.61	0.47
6:CG:19:PRO:HD3	7:DG:91:ARG:HA	1.96	0.47
7:HG:125:ASN:N	7:HG:125:ASN:OD1	2.46	0.47
7:JG:147:THR:HG23	29:JG:203:PEB:CGB	2.44	0.47
5:JI:111:ASN:CG	27:aP:124:TRP:CZ3	2.92	0.47
5:LI:72:MEN:HE21	27:aP:114:PRO:CD	2.44	0.47
7:YI:144:ASN:HD21	7:YI:153:PHE:HD2	1.61	0.47
6:CJ:142:ARG:NH1	29:CJ:202:PEB:NB	2.61	0.47
6:IJ:43:LYS:HA	6:IJ:43:LYS:HD2	1.67	0.47
6:MJ:85:ASP:OD2	6:MJ:127:TYR:OH	2.30	0.47
7:RJ:110:LEU:HD23	7:RJ:113:LEU:CD2	2.44	0.47
6:YJ:85:ASP:OD2	6:YJ:127:TYR:OH	2.30	0.47
7:bJ:110:LEU:HD22	7:bJ:175:ALA:HB3	1.95	0.47
6:kJ:116:VAL:HG23	7:tJ:80:ALA:HB2	1.96	0.47
7:lJ:33:ASP:HB3	7:lJ:36:LYS:HE3	1.96	0.47
6:oJ:147:GLN:OE1	29:rJ:202:PEB:HMC2	2.14	0.47
6:qJ:142:ARG:NH1	29:qJ:202:PEB:NB	2.61	0.47
6:sJ:85:ASP:OD2	6:sJ:127:TYR:OH	2.30	0.47
16:wJ:71:GLN:HB3	29:wJ:301:PEB:HBC2	1.95	0.47
4:CK:143:SER:O	4:CK:147:ALA:HB3	2.14	0.47
5:LK:25:ASP:HA	5:LK:28:SER:OG	2.14	0.47
6:bK:52:VAL:HG21	6:bK:87:ASP:HA	1.94	0.47
6:fK:9:VAL:HG11	7:gK:1:MET:HE1	1.96	0.47
7:gK:7:ARG:HD2	14:MN:96:LYS:N	2.22	0.47
6:IL:75:ASN:ND2	6:IL:75:ASN:N	2.60	0.47
6:SL:64:ALA:HB2	20:PP:144:GLU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:gL:49:GLU:OE1	6:gL:49:GLU:N	2.35	0.47
7:nL:110:LEU:HD22	7:nL:175:ALA:HB3	1.94	0.47
16:wL:71:GLN:HB3	29:wL:301:PEB:HBC2	1.95	0.47
19:zL:230:GLY:HA2	19:zL:261:GLY:HA2	1.96	0.47
19:zL:332:LEU:CA	20:NP:67:SER:OG	2.62	0.47
15:bM:31:VAL:HA	6:MM:118:ARG:HH21	1.79	0.47
15:bM:333:ARG:CG	15:bM:333:ARG:NH1	2.72	0.47
15:bM:343:PHE:CD2	20:mP:67:SER:CB	2.97	0.47
7:RM:56:VAL:O	7:RM:60:ILE:HG12	2.14	0.47
6:UM:119:THR:HG21	7:ZM:83:LEU:HD13	1.96	0.47
6:WM:29:GLY:HA3	6:YM:25:GLU:O	2.14	0.47
6:dM:13:ASP:OD1	7:eM:92:TYR:OH	2.23	0.47
6:dM:135:ARG:HD2	6:dM:157:ASP:CG	2.38	0.47
6:fM:55:ALA:HB1	6:fM:130:SER:HB2	1.95	0.47
6:hM:135:ARG:HD2	6:hM:157:ASP:CG	2.38	0.47
7:BN:78:ARG:HD3	29:BN:201:PEB:HMB1	1.96	0.47
7:FN:78:ARG:HD3	29:FN:201:PEB:HMB1	1.96	0.47
7:HN:128:ILE:HA	7:HN:131:VAL:HG12	1.96	0.47
6:IN:14:ALA:HA	14:MN:260:ALA:HB1	1.96	0.47
6:IN:89:TYR:OH	6:IN:117:TYR:OH	2.27	0.47
7:DO:37:ARG:NH1	7:DO:97:LEU:O	2.46	0.47
21:FP:47:ASN:HB3	21:FP:50:THR:CG2	2.44	0.47
21:IP:47:ASN:HB3	21:IP:50:THR:CG2	2.44	0.47
21:MP:44:ILE:HD13	21:MP:149:MET:HE2	1.95	0.47
21:MP:47:ASN:HB3	21:MP:50:THR:CG2	2.44	0.47
20:NP:85:LEU:HB3	20:NP:133:MET:SD	2.54	0.47
20:RP:85:LEU:HB3	20:RP:133:MET:SD	2.54	0.47
20:TP:85:LEU:HB3	20:TP:133:MET:SD	2.54	0.47
22:VP:49:GLU:OE1	22:VP:140:VAL:HG11	2.13	0.47
28:bP:40:ARG:NH1	28:bP:40:ARG:CG	2.73	0.47
28:bP:131:ARG:NH2	28:bP:218:PRO:HG3	2.29	0.47
21:dP:47:ASN:HB3	21:dP:50:THR:CG2	2.44	0.47
21:fP:17:LYS:O	20:gP:90:ARG:HD2	2.13	0.47
21:fP:44:ILE:HD13	21:fP:149:MET:HE2	1.95	0.47
20:iP:85:LEU:HB3	20:iP:133:MET:SD	2.54	0.47
20:mP:103:PRO:HG3	28:4P:50:TYR:CZ	2.49	0.47
28:4P:46:THR:CB	28:4P:58:GLY:H	2.26	0.47
7:BQ:75:THR:HB	7:BQ:78:ARG:HE	1.78	0.47
6:EQ:115:GLU:OE1	6:EQ:115:GLU:N	2.46	0.47
6:MR:24:LEU:HA	6:MR:27:ILE:HD12	1.95	0.47
6:UR:43:LYS:HG2	6:UR:144:MET:CE	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:207:ARG:NH1	3:B1:212:GLN:H	1.95	0.47
3:B1:209:GLN:NE2	20:JP:83:ARG:HH11	2.12	0.47
5:F1:25:ASP:HA	5:F1:28:SER:OG	2.14	0.47
5:L1:25:ASP:HA	5:L1:28:SER:OG	2.14	0.47
4:M1:1:MET:HE1	5:N1:9:VAL:HG12	1.95	0.47
7:a1:47:ASN:OD1	7:a1:149:ARG:NH1	2.47	0.47
7:i1:47:ASN:OD1	7:i1:149:ARG:NH1	2.47	0.47
6:M2:142:ARG:HH11	29:M2:202:PEB:C2B	2.21	0.47
6:S2:131:ILE:CG2	6:S2:160:ILE:CG1	2.93	0.47
6:W2:63:TYR:HB3	6:W2:65:TYR:CE1	2.49	0.47
7:X2:108:ARG:NH1	7:X2:108:ARG:CG	2.73	0.47
7:F3:39:ASP:OD2	29:F3:202:PEB:NC	2.43	0.47
7:J3:37:ARG:NH1	7:J3:97:LEU:O	2.46	0.47
10:d4:310:GLN:HG2	10:d4:311:GLN:N	2.27	0.47
10:d4:325:VAL:HB	10:d4:329:MET:CE	2.44	0.47
7:C4:141:PHE:CZ	29:C4:203:PEB:CMA	2.68	0.47
7:C4:165:VAL:HA	7:C4:168:TYR:CD2	2.40	0.47
6:D4:75:ASN:ND2	6:D4:77:GLU:HG2	2.28	0.47
6:D4:81:LYS:HD2	6:D4:81:LYS:O	2.13	0.47
7:E4:164:GLU:O	7:E4:167:SER:OG	2.27	0.47
7:G4:39:ASP:OD1	7:G4:153:PHE:CZ	2.66	0.47
6:H4:114:ARG:HD2	6:J4:118:ARG:HH12	1.65	0.47
7:I4:58:GLY:HA2	7:I4:61:CYS:SG	2.54	0.47
6:J4:57:ASP:N	6:J4:83:TYR:OH	2.46	0.47
7:K4:39:ASP:OD1	29:K4:202:PEB:H1D1	2.14	0.47
7:M4:107:ASP:O	7:M4:111:ASN:ND2	2.47	0.47
7:F5:141:PHE:HZ	29:F5:203:PEB:HMA3	1.79	0.47
7:G5:149:ARG:CG	7:k9:150:LYS:HZ1	2.26	0.47
7:K5:142:ILE:HD12	7:K5:142:ILE:HA	1.68	0.47
13:k6:268:THR:HG21	6:U7:76:GLN:NE2	2.29	0.47
6:Q7:52:VAL:HG13	6:Q7:86:VAL:HG12	1.96	0.47
7:R7:53:SER:O	7:R7:57:SER:OG	2.28	0.47
7:V7:42:ASN:O	7:V7:46:SER:OG	2.30	0.47
7:B8:104:VAL:CA	18:ME:265:LYS:O	2.51	0.47
4:C9:68:GLN:OE1	4:GI:138:ASN:HB3	2.13	0.47
4:E9:79:ILE:HG13	13:kH:220:GLU:O	2.02	0.47
4:K9:77:SER:OG	4:K9:78:ALA:N	2.44	0.47
5:N9:144:ASP:OD1	5:N9:144:ASP:N	2.46	0.47
29:W9:202:PEB:CMA	8:eR:249:TYR:CD2	2.89	0.47
6:d9:53:LYS:HA	6:d9:53:LYS:HD3	1.71	0.47
7:i9:122:VAL:HG13	29:i9:201:PEB:C1A	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:j9:52:VAL:HG13	6:j9:86:VAL:HG12	1.97	0.47
7:BA:78:ARG:HD3	29:BA:201:PEB:HMB1	1.96	0.47
6:GA:34:SER:HA	6:GA:37:ARG:NH2	2.30	0.47
6:IA:24:LEU:HB3	7:JA:38:LEU:HD22	1.95	0.47
7:LA:128:ILE:HA	7:LA:131:VAL:HG12	1.96	0.47
17:BB:246:ARG:NH2	7:PB:92:TYR:OH	2.41	0.47
6:EB:85:ASP:OD2	6:EB:127:TYR:OH	2.32	0.47
6:KB:55:ALA:HB1	6:KB:130:SER:HB2	1.95	0.47
6:OB:55:ALA:HB1	6:OB:130:SER:HB2	1.95	0.47
6:SB:55:ALA:HB1	6:SB:130:SER:HB2	1.95	0.47
6:YB:85:ASP:OD2	6:YB:127:TYR:OH	2.32	0.47
6:dB:17:ARG:O	7:eB:95:TYR:OH	2.29	0.47
6:hB:135:ARG:HD2	6:hB:157:ASP:CG	2.38	0.47
7:BC:96:ALA:HB2	7:BC:105:LEU:HB3	1.96	0.47
7:DC:8:VAL:O	7:DC:12:SER:OG	2.31	0.47
6:EC:50:ALA:HA	6:EC:53:LYS:HB2	1.97	0.47
7:FC:125:ASN:N	7:FC:125:ASN:OD1	2.48	0.47
18:MC:64:GLU:HG3	18:MC:67:GLN:HG3	1.94	0.47
29:CD:202:PEB:HBA3	29:CD:202:PEB:HHA1	1.96	0.47
7:ED:35:ASN:HD21	29:ED:201:PEB:HMC2	1.78	0.47
7:ED:84:ARG:HE	7:ED:84:ARG:HB3	1.49	0.47
6:FD:43:LYS:HZ2	6:FD:43:LYS:C	2.21	0.47
7:KD:58:GLY:HA2	7:KD:61:CYS:SG	2.54	0.47
18:ME:51:PRO:O	18:ME:53:ARG:N	2.47	0.47
6:OF:135:ARG:CZ	7:RF:149:ARG:HH12	2.27	0.47
7:VF:144:ASN:HD21	7:VF:153:PHE:HD2	1.62	0.47
7:LG:75:THR:HB	7:LG:78:ARG:HE	1.78	0.47
1:XI:122:ARG:NH2	1:XI:183:ASP:OD1	2.40	0.47
1:XI:157:ASP:N	1:XI:157:ASP:OD1	2.47	0.47
3:BI:205:ARG:C	20:PP:76:GLU:OE2	2.57	0.47
4:EI:25:GLN:HG2	4:KI:33:ARG:HG2	1.97	0.47
7:VI:144:ASN:HD21	7:VI:153:PHE:HD2	1.62	0.47
6:kJ:33:ARG:NH2	6:mJ:28:GLN:HB2	2.29	0.47
6:oJ:6:THR:HA	7:pJ:1:MET:SD	2.54	0.47
16:xJ:71:GLN:HB3	29:xJ:301:PEB:HBC2	1.95	0.47
16:xJ:268:SER:OG	16:xJ:269:ASP:N	2.47	0.47
5:DK:154:SER:HA	5:DK:157:VAL:HG22	1.96	0.47
7:YK:47:ASN:OD1	7:YK:149:ARG:NH1	2.47	0.47
6:dK:106:ASP:HA	6:dK:110:ILE:HB	1.95	0.47
6:AL:142:ARG:NH1	29:AL:202:PEB:NB	2.61	0.47
7:BL:125:ASN:HD22	7:TL:70:GLY:C	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ML:43:LYS:HB3	6:ML:144:MET:CE	2.44	0.47
6:iL:142:ARG:NH1	29:iL:202:PEB:NB	2.61	0.47
6:mL:74:GLU:N	6:mL:78:LYS:HG3	2.30	0.47
6:oL:6:THR:HA	7:pL:1:MET:SD	2.54	0.47
29:rL:201:PEB:HAC2	16:xL:115:PHE:HD1	1.78	0.47
7:vL:1:MET:HE3	7:vL:1:MET:HB2	1.80	0.47
15:bM:254:PRO:HA	7:FM:115:GLU:CD	2.39	0.47
16:AM:165:ARG:NH2	16:AM:166:TYR:OH	2.46	0.47
6:GM:85:ASP:OD2	6:GM:127:TYR:OH	2.32	0.47
6:IM:9:VAL:O	6:IM:9:VAL:HG12	2.14	0.47
6:SM:55:ALA:HB1	6:SM:130:SER:HB2	1.95	0.47
7:DN:78:ARG:HD3	29:DN:201:PEB:HMB1	1.96	0.47
7:LN:116:THR:HG21	14:MN:236:TYR:HD2	1.79	0.47
7:FO:84:ARG:HH22	9:OO:169:GLN:HG2	1.79	0.47
6:IO:97:LEU:HD11	6:IO:152:PHE:HD1	1.78	0.47
9:OO:218:LYS:HB2	9:OO:252:ARG:HG2	1.95	0.47
20:KP:97:ILE:HD12	21:OP:19:LEU:HD13	1.95	0.47
21:SP:1:MET:SD	20:TP:5:THR:HG23	2.54	0.47
22:VP:53:LEU:CD1	22:VP:56:LYS:HD3	2.42	0.47
25:YP:206:PHE:HB3	25:YP:207:PRO:HD2	1.95	0.47
26:ZP:87:LEU:O	26:ZP:88:THR:HG22	2.15	0.47
27:aP:200:ARG:O	27:aP:204:VAL:HG23	2.13	0.47
21:hP:47:ASN:HB3	21:hP:50:THR:CG2	2.44	0.47
20:lP:154:ASP:OD2	21:oP:46:ALA:CB	2.62	0.47
21:uP:47:ASN:HB3	21:uP:50:THR:CG2	2.44	0.47
20:vP:85:LEU:HB3	20:vP:133:MET:SD	2.54	0.47
21:wP:76:ARG:HD2	25:1P:702:ARG:HH22	1.78	0.47
6:AQ:22:SER:HA	6:CQ:101:GLY:HA2	1.95	0.47
6:IQ:150:VAL:O	6:IQ:153:SER:OG	2.29	0.47
8:eR:75:MET:SD	29:NR:201:PEB:HHC2	2.55	0.47
8:eR:86:LEU:C	8:eR:88:GLY:N	2.72	0.47
6:OR:84:ARG:NH1	7:TR:67:ILE:HG21	2.29	0.47
4:E1:29:GLY:HA3	4:K1:25:GLN:O	2.13	0.47
5:H1:25:ASP:HA	5:H1:28:SER:OG	2.14	0.47
4:I1:48:ALA:HB3	15:bB:336:SER:OG	2.14	0.47
4:M1:94:MET:HB2	4:M1:111:LEU:HD11	1.97	0.47
4:M1:105:GLY:O	4:M1:109:GLU:HG2	2.13	0.47
7:P1:47:ASN:OD1	7:P1:149:ARG:NH1	2.47	0.47
6:U1:157:ASP:OD1	6:U1:157:ASP:N	2.47	0.47
7:V1:65:GLY:HA2	7:c1:63:ASN:HD21	1.79	0.47
7:N2:3:ASP:H	7:N2:6:SER:HG	1.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q2:63:TYR:HB3	6:Q2:65:TYR:CE1	2.49	0.47
7:X2:40:ALA:O	7:X2:43:SER:OG	2.25	0.47
7:B3:39:ASP:OD2	29:B3:202:PEB:NC	2.43	0.47
7:D3:39:ASP:OD1	29:D3:202:PEB:HMD1	2.09	0.47
7:F3:37:ARG:NH1	7:F3:97:LEU:O	2.46	0.47
10:d4:111:ARG:HD3	10:d4:180:TYR:CE2	2.46	0.47
10:d4:198:TYR:O	10:d4:200:THR:N	2.47	0.47
10:d4:303:GLU:O	10:d4:306:GLU:HG3	2.15	0.47
29:C4:202:PEB:HMD1	6:D4:150:VAL:CG1	2.38	0.47
7:G4:41:VAL:HG21	7:G4:98:LEU:HD12	1.95	0.47
29:G4:202:PEB:HHA1	29:G4:202:PEB:HBA3	1.96	0.47
6:H4:59:CYS:HB3	6:H4:130:SER:HB3	1.94	0.47
7:K4:137:GLN:H	7:K4:137:GLN:HG2	1.51	0.47
6:L4:75:ASN:ND2	6:L4:77:GLU:HG2	2.28	0.47
6:L4:114:ARG:C	6:L4:118:ARG:HH21	2.21	0.47
7:I5:7:ARG:HE	28:bP:138:LEU:HD21	1.67	0.47
7:I5:45:VAL:HG21	28:bP:123:PHE:CD2	2.49	0.47
7:K5:54:ASP:OD2	7:K5:137:GLN:NE2	2.46	0.47
13:k6:198:MET:O	13:k6:201:MET:HG2	2.15	0.47
2:A7:49:ALA:O	2:A7:62:ARG:NH1	2.47	0.47
3:B7:62:LYS:HD2	4:C7:116:GLU:OE2	2.14	0.47
4:K7:57:GLN:OE1	5:JF:145:THR:CG2	2.60	0.47
7:a7:167:SER:OG	12:E8:36:VAL:HG23	2.13	0.47
6:j7:149:GLY:O	6:j7:153:SER:OG	2.29	0.47
7:H8:141:PHE:HZ	29:H8:203:PEB:HMA3	1.79	0.47
7:L8:141:PHE:HZ	29:L8:203:PEB:HMA3	1.79	0.47
12:E8:173:PHE:HZ	6:ZF:83:TYR:CZ	2.29	0.47
2:A9:47:ASN:O	2:A9:48:ARG:NH1	2.44	0.47
6:S9:54:GLU:CG	6:S9:133:TYR:HE2	2.22	0.47
7:DA:35:ASN:OD1	29:DA:202:PEB:ND	2.46	0.47
6:IA:52:VAL:HG11	6:IA:87:ASP:HA	1.96	0.47
6:UB:85:ASP:OD2	6:UB:127:TYR:OH	2.32	0.47
10:dD:292:VAL:HG11	4:EI:52:ILE:HG21	1.96	0.47
10:dD:303:GLU:O	10:dD:306:GLU:HG3	2.14	0.47
6:BD:90:MET:HA	6:BD:93:VAL:CG2	2.44	0.47
7:GD:9:VAL:O	7:GD:12:SER:OG	2.19	0.47
7:ID:7:ARG:HE	7:ID:7:ARG:CA	2.26	0.47
6:JD:133:TYR:O	6:JD:137:ARG:HG3	2.14	0.47
7:MD:41:VAL:HG22	7:MD:97:LEU:HD21	1.96	0.47
6:CE:50:ALA:HA	6:CE:53:LYS:HB2	1.96	0.47
7:DE:125:ASN:OD1	7:DE:125:ASN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:104:THR:HG21	2:AF:238:ARG:HD2	1.96	0.47
5:FF:17:GLU:O	5:FF:17:GLU:HG2	2.11	0.47
7:HG:141:PHE:CE2	29:HG:203:PEB:HMB3	2.43	0.47
7:JG:82:CYS:HA	29:JG:201:PEB:HHA1	1.95	0.47
4:GI:29:GLY:HA3	4:II:25:GLN:O	2.14	0.47
4:II:117:GLU:OE1	4:II:120:ARG:NH2	2.46	0.47
6:OI:91:ARG:HD3	7:PI:18:TYR:CE1	2.50	0.47
7:cI:1:MET:CE	7:cI:107:ASP:OD1	2.61	0.47
6:CJ:85:ASP:OD2	6:CJ:127:TYR:OH	2.30	0.47
7:dJ:159:THR:O	7:dJ:163:SER:OG	2.24	0.47
6:mJ:6:THR:HG22	7:nJ:1:MET:HE2	1.96	0.47
16:wJ:250:SER:O	16:wJ:254:GLN:HG3	2.14	0.47
7:FL:7:ARG:O	7:FL:11:ASN:ND2	2.46	0.47
6:GL:97:LEU:HD23	6:GL:155:TYR:CE2	2.48	0.47
6:GL:142:ARG:NH1	29:GL:202:PEB:NB	2.61	0.47
6:OL:74:GLU:N	6:OL:78:LYS:HG3	2.30	0.47
6:gL:74:GLU:N	6:gL:78:LYS:HG3	2.30	0.47
6:kL:116:VAL:HG23	7:tL:80:ALA:HB2	1.96	0.47
6:mL:108:TRP:CH2	7:nL:10:VAL:HG22	2.50	0.47
19:zL:329:ILE:CD1	20:NP:59:PHE:HD2	2.19	0.47
17:BM:154:LEU:HD21	17:BM:167:ILE:HG13	1.95	0.47
6:hM:9:VAL:O	6:hM:9:VAL:HG12	2.14	0.47
6:hM:55:ALA:HB1	6:hM:130:SER:HB2	1.95	0.47
6:jM:85:ASP:OD2	6:jM:127:TYR:OH	2.32	0.47
7:JN:78:ARG:HD3	29:JN:201:PEB:HMB1	1.96	0.47
6:KN:38:LEU:HD23	7:LN:24:LEU:HD23	1.91	0.47
14:MN:186:TYR:HD1	14:MN:189:LYS:HD2	1.79	0.47
6:AO:97:LEU:HD11	6:AO:152:PHE:HD1	1.78	0.47
6:EO:142:ARG:HE	29:EO:202:PEB:HNA	1.60	0.47
7:FO:37:ARG:NH1	7:FO:97:LEU:O	2.46	0.47
21:DP:65:ILE:O	21:DP:70:GLY:HA3	2.14	0.47
21:BP:47:ASN:HB3	21:BP:50:THR:CG2	2.44	0.47
21:HP:42:ALA:HB2	25:YP:40:LEU:HD21	1.97	0.47
21:HP:45:ALA:HA	25:YP:34:PHE:CZ	2.49	0.47
20:PP:108:GLY:HA2	21:SP:75:THR:HG23	1.95	0.47
21:QP:60:LEU:HD13	21:QP:72:MET:SD	2.54	0.47
22:VP:72:ALA:HA	22:VP:77:GLN:HB3	1.96	0.47
25:YP:148:SER:HB3	31:YP:1000:CYC:H3C	1.96	0.47
25:YP:188:SER:O	25:YP:192:ILE:HD12	2.15	0.47
27:aP:61:ARG:HB3	20:vP:76:GLU:OE2	2.14	0.47
21:fP:13:ASP:OD1	20:gP:107:ILE:HD13	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:kP:47:ASN:HB3	21:kP:50:THR:CG2	2.44	0.47
20:lP:85:LEU:HB3	20:lP:133:MET:SD	2.54	0.47
21:nP:47:ASN:HB3	21:nP:50:THR:CG2	2.44	0.47
20:vP:131:ARG:HH22	27:3P:250:VAL:CG2	2.27	0.47
25:1P:385:TYR:OH	25:1P:400:GLU:OE2	2.31	0.47
7:BQ:82:CYS:HA	29:BQ:201:PEB:HHA1	1.95	0.47
6:CQ:144:MET:HG3	6:CQ:148:ALA:HB3	1.94	0.47
6:UR:118:ARG:HG2	6:UR:119:THR:N	2.28	0.47
6:Q1:88:HIS:CD2	6:Q1:91:ARG:HH21	2.33	0.47
7:R1:124:THR:O	7:R1:127:SER:OG	2.23	0.47
6:b1:102:THR:HG22	6:b1:155:TYR:CE1	2.50	0.47
6:Q2:48:HIS:O	6:Q2:52:VAL:HG22	2.13	0.47
6:Q2:145:SER:O	6:Q2:148:ALA:N	2.46	0.47
6:U2:63:TYR:HB3	6:U2:65:TYR:CE1	2.49	0.47
7:V2:84:ARG:HG3	7:V2:87:GLU:OE1	2.15	0.47
6:E3:74:GLU:H	6:E3:78:LYS:HD3	1.80	0.47
6:I3:74:GLU:H	6:I3:78:LYS:HD3	1.80	0.47
7:C4:149:ARG:CZ	6:D4:135:ARG:NH2	2.78	0.47
6:J4:142:ARG:CG	6:J4:143:ASP:N	2.75	0.47
6:L4:81:LYS:HZ1	29:L4:201:PEB:CHB	2.27	0.47
7:B5:36:LYS:NZ	7:B5:158:CYS:SG	2.87	0.47
7:G5:77:ARG:HH12	12:E5:245:MET:HB2	1.78	0.47
7:I5:14:ALA:CB	21:LP:124:GLY:N	2.61	0.47
7:K5:157:ASP:OD2	7:K5:159:THR:HG22	2.14	0.47
7:K8:79:MET:HE1	7:LO:164:GLU:HA	1.94	0.47
3:B9:208:PRO:HG3	21:sP:58:LYS:O	2.15	0.47
5:J9:110:LEU:O	26:ZP:48:LEU:CD1	2.63	0.47
6:S9:102:THR:OG1	6:U9:17:ARG:NH2	2.34	0.47
6:AA:14:ALA:O	14:MA:133:ALA:HA	2.14	0.47
7:JA:128:ILE:HA	7:JA:131:VAL:HG12	1.96	0.47
15:bB:72:SER:HB2	6:KB:107:GLU:OE1	2.14	0.47
15:bB:349:LYS:CE	20:KP:68:PRO:HD2	2.32	0.47
6:CB:85:ASP:OD2	6:CB:127:TYR:OH	2.32	0.47
6:WB:9:VAL:HG12	6:WB:9:VAL:O	2.14	0.47
7:BC:51:MET:HE3	7:BC:137:GLN:CB	2.37	0.47
6:CC:50:ALA:HA	6:CC:53:LYS:HB2	1.96	0.47
7:FC:96:ALA:HB2	7:FC:105:LEU:HB3	1.96	0.47
6:IC:50:ALA:HA	6:IC:53:LYS:HB2	1.97	0.47
6:DD:142:ARG:CG	6:DD:143:ASP:N	2.75	0.47
6:FD:75:ASN:ND2	6:FD:77:GLU:HG2	2.28	0.47
6:FD:90:MET:HA	6:FD:93:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HD:55:ALA:O	6:HD:58:ALA:N	2.45	0.47
7:ID:136:ALA:HB3	29:ID:203:PEB:HBC2	1.97	0.47
6:JD:90:MET:HA	6:JD:93:VAL:CG2	2.44	0.47
7:KD:136:ALA:HB2	29:KD:203:PEB:CGC	2.44	0.47
7:MD:124:THR:CB	6:UI:69:PRO:HG2	2.43	0.47
6:EE:135:ARG:CZ	7:HE:149:ARG:HE	2.28	0.47
18:ME:255:LYS:C	18:ME:256:THR:OG1	2.55	0.47
6:KG:99:VAL:HG12	7:LG:9:VAL:HG21	1.96	0.47
14:MG:313:GLU:O	14:MG:316:THR:OG1	2.27	0.47
13:kH:18:ARG:HB3	6:YM:49:GLU:HG2	1.96	0.47
3:BI:95:ASP:OD1	3:BI:95:ASP:N	2.43	0.47
5:JI:15:ARG:NH2	27:aP:94:PHE:HD1	2.11	0.47
4:KI:117:GLU:OE1	4:KI:120:ARG:NH2	2.46	0.47
6:SJ:69:PRO:HG3	26:2P:132:LYS:NZ	2.27	0.47
7:lJ:76:ASN:HB2	6:oJ:108:TRP:O	2.13	0.47
7:nJ:1:MET:HE3	7:nJ:1:MET:HB2	1.80	0.47
6:oJ:68:ASN:CG	6:oJ:71:GLU:OE2	2.48	0.47
7:tJ:159:THR:O	7:tJ:163:SER:OG	2.26	0.47
19:zJ:215:THR:C	19:zJ:217:ALA:N	2.55	0.47
4:GK:2:LYS:H	4:GK:105:GLY:HA3	1.78	0.47
5:HK:25:ASP:HA	5:HK:28:SER:OG	2.14	0.47
7:PK:47:ASN:OD1	7:PK:149:ARG:NH1	2.47	0.47
7:TK:124:THR:O	7:TK:127:SER:OG	2.23	0.47
6:WK:106:ASP:HA	6:WK:110:ILE:HB	1.95	0.47
7:FL:110:LEU:HD22	7:FL:175:ALA:HB3	1.95	0.47
7:PL:19:VAL:HG23	7:PL:24:LEU:HG	1.96	0.47
6:kL:74:GLU:N	6:kL:78:LYS:HG3	2.30	0.47
6:kL:95:TYR:OH	7:lL:13:ASP:HA	2.14	0.47
29:kL:201:PEB:HBC2	7:tL:67:ILE:HG21	1.97	0.47
6:oL:19:PRO:HG3	7:pL:95:TYR:HD1	1.78	0.47
6:oL:142:ARG:NH1	29:oL:202:PEB:NB	2.61	0.47
6:uL:74:GLU:N	6:uL:78:LYS:HG3	2.30	0.47
19:zL:136:ALA:O	19:zL:185:TYR:OH	2.27	0.47
19:zL:333:TYR:O	20:NP:68:PRO:HG2	2.14	0.47
15:bM:93:GLU:HG3	6:IM:114:ARG:NH2	2.29	0.47
6:IM:85:ASP:OD2	6:IM:127:TYR:OH	2.32	0.47
6:UM:142:ARG:NH1	14:MQ:111:ARG:NH1	2.62	0.47
6:EN:1:MET:HE3	14:MN:196:ASN:ND2	2.30	0.47
21:DP:1:MET:SD	20:CP:5:THR:HG23	2.55	0.47
21:BP:83:ARG:HG3	25:YP:614:TYR:CD2	2.49	0.47
20:GP:17:TYR:CE1	23:WP:96:ARG:HD3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:JP:85:LEU:HB3	20:JP:133:MET:SD	2.54	0.47
20:KP:13:ALA:HB1	25:YP:262:LYS:O	2.15	0.47
27:aP:246:GLY:O	27:aP:249:VAL:HB	2.14	0.47
20:cP:23:LEU:HB3	21:hP:38:VAL:CG1	2.44	0.47
20:rP:85:LEU:HB3	20:rP:133:MET:SD	2.54	0.47
25:1P:188:SER:O	25:1P:192:ILE:HD12	2.14	0.47
25:1P:538:MET:HE2	25:1P:544:ARG:HD2	1.95	0.47
7:BQ:141:PHE:CZ	29:BQ:203:PEB:C4A	2.98	0.47
7:DQ:140:ALA:HB1	29:DQ:203:PEB:HMB1	1.93	0.47
8:eR:57:PHE:CD2	7:TR:80:ALA:CB	2.96	0.47
6:QR:92:LEU:C	6:QR:105:LEU:HD21	2.39	0.47
6:WR:8:VAL:HG11	6:WR:26:SER:OG	2.15	0.47
6:WR:142:ARG:CD	29:WR:202:PEB:CAA	2.73	0.47
7:P1:112:GLY:O	7:P1:116:THR:OG1	2.31	0.47
6:S1:105:LEU:HD22	6:S1:159:LEU:HD13	1.97	0.47
7:T1:3:ASP:OD1	7:T1:3:ASP:N	2.46	0.47
7:V1:47:ASN:OD1	7:V1:149:ARG:NH1	2.47	0.47
6:W1:88:HIS:CD2	6:W1:91:ARG:HH21	2.33	0.47
6:W1:102:THR:HG22	6:W1:155:TYR:CE1	2.50	0.47
7:c1:47:ASN:OD1	7:c1:149:ARG:NH1	2.47	0.47
6:f1:102:THR:HG22	6:f1:155:TYR:CE1	2.50	0.47
7:g1:47:ASN:OD1	7:g1:149:ARG:NH1	2.47	0.47
6:h1:88:HIS:CD2	6:h1:91:ARG:HH21	2.33	0.47
6:M2:140:VAL:N	6:M2:141:PRO:CD	2.75	0.47
29:S2:201:PEB:OD	7:X2:74:TYR:O	2.32	0.47
6:W2:31:ILE:CD1	7:X2:38:LEU:HD11	2.43	0.47
6:E3:24:LEU:C	6:E3:24:LEU:CD1	2.86	0.47
10:d4:335:LEU:CD1	10:dD:331:GLN:OE1	2.57	0.47
6:B4:33:ARG:NE	6:B4:33:ARG:HA	2.30	0.47
6:B4:90:MET:HA	6:B4:93:VAL:CG2	2.44	0.47
7:C4:107:ASP:O	7:C4:111:ASN:ND2	2.47	0.47
29:C4:202:PEB:HBA3	29:C4:202:PEB:HHA1	1.97	0.47
7:E4:165:VAL:HA	7:E4:168:TYR:CD2	2.40	0.47
7:I4:73:CYS:HA	7:I4:78:ARG:HB3	1.97	0.47
6:J4:81:LYS:HD2	6:J4:81:LYS:O	2.13	0.47
1:X7:64:ARG:O	2:A7:55:ARG:NH1	2.47	0.47
2:A7:155:GLU:CD	29:A7:304:PEB:HHC1	2.40	0.47
5:H7:90:LEU:O	5:H7:94:SER:OG	2.33	0.47
6:S7:102:THR:OG1	6:U7:17:ARG:NH2	2.34	0.47
6:I7:52:VAL:HG13	6:I7:86:VAL:HG12	1.96	0.47
5:J9:170:SER:HB2	26:ZP:47:GLN:HE21	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KA:91:ARG:HH11	7:LA:16:ALA:HA	1.80	0.47
7:LA:78:ARG:HD3	29:LA:201:PEB:HMB1	1.96	0.47
6:IB:85:ASP:OD2	6:IB:127:TYR:OH	2.32	0.47
6:aB:55:ALA:HB1	6:aB:130:SER:HB2	1.95	0.47
6:fB:55:ALA:HB1	6:fB:130:SER:HB2	1.95	0.47
6:jB:85:ASP:OD2	6:jB:127:TYR:OH	2.32	0.47
6:GC:50:ALA:HA	6:GC:53:LYS:HB2	1.97	0.47
7:HC:8:VAL:O	7:HC:12:SER:OG	2.31	0.47
10:dD:198:TYR:O	10:dD:200:THR:N	2.47	0.47
7:ED:41:VAL:HG22	7:ED:97:LEU:HD21	1.96	0.47
7:ED:71:GLY:O	7:ED:73:CYS:N	2.45	0.47
7:GD:76:ASN:CG	6:JD:113:ALA:CA	2.85	0.47
7:ID:117:TYR:HD1	7:ID:122:VAL:HB	1.78	0.47
7:KD:136:ALA:HB3	29:KD:203:PEB:HBC2	1.96	0.47
6:LD:114:ARG:C	6:LD:118:ARG:HH21	2.21	0.47
6:AE:25:GLU:OE2	6:CE:33:ARG:HG3	2.15	0.47
7:HE:96:ALA:HB2	7:HE:105:LEU:HB3	1.96	0.47
6:IE:50:ALA:HA	6:IE:53:LYS:HB2	1.97	0.47
18:ME:304:TRP:O	18:ME:305:ALA:C	2.50	0.47
1:XF:134:PHE:HD1	1:XF:146:LEU:HD23	1.79	0.47
1:XF:321:TYR:OH	5:HF:84:ARG:NH2	2.47	0.47
4:EF:7:GLU:HG3	4:KF:22:THR:HG21	1.97	0.47
5:HF:4:ALA:HB3	5:HF:30:MET:HE1	1.97	0.47
5:LF:4:ALA:HB3	5:LF:30:MET:HE1	1.97	0.47
7:TF:88:ILE:HG21	29:TF:201:PEB:CAD	2.44	0.47
7:BG:54:ASP:OD2	29:BG:203:PEB:HHC1	2.13	0.47
6:EG:94:ASN:HD22	7:FG:18:TYR:HD2	1.62	0.47
7:JG:75:THR:HB	7:JG:78:ARG:HE	1.78	0.47
3:BI:182:PRO:HB3	31:JI:1001:CYC:HAA1	1.94	0.47
4:CI:18:PHE:HB3	5:DI:45:THR:HG23	1.97	0.47
5:NI:4:ALA:HB3	5:NI:30:MET:HE1	1.97	0.47
6:OI:6:THR:CG2	7:PI:1:MET:HE2	2.35	0.47
7:PI:144:ASN:HD21	7:PI:153:PHE:HD2	1.62	0.47
7:BJ:125:ASN:HD22	7:TJ:70:GLY:C	2.22	0.47
6:EJ:85:ASP:OD2	6:EJ:127:TYR:OH	2.30	0.47
7:FJ:7:ARG:O	7:FJ:11:ASN:ND2	2.46	0.47
6:OJ:74:GLU:N	6:OJ:78:LYS:HG3	2.30	0.47
7:IJ:110:LEU:HD22	7:IJ:175:ALA:HB3	1.95	0.47
6:mJ:108:TRP:CH2	7:nJ:10:VAL:HG22	2.50	0.47
6:sJ:74:GLU:N	6:sJ:78:LYS:HG3	2.30	0.47
16:xJ:146:PRO:CD	16:xJ:147:LYS:H	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XK:153:GLU:OE1	1:XK:170:TYR:OH	2.30	0.47
4:CK:2:LYS:HD3	4:CK:7:GLU:OE2	2.15	0.47
5:FK:57:ARG:NH1	5:FK:57:ARG:CG	2.73	0.47
6:SK:105:LEU:HD22	6:SK:159:LEU:HD13	1.97	0.47
6:bK:102:THR:HG22	6:bK:155:TYR:CE1	2.50	0.47
6:fK:88:HIS:CD2	6:fK:91:ARG:HH21	2.33	0.47
7:NL:16:ALA:HB2	7:VL:69:PRO:HG2	1.97	0.47
6:eL:43:LYS:HA	6:eL:43:LYS:HD2	1.67	0.47
6:oL:147:GLN:OE1	29:rL:202:PEB:HMC2	2.14	0.47
7:pL:110:LEU:HD22	7:pL:175:ALA:HB3	1.95	0.47
16:xL:105:ARG:NH1	29:xL:303:PEB:CAB	2.46	0.47
29:zL:501:PEB:HBA3	29:zL:501:PEB:HHA1	1.96	0.47
6:YM:85:ASP:OD2	6:YM:127:TYR:OH	2.32	0.47
6:aM:9:VAL:O	6:aM:9:VAL:HG12	2.14	0.47
7:BN:133:ILE:HG23	29:BN:203:PEB:HBC1	1.97	0.47
6:GN:34:SER:HA	6:GN:37:ARG:NH2	2.30	0.47
7:HN:78:ARG:HD3	29:HN:201:PEB:HMB1	1.96	0.47
7:BO:120:LEU:CD2	29:BO:201:PEB:HBB1	2.39	0.47
6:CO:74:GLU:H	6:CO:78:LYS:HD3	1.80	0.47
20:NP:64:ASP:N	20:NP:64:ASP:OD1	2.42	0.47
20:PP:85:LEU:HB3	20:PP:133:MET:SD	2.54	0.47
21:UP:87:TYR:OH	25:YP:845:LEU:HD22	2.14	0.47
24:XP:61:ALA:HB2	24:XP:99:SER:HA	1.95	0.47
25:YP:827:GLU:OE2	25:YP:841:ARG:NH1	2.43	0.47
21:fP:47:ASN:HB3	21:fP:50:THR:CG2	2.44	0.47
21:jP:38:VAL:HG11	25:1P:44:VAL:CG1	2.43	0.47
21:kP:60:LEU:HD13	21:kP:72:MET:SD	2.55	0.47
21:qP:47:ASN:HB3	21:qP:50:THR:CG2	2.44	0.47
22:xP:138:VAL:CG1	22:xP:146:GLU:HG3	2.44	0.47
23:yP:52:ILE:HD11	23:yP:92:GLU:HA	1.96	0.47
25:1P:464:ASN:OD1	25:1P:466:LYS:HE3	2.15	0.47
25:1P:709:GLU:HB3	25:1P:836:ARG:CG	2.45	0.47
26:2P:87:LEU:O	26:2P:88:THR:HG22	2.14	0.47
6:AQ:38:LEU:HD21	6:AQ:97:LEU:O	1.97	0.47
6:EQ:94:ASN:HD22	7:FQ:18:TYR:HD2	1.62	0.47
6:QR:48:HIS:O	6:QR:52:VAL:HG22	2.13	0.47
7:VR:84:ARG:HG3	7:VR:87:GLU:OE1	2.15	0.47
4:G1:4:PRO:HD3	4:I1:22:THR:HG23	1.96	0.47
6:O1:88:HIS:CD2	6:O1:91:ARG:HH21	2.33	0.47
6:h1:102:THR:HG22	6:h1:155:TYR:CE1	2.50	0.47
6:j1:88:HIS:CD2	6:j1:91:ARG:HH21	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:k1:47:ASN:OD1	7:k1:149:ARG:NH1	2.47	0.47
8:e2:86:LEU:C	8:e2:88:GLY:N	2.72	0.47
6:O2:63:TYR:HB3	6:O2:65:TYR:CE1	2.49	0.47
7:V2:48:ALA:O	7:V2:52:VAL:HG23	2.14	0.47
10:d4:74:LEU:HD12	10:d4:74:LEU:HA	1.65	0.47
29:C4:202:PEB:HMD3	29:C4:202:PEB:HHC1	1.59	0.47
6:D4:24:LEU:HD22	7:E4:38:LEU:CD2	2.43	0.47
6:D4:90:MET:HA	6:D4:93:VAL:CG2	2.44	0.47
7:E4:41:VAL:HG22	7:E4:97:LEU:HD21	1.96	0.47
7:E4:62:GLU:C	7:E4:64:PRO:HD3	2.39	0.47
6:F4:113:ALA:C	6:F4:116:VAL:HG22	2.40	0.47
7:G4:41:VAL:HG21	7:G4:98:LEU:CD1	2.45	0.47
6:H4:137:ARG:NH2	29:H4:202:PEB:O1B	2.47	0.47
7:I4:71:GLY:C	7:I4:73:CYS:H	2.21	0.47
7:I4:88:ILE:CG2	29:I4:201:PEB:HAD1	2.42	0.47
29:I4:202:PEB:HBA3	29:I4:202:PEB:HHA1	1.96	0.47
6:J4:161:ASN:N	6:J4:161:ASN:OD1	2.47	0.47
7:M4:28:LYS:HB2	7:M4:28:LYS:HE2	1.56	0.47
29:M4:202:PEB:HBA3	29:M4:202:PEB:HHA1	1.96	0.47
6:J5:9:VAL:CB	7:K5:95:TYR:CE1	2.96	0.47
3:B7:187:GLU:CD	3:B7:187:GLU:N	2.73	0.47
4:C7:4:PRO:HG3	4:M7:22:THR:HG23	1.97	0.47
5:J7:77:ARG:HG3	4:M7:113:ALA:HB3	1.97	0.47
6:U7:52:VAL:HG13	6:U7:86:VAL:HG12	1.96	0.47
6:j7:52:VAL:HG13	6:j7:86:VAL:HG12	1.97	0.47
7:B8:141:PHE:HZ	29:B8:203:PEB:HMA3	1.79	0.47
2:A9:238:ARG:NH2	7:c9:108:ARG:O	2.45	0.47
4:C9:27:VAL:HG11	5:D9:38:LEU:HD21	1.96	0.47
7:P9:53:SER:O	7:P9:57:SER:OG	2.28	0.47
7:k9:42:ASN:O	7:k9:46:SER:OG	2.30	0.47
6:l9:52:VAL:HG13	6:l9:86:VAL:HG12	1.96	0.47
6:AA:34:SER:HA	6:AA:37:ARG:NH2	2.30	0.47
7:BA:35:ASN:OD1	29:BA:202:PEB:ND	2.46	0.47
6:CA:43:LYS:HZ3	6:CA:143:ASP:HB3	1.78	0.47
6:EA:52:VAL:HG11	6:EA:87:ASP:HA	1.96	0.47
15:bB:349:LYS:CE	20:KP:68:PRO:HB2	2.44	0.47
30:AB:304:PUB:HBC2	6:lB:15:ALA:HB1	1.96	0.47
6:OB:85:ASP:OD2	6:OB:127:TYR:OH	2.32	0.47
6:EC:135:ARG:CZ	7:HC:149:ARG:HE	2.28	0.47
7:LC:125:ASN:OD1	7:LC:125:ASN:N	2.48	0.47
18:MC:51:PRO:O	18:MC:53:ARG:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:312:LEU:HD12	18:MC:313:THR:OG1	2.14	0.47
7:CD:38:LEU:HA	7:CD:38:LEU:HD23	1.64	0.47
7:ED:41:VAL:HG21	7:ED:98:LEU:CD1	2.45	0.47
7:GD:36:LYS:HZ3	29:GD:202:PEB:C2B	2.28	0.47
7:GD:51:MET:HE2	29:GD:203:PEB:CHA	2.44	0.47
6:JD:113:ALA:C	6:JD:116:VAL:HG22	2.40	0.47
6:LD:90:MET:HA	6:LD:93:VAL:CG2	2.44	0.47
7:MD:58:GLY:HA2	7:MD:61:CYS:SG	2.54	0.47
29:MD:202:PEB:HBA3	29:MD:202:PEB:HHA1	1.96	0.47
7:FE:96:ALA:HB2	7:FE:105:LEU:HB3	1.96	0.47
4:CF:120:ARG:HH11	4:KF:116:GLU:CD	2.22	0.47
5:DF:35:ASN:HD22	29:DF:1002:PEB:HND	1.61	0.47
5:LF:16:GLY:HA3	5:NF:69:PRO:HB3	1.96	0.47
7:cF:144:ASN:HD21	7:cF:153:PHE:HD2	1.61	0.47
7:mF:144:ASN:HD21	7:mF:153:PHE:HD2	1.61	0.47
7:FG:54:ASP:CB	29:FG:203:PEB:HBA2	2.40	0.47
5:FI:75:THR:CG2	5:FI:76:SER:N	2.77	0.47
7:aI:144:ASN:HD21	7:aI:153:PHE:HD2	1.61	0.47
7:iI:146:ALA:O	7:iI:150:LYS:NZ	2.42	0.47
7:mI:106:GLU:OE2	7:mI:171:ARG:CD	2.59	0.47
7:PJ:15:LYS:HE3	7:PJ:15:LYS:HB2	1.53	0.47
7:fJ:33:ASP:HB3	7:fJ:36:LYS:HE3	1.96	0.47
6:kJ:74:GLU:N	6:kJ:78:LYS:HG3	2.30	0.47
29:kJ:201:PEB:HBC2	7:tJ:67:ILE:HG21	1.97	0.47
2:AK:116:ARG:HH22	7:kK:77:ARG:HD3	1.80	0.47
4:EK:3:THR:CB	4:EK:4:PRO:CD	2.93	0.47
5:FK:14:ALA:O	7:PK:125:ASN:ND2	2.48	0.47
5:FK:25:ASP:HA	5:FK:28:SER:OG	2.14	0.47
6:SK:25:GLU:HG2	6:UK:33:ARG:HG3	1.96	0.47
7:TK:47:ASN:OD1	7:TK:149:ARG:NH1	2.47	0.47
6:bK:33:ARG:HG3	6:dK:25:GLU:HG2	1.97	0.47
6:lK:102:THR:HG22	6:lK:155:TYR:CE1	2.50	0.47
6:AL:85:ASP:OD2	6:AL:127:TYR:OH	2.30	0.47
6:ML:40:ALA:CA	6:ML:144:MET:HE1	2.33	0.47
6:SL:85:ASP:OD2	6:SL:127:TYR:OH	2.30	0.47
7:lL:33:ASP:HB3	7:lL:36:LYS:HE3	1.96	0.47
6:qL:85:ASP:OD2	6:qL:127:TYR:OH	2.30	0.47
7:FM:75:THR:HG23	6:MM:108:TRP:HA	1.96	0.47
6:GM:147:GLN:CD	6:GM:147:GLN:N	2.73	0.47
6:IM:55:ALA:HB1	6:IM:130:SER:HB2	1.95	0.47
7:iM:114:LYS:C	7:iM:114:LYS:HD2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AN:43:LYS:HZ3	6:AN:143:ASP:HB3	1.79	0.47
7:FN:133:ILE:HG23	29:FN:203:PEB:HBC1	1.97	0.47
7:LN:37:ARG:NH2	7:LN:164:GLU:OE1	2.38	0.47
7:JO:37:ARG:NH1	7:JO:97:LEU:O	2.46	0.47
21:DP:14:VAL:CG2	23:WP:133:ILE:HD12	2.44	0.47
20:PP:64:ASP:OD1	20:PP:64:ASP:N	2.42	0.47
22:VP:51:ILE:HG23	22:VP:85:TYR:HB3	1.96	0.47
25:YP:273:GLU:O	25:YP:277:VAL:HG23	2.14	0.47
27:aP:101:ASP:HB3	27:aP:104:LEU:O	2.14	0.47
28:bP:175:GLY:HA2	28:bP:179:LEU:O	2.15	0.47
21:dP:2:GLN:HB2	21:dP:6:THR:HB	1.94	0.47
21:jP:45:ALA:HA	25:1P:34:PHE:CE2	2.49	0.47
21:sP:47:ASN:HB3	21:sP:50:THR:CG2	2.44	0.47
27:3P:101:ASP:HB3	27:3P:104:LEU:O	2.14	0.47
28:4P:131:ARG:NH2	28:4P:218:PRO:HG3	2.29	0.47
6:CQ:19:PRO:HD3	7:DQ:91:ARG:HA	1.96	0.47
7:HQ:133:ILE:HA	29:HQ:203:PEB:HBC1	1.96	0.47
7:JQ:108:ARG:HH11	14:MQ:257:THR:HG23	1.78	0.47
8:eR:59:SER:HB2	7:TR:81:ALA:HB2	1.96	0.47
6:MR:63:TYR:HB3	6:MR:65:TYR:CE1	2.49	0.47
6:QR:145:SER:C	6:QR:147:GLN:N	2.70	0.47
6:SR:63:TYR:HB3	6:SR:65:TYR:CE1	2.49	0.47
6:SR:105:LEU:HD23	6:SR:158:TYR:HD2	1.78	0.47
4:C1:3:THR:CB	4:C1:4:PRO:HD2	2.43	0.47
4:C1:28:ASN:O	4:C1:32:GLN:HG2	2.14	0.47
4:C1:114:GLY:C	4:C1:116:GLU:N	2.69	0.47
5:D1:25:ASP:HA	5:D1:28:SER:OG	2.14	0.47
6:S1:88:HIS:CD2	6:S1:91:ARG:HH21	2.33	0.47
6:S1:102:THR:HG22	6:S1:155:TYR:CE1	2.50	0.47
7:T1:47:ASN:OD1	7:T1:149:ARG:NH1	2.47	0.47
6:U1:52:VAL:CG1	6:U1:86:VAL:HG12	2.33	0.47
6:U1:88:HIS:CD2	6:U1:91:ARG:HH21	2.33	0.47
6:Z1:102:THR:HG22	6:Z1:155:TYR:CE1	2.50	0.47
6:b1:33:ARG:HG3	6:d1:25:GLU:HG2	1.97	0.47
6:d1:88:HIS:CD2	6:d1:91:ARG:HH21	2.33	0.47
6:d1:102:THR:HG22	6:d1:155:TYR:CE1	2.50	0.47
6:j1:102:THR:HG22	6:j1:155:TYR:CE1	2.50	0.47
6:l1:106:ASP:HA	6:l1:110:ILE:HB	1.95	0.47
8:e2:147:PHE:CE2	8:e2:163:HIS:HE1	2.32	0.47
29:e2:401:PEB:CHA	7:P2:82:CYS:CB	2.92	0.47
6:M2:81:LYS:HZ2	29:M2:201:PEB:CGB	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U2:115:GLU:N	6:U2:115:GLU:CD	2.73	0.47
6:G3:138:LEU:HD11	6:G3:149:GLY:HA2	1.97	0.47
6:I3:102:THR:O	6:I3:102:THR:OG1	2.29	0.47
7:L3:65:GLY:O	7:L3:68:SER:OG	2.30	0.47
7:L3:144:ASN:ND2	7:L3:151:MET:O	2.46	0.47
10:d4:68:LEU:HD23	10:d4:71:ARG:HH11	1.79	0.47
7:C4:7:ARG:HE	7:C4:7:ARG:CA	2.26	0.47
7:C4:41:VAL:HG21	7:C4:98:LEU:CD1	2.45	0.47
7:E4:26:ALA:HA	7:E4:29:SER:HG	1.78	0.47
6:F4:43:LYS:NZ	6:F4:43:LYS:CB	2.75	0.47
6:F4:84:ARG:HG2	6:F4:85:ASP:N	2.29	0.47
6:F4:161:ASN:OD1	6:F4:161:ASN:N	2.48	0.47
7:G4:28:LYS:HE2	7:G4:28:LYS:HB2	1.56	0.47
7:I4:164:GLU:O	7:I4:167:SER:OG	2.27	0.47
29:I4:203:PEB:NB	29:I4:203:PEB:NC	2.62	0.47
6:J4:113:ALA:C	6:J4:116:VAL:HG22	2.40	0.47
7:K4:59:MET:HE2	7:K4:129:ARG:HG3	1.96	0.47
6:L4:84:ARG:HG2	6:L4:85:ASP:N	2.26	0.47
7:M4:39:ASP:OD1	29:M4:202:PEB:H1D1	2.14	0.47
29:M4:203:PEB:ND	29:M4:203:PEB:C3C	2.78	0.47
7:B5:141:PHE:HZ	29:B5:203:PEB:HMA3	1.79	0.47
7:H5:141:PHE:HZ	29:H5:203:PEB:HMA3	1.79	0.47
7:I5:7:ARG:CB	28:bP:132:PRO:HA	2.44	0.47
7:K5:1:MET:CE	7:K5:104:VAL:HG21	2.42	0.47
7:C5:73:CYS:O	7:C5:79:MET:SD	2.73	0.47
12:E5:36:VAL:HG23	12:E5:37:VAL:HG23	1.95	0.47
13:k6:94:LEU:HD13	13:k6:120:ILE:CD1	2.45	0.47
13:k6:94:LEU:HD22	13:k6:94:LEU:HA	1.76	0.47
5:L7:90:LEU:O	5:L7:94:SER:OG	2.33	0.47
6:d7:52:VAL:HG13	6:d7:86:VAL:HG12	1.96	0.47
7:k7:147:THR:HB	7:G8:150:LYS:O	2.12	0.47
7:B8:104:VAL:HG23	18:ME:265:LYS:O	2.14	0.47
1:X9:281:ALA:HB1	1:X9:337:VAL:HG23	1.95	0.47
5:F9:90:LEU:O	5:F9:94:SER:OG	2.33	0.47
5:H9:90:LEU:O	5:H9:94:SER:OG	2.33	0.47
5:L9:90:LEU:O	5:L9:94:SER:OG	2.33	0.47
5:N9:7:LYS:HE3	26:ZP:93:THR:OG1	2.14	0.47
6:Q9:52:VAL:HG13	6:Q9:86:VAL:HG12	1.96	0.47
6:U9:76:GLN:NE2	13:kH:268:THR:HG21	2.29	0.47
7:FA:81:ALA:CB	14:MA:174:ARG:HH22	2.28	0.47
7:HA:35:ASN:OD1	29:HA:202:PEB:ND	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IA:37:ARG:HD2	6:IA:97:LEU:HA	1.97	0.47
7:LA:176:ILE:O	7:LA:176:ILE:HG22	2.13	0.47
17:BB:181:THR:HG21	29:BB:301:PEB:HBA2	1.96	0.47
17:BB:273:THR:HB	6:WB:107:GLU:OE2	2.14	0.47
6:GB:9:VAL:O	6:GB:9:VAL:HG12	2.14	0.47
7:LB:85:ASP:HB3	29:LB:201:PEB:HHC1	1.97	0.47
7:NB:170:ASP:CA	28:bP:184:THR:HG22	2.44	0.47
6:QB:108:TRP:HA	7:VB:75:THR:HG23	1.95	0.47
6:dB:9:VAL:O	6:dB:9:VAL:HG12	2.14	0.47
7:iB:114:LYS:C	7:iB:114:LYS:HD2	2.39	0.47
6:jB:147:GLN:CD	29:mB:202:PEB:HMC2	2.32	0.47
7:JC:115:GLU:HA	7:JC:118:ILE:HG12	1.97	0.47
7:LC:64:PRO:HG2	4:CF:76:SER:O	2.14	0.47
7:LC:96:ALA:HB2	7:LC:105:LEU:HB3	1.96	0.47
7:LC:115:GLU:HA	7:LC:118:ILE:HG12	1.97	0.47
18:MC:59:GLU:CD	18:MC:59:GLU:N	2.73	0.47
6:BD:113:ALA:C	6:BD:116:VAL:HG22	2.40	0.47
7:CD:41:VAL:HG22	7:CD:97:LEU:HD21	1.96	0.47
7:CD:59:MET:HE2	7:CD:129:ARG:HG3	1.96	0.47
7:CD:133:ILE:HD11	29:CD:203:PEB:C4C	2.44	0.47
6:DD:90:MET:HA	6:DD:93:VAL:CG2	2.44	0.47
7:ED:51:MET:CE	7:ED:141:PHE:HE2	2.22	0.47
6:FD:55:ALA:O	6:FD:58:ALA:N	2.45	0.47
6:FD:161:ASN:OD1	6:FD:161:ASN:N	2.48	0.47
7:GD:58:GLY:HA2	7:GD:61:CYS:SG	2.54	0.47
7:GD:93:VAL:HG21	7:GD:169:PHE:CZ	2.50	0.47
29:GD:202:PEB:HBA3	29:GD:202:PEB:HHA1	1.96	0.47
7:KD:7:ARG:HE	7:KD:7:ARG:CA	2.26	0.47
7:DE:115:GLU:HA	7:DE:118:ILE:HG12	1.97	0.47
6:EE:50:ALA:HA	6:EE:53:LYS:HB2	1.97	0.47
29:LE:201:PEB:O1B	18:ME:219:SER:C	2.53	0.47
1:XF:122:ARG:NH2	1:XF:183:ASP:OD1	2.40	0.47
5:HF:37:ARG:NH1	5:HF:97:MET:O	2.47	0.47
4:KF:103:GLY:H	4:KF:153:TYR:HH	1.62	0.47
6:QF:33:ARG:NE	6:QF:151:GLU:OE2	2.46	0.47
7:TF:147:THR:HB	7:TF:148:GLU:OE1	2.15	0.47
7:VF:139:VAL:HG13	7:VF:162:ALA:HB1	1.97	0.47
7:VF:147:THR:HB	7:VF:148:GLU:OE1	2.15	0.47
7:YF:139:VAL:HG13	7:YF:162:ALA:HB1	1.97	0.47
7:aF:139:VAL:HG13	7:aF:162:ALA:HB1	1.97	0.47
6:fF:9:VAL:CG2	7:gF:1:MET:HE1	1.99	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:kF:144:ASN:HD21	7:kF:153:PHE:HD2	1.61	0.47
6:AG:38:LEU:HD21	6:AG:97:LEU:O	1.97	0.47
7:BG:145:THR:O	29:BG:203:PEB:HBB2	2.15	0.47
6:CG:158:TYR:HA	6:CG:161:ASN:HB2	1.96	0.47
7:DG:129:ARG:HH21	7:DG:133:ILE:HG13	1.80	0.47
6:IG:115:GLU:OE1	6:IG:115:GLU:N	2.46	0.47
6:KG:54:GLU:OE1	6:KG:137:ARG:NH2	2.37	0.47
6:KG:158:TYR:HA	6:KG:161:ASN:HB2	1.96	0.47
7:LG:111:ASN:HA	14:MG:232:LYS:HZ1	1.79	0.47
2:AI:187:ASP:OD1	2:AI:187:ASP:N	2.41	0.47
3:BI:17:VAL:HG11	31:LI:1001:CYC:HBA1	1.96	0.47
3:BI:224:MET:CG	5:JI:152:ASP:CB	2.93	0.47
4:EI:33:ARG:NH2	29:LI:1002:PEB:HBD1	2.29	0.47
5:LI:68:GLN:OE1	27:aP:110:SER:CB	2.62	0.47
7:RI:146:ALA:O	7:RI:150:LYS:NZ	2.42	0.47
7:aI:56:VAL:HG12	7:aI:79:MET:HE1	1.97	0.47
7:aI:139:VAL:HG13	7:aI:162:ALA:HB1	1.97	0.47
7:cI:139:VAL:HG13	7:cI:162:ALA:HB1	1.97	0.47
6:EJ:74:GLU:N	6:EJ:78:LYS:HG3	2.30	0.47
7:NJ:114:LYS:HG2	7:NJ:176:ILE:O	2.14	0.47
7:PJ:47:ASN:HD21	7:PJ:149:ARG:HH11	1.60	0.47
7:TJ:33:ASP:HB3	7:TJ:36:LYS:HE3	1.97	0.47
7:VJ:116:THR:O	7:VJ:120:LEU:HD12	2.15	0.47
6:eJ:74:GLU:N	6:eJ:78:LYS:HG3	2.30	0.47
6:mJ:85:ASP:OD2	6:mJ:127:TYR:OH	2.30	0.47
6:uJ:85:ASP:OD2	6:uJ:127:TYR:OH	2.30	0.47
16:xJ:99:ARG:HG3	30:xJ:305:PUB:HBD2	1.97	0.47
16:xJ:102:ALA:CA	16:xJ:105:ARG:NE	2.74	0.47
17:yJ:154:LEU:HD22	17:yJ:163:GLU:HB2	1.97	0.47
3:BK:223:ASN:O	3:BK:226:GLN:HB2	2.15	0.47
4:CK:28:ASN:O	4:CK:32:GLN:HG2	2.14	0.47
4:KK:143:SER:CB	29:cL:202:PEB:HMA2	2.42	0.47
6:QK:102:THR:HG22	6:QK:155:TYR:CE1	2.50	0.47
6:SK:102:THR:HG22	6:SK:155:TYR:CE1	2.50	0.47
6:ZK:49:GLU:O	6:ZK:53:LYS:HB3	2.15	0.47
6:ZK:54:GLU:OE1	6:ZK:137:ARG:NH2	2.47	0.47
7:aK:97:LEU:CD1	7:aK:165:VAL:HG23	2.40	0.47
7:cK:47:ASN:OD1	7:cK:149:ARG:NH1	2.47	0.47
7:eK:47:ASN:OD1	7:eK:149:ARG:NH1	2.47	0.47
6:AL:55:ALA:HA	6:AL:133:TYR:HE2	1.79	0.47
7:DL:24:LEU:O	7:DL:26:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KL:65:TYR:CD1	6:KL:65:TYR:C	2.93	0.47
6:ML:85:ASP:OD2	6:ML:127:TYR:OH	2.30	0.47
6:UL:75:ASN:OD1	6:UL:75:ASN:N	2.48	0.47
6:UL:85:ASP:OD2	6:UL:127:TYR:OH	2.30	0.47
6:YL:74:GLU:N	6:YL:78:LYS:HG3	2.30	0.47
6:aL:68:ASN:CG	6:aL:71:GLU:OE2	2.48	0.47
6:oL:95:TYR:HB3	7:pL:9:VAL:HG13	1.97	0.47
15:bM:276:ASN:CB	28:4P:178:LYS:HE3	2.44	0.47
17:BM:273:THR:HB	6:WM:107:GLU:OE2	2.14	0.47
6:GM:36:ALA:HB1	6:GM:147:GLN:HB2	1.96	0.47
7:NM:25:GLN:CG	21:oP:147:LYS:HB2	2.03	0.47
7:PM:85:ASP:HB3	29:PM:201:PEB:HHC1	1.97	0.47
6:SM:85:ASP:OD2	6:SM:127:TYR:OH	2.32	0.47
7:DN:128:ILE:HA	7:DN:131:VAL:HG12	1.96	0.47
6:GN:59:CYS:O	6:GN:63:TYR:N	2.46	0.47
6:AO:74:GLU:H	6:AO:78:LYS:HD3	1.80	0.47
7:BO:142:ILE:HD11	7:BO:165:VAL:HG11	1.95	0.47
7:DO:36:LYS:HA	29:DO:202:PEB:HHA1	1.96	0.47
20:AP:85:LEU:HB3	20:AP:133:MET:SD	2.54	0.47
21:DP:72:MET:O	21:DP:72:MET:HG3	2.14	0.47
21:FP:13:ASP:OD2	20:EP:107:ILE:HD13	2.13	0.47
20:JP:64:ASP:OD1	20:JP:64:ASP:N	2.42	0.47
21:MP:65:ILE:O	21:MP:70:GLY:HA3	2.15	0.47
21:QP:34:GLY:HA3	20:RP:30:VAL:HG11	1.97	0.47
20:RP:68:PRO:HB3	20:gP:66:VAL:HG21	1.96	0.47
20:TP:13:ALA:O	25:YP:814:GLY:HA3	2.13	0.47
23:WP:52:ILE:HD11	23:WP:92:GLU:HA	1.96	0.47
25:YP:59:LEU:HD12	25:YP:59:LEU:HA	1.77	0.47
25:YP:545:ILE:HA	25:YP:548:LYS:HG2	1.96	0.47
25:YP:709:GLU:HB3	25:YP:836:ARG:CG	2.45	0.47
27:aP:99:LEU:HD23	27:aP:105:GLY:HA2	1.95	0.47
28:bP:220:LYS:HG2	28:bP:221:PRO:HD2	1.96	0.47
21:dP:65:ILE:O	21:dP:70:GLY:HA3	2.14	0.47
20:gP:85:LEU:HB3	20:gP:133:MET:SD	2.54	0.47
21:oP:47:ASN:HB3	21:oP:50:THR:CG2	2.44	0.47
20:pP:106:GLU:HG2	24:zP:62:VAL:CG2	2.42	0.47
25:1P:362:ALA:O	25:1P:365:SER:HB2	2.13	0.47
6:AQ:38:LEU:HD21	6:AQ:98:VAL:N	2.23	0.47
7:BQ:129:ARG:HH21	7:BQ:133:ILE:HG13	1.80	0.47
6:CQ:150:VAL:O	6:CQ:153:SER:OG	2.29	0.47
6:EQ:114:ARG:HA	6:EQ:114:ARG:HD3	1.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EQ:158:TYR:HA	6:EQ:161:ASN:HB2	1.96	0.47
7:FQ:58:GLY:CA	29:FQ:203:PEB:C2D	2.93	0.47
6:IQ:2:LYS:NZ	14:MQ:254:VAL:H	2.13	0.47
6:IQ:158:TYR:HA	6:IQ:161:ASN:HB2	1.97	0.47
7:LQ:109:CYS:C	14:MQ:236:TYR:HE1	2.16	0.47
8:eR:93:ASP:OD1	8:eR:94:GLU:N	2.46	0.47
8:eR:119:ASP:OD1	8:eR:120:ALA:N	2.48	0.47
6:OR:63:TYR:HB3	6:OR:65:TYR:CE1	2.49	0.47
6:QR:145:SER:O	6:QR:148:ALA:N	2.46	0.47
7:TR:79:MET:O	7:TR:83:LEU:HG	2.14	0.47
7:TR:105:LEU:O	7:TR:109:CYS:HB2	2.14	0.47
7:VR:37:ARG:O	7:VR:41:VAL:CG2	2.63	0.47
6:WR:31:ILE:CD1	7:XR:38:LEU:HD11	2.43	0.47
6:WR:137:ARG:NH2	29:WR:202:PEB:NC	2.63	0.47
1:X1:120:ASP:N	1:X1:120:ASP:OD1	2.47	0.47
4:C1:142:LEU:HB3	4:C1:147:ALA:HB2	1.96	0.47
4:C1:143:SER:O	4:C1:147:ALA:HB3	2.14	0.47
7:V1:159:THR:OG1	14:MA:103:ARG:CG	2.63	0.47
6:Z1:52:VAL:HG22	6:Z1:90:MET:HG3	1.97	0.47
8:e2:268:PHE:CD1	7:P2:107:ASP:OD2	2.67	0.47
29:N2:202:PEB:HHC1	29:N2:202:PEB:HMD3	1.77	0.47
7:B3:37:ARG:NH1	7:B3:97:LEU:O	2.46	0.47
10:d4:331:GLN:C	10:dD:331:GLN:HE21	2.20	0.47
6:B4:1:MET:C	6:B4:2:LYS:HG3	2.38	0.47
7:G4:135:LYS:NZ	7:G4:169:PHE:HB2	2.30	0.47
7:I4:74:TYR:HB3	7:I4:78:ARG:NH2	2.21	0.47
6:J4:32:GLN:HG3	6:L4:32:GLN:HE22	1.79	0.47
7:K4:73:CYS:HA	7:K4:78:ARG:HB3	1.97	0.47
7:G5:72:MEN:HD2	7:G5:123:PRO:HD3	1.78	0.47
7:L5:141:PHE:HZ	29:L5:203:PEB:HMA3	1.79	0.47
12:E5:162:ASN:HD22	29:kI:203:PEB:NB	1.52	0.47
1:X7:324:ASN:O	4:C7:16:GLY:HA3	2.14	0.47
3:B7:228:MET:CB	20:rP:56:GLN:HG3	2.45	0.47
6:W7:142:ARG:HD3	29:W7:202:PEB:C1A	2.45	0.47
6:f7:52:VAL:HG13	6:f7:86:VAL:HG12	1.97	0.47
6:h7:52:VAL:HG13	6:h7:86:VAL:HG12	1.96	0.47
7:k7:150:LYS:HD2	7:G8:149:ARG:HH21	1.78	0.47
7:H8:72:MEN:HD2	7:H8:123:PRO:HD3	1.78	0.47
31:I9:1001:CYC:HMA1	5:L9:79:MET:HG2	1.97	0.47
6:Q9:53:LYS:HA	6:Q9:53:LYS:HD3	1.71	0.47
6:S9:149:GLY:O	6:S9:153:SER:OG	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:d9:52:VAL:HG13	6:d9:86:VAL:HG12	1.96	0.47
6:f9:52:VAL:HG13	6:f9:86:VAL:HG12	1.97	0.47
6:EA:128:VAL:HG12	6:EA:163:LEU:HD12	1.97	0.47
6:KA:34:SER:HA	6:KA:37:ARG:NH2	2.30	0.47
15:bB:360:ASN:HD21	6:MB:80:ASN:HD21	1.63	0.47
6:QB:9:VAL:O	6:QB:9:VAL:HG12	2.14	0.47
6:aB:9:VAL:O	6:aB:9:VAL:HG12	2.14	0.47
29:aB:203:PEB:OD	6:dB:28:GLN:NE2	2.41	0.47
6:fB:85:ASP:OD2	6:fB:127:TYR:OH	2.32	0.47
7:kB:10:VAL:O	7:kB:10:VAL:HG12	2.15	0.47
6:lB:85:ASP:OD2	6:lB:127:TYR:OH	2.32	0.47
7:DC:125:ASN:OD1	7:DC:125:ASN:N	2.47	0.47
6:BD:4:VAL:HG11	6:BD:26:SER:HB2	1.96	0.47
7:CD:71:GLY:C	7:CD:73:CYS:H	2.21	0.47
6:DD:31:ILE:O	6:DD:34:SER:HB3	2.15	0.47
29:ED:201:PEB:HBA3	29:ED:201:PEB:HHA1	1.96	0.47
7:GD:59:MET:HE2	7:GD:129:ARG:HG3	1.96	0.47
7:ID:9:VAL:O	7:ID:12:SER:OG	2.19	0.47
7:KD:71:GLY:O	7:KD:73:CYS:N	2.46	0.47
7:MD:39:ASP:OD1	29:MD:202:PEB:H1D1	2.14	0.47
7:MD:41:VAL:HG21	7:MD:98:LEU:CD1	2.45	0.47
7:MD:93:VAL:HG21	7:MD:169:PHE:CZ	2.50	0.47
7:FE:115:GLU:HA	7:FE:118:ILE:HG12	1.97	0.47
18:ME:196:ASP:HB2	18:ME:237:PHE:HZ	1.80	0.47
18:ME:312:LEU:HD22	7:vL:68:SER:OG	2.07	0.47
29:FF:1002:PEB:CMC	4:KF:145:GLN:HE21	2.26	0.47
5:JF:135:LYS:HZ2	27:3P:67:GLY:HA2	1.79	0.47
4:KF:100:VAL:HG11	5:LF:27:LEU:HD12	1.96	0.47
7:TF:144:ASN:HD21	7:TF:153:PHE:HD2	1.61	0.47
7:cF:139:VAL:HG13	7:cF:162:ALA:HB1	1.97	0.47
6:AG:2:LYS:HZ2	30:MG:403:PUB:HAB1	1.69	0.47
7:FG:119:ALA:HA	14:MG:107:PRO:HD2	1.95	0.47
7:JG:117:TYR:O	7:JG:122:VAL:N	2.44	0.47
7:LG:58:GLY:HA2	29:LG:203:PEB:C3D	2.44	0.47
5:JI:166:ARG:HH22	27:aP:86:LYS:NZ	2.11	0.47
6:OI:9:VAL:HG23	7:PI:1:MET:SD	2.55	0.47
7:YI:139:VAL:HG13	7:YI:162:ALA:HB1	1.97	0.47
7:eI:139:VAL:HG13	7:eI:162:ALA:HB1	1.97	0.47
7:gI:139:VAL:HG13	7:gI:162:ALA:HB1	1.97	0.47
7:BJ:118:ILE:O	7:TJ:118:ILE:HD11	2.15	0.47
7:FJ:113:LEU:CD1	29:FJ:201:PEB:CMD	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HJ:131:VAL:HA	7:HJ:134:MET:HE3	1.96	0.47
6:OJ:6:THR:HB	17:yJ:219:VAL:HG11	1.97	0.47
7:PJ:117:TYR:O	7:PJ:118:ILE:C	2.56	0.47
7:TJ:1:MET:HE3	7:TJ:1:MET:HB2	1.80	0.47
6:sJ:11:ALA:HA	16:xJ:82:TYR:CD1	2.50	0.47
16:wJ:99:ARG:HG3	30:wJ:305:PUB:HBD2	1.97	0.47
6:OK:13:ASP:OD2	7:PK:108:ARG:NH1	2.47	0.47
7:VK:170:ASP:HB2	14:MN:97:PHE:CB	2.44	0.47
6:WK:102:THR:HG22	6:WK:155:TYR:CE1	2.50	0.47
6:bK:88:HIS:CD2	6:bK:91:ARG:HH21	2.33	0.47
6:dK:102:THR:HG22	6:dK:155:TYR:CE1	2.50	0.47
7:iK:47:ASN:OD1	7:iK:149:ARG:NH1	2.47	0.47
6:lK:88:HIS:CD2	6:lK:91:ARG:HH21	2.33	0.47
7:BL:118:ILE:HG23	7:TL:118:ILE:O	2.15	0.47
6:EL:74:GLU:N	6:EL:78:LYS:HG3	2.30	0.47
6:EL:85:ASP:OD2	6:EL:127:TYR:OH	2.30	0.47
6:YL:85:ASP:OD2	6:YL:127:TYR:OH	2.30	0.47
6:gL:49:GLU:CD	6:gL:49:GLU:N	2.73	0.47
6:gL:139:CYS:HB3	29:gL:202:PEB:H3A1	1.72	0.47
15:bM:336:SER:OG	15:bM:337:PRO:CD	2.61	0.47
16:AM:77:VAL:HG21	6:hM:14:ALA:HB1	1.97	0.47
6:EM:85:ASP:OD2	6:EM:127:TYR:OH	2.32	0.47
6:GM:157:ASP:OD2	7:JM:46:SER:O	2.33	0.47
7:NM:22:SER:HA	21:oP:147:LYS:N	2.27	0.47
7:DN:113:LEU:O	7:DN:116:THR:OG1	2.29	0.47
7:LO:143:THR:OG1	7:LO:145:THR:OG1	2.31	0.47
9:OO:179:GLU:OE1	9:OO:183:TYR:OH	2.30	0.47
21:DP:94:TYR:CD1	20:CP:8:ILE:HG23	2.50	0.47
20:GP:64:ASP:OD1	20:GP:64:ASP:N	2.42	0.47
21:LP:60:LEU:HD13	21:LP:72:MET:SD	2.55	0.47
21:QP:47:ASN:HB3	21:QP:50:THR:CG2	2.44	0.47
21:UP:47:ASN:HB3	21:UP:50:THR:CG2	2.44	0.47
22:VP:137:THR:HG21	22:VP:153:TYR:CZ	2.50	0.47
21:dP:90:ARG:HD2	20:eP:16:ARG:C	2.40	0.47
21:jP:60:LEU:HD13	21:jP:72:MET:SD	2.55	0.47
23:yP:102:ILE:HG13	23:yP:160:PRO:HG2	1.96	0.47
25:1P:351:LEU:HD11	25:1P:357:PHE:HD1	1.79	0.47
6:AQ:158:TYR:HA	6:AQ:161:ASN:HB2	1.96	0.47
7:DQ:55:ALA:HA	7:DQ:133:ILE:HG21	1.97	0.47
6:WR:137:ARG:HH21	29:WR:202:PEB:C1C	2.27	0.47
4:E1:148:ASN:OD1	5:L1:147:GLY:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J1:18:PHE:HB2	15:bB:335:ILE:HD13	1.82	0.47
6:Z1:88:HIS:CD2	6:Z1:91:ARG:HH21	2.33	0.47
6:b1:88:HIS:CD2	6:b1:91:ARG:HH21	2.33	0.47
8:e2:119:ASP:OD1	8:e2:120:ALA:N	2.48	0.47
6:O2:108:TRP:HD1	7:T2:77:ARG:NH2	2.12	0.47
6:S2:54:GLU:OE1	6:S2:137:ARG:NE	2.48	0.47
6:U2:53:LYS:HA	6:U2:83:TYR:HE2	1.80	0.47
6:W2:8:VAL:HG11	6:W2:26:SER:OG	2.15	0.47
6:W2:44:LEU:O	6:W2:48:HIS:HB3	2.14	0.47
6:K3:74:GLU:H	6:K3:78:LYS:HD3	1.80	0.47
7:N3:83:LEU:CD1	9:O3:402:ILE:HG21	2.45	0.47
7:G4:38:LEU:HA	7:G4:38:LEU:HD23	1.64	0.47
7:I4:51:MET:CE	7:I4:141:PHE:HE2	2.22	0.47
6:J4:90:MET:HA	6:J4:93:VAL:CG2	2.44	0.47
7:M4:58:GLY:HA2	7:M4:61:CYS:SG	2.55	0.47
7:M4:65:GLY:O	7:M4:68:SER:OG	2.15	0.47
7:G5:98:LEU:HD22	12:E5:217:MET:HE1	1.97	0.47
29:I5:201:PEB:CMC	15:bB:403:PRO:CG	2.89	0.47
6:J5:51:VAL:HA	6:J5:54:GLU:HG2	1.97	0.47
7:T7:42:ASN:O	7:T7:46:SER:OG	2.30	0.47
6:W7:52:VAL:HG13	6:W7:86:VAL:HG12	1.96	0.47
7:B8:104:VAL:HB	18:ME:265:LYS:C	2.40	0.47
7:G8:141:PHE:HZ	29:G8:203:PEB:HMA3	1.79	0.47
6:J8:9:VAL:CB	7:K8:95:TYR:CE1	2.96	0.47
12:E8:164:VAL:HG22	29:kF:203:PEB:OD	2.14	0.47
3:B9:62:LYS:HD2	4:C9:116:GLU:OE2	2.14	0.47
3:B9:206:PHE:HE1	21:sP:62:TYR:CE2	2.32	0.47
6:O9:52:VAL:HG13	6:O9:86:VAL:HG12	1.96	0.47
6:CA:128:VAL:HG12	6:CA:163:LEU:HD12	1.97	0.47
6:GA:52:VAL:HG11	6:GA:87:ASP:HA	1.96	0.47
7:HA:158:CYS:HB3	29:HA:202:PEB:HBA1	1.58	0.47
6:IA:32:GLN:N	6:IA:32:GLN:CD	2.73	0.47
14:MA:146:SER:O	14:MA:148:GLY:N	2.48	0.47
16:AB:60:VAL:HG22	7:iB:115:GLU:HB3	1.97	0.47
6:SB:85:ASP:OD2	6:SB:127:TYR:OH	2.32	0.47
6:YB:9:VAL:HG12	6:YB:9:VAL:O	2.14	0.47
7:gB:84:ARG:HB3	7:gB:84:ARG:CZ	2.45	0.47
6:hB:9:VAL:HG12	6:hB:9:VAL:O	2.14	0.47
7:DC:115:GLU:HA	7:DC:118:ILE:HG12	1.97	0.47
7:HC:96:ALA:HB2	7:HC:105:LEU:HB3	1.96	0.47
6:KC:50:ALA:HA	6:KC:53:LYS:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LC:120:LEU:HD23	18:MC:218:GLY:O	2.15	0.47
7:CD:93:VAL:HG21	7:CD:169:PHE:CZ	2.50	0.47
7:GD:71:GLY:O	7:GD:73:CYS:N	2.46	0.47
7:GD:107:ASP:O	7:GD:111:ASN:ND2	2.47	0.47
7:ID:58:GLY:HA2	7:ID:61:CYS:SG	2.55	0.47
7:ID:71:GLY:O	7:ID:73:CYS:N	2.46	0.47
7:KD:39:ASP:OD1	29:KD:202:PEB:H1D1	2.14	0.47
7:MD:125:ASN:OD1	6:UI:69:PRO:HG3	2.15	0.47
7:JE:125:ASN:OD1	7:JE:125:ASN:N	2.48	0.47
6:KE:136:ASP:OD1	6:KE:136:ASP:N	2.42	0.47
18:ME:141:ARG:HH12	18:ME:144:ARG:NH2	2.13	0.47
3:BF:205:ARG:HB2	20:rP:76:GLU:HG3	1.96	0.47
5:Nf:35:ASN:HD22	29:Nf:1002:PEB:HND	1.62	0.47
5:Nf:74:TYR:C	5:Nf:75:THR:HG23	2.40	0.47
7:PF:144:ASN:HD21	7:PF:153:PHE:HD2	1.62	0.47
6:hF:6:THR:HA	7:iF:1:MET:HE2	1.97	0.47
7:kF:131:VAL:HA	7:kF:134:MET:HB2	1.97	0.47
7:HG:113:LEU:O	7:HG:116:THR:OG1	2.29	0.47
6:IG:2:LYS:NZ	14:MG:254:VAL:CB	2.78	0.47
7:JG:129:ARG:HH21	7:JG:133:ILE:HG13	1.80	0.47
7:LG:55:ALA:HA	7:LG:133:ILE:HG21	1.97	0.47
7:LG:117:TYR:O	7:LG:122:VAL:N	2.44	0.47
13:kH:93:MET:CE	13:kH:142:SER:HB2	2.42	0.47
3:BI:68:PHE:CE1	5:DI:88:ILE:HD11	2.50	0.47
5:HI:35:ASN:HD22	29:HI:1002:PEB:HND	1.62	0.47
5:HI:37:ARG:NH1	5:HI:97:MET:O	2.47	0.47
5:JI:18:PHE:HB2	27:aP:96:ILE:O	2.15	0.47
7:TI:139:VAL:HG13	7:TI:162:ALA:HB1	1.97	0.47
7:gI:144:ASN:HD21	7:gI:153:PHE:HD2	1.61	0.47
7:kI:56:VAL:HG12	7:kI:79:MET:HE1	1.97	0.47
7:DJ:24:LEU:O	7:DJ:26:ALA:N	2.48	0.47
7:HJ:97:LEU:HD13	7:HJ:165:VAL:HB	1.97	0.47
7:JJ:97:LEU:HD13	7:JJ:165:VAL:HB	1.97	0.47
6:UJ:71:GLU:N	6:UJ:74:GLU:CG	2.76	0.47
6:aJ:74:GLU:N	6:aJ:78:LYS:HG3	2.30	0.47
7:nJ:35:ASN:OD1	29:nJ:202:PEB:ND	2.48	0.47
1:XK:308:GLU:OE1	1:XK:367:SER:OG	2.33	0.47
2:AK:92:PHE:HD2	2:AK:176:ALA:HB1	1.79	0.47
4:MK:93:ARG:HG3	5:NK:18:PHE:CD1	2.49	0.47
6:OK:88:HIS:CD2	6:OK:91:ARG:HH21	2.33	0.47
7:RK:97:LEU:CD1	7:RK:165:VAL:HG23	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HL:131:VAL:HA	7:HL:134:MET:HE3	1.96	0.47
6:aL:74:GLU:N	6:aL:78:LYS:HG3	2.30	0.47
7:IL:97:LEU:HD13	7:IL:165:VAL:HB	1.97	0.47
6:oL:74:GLU:N	6:oL:78:LYS:HG3	2.30	0.47
7:tL:97:LEU:HD13	7:tL:165:VAL:HB	1.97	0.47
19:zL:329:ILE:HG21	20:NP:66:VAL:HB	1.95	0.47
7:VM:10:VAL:O	7:VM:10:VAL:HG12	2.15	0.47
6:fM:85:ASP:OD2	6:fM:127:TYR:OH	2.32	0.47
7:BN:128:ILE:HA	7:BN:131:VAL:HG12	1.96	0.47
6:CN:52:VAL:HG11	6:CN:87:ASP:HA	1.96	0.47
6:EN:128:VAL:HG12	6:EN:163:LEU:HD12	1.97	0.47
7:FN:128:ILE:HA	7:FN:131:VAL:HG12	1.96	0.47
6:KN:98:VAL:HG21	7:LN:19:VAL:HG23	1.97	0.47
14:MN:146:SER:O	14:MN:148:GLY:N	2.48	0.47
6:AO:22:SER:HB3	6:CO:101:GLY:HA2	1.97	0.47
6:IO:74:GLU:H	6:IO:78:LYS:HD3	1.80	0.47
6:KO:53:LYS:C	6:KO:53:LYS:HD3	2.39	0.47
20:AP:30:VAL:HG11	21:BP:34:GLY:HA3	1.95	0.47
21:HP:47:ASN:HB3	21:HP:50:THR:CG2	2.44	0.47
21:IP:65:ILE:O	21:IP:70:GLY:HA3	2.14	0.47
21:LP:47:ASN:HB3	21:LP:50:THR:CG2	2.44	0.47
21:MP:87:TYR:CZ	25:YP:300:VAL:HG22	2.50	0.47
25:YP:482:ARG:HD3	25:YP:645:TYR:CE1	2.50	0.47
20:IP:20:PRO:CG	20:pP:101:VAL:CG1	2.88	0.47
20:rP:32:SER:CB	26:2P:120:PHE:HA	2.45	0.47
25:1P:482:ARG:HD3	25:1P:645:TYR:CE1	2.50	0.47
7:DQ:140:ALA:CB	29:DQ:203:PEB:HBB2	2.44	0.47
7:LQ:128:ILE:HA	7:LQ:131:VAL:HG12	1.97	0.47
14:MQ:231:ASN:HB3	14:MQ:234:GLU:HB2	1.96	0.47
6:SR:131:ILE:CG2	6:SR:160:ILE:CG1	2.93	0.47
6:UR:43:LYS:HG2	6:UR:144:MET:HE3	1.95	0.47
1:X1:241:SER:HA	1:X1:245:ASP:HB2	1.97	0.47
1:X1:308:GLU:OE1	1:X1:367:SER:OG	2.33	0.47
2:A1:116:ARG:HH22	7:k1:77:ARG:HD3	1.80	0.47
3:B1:15:GLN:N	3:B1:15:GLN:CD	2.73	0.47
5:N1:94:SER:O	5:N1:98:ILE:CG1	2.63	0.47
6:Q1:102:THR:HG22	6:Q1:155:TYR:CE1	2.50	0.47
6:U2:138:LEU:HD11	6:U2:152:PHE:CD2	2.50	0.47
6:W2:138:LEU:HD13	29:W2:202:PEB:CMD	2.45	0.47
6:A3:42:GLU:OE2	7:B3:24:LEU:HD13	2.15	0.47
6:E3:106:ASP:HA	6:E3:110:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O3:158:ALA:HB3	9:O3:215:ARG:HB3	1.97	0.47
6:B4:113:ALA:C	6:B4:116:VAL:HG22	2.40	0.47
7:C4:71:GLY:C	7:C4:73:CYS:H	2.21	0.47
7:C4:75:THR:HA	29:F4:201:PEB:HBD2	1.97	0.47
7:C4:93:VAL:HG21	7:C4:169:PHE:CZ	2.50	0.47
6:H4:161:ASN:OD1	6:H4:161:ASN:N	2.48	0.47
7:I4:39:ASP:OD1	29:I4:202:PEB:H1D1	2.14	0.47
7:K4:58:GLY:HA2	7:K4:61:CYS:SG	2.55	0.47
6:L4:113:ALA:C	6:L4:116:VAL:HG22	2.40	0.47
6:L4:114:ARG:O	6:L4:118:ARG:NH2	2.47	0.47
7:M4:41:VAL:HG22	7:M4:97:LEU:HD21	1.96	0.47
7:I5:79:MET:CE	15:bB:229:LEU:HD12	2.40	0.47
7:I5:79:MET:CG	15:bB:229:LEU:CG	2.81	0.47
6:J5:9:VAL:HG13	7:K5:95:TYR:CD1	2.45	0.47
7:L5:83:LEU:HD22	13:k6:231:ALA:CB	2.43	0.47
12:E5:43:ALA:HB3	7:a9:29:SER:OG	2.14	0.47
13:k6:18:ARG:HB3	6:YB:49:GLU:HG2	1.96	0.47
13:k6:183:TYR:OH	13:k6:202:LYS:HE3	2.14	0.47
7:V7:169:PHE:O	7:V7:172:VAL:HG12	2.12	0.47
6:l7:137:ARG:NH2	29:l7:202:PEB:C4B	2.78	0.47
7:I8:7:ARG:NH2	28:4P:138:LEU:CD2	2.78	0.47
6:J8:51:VAL:HA	6:J8:54:GLU:HG2	1.97	0.47
7:K8:92:TYR:CE1	7:K8:108:ARG:CB	2.98	0.47
7:L8:36:LYS:NZ	7:L8:158:CYS:SG	2.87	0.47
7:A8:108:ARG:HA	7:A8:108:ARG:HD3	1.72	0.47
7:C8:73:CYS:O	7:C8:79:MET:SD	2.73	0.47
6:f9:33:ARG:NH2	29:i9:202:PEB:HAD1	2.30	0.47
6:l9:90:MET:HA	6:l9:93:VAL:CG1	2.45	0.47
7:FA:133:ILE:HG23	29:FA:203:PEB:HBC1	1.97	0.47
6:IA:2:LYS:NZ	14:MA:253:GLY:HA3	2.30	0.47
15:bB:265:LYS:HA	15:bB:268:ALA:HB2	1.97	0.47
15:bB:346:ILE:HG21	20:JP:60:GLN:HA	1.97	0.47
7:BC:79:MET:HE2	29:EC:201:PEB:HAC1	1.96	0.47
7:HC:115:GLU:HA	7:HC:118:ILE:HG12	1.97	0.47
7:JC:75:THR:O	7:JC:79:MET:HG2	2.15	0.47
18:MC:65:LYS:CD	18:MC:98:LEU:HD22	2.43	0.47
18:MC:214:ASP:C	18:MC:216:ARG:N	2.73	0.47
18:MC:277:ARG:CZ	5:DF:17:GLU:OE1	2.54	0.47
10:dD:101:SER:CB	7:CD:84:ARG:NH1	2.78	0.47
10:dD:121:ASP:HA	10:dD:124:ARG:NH1	2.30	0.47
6:BD:117:TYR:O	6:BD:121:ASN:N	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CD:58:GLY:HA2	7:CD:61:CYS:SG	2.55	0.47
6:DD:43:LYS:HA	6:DD:43:LYS:HD2	1.70	0.47
7:ID:15:LYS:HE2	7:ID:15:LYS:HB2	1.64	0.47
7:KD:93:VAL:HG21	7:KD:169:PHE:CZ	2.50	0.47
6:LD:113:ALA:C	6:LD:116:VAL:HG22	2.40	0.47
18:ME:301:ASN:ND2	6:gL:53:LYS:CE	2.76	0.47
18:ME:303:PHE:CD1	18:ME:303:PHE:N	2.83	0.47
18:ME:312:LEU:CD2	7:vL:68:SER:C	2.88	0.47
3:BF:210:GLU:C	27:3P:71:VAL:CG2	2.88	0.47
6:EG:136:ASP:OD1	6:EG:136:ASP:N	2.30	0.47
7:FG:129:ARG:HH21	7:FG:133:ILE:HG13	1.80	0.47
7:LG:136:ALA:HB1	29:LG:203:PEB:O2C	2.15	0.47
14:MG:231:ASN:HB3	14:MG:234:GLU:HB2	1.96	0.47
13:kH:245:VAL:HG11	6:OR:79:ILE:HD13	1.97	0.47
7:iL:139:VAL:HG13	7:iL:162:ALA:HB1	1.97	0.47
6:CJ:72:ALA:HB1	29:CJ:201:PEB:CMA	2.45	0.47
7:LJ:97:LEU:HD13	7:LJ:165:VAL:HB	1.97	0.47
7:PJ:19:VAL:HG23	7:PJ:24:LEU:HG	1.96	0.47
6:iJ:71:GLU:HB3	6:iJ:72:ALA:H	1.56	0.47
7:IJ:97:LEU:HD13	7:IJ:165:VAL:HB	1.97	0.47
6:mJ:98:VAL:HG21	7:nJ:19:VAL:HG21	1.97	0.47
1:XK:145:SER:OG	1:XK:243:GLN:O	2.30	0.47
5:JK:17:GLU:CG	15:bM:340:GLU:HG2	2.36	0.47
6:UK:153:SER:O	6:UK:157:ASP:OD2	2.31	0.47
7:VK:47:ASN:OD1	7:VK:149:ARG:NH1	2.47	0.47
6:jK:102:THR:HG22	6:jK:155:TYR:CE1	2.50	0.47
29:AL:203:PEB:ND	7:DL:35:ASN:OD1	2.48	0.47
6:aL:5:ILE:HD12	7:bL:3:ASP:OD2	2.14	0.47
6:cL:139:CYS:HB3	29:cL:202:PEB:H3A1	1.72	0.47
7:jL:1:MET:HE3	7:jL:1:MET:HB2	1.80	0.47
6:mL:98:VAL:HG21	7:nL:19:VAL:HG21	1.97	0.47
6:qL:74:GLU:N	6:qL:78:LYS:HG3	2.30	0.47
17:BM:80:LYS:NZ	7:DM:115:GLU:CD	2.73	0.47
6:EM:9:VAL:O	6:EM:9:VAL:HG12	2.14	0.47
7:LM:85:ASP:HB3	29:LM:201:PEB:HHC1	1.97	0.47
6:WM:9:VAL:HG12	6:WM:9:VAL:O	2.14	0.47
6:GN:52:VAL:HG11	6:GN:87:ASP:HA	1.96	0.47
6:IN:32:GLN:CD	6:IN:32:GLN:N	2.73	0.47
6:IN:37:ARG:HD2	6:IN:97:LEU:HA	1.97	0.47
6:KN:52:VAL:HG11	6:KN:87:ASP:HA	1.96	0.47
6:KN:128:VAL:HG12	6:KN:163:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GO:34:SER:HA	6:GO:37:ARG:HG2	1.97	0.47
20:GP:38:ARG:O	20:GP:41:GLN:HB3	2.15	0.47
20:KP:38:ARG:O	20:KP:41:GLN:HB3	2.15	0.47
20:RP:16:ARG:HG3	20:RP:16:ARG:HH11	1.80	0.47
24:XP:68:CYS:SG	24:XP:95:MET:HB3	2.55	0.47
25:YP:687:LEU:CD2	21:wP:151:LEU:HD21	2.44	0.47
21:oP:65:ILE:O	21:oP:70:GLY:HA3	2.15	0.47
20:tP:38:ARG:O	20:tP:41:GLN:HB3	2.15	0.47
20:vP:102:THR:HB	20:vP:103:PRO:HD3	1.98	0.47
22:xP:137:THR:HG21	22:xP:153:TYR:CZ	2.50	0.47
7:BQ:157:ASP:OD2	7:BQ:159:THR:OG1	2.27	0.47
6:CQ:158:TYR:HA	6:CQ:161:ASN:HB2	1.96	0.47
6:GQ:150:VAL:O	6:GQ:153:SER:OG	2.29	0.47
6:IQ:2:LYS:HZ3	14:MQ:253:GLY:C	2.23	0.47
6:OR:54:GLU:CD	29:OR:202:PEB:HMC1	2.40	0.47
7:VR:38:LEU:HD13	29:VR:202:PEB:C3D	2.44	0.47
6:WR:63:TYR:HB3	6:WR:65:TYR:CE1	2.49	0.47
6:WR:142:ARG:NH2	29:WR:202:PEB:HHA1	2.30	0.47
7:XR:51:MET:CA	7:XR:137:GLN:HE22	2.28	0.47
4:C1:114:GLY:O	4:C1:117:GLU:OE1	2.33	0.46
5:D1:154:SER:HA	5:D1:157:VAL:HG22	1.96	0.46
5:F1:14:ALA:O	7:P1:125:ASN:ND2	2.48	0.46
5:H1:35:ASN:CG	29:H1:1002:PEB:O1C	2.59	0.46
4:M1:1:MET:HE1	5:N1:9:VAL:CG1	2.45	0.46
6:Z1:49:GLU:O	6:Z1:53:LYS:HB3	2.15	0.46
6:l1:102:THR:HG22	6:l1:155:TYR:CE1	2.50	0.46
6:A3:22:SER:HB3	6:C3:101:GLY:HA2	1.97	0.46
6:C3:34:SER:HA	6:C3:37:ARG:HG2	1.97	0.46
7:D3:37:ARG:NH1	7:D3:97:LEU:O	2.46	0.46
6:E3:138:LEU:HD11	6:E3:149:GLY:HA2	1.97	0.46
6:G3:34:SER:HA	6:G3:37:ARG:HG2	1.97	0.46
10:d4:69:GLU:HG2	10:d4:70:ASP:N	2.29	0.46
6:D4:84:ARG:HG2	6:D4:85:ASP:N	2.26	0.46
6:D4:161:ASN:N	6:D4:161:ASN:OD1	2.47	0.46
29:E4:202:PEB:HBA3	29:E4:202:PEB:HHA1	1.97	0.46
6:F4:117:TYR:O	6:F4:121:ASN:N	2.49	0.46
6:J4:44:LEU:HD12	6:J4:44:LEU:HA	1.80	0.46
29:K4:202:PEB:HBA3	29:K4:202:PEB:HHA1	1.96	0.46
7:B5:104:VAL:HG22	18:MC:266:GLY:HA2	1.79	0.46
6:J5:113:ALA:HB2	26:2P:65:LEU:HD21	1.97	0.46
7:K5:40:ALA:HA	7:K5:142:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C7:122:PHE:HE2	5:F7:83:LEU:HD11	1.80	0.46
6:O7:52:VAL:HG13	6:O7:86:VAL:HG12	1.96	0.46
6:U7:5:ILE:HD13	7:V7:99:ALA:HA	1.98	0.46
7:I8:28:LYS:HZ3	19:zJ:291:ILE:HG12	1.79	0.46
1:X9:75:SER:O	1:X9:75:SER:OG	2.31	0.46
1:X9:293:ASN:O	1:X9:340:PHE:N	2.39	0.46
3:B9:34:THR:HG23	3:B9:80:ILE:HD11	1.97	0.46
3:B9:123:ARG:HH12	26:ZP:53:ILE:CD1	2.28	0.46
5:L9:121:GLY:HA2	26:ZP:60:ARG:NH1	2.30	0.46
4:M9:3:THR:OG1	4:M9:6:THR:OG1	2.29	0.46
6:Q9:53:LYS:NZ	4:EK:50:ARG:N	2.62	0.46
6:W9:53:LYS:HA	6:W9:53:LYS:HD3	1.71	0.46
6:l9:53:LYS:HA	6:l9:53:LYS:HD3	1.71	0.46
7:BA:116:THR:HG21	14:MA:122:PHE:HD2	1.78	0.46
7:HC:125:ASN:OD1	7:HC:125:ASN:N	2.48	0.46
18:MC:146:GLN:OE1	18:MC:146:GLN:HA	2.15	0.46
6:BD:28:GLN:O	6:BD:32:GLN:NE2	2.43	0.46
7:CD:137:GLN:OE1	29:CD:203:PEB:CHA	2.63	0.46
6:DD:16:GLY:HA2	7:ED:91:ARG:HH22	1.79	0.46
7:GD:165:VAL:HA	7:GD:168:TYR:CD2	2.40	0.46
7:HE:125:ASN:OD1	7:HE:125:ASN:N	2.48	0.46
3:BF:68:PHE:CE1	5:DF:88:ILE:HD11	2.50	0.46
5:LF:37:ARG:NH1	5:LF:97:MET:O	2.47	0.46
5:Nf:4:ALA:HB3	5:Nf:30:MET:HE1	1.97	0.46
6:OF:91:ARG:HD3	7:PF:18:TYR:CE1	2.50	0.46
7:DG:50:CYS:SG	29:DG:203:PEB:CAA	3.02	0.46
7:HG:117:TYR:O	7:HG:122:VAL:N	2.44	0.46
6:IG:54:GLU:OE1	6:IG:137:ARG:NH2	2.37	0.46
7:JG:128:ILE:HA	7:JG:131:VAL:HG12	1.97	0.46
7:LG:128:ILE:HA	7:LG:131:VAL:HG12	1.97	0.46
13:kH:10:TYR:CE1	6:YM:53:LYS:HD3	2.50	0.46
13:kH:198:MET:O	13:kH:201:MET:HG2	2.15	0.46
5:JI:22:THR:OG1	27:aP:92:PRO:CB	2.62	0.46
7:TI:147:THR:HB	7:TI:148:GLU:OE1	2.15	0.46
6:WI:140:VAL:CG1	6:WI:146:ALA:HA	2.45	0.46
7:FJ:97:LEU:HD13	7:FJ:165:VAL:HB	1.97	0.46
7:FJ:143:THR:HB	25:YP:514:ILE:HG12	1.97	0.46
7:NJ:1:MET:HE3	7:NJ:1:MET:HB2	1.80	0.46
7:RJ:97:LEU:HD13	7:RJ:165:VAL:HB	1.97	0.46
7:TJ:25:GLN:HE21	25:YP:521:THR:HG21	0.81	0.46
7:VJ:97:LEU:HD13	7:VJ:165:VAL:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:jJ:97:LEU:HD13	7:jJ:165:VAL:HB	1.97	0.46
6:mJ:74:GLU:N	6:mJ:78:LYS:HG3	2.30	0.46
6:mJ:98:VAL:HG13	7:nJ:27:LEU:HD13	1.97	0.46
19:zJ:339:VAL:HG11	20:tP:63:PRO:HB2	1.96	0.46
19:zJ:363:ARG:NE	21:nP:67:ARG:HH12	2.13	0.46
5:DK:40:ILE:CD1	5:DK:156:LEU:HB3	2.44	0.46
4:MK:94:MET:HB2	4:MK:111:LEU:HD11	1.97	0.46
5:NK:33:GLU:HG2	5:NK:36:GLN:CB	2.28	0.46
6:fK:157:ASP:OD2	7:iK:46:SER:CB	2.61	0.46
6:hK:102:THR:HG22	6:hK:155:TYR:CE1	2.50	0.46
7:kK:97:LEU:CD1	7:kK:165:VAL:HG23	2.40	0.46
7:mK:47:ASN:OD1	7:mK:149:ARG:NH1	2.47	0.46
7:BL:97:LEU:HD13	7:BL:165:VAL:HB	1.97	0.46
7:BL:118:ILE:O	7:TL:118:ILE:HD11	2.15	0.46
6:CL:72:ALA:HB1	29:CL:201:PEB:CMA	2.45	0.46
6:EL:139:CYS:HB3	29:EL:202:PEB:H3A1	1.72	0.46
6:KL:66:LEU:HD22	29:KL:201:PEB:HMA2	1.95	0.46
7:NL:114:LYS:HG2	7:NL:176:ILE:O	2.14	0.46
7:VL:116:THR:O	7:VL:120:LEU:HD12	2.15	0.46
6:mL:6:THR:HG22	7:nL:1:MET:HE2	1.96	0.46
7:tL:35:ASN:OD1	29:uL:201:PEB:ND	2.48	0.46
6:uL:43:LYS:HA	6:uL:43:LYS:HD2	1.67	0.46
16:wL:179:ALA:C	16:xL:40:VAL:CG2	2.88	0.46
15:bM:370:TYR:HE2	21:oP:58:LYS:O	1.96	0.46
6:OM:85:ASP:OD2	6:OM:127:TYR:OH	2.32	0.46
7:iM:10:VAL:HG12	7:iM:10:VAL:O	2.16	0.46
6:AN:34:SER:HA	6:AN:37:ARG:NH2	2.30	0.46
6:EN:34:SER:HA	6:EN:37:ARG:NH2	2.30	0.46
7:HN:133:ILE:HG23	29:HN:203:PEB:HBC1	1.97	0.46
7:JN:75:THR:OG1	7:JN:76:ASN:N	2.41	0.46
6:KN:34:SER:HA	6:KN:37:ARG:NH2	2.30	0.46
14:MN:296:ASN:HA	14:MN:299:ARG:CD	2.45	0.46
9:OO:169:GLN:O	9:OO:173:THR:OG1	2.31	0.46
20:AP:102:THR:HB	20:AP:103:PRO:HD3	1.97	0.46
21:IP:72:MET:HE2	21:IP:78:TYR:CD2	2.49	0.46
20:NP:16:ARG:HG3	20:NP:16:ARG:HH11	1.81	0.46
20:PP:38:ARG:O	20:PP:41:GLN:HB3	2.15	0.46
25:YP:42:GLN:HG3	25:YP:42:GLN:O	2.15	0.46
25:YP:45:SER:HA	25:YP:48:ASN:OD1	2.14	0.46
20:eP:64:ASP:OD1	20:eP:64:ASP:N	2.42	0.46
20:gP:38:ARG:O	20:gP:41:GLN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:iP:20:PRO:HB3	22:xP:151:PRO:CB	2.45	0.46
20:lP:102:THR:HB	20:lP:103:PRO:HD3	1.97	0.46
21:oP:61:LEU:HA	21:oP:66:THR:HG21	1.97	0.46
21:oP:62:TYR:C	21:oP:67:ARG:NH2	2.66	0.46
20:pP:38:ARG:O	20:pP:41:GLN:HB3	2.15	0.46
20:vP:38:ARG:O	20:vP:41:GLN:HB3	2.15	0.46
22:xP:98:ALA:O	22:xP:100:ASP:N	2.42	0.46
28:4P:175:GLY:HA2	28:4P:179:LEU:O	2.15	0.46
7:DQ:129:ARG:HH21	7:DQ:133:ILE:HG13	1.80	0.46
7:FQ:55:ALA:HA	7:FQ:133:ILE:HG21	1.97	0.46
7:FQ:129:ARG:HH21	7:FQ:133:ILE:HG13	1.80	0.46
7:JQ:128:ILE:HA	7:JQ:131:VAL:HG12	1.97	0.46
6:SR:140:VAL:HG13	6:SR:146:ALA:HA	1.92	0.46
6:UR:63:TYR:HB3	6:UR:65:TYR:CE1	2.49	0.46
4:C1:2:LYS:HD3	4:C1:7:GLU:OE2	2.15	0.46
4:E1:3:THR:CB	4:E1:4:PRO:CD	2.93	0.46
5:F1:47:ASN:CG	5:F1:141:LEU:CD2	2.86	0.46
7:V1:97:LEU:CD1	7:V1:165:VAL:HG23	2.40	0.46
7:V1:163:SER:HB2	14:MA:101:LEU:CD1	2.39	0.46
8:e2:293:THR:HG23	7:T2:135:LYS:HZ1	1.74	0.46
6:O2:140:VAL:CG1	6:O2:146:ALA:HA	2.46	0.46
6:Q2:142:ARG:NH1	29:Q2:202:PEB:C2B	2.78	0.46
6:A3:74:GLU:H	6:A3:78:LYS:HD3	1.80	0.46
6:C3:74:GLU:H	6:C3:78:LYS:HD3	1.80	0.46
6:E3:54:GLU:HG3	29:E3:202:PEB:HMC2	1.97	0.46
6:E3:91:ARG:HA	7:F3:18:TYR:CE2	2.51	0.46
7:F3:84:ARG:HH22	9:O3:169:GLN:HG2	1.79	0.46
7:H3:53:SER:O	7:H3:57:SER:OG	2.27	0.46
7:H3:107:ASP:HA	7:H3:111:ASN:HB2	1.97	0.46
10:d4:288:ARG:HH22	7:TF:62:GLU:HA	1.81	0.46
6:B4:161:ASN:N	6:B4:161:ASN:OD1	2.47	0.46
6:D4:59:CYS:SG	6:D4:60:PHE:N	2.89	0.46
6:D4:113:ALA:C	6:D4:116:VAL:HG22	2.40	0.46
7:E4:73:CYS:HA	7:E4:78:ARG:HB3	1.97	0.46
7:E4:93:VAL:HG21	7:E4:169:PHE:CZ	2.50	0.46
6:H4:81:LYS:HZ1	29:H4:201:PEB:CHB	2.28	0.46
6:J4:117:TYR:O	6:J4:121:ASN:N	2.49	0.46
7:M4:15:LYS:HE2	7:M4:15:LYS:HB2	1.64	0.46
7:L5:70:GLY:O	6:WB:61:ALA:CB	2.62	0.46
1:X7:348:GLN:HB3	1:X7:352:LYS:HE2	1.95	0.46
3:B7:149:GLU:O	3:B7:153:ASN:ND2	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C7:90:TYR:CZ	5:F7:74:TYR:CE1	3.01	0.46
6:Z7:53:LYS:HD3	6:Z7:53:LYS:HA	1.71	0.46
7:G8:98:LEU:HD22	12:E8:217:MET:HE1	1.96	0.46
7:I8:24:LEU:C	19:zJ:291:ILE:HG23	2.40	0.46
7:I8:40:ALA:HA	7:I8:142:ILE:HD11	1.97	0.46
7:A8:76:ASN:HD22	7:C8:119:ALA:CB	2.26	0.46
12:E8:216:ALA:N	12:E8:237:GLN:O	2.45	0.46
3:B9:205:ARG:HH22	21:sP:62:TYR:N	2.13	0.46
5:L9:18:PHE:CG	20:vP:67:SER:OG	2.63	0.46
5:N9:90:LEU:O	5:N9:94:SER:OG	2.33	0.46
6:Q9:49:GLU:HG2	4:EK:46:GLY:HA3	1.96	0.46
6:W9:52:VAL:HG13	6:W9:86:VAL:HG12	1.96	0.46
7:FA:81:ALA:HB1	14:MA:174:ARG:HH22	1.80	0.46
6:IA:14:ALA:HA	14:MA:260:ALA:HB1	1.96	0.46
15:bB:333:ARG:HB2	15:bB:333:ARG:CZ	2.43	0.46
17:BB:126:MET:HE1	17:BB:232:GLN:HB3	1.98	0.46
7:DB:10:VAL:O	7:DB:10:VAL:HG12	2.15	0.46
6:OB:9:VAL:O	6:OB:9:VAL:HG12	2.14	0.46
7:PB:85:ASP:HB3	29:PB:201:PEB:HHC1	1.97	0.46
7:PB:141:PHE:HZ	29:PB:202:PEB:HMA3	1.81	0.46
7:VB:97:LEU:HD13	7:VB:165:VAL:HB	1.98	0.46
7:ZB:10:VAL:O	7:ZB:10:VAL:HG12	2.16	0.46
6:lB:54:GLU:CD	29:lB:202:PEB:CMC	2.75	0.46
6:CC:33:ARG:NH1	6:CC:147:GLN:NE2	2.63	0.46
18:MC:284:LEU:CD1	4:CF:93:ARG:HD3	2.45	0.46
7:CD:149:ARG:CZ	6:DD:135:ARG:NH2	2.78	0.46
6:DD:113:ALA:C	6:DD:116:VAL:HG22	2.40	0.46
7:KD:135:LYS:NZ	7:KD:169:PHE:HB2	2.30	0.46
7:DE:75:THR:O	7:DE:79:MET:HG2	2.15	0.46
18:ME:59:GLU:CD	18:ME:59:GLU:N	2.73	0.46
18:ME:255:LYS:C	18:ME:256:THR:HG23	2.40	0.46
4:CF:18:PHE:HB3	5:DF:45:THR:HG23	1.97	0.46
4:CF:155:ASP:HB3	5:Nf:46:SER:HB2	1.96	0.46
4:EF:25:GLN:HG2	4:KF:33:ARG:HG2	1.97	0.46
7:TF:139:VAL:HG13	7:TF:162:ALA:HB1	1.97	0.46
6:fF:140:VAL:CG1	6:fF:146:ALA:HA	2.45	0.46
7:iF:2:LEU:HD11	7:iF:6:SER:HB2	1.97	0.46
7:BG:125:ASN:N	7:BG:125:ASN:OD1	2.46	0.46
7:BG:128:ILE:HA	7:BG:131:VAL:HG12	1.97	0.46
7:BG:129:ARG:HH21	7:BG:133:ILE:HG13	1.80	0.46
6:EG:158:TYR:HA	6:EG:161:ASN:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FG:201:PEB:HBB2	14:MG:174:ARG:NH2	2.31	0.46
6:GG:33:ARG:O	6:GG:37:ARG:N	2.34	0.46
6:GG:158:TYR:HA	6:GG:161:ASN:HB2	1.96	0.46
14:MG:103:ARG:CD	14:MG:103:ARG:H	2.29	0.46
3:BI:168:PRO:HB2	5:LI:77:ARG:NH1	2.31	0.46
5:FI:4:ALA:HB3	5:FI:30:MET:HE1	1.97	0.46
5:LI:4:ALA:HB3	5:LI:30:MET:HE1	1.97	0.46
6:II:140:VAL:CG1	6:II:146:ALA:HA	2.45	0.46
6:SJ:139:CYS:HB3	29:SJ:202:PEB:H3A1	1.72	0.46
7:TJ:97:LEU:HD13	7:TJ:165:VAL:HB	1.97	0.46
7:pJ:69:PRO:HG2	7:tJ:16:ALA:HB2	1.97	0.46
6:qJ:85:ASP:OD2	6:qJ:127:TYR:OH	2.30	0.46
6:uJ:68:ASN:CB	6:uJ:71:GLU:OE2	2.60	0.46
19:zJ:217:ALA:HB1	19:zJ:218:PRO:CD	2.07	0.46
2:AK:101:ILE:O	2:AK:101:ILE:HG12	2.11	0.46
5:JK:47:ASN:ND2	5:JK:141:LEU:HD11	2.28	0.46
5:NK:94:SER:O	5:NK:98:ILE:CG1	2.63	0.46
6:SK:135:ARG:CD	6:SK:157:ASP:OD1	2.63	0.46
7:aK:47:ASN:OD1	7:aK:149:ARG:NH1	2.47	0.46
6:bK:28:GLN:HG2	6:dK:33:ARG:NE	2.28	0.46
6:fK:102:THR:HG22	6:fK:155:TYR:CE1	2.50	0.46
7:gK:47:ASN:OD1	7:gK:149:ARG:NH1	2.47	0.46
6:GL:72:ALA:CB	29:GL:201:PEB:C1A	2.86	0.46
6:IL:139:CYS:HB3	29:IL:202:PEB:H3A1	1.72	0.46
7:ZL:97:LEU:HD13	7:ZL:165:VAL:HB	1.97	0.46
7:jL:35:ASN:OD1	29:jL:202:PEB:ND	2.48	0.46
6:mL:91:ARG:CZ	7:nL:16:ALA:HA	2.46	0.46
6:sL:74:GLU:N	6:sL:78:LYS:HG3	2.30	0.46
6:uL:114:ARG:HH21	16:xL:93:GLY:HA3	1.80	0.46
16:wL:41:ASN:ND2	16:wL:41:ASN:C	2.73	0.46
16:wL:99:ARG:HG3	30:wL:305:PUB:HBD2	1.97	0.46
16:xL:102:ALA:CB	16:xL:105:ARG:CD	2.83	0.46
15:bM:240:MET:HB3	15:bM:240:MET:HE2	1.77	0.46
15:bM:383:ASP:OD2	28:4P:43:TYR:OH	2.32	0.46
7:FM:97:LEU:HD13	7:FM:165:VAL:HB	1.98	0.46
7:NM:97:LEU:HD13	7:NM:165:VAL:HB	1.98	0.46
6:OM:9:VAL:O	6:OM:9:VAL:HG12	2.14	0.46
6:fM:9:VAL:O	6:fM:9:VAL:HG12	2.14	0.46
6:KN:59:CYS:O	6:KN:63:TYR:N	2.46	0.46
7:BO:42:ASN:O	7:BO:46:SER:OG	2.26	0.46
6:EO:106:ASP:HA	6:EO:110:ILE:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DP:1001:CYC:HAA1	25:YP:481:ILE:HG23	1.96	0.46
21:OP:6:THR:HG23	28:bP:50:TYR:CZ	2.50	0.46
20:RP:64:ASP:OD1	20:RP:64:ASP:N	2.42	0.46
20:cP:16:ARG:HG3	20:cP:16:ARG:HH11	1.81	0.46
20:gP:49:ARG:HH21	20:gP:140:LEU:HD22	1.81	0.46
20:IP:38:ARG:O	20:IP:41:GLN:HB3	2.15	0.46
20:rP:16:ARG:HG3	20:rP:16:ARG:HH11	1.80	0.46
21:sP:27:LEU:HD13	20:tP:37:LEU:HD21	1.96	0.46
22:xP:51:ILE:HG23	22:xP:85:TYR:HB3	1.96	0.46
25:1P:691:LYS:HB3	25:1P:691:LYS:HE2	1.69	0.46
7:BQ:55:ALA:HA	7:BQ:133:ILE:HG21	1.97	0.46
7:HQ:128:ILE:HA	7:HQ:131:VAL:HG12	1.97	0.46
6:KQ:158:TYR:HA	6:KQ:161:ASN:HB2	1.96	0.46
29:MR:202:PEB:CHB	29:MR:202:PEB:CGC	2.93	0.46
6:QR:63:TYR:HB3	6:QR:65:TYR:CE1	2.49	0.46
6:UR:115:GLU:N	6:UR:115:GLU:CD	2.73	0.46
6:WR:142:ARG:HB3	29:WR:202:PEB:HBA1	1.96	0.46
2:A1:92:PHE:HD2	2:A1:176:ALA:HB1	1.79	0.46
7:V1:163:SER:HB3	14:MA:101:LEU:HB2	1.97	0.46
7:a1:124:THR:O	7:a1:127:SER:OG	2.23	0.46
7:k1:97:LEU:CD1	7:k1:165:VAL:HG23	2.40	0.46
6:l1:88:HIS:CD2	6:l1:91:ARG:HH21	2.33	0.46
6:O2:69:PRO:HG2	13:k6:232:PHE:CB	2.44	0.46
6:O2:115:GLU:HA	6:O2:118:ARG:NH2	2.30	0.46
6:S2:85:ASP:CG	29:S2:201:PEB:H1D1	2.29	0.46
6:U2:116:VAL:CG1	6:U2:120:LEU:HD12	2.41	0.46
9:O3:324:SER:OG	9:O3:327:HIS:N	2.49	0.46
6:B4:2:LYS:HD2	6:D4:17:ARG:HH12	1.81	0.46
7:E4:41:VAL:HG21	7:E4:98:LEU:CD1	2.45	0.46
7:E4:84:ARG:HE	7:E4:84:ARG:HB3	1.49	0.46
6:H4:117:TYR:O	6:H4:121:ASN:N	2.49	0.46
7:I4:71:GLY:O	7:I4:73:CYS:N	2.45	0.46
7:K4:41:VAL:HG22	7:K4:97:LEU:HD21	1.96	0.46
6:L4:117:TYR:O	6:L4:121:ASN:N	2.49	0.46
7:M4:59:MET:HE2	7:M4:129:ARG:HG3	1.96	0.46
29:M4:203:PEB:ND	29:M4:203:PEB:HMC2	2.30	0.46
7:B5:107:ASP:OD1	18:MC:264:LEU:CG	2.56	0.46
7:I5:1:MET:HG2	28:bP:118:LEU:HD21	1.96	0.46
7:I5:27:LEU:HD23	19:zL:298:ALA:CB	2.45	0.46
12:E5:182:ASN:CB	6:bI:80:ASN:HD21	2.28	0.46
12:E5:216:ALA:N	12:E5:237:GLN:O	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W7:140:VAL:HG11	6:W7:146:ALA:CB	2.40	0.46
6:J8:38:LEU:HD22	7:K8:24:LEU:HD11	1.96	0.46
7:K8:40:ALA:HA	7:K8:142:ILE:HD11	1.98	0.46
12:E8:162:ASN:CB	29:kF:203:PEB:CHB	2.93	0.46
3:B9:191:LYS:HE2	3:B9:191:LYS:HB3	1.55	0.46
3:B9:225:VAL:N	3:B9:228:MET:HE1	2.30	0.46
4:K9:97:TYR:HE2	5:L9:13:ASP:OD1	1.98	0.46
6:W9:142:ARG:HD3	29:W9:202:PEB:C1A	2.45	0.46
7:BA:133:ILE:HG23	29:BA:203:PEB:HBC1	1.97	0.46
7:FB:75:THR:HG23	6:MB:108:TRP:HA	1.96	0.46
6:MB:9:VAL:O	6:MB:9:VAL:HG12	2.14	0.46
7:NB:10:VAL:O	7:NB:10:VAL:HG12	2.16	0.46
6:QB:85:ASP:OD2	6:QB:127:TYR:OH	2.32	0.46
6:UB:119:THR:HG21	7:ZB:83:LEU:HD13	1.96	0.46
6:jB:157:ASP:OD2	7:mB:46:SER:HB3	2.15	0.46
6:AC:50:ALA:HA	6:AC:53:LYS:HB2	1.97	0.46
7:CD:41:VAL:HG21	7:CD:98:LEU:CD1	2.45	0.46
7:CD:75:THR:HA	29:FD:201:PEB:HBD2	1.97	0.46
6:FD:117:TYR:O	6:FD:121:ASN:N	2.49	0.46
7:GD:41:VAL:HG22	7:GD:97:LEU:HD21	1.96	0.46
6:LD:161:ASN:OD1	6:LD:161:ASN:N	2.48	0.46
7:MD:124:THR:CB	6:UI:69:PRO:CB	2.88	0.46
7:BE:96:ALA:HB2	7:BE:105:LEU:HB3	1.96	0.46
7:BE:115:GLU:HA	7:BE:118:ILE:HG12	1.97	0.46
7:FE:125:ASN:OD1	7:FE:125:ASN:N	2.48	0.46
6:KE:50:ALA:HA	6:KE:53:LYS:HB2	1.97	0.46
3:BF:102:ASN:HB3	5:NF:111:ASN:HB3	1.95	0.46
3:BF:169:GLN:HG3	5:LF:78:ARG:NH1	2.31	0.46
5:FF:4:ALA:HB3	5:FF:30:MET:HE1	1.97	0.46
5:HF:35:ASN:HD22	29:HF:1002:PEB:HND	1.62	0.46
5:JF:4:ALA:HB3	5:JF:30:MET:HE1	1.97	0.46
7:FG:58:GLY:HA3	29:FG:203:PEB:HHC2	1.96	0.46
6:IG:158:TYR:HA	6:IG:161:ASN:HB2	1.97	0.46
7:JG:108:ARG:CZ	14:MG:257:THR:HG22	2.33	0.46
6:KG:161:ASN:O	14:MG:265:LYS:NZ	2.49	0.46
7:LG:112:GLY:HA3	14:MG:232:LYS:O	2.15	0.46
13:kH:174:VAL:O	13:kH:174:VAL:HG22	2.15	0.46
13:kH:262:SER:O	13:kH:268:THR:OG1	2.29	0.46
3:BI:34:THR:HG23	3:BI:80:ILE:HD11	1.97	0.46
7:cI:3:ASP:OD1	7:cI:3:ASP:N	2.46	0.46
6:fI:140:VAL:CG1	6:fI:146:ALA:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AJ:74:GLU:N	6:AJ:78:LYS:HG3	2.30	0.46
7:FJ:157:ASP:OD1	7:FJ:159:THR:OG1	2.33	0.46
6:KJ:73:GLY:CA	6:KJ:78:LYS:CB	2.91	0.46
6:KJ:106:ASP:OD1	6:KJ:158:TYR:OH	2.31	0.46
7:LJ:33:ASP:HB3	7:LJ:36:LYS:HE3	1.96	0.46
6:OJ:85:ASP:OD2	6:OJ:127:TYR:OH	2.30	0.46
7:XJ:97:LEU:HD13	7:XJ:165:VAL:HB	1.97	0.46
6:eJ:21:ASN:HA	6:eJ:24:LEU:HD12	1.98	0.46
7:hJ:97:LEU:HD13	7:hJ:165:VAL:HB	1.97	0.46
6:oJ:74:GLU:N	6:oJ:78:LYS:HG3	2.30	0.46
6:qJ:74:GLU:N	6:qJ:78:LYS:HG3	2.30	0.46
7:tJ:91:ARG:HH21	16:xJ:90:THR:HG22	1.80	0.46
6:uJ:14:ALA:O	16:xJ:74:GLN:HG3	2.13	0.46
3:BK:204:ARG:HH11	3:BK:204:ARG:HG2	1.78	0.46
4:CK:4:PRO:HG2	4:CK:30:ARG:CD	2.35	0.46
4:EK:67:THR:O	4:EK:67:THR:HG22	2.16	0.46
7:FL:156:GLY:HA2	25:1P:638:ASN:HB2	1.98	0.46
6:GL:139:CYS:HB3	29:GL:202:PEB:H3A1	1.72	0.46
7:HL:122:VAL:CG1	29:zL:501:PEB:HMA3	2.45	0.46
7:PL:97:LEU:HD13	7:PL:165:VAL:HB	1.97	0.46
7:TL:35:ASN:OD1	29:TL:202:PEB:ND	2.48	0.46
6:UL:21:ASN:HA	6:UL:24:LEU:HD12	1.98	0.46
6:aL:21:ASN:HA	6:aL:24:LEU:HD12	1.98	0.46
6:eL:74:GLU:N	6:eL:78:LYS:HG3	2.30	0.46
6:iL:21:ASN:HA	6:iL:24:LEU:HD12	1.98	0.46
6:kL:21:ASN:HA	6:kL:24:LEU:HD12	1.98	0.46
6:mL:108:TRP:HH2	7:nL:10:VAL:HG22	1.81	0.46
7:pL:97:LEU:HD13	7:pL:165:VAL:HB	1.97	0.46
6:qL:21:ASN:HA	6:qL:24:LEU:HD12	1.98	0.46
16:xL:99:ARG:HG3	30:xL:305:PUB:HBD2	1.97	0.46
17:yL:154:LEU:HD22	17:yL:163:GLU:HB2	1.97	0.46
15:bM:362:ALA:HB1	6:MM:49:GLU:HG2	1.97	0.46
15:bM:370:TYR:HD1	21:oP:128:GLN:CG	2.29	0.46
6:MM:9:VAL:O	6:MM:9:VAL:HG12	2.14	0.46
6:dM:9:VAL:O	6:dM:9:VAL:HG12	2.14	0.46
7:gM:10:VAL:HG12	7:gM:10:VAL:O	2.15	0.46
7:gM:53[A]:SER:HB2	6:jM:120:LEU:HD23	1.97	0.46
6:lM:9:VAL:O	6:lM:9:VAL:HG12	2.14	0.46
7:DN:56:VAL:HG22	6:KN:120:LEU:HD21	1.97	0.46
6:EN:52:VAL:HG11	6:EN:87:ASP:HA	1.96	0.46
29:DO:202:PEB:NA	29:DO:202:PEB:CMB	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EO:74:GLU:H	6:EO:78:LYS:HD3	1.80	0.46
6:GO:44:LEU:HD22	6:GO:152:PHE:HE1	1.81	0.46
7:JO:144:ASN:ND2	7:JO:151:MET:O	2.46	0.46
6:KO:34:SER:HA	6:KO:37:ARG:HG2	1.97	0.46
6:KO:44:LEU:HD22	6:KO:152:PHE:HE1	1.81	0.46
20:EP:38:ARG:O	20:EP:41:GLN:HB3	2.15	0.46
20:JP:16:ARG:HG3	20:JP:16:ARG:HH11	1.81	0.46
20:JP:38:ARG:O	20:JP:41:GLN:HB3	2.15	0.46
21:OP:72:MET:HA	21:OP:77:ARG:HB3	1.95	0.46
21:SP:73:TYR:HE2	21:UP:13:ASP:OD1	1.98	0.46
25:YP:464:ASN:OD1	25:YP:466:LYS:HE3	2.15	0.46
25:YP:813:CYS:SG	26:ZP:157:LYS:HE2	2.56	0.46
20:cP:102:THR:HB	20:cP:103:PRO:HD3	1.98	0.46
21:dP:94:TYR:OH	20:eP:11:ALA:O	2.33	0.46
20:gP:16:ARG:HG3	20:gP:16:ARG:HH11	1.81	0.46
21:nP:9:ILE:HG12	22:xP:97:LEU:HD23	1.96	0.46
21:oP:52:ILE:HD11	21:oP:86:ASP:HA	1.98	0.46
21:uP:52:ILE:HD11	21:uP:86:ASP:HA	1.98	0.46
25:1P:298:PHE:O	25:1P:302:GLU:HG3	2.15	0.46
25:1P:441:HIS:HB2	25:1P:448:ASP:OD1	2.15	0.46
28:4P:227:VAL:O	28:4P:230:GLU:HG3	2.16	0.46
7:BQ:125:ASN:N	7:BQ:125:ASN:OD1	2.46	0.46
7:HQ:117:TYR:O	7:HQ:122:VAL:N	2.44	0.46
7:LQ:55:ALA:HA	7:LQ:133:ILE:HG21	1.97	0.46
14:MQ:102:LYS:HG2	14:MQ:105:LYS:HB3	1.97	0.46
6:QR:54:GLU:CD	29:QR:202:PEB:HMC2	2.40	0.46
4:G1:45:THR:CG2	5:H1:18:PHE:CD2	2.94	0.46
5:H1:35:ASN:CG	29:H1:1002:PEB:HND	2.23	0.46
7:g1:97:LEU:CD1	7:g1:165:VAL:HG23	2.40	0.46
6:S2:97:LEU:HD12	6:S2:98:VAL:N	2.31	0.46
7:T2:82:CYS:HA	29:T2:201:PEB:HAA1	1.47	0.46
7:T2:105:LEU:O	7:T2:109:CYS:HB2	2.14	0.46
7:X2:51:MET:CA	7:X2:137:GLN:HE22	2.28	0.46
29:D3:202:PEB:NA	29:D3:202:PEB:CMB	2.79	0.46
9:O3:81:TRP:HA	9:O3:84:ILE:HG22	1.98	0.46
10:d4:129:GLU:CD	7:E4:108:ARG:HH22	2.20	0.46
10:d4:283:ARG:HG3	7:TF:147:THR:HG21	1.96	0.46
7:C4:24:LEU:HB3	7:C4:28:LYS:NZ	2.31	0.46
7:E4:83:LEU:HD23	7:E4:83:LEU:HA	1.76	0.46
7:G4:107:ASP:O	7:G4:111:ASN:ND2	2.47	0.46
7:G4:147:THR:CB	29:G4:203:PEB:O1B	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I4:58:GLY:HA3	29:I4:203:PEB:C3D	2.45	0.46
7:I5:74:TYR:CD1	15:bB:238:ARG:CZ	2.98	0.46
7:C5:74:TYR:O	7:C5:75:THR:CB	2.63	0.46
1:X7:138:ARG:HH12	1:X7:233:SER:HG	1.60	0.46
4:C7:27:VAL:HG11	5:D7:38:LEU:HD21	1.96	0.46
7:T7:75:THR:HG21	6:W7:108:TRP:CD1	2.50	0.46
7:A8:40:ALA:HA	7:A8:142:ILE:HD11	1.97	0.46
7:C8:74:TYR:O	7:C8:75:THR:CB	2.63	0.46
4:E9:77:SER:HA	13:kH:226:ALA:CB	2.43	0.46
4:E9:85:ALA:CB	8:eR:296:PRO:CG	2.93	0.46
6:U9:67:LYS:HE3	13:kH:258:VAL:C	2.41	0.46
6:CA:52:VAL:HG11	6:CA:87:ASP:HA	1.96	0.46
7:HA:133:ILE:HG23	29:HA:203:PEB:HBC1	1.97	0.46
7:JA:130:ALA:HA	7:JA:133:ILE:HD12	1.98	0.46
7:HB:97:LEU:HD13	7:HB:165:VAL:HB	1.98	0.46
6:IB:9:VAL:O	6:IB:9:VAL:HG12	2.14	0.46
7:JB:141:PHE:HZ	29:JB:203:PEB:HMA3	1.81	0.46
7:LB:97:LEU:HD13	7:LB:165:VAL:HB	1.98	0.46
7:gB:97:LEU:HD13	7:gB:165:VAL:HB	1.98	0.46
7:kB:97:LEU:HD13	7:kB:165:VAL:HB	1.98	0.46
7:BC:115:GLU:HA	7:BC:118:ILE:HG12	1.97	0.46
18:MC:255:LYS:C	18:MC:256:THR:HG23	2.40	0.46
7:CD:50:CYS:SG	29:CD:203:PEB:C2A	3.04	0.46
6:DD:59:CYS:SG	6:DD:60:PHE:N	2.89	0.46
7:ED:58:GLY:HA2	7:ED:61:CYS:SG	2.55	0.46
7:ED:73:CYS:HA	7:ED:78:ARG:HB3	1.97	0.46
7:ID:136:ALA:HB2	29:ID:203:PEB:CGC	2.45	0.46
29:ID:202:PEB:HMD3	29:ID:202:PEB:HHC1	1.59	0.46
6:JD:117:TYR:O	6:JD:121:ASN:N	2.49	0.46
6:LD:59:CYS:SG	6:LD:60:PHE:N	2.89	0.46
29:HE:201:PEB:O2C	18:ME:150:SER:CB	2.61	0.46
4:MF:45:THR:HG23	5:Nf:18:PHE:HB3	1.98	0.46
7:RF:139:VAL:HG13	7:RF:162:ALA:HB1	1.97	0.46
7:TF:1:MET:HE1	7:TF:104:VAL:HG21	1.96	0.46
7:aF:56:VAL:HG12	7:aF:79:MET:HE1	1.97	0.46
7:eF:131:VAL:HA	7:eF:134:MET:HB2	1.97	0.46
7:HG:55:ALA:HA	7:HG:133:ILE:HG21	1.97	0.46
6:IG:142:ARG:HE	29:IG:202:PEB:C4C	2.29	0.46
29:LG:201:PEB:C2D	14:MG:236:TYR:HE2	1.99	0.46
4:EI:145:GLN:HE21	29:LI:1002:PEB:HMC1	1.75	0.46
7:kI:139:VAL:HG13	7:kI:162:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AJ:21:ASN:HA	6:AJ:24:LEU:HD12	1.98	0.46
6:AJ:144:MET:HB2	6:AJ:148:ALA:HB3	1.98	0.46
6:IJ:21:ASN:HA	6:IJ:24:LEU:HD12	1.98	0.46
7:LJ:112:GLY:O	7:LJ:116:THR:OG1	2.32	0.46
6:cJ:68:ASN:O	6:cJ:70:GLY:N	2.44	0.46
6:kJ:21:ASN:HA	6:kJ:24:LEU:HD12	1.98	0.46
6:uJ:21:ASN:HA	6:uJ:24:LEU:HD12	1.98	0.46
19:zJ:363:ARG:CD	21:nP:62:TYR:O	2.55	0.46
3:BK:199:TRP:CD1	5:LK:70:GLY:O	2.69	0.46
4:EK:16:GLY:CA	5:FK:91:ARG:CZ	2.93	0.46
6:OK:157:ASP:OD2	7:RK:46:SER:HB2	2.16	0.46
6:UK:88:HIS:CD2	6:UK:91:ARG:HH21	2.33	0.46
6:ZK:52:VAL:HG22	6:ZK:90:MET:HG3	1.97	0.46
6:ZK:102:THR:HG22	6:ZK:155:TYR:CE1	2.50	0.46
7:gK:7:ARG:HH12	14:MN:96:LYS:NZ	2.09	0.46
7:iK:124:THR:O	7:iK:127:SER:OG	2.23	0.46
6:jK:88:HIS:CD2	6:jK:91:ARG:HH21	2.33	0.46
7:FL:97:LEU:HD13	7:FL:165:VAL:HB	1.97	0.46
6:OL:21:ASN:HA	6:OL:24:LEU:HD12	1.98	0.46
6:OL:94:ASN:ND2	7:PL:18:TYR:HD2	2.11	0.46
7:ZL:108:ARG:NH1	16:xL:41:ASN:HB2	1.85	0.46
7:dL:35:ASN:OD1	29:dL:202:PEB:ND	2.48	0.46
7:hL:35:ASN:OD1	29:hL:202:PEB:ND	2.48	0.46
6:kL:85:ASP:OD2	6:kL:127:TYR:OH	2.30	0.46
6:mL:27:ILE:CB	7:nL:38:LEU:HD21	2.43	0.46
6:oL:21:ASN:HA	6:oL:24:LEU:HD12	1.98	0.46
6:sL:43:LYS:HA	6:sL:43:LYS:HD2	1.67	0.46
16:wL:268:SER:OG	16:wL:269:ASP:N	2.47	0.46
15:bM:238:ARG:HH11	15:bM:240:MET:HE1	1.80	0.46
7:NM:21:GLY:HA3	21:oP:143:SER:HA	1.97	0.46
7:LN:176:ILE:O	7:LN:176:ILE:HG22	2.13	0.46
6:GO:74:GLU:H	6:GO:78:LYS:HD3	1.80	0.46
21:MP:52:ILE:HD11	21:MP:86:ASP:HA	1.98	0.46
20:PP:49:ARG:HH21	20:PP:140:LEU:HD22	1.81	0.46
21:UP:76:ARG:HD2	25:YP:702:ARG:NH2	2.30	0.46
23:WP:140:LYS:HD2	23:WP:158:ALA:HA	1.96	0.46
25:YP:801:ALA:O	25:YP:804:ARG:HG2	2.15	0.46
21:fP:65:ILE:O	21:fP:70:GLY:HA3	2.16	0.46
23:yP:67:LEU:HD13	31:1P:1002:CYC:CGA	2.44	0.46
24:zP:68:CYS:SG	24:zP:95:MET:HB3	2.55	0.46
25:1P:179:ARG:O	25:1P:183:GLU:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1P:203:LEU:O	25:1P:213:LYS:NZ	2.40	0.46
25:1P:845:LEU:HG	25:1P:845:LEU:O	2.15	0.46
7:FQ:51:MET:N	29:FQ:203:PEB:CAA	2.74	0.46
8:eR:75:MET:HE2	29:NR:201:PEB:OD	2.16	0.46
8:eR:221:ASN:ND2	7:TR:113:LEU:CA	2.69	0.46
1:X1:225:PHE:O	1:X1:229:ARG:NH2	2.49	0.46
3:B1:199:TRP:CD1	5:L1:70:GLY:O	2.69	0.46
3:B1:224:MET:HG2	3:B1:228:MET:HE2	1.98	0.46
5:J1:29:LYS:C	5:J1:29:LYS:CD	2.88	0.46
5:J1:70:GLY:CA	5:N1:14:ALA:O	2.63	0.46
6:O1:157:ASP:OD2	7:R1:46:SER:HB2	2.16	0.46
6:U1:153:SER:O	6:U1:157:ASP:OD2	2.31	0.46
6:M2:137:ARG:NH1	29:M2:202:PEB:CGB	2.70	0.46
6:O2:114:ARG:C	6:O2:118:ARG:HH21	2.21	0.46
7:V2:37:ARG:O	7:V2:41:VAL:CG2	2.63	0.46
7:H3:37:ARG:NH1	7:H3:97:LEU:O	2.46	0.46
7:J3:144:ASN:ND2	7:J3:151:MET:O	2.46	0.46
7:C4:39:ASP:OD1	29:C4:202:PEB:H1D1	2.14	0.46
7:C4:75:THR:HA	29:F4:201:PEB:CBD	2.46	0.46
6:F4:75:ASN:ND2	6:F4:77:GLU:HG2	2.28	0.46
7:G4:39:ASP:OD1	7:G4:153:PHE:CD1	2.69	0.46
7:K4:107:ASP:O	7:K4:111:ASN:ND2	2.47	0.46
7:F5:82:CYS:HA	29:F5:201:PEB:HAA1	1.79	0.46
7:I5:28:LYS:HZ2	19:zL:291:ILE:HD11	1.81	0.46
5:F7:90:LEU:O	5:F7:94:SER:OG	2.33	0.46
5:F7:165:ASP:CB	12:E8:38:LEU:HD12	2.45	0.46
7:i7:116:THR:O	7:i7:120:LEU:HG	2.16	0.46
7:H8:108:ARG:O	12:E8:52:ASN:ND2	2.47	0.46
7:I8:36:LYS:HB3	7:I8:161:LEU:HD11	1.97	0.46
6:J8:77:GLU:OE1	5:J9:11:GLN:OE1	2.34	0.46
7:L8:108:ARG:NH2	4:I9:64:PRO:HD2	1.67	0.46
3:B9:209:GLN:HG2	27:aP:55:TYR:CB	2.45	0.46
3:B9:209:GLN:HG2	27:aP:55:TYR:CD2	2.51	0.46
6:S9:133:TYR:CE1	13:kH:119:VAL:CG2	2.99	0.46
6:b9:52:VAL:HG13	6:b9:86:VAL:HG12	1.96	0.46
7:i9:116:THR:O	7:i9:120:LEU:HG	2.16	0.46
6:CA:149:GLY:O	6:CA:153:SER:OG	2.26	0.46
6:EA:1:MET:CE	14:MA:196:ASN:ND2	2.79	0.46
7:FA:118:ILE:CD1	14:MA:105:LYS:O	2.63	0.46
29:FA:201:PEB:CGC	14:MA:174:ARG:NH1	2.35	0.46
15:bB:355:LEU:HB2	6:MB:83:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FB:141:PHE:HZ	29:FB:203:PEB:HMA3	1.81	0.46
6:GB:157:ASP:OD2	7:JB:46:SER:O	2.33	0.46
7:NB:97:LEU:HD13	7:NB:165:VAL:HB	1.98	0.46
7:gB:61:CYS:HB3	29:gB:203:PEB:CBD	2.39	0.46
7:kB:81:ALA:O	7:kB:85:ASP:N	2.49	0.46
10:dD:282:LYS:HB3	10:dD:282:LYS:HZ3	1.80	0.46
7:CD:135:LYS:NZ	7:CD:169:PHE:HB2	2.30	0.46
6:FD:59:CYS:SG	6:FD:60:PHE:N	2.89	0.46
6:FD:113:ALA:C	6:FD:116:VAL:HG22	2.40	0.46
6:JD:161:ASN:OD1	6:JD:161:ASN:N	2.47	0.46
7:DE:123:PRO:HB3	6:QL:69:PRO:HG3	1.88	0.46
7:LE:115:GLU:HA	7:LE:118:ILE:HG12	1.97	0.46
5:DF:4:ALA:HB3	5:DF:30:MET:HE1	1.97	0.46
6:WF:140:VAL:CG1	6:WF:146:ALA:HA	2.45	0.46
7:aF:56:VAL:CG1	7:aF:79:MET:HE1	2.46	0.46
7:mF:139:VAL:HG13	7:mF:162:ALA:HB1	1.97	0.46
7:JG:55:ALA:HA	7:JG:133:ILE:HG21	1.97	0.46
13:kH:245:VAL:CG1	6:OR:79:ILE:CG2	2.87	0.46
4:CI:33:ARG:HA	4:CI:33:ARG:HD2	1.73	0.46
5:LI:37:ARG:NH1	5:LI:97:MET:O	2.47	0.46
7:TI:1:MET:HE1	7:TI:104:VAL:HG21	1.96	0.46
6:AJ:147:GLN:HE22	29:AJ:203:PEB:C4C	2.28	0.46
7:BJ:97:LEU:HD13	7:BJ:165:VAL:HB	1.97	0.46
7:BJ:118:ILE:HG23	7:TJ:118:ILE:O	2.15	0.46
6:GJ:72:ALA:O	6:GJ:78:LYS:HB3	2.15	0.46
6:aJ:21:ASN:HA	6:aJ:24:LEU:HD12	1.98	0.46
6:gJ:74:GLU:N	6:gJ:78:LYS:HG3	2.30	0.46
7:hJ:1:MET:HE3	7:hJ:1:MET:HB2	1.80	0.46
6:mJ:91:ARG:CZ	7:nJ:16:ALA:HA	2.46	0.46
6:oJ:95:TYR:HB3	7:pJ:9:VAL:HG13	1.97	0.46
6:sJ:10:SER:CB	16:xJ:82:TYR:N	2.73	0.46
6:sJ:21:ASN:HA	6:sJ:24:LEU:HD12	1.98	0.46
7:tJ:35:ASN:OD1	29:uJ:201:PEB:ND	2.48	0.46
19:zJ:340:PHE:CD1	20:EP:67:SER:HG	1.73	0.46
5:FK:30:MET:HE3	5:FK:30:MET:HB2	1.71	0.46
6:OK:102:THR:HG22	6:OK:155:TYR:CE1	2.50	0.46
6:QK:88:HIS:CD2	6:QK:91:ARG:HH21	2.33	0.46
7:VK:65:GLY:HA2	7:cK:63:ASN:HD21	1.79	0.46
6:AL:74:GLU:N	6:AL:78:LYS:HG3	2.30	0.46
6:AL:147:GLN:HE22	29:AL:203:PEB:C4C	2.28	0.46
7:JL:97:LEU:HD13	7:JL:165:VAL:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WL:43:LYS:HD2	6:WL:43:LYS:HA	1.67	0.46
7:XL:35:ASN:OD1	29:XL:202:PEB:ND	2.48	0.46
7:jL:97:LEU:HD13	7:jL:165:VAL:HB	1.97	0.46
6:kL:161:ASN:ND2	7:nL:45:VAL:O	2.49	0.46
6:uL:68:ASN:CB	6:uL:71:GLU:OE2	2.60	0.46
7:DM:97:LEU:HD13	7:DM:165:VAL:HB	1.98	0.46
7:HM:141:PHE:HZ	29:HM:203:PEB:HMA3	1.81	0.46
7:JM:141:PHE:HZ	29:JM:203:PEB:HMA3	1.81	0.46
6:MM:54:GLU:HG2	6:MM:133:TYR:CE2	2.31	0.46
7:cM:141:PHE:HZ	29:cM:203:PEB:HMA3	1.81	0.46
7:kM:59:MET:HE2	7:kM:59:MET:HB3	1.89	0.46
6:GN:128:VAL:HG12	6:GN:163:LEU:HD12	1.97	0.46
7:JN:133:ILE:HG23	29:JN:203:PEB:HBC1	1.97	0.46
7:JN:158:CYS:HB3	29:JN:202:PEB:HBA1	1.57	0.46
6:KN:43:LYS:HZ3	6:KN:143:ASP:HB3	1.79	0.46
7:LN:130:ALA:HA	7:LN:133:ILE:HD12	1.98	0.46
7:BO:144:ASN:ND2	7:BO:151:MET:O	2.46	0.46
6:EO:91:ARG:HA	7:FO:18:TYR:CE2	2.51	0.46
9:OO:158:ALA:HB3	9:OO:215:ARG:HB3	1.97	0.46
20:KP:16:ARG:HG3	20:KP:16:ARG:HH11	1.81	0.46
20:KP:102:THR:HB	20:KP:103:PRO:HD3	1.97	0.46
20:PP:102:THR:HB	20:PP:103:PRO:HD3	1.97	0.46
22:VP:57:LYS:HD3	22:VP:135:GLU:OE1	2.16	0.46
25:YP:441:HIS:HB2	25:YP:448:ASP:OD1	2.15	0.46
28:bP:227:VAL:O	28:bP:230:GLU:HG3	2.16	0.46
20:cP:85:LEU:HB3	20:cP:133:MET:SD	2.54	0.46
21:dP:52:ILE:HD11	21:dP:86:ASP:HA	1.98	0.46
20:iP:17:TYR:CE2	23:yP:96:ARG:HA	2.50	0.46
20:iP:49:ARG:HH21	20:iP:140:LEU:HD22	1.81	0.46
31:jP:1001:CYC:HMA1	25:1P:420:PHE:HZ	1.80	0.46
21:nP:52:ILE:HD11	21:nP:86:ASP:HA	1.98	0.46
20:pP:49:ARG:HH21	20:pP:140:LEU:HD22	1.81	0.46
21:qP:10:ASN:ND2	28:4P:52:SER:HB3	2.31	0.46
21:qP:72:MET:HE2	21:qP:78:TYR:CD2	2.50	0.46
20:rP:102:THR:HB	20:rP:103:PRO:HD3	1.97	0.46
20:tP:102:THR:HB	20:tP:103:PRO:HD3	1.98	0.46
21:wP:52:ILE:HD11	21:wP:86:ASP:HA	1.98	0.46
25:1P:97:SER:OG	25:1P:98:ALA:N	2.49	0.46
25:1P:709:GLU:HA	25:1P:835:VAL:O	2.16	0.46
6:EQ:31:ILE:O	6:EQ:34:SER:OG	2.19	0.46
7:FQ:128:ILE:HA	7:FQ:131:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IQ:142:ARG:HE	29:IQ:202:PEB:C4C	2.29	0.46
6:KQ:90:MET:H	6:KQ:90:MET:HG3	1.52	0.46
7:LQ:129:ARG:HH21	7:LQ:133:ILE:HG13	1.80	0.46
14:MQ:158:ARG:HH11	30:MQ:405:PUB:C4D	2.29	0.46
14:MQ:158:ARG:NH1	30:MQ:405:PUB:OD	2.45	0.46
8:eR:103:VAL:HG11	8:eR:134:VAL:HG12	1.98	0.46
6:MR:116:VAL:CG1	6:MR:120:LEU:HD12	2.41	0.46
6:MR:140:VAL:HG13	6:MR:149:GLY:HA3	1.96	0.46
6:OR:108:TRP:HD1	7:TR:77:ARG:NH2	2.13	0.46
6:UR:105:LEU:HD23	6:UR:158:TYR:HD2	1.78	0.46
7:VR:61:CYS:HB2	29:VR:203:PEB:HAD1	1.84	0.46
5:N1:47:ASN:ND2	5:N1:141:LEU:CD2	2.71	0.46
6:S1:135:ARG:CD	6:S1:157:ASP:OD1	2.63	0.46
7:e1:97:LEU:CD1	7:e1:165:VAL:HG23	2.40	0.46
6:O2:69:PRO:CD	13:k6:232:PHE:HD2	2.29	0.46
6:Q2:43:LYS:HD3	6:Q2:43:LYS:HA	1.77	0.46
6:S2:139:CYS:SG	6:S2:142:ARG:HB3	2.55	0.46
6:W2:138:LEU:HD13	29:W2:202:PEB:HMD3	1.97	0.46
6:A3:44:LEU:HD22	6:A3:152:PHE:HE1	1.81	0.46
7:B3:144:ASN:ND2	7:B3:151:MET:O	2.46	0.46
7:D3:39:ASP:CB	29:D3:202:PEB:HMD2	2.45	0.46
7:J3:143:THR:OG1	7:J3:145:THR:OG1	2.31	0.46
6:K3:53:LYS:HD3	6:K3:53:LYS:O	2.16	0.46
6:K3:53:LYS:HZ1	6:K3:83:TYR:HE1	1.52	0.46
10:d4:133:PRO:O	10:d4:137:VAL:HG23	2.15	0.46
10:d4:327:SER:HB2	10:dD:338:GLU:CG	2.45	0.46
10:d4:335:LEU:HD21	10:dD:331:GLN:OE1	2.16	0.46
6:B4:75:ASN:ND2	6:B4:77:GLU:HG2	2.28	0.46
6:B4:117:TYR:O	6:B4:121:ASN:N	2.49	0.46
7:C4:135:LYS:NZ	7:C4:169:PHE:HB2	2.30	0.46
7:G4:93:VAL:HG21	7:G4:169:PHE:CZ	2.50	0.46
7:G5:57:SER:HB3	12:E5:251:LEU:HD11	1.98	0.46
7:G5:149:ARG:HH21	7:k9:150:LYS:HD2	1.79	0.46
6:J5:38:LEU:HD22	7:K5:24:LEU:HD11	1.96	0.46
1:X7:70:ALA:HA	1:X7:78:TYR:HE2	1.81	0.46
3:B7:206:PHE:CZ	20:TP:76:GLU:HG3	2.51	0.46
3:B7:209:GLN:HG2	27:3P:55:TYR:CB	2.46	0.46
3:B7:227:GLU:CB	20:rP:52:LYS:HE2	2.45	0.46
5:N7:90:LEU:O	5:N7:94:SER:OG	2.33	0.46
7:Y7:157:ASP:HB2	12:E8:120:TYR:CZ	2.51	0.46
6:Z7:52:VAL:HG13	6:Z7:86:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J8:150:VAL:CG1	7:LJ:157:ASP:HB2	2.45	0.46
12:E8:70:SER:O	12:E8:73:SER:OG	2.33	0.46
1:X9:263:THR:CB	5:D9:115:GLU:HG2	2.44	0.46
5:D9:90:LEU:O	5:D9:94:SER:OG	2.33	0.46
6:CA:59:CYS:O	6:CA:63:TYR:N	2.46	0.46
6:EA:34:SER:HA	6:EA:37:ARG:NH2	2.30	0.46
7:HA:128:ILE:HA	7:HA:131:VAL:HG12	1.96	0.46
7:JA:147:THR:OG1	29:JA:203:PEB:OA	2.27	0.46
6:KB:9:VAL:O	6:KB:9:VAL:HG12	2.14	0.46
7:PB:97:LEU:HD13	7:PB:165:VAL:HB	1.98	0.46
6:UB:43:LYS:CD	14:MG:115:TYR:OH	2.22	0.46
6:hB:85:ASP:OD2	6:hB:127:TYR:OH	2.32	0.46
18:MC:144:ARG:O	18:MC:145:ASP:CG	2.58	0.46
10:dD:93:ARG:C	10:dD:95:SER:N	2.73	0.46
7:CD:39:ASP:OD1	29:CD:202:PEB:H1D1	2.14	0.46
6:DD:24:LEU:CD1	7:ED:38:LEU:HD22	2.40	0.46
6:DD:78:LYS:HB3	29:DD:201:PEB:HMB1	1.98	0.46
7:ED:135:LYS:NZ	7:ED:169:PHE:HB2	2.30	0.46
7:GD:7:ARG:HE	7:GD:7:ARG:CA	2.26	0.46
29:ID:202:PEB:HBA3	29:ID:202:PEB:HHA1	1.96	0.46
6:LD:117:TYR:O	6:LD:121:ASN:N	2.49	0.46
7:BE:75:THR:O	7:BE:79:MET:HG2	2.15	0.46
6:CE:4:VAL:HG11	6:CE:30:ASN:HD21	1.81	0.46
7:LE:116:THR:CB	18:ME:213:THR:OG1	2.62	0.46
18:ME:285:TYR:O	5:DI:18:PHE:N	2.44	0.46
5:FF:37:ARG:NH1	5:FF:97:MET:O	2.47	0.46
4:GF:101:VAL:HG23	5:HF:9:VAL:HG21	1.98	0.46
5:NF:63:GLN:HG2	7:JO:177:SER:O	2.16	0.46
6:IF:140:VAL:CG1	6:IF:146:ALA:HA	2.45	0.46
7:HG:129:ARG:HH21	7:HG:133:ILE:HG13	1.80	0.46
7:LG:129:ARG:HH21	7:LG:133:ILE:HG13	1.80	0.46
4:EI:145:GLN:NE2	29:LI:1002:PEB:HMC1	2.29	0.46
29:FI:1002:PEB:HMC1	4:KI:145:GLN:HE21	1.81	0.46
7:RI:139:VAL:HG13	7:RI:162:ALA:HB1	1.97	0.46
7:iI:2:LEU:HD11	7:iI:6:SER:HB2	1.97	0.46
7:kI:131:VAL:HA	7:kI:134:MET:HB2	1.97	0.46
6:AJ:55:ALA:HA	6:AJ:133:TYR:CE2	2.50	0.46
7:BJ:35:ASN:OD1	29:BJ:202:PEB:ND	2.48	0.46
6:KJ:66:LEU:HD22	29:KJ:201:PEB:HMA2	1.95	0.46
7:NJ:16:ALA:HB2	7:VJ:69:PRO:HG2	1.97	0.46
6:QJ:43:LYS:HA	6:QJ:43:LYS:HD2	1.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TJ:159:THR:OG1	25:YP:556:ASP:OD2	2.34	0.46
7:ZJ:97:LEU:HD13	7:ZJ:165:VAL:HB	1.97	0.46
6:cJ:43:LYS:HA	6:cJ:43:LYS:HD2	1.67	0.46
6:gJ:43:LYS:HD2	6:gJ:43:LYS:HA	1.67	0.46
6:iJ:21:ASN:HA	6:iJ:24:LEU:HD12	1.98	0.46
7:jJ:115:GLU:OE1	16:wJ:56:THR:CB	2.58	0.46
6:kJ:161:ASN:ND2	7:nJ:45:VAL:O	2.49	0.46
7:vJ:97:LEU:HD13	7:vJ:165:VAL:HB	1.97	0.46
5:JK:106:ASP:HA	5:JK:110:LEU:HB2	1.98	0.46
5:LK:36:GLN:O	5:LK:40:ILE:CD1	2.64	0.46
6:hK:88:HIS:CD2	6:hK:91:ARG:HH21	2.33	0.46
6:AL:55:ALA:HA	6:AL:133:TYR:CE2	2.50	0.46
6:OL:6:THR:HB	17:yL:219:VAL:HG11	1.97	0.46
6:UL:43:LYS:HA	6:UL:43:LYS:HD2	1.67	0.46
6:YL:43:LYS:HD2	6:YL:43:LYS:HA	1.67	0.46
6:mL:139:CYS:HB3	29:mL:202:PEB:H3A1	1.72	0.46
7:pL:112:GLY:O	7:pL:116:THR:OG1	2.32	0.46
6:sL:21:ASN:HA	6:sL:24:LEU:HD12	1.98	0.46
16:xL:152:MET:HE3	16:xL:152:MET:HB2	1.78	0.46
7:FM:141:PHE:HZ	29:FM:203:PEB:HMA3	1.81	0.46
6:GM:9:VAL:HG12	6:GM:9:VAL:O	2.14	0.46
6:GM:137:ARG:CG	6:GM:137:ARG:NH2	2.78	0.46
7:RM:10:VAL:HG12	7:RM:10:VAL:O	2.16	0.46
7:RM:97:LEU:HD13	7:RM:165:VAL:HB	1.98	0.46
7:eM:10:VAL:O	7:eM:10:VAL:HG12	2.16	0.46
7:eM:97:LEU:HD13	7:eM:165:VAL:HB	1.98	0.46
7:BN:20:GLY:O	7:BN:24:LEU:CB	2.63	0.46
7:BN:158:CYS:HB3	29:BN:202:PEB:HBA1	1.57	0.46
6:CO:34:SER:HA	6:CO:37:ARG:HG2	1.97	0.46
20:GP:16:ARG:HG3	20:GP:16:ARG:HH11	1.81	0.46
21:HP:52:ILE:HD11	21:HP:86:ASP:HA	1.98	0.46
25:YP:298:PHE:O	25:YP:302:GLU:HG3	2.15	0.46
21:fP:52:ILE:HD11	21:fP:86:ASP:HA	1.98	0.46
20:gP:102:THR:HB	20:gP:103:PRO:HD3	1.98	0.46
21:nP:71:MEN:HE21	24:zP:126:MET:CG	2.46	0.46
31:nP:1001:CYC:O1A	24:zP:60:SER:OG	2.23	0.46
20:pP:16:ARG:HG3	20:pP:16:ARG:HH11	1.81	0.46
20:pP:102:THR:HB	20:pP:103:PRO:HD3	1.97	0.46
20:vP:16:ARG:HG3	20:vP:16:ARG:HH11	1.81	0.46
20:vP:49:ARG:HH21	20:vP:140:LEU:HD22	1.81	0.46
25:1P:801:ALA:O	25:1P:804:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3P:72:LEU:CD1	27:3P:73:PRO:HD2	2.42	0.46
27:3P:217:THR:OG1	27:3P:219:ASP:OD1	2.32	0.46
28:4P:46:THR:HB	28:4P:58:GLY:H	1.81	0.46
7:DQ:128:ILE:HA	7:DQ:131:VAL:HG12	1.97	0.46
7:FQ:120:LEU:HD22	14:MQ:174:ARG:HG3	1.98	0.46
6:GQ:114:ARG:CG	6:IQ:114:ARG:NH1	2.79	0.46
6:GQ:158:TYR:HA	6:GQ:161:ASN:HB2	1.96	0.46
6:MR:141:PRO:O	6:MR:144:MET:O	2.34	0.46
6:SR:131:ILE:HG21	6:SR:160:ILE:HG13	1.98	0.46
5:L1:106:ASP:HA	5:L1:110:LEU:HB2	1.98	0.46
6:f1:88:HIS:CD2	6:f1:91:ARG:HH21	2.33	0.46
7:T2:106:GLU:HG2	7:T2:110:LEU:CB	2.45	0.46
6:I3:44:LEU:HD22	6:I3:152:PHE:HE1	1.81	0.46
6:K3:44:LEU:HD22	6:K3:152:PHE:HE1	1.81	0.46
9:O3:298:PRO:O	9:O3:301:THR:OG1	2.32	0.46
6:D4:16:GLY:HA2	7:E4:91:ARG:HH22	1.79	0.46
6:F4:59:CYS:SG	6:F4:60:PHE:N	2.89	0.46
6:H4:59:CYS:SG	6:H4:60:PHE:N	2.89	0.46
7:I4:7:ARG:HE	7:I4:7:ARG:CA	2.26	0.46
7:I4:15:LYS:HE2	7:I4:15:LYS:HB2	1.64	0.46
6:J4:75:ASN:ND2	6:J4:77:GLU:HG2	2.28	0.46
7:K4:93:VAL:HG21	7:K4:169:PHE:CZ	2.50	0.46
6:L4:115:GLU:HA	6:L4:118:ARG:NE	2.18	0.46
7:H5:72:MEN:HE23	29:H5:201:PEB:HMB2	1.98	0.46
7:I5:14:ALA:O	21:LP:123:ILE:HB	2.15	0.46
6:J5:64:ALA:C	20:NP:41:GLN:NE2	2.73	0.46
7:A5:76:ASN:HD22	7:C5:119:ALA:CB	2.26	0.46
13:k6:61:ARG:NH1	7:V7:150:LYS:HG3	2.30	0.46
13:k6:280:ARG:CD	13:k6:283:LYS:HZ1	2.29	0.46
7:c7:42:ASN:O	7:c7:46:SER:OG	2.30	0.46
7:I8:27:LEU:HD23	19:zJ:298:ALA:HB3	1.96	0.46
7:K8:112:GLY:HA2	27:3P:269:LYS:CE	2.45	0.46
7:L8:76:ASN:ND2	6:OR:75:ASN:CA	2.78	0.46
1:X9:215:HIS:HB3	1:X9:240:LEU:HD11	1.98	0.46
5:L9:18:PHE:CE1	20:vP:67:SER:OG	2.46	0.46
6:l9:149:GLY:O	6:l9:153:SER:OG	2.29	0.46
6:IA:128:VAL:HG12	6:IA:163:LEU:HD12	1.97	0.46
6:KA:15:ALA:O	14:MA:247:LYS:HG3	2.16	0.46
6:KA:128:VAL:HG12	6:KA:163:LEU:HD12	1.97	0.46
6:SB:9:VAL:O	6:SB:9:VAL:HG12	2.14	0.46
7:TB:10:VAL:HG12	7:TB:10:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TB:97:LEU:HD13	7:TB:165:VAL:HB	1.98	0.46
7:VB:10:VAL:HG12	7:VB:10:VAL:O	2.15	0.46
6:IC:14:ALA:HB3	18:MC:51:PRO:HG3	1.97	0.46
18:MC:261:VAL:CG2	6:SF:68:ASN:OD1	2.63	0.46
18:MC:284:LEU:CG	5:DF:18:PHE:HE2	2.28	0.46
10:dD:69:GLU:HG2	10:dD:70:ASP:N	2.29	0.46
10:dD:102:MET:HE3	29:CD:201:PEB:OD	2.16	0.46
7:CD:24:LEU:HB3	7:CD:28:LYS:NZ	2.31	0.46
7:GD:67:ILE:O	7:GD:74:TYR:HD1	1.99	0.46
6:HD:43:LYS:HD2	6:HD:43:LYS:HA	1.70	0.46
6:HD:113:ALA:C	6:HD:116:VAL:HG22	2.40	0.46
7:ID:73:CYS:HA	7:ID:78:ARG:HB3	1.97	0.46
6:LD:94:ASN:HD22	7:MD:18:TYR:HD1	1.63	0.46
6:AE:50:ALA:HA	6:AE:53:LYS:HB2	1.97	0.46
7:HE:115:GLU:HA	7:HE:118:ILE:HG12	1.97	0.46
6:IE:4:VAL:HG11	6:IE:30:ASN:HD21	1.81	0.46
18:ME:286:GLN:NE2	4:CI:45:THR:O	2.49	0.46
3:BF:217:ASP:OD1	27:3P:59:LYS:CB	2.59	0.46
4:CF:103:GLY:H	4:CF:153:TYR:HH	1.62	0.46
5:HF:11:GLN:NE2	7:YF:128:ILE:HD12	2.31	0.46
5:HF:74:TYR:C	5:HF:75:THR:HG23	2.40	0.46
7:cF:1:MET:CE	7:cF:107:ASP:OD1	2.61	0.46
7:iF:139:VAL:HG13	7:iF:162:ALA:HB1	1.97	0.46
6:CG:142:ARG:HE	29:CG:202:PEB:C4C	2.29	0.46
6:EG:142:ARG:HE	29:EG:202:PEB:C4C	2.29	0.46
7:FG:55:ALA:HA	7:FG:133:ILE:HG21	1.97	0.46
6:GG:142:ARG:HE	29:GG:202:PEB:C4C	2.29	0.46
6:IG:136:ASP:OD1	6:IG:136:ASP:N	2.30	0.46
14:MG:237:ILE:O	14:MG:241:VAL:HG13	2.16	0.46
3:BI:222:LEU:HA	20:vP:79:ALA:HB2	1.97	0.46
3:BI:224:MET:CE	5:JI:152:ASP:CA	2.64	0.46
5:LI:16:GLY:HA3	5:NI:69:PRO:HB3	1.96	0.46
7:PI:139:VAL:HG13	7:PI:162:ALA:HB1	1.97	0.46
7:VI:147:THR:HB	7:VI:148:GLU:OE1	2.15	0.46
6:KJ:65:TYR:C	6:KJ:65:TYR:CD1	2.93	0.46
7:TJ:35:ASN:OD1	29:TJ:202:PEB:ND	2.48	0.46
7:bJ:35:ASN:OD1	29:bJ:202:PEB:ND	2.48	0.46
7:fJ:97:LEU:HD13	7:fJ:165:VAL:HB	1.97	0.46
6:gJ:21:ASN:HA	6:gJ:24:LEU:HD12	1.98	0.46
16:wJ:146:PRO:CD	16:wJ:147:LYS:H	2.11	0.46
6:SK:88:HIS:CD2	6:SK:91:ARG:HH21	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jK:17:ARG:NH2	6:lK:158:TYR:OH	2.49	0.46
7:kK:89:ILE:HD11	7:kK:134:MET:CE	2.46	0.46
6:AL:21:ASN:HA	6:AL:24:LEU:HD12	1.98	0.46
7:BL:35:ASN:OD1	29:BL:202:PEB:ND	2.48	0.46
7:FL:113:LEU:CD1	29:FL:201:PEB:CMD	2.93	0.46
7:FL:139:VAL:HG21	25:1P:516:SER:CA	2.39	0.46
7:LL:97:LEU:HD13	7:LL:165:VAL:HB	1.97	0.46
7:VL:35:ASN:OD1	29:WL:201:PEB:ND	2.48	0.46
7:ZL:108:ARG:HH12	16:XL:41:ASN:CG	2.00	0.46
6:eL:21:ASN:HA	6:eL:24:LEU:HD12	1.98	0.46
7:pL:69:PRO:HG2	7:tL:16:ALA:HB2	1.97	0.46
6:uL:21:ASN:HA	6:uL:24:LEU:HD12	1.98	0.46
16:XL:102:ALA:CA	16:XL:105:ARG:NE	2.74	0.46
6:KM:9:VAL:O	6:KM:9:VAL:HG12	2.14	0.46
7:RM:141:PHE:HZ	29:RM:203:PEB:HMA3	1.81	0.46
6:aM:54:GLU:HG2	6:aM:133:TYR:CE2	2.31	0.46
6:aM:85:ASP:OD2	6:aM:127:TYR:OH	2.32	0.46
7:kM:10:VAL:O	7:kM:10:VAL:HG12	2.15	0.46
6:KN:13:ASP:CG	7:LN:108:ARG:HD3	2.40	0.46
7:DO:39:ASP:CA	29:DO:202:PEB:HMD3	2.28	0.46
6:EO:138:LEU:HD11	6:EO:149:GLY:HA2	1.97	0.46
6:KO:53:LYS:HD3	6:KO:53:LYS:O	2.16	0.46
7:LO:144:ASN:ND2	7:LO:151:MET:O	2.46	0.46
7:NO:84:ARG:HG3	9:OO:400:VAL:HG12	1.97	0.46
21:DP:15:GLN:CD	23:WP:133:ILE:HG22	2.41	0.46
20:GP:97:ILE:HD12	23:WP:19:LEU:HD12	1.97	0.46
25:YP:39:GLU:O	25:YP:42:GLN:HB3	2.16	0.46
25:YP:556:ASP:HB3	25:YP:558:ASN:ND2	2.31	0.46
20:cP:38:ARG:O	20:cP:41:GLN:HB3	2.15	0.46
21:dP:87:TYR:OH	25:1P:492:GLY:N	2.49	0.46
20:iP:31:LEU:HD21	23:yP:35:LEU:HD11	1.98	0.46
20:mP:38:ARG:O	20:mP:41:GLN:HB3	2.15	0.46
20:mP:49:ARG:HH21	20:mP:140:LEU:HD22	1.81	0.46
21:sP:52:ILE:HD11	21:sP:86:ASP:HA	1.98	0.46
20:tP:49:ARG:HH21	20:tP:140:LEU:HD22	1.81	0.46
6:KQ:99:VAL:HG12	7:LQ:9:VAL:HG21	1.96	0.46
29:MR:201:PEB:CMC	7:VR:79:MET:HG3	2.44	0.46
6:QR:135:ARG:C	6:QR:138:LEU:CD2	2.83	0.46
6:SR:140:VAL:O	6:SR:144:MET:O	2.32	0.46
7:TR:107:ASP:OD1	7:TR:108:ARG:N	2.49	0.46
4:E1:49:GLN:HG3	6:Q7:53:LYS:CG	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E1:70:PRO:HG3	13:k6:106:ALA:O	2.16	0.46
5:F1:59:LEU:HD22	5:F1:130:ALA:HB2	1.97	0.46
4:K1:143:SER:CB	29:cJ:202:PEB:HMA2	2.42	0.46
6:O1:102:THR:HG22	6:O1:155:TYR:CE1	2.50	0.46
8:e2:147:PHE:CE1	8:e2:163:HIS:HE1	2.34	0.46
6:O2:84:ARG:NH1	7:T2:67:ILE:HG21	2.30	0.46
6:U2:48:HIS:O	6:U2:52:VAL:HG23	2.16	0.46
7:J3:114:LYS:HD3	7:J3:176:ILE:HA	1.98	0.46
10:d4:98:LYS:HB2	10:d4:98:LYS:HE3	1.75	0.46
10:d4:121:ASP:HA	10:d4:124:ARG:NH1	2.30	0.46
6:B4:25:GLU:OE1	6:D4:33:ARG:CG	2.64	0.46
6:B4:59:CYS:SG	6:B4:60:PHE:N	2.89	0.46
6:F4:43:LYS:HA	6:F4:43:LYS:HZ3	1.80	0.46
6:F4:55:ALA:O	6:F4:58:ALA:N	2.45	0.46
6:F4:78:LYS:HB3	29:F4:201:PEB:HMB1	1.98	0.46
7:I4:36:LYS:HZ3	29:I4:202:PEB:C2B	2.29	0.46
6:L4:94:ASN:HD22	7:M4:18:TYR:HD1	1.64	0.46
7:B5:72:MEN:HD2	7:B5:123:PRO:HD3	1.79	0.46
7:B5:91:ARG:HH21	18:MC:293:MET:HG3	1.81	0.46
7:C5:40:ALA:HA	7:C5:142:ILE:HD11	1.98	0.46
12:E5:233:TYR:OH	29:I9:202:PEB:CMA	2.64	0.46
13:k6:258:VAL:C	6:U7:67:LYS:HE3	2.41	0.46
1:X7:47:ASN:HD22	7:a7:78:ARG:HH12	1.63	0.46
7:A8:76:ASN:ND2	7:C8:119:ALA:HB1	2.28	0.46
12:E8:213:LYS:HE3	12:E8:213:LYS:HB2	1.74	0.46
2:A9:153:GLN:OE1	2:A9:157:ASP:OD2	2.33	0.46
3:B9:208:PRO:CG	21:sP:58:LYS:O	2.64	0.46
4:E9:101:VAL:HG23	5:F9:9:VAL:HG21	1.98	0.46
5:J9:77:ARG:CZ	31:J9:1001:CYC:O2A	2.64	0.46
5:J9:90:LEU:O	5:J9:94:SER:OG	2.33	0.46
6:S9:52:VAL:HG13	6:S9:86:VAL:HG12	1.96	0.46
6:U9:5:ILE:HD13	7:V9:99:ALA:HA	1.98	0.46
6:AA:128:VAL:HG12	6:AA:163:LEU:HD12	1.97	0.46
6:EA:1:MET:HG2	14:MA:196:ASN:ND2	2.19	0.46
29:JA:201:PEB:CAC	14:MA:162:LEU:CD2	2.94	0.46
6:KA:98:VAL:HG21	7:LA:19:VAL:HG23	1.97	0.46
14:MA:242:GLN:HE21	14:MA:325:SER:HB2	1.81	0.46
14:MA:248:ARG:O	14:MA:332:ARG:NH2	2.48	0.46
6:GB:137:ARG:HH21	6:GB:137:ARG:HG2	1.80	0.46
7:HB:141:PHE:HZ	29:HB:203:PEB:HMA3	1.81	0.46
7:RB:141:PHE:HZ	29:RB:203:PEB:HMA3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YB:54:GLU:HG2	6:YB:133:TYR:CE2	2.31	0.46
7:cB:10:VAL:O	7:cB:10:VAL:HG12	2.15	0.46
7:gB:141:PHE:HZ	29:gB:203:PEB:HMA3	1.81	0.46
7:GD:41:VAL:HG21	7:GD:98:LEU:CD1	2.45	0.46
7:GD:133:ILE:HD11	29:GD:203:PEB:C3C	2.46	0.46
7:ID:28:LYS:HB2	7:ID:28:LYS:HE2	1.56	0.46
6:JD:115:GLU:HA	6:JD:118:ARG:NE	2.18	0.46
7:KD:59:MET:HE2	7:KD:129:ARG:HG3	1.96	0.46
7:KD:73:CYS:HA	7:KD:78:ARG:HB3	1.97	0.46
6:LD:84:ARG:HG2	6:LD:85:ASP:N	2.26	0.46
7:MD:165:VAL:HA	7:MD:168:TYR:CD2	2.40	0.46
6:GE:4:VAL:HG11	6:GE:30:ASN:HD21	1.81	0.46
2:AF:259:ARG:NH2	2:AF:274:ASN:OD1	2.48	0.46
4:CF:33:ARG:HA	4:CF:33:ARG:HD2	1.73	0.46
5:FF:75:THR:CG2	5:FF:76:SER:N	2.77	0.46
4:KF:33:ARG:HA	4:KF:33:ARG:HD2	1.73	0.46
5:LF:72:MEN:HE21	27:3P:114:PRO:CD	2.46	0.46
7:YF:144:ASN:HD21	7:YF:153:PHE:HD2	1.61	0.46
7:kF:139:VAL:HG13	7:kF:162:ALA:HB1	1.97	0.46
6:AG:158:TYR:HA	6:AG:161:ASN:HB2	1.96	0.46
6:EG:33:ARG:O	6:EG:37:ARG:N	2.34	0.46
6:KG:142:ARG:HE	29:KG:202:PEB:C4C	2.29	0.46
3:BI:188:PHE:HA	3:BI:192:LEU:HD13	1.98	0.46
5:DI:4:ALA:HB3	5:DI:30:MET:HE1	1.97	0.46
5:HI:4:ALA:HB3	5:HI:30:MET:HE1	1.97	0.46
6:hI:6:THR:HA	7:iI:1:MET:HE2	1.97	0.46
6:OJ:21:ASN:HA	6:OJ:24:LEU:HD12	1.98	0.46
7:ZJ:35:ASN:OD1	29:ZJ:202:PEB:ND	2.48	0.46
6:oJ:85:ASP:OD2	6:oJ:127:TYR:OH	2.30	0.46
6:uJ:74:GLU:N	6:uJ:78:LYS:HG3	2.30	0.46
1:XK:48:ARG:NH2	1:XK:53:SER:O	2.45	0.46
3:BK:202:PRO:HD3	5:LK:65:GLN:HE22	1.81	0.46
5:DK:40:ILE:HG12	29:DK:1002:PEB:CBA	2.37	0.46
5:JK:29:LYS:CD	5:JK:29:LYS:C	2.88	0.46
5:JK:77:ARG:CA	4:MK:113:ALA:O	2.64	0.46
6:ZK:13:ASP:OD2	7:aK:108:ARG:NH1	2.49	0.46
6:ZK:88:HIS:CD2	6:ZK:91:ARG:HH21	2.33	0.46
7:HL:111:ASN:ND2	7:HL:111:ASN:C	2.73	0.46
6:ML:140:VAL:CG2	6:ML:146:ALA:CB	2.80	0.46
7:TL:159:THR:OG1	25:1P:556:ASP:OD2	2.32	0.46
7:bL:35:ASN:OD1	29:bL:202:PEB:ND	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:cL:137:ARG:NH1	29:cL:202:PEB:NB	2.63	0.46
6:kL:43:LYS:HA	6:kL:43:LYS:HD2	1.67	0.46
7:pL:35:ASN:OD1	29:pL:202:PEB:ND	2.48	0.46
7:pL:38:LEU:HD13	6:qL:33:ARG:NH2	2.31	0.46
15:bM:265:LYS:HA	15:bM:268:ALA:HB2	1.97	0.46
17:BM:257:ALA:HB2	29:XM:201:PEB:HBC2	1.98	0.46
17:BM:266:GLY:HA3	17:BM:287:ALA:HB1	1.98	0.46
7:DM:141:PHE:HZ	29:DM:203:PEB:HMA3	1.81	0.46
7:LM:97:LEU:HD13	7:LM:165:VAL:HB	1.98	0.46
7:XM:97:LEU:HD13	7:XM:165:VAL:HB	1.98	0.46
6:AO:44:LEU:HD22	6:AO:152:PHE:HE1	1.81	0.46
21:DP:54:GLU:OE2	20:iP:49:ARG:NH1	2.48	0.46
20:CP:49:ARG:HH21	20:CP:140:LEU:HD22	1.81	0.46
20:EP:16:ARG:HG3	20:EP:16:ARG:HH11	1.81	0.46
21:BP:52:ILE:HD11	21:BP:86:ASP:HA	1.98	0.46
20:GP:17:TYR:CZ	23:WP:96:ARG:HB2	2.51	0.46
20:NP:38:ARG:O	20:NP:41:GLN:HB3	2.15	0.46
20:TP:16:ARG:HG3	20:TP:16:ARG:HH11	1.81	0.46
20:TP:49:ARG:HH21	20:TP:140:LEU:HD22	1.81	0.46
25:YP:179:ARG:O	25:YP:183:GLU:HB3	2.15	0.46
25:YP:687:LEU:H	25:YP:687:LEU:HD23	1.81	0.46
21:hP:65:ILE:O	21:hP:70:GLY:HA3	2.16	0.46
20:iP:102:THR:HB	20:iP:103:PRO:HD3	1.97	0.46
20:lP:154:ASP:OD2	21:oP:46:ALA:HB2	2.16	0.46
21:nP:107:ARG:CZ	24:zP:106:GLN:HE21	2.29	0.46
25:1P:39:GLU:O	25:1P:42:GLN:HB3	2.16	0.46
25:1P:545:ILE:HA	25:1P:548:LYS:HG2	1.96	0.46
6:CQ:27:ILE:HD11	7:DQ:38:LEU:HD21	1.98	0.46
7:HQ:50:CYS:C	29:HQ:203:PEB:HAA2	2.41	0.46
6:OR:43:LYS:HG3	29:OR:202:PEB:HBD1	1.96	0.46
6:SR:54:GLU:OE1	6:SR:137:ARG:NE	2.48	0.46
7:TR:82:CYS:HA	29:TR:201:PEB:HAA1	1.47	0.46
2:A1:81:PHE:HB3	2:A1:165:LEU:HD13	1.98	0.46
2:A1:97:GLY:HA3	6:d1:2:LYS:HD3	1.98	0.46
4:E1:67:THR:O	4:E1:67:THR:HG22	2.15	0.46
5:L1:36:GLN:O	5:L1:40:ILE:CD1	2.64	0.46
8:e2:92:MET:HG2	8:e2:125:ARG:NH1	2.31	0.46
8:e2:282:SER:OG	7:a7:150:LYS:HE2	2.15	0.46
6:M2:62:LYS:HG2	6:M2:63:TYR:CE1	2.51	0.46
6:O2:67:LYS:HG2	6:O2:73:GLY:O	2.16	0.46
7:P2:84:ARG:HG2	7:P2:88:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:34:SER:HA	6:A3:37:ARG:HG2	1.98	0.46
6:G3:102:THR:HG22	6:G3:155:TYR:CE1	2.51	0.46
7:L3:42:ASN:O	7:L3:46:SER:OG	2.26	0.46
10:d4:130:PRO:HB3	10:d4:240:GLU:HB3	1.98	0.46
10:d4:159:VAL:HG21	7:E4:84:ARG:HH12	1.80	0.46
7:C4:41:VAL:HG22	7:C4:97:LEU:HD21	1.96	0.46
7:E4:171:ARG:HH11	7:E4:171:ARG:CB	2.17	0.46
29:I4:203:PEB:C3C	29:I4:203:PEB:ND	2.78	0.46
7:K4:28:LYS:HB2	7:K4:28:LYS:HE2	1.56	0.46
7:I5:28:LYS:HZ3	19:zL:291:ILE:HG12	1.80	0.46
1:X7:105:LYS:HE2	1:X7:105:LYS:HB2	1.39	0.46
4:I7:93:ARG:HH22	5:L7:74:TYR:HH	1.51	0.46
7:B8:106:GLU:OE2	7:B8:171:ARG:NH1	2.49	0.46
7:I8:7:ARG:HH21	28:4P:138:LEU:HD21	1.79	0.46
6:J8:95:TYR:O	6:J8:99:VAL:N	2.44	0.46
2:A9:152:CYS:HB2	29:A9:304:PEB:H3A1	1.50	0.46
3:B9:94:ARG:NH1	4:K9:14:ASN:HD21	2.14	0.46
7:T9:75:THR:HG21	6:W9:108:TRP:CD1	2.50	0.46
6:U9:52:VAL:HG13	6:U9:86:VAL:HG12	1.96	0.46
6:h9:52:VAL:HG13	6:h9:86:VAL:HG12	1.96	0.46
7:k9:53:SER:O	7:k9:57:SER:OG	2.28	0.46
7:DA:130:ALA:HA	7:DA:133:ILE:HD12	1.98	0.46
7:FA:81:ALA:HB2	14:MA:174:ARG:NH2	2.31	0.46
14:MA:174:ARG:O	14:MA:177:SER:OG	2.28	0.46
15:bB:318:THR:HB	20:KP:83:ARG:CG	2.46	0.46
17:BB:181:THR:HG21	29:BB:301:PEB:CBA	2.44	0.46
17:BB:246:ARG:HA	17:BB:246:ARG:HD3	1.80	0.46
17:BB:257:ALA:HB2	29:XB:201:PEB:HBC2	1.98	0.46
7:DB:97:LEU:HD13	7:DB:165:VAL:HB	1.98	0.46
7:FB:97:LEU:HD13	7:FB:165:VAL:HB	1.98	0.46
7:RB:97:LEU:HD13	7:RB:165:VAL:HB	1.98	0.46
7:ZB:97:LEU:HD13	7:ZB:165:VAL:HB	1.98	0.46
7:gB:10:VAL:O	7:gB:10:VAL:HG12	2.15	0.46
7:iB:114:LYS:HD2	7:iB:114:LYS:O	2.15	0.46
7:mB:97:LEU:HD13	7:mB:165:VAL:HB	1.98	0.46
6:AC:164:SER:HA	6:KC:118:ARG:HG2	1.97	0.46
7:BC:134:MET:SD	7:BC:137:GLN:NE2	2.89	0.46
7:DC:134:MET:SD	7:DC:137:GLN:NE2	2.89	0.46
6:EC:4:VAL:HG11	6:EC:30:ASN:HD21	1.81	0.46
18:MC:65:LYS:HE2	18:MC:65:LYS:HB2	1.45	0.46
6:BD:1:MET:C	6:BD:2:LYS:HG3	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:84:ARG:HG2	6:BD:85:ASP:N	2.26	0.46
7:CD:75:THR:HA	29:FD:201:PEB:CBD	2.46	0.46
7:CD:137:GLN:H	7:CD:137:GLN:HG2	1.51	0.46
7:ED:28:LYS:HB2	7:ED:28:LYS:HE2	1.56	0.46
6:FD:78:LYS:HB3	29:FD:201:PEB:HMB1	1.98	0.46
6:FD:81:LYS:C	6:FD:84:ARG:CD	2.67	0.46
6:HD:117:TYR:O	6:HD:121:ASN:N	2.49	0.46
6:LD:78:LYS:HB3	29:LD:201:PEB:HMB1	1.98	0.46
7:LE:10:VAL:HG21	18:ME:258:THR:OG1	2.16	0.46
4:GF:28:ASN:ND2	29:HF:1002:PEB:OD	2.49	0.46
4:GF:145:GLN:HE21	29:JF:1002:PEB:HMC1	1.81	0.46
5:LF:68:GLN:CD	27:3P:110:SER:HG	2.20	0.46
5:Nf:37:ARG:NH1	5:Nf:97:MET:O	2.47	0.46
7:eF:139:VAL:HG13	7:eF:162:ALA:HB1	1.97	0.46
6:CG:24:LEU:HD13	7:DG:41:VAL:HG23	1.98	0.46
6:EG:150:VAL:O	6:EG:153:SER:OG	2.29	0.46
13:kH:17:TRP:HH2	13:kH:134:ILE:CD1	2.03	0.46
13:kH:134:ILE:HG13	13:kH:143:ALA:HB3	1.90	0.46
4:GI:28:ASN:ND2	29:HI:1002:PEB:OD	2.49	0.46
4:GI:145:GLN:HE21	29:JI:1002:PEB:HMC2	1.80	0.46
7:YI:146:ALA:O	7:YI:150:LYS:NZ	2.42	0.46
7:aI:56:VAL:CG1	7:aI:79:MET:HE1	2.46	0.46
7:BJ:119:ALA:HA	7:TJ:118:ILE:HD11	1.97	0.46
7:PJ:97:LEU:HD13	7:PJ:165:VAL:HB	1.97	0.46
6:UJ:21:ASN:HA	6:UJ:24:LEU:HD12	1.98	0.46
29:nJ:201:PEB:HBD1	16:xJ:108:ARG:CZ	2.46	0.46
6:qJ:21:ASN:HA	6:qJ:24:LEU:HD12	1.98	0.46
6:qJ:33:ARG:HB3	6:qJ:33:ARG:HH21	1.73	0.46
5:DK:106:ASP:HA	5:DK:110:LEU:HB2	1.98	0.46
5:HK:35:ASN:CG	29:HK:1002:PEB:O1C	2.59	0.46
6:dK:88:HIS:CD2	6:dK:91:ARG:HH21	2.33	0.46
7:BL:119:ALA:HA	7:TL:118:ILE:HD11	1.97	0.46
6:ML:147:GLN:NE2	29:PL:202:PEB:HMC1	2.22	0.46
7:RL:97:LEU:HD13	7:RL:165:VAL:HB	1.97	0.46
7:dL:97:LEU:HD13	7:dL:165:VAL:HB	1.97	0.46
6:gL:33:ARG:NE	6:iL:25:GLU:HG2	2.31	0.46
29:kL:201:PEB:HAC1	7:tL:79:MET:HG2	1.98	0.46
6:mL:98:VAL:HG13	7:nL:27:LEU:HD13	1.97	0.46
6:oL:9:VAL:CG1	7:pL:104:VAL:HG21	2.46	0.46
19:zL:363:ARG:HA	21:LP:62:TYR:CB	2.29	0.46
6:GM:137:ARG:HH21	6:GM:137:ARG:HG2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NM:141:PHE:HZ	29:NM:202:PEB:HMA3	1.81	0.46
7:eM:1:MET:HE3	7:eM:1:MET:HB2	1.89	0.46
7:HN:130:ALA:HA	7:HN:133:ILE:HD12	1.98	0.46
7:LN:113:LEU:O	7:LN:116:THR:OG1	2.29	0.46
20:CP:38:ARG:O	20:CP:41:GLN:HB3	2.15	0.46
21:FP:72:MET:HA	21:FP:77:ARG:HB3	1.97	0.46
21:HP:75:THR:CG2	20:JP:108:GLY:HA2	2.46	0.46
21:SP:52:ILE:HD11	21:SP:86:ASP:HA	1.98	0.46
20:TP:102:THR:HB	20:TP:103:PRO:HD3	1.98	0.46
23:WP:59:LEU:HD22	23:WP:135:VAL:HB	1.97	0.46
23:WP:143:ILE:HG22	23:WP:157:ILE:HD13	1.97	0.46
25:YP:667:LEU:O	25:YP:668:LYS:HB3	2.16	0.46
27:aP:65:ASP:OD1	27:aP:69:ARG:HB2	2.16	0.46
21:dP:15:GLN:HG2	23:yP:133:ILE:HB	1.98	0.46
20:mP:102:THR:HB	20:mP:103:PRO:HD3	1.98	0.46
25:1P:846:PRO:HG2	25:1P:849:ASN:ND2	2.22	0.46
26:2P:60:ARG:NH1	26:2P:69:VAL:O	2.49	0.46
6:CQ:2:LYS:CE	14:MQ:138:SER:OG	2.64	0.46
6:CQ:142:ARG:HE	29:CQ:202:PEB:C4C	2.29	0.46
6:EQ:33:ARG:O	6:EQ:37:ARG:N	2.34	0.46
7:JQ:129:ARG:HH21	7:JQ:133:ILE:HG13	1.80	0.46
8:eR:57:PHE:HB3	7:TR:84:ARG:NH1	2.23	0.46
8:eR:92:MET:HG2	8:eR:125:ARG:NH1	2.31	0.46
8:eR:182:TYR:HE1	8:eR:187:PHE:HB3	1.81	0.46
6:OR:115:GLU:HA	6:OR:118:ARG:NH2	2.31	0.46
6:UR:51:VAL:HA	6:UR:54:GLU:HG3	1.98	0.46
1:X1:212:THR:HG21	7:T1:84:ARG:HH12	1.81	0.46
5:F1:106:ASP:HA	5:F1:110:LEU:HB2	1.98	0.46
5:J1:106:ASP:HA	5:J1:110:LEU:HB2	1.98	0.46
8:e2:278:LEU:O	6:W7:132:ALA:HB1	2.16	0.46
6:S2:131:ILE:HG21	6:S2:160:ILE:HG13	1.98	0.46
7:V2:38:LEU:HD13	29:V2:202:PEB:C3D	2.45	0.46
6:E3:34:SER:HA	6:E3:37:ARG:HG2	1.97	0.46
6:G3:74:GLU:H	6:G3:78:LYS:HD3	1.80	0.46
10:d4:144:LEU:O	10:d4:145:LEU:HD12	2.15	0.46
10:d4:151:SER:H	10:d4:154:GLU:CD	2.24	0.46
10:d4:298:TYR:HE2	5:FF:17:GLU:HB3	1.81	0.46
6:D4:78:LYS:HB3	29:D4:201:PEB:HMB1	1.98	0.46
7:E4:24:LEU:HB3	7:E4:28:LYS:NZ	2.31	0.46
6:H4:78:LYS:HB3	29:H4:201:PEB:HMB1	1.98	0.46
6:H4:113:ALA:HA	7:M4:76:ASN:ND2	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M4:38:LEU:HA	7:M4:38:LEU:HD23	1.64	0.46
7:M4:60:ILE:CG2	7:M4:67:ILE:CD1	2.88	0.46
1:X7:263:THR:CB	5:D7:115:GLU:HG2	2.44	0.46
2:A7:153:GLN:OE1	2:A7:157:ASP:OD2	2.34	0.46
7:F8:101:ASP:OD2	7:F8:103:SER:OG	2.30	0.46
7:G8:72:MEN:HE23	29:G8:201:PEB:HMB2	1.98	0.46
7:I8:27:LEU:HB3	19:zJ:294:GLY:HA3	1.97	0.46
7:I8:78:ARG:HG2	29:I8:201:PEB:HMB1	1.97	0.46
7:I8:158:CYS:SG	29:I8:202:PEB:H2A1	2.54	0.46
7:L8:148:GLU:OE2	29:L8:203:PEB:NA	2.49	0.46
3:B9:9:SER:OG	3:B9:10:LEU:N	2.45	0.46
3:B9:186:ILE:H	3:B9:186:ILE:HG13	1.48	0.46
6:S9:56:GLY:HA3	6:S9:83:TYR:HE1	1.81	0.46
6:Z9:52:VAL:HG13	6:Z9:86:VAL:HG12	1.96	0.46
7:DA:59:MET:HE3	7:DA:59:MET:HB3	1.89	0.46
6:GA:128:VAL:HG12	6:GA:163:LEU:HD12	1.97	0.46
14:MA:102:LYS:HE2	14:MA:103:ARG:HH11	1.81	0.46
30:MA:402:PUB:NB	30:MA:402:PUB:NC	2.64	0.46
7:TB:141:PHE:HZ	29:TB:203:PEB:HMA3	1.81	0.46
7:eB:141:PHE:HZ	29:eB:202:PEB:HMA3	1.81	0.46
7:gB:53[A]:SER:HB2	6:jB:120:LEU:HD23	1.97	0.46
7:iB:97:LEU:HD13	7:iB:165:VAL:HB	1.98	0.46
7:BC:75:THR:O	7:BC:79:MET:HG2	2.15	0.46
10:dD:130:PRO:HB3	10:dD:240:GLU:HB3	1.98	0.46
10:dD:207:MET:HE2	10:dD:207:MET:HB3	1.87	0.46
6:FD:81:LYS:CD	6:FD:84:ARG:HD2	2.07	0.46
7:GD:24:LEU:HB3	7:GD:28:LYS:NZ	2.31	0.46
7:MD:71:GLY:O	7:MD:73:CYS:N	2.46	0.46
7:DE:134:MET:SD	7:DE:137:GLN:NE2	2.89	0.46
6:GE:50:ALA:HA	6:GE:53:LYS:HB2	1.97	0.46
6:IE:6:THR:HA	7:JE:1:MET:HE2	1.98	0.46
18:ME:271:ARG:HG2	18:ME:293:MET:HE2	1.98	0.46
18:ME:303:PHE:HB2	6:gL:83:TYR:CG	2.41	0.46
1:XF:341:ASP:OD1	1:XF:341:ASP:N	2.36	0.46
3:BF:34:THR:HG23	3:BF:80:ILE:HD11	1.97	0.46
5:DF:74:TYR:HE1	4:GF:90:TYR:CZ	2.34	0.46
4:KF:101:VAL:HG23	5:LF:9:VAL:HG21	1.98	0.46
7:DG:113:LEU:O	7:DG:116:THR:OG1	2.29	0.46
6:KG:33:ARG:O	6:KG:37:ARG:N	2.34	0.46
13:kH:232:PHE:HB2	6:OR:69:PRO:HG2	1.98	0.46
1:XI:108:SER:HB2	7:aI:84:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:259:ARG:NH2	2:AI:274:ASN:OD1	2.48	0.46
5:JI:4:ALA:HB3	5:JI:30:MET:HE1	1.97	0.46
5:JI:18:PHE:CE2	27:aP:98:GLN:HB2	2.51	0.46
5:LI:72:MEN:HE21	27:aP:114:PRO:HD2	1.98	0.46
7:VI:139:VAL:HG13	7:VI:162:ALA:HB1	1.97	0.46
6:GJ:43:LYS:HA	6:GJ:43:LYS:HD2	1.67	0.46
7:NJ:97:LEU:HD13	7:NJ:165:VAL:HB	1.97	0.46
6:YJ:43:LYS:HA	6:YJ:43:LYS:HD2	1.67	0.46
7:dJ:35:ASN:OD1	29:dJ:202:PEB:ND	2.48	0.46
7:hJ:35:ASN:OD1	29:hJ:202:PEB:ND	2.48	0.46
7:lJ:35:ASN:OD1	29:lJ:202:PEB:ND	2.48	0.46
6:oJ:9:VAL:CG1	7:pJ:104:VAL:HG21	2.46	0.46
7:pJ:97:LEU:HD13	7:pJ:165:VAL:HB	1.97	0.46
7:rJ:35:ASN:OD1	29:rJ:202:PEB:ND	2.48	0.46
7:tJ:97:LEU:HD13	7:tJ:165:VAL:HB	1.97	0.46
16:wJ:41:ASN:ND2	16:wJ:41:ASN:C	2.73	0.46
16:xJ:105:ARG:HH12	29:xJ:303:PEB:HBB2	0.81	0.46
30:yJ:303:PUB:NC	30:yJ:303:PUB:NB	2.64	0.46
19:zJ:136:ALA:O	19:zJ:185:TYR:OH	2.27	0.46
19:zJ:231:GLY:N	19:zJ:260:ASP:O	2.46	0.46
1:XK:241:SER:HA	1:XK:245:ASP:HB2	1.97	0.46
5:DK:20:SER:H	5:DK:23:GLN:HE21	1.63	0.46
5:FK:59:LEU:HD22	5:FK:130:ALA:HB2	1.97	0.46
5:HK:35:ASN:CG	29:HK:1002:PEB:HND	2.23	0.46
5:LK:106:ASP:HA	5:LK:110:LEU:HB2	1.98	0.46
5:NK:38:LEU:HD12	29:NK:1002:PEB:C3D	2.46	0.46
5:NK:40:ILE:CG1	29:NK:1002:PEB:CBA	2.81	0.46
7:YK:46:SER:CB	6:ZK:157:ASP:OD2	2.63	0.46
7:gK:7:ARG:HG2	14:MN:98:LEU:HD11	1.97	0.46
7:LL:1:MET:HE3	7:LL:1:MET:HB2	1.80	0.46
6:WL:85:ASP:OD2	6:WL:127:TYR:OH	2.30	0.46
6:cL:21:ASN:HA	6:cL:24:LEU:HD12	1.98	0.46
7:fL:97:LEU:HD13	7:fL:165:VAL:HB	1.97	0.46
16:xL:88:GLU:HG2	30:xL:305:PUB:HHC1	1.98	0.46
15:bM:153:ASP:OD1	15:bM:203:PRO:CG	2.51	0.46
16:AM:180:SER:OG	29:kM:201:PEB:OD	2.28	0.46
17:BM:126:MET:HE1	17:BM:232:GLN:HB3	1.98	0.46
7:eM:59:MET:HE2	7:eM:59:MET:HB3	1.89	0.46
6:EN:1:MET:HE3	14:MN:196:ASN:HD22	1.81	0.46
6:KN:91:ARG:HH11	7:LN:16:ALA:HA	1.80	0.46
7:LN:133:ILE:HG23	29:LN:203:PEB:HBC1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DO:107:ASP:HA	7:DO:111:ASN:HB2	1.98	0.46
7:HO:107:ASP:HA	7:HO:111:ASN:HB2	1.97	0.46
6:IO:34:SER:HA	6:IO:37:ARG:HG2	1.98	0.46
6:IO:44:LEU:HD22	6:IO:152:PHE:HE1	1.81	0.46
7:JO:84:ARG:HH12	9:OO:63:TYR:HB3	1.81	0.46
7:MO:163:SER:HB2	9:OO:383:ASN:HA	1.98	0.46
21:LP:75:THR:CG2	20:NP:108:GLY:HA2	2.46	0.46
20:PP:155:TYR:HA	26:ZP:135:LEU:HD21	1.98	0.46
20:RP:102:THR:HB	20:RP:103:PRO:HD3	1.97	0.46
21:SP:65:ILE:O	21:SP:70:GLY:HA3	2.16	0.46
21:UP:52:ILE:HD11	21:UP:86:ASP:HA	1.98	0.46
22:VP:98:ALA:O	22:VP:100:ASP:N	2.43	0.46
23:WP:36:LYS:O	23:WP:40:ILE:HG13	2.16	0.46
25:YP:56:ILE:CG2	25:YP:216:ILE:HD11	2.46	0.46
28:bP:60:ASP:N	28:bP:60:ASP:OD1	2.49	0.46
20:vP:131:ARG:HH22	27:3P:250:VAL:CB	2.29	0.46
23:yP:143:ILE:HG22	23:yP:157:ILE:HD13	1.97	0.46
25:1P:332:PRO:HG2	25:1P:333:TYR:CE2	2.50	0.46
25:1P:687:LEU:H	25:1P:687:LEU:HD23	1.81	0.46
6:AQ:142:ARG:HE	29:AQ:202:PEB:C4C	2.29	0.46
7:BQ:113:LEU:O	7:BQ:116:THR:OG1	2.29	0.46
6:MR:62:LYS:HG2	6:MR:63:TYR:CE1	2.51	0.46
6:QR:37:ARG:NH1	6:QR:98:VAL:O	2.48	0.46
6:QR:37:ARG:HH12	6:QR:98:VAL:HA	1.74	0.46
5:D1:106:ASP:HA	5:D1:110:LEU:HB2	1.98	0.45
5:H1:106:ASP:HA	5:H1:110:LEU:HB2	1.98	0.45
6:W1:54:GLU:OE2	29:W1:202:PEB:CMC	2.65	0.45
7:V2:134:MET:HA	7:V2:137:GLN:HG3	1.98	0.45
6:W2:115:GLU:N	6:W2:118:ARG:HH21	2.14	0.45
6:E3:44:LEU:HD22	6:E3:152:PHE:HE1	1.81	0.45
6:G3:24:LEU:HD11	29:H3:202:PEB:CAD	2.46	0.45
7:M3:163:SER:HB2	9:O3:383:ASN:HA	1.98	0.45
10:d4:336:LYS:O	10:d4:339:LEU:HG	2.16	0.45
6:B4:17:ARG:NH2	6:B4:17:ARG:HB2	2.32	0.45
7:C4:88:ILE:HG21	29:C4:201:PEB:HAD1	1.98	0.45
7:C4:133:ILE:HD12	29:C4:203:PEB:HMC3	1.97	0.45
6:D4:117:TYR:O	6:D4:121:ASN:N	2.49	0.45
7:E4:7:ARG:HE	7:E4:7:ARG:CA	2.26	0.45
6:F4:142:ARG:HE	6:F4:142:ARG:HB2	1.46	0.45
6:H4:55:ALA:O	6:H4:58:ALA:N	2.45	0.45
6:H4:81:LYS:HE2	6:H4:84:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K4:148:GLU:CD	29:K4:203:PEB:OA	2.60	0.45
7:M4:24:LEU:HB3	7:M4:28:LYS:NZ	2.31	0.45
7:F5:72:MEN:HE23	29:F5:201:PEB:HMB2	1.98	0.45
4:E7:97:TYR:O	4:E7:101:VAL:HB	2.16	0.45
4:M7:6:THR:HG23	5:N7:3:ASP:OD2	2.16	0.45
6:S7:52:VAL:HG13	6:S7:86:VAL:HG12	1.96	0.45
6:l7:5:ILE:HD12	7:m7:3:ASP:HB3	1.15	0.45
7:I8:15:LYS:HD3	7:I8:15:LYS:HA	1.84	0.45
2:A9:200:ARG:HH21	7:g9:91:ARG:HH22	1.64	0.45
4:G9:97:TYR:O	4:G9:101:VAL:HB	2.16	0.45
4:I9:134:GLN:HG3	13:kH:192:VAL:HG22	1.92	0.45
7:i9:53:SER:O	7:i9:57:SER:OG	2.28	0.45
7:DA:133:ILE:HG23	29:DA:203:PEB:HBC1	1.97	0.45
6:EA:33:ARG:NH1	6:EA:147:GLN:HB3	2.31	0.45
7:FA:128:ILE:HA	7:FA:131:VAL:HG12	1.96	0.45
29:HA:201:PEB:OD	14:MA:299:ARG:NH2	2.40	0.45
6:KA:13:ASP:CG	7:LA:108:ARG:HD3	2.40	0.45
15:bB:233:ASN:HA	7:NB:78:ARG:NH2	2.31	0.45
17:BB:266:GLY:HA3	17:BB:287:ALA:HB1	1.98	0.45
7:NB:141:PHE:HZ	29:NB:202:PEB:HMA3	1.81	0.45
7:ZB:141:PHE:HZ	29:ZB:203:PEB:HMA3	1.81	0.45
7:DC:75:THR:O	7:DC:79:MET:HG2	2.15	0.45
6:GC:4:VAL:HG11	6:GC:30:ASN:HD21	1.81	0.45
6:IC:4:VAL:HG11	6:IC:30:ASN:HD21	1.81	0.45
18:MC:148:GLU:OE1	18:MC:148:GLU:HA	2.15	0.45
10:dD:144:LEU:O	10:dD:145:LEU:HD12	2.15	0.45
10:dD:289:LEU:HD12	10:dD:289:LEU:O	2.16	0.45
7:GD:135:LYS:NZ	7:GD:169:PHE:HB2	2.30	0.45
7:ID:58:GLY:HA3	29:ID:203:PEB:C2D	2.47	0.45
6:JD:59:CYS:SG	6:JD:60:PHE:N	2.89	0.45
7:DE:123:PRO:O	7:DE:126:SER:OG	2.34	0.45
7:JE:75:THR:O	7:JE:79:MET:HG2	2.15	0.45
7:JE:115:GLU:HA	7:JE:118:ILE:HG12	1.97	0.45
18:ME:62:GLY:N	18:ME:65:LYS:HD3	2.31	0.45
3:BF:226:GLN:CD	5:JF:153:CYS:H	2.23	0.45
5:FF:75:THR:HB	5:FF:78:ARG:H	1.81	0.45
5:JF:22:THR:CA	27:3P:92:PRO:HG2	2.42	0.45
5:NF:150:ILE:O	5:NF:150:ILE:CG2	2.64	0.45
7:kF:3:ASP:OD1	7:kF:6:SER:OG	2.30	0.45
6:AG:142:ARG:HE	29:AG:202:PEB:C4C	2.29	0.45
7:DG:55:ALA:HA	7:DG:133:ILE:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:kH:109:GLU:OE1	4:EK:67:THR:CG2	2.57	0.45
1:XI:341:ASP:OD1	1:XI:341:ASP:N	2.36	0.45
5:JI:143:ASN:HB3	27:aP:63:ARG:HH22	1.81	0.45
5:LI:75:THR:HB	5:LI:78:ARG:H	1.81	0.45
6:dI:48:HIS:HA	6:dI:51:VAL:HG12	1.98	0.45
7:eI:131:VAL:HA	7:eI:134:MET:HB2	1.97	0.45
7:kI:170:ASP:OD1	7:kI:171:ARG:N	2.50	0.45
7:DJ:24:LEU:O	7:DJ:25:GLN:C	2.58	0.45
7:FJ:128:ILE:HD13	7:FJ:128:ILE:HA	1.72	0.45
7:HJ:25:GLN:CG	7:HJ:26:ALA:N	2.58	0.45
6:YJ:74:GLU:N	6:YJ:78:LYS:HG3	2.30	0.45
7:IJ:108:ARG:HG2	16:xJ:183:LYS:NZ	2.31	0.45
16:wJ:165:ARG:HH12	29:wJ:303:PEB:C1C	2.30	0.45
17:yJ:123:LYS:HA	17:yJ:123:LYS:HD3	1.81	0.45
1:XK:225:PHE:O	1:XK:229:ARG:NH2	2.49	0.45
2:AK:81:PHE:HB3	2:AK:165:LEU:HD13	1.98	0.45
2:AK:97:GLY:HA3	6:dK:2:LYS:HD3	1.98	0.45
6:UK:157:ASP:OD1	6:UK:157:ASP:N	2.47	0.45
7:DL:97:LEU:HD13	7:DL:165:VAL:HB	1.97	0.45
6:GL:106:ASP:OD1	6:GL:158:TYR:OH	2.31	0.45
7:HL:97:LEU:HD13	7:HL:165:VAL:HB	1.97	0.45
6:KL:85:ASP:OD2	6:KL:127:TYR:OH	2.30	0.45
7:TL:33:ASP:HB3	7:TL:36:LYS:HE3	1.97	0.45
7:XL:97:LEU:HD13	7:XL:165:VAL:HB	1.97	0.45
6:iL:161:ASN:C	16:wL:92:LYS:HZ3	2.24	0.45
6:mL:98:VAL:CG2	7:nL:24:LEU:HD21	2.39	0.45
7:nL:97:LEU:HD13	7:nL:165:VAL:HB	1.97	0.45
6:oL:16:GLY:HA2	7:pL:91:ARG:CZ	2.46	0.45
19:zL:320:PHE:HZ	20:NP:86:ASP:CB	2.28	0.45
6:CM:50:ALA:O	6:CM:54:GLU:HG2	2.16	0.45
7:TM:10:VAL:HG12	7:TM:10:VAL:O	2.15	0.45
7:TM:141:PHE:HZ	29:TM:203:PEB:HMA3	1.81	0.45
7:gM:35:ASN:N	7:gM:35:ASN:ND2	2.64	0.45
6:jM:157:ASP:OD2	7:mM:46:SER:HB3	2.15	0.45
7:mM:141:PHE:HZ	29:mM:203:PEB:HMA3	1.81	0.45
7:HN:37:ARG:NH2	7:HN:164:GLU:OE1	2.38	0.45
29:IO:203:PEB:NC	7:LO:39:ASP:OD2	2.42	0.45
9:OO:81:TRP:HA	9:OO:84:ILE:HG22	1.98	0.45
21:LP:107:ARG:CZ	24:XP:106:GLN:HE21	2.29	0.45
25:YP:709:GLU:HA	25:YP:835:VAL:O	2.16	0.45
20:cP:49:ARG:HH21	20:cP:140:LEU:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:eP:38:ARG:O	20:eP:41:GLN:HB3	2.15	0.45
20:eP:102:THR:HB	20:eP:103:PRO:HD3	1.97	0.45
21:jP:52:ILE:HD11	21:jP:86:ASP:HA	1.98	0.45
21:nP:38:VAL:HG13	22:xP:23:LEU:HD22	1.97	0.45
25:1P:171:LEU:HD13	25:1P:223:VAL:HG23	1.97	0.45
25:1P:735:ILE:HD13	25:1P:744:ILE:HD11	1.98	0.45
6:AQ:4:VAL:O	6:AQ:7:THR:OG1	2.30	0.45
7:HQ:55:ALA:HA	7:HQ:133:ILE:HG21	1.97	0.45
6:KQ:142:ARG:HE	29:KQ:202:PEB:C4C	2.29	0.45
4:C1:100:VAL:HG21	5:D1:19:LEU:CD1	2.46	0.45
4:E1:50:ARG:N	6:Q7:53:LYS:NZ	2.63	0.45
4:E1:143:SER:HA	4:E1:147:ALA:HB2	1.98	0.45
5:L1:41:VAL:HG21	5:L1:98:ILE:HG12	1.90	0.45
6:M2:43:LYS:HD2	6:M2:43:LYS:C	2.42	0.45
6:O2:43:LYS:HD3	6:O2:43:LYS:HA	1.77	0.45
6:U2:51:VAL:HA	6:U2:54:GLU:HG3	1.98	0.45
7:D3:107:ASP:HA	7:D3:111:ASN:HB2	1.98	0.45
6:G3:44:LEU:HD22	6:G3:152:PHE:HE1	1.81	0.45
7:J3:84:ARG:HH12	9:O3:63:TYR:HB3	1.81	0.45
7:E4:15:LYS:HB2	7:E4:15:LYS:HE2	1.64	0.45
7:G4:102:ALA:HB1	7:G4:105:LEU:HB2	1.99	0.45
7:G4:148:GLU:OE2	29:G4:203:PEB:OA	2.34	0.45
7:I4:24:LEU:HB3	7:I4:28:LYS:NZ	2.31	0.45
6:J4:78:LYS:HB3	29:J4:201:PEB:HMB1	1.98	0.45
7:M4:41:VAL:HG21	7:M4:98:LEU:CD1	2.45	0.45
7:M4:88:ILE:HG21	29:M4:201:PEB:HAD1	1.98	0.45
7:B5:148:GLU:OE2	29:B5:203:PEB:NA	2.49	0.45
7:G5:148:GLU:OE2	29:G5:203:PEB:NA	2.49	0.45
7:I5:36:LYS:HB3	7:I5:161:LEU:HD11	1.97	0.45
11:D5:219:TYR:HD1	5:HK:151:GLY:HA2	1.40	0.45
13:k6:174:VAL:O	13:k6:174:VAL:HG22	2.15	0.45
5:N7:159:GLU:CB	26:2P:101:VAL:HG11	2.45	0.45
6:b7:52:VAL:HG13	6:b7:86:VAL:HG12	1.96	0.45
7:I8:142:ILE:HD12	7:I8:142:ILE:HA	1.68	0.45
11:D8:251:ILE:HG12	11:D8:263:VAL:HG23	1.99	0.45
1:X9:47:ASN:HD22	7:a9:78:ARG:HH12	1.63	0.45
29:V9:203:PEB:H1D1	13:kH:153:LYS:NZ	2.32	0.45
7:DA:56:VAL:HG22	6:KA:120:LEU:HD21	1.97	0.45
6:EA:1:MET:CE	14:MA:196:ASN:HD21	2.29	0.45
7:HA:130:ALA:HA	7:HA:133:ILE:HD12	1.98	0.45
7:JA:133:ILE:HG23	29:JA:203:PEB:HBC1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BB:81:ALA:HA	7:RB:115:GLU:CD	2.42	0.45
7:DB:141:PHE:HZ	29:DB:203:PEB:HMA3	1.81	0.45
7:cB:141:PHE:HZ	29:cB:203:PEB:HMA3	1.81	0.45
7:gB:84:ARG:CZ	7:gB:84:ARG:CB	2.95	0.45
6:lB:53:LYS:HA	6:lB:53:LYS:HE3	1.98	0.45
6:AC:4:VAL:HG11	6:AC:30:ASN:HD21	1.81	0.45
7:DC:75:THR:HG22	7:DC:77:ARG:H	1.82	0.45
18:MC:271:ARG:HG2	18:MC:293:MET:HE2	1.98	0.45
7:ED:93:VAL:HG21	7:ED:169:PHE:CZ	2.50	0.45
6:HD:161:ASN:OD1	6:HD:161:ASN:N	2.48	0.45
6:JD:75:ASN:ND2	6:JD:77:GLU:HG2	2.28	0.45
6:LD:9:VAL:HB	7:MD:95:TYR:CD1	2.52	0.45
6:LD:81:LYS:HE2	6:LD:84:ARG:CZ	2.47	0.45
6:AE:99:VAL:HG13	7:BE:9:VAL:HG21	1.98	0.45
7:BE:79:MET:HG3	29:EE:201:PEB:CMC	2.47	0.45
6:EE:4:VAL:HG11	6:EE:30:ASN:HD21	1.81	0.45
18:ME:142:GLY:HA2	18:ME:143:PRO:HD3	1.82	0.45
18:ME:229:GLU:HG2	18:ME:242:LYS:HE2	1.83	0.45
4:GF:145:GLN:HE21	29:JF:1002:PEB:HMC2	1.80	0.45
5:JF:166:ARG:NH2	27:3P:86:LYS:HZ3	2.14	0.45
6:OF:9:VAL:HG23	7:PF:1:MET:SD	2.55	0.45
7:BG:141:PHE:HZ	29:BG:203:PEB:CMA	2.29	0.45
7:LG:112:GLY:CA	14:MG:232:LYS:O	2.64	0.45
14:MG:158:ARG:HH11	30:MG:403:PUB:C4D	2.29	0.45
1:XI:362:PRO:HG2	7:PI:114:LYS:NZ	2.32	0.45
4:CI:155:ASP:HB3	5:NI:46:SER:HB2	1.96	0.45
5:DI:75:THR:HB	5:DI:78:ARG:H	1.81	0.45
4:GI:101:VAL:HG23	5:HI:9:VAL:HG21	1.98	0.45
4:GI:117:GLU:OE1	4:GI:120:ARG:NH2	2.45	0.45
4:GI:145:GLN:HE21	29:JI:1002:PEB:HMC1	1.81	0.45
6:bI:17:ARG:O	7:cI:95:TYR:OH	2.25	0.45
7:mI:139:VAL:HG13	7:mI:162:ALA:HB1	1.97	0.45
6:GJ:139:CYS:HB3	29:GJ:202:PEB:H3A1	1.72	0.45
29:kJ:201:PEB:HAC1	7:tJ:79:MET:HG2	1.98	0.45
6:oJ:16:GLY:HA2	7:pJ:91:ARG:CZ	2.46	0.45
1:XK:120:ASP:N	1:XK:120:ASP:OD1	2.47	0.45
3:BK:203:ILE:HG21	20:lP:82:LEU:HD11	1.88	0.45
4:CK:114:GLY:O	4:CK:117:GLU:OE1	2.33	0.45
4:EK:40:ALA:HB2	4:EK:146:VAL:CG1	2.27	0.45
5:JK:145:THR:HG22	5:JK:150:ILE:CD1	2.42	0.45
6:WK:54:GLU:OE2	29:WK:202:PEB:CMC	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OL:68:ASN:HB2	6:OL:71:GLU:HG2	1.89	0.45
6:YL:21:ASN:HA	6:YL:24:LEU:HD12	1.98	0.45
7:bL:97:LEU:HD13	7:bL:165:VAL:HB	1.97	0.45
6:cL:137:ARG:HH12	29:cL:202:PEB:C4B	2.28	0.45
16:xL:40:VAL:CG1	16:xL:41:ASN:HD22	2.27	0.45
16:xL:86:CYS:HB2	30:xL:305:PUB:HBA1	1.55	0.45
7:VM:97:LEU:HD13	7:VM:165:VAL:HB	1.98	0.45
7:VM:141:PHE:HZ	29:VM:203:PEB:HMA3	1.81	0.45
7:gM:84:ARG:CG	7:gM:84:ARG:NH1	2.80	0.45
7:iM:114:LYS:HD2	7:iM:114:LYS:O	2.15	0.45
6:lM:54:GLU:CD	29:lM:202:PEB:CMC	2.75	0.45
7:BN:130:ALA:HA	7:BN:133:ILE:HD12	1.98	0.45
7:DN:130:ALA:HA	7:DN:133:ILE:HD12	1.98	0.45
6:IN:108:TRP:HZ3	7:JN:13:ASP:OD2	1.97	0.45
7:JN:130:ALA:HA	7:JN:133:ILE:HD12	1.98	0.45
6:GO:102:THR:HG22	6:GO:155:TYR:CE1	2.51	0.45
29:NO:203:PEB:HMC1	29:NO:203:PEB:HMD1	1.98	0.45
9:OO:51:LYS:HD2	9:OO:51:LYS:HA	1.84	0.45
21:DP:52:ILE:HD11	21:DP:86:ASP:HA	1.98	0.45
21:FP:17:LYS:C	20:EP:90:ARG:HD2	2.42	0.45
20:PP:16:ARG:HG3	20:PP:16:ARG:HH11	1.81	0.45
20:TP:38:ARG:O	20:TP:41:GLN:HB3	2.15	0.45
21:fP:58:LYS:HB3	21:fP:58:LYS:HE2	1.81	0.45
21:hP:87:TYR:HE2	25:1P:610:PHE:CZ	2.33	0.45
25:1P:42:GLN:HG3	25:1P:42:GLN:O	2.15	0.45
25:1P:132:PHE:CZ	25:1P:193:VAL:HG21	2.52	0.45
25:1P:556:ASP:HB3	25:1P:558:ASN:ND2	2.31	0.45
27:3P:65:ASP:OD1	27:3P:69:ARG:HB2	2.16	0.45
6:AQ:42:GLU:HA	6:AQ:45:ALA:HB3	1.99	0.45
6:EQ:142:ARG:HE	29:EQ:202:PEB:C4C	2.29	0.45
6:GQ:42:GLU:HA	6:GQ:45:ALA:HB3	1.99	0.45
7:HQ:54:ASP:CG	29:HQ:203:PEB:HHC1	2.40	0.45
7:HQ:129:ARG:HH21	7:HQ:133:ILE:HG13	1.80	0.45
8:eR:63:VAL:HB	6:OR:107:GLU:HB3	1.98	0.45
8:eR:230:LEU:HD21	8:eR:247:LEU:HD11	1.98	0.45
1:X1:368:ILE:HD12	5:D1:116:THR:HG22	1.98	0.45
4:C1:63:PHE:HB3	4:C1:65:TYR:CE1	2.52	0.45
5:J1:17:GLU:CD	15:bB:333:ARG:HD3	2.29	0.45
7:c1:112:GLY:O	7:c1:116:THR:OG1	2.31	0.45
7:k1:149:ARG:NH2	6:l1:157:ASP:OD2	2.49	0.45
8:e2:79:ASP:HA	8:e2:82:THR:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:1:MET:SD	6:A3:1:MET:N	2.80	0.45
6:C3:44:LEU:HD22	6:C3:152:PHE:HE1	1.81	0.45
6:K3:40:ALA:HB2	6:K3:148:ALA:HB1	1.99	0.45
7:C4:133:ILE:HD11	29:C4:203:PEB:HHC2	1.97	0.45
6:F4:43:LYS:HZ2	6:F4:43:LYS:C	2.24	0.45
7:M4:93:VAL:HG21	7:M4:169:PHE:CZ	2.50	0.45
7:F5:91:ARG:HB3	12:E5:141:PRO:HD2	1.99	0.45
7:F5:148:GLU:OE2	29:F5:203:PEB:NA	2.49	0.45
7:G5:72:MEN:HE23	29:G5:201:PEB:HMB2	1.98	0.45
7:L5:72:MEN:HE23	29:L5:201:PEB:HMB2	1.98	0.45
7:A5:40:ALA:HA	7:A5:142:ILE:HD11	1.97	0.45
13:k6:153:LYS:NZ	29:V7:203:PEB:H1D1	2.32	0.45
13:k6:261:MET:CE	6:U7:83:TYR:CD2	2.93	0.45
4:C7:97:TYR:O	4:C7:101:VAL:HB	2.16	0.45
5:D7:90:LEU:O	5:D7:94:SER:OG	2.33	0.45
7:C8:40:ALA:HA	7:C8:142:ILE:HD11	1.97	0.45
7:C8:74:TYR:C	7:C8:75:THR:HG1	2.08	0.45
12:E8:173:PHE:O	12:E8:176:SER:OG	2.33	0.45
3:B9:94:ARG:HE	3:B9:94:ARG:HB2	1.57	0.45
6:Q9:69:PRO:CG	13:kH:102:TYR:OH	2.51	0.45
7:e9:42:ASN:O	7:e9:46:SER:OG	2.30	0.45
6:EA:33:ARG:HH21	6:EA:151:GLU:CD	2.25	0.45
7:HA:106:GLU:HA	7:HA:110:LEU:HD12	1.99	0.45
15:bB:360:ASN:ND2	6:MB:80:ASN:OD1	2.48	0.45
7:JB:97:LEU:HD13	7:JB:165:VAL:HB	1.98	0.45
7:LB:141:PHE:HZ	29:LB:203:PEB:HMA3	1.81	0.45
7:cB:97:LEU:HD13	7:cB:165:VAL:HB	1.98	0.45
6:IB:9:VAL:O	6:IB:9:VAL:HG12	2.14	0.45
6:AC:81:LYS:NZ	29:AC:201:PEB:O2C	2.41	0.45
7:BC:79:MET:HG3	29:EC:201:PEB:CMC	2.47	0.45
6:CC:136:ASP:OD1	6:CC:136:ASP:N	2.42	0.45
6:EC:92:LEU:HD11	6:EC:108:TRP:HB2	1.99	0.45
7:HC:75:THR:HG22	7:HC:77:ARG:H	1.82	0.45
7:LC:134:MET:SD	7:LC:137:GLN:NE2	2.89	0.45
7:GD:102:ALA:HB1	7:GD:105:LEU:HB2	1.99	0.45
7:ID:24:LEU:HB3	7:ID:28:LYS:NZ	2.31	0.45
6:LD:27:ILE:H	6:LD:27:ILE:HG13	1.18	0.45
7:JE:134:MET:SD	7:JE:137:GLN:NE2	2.89	0.45
18:ME:312:LEU:HD13	18:ME:313:THR:HG23	1.96	0.45
7:PF:2:LEU:CD2	7:PF:6:SER:CB	2.70	0.45
7:TF:82:CYS:HA	29:TF:201:PEB:CAA	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:fF:32:GLN:HG3	6:hF:32:GLN:HG3	1.99	0.45
7:kF:56:VAL:CG1	7:kF:79:MET:HE1	2.46	0.45
6:EG:42:GLU:HA	6:EG:45:ALA:HB3	1.99	0.45
6:IG:33:ARG:HB3	6:IG:37:ARG:HB3	1.99	0.45
2:AI:108:VAL:HG22	2:AI:111:ALA:HB2	1.98	0.45
5:DI:74:TYR:HE1	4:GI:90:TYR:CZ	2.34	0.45
5:FI:75:THR:HB	5:FI:78:ARG:H	1.81	0.45
4:GI:2:LYS:HE3	4:II:17:ARG:NH2	2.31	0.45
7:TI:3:ASP:OD1	7:TI:6:SER:OG	2.30	0.45
7:kI:56:VAL:CG1	7:kI:79:MET:HE1	2.46	0.45
29:AJ:203:PEB:ND	7:DJ:35:ASN:OD1	2.48	0.45
6:MJ:21:ASN:HA	6:MJ:24:LEU:HD12	1.98	0.45
7:PJ:5:PHE:HA	7:PJ:27:LEU:HD21	1.98	0.45
6:WJ:21:ASN:HA	6:WJ:24:LEU:HD12	1.98	0.45
7:dJ:97:LEU:HD13	7:dJ:165:VAL:HB	1.97	0.45
6:mJ:11:ALA:CA	16:xJ:195:TYR:CD2	3.00	0.45
6:mJ:98:VAL:CG2	7:nJ:24:LEU:HD21	2.39	0.45
6:mJ:108:TRP:HH2	7:nJ:10:VAL:HG22	1.81	0.45
3:BK:170:ARG:NH2	5:NK:120:LEU:O	2.49	0.45
7:PK:124:THR:O	7:PK:127:SER:OG	2.23	0.45
7:iK:173:GLY:O	7:iK:177:SER:OG	2.32	0.45
6:EL:21:ASN:HA	6:EL:24:LEU:HD12	1.98	0.45
7:FL:22:SER:O	7:FL:25:GLN:OE1	2.35	0.45
6:KL:21:ASN:HA	6:KL:24:LEU:HD12	1.98	0.45
7:rL:107:ASP:O	16:xL:125:ARG:NH1	2.49	0.45
29:sL:203:PEB:ND	7:vL:35:ASN:OD1	2.48	0.45
7:HM:36:LYS:HE3	7:HM:36:LYS:HB3	1.63	0.45
7:LM:141:PHE:HZ	29:LM:203:PEB:HMA3	1.81	0.45
7:ZM:10:VAL:O	7:ZM:10:VAL:HG12	2.16	0.45
7:iM:141:PHE:HZ	29:iM:203:PEB:HMA3	1.81	0.45
6:AN:128:VAL:HG12	6:AN:163:LEU:HD12	1.97	0.45
6:EN:33:ARG:HH21	6:EN:151:GLU:CD	2.25	0.45
6:EN:33:ARG:NH1	6:EN:147:GLN:HB3	2.31	0.45
7:FN:158:CYS:HB3	29:FN:202:PEB:HBA1	1.57	0.45
14:MN:248:ARG:O	14:MN:332:ARG:NH2	2.48	0.45
7:MO:91:ARG:NH2	9:OO:314:ALA:HB3	2.31	0.45
20:CP:16:ARG:HH11	20:CP:16:ARG:HG3	1.80	0.45
20:EP:49:ARG:HH21	20:EP:140:LEU:HD22	1.81	0.45
20:EP:102:THR:HB	20:EP:103:PRO:HD3	1.97	0.45
21:IP:31:PHE:CD1	20:JP:30:VAL:HG12	2.45	0.45
21:MP:58:LYS:HB3	21:MP:58:LYS:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:NP:49:ARG:HH21	20:NP:140:LEU:HD22	1.81	0.45
21:QP:52:ILE:HD11	21:QP:86:ASP:HA	1.98	0.45
20:RP:38:ARG:O	20:RP:41:GLN:HB3	2.15	0.45
25:YP:132:PHE:CZ	25:YP:193:VAL:HG21	2.51	0.45
25:YP:332:PRO:HG2	25:YP:333:TYR:CE2	2.50	0.45
21:dP:83:ARG:NH1	25:1P:487:ILE:HA	2.27	0.45
20:eP:16:ARG:HG3	20:eP:16:ARG:HH11	1.81	0.45
21:kP:58:LYS:HB3	21:kP:58:LYS:HE2	1.81	0.45
21:nP:18:TYR:OH	22:xP:89:LEU:HB3	2.16	0.45
20:rP:38:ARG:O	20:rP:41:GLN:HB3	2.15	0.45
25:1P:246:GLY:C	25:1P:247:LEU:HD22	2.41	0.45
6:AQ:125:SER:HB3	6:KQ:121:ASN:HB3	1.99	0.45
6:GQ:131:ILE:O	6:GQ:134:THR:OG1	2.32	0.45
7:LQ:133:ILE:HA	29:LQ:202:PEB:O1C	2.13	0.45
8:eR:221:ASN:ND2	7:TR:113:LEU:HD13	2.31	0.45
6:OR:115:GLU:N	6:OR:115:GLU:OE1	2.30	0.45
3:B1:102:ASN:HB3	5:J1:111:ASN:HD22	1.82	0.45
4:C1:161:LEU:HD23	4:C1:161:LEU:HA	1.87	0.45
5:H1:151:GLY:HA2	11:D8:219:TYR:HD1	1.33	0.45
5:J1:20:SER:CB	15:bB:334:GLY:H	2.28	0.45
6:f1:25:GLU:O	6:h1:29:GLY:HA3	2.17	0.45
6:O2:62:LYS:HG2	6:O2:63:TYR:CE1	2.52	0.45
6:S2:137:ARG:HG2	29:S2:202:PEB:CHC	2.47	0.45
6:A3:17:ARG:HH22	6:C3:102:THR:HG21	1.82	0.45
7:J3:177:SER:O	5:NI:63:GLN:HG2	2.16	0.45
7:M3:50:CYS:HB3	29:M3:203:PEB:H3A1	1.80	0.45
10:d4:154:GLU:O	10:d4:158:HIS:ND1	2.46	0.45
10:d4:235:LYS:HE3	10:d4:235:LYS:HB2	1.70	0.45
6:D4:89:TYR:C	6:D4:90:MET:HE3	2.42	0.45
7:E4:39:ASP:OD1	29:E4:202:PEB:C1D	2.62	0.45
7:E4:75:THR:HA	29:L4:201:PEB:CBD	2.46	0.45
7:G4:24:LEU:HB3	7:G4:28:LYS:NZ	2.31	0.45
7:G4:123:PRO:O	7:G4:126:SER:OG	2.35	0.45
6:J4:59:CYS:SG	6:J4:60:PHE:N	2.89	0.45
6:J4:133:TYR:O	6:J4:137:ARG:HG3	2.14	0.45
7:K4:24:LEU:HB3	7:K4:28:LYS:NZ	2.31	0.45
7:K4:83:LEU:HD23	7:K4:83:LEU:HA	1.76	0.45
6:L4:9:VAL:HB	7:M4:95:TYR:CD1	2.52	0.45
6:L4:59:CYS:SG	6:L4:60:PHE:N	2.89	0.45
12:E5:162:ASN:ND2	29:kI:203:PEB:CGB	2.79	0.45
1:X7:215:HIS:HB3	1:X7:240:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X7:284:VAL:HG13	5:F7:112:GLY:HA3	1.97	0.45
1:X7:293:ASN:O	1:X7:340:PHE:N	2.39	0.45
2:A7:238:ARG:NH2	7:c7:108:ARG:O	2.45	0.45
3:B7:34:THR:HG23	3:B7:80:ILE:HD11	1.97	0.45
5:F7:165:ASP:HB3	12:E8:38:LEU:HD12	1.97	0.45
5:J7:77:ARG:CZ	31:J7:1001:CYC:O2A	2.64	0.45
5:J7:145:THR:OG1	5:J7:146:THR:N	2.50	0.45
7:k7:145:THR:HG21	7:G8:148:GLU:O	2.16	0.45
7:I8:7:ARG:NE	28:4P:138:LEU:HD23	2.31	0.45
7:m9:92:TYR:HB3	7:m9:105:LEU:HD13	1.97	0.45
7:FA:37:ARG:NH2	7:FA:164:GLU:OE1	2.38	0.45
7:FA:106:GLU:HA	7:FA:110:LEU:HD12	1.99	0.45
29:FA:201:PEB:O2C	14:MA:174:ARG:NH2	2.47	0.45
6:IA:59:CYS:O	6:IA:63:TYR:N	2.46	0.45
17:BB:114:GLY:O	6:OB:16:GLY:HA3	2.17	0.45
7:JB:59:MET:HE2	7:JB:59:MET:HB3	1.88	0.45
7:eB:97:LEU:HD13	7:eB:165:VAL:HB	1.98	0.45
7:mB:10:VAL:O	7:mB:10:VAL:HG12	2.15	0.45
6:CC:4:VAL:HG11	6:CC:30:ASN:HD21	1.81	0.45
7:FC:115:GLU:HA	7:FC:118:ILE:HG12	1.97	0.45
6:IC:6:THR:HA	7:JC:1:MET:HE2	1.98	0.45
6:BD:48:HIS:CD2	7:CD:18:TYR:CE2	3.05	0.45
6:BD:161:ASN:OD1	6:BD:161:ASN:N	2.48	0.45
7:CD:102:ALA:HB1	7:CD:105:LEU:HB2	1.99	0.45
7:CD:151:MET:HA	7:CD:151:MET:HE2	1.99	0.45
6:DD:54:GLU:CD	6:DD:137:ARG:HD2	2.41	0.45
7:GD:58:GLY:N	29:GD:203:PEB:HMD2	2.30	0.45
6:HD:81:LYS:HE2	6:HD:84:ARG:CZ	2.47	0.45
6:HD:137:ARG:NH1	29:HD:202:PEB:CGB	2.80	0.45
7:KD:165:VAL:HA	7:KD:168:TYR:CD2	2.40	0.45
29:KD:202:PEB:HBA3	29:KD:202:PEB:HHA1	1.96	0.45
7:MD:137:GLN:H	7:MD:137:GLN:HG2	1.51	0.45
6:AE:164:SER:HA	6:KE:118:ARG:HG2	1.97	0.45
18:ME:314:LYS:O	18:ME:316:TYR:CD2	2.70	0.45
1:XF:157:ASP:OD1	1:XF:157:ASP:N	2.47	0.45
3:BF:58:HIS:HE1	31:JF:1001:CYC:C4A	2.29	0.45
3:BF:222:LEU:HD12	3:BF:225:VAL:HG11	1.98	0.45
5:LF:72:MEN:HE21	27:3P:114:PRO:HD2	1.98	0.45
4:MF:109:GLU:O	4:MF:109:GLU:HG2	2.16	0.45
6:AG:17:ARG:HH21	6:AG:20:SER:HB3	1.82	0.45
7:BG:55:ALA:HA	7:BG:133:ILE:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:141:PHE:CZ	29:BG:203:PEB:H3A1	2.43	0.45
7:DG:128:ILE:HA	7:DG:131:VAL:HG12	1.97	0.45
7:FG:128:ILE:HA	7:FG:131:VAL:HG12	1.97	0.45
7:HG:128:ILE:HA	7:HG:131:VAL:HG12	1.97	0.45
6:IG:16:GLY:O	14:MG:264:VAL:O	2.35	0.45
6:KG:17:ARG:HH21	6:KG:20:SER:HB3	1.82	0.45
13:kH:211:PRO:HB2	13:kH:212:PRO:CD	2.46	0.45
5:DI:37:ARG:NH1	5:DI:97:MET:O	2.47	0.45
5:JI:75:THR:HG1	5:JI:78:ARG:H	1.58	0.45
5:NI:74:TYR:C	5:NI:75:THR:HG23	2.40	0.45
5:NI:150:ILE:O	5:NI:150:ILE:CG2	2.64	0.45
7:mI:146:ALA:O	7:mI:150:LYS:NZ	2.42	0.45
7:LJ:124:THR:O	7:LJ:127:SER:OG	2.26	0.45
7:fJ:35:ASN:OD1	29:fJ:202:PEB:ND	2.48	0.45
6:gJ:33:ARG:NE	6:iJ:25:GLU:HG2	2.31	0.45
6:oJ:21:ASN:HA	6:oJ:24:LEU:HD12	1.98	0.45
6:qJ:94:ASN:HD22	7:rJ:18:TYR:HB3	1.82	0.45
19:zJ:332:LEU:HD22	20:pP:63:PRO:O	2.08	0.45
1:XK:98:PHE:HB3	1:XK:101:ALA:HB3	1.99	0.45
1:XK:124:THR:HA	1:XK:128:PHE:HB3	1.99	0.45
4:GK:139:SER:O	4:GK:139:SER:OG	2.35	0.45
4:MK:93:ARG:CD	5:NK:18:PHE:CD1	2.99	0.45
6:AL:144:MET:HB2	6:AL:148:ALA:HB3	1.98	0.45
7:BL:1:MET:HE3	7:BL:1:MET:HB2	1.80	0.45
6:IL:21:ASN:HA	6:IL:24:LEU:HD12	1.98	0.45
6:WL:139:CYS:HB3	29:WL:203:PEB:H3A1	1.72	0.45
6:iL:139:CYS:HB3	29:iL:202:PEB:H3A1	1.72	0.45
6:qL:98:VAL:HG21	7:rL:19:VAL:CG2	2.47	0.45
7:tL:1:MET:HE3	7:tL:1:MET:HB2	1.80	0.45
19:zL:142:LYS:O	19:zL:147:GLU:N	2.34	0.45
17:BM:154:LEU:HD11	17:BM:167:ILE:HD11	1.99	0.45
7:NM:10:VAL:O	7:NM:10:VAL:HG12	2.16	0.45
7:PM:97:LEU:HD13	7:PM:165:VAL:HB	1.98	0.45
6:CN:96:CYS:SG	6:CN:105:LEU:N	2.90	0.45
7:FN:106:GLU:HA	7:FN:110:LEU:HD12	1.99	0.45
6:AO:42:GLU:OE2	7:BO:24:LEU:HD13	2.15	0.45
6:CO:40:ALA:HB2	6:CO:148:ALA:HB1	1.99	0.45
20:AP:38:ARG:O	20:AP:41:GLN:HB3	2.15	0.45
20:GP:102:THR:HB	20:GP:103:PRO:HD3	1.97	0.45
25:YP:171:LEU:HD13	25:YP:223:VAL:HG23	1.97	0.45
25:YP:246:GLY:C	25:YP:247:LEU:HD22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YP:735:ILE:HD13	25:YP:744:ILE:HD11	1.98	0.45
26:ZP:139:LEU:HD23	26:ZP:139:LEU:HA	1.71	0.45
21:dP:90:ARG:NH2	20:eP:15:ALA:CA	2.76	0.45
6:AQ:33:ARG:HB3	6:AQ:37:ARG:HB3	1.99	0.45
7:BQ:117:TYR:O	7:BQ:122:VAL:N	2.44	0.45
29:BQ:201:PEB:O1B	14:MQ:197:TYR:CD1	2.69	0.45
6:CQ:42:GLU:HA	6:CQ:45:ALA:HB3	1.99	0.45
6:GQ:33:ARG:HB3	6:GQ:37:ARG:HB3	1.99	0.45
7:HQ:133:ILE:HG12	29:HQ:203:PEB:HMC1	1.99	0.45
6:IQ:33:ARG:HB3	6:IQ:37:ARG:HB3	1.99	0.45
6:KQ:33:ARG:HB3	6:KQ:37:ARG:HB3	1.99	0.45
14:MQ:102:LYS:HG3	14:MQ:104:SER:C	2.42	0.45
7:PR:3:ASP:H	7:PR:6:SER:HG	1.61	0.45
6:UR:62:LYS:HG2	6:UR:63:TYR:CE1	2.51	0.45
3:B1:224:MET:O	3:B1:228:MET:HE2	2.16	0.45
5:L1:36:GLN:HE22	29:L1:1002:PEB:HMB1	1.80	0.45
6:O2:105:LEU:HD23	6:O2:158:TYR:HD2	1.78	0.45
6:U2:62:LYS:HG2	6:U2:63:TYR:CE1	2.52	0.45
29:V2:202:PEB:HMD3	29:V2:202:PEB:HHC1	1.77	0.45
6:A3:40:ALA:HB2	6:A3:148:ALA:HB1	1.99	0.45
6:G3:40:ALA:HB2	6:G3:148:ALA:HB1	1.99	0.45
7:L3:164:GLU:HA	7:K5:79:MET:CE	2.46	0.45
7:N3:77:ARG:NH1	9:O3:361:PRO:HD3	2.31	0.45
10:d4:200:THR:HG22	10:d4:202:GLU:H	1.80	0.45
10:d4:289:LEU:HD12	10:d4:289:LEU:O	2.16	0.45
6:J4:27:ILE:H	6:J4:27:ILE:HG13	1.18	0.45
6:J4:84:ARG:HG2	6:J4:85:ASP:N	2.26	0.45
7:I5:15:LYS:O	7:I5:19:VAL:CB	2.64	0.45
7:I5:40:ALA:HA	7:I5:142:ILE:HD11	1.97	0.45
7:K5:142:ILE:CG2	7:K5:162:ALA:CB	2.95	0.45
3:B7:94:ARG:HE	3:B7:94:ARG:HB2	1.57	0.45
6:S7:33:ARG:HH21	29:V7:202:PEB:HAD1	1.82	0.45
7:V7:54:ASP:OD2	7:V7:137:GLN:NE2	2.50	0.45
6:h7:22:SER:O	6:h7:26:SER:OG	2.35	0.45
7:B8:72:MEN:HE23	29:B8:201:PEB:HMB2	1.98	0.45
7:G8:57:SER:HB3	12:E8:251:LEU:HD11	1.98	0.45
1:X9:64:ARG:O	2:A9:55:ARG:NH1	2.47	0.45
1:X9:70:ALA:HA	1:X9:78:TYR:HE2	1.81	0.45
5:D9:33:GLU:O	5:D9:35:ASN:N	2.50	0.45
4:E9:22:THR:HG23	4:K9:4:PRO:HG3	1.99	0.45
5:L9:145:THR:OG1	5:L9:146:THR:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U9:53:LYS:HA	6:U9:53:LYS:HD3	1.71	0.45
7:V9:54:ASP:OD2	7:V9:137:GLN:NE2	2.50	0.45
7:FA:158:CYS:HB3	29:FA:202:PEB:HBA1	1.57	0.45
29:FA:201:PEB:CBC	14:MA:174:ARG:HH11	1.79	0.45
6:KA:99:VAL:HG12	7:LA:9:VAL:HG21	1.99	0.45
7:LA:176:ILE:O	7:LA:176:ILE:CG2	2.64	0.45
15:bB:384:LEU:HD23	7:FB:125:ASN:ND2	2.23	0.45
7:FB:10:VAL:O	7:FB:10:VAL:HG12	2.15	0.45
7:VB:141:PHE:HZ	29:VB:203:PEB:HMA3	1.81	0.45
7:XB:141:PHE:HZ	29:XB:202:PEB:HMA3	1.81	0.45
6:fB:9:VAL:O	6:fB:9:VAL:HG12	2.14	0.45
7:kB:141:PHE:HZ	29:kB:203:PEB:HMA3	1.81	0.45
7:HC:123:PRO:O	7:HC:126:SER:OG	2.35	0.45
7:JC:75:THR:HG22	7:JC:77:ARG:H	1.82	0.45
7:JC:134:MET:SD	7:JC:137:GLN:NE2	2.89	0.45
6:KC:16:GLY:HA3	18:MC:70:LYS:HZ2	1.80	0.45
6:KC:144:MET:HE3	6:KC:144:MET:HB3	1.66	0.45
7:LC:75:THR:HG22	7:LC:77:ARG:H	1.82	0.45
18:MC:62:GLY:N	18:MC:65:LYS:HD3	2.31	0.45
10:dD:208:VAL:HG11	10:dD:263:VAL:HG13	1.99	0.45
6:BD:59:CYS:SG	6:BD:60:PHE:N	2.89	0.45
6:DD:55:ALA:O	6:DD:58:ALA:N	2.45	0.45
7:ED:102:ALA:HB1	7:ED:105:LEU:HB2	1.99	0.45
6:FD:25:GLU:OE2	6:HD:29:GLY:O	2.34	0.45
6:HD:59:CYS:SG	6:HD:60:PHE:N	2.89	0.45
6:HD:84:ARG:HG2	6:HD:85:ASP:N	2.26	0.45
6:JD:16:GLY:HA2	7:KD:91:ARG:HH12	1.82	0.45
7:MD:136:ALA:HB3	29:MD:203:PEB:CBC	2.47	0.45
7:JE:75:THR:HG22	7:JE:77:ARG:H	1.82	0.45
1:XF:108:SER:HB2	7:aF:84:ARG:HH12	1.81	0.45
3:BF:209:GLN:HA	27:3P:69:ARG:HA	1.99	0.45
4:IF:33:ARG:HA	4:IF:33:ARG:HD2	1.73	0.45
6:dF:142:ARG:HH22	29:dF:203:PEB:HNA	1.65	0.45
7:gF:139:VAL:HG13	7:gF:162:ALA:HB1	1.97	0.45
7:FG:58:GLY:O	29:FG:203:PEB:CBD	2.65	0.45
7:LG:135:LYS:NZ	7:LG:166:ALA:O	2.50	0.45
13:kH:138:ASN:O	13:kH:139:LEU:HB2	2.16	0.45
3:BI:169:GLN:HG3	5:LI:78:ARG:NH1	2.31	0.45
3:BI:224:MET:CE	5:JI:153:CYS:N	2.76	0.45
5:JI:74:TYR:C	5:JI:75:THR:HG23	2.40	0.45
6:II:142:ARG:HH22	29:II:202:PEB:HNA	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:KJ:202:PEB:O2B	29:KQ:202:PEB:OA	2.35	0.45
6:UJ:33:ARG:HH21	6:WJ:24:LEU:C	2.24	0.45
7:XJ:35:ASN:OD1	29:XJ:202:PEB:ND	2.48	0.45
6:iJ:85:ASP:OD2	6:iJ:127:TYR:OH	2.30	0.45
7:nJ:108:ARG:HA	16:xJ:197:LEU:HD22	1.96	0.45
6:oJ:139:CYS:HB3	29:oJ:202:PEB:H3A1	1.72	0.45
7:pJ:84:ARG:NH2	7:pJ:85:ASP:OD1	2.50	0.45
1:XK:212:THR:HG21	7:TK:84:ARG:HH12	1.81	0.45
5:JK:8:VAL:HA	5:JK:11:GLN:OE1	2.17	0.45
6:WK:88:HIS:CD2	6:WK:91:ARG:HH21	2.33	0.45
6:CL:72:ALA:CB	29:CL:201:PEB:CMA	2.95	0.45
7:LL:7:ARG:NH1	28:bP:225:ARG:HD2	2.32	0.45
6:QL:21:ASN:HA	6:QL:24:LEU:HD12	1.98	0.45
7:RL:35:ASN:OD1	29:RL:202:PEB:ND	2.48	0.45
6:gL:21:ASN:HA	6:gL:24:LEU:HD12	1.98	0.45
6:kL:17:ARG:NH2	6:mL:102:THR:OG1	2.50	0.45
7:nL:35:ASN:OD1	29:nL:202:PEB:ND	2.48	0.45
6:oL:19:PRO:HG3	7:pL:95:TYR:CD1	2.52	0.45
19:zL:339:VAL:HG12	20:RP:63:PRO:HB2	1.98	0.45
7:JM:10:VAL:O	7:JM:10:VAL:HG12	2.16	0.45
7:JM:149:ARG:HD3	7:JM:149:ARG:O	2.17	0.45
7:ZM:97:LEU:HD13	7:ZM:165:VAL:HB	1.98	0.45
7:iM:97:LEU:HD13	7:iM:165:VAL:HB	1.98	0.45
7:kM:141:PHE:HZ	29:kM:203:PEB:HMA3	1.81	0.45
6:AN:13:ASP:HA	7:BN:91:ARG:NH1	2.31	0.45
6:AN:54:GLU:HG3	6:AN:133:TYR:HE2	1.82	0.45
6:CN:81:LYS:HE2	6:CN:84:ARG:HH21	1.82	0.45
7:DN:133:ILE:HG23	29:DN:203:PEB:HBC1	1.97	0.45
7:FN:130:ALA:HA	7:FN:133:ILE:HD12	1.98	0.45
6:IN:81:LYS:HE2	6:IN:84:ARG:HH21	1.82	0.45
6:AO:34:SER:HA	6:AO:37:ARG:HG2	1.98	0.45
21:BP:65:ILE:O	21:BP:70:GLY:HA3	2.15	0.45
21:BP:128:GLN:HE22	23:WP:73:ALA:N	2.15	0.45
21:HP:65:ILE:O	21:HP:70:GLY:HA3	2.17	0.45
20:JP:49:ARG:HH21	20:JP:140:LEU:HD22	1.81	0.45
21:SP:10:ASN:HD21	27:3P:38:TYR:HA	1.81	0.45
20:TP:16:ARG:HA	26:ZP:148:ARG:HD3	1.98	0.45
20:eP:15:ALA:CB	25:1P:492:GLY:HA2	2.44	0.45
20:IP:16:ARG:HG3	20:IP:16:ARG:HH11	1.80	0.45
20:rP:31:LEU:O	26:2P:116:ALA:HA	2.16	0.45
22:xP:57:LYS:HD3	22:xP:135:GLU:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BQ:128:ILE:HA	7:BQ:131:VAL:HG12	1.97	0.45
6:OR:142:ARG:NH2	29:OR:202:PEB:C4B	2.75	0.45
6:W1:56:GLY:HA3	6:W1:83:TYR:CE2	2.52	0.45
7:m1:97:LEU:CD1	7:m1:165:VAL:HG23	2.40	0.45
8:e2:125:ARG:O	8:e2:128:ARG:NE	2.49	0.45
8:e2:230:LEU:HD21	8:e2:247:LEU:HD11	1.98	0.45
8:e2:280:SER:HA	6:W7:136:ASP:CG	2.42	0.45
6:Q2:60:PHE:CD1	6:Q2:67:LYS:HE3	2.51	0.45
6:I3:26:SER:HB2	6:K3:26:SER:HB2	1.98	0.45
6:I3:34:SER:HA	6:I3:37:ARG:HG2	1.98	0.45
6:K3:34:SER:HA	6:K3:37:ARG:HG2	1.97	0.45
7:L3:37:ARG:NH1	7:L3:97:LEU:O	2.46	0.45
10:d4:93:ARG:C	10:d4:95:SER:N	2.73	0.45
6:B4:48:HIS:CD2	7:C4:18:TYR:CE2	3.05	0.45
6:B4:55:ALA:O	6:B4:58:ALA:N	2.45	0.45
7:C4:113:LEU:HD12	7:C4:116:THR:OG1	2.17	0.45
7:C4:136:ALA:HB3	29:C4:203:PEB:HBC2	1.98	0.45
6:D4:81:LYS:HZ1	29:D4:201:PEB:CHB	2.29	0.45
7:E4:135:LYS:NZ	7:E4:169:PHE:HB2	2.30	0.45
29:E4:202:PEB:HHC1	29:E4:202:PEB:HMD3	1.59	0.45
6:F4:25:GLU:OE2	6:H4:29:GLY:O	2.34	0.45
6:F4:34:SER:HB2	6:F4:37:ARG:HH21	1.81	0.45
7:G4:7:ARG:HE	7:G4:7:ARG:CA	2.26	0.45
7:G4:75:THR:OG1	29:J4:201:PEB:CBD	2.40	0.45
7:G4:148:GLU:OE2	29:G4:203:PEB:C1A	2.65	0.45
7:K4:135:LYS:NZ	7:K4:169:PHE:HB2	2.30	0.45
7:I5:28:LYS:CD	19:zL:291:ILE:HG12	2.46	0.45
7:I5:78:ARG:HG2	29:I5:201:PEB:HMB1	1.97	0.45
7:I5:108:ARG:HD3	7:I5:108:ARG:HA	1.72	0.45
13:k6:75:ARG:HD2	13:k6:75:ARG:HA	1.73	0.45
13:k6:97:LEU:HD12	13:k6:113:TYR:CD2	2.52	0.45
1:X7:323:ALA:O	1:X7:325:LYS:CE	2.64	0.45
3:B7:208:PRO:HG3	21:QP:58:LYS:O	2.17	0.45
5:F7:74:TYR:CG	5:F7:74:TYR:O	2.69	0.45
6:U7:28:GLN:HB2	29:V7:202:PEB:HBD2	1.99	0.45
7:m7:54:ASP:OD2	7:m7:137:GLN:NE2	2.50	0.45
7:B8:91:ARG:HH21	18:ME:293:MET:HB2	1.25	0.45
7:F8:72:MEN:HE23	29:F8:201:PEB:HMB2	1.98	0.45
7:K8:142:ILE:CG2	7:K8:162:ALA:CB	2.95	0.45
3:B9:188:PHE:CZ	5:L9:111:ASN:ND2	2.85	0.45
4:I9:97:TYR:O	4:I9:101:VAL:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R9:54:ASP:OD2	7:R9:137:GLN:NE2	2.50	0.45
6:Z9:22:SER:O	6:Z9:26:SER:OG	2.35	0.45
6:f9:22:SER:O	6:f9:26:SER:OG	2.35	0.45
6:j9:22:SER:O	6:j9:26:SER:OG	2.35	0.45
6:AA:13:ASP:HA	7:BA:91:ARG:NH1	2.31	0.45
7:DA:67:ILE:HG12	29:KA:201:PEB:O1C	2.16	0.45
29:DA:201:PEB:HMC2	14:MA:280:PHE:CB	2.45	0.45
7:HA:65:GLY:O	7:HA:68:SER:OG	2.35	0.45
6:KA:81:LYS:HE2	6:KA:84:ARG:HH21	1.82	0.45
7:LA:133:ILE:HG23	29:LA:203:PEB:HBC1	1.97	0.45
15:bB:238:ARG:HH11	15:bB:240:MET:HE1	1.80	0.45
17:BB:154:LEU:HD11	17:BB:167:ILE:HD11	1.99	0.45
6:KB:13:ASP:OD2	7:LB:108:ARG:NH1	2.50	0.45
7:LB:10:VAL:O	7:LB:10:VAL:HG12	2.15	0.45
7:PB:10:VAL:O	7:PB:10:VAL:HG12	2.16	0.45
7:RB:10:VAL:HG12	7:RB:10:VAL:O	2.16	0.45
6:AC:99:VAL:HG13	7:BC:9:VAL:HG21	1.98	0.45
6:AC:157:ASP:OD1	6:AC:160:ILE:HD12	2.17	0.45
6:CC:157:ASP:OD1	6:CC:160:ILE:HD12	2.17	0.45
18:MC:53:ARG:HH21	18:MC:57:MET:HG2	1.82	0.45
10:dD:200:THR:HG22	10:dD:202:GLU:H	1.80	0.45
10:dD:336:LYS:O	10:dD:339:LEU:HG	2.16	0.45
7:CD:7:ARG:HE	7:CD:7:ARG:CA	2.26	0.45
6:DD:117:TYR:O	6:DD:121:ASN:N	2.49	0.45
7:ED:24:LEU:HB3	7:ED:28:LYS:NZ	2.31	0.45
7:ED:75:THR:HA	29:LD:201:PEB:CBD	2.46	0.45
6:FD:89:TYR:C	6:FD:90:MET:HE3	2.42	0.45
7:GD:58:GLY:O	29:GD:203:PEB:CBD	2.64	0.45
7:GD:74:TYR:CD2	7:GD:75:THR:HG23	2.52	0.45
7:GD:113:LEU:HD12	7:GD:116:THR:OG1	2.17	0.45
7:ID:114:LYS:HG3	7:ID:176:ILE:O	2.16	0.45
7:MD:24:LEU:HD23	7:MD:27:LEU:HD13	1.99	0.45
7:MD:88:ILE:HG21	29:MD:201:PEB:HAD1	1.98	0.45
7:BE:123:PRO:O	7:BE:126:SER:OG	2.35	0.45
7:DE:75:THR:HG22	7:DE:77:ARG:H	1.82	0.45
6:EE:33:ARG:HH22	6:GE:28:GLN:NE2	2.15	0.45
6:IE:81:LYS:NZ	29:IE:201:PEB:O2C	2.41	0.45
6:IE:136:ASP:N	6:IE:136:ASP:OD1	2.42	0.45
3:BF:225:VAL:HG13	20:TP:75:GLU:O	2.08	0.45
4:GF:33:ARG:HA	4:GF:33:ARG:HD2	1.73	0.45
5:HF:14:ALA:C	7:YF:125:ASN:HD22	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JF:111:ASN:CG	27:3P:124:TRP:HZ3	2.25	0.45
6:dF:48:HIS:HA	6:dF:51:VAL:HG12	1.98	0.45
7:kF:56:VAL:HG12	7:kF:79:MET:HE1	1.97	0.45
6:AG:33:ARG:HB3	6:AG:37:ARG:HB3	1.99	0.45
7:BG:117:TYR:O	7:BG:122:VAL:N	2.44	0.45
7:BG:135:LYS:NZ	7:BG:166:ALA:O	2.50	0.45
6:CG:54:GLU:OE1	6:CG:137:ARG:NH2	2.37	0.45
6:GG:33:ARG:HB3	6:GG:37:ARG:HB3	1.99	0.45
5:LI:68:GLN:CD	27:aP:110:SER:OG	2.60	0.45
4:MI:109:GLU:O	4:MI:109:GLU:HG2	2.16	0.45
4:MI:117:GLU:OE1	4:MI:120:ARG:NH2	2.46	0.45
7:cI:115:GLU:HA	7:cI:118:ILE:HG12	1.99	0.45
6:fI:9:VAL:HG21	7:gI:1:MET:CE	2.23	0.45
7:iI:2:LEU:HD12	7:iI:2:LEU:HA	1.82	0.45
6:CJ:21:ASN:HA	6:CJ:24:LEU:HD12	1.98	0.45
6:EJ:21:ASN:HA	6:EJ:24:LEU:HD12	1.98	0.45
6:IJ:85:ASP:OD2	6:IJ:127:TYR:OH	2.30	0.45
7:JJ:84:ARG:NH2	7:JJ:85:ASP:OD1	2.50	0.45
7:NJ:114:LYS:CE	7:NJ:177:SER:N	2.68	0.45
6:QJ:21:ASN:HA	6:QJ:24:LEU:HD12	1.98	0.45
6:SJ:71:GLU:HB3	6:SJ:72:ALA:H	1.62	0.45
7:VJ:155:ALA:CB	7:NO:66:LEU:HD13	2.35	0.45
7:IJ:108:ARG:CG	16:xJ:183:LYS:NZ	2.80	0.45
7:nJ:84:ARG:NH2	7:nJ:85:ASP:OD1	2.50	0.45
16:xJ:40:VAL:CG1	16:xJ:41:ASN:HD22	2.27	0.45
4:IK:49:GLN:NE2	15:bM:337:PRO:HB3	2.29	0.45
7:eK:112:GLY:O	7:eK:116:THR:OG1	2.31	0.45
7:iK:97:LEU:CD1	7:iK:165:VAL:HG23	2.40	0.45
7:NL:97:LEU:HD13	7:NL:165:VAL:HB	1.97	0.45
7:RL:124:THR:O	7:RL:127:SER:OG	2.26	0.45
7:TL:97:LEU:HD13	7:TL:165:VAL:HB	1.97	0.45
7:VL:97:LEU:HD13	7:VL:165:VAL:HB	1.97	0.45
7:rL:97:LEU:HD13	7:rL:165:VAL:HB	1.97	0.45
16:wL:105:ARG:HH12	29:wL:303:PEB:HBB2	0.82	0.45
16:xL:165:ARG:HH12	29:xL:303:PEB:C1C	2.30	0.45
7:LM:10:VAL:O	7:LM:10:VAL:HG12	2.15	0.45
7:NM:59:MET:HE2	7:NM:59:MET:HB3	1.88	0.45
7:ZM:141:PHE:HZ	29:ZM:203:PEB:HMA3	1.81	0.45
7:cM:97:LEU:HD13	7:cM:165:VAL:HB	1.98	0.45
7:gM:84:ARG:CZ	7:gM:84:ARG:HB3	2.45	0.45
29:kM:203:PEB:HBA2	29:kM:203:PEB:H2A1	1.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AN:96:CYS:SG	6:AN:105:LEU:N	2.90	0.45
6:CN:59:CYS:O	6:CN:63:TYR:N	2.46	0.45
6:CN:128:VAL:HG12	6:CN:163:LEU:HD12	1.97	0.45
7:DN:20:GLY:O	7:DN:24:LEU:CB	2.65	0.45
7:DN:67:ILE:HG12	29:KN:201:PEB:O1C	2.16	0.45
7:DN:106:GLU:HA	7:DN:110:LEU:HD12	1.99	0.45
6:EN:54:GLU:HG3	6:EN:133:TYR:HE2	1.82	0.45
7:FN:113:LEU:HD11	7:FN:176:ILE:HA	1.99	0.45
7:HN:106:GLU:HA	7:HN:110:LEU:HD12	1.99	0.45
6:IN:32:GLN:NE2	6:IN:32:GLN:N	2.60	0.45
7:LN:78:ARG:HD3	29:LN:201:PEB:HMB1	1.96	0.45
7:LN:176:ILE:O	7:LN:176:ILE:CG2	2.64	0.45
14:MN:98:LEU:HB3	14:MN:99:GLY:H	1.54	0.45
6:EO:44:LEU:HD22	6:EO:152:PHE:HE1	1.81	0.45
7:FO:144:ASN:ND2	7:FO:151:MET:O	2.46	0.45
6:GO:24:LEU:HD11	29:HO:202:PEB:CAD	2.46	0.45
6:GO:138:LEU:HD11	6:GO:149:GLY:HA2	1.97	0.45
20:EP:69:GLY:HA3	20:iP:56:GLN:OE1	2.16	0.45
20:GP:49:ARG:HH21	20:GP:140:LEU:HD22	1.81	0.45
20:KP:49:ARG:HH21	20:KP:140:LEU:HD22	1.81	0.45
20:RP:49:ARG:HH21	20:RP:140:LEU:HD22	1.81	0.45
25:YP:845:LEU:HG	25:YP:845:LEU:O	2.15	0.45
20:eP:107:ILE:HD11	23:yP:173:LEU:CD1	2.47	0.45
20:iP:38:ARG:O	20:iP:41:GLN:HB3	2.15	0.45
21:sP:27:LEU:HB3	20:tP:37:LEU:HD21	1.98	0.45
20:vP:64:ASP:OD1	20:vP:64:ASP:N	2.42	0.45
25:1P:56:ILE:CG2	25:1P:216:ILE:HD11	2.46	0.45
6:GQ:114:ARG:HA	6:GQ:114:ARG:HD3	1.70	0.45
6:OR:115:GLU:N	6:OR:115:GLU:CD	2.73	0.45
6:QR:62:LYS:HG2	6:QR:63:TYR:CE1	2.52	0.45
6:SR:62:LYS:HG2	6:SR:63:TYR:CE1	2.51	0.45
6:WR:142:ARG:HD3	29:WR:202:PEB:CHA	2.19	0.45
1:X1:211:LYS:HB3	1:X1:211:LYS:HE3	1.50	0.45
5:D1:20:SER:H	5:D1:23:GLN:HE21	1.64	0.45
5:J1:145:THR:HG22	5:J1:150:ILE:CD1	2.42	0.45
5:N1:106:ASP:HA	5:N1:110:LEU:HB2	1.98	0.45
6:Z1:13:ASP:OD2	7:a1:108:ARG:NH1	2.49	0.45
7:k1:89:ILE:HD11	7:k1:134:MET:CE	2.46	0.45
6:M2:138:LEU:CD1	6:M2:144:MET:HE3	2.47	0.45
7:P2:174:ALA:CB	6:W7:76:GLN:CD	2.87	0.45
6:Q2:6:THR:HB	7:R2:1:MET:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U2:138:LEU:CD1	6:U2:152:PHE:CD2	2.99	0.45
6:W2:62:LYS:HG2	6:W2:63:TYR:CE1	2.52	0.45
7:B3:107:ASP:HA	7:B3:111:ASN:HB2	1.99	0.45
7:F3:59:MET:HE3	7:F3:59:MET:HB3	1.86	0.45
6:B4:78:LYS:HB3	29:B4:201:PEB:HMB1	1.98	0.45
7:C4:38:LEU:HA	7:C4:38:LEU:HD23	1.64	0.45
7:C4:125:ASN:O	7:C4:129:ARG:HB2	2.17	0.45
6:D4:19:PRO:HA	6:D4:23:ASP:OD2	2.17	0.45
6:F4:75:ASN:OD1	6:F4:75:ASN:C	2.60	0.45
6:H4:89:TYR:C	6:H4:90:MET:HE3	2.42	0.45
6:J4:16:GLY:HA2	7:K4:91:ARG:HH12	1.82	0.45
7:K4:7:ARG:HE	7:K4:7:ARG:CA	2.26	0.45
7:K4:165:VAL:HA	7:K4:168:TYR:CD2	2.40	0.45
7:M4:24:LEU:HD23	7:M4:27:LEU:HD13	1.99	0.45
29:M4:203:PEB:CMB	29:M4:203:PEB:HNA	2.30	0.45
7:K5:1:MET:HB2	7:K5:104:VAL:CG2	2.32	0.45
12:E5:38:LEU:HD12	5:F9:165:ASP:OD1	2.16	0.45
13:k6:119:VAL:CG2	6:S7:133:TYR:CE1	2.99	0.45
13:k6:138:ASN:O	13:k6:139:LEU:HB2	2.16	0.45
5:D7:145:THR:OG1	5:D7:146:THR:N	2.50	0.45
5:L7:33:GLU:O	5:L7:35:ASN:N	2.50	0.45
7:P7:54:ASP:OD2	7:P7:137:GLN:NE2	2.50	0.45
7:H8:148:GLU:OE2	29:H8:203:PEB:NA	2.49	0.45
7:L8:72:MEN:OD1	7:L8:72:MEN:N	2.50	0.45
12:E8:158:ASP:N	12:E8:158:ASP:OD1	2.50	0.45
31:E9:1001:CYC:HBB2	5:H9:75:THR:HA	1.94	0.45
5:F9:74:TYR:CD2	5:F9:74:TYR:O	2.70	0.45
5:N9:33:GLU:O	5:N9:35:ASN:N	2.50	0.45
7:c9:53:SER:O	7:c9:57:SER:OG	2.28	0.45
6:EA:43:LYS:HZ3	6:EA:143:ASP:HB3	1.81	0.45
6:IA:81:LYS:HE2	6:IA:84:ARG:HH21	1.82	0.45
7:JA:106:GLU:HA	7:JA:110:LEU:HD12	1.99	0.45
7:LA:130:ALA:HA	7:LA:133:ILE:HD12	1.98	0.45
15:bB:343:PHE:CZ	20:KP:63:PRO:HB2	2.52	0.45
15:bB:355:LEU:HB2	6:MB:83:TYR:CE1	2.52	0.45
16:AB:197:LEU:HD11	7:mB:108:ARG:HG2	1.99	0.45
7:DB:159:THR:O	7:DB:163[B]:SER:OG	2.32	0.45
6:GB:36:ALA:HB1	6:GB:147:GLN:HB2	1.99	0.45
6:KB:54:GLU:HG2	6:KB:133:TYR:CE2	2.30	0.45
7:NB:106:GLU:OE2	7:NB:171:ARG:NE	2.40	0.45
29:PB:202:PEB:HBA2	29:PB:202:PEB:H2A1	1.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UB:54:GLU:HG2	6:UB:133:TYR:CE2	2.31	0.45
6:aB:54:GLU:HG2	6:aB:133:TYR:CE2	2.31	0.45
7:gB:84:ARG:CG	7:gB:84:ARG:NH1	2.80	0.45
6:CC:33:ARG:O	6:CC:34:SER:C	2.60	0.45
7:JC:55:ALA:CB	7:JC:134:MET:SD	3.02	0.45
7:JC:123:PRO:O	7:JC:126:SER:OG	2.34	0.45
6:KC:92:LEU:HD11	6:KC:108:TRP:HB2	1.99	0.45
10:dD:101:SER:CB	7:CD:84:ARG:HH12	2.29	0.45
10:dD:264:LYS:O	10:dD:267:ILE:HG22	2.16	0.45
6:FD:81:LYS:CB	6:FD:84:ARG:HD2	2.32	0.45
7:GD:24:LEU:HD23	7:GD:27:LEU:HD13	1.99	0.45
7:GD:151:MET:HA	7:GD:151:MET:HE2	1.99	0.45
6:HD:78:LYS:HB3	29:HD:201:PEB:HMB1	1.98	0.45
6:HD:156:LEU:O	6:HD:160:ILE:HG13	2.17	0.45
7:ID:125:ASN:O	7:ID:129:ARG:HB2	2.17	0.45
6:JD:19:PRO:HA	6:JD:23:ASP:OD2	2.17	0.45
7:KD:24:LEU:HB3	7:KD:28:LYS:NZ	2.31	0.45
7:MD:67:ILE:O	7:MD:74:TYR:HD1	2.00	0.45
7:MD:77:ARG:NH2	7:MD:78:ARG:HG2	2.32	0.45
29:LE:201:PEB:CGB	18:ME:219:SER:CB	2.95	0.45
5:DF:75:THR:HB	5:DF:78:ARG:H	1.81	0.45
6:WF:142:ARG:HH22	29:WF:202:PEB:HNA	1.65	0.45
7:cF:6:SER:O	7:cF:10:VAL:HG13	2.17	0.45
7:iF:1:MET:HB2	7:iF:2:LEU:H	1.51	0.45
7:BG:97:LEU:HD21	7:BG:165:VAL:HA	1.99	0.45
7:HG:40:ALA:HB2	7:HG:161:LEU:HD23	1.99	0.45
6:IG:17:ARG:HH21	6:IG:20:SER:HB3	1.82	0.45
7:LG:116:THR:CG2	14:MG:233:ALA:C	2.89	0.45
2:AI:115:LYS:HD2	2:AI:115:LYS:HA	1.77	0.45
3:BI:209:GLN:HA	27:aP:69:ARG:HA	1.97	0.45
6:OI:142:ARG:HH22	29:OI:202:PEB:HNA	1.65	0.45
7:RI:6:SER:O	7:RI:10:VAL:HG13	2.17	0.45
7:TI:6:SER:O	7:TI:10:VAL:HG13	2.17	0.45
6:CJ:78:LYS:HA	6:CJ:78:LYS:HD2	1.77	0.45
7:FJ:145:THR:OG1	25:YP:514:ILE:HD13	2.16	0.45
7:HJ:34:GLY:O	7:HJ:38:LEU:HG	2.17	0.45
7:RJ:84:ARG:NH2	7:RJ:85:ASP:OD1	2.50	0.45
7:XJ:1:MET:HE3	7:XJ:104:VAL:HB	1.99	0.45
7:dJ:84:ARG:NH2	7:dJ:85:ASP:OD1	2.50	0.45
6:eJ:85:ASP:OD2	6:eJ:127:TYR:OH	2.30	0.45
6:oJ:98:VAL:HG21	7:pJ:19:VAL:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:sJ:13:ASP:OD2	7:tJ:108:ARG:NH1	2.49	0.45
29:sJ:203:PEB:ND	7:vJ:35:ASN:OD1	2.48	0.45
7:vJ:1:MET:HE3	7:vJ:104:VAL:HB	1.99	0.45
16:xJ:165:ARG:HH12	29:xJ:303:PEB:C1C	2.30	0.45
1:XK:187:ASP:HB3	1:XK:191:ASP:OD2	2.17	0.45
3:BK:81:LYS:HG3	3:BK:145:LEU:HD23	1.99	0.45
5:JK:145:THR:HG22	5:JK:150:ILE:HD13	1.97	0.45
7:kK:149:ARG:NH2	6:lK:157:ASP:OD2	2.49	0.45
6:CL:21:ASN:HA	6:CL:24:LEU:HD12	1.98	0.45
7:DL:24:LEU:O	7:DL:25:GLN:C	2.58	0.45
7:HL:34:GLY:O	7:HL:38:LEU:HG	2.17	0.45
6:IL:67:LYS:HE2	6:IL:67:LYS:HB3	1.57	0.45
7:bL:84:ARG:NH2	7:bL:85:ASP:OD1	2.50	0.45
6:gL:43:LYS:HA	6:gL:43:LYS:HD2	1.67	0.45
7:hL:84:ARG:NH2	7:hL:85:ASP:OD1	2.50	0.45
6:oL:98:VAL:HG21	7:pL:19:VAL:CG2	2.46	0.45
6:uL:162:ALA:HA	16:xL:92:LYS:NZ	2.32	0.45
7:vL:97:LEU:HD13	7:vL:165:VAL:HB	1.97	0.45
16:wL:135:CYS:HB2	29:wL:301:PEB:H3A1	1.57	0.45
16:wL:169:PRO:HB3	16:wL:174:GLU:HB2	1.99	0.45
30:yL:303:PUB:NC	30:yL:303:PUB:NB	2.64	0.45
6:GM:49:GLU:H	6:GM:49:GLU:HG2	1.58	0.45
7:JM:97:LEU:HD13	7:JM:165:VAL:HB	1.98	0.45
7:cM:10:VAL:O	7:cM:10:VAL:HG12	2.15	0.45
7:cM:59:MET:HE2	7:cM:59:MET:HB3	1.88	0.45
7:eM:141:PHE:HZ	29:eM:202:PEB:HMA3	1.81	0.45
7:gM:141:PHE:HZ	29:gM:203:PEB:HMA3	1.81	0.45
7:kM:81:ALA:O	7:kM:85:ASP:N	2.49	0.45
6:lM:53:LYS:HA	6:lM:53:LYS:HE3	1.98	0.45
7:HN:20:GLY:O	7:HN:24:LEU:CB	2.65	0.45
7:HN:65:GLY:O	7:HN:68:SER:OG	2.35	0.45
7:DO:38:LEU:HD23	29:DO:202:PEB:C4D	2.46	0.45
6:EO:54:GLU:HG3	29:EO:202:PEB:HMC2	1.97	0.45
7:JO:114:LYS:HD3	7:JO:176:ILE:HA	1.98	0.45
20:CP:102:THR:HB	20:CP:103:PRO:HD3	1.97	0.45
20:JP:102:THR:HB	20:JP:103:PRO:HD3	1.98	0.45
20:NP:102:THR:HB	20:NP:103:PRO:HD3	1.97	0.45
21:SP:6:THR:HG23	27:3P:38:TYR:CE1	2.52	0.45
28:bP:45:TYR:CZ	28:bP:53:ALA:HB2	2.52	0.45
20:eP:49:ARG:HH21	20:eP:140:LEU:HD22	1.81	0.45
21:qP:72:MET:HA	21:qP:77:ARG:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:tP:16:ARG:HG3	20:tP:16:ARG:HH11	1.80	0.45
28:4P:45:TYR:CZ	28:4P:53:ALA:HB2	2.52	0.45
6:CQ:24:LEU:HD13	7:DQ:41:VAL:HG23	1.98	0.45
7:FQ:40:ALA:HB2	7:FQ:161:LEU:HD23	1.99	0.45
6:GQ:142:ARG:HE	29:GQ:202:PEB:C4C	2.29	0.45
6:IQ:136:ASP:OD1	6:IQ:136:ASP:N	2.30	0.45
6:KQ:128:VAL:HG11	6:KQ:164:SER:HB3	1.99	0.45
8:eR:226:ARG:O	8:eR:230:LEU:HG	2.16	0.45
6:MR:43:LYS:HD2	6:MR:43:LYS:C	2.42	0.45
6:OR:62:LYS:HG2	6:OR:63:TYR:CE1	2.52	0.45
6:SR:37:ARG:CB	6:SR:151:GLU:OE1	2.47	0.45
6:WR:116:VAL:CG1	6:WR:120:LEU:HD12	2.41	0.45
5:D1:16:GLY:HA3	5:F1:69:PRO:HB2	1.98	0.45
4:K1:2:LYS:H	4:K1:105:GLY:HA3	1.82	0.45
7:T2:107:ASP:OD1	7:T2:108:ARG:N	2.49	0.45
9:O3:179:GLU:O	9:O3:182:SER:OG	2.34	0.45
6:B4:75:ASN:OD1	6:B4:75:ASN:C	2.60	0.45
6:D4:27:ILE:H	6:D4:27:ILE:HG13	1.18	0.45
6:D4:113:ALA:CA	7:I4:76:ASN:HD21	2.30	0.45
7:G4:125:ASN:O	7:G4:129:ARG:HB2	2.17	0.45
7:G4:151:MET:HE2	7:G4:151:MET:HA	1.99	0.45
7:I4:128:ILE:H	7:I4:128:ILE:HG12	1.60	0.45
7:I4:151:MET:HE2	7:I4:151:MET:HA	1.99	0.45
6:L4:156:LEU:O	6:L4:160:ILE:HG13	2.17	0.45
7:M4:113:LEU:HD12	7:M4:116:THR:OG1	2.17	0.45
29:M4:203:PEB:HBA3	29:M4:203:PEB:H2A1	1.69	0.45
12:E5:36:VAL:HG23	7:a9:167:SER:OG	2.17	0.45
13:k6:23:ALA:HB1	13:k6:26:VAL:CG2	2.45	0.45
1:X7:211:ALA:N	7:a7:111:ASN:O	2.50	0.45
3:B7:197:PHE:HB2	21:QP:50:THR:CG2	2.47	0.45
5:F7:74:TYR:O	5:F7:74:TYR:CD2	2.70	0.45
5:F7:145:THR:OG1	5:F7:146:THR:N	2.50	0.45
5:J7:33:GLU:O	5:J7:35:ASN:N	2.50	0.45
5:J7:90:LEU:O	5:J7:94:SER:OG	2.33	0.45
6:f7:33:ARG:NH2	29:i7:202:PEB:HAD1	2.30	0.45
7:H8:72:MEN:HE23	29:H8:201:PEB:HMB2	1.98	0.45
7:I8:15:LYS:O	7:I8:19:VAL:CB	2.64	0.45
4:E9:25:GLN:HG2	4:K9:33:ARG:HG2	1.99	0.45
6:O9:22:SER:O	6:O9:26:SER:OG	2.35	0.45
7:Y9:54:ASP:OD2	7:Y9:137:GLN:NE2	2.50	0.45
6:CA:81:LYS:HE2	6:CA:84:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FA:108:ARG:C	14:MA:184:ARG:NH2	2.75	0.45
6:KA:96:CYS:SG	6:KA:105:LEU:N	2.90	0.45
14:MA:272:ARG:NH1	14:MA:276:GLU:OE2	2.50	0.45
15:bB:343:PHE:CE1	20:KP:64:ASP:HB3	2.52	0.45
15:bB:407:THR:CG2	28:bP:81:VAL:HG11	2.47	0.45
6:GB:147:GLN:CD	6:GB:147:GLN:N	2.73	0.45
7:XB:97:LEU:HD13	7:XB:165:VAL:HB	1.98	0.45
7:ZB:1:MET:HE3	7:ZB:1:MET:HB2	1.89	0.45
7:iB:141:PHE:HZ	29:iB:203:PEB:HMA3	1.81	0.45
6:CC:91:ARG:NH2	7:HC:74:TYR:OH	2.50	0.45
7:LC:123:PRO:O	7:LC:126:SER:OG	2.35	0.45
6:BD:2:LYS:HD2	6:DD:17:ARG:HH12	1.81	0.45
6:BD:55:ALA:O	6:BD:58:ALA:N	2.45	0.45
6:BD:156:LEU:O	6:BD:160:ILE:HG13	2.17	0.45
7:CD:125:ASN:O	7:CD:129:ARG:HB2	2.17	0.45
6:DD:19:PRO:HA	6:DD:23:ASP:OD2	2.17	0.45
6:DD:81:LYS:HE2	6:DD:84:ARG:CZ	2.46	0.45
7:ED:107:ASP:O	7:ED:111:ASN:ND2	2.47	0.45
7:GD:171:ARG:HH11	7:GD:171:ARG:CB	2.17	0.45
7:ID:67:ILE:O	7:ID:74:TYR:HD1	2.00	0.45
7:KD:102:ALA:HB1	7:KD:105:LEU:HB2	1.99	0.45
6:LD:75:ASN:OD1	6:LD:75:ASN:C	2.60	0.45
7:MD:24:LEU:HB3	7:MD:28:LYS:NZ	2.31	0.45
7:BE:134:MET:SD	7:BE:137:GLN:NE2	2.89	0.45
6:CE:33:ARG:O	6:CE:34:SER:C	2.60	0.45
18:ME:99:MET:HE3	18:ME:99:MET:HB3	1.72	0.45
4:KF:28:ASN:ND2	29:LF:1002:PEB:OD	2.49	0.45
6:UF:87:ASP:OD1	7:VF:18:TYR:OH	2.25	0.45
6:AG:54:GLU:OE1	6:AG:137:ARG:NH2	2.37	0.45
6:CG:17:ARG:HH21	6:CG:20:SER:HB3	1.82	0.45
6:CG:91:ARG:NH1	7:HG:74:TYR:OH	2.31	0.45
6:EG:54:GLU:OE1	6:EG:137:ARG:NH2	2.37	0.45
7:FG:137:GLN:N	29:FG:203:PEB:O1C	2.50	0.45
6:GG:128:VAL:HG11	6:GG:164:SER:HB3	1.99	0.45
6:KG:42:GLU:HA	6:KG:45:ALA:HB3	1.99	0.45
13:kH:10:TYR:CD1	6:YM:53:LYS:HD3	2.52	0.45
13:kH:69:ALA:HA	13:kH:72:GLU:HG2	1.99	0.45
2:AI:121:SER:OG	7:gI:84:ARG:NH1	2.44	0.45
7:PI:115:GLU:HA	7:PI:118:ILE:HG12	1.99	0.45
6:UI:142:ARG:HH22	29:UI:203:PEB:HNA	1.65	0.45
7:VI:115:GLU:HA	7:VI:118:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:YI:115:GLU:HA	7:YI:118:ILE:HG12	1.99	0.45
7:gI:115:GLU:HA	7:gI:118:ILE:HG12	1.99	0.45
7:BJ:118:ILE:CG2	7:TJ:118:ILE:HD12	2.46	0.45
7:DJ:97:LEU:HD13	7:DJ:165:VAL:HB	1.97	0.45
7:FJ:1:MET:HE3	7:FJ:104:VAL:HB	1.99	0.45
7:JJ:28:LYS:O	7:JJ:32:ALA:N	2.43	0.45
6:KJ:75:ASN:O	6:KJ:78:LYS:HB2	2.17	0.45
7:ZJ:1:MET:HE3	7:ZJ:104:VAL:HB	1.99	0.45
7:bJ:97:LEU:HD13	7:bJ:165:VAL:HB	1.97	0.45
7:lJ:1:MET:HE3	7:lJ:104:VAL:HB	1.99	0.45
6:mJ:10:SER:HB3	16:xJ:195:TYR:O	2.16	0.45
7:nJ:97:LEU:HD13	7:nJ:165:VAL:HB	1.97	0.45
6:uJ:162:ALA:CA	16:xJ:92:LYS:HE3	2.47	0.45
19:zJ:332:LEU:HB2	20:pP:67:SER:CB	2.44	0.45
6:ZK:53:LYS:HE3	6:ZK:53:LYS:HB3	1.81	0.45
7:HL:84:ARG:NH2	7:HL:85:ASP:OD1	2.50	0.45
6:KL:47:ASN:ND2	29:KL:202:PEB:HMC1	2.32	0.45
6:WL:21:ASN:HA	6:WL:24:LEU:HD12	1.98	0.45
7:ZL:1:MET:HE3	7:ZL:104:VAL:HB	1.99	0.45
7:ZL:35:ASN:OD1	29:ZL:202:PEB:ND	2.48	0.45
6:kL:154:ALA:HB2	7:nL:42:ASN:HD21	1.82	0.45
7:rL:1:MET:HE3	7:rL:1:MET:HB2	1.80	0.45
16:wL:152:MET:HE3	16:wL:152:MET:HB2	1.79	0.45
16:wL:249:CYS:HB2	29:wL:302:PEB:H3A1	1.76	0.45
15:bM:118:ARG:NH2	15:bM:179:ASP:OD1	2.44	0.45
15:bM:335:ILE:HG13	15:bM:337:PRO:CD	2.44	0.45
29:DM:203:PEB:HBA2	29:DM:203:PEB:H2A1	1.86	0.45
6:KM:21:ASN:ND2	6:MM:155:TYR:OH	2.50	0.45
6:jM:33:ARG:NH2	6:jM:147:GLN:OE1	2.49	0.45
6:AN:81:LYS:HE2	6:AN:84:ARG:HH21	1.82	0.45
6:EN:96:CYS:SG	6:EN:105:LEU:N	2.90	0.45
14:MN:272:ARG:NH1	14:MN:276:GLU:OE2	2.50	0.45
6:EO:34:SER:HA	6:EO:37:ARG:HG2	1.97	0.45
31:CP:1001:CYC:OB	21:BP:73:TYR:O	2.35	0.45
20:EP:13:ALA:C	25:YP:509:PHE:CZ	2.95	0.45
20:JP:154:ASP:OD2	21:MP:46:ALA:HB2	2.17	0.45
20:KP:90:ARG:HD2	21:OP:17:LYS:C	2.42	0.45
20:cP:64:ASP:OD1	20:cP:64:ASP:N	2.42	0.45
21:kP:13:ASP:HB2	20:lP:94:TYR:CE2	2.52	0.45
21:kP:52:ILE:HD11	21:kP:86:ASP:HA	1.98	0.45
20:rP:23:LEU:CD2	21:wP:38:VAL:HG13	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:yP:36:LYS:O	23:yP:40:ILE:HG13	2.16	0.45
25:1P:344:ARG:HB2	25:1P:413:LEU:CD2	2.45	0.45
25:1P:583:TYR:HD2	25:1P:586:LYS:HG3	1.82	0.45
25:1P:667:LEU:O	25:1P:668:LYS:HB3	2.16	0.45
26:2P:139:LEU:HD23	26:2P:139:LEU:HA	1.71	0.45
7:BQ:97:LEU:HD21	7:BQ:165:VAL:HA	1.99	0.45
6:CQ:13:ASP:HA	7:DQ:91:ARG:NH2	2.31	0.45
7:DQ:137:GLN:CD	29:DQ:203:PEB:C1B	2.89	0.45
7:FQ:117:TYR:O	7:FQ:122:VAL:N	2.44	0.45
6:IQ:33:ARG:O	6:IQ:37:ARG:N	2.34	0.45
7:JQ:55:ALA:HA	7:JQ:133:ILE:HG21	1.97	0.45
7:LQ:40:ALA:HB2	7:LQ:161:LEU:HD23	1.99	0.45
8:eR:125:ARG:O	8:eR:128:ARG:NE	2.49	0.45
7:NR:72:MEN:O	7:NR:78:ARG:HD3	2.17	0.45
1:X1:98:PHE:HB3	1:X1:101:ALA:HB3	1.99	0.45
3:B1:81:LYS:HG3	3:B1:145:LEU:HD23	1.99	0.45
3:B1:200:ALA:O	3:B1:201:SER:CB	2.63	0.45
4:C1:142:LEU:CB	4:C1:147:ALA:HB2	2.47	0.45
5:D1:139:VAL:O	5:D1:139:VAL:HG12	2.17	0.45
4:G1:45:THR:HG23	5:H1:18:PHE:CG	2.51	0.45
5:H1:20:SER:H	5:H1:23:GLN:HE21	1.64	0.45
5:J1:77:ARG:CA	4:M1:113:ALA:O	2.64	0.45
6:j1:32:GLN:HG3	6:l1:32:GLN:HG3	1.98	0.45
6:O2:79:ILE:HD13	13:k6:245:VAL:CG1	2.46	0.45
6:U2:137:ARG:NH2	29:U2:202:PEB:C4B	2.80	0.45
7:C4:83:LEU:HA	7:C4:83:LEU:HD23	1.76	0.45
7:C4:102:ALA:HB1	7:C4:105:LEU:HB2	1.99	0.45
6:D4:54:GLU:CD	6:D4:137:ARG:HD2	2.41	0.45
6:D4:55:ALA:O	6:D4:58:ALA:N	2.45	0.45
6:D4:156:LEU:O	6:D4:160:ILE:HG13	2.17	0.45
7:E4:76:ASN:HD21	6:L4:113:ALA:HB2	1.82	0.45
7:E4:102:ALA:HB1	7:E4:105:LEU:HB2	1.99	0.45
7:G4:24:LEU:HD23	7:G4:27:LEU:HD13	1.99	0.45
6:H4:84:ARG:HG2	6:H4:85:ASP:N	2.26	0.45
6:J4:75:ASN:OD1	6:J4:75:ASN:C	2.60	0.45
6:J4:89:TYR:C	6:J4:90:MET:HE3	2.42	0.45
7:M4:67:ILE:O	7:M4:74:TYR:HD1	2.00	0.45
1:X7:126:LYS:NZ	1:X7:179:ASP:OD1	2.50	0.45
2:A7:97:GLY:HA3	6:b7:2:LYS:HD3	1.99	0.45
5:H7:145:THR:OG1	5:H7:146:THR:N	2.50	0.45
4:K7:97:TYR:O	4:K7:101:VAL:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z7:22:SER:O	6:Z7:26:SER:OG	2.35	0.45
7:i7:54:ASP:OD2	7:i7:137:GLN:NE2	2.50	0.45
7:F8:91:ARG:HB3	12:E8:141:PRO:HD2	1.99	0.45
7:I8:1:MET:CB	28:4P:118:LEU:CD2	2.92	0.45
7:L8:83:LEU:HD22	13:kH:231:ALA:CB	2.47	0.45
7:L8:116:THR:CG2	13:kH:284:LEU:CD2	2.79	0.45
2:A9:153:GLN:O	2:A9:154:HIS:C	2.57	0.45
4:K9:45:THR:HG23	5:L9:18:PHE:CB	2.47	0.45
7:T9:54:ASP:OD2	7:T9:137:GLN:NE2	2.50	0.45
7:e9:54:ASP:OD2	7:e9:137:GLN:NE2	2.50	0.45
7:i9:54:ASP:OD2	7:i9:137:GLN:NE2	2.50	0.45
7:k9:54:ASP:OD2	7:k9:137:GLN:NE2	2.50	0.45
6:CA:96:CYS:SG	6:CA:105:LEU:N	2.90	0.45
6:EA:81:LYS:HE2	6:EA:84:ARG:HH21	1.82	0.45
6:EA:96:CYS:SG	6:EA:105:LEU:N	2.90	0.45
7:LA:106:GLU:HA	7:LA:110:LEU:HD12	1.99	0.45
6:CB:50:ALA:O	6:CB:54:GLU:HG2	2.16	0.45
7:NB:1:MET:HE3	7:NB:1:MET:HB2	1.89	0.45
7:eB:10:VAL:O	7:eB:10:VAL:HG12	2.16	0.45
7:BC:75:THR:HG22	7:BC:77:ARG:H	1.82	0.45
7:BC:123:PRO:O	7:BC:126:SER:OG	2.35	0.45
29:BC:201:PEB:NB	29:BC:201:PEB:NC	2.65	0.45
7:FC:123:PRO:O	7:FC:126:SER:OG	2.35	0.45
18:MC:314:LYS:O	18:MC:316:TYR:CD2	2.70	0.45
6:BD:15:ALA:HB3	6:BD:17:ARG:HD2	1.88	0.45
7:CD:24:LEU:HD23	7:CD:27:LEU:HD13	1.99	0.45
7:ED:113:LEU:HD12	7:ED:116:THR:OG1	2.17	0.45
7:ED:125:ASN:O	7:ED:129:ARG:HB2	2.17	0.45
7:GD:50:CYS:HB3	29:GD:203:PEB:CMA	2.40	0.45
29:GD:202:PEB:CBD	6:HD:33:ARG:NE	2.80	0.45
7:ID:123:PRO:O	7:ID:126:SER:OG	2.35	0.45
7:KD:36:LYS:HZ3	29:KD:202:PEB:C2B	2.30	0.45
7:KD:88:ILE:HG21	29:KD:201:PEB:HAD1	1.98	0.45
6:LD:89:TYR:C	6:LD:90:MET:HE3	2.42	0.45
7:MD:135:LYS:NZ	7:MD:169:PHE:HB2	2.30	0.45
6:GE:92:LEU:HD11	6:GE:108:TRP:HB2	1.99	0.45
7:HE:75:THR:HG22	7:HE:77:ARG:H	1.82	0.45
18:ME:53:ARG:HH21	18:ME:57:MET:HG2	1.82	0.45
7:PF:115:GLU:HA	7:PF:118:ILE:HG12	1.99	0.45
7:VF:6:SER:O	7:VF:10:VAL:HG13	2.17	0.45
7:iF:1:MET:SD	7:iF:104:VAL:CG2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:143:THR:OG1	7:DG:145:THR:OG1	2.33	0.45
6:EG:93:VAL:O	6:EG:97:LEU:HB2	2.17	0.45
6:EG:128:VAL:HG11	6:EG:164:SER:HB3	1.99	0.45
6:GG:4:VAL:O	6:GG:7:THR:OG1	2.30	0.45
6:IG:93:VAL:O	6:IG:97:LEU:HB2	2.17	0.45
6:IG:128:VAL:HG11	6:IG:164:SER:HB3	1.99	0.45
13:kH:97:LEU:HD12	13:kH:113:TYR:CD2	2.52	0.45
1:XI:104:ALA:HB1	7:aI:84:ARG:HD2	1.99	0.45
6:QI:142:ARG:HH22	29:QI:202:PEB:HNA	1.65	0.45
6:WI:142:ARG:HH22	29:WI:202:PEB:HNA	1.65	0.45
6:dI:142:ARG:HH22	29:dI:203:PEB:HNA	1.65	0.45
7:eI:6:SER:O	7:eI:10:VAL:HG13	2.17	0.45
6:jI:18:PHE:HB3	7:kI:45:VAL:HG13	1.99	0.45
6:CJ:72:ALA:CB	29:CJ:201:PEB:CMA	2.95	0.45
7:FJ:144:ASN:ND2	7:FJ:153:PHE:CZ	2.54	0.45
7:JJ:1:MET:HE3	7:JJ:104:VAL:HB	1.99	0.45
7:RJ:35:ASN:OD1	29:RJ:202:PEB:ND	2.48	0.45
6:SJ:21:ASN:HA	6:SJ:24:LEU:HD12	1.98	0.45
7:TJ:1:MET:HE3	7:TJ:104:VAL:HB	1.99	0.45
7:nJ:77:ARG:HH11	16:xJ:99:ARG:HH22	1.62	0.45
7:pJ:1:MET:HE3	7:pJ:104:VAL:HB	1.99	0.45
7:rJ:97:LEU:HD13	7:rJ:165:VAL:HB	1.97	0.45
16:wJ:39:LEU:HD21	17:yJ:200:PHE:CE1	2.52	0.45
7:TK:3:ASP:OD1	7:TK:3:ASP:N	2.46	0.45
6:fK:25:GLU:O	6:hK:29:GLY:HA3	2.17	0.45
7:gK:97:LEU:CD1	7:gK:165:VAL:HG23	2.40	0.45
7:DL:84:ARG:NH2	7:DL:85:ASP:OD1	2.50	0.45
6:GL:21:ASN:HA	6:GL:24:LEU:HD12	1.98	0.45
7:JL:28:LYS:O	7:JL:32:ALA:N	2.43	0.45
7:NL:1:MET:HE3	7:NL:104:VAL:HB	1.99	0.45
7:PL:5:PHE:HA	7:PL:27:LEU:HD21	1.98	0.45
7:TL:1:MET:HE3	7:TL:1:MET:HB2	1.80	0.45
7:VL:129:ARG:HA	7:VL:129:ARG:HD2	1.82	0.45
7:hL:97:LEU:HD13	7:hL:165:VAL:HB	1.97	0.45
7:jL:1:MET:HE3	7:jL:104:VAL:HB	1.99	0.45
7:jL:84:ARG:NH2	7:jL:85:ASP:OD1	2.50	0.45
6:mL:13:ASP:HA	7:nL:95:TYR:OH	2.17	0.45
6:mL:21:ASN:HA	6:mL:24:LEU:HD12	1.98	0.45
6:oL:16:GLY:HA2	7:pL:91:ARG:NH1	2.32	0.45
7:pL:1:MET:HE3	7:pL:104:VAL:HB	1.99	0.45
6:qL:139:CYS:HB3	29:qL:202:PEB:H3A1	1.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:172:VAL:N	16:xL:48:MET:SD	2.90	0.45
16:xL:239:ALA:O	16:xL:243:VAL:HG23	2.17	0.45
15:bM:190:ASP:CG	17:BM:69:PHE:H	2.25	0.45
17:BM:81:ALA:HA	7:RM:115:GLU:CD	2.42	0.45
7:PM:141:PHE:HZ	29:PM:202:PEB:HMA3	1.81	0.45
7:XM:141:PHE:HZ	29:XM:202:PEB:HMA3	1.81	0.45
7:gM:97:LEU:HD13	7:gM:165:VAL:HB	1.98	0.45
6:IN:128:VAL:HG12	6:IN:163:LEU:HD12	1.97	0.45
7:JN:113:LEU:O	7:JN:116:THR:OG1	2.29	0.45
6:KN:99:VAL:HG12	7:LN:9:VAL:HG21	1.99	0.45
14:MN:164:LYS:HD3	14:MN:164:LYS:HA	1.66	0.45
30:MN:402:PUB:NB	30:MN:402:PUB:NC	2.64	0.45
6:KO:40:ALA:HB2	6:KO:148:ALA:HB1	1.99	0.45
7:LO:53:SER:O	7:LO:57:SER:OG	2.26	0.45
20:GP:13:ALA:HB1	25:YP:239:ARG:HB2	1.98	0.45
20:KP:98:ALA:HB2	21:OP:9:ILE:CD1	2.47	0.45
21:OP:66:THR:OG1	31:VP:1001:CYC:O2A	2.34	0.45
25:YP:635:PHE:CE1	25:YP:641:PRO:HA	2.52	0.45
27:aP:61:ARG:NH2	21:sP:62:TYR:HB3	2.32	0.45
27:aP:261:LYS:HA	27:aP:261:LYS:HD3	1.57	0.45
20:iP:15:ALA:HB2	25:1P:246:GLY:C	2.42	0.45
20:1P:151:PHE:CE1	21:oP:42:ALA:CB	2.94	0.45
21:nP:18:TYR:CD2	22:xP:93:THR:HG21	2.52	0.45
21:qP:96:MET:HE3	21:qP:96:MET:HB3	1.91	0.45
20:rP:49:ARG:HH21	20:rP:140:LEU:HD22	1.81	0.45
31:uP:1001:CYC:O2A	25:1P:804:ARG:HB3	2.16	0.45
25:1P:314:GLU:OE2	25:1P:317:ARG:NH1	2.48	0.45
6:AQ:93:VAL:O	6:AQ:97:LEU:HB2	2.17	0.45
7:BQ:135:LYS:NZ	7:BQ:166:ALA:O	2.50	0.45
7:DQ:141:PHE:CE1	29:DQ:203:PEB:CMA	2.98	0.45
6:IQ:4:VAL:O	6:IQ:7:THR:OG1	2.30	0.45
3:B1:224:MET:O	3:B1:227:GLU:HG2	2.17	0.45
4:E1:50:ARG:N	6:Q7:53:LYS:HZ1	2.15	0.45
6:h1:33:ARG:O	6:h1:37:ARG:HB2	2.17	0.45
7:N2:72:MEN:O	7:N2:78:ARG:HD3	2.17	0.45
7:T2:3:ASP:H	7:T2:6:SER:HG	1.61	0.45
10:d4:87:TYR:OH	29:I4:201:PEB:ND	2.50	0.45
10:d4:339:LEU:HD12	10:d4:340:ALA:N	2.32	0.45
7:C4:67:ILE:O	7:C4:74:TYR:HD1	2.00	0.45
7:C4:77:ARG:NH2	7:C4:78:ARG:HG2	2.32	0.45
7:C4:137:GLN:OE1	29:C4:203:PEB:HHA1	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:151:MET:HE2	7:C4:151:MET:HA	1.99	0.45
6:D4:75:ASN:OD1	6:D4:75:ASN:C	2.60	0.45
6:D4:81:LYS:HE2	6:D4:84:ARG:CZ	2.47	0.45
7:I4:125:ASN:O	7:I4:129:ARG:HB2	2.17	0.45
7:K4:102:ALA:HB1	7:K4:105:LEU:HB2	1.99	0.45
7:K4:125:ASN:O	7:K4:129:ARG:HB2	2.17	0.45
7:H5:72:MEN:N	7:H5:72:MEN:OD1	2.50	0.45
7:H5:91:ARG:HH12	12:E5:62:GLU:CD	2.23	0.45
13:k6:211:PRO:HB2	13:k6:212:PRO:CD	2.46	0.45
13:k6:239:ALA:O	13:k6:242:THR:HG23	2.17	0.45
13:k6:262:SER:O	13:k6:268:THR:OG1	2.29	0.45
5:N7:7:LYS:HE3	26:2P:93:THR:OG1	2.17	0.45
7:a7:54:ASP:OD2	7:a7:137:GLN:NE2	2.50	0.45
6:l7:90:MET:HA	6:l7:93:VAL:CG1	2.45	0.45
29:H8:202:PEB:CBD	12:E8:74:ARG:HB3	2.47	0.45
7:L8:72:MEN:HE23	29:L8:201:PEB:HMB2	1.98	0.45
12:E8:182:ASN:HD22	6:bF:80:ASN:ND2	1.79	0.45
4:M9:70:PRO:HB2	20:lP:49:ARG:NH1	2.31	0.45
6:W9:58:ALA:HB2	8:eR:260:LEU:HD22	1.99	0.45
6:d9:22:SER:O	6:d9:26:SER:OG	2.35	0.45
6:AA:96:CYS:SG	6:AA:105:LEU:N	2.90	0.45
7:BA:130:ALA:HA	7:BA:133:ILE:HD12	1.98	0.45
6:GA:81:LYS:HE2	6:GA:84:ARG:HH21	1.82	0.45
6:GA:96:CYS:SG	6:GA:105:LEU:N	2.90	0.45
14:MA:327:ARG:HD2	29:MA:401:PEB:HMA2	1.99	0.45
17:BB:155:ILE:HD11	17:BB:269:LEU:HG	1.99	0.45
7:DB:59:MET:HE2	7:DB:59:MET:HB3	1.89	0.45
6:KB:48:HIS:CD2	6:KB:48:HIS:O	2.70	0.45
29:cB:203:PEB:HBA2	29:cB:203:PEB:H2A1	1.86	0.45
7:mB:141:PHE:HZ	29:mB:203:PEB:HMA3	1.81	0.45
7:CD:28:LYS:HB2	7:CD:28:LYS:HE2	1.56	0.45
7:CD:131:VAL:HG21	7:CD:172:VAL:HG13	1.99	0.45
6:DD:113:ALA:CA	7:ID:76:ASN:HD21	2.30	0.45
6:FD:75:ASN:OD1	6:FD:75:ASN:C	2.60	0.45
7:GD:77:ARG:HE	7:GD:77:ARG:HB3	1.07	0.45
7:GD:88:ILE:HG21	29:GD:201:PEB:HAD1	1.98	0.45
6:JD:55:ALA:O	6:JD:58:ALA:N	2.45	0.45
7:KD:24:LEU:HD23	7:KD:27:LEU:HD13	1.99	0.45
29:KD:202:PEB:HMD3	29:KD:202:PEB:HHC1	1.60	0.45
7:MD:113:LEU:HD12	7:MD:116:THR:OG1	2.17	0.45
6:CE:157:ASP:OD1	6:CE:160:ILE:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IE:152:PHE:CZ	6:IE:156:LEU:CD2	2.79	0.45
7:JE:123:PRO:O	7:JE:126:SER:OG	2.34	0.45
4:CF:120:ARG:NH1	4:KF:116:GLU:OE2	2.48	0.45
5:DF:37:ARG:NH1	5:DF:97:MET:O	2.47	0.45
6:OF:142:ARG:HH22	29:OF:202:PEB:HNA	1.65	0.45
7:PF:139:VAL:HG13	7:PF:162:ALA:HB1	1.97	0.45
6:QF:142:ARG:HH22	29:QF:202:PEB:HNA	1.65	0.45
6:ZF:142:ARG:HH22	29:ZF:202:PEB:HNA	1.65	0.45
6:AG:93:VAL:O	6:AG:97:LEU:HB2	2.17	0.45
6:AG:150:VAL:HG12	7:DG:152:SER:O	2.17	0.45
6:GG:42:GLU:HA	6:GG:45:ALA:HB3	1.99	0.45
6:GG:105:LEU:HD23	6:GG:110:ILE:HG12	1.99	0.45
6:KG:87:ASP:OD1	7:LG:18:TYR:OH	2.19	0.45
6:KG:128:VAL:HG11	6:KG:164:SER:HB3	1.99	0.45
7:VI:6:SER:O	7:VI:10:VAL:HG13	2.17	0.45
7:YI:6:SER:O	7:YI:10:VAL:HG13	2.17	0.45
6:dI:52:VAL:HG13	6:dI:86:VAL:HG12	1.99	0.45
7:eI:115:GLU:HA	7:eI:118:ILE:HG12	1.99	0.45
7:DJ:84:ARG:NH2	7:DJ:85:ASP:OD1	2.50	0.45
7:XJ:84:ARG:NH2	7:XJ:85:ASP:OD1	2.50	0.45
7:ZJ:159:THR:O	7:ZJ:163:SER:OG	2.24	0.45
7:bJ:131:VAL:HG13	7:bJ:169:PHE:HD1	1.82	0.45
7:fJ:84:ARG:NH2	7:fJ:85:ASP:OD1	2.50	0.45
6:mJ:21:ASN:HA	6:mJ:24:LEU:HD12	1.98	0.45
7:pJ:35:ASN:OD1	29:pJ:202:PEB:ND	2.48	0.45
3:BK:214:LYS:HE3	21:fP:67:ARG:HB2	1.65	0.45
5:FK:106:ASP:HA	5:FK:110:LEU:HB2	1.98	0.45
5:HK:20:SER:H	5:HK:23:GLN:HE21	1.64	0.45
5:NK:77:ARG:HH11	5:NK:77:ARG:HD3	1.56	0.45
6:dK:52:VAL:CG1	6:dK:86:VAL:HG12	2.33	0.45
6:jK:5:ILE:HG21	7:kK:99:ALA:HA	1.98	0.45
6:jK:32:GLN:HG3	6:lK:32:GLN:HG3	1.98	0.45
6:AL:133:TYR:CD1	6:AL:133:TYR:O	2.70	0.45
6:KL:75:ASN:O	6:KL:78:LYS:HB2	2.17	0.45
7:NL:131:VAL:HG13	7:NL:169:PHE:HD1	1.82	0.45
7:RL:84:ARG:NH2	7:RL:85:ASP:OD1	2.50	0.45
7:TL:84:ARG:NH2	7:TL:85:ASP:OD1	2.50	0.45
7:bL:1:MET:HE3	7:bL:104:VAL:HB	1.99	0.45
7:fL:35:ASN:OD1	29:fL:202:PEB:ND	2.48	0.45
6:mL:95:TYR:HB3	7:nL:9:VAL:HG13	1.98	0.45
7:tL:84:ARG:NH2	7:tL:85:ASP:OD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:168:VAL:CG1	16:xL:47:ARG:NH1	2.72	0.45
16:AM:225:LYS:NZ	16:AM:233:GLU:OE2	2.39	0.45
7:DM:10:VAL:O	7:DM:10:VAL:HG12	2.15	0.45
7:NM:106:GLU:OE2	7:NM:171:ARG:NE	2.40	0.45
7:PM:10:VAL:O	7:PM:10:VAL:HG12	2.16	0.45
6:hM:85:ASP:OD2	6:hM:127:TYR:OH	2.32	0.45
7:kM:97:LEU:HD13	7:kM:165:VAL:HB	1.98	0.45
7:BN:59:MET:HE3	7:BN:59:MET:HB3	1.89	0.45
6:CN:54:GLU:HG3	6:CN:133:TYR:HE2	1.82	0.45
6:CN:149:GLY:O	6:CN:153:SER:OG	2.26	0.45
7:DN:147:THR:OG1	29:DN:203:PEB:OA	2.27	0.45
6:GN:96:CYS:SG	6:GN:105:LEU:N	2.90	0.45
6:KN:39:GLU:CD	6:KN:39:GLU:C	2.85	0.45
7:LN:59:MET:HE3	7:LN:59:MET:HB3	1.89	0.45
14:MN:150:SER:OG	14:MN:151:LYS:N	2.41	0.45
6:IO:102:THR:O	6:IO:102:THR:OG1	2.29	0.45
20:AP:49:ARG:HH21	20:AP:140:LEU:HD22	1.81	0.45
21:DP:107:ARG:HH11	25:YP:477:ARG:CB	2.30	0.45
20:EP:69:GLY:O	20:iP:56:GLN:OE1	2.36	0.45
21:LP:52:ILE:HD11	21:LP:86:ASP:HA	1.98	0.45
21:OP:52:ILE:HD11	21:OP:86:ASP:HA	1.98	0.45
21:QP:14:VAL:HG11	25:YP:690:ILE:HG23	1.99	0.45
23:WP:134:ARG:HH12	23:WP:138:LEU:HD21	1.81	0.45
25:YP:97:SER:OG	25:YP:98:ALA:N	2.49	0.45
25:YP:314:GLU:OE2	25:YP:317:ARG:NH1	2.48	0.45
25:YP:344:ARG:HB2	25:YP:413:LEU:CD2	2.45	0.45
26:ZP:60:ARG:NH1	26:ZP:69:VAL:O	2.49	0.45
20:IP:49:ARG:HH21	20:IP:140:LEU:HD22	1.81	0.45
21:qP:60:LEU:HD13	21:qP:72:MET:SD	2.57	0.45
20:rP:90:ARG:NH2	21:uP:73:TYR:OH	2.49	0.45
21:sP:75:THR:HG22	20:vP:115:MET:CE	2.46	0.45
21:sP:96:MET:HE3	21:sP:96:MET:HB3	1.91	0.45
23:yP:77:ASN:O	23:yP:83:ARG:HB3	2.17	0.45
25:1P:454:PHE:HB3	25:1P:536:GLY:CA	2.47	0.45
7:BQ:40:ALA:HB2	7:BQ:161:LEU:HD23	1.99	0.45
7:DQ:117:TYR:O	7:DQ:122:VAL:N	2.44	0.45
6:EQ:42:GLU:HA	6:EQ:45:ALA:HB3	1.99	0.45
7:FQ:137:GLN:CD	29:FQ:203:PEB:NB	2.72	0.45
6:KQ:93:VAL:HG21	6:KQ:156:LEU:HD23	1.99	0.45
8:eR:263:SER:OG	8:eR:272:LYS:HB2	2.17	0.45
6:OR:138:LEU:HD11	6:OR:144:MET:CE	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SR:115:GLU:N	6:SR:118:ARG:HH21	2.14	0.45
6:WR:62:LYS:HG2	6:WR:63:TYR:CE1	2.52	0.45
7:XR:77:ARG:HG2	7:XR:77:ARG:HH11	1.82	0.45
1:X1:187:ASP:HB3	1:X1:191:ASP:OD2	2.17	0.44
4:E1:116:GLU:OE1	4:E1:116:GLU:HA	2.18	0.44
5:H1:35:ASN:ND2	29:H1:1002:PEB:O1C	2.50	0.44
5:L1:139:VAL:HG12	5:L1:139:VAL:O	2.17	0.44
7:Y1:46:SER:CB	6:Z1:157:ASP:OD2	2.63	0.44
6:d1:32:GLN:O	6:d1:33:ARG:CZ	2.65	0.44
6:M2:142:ARG:HG2	6:M2:143:ASP:H	1.82	0.44
29:M2:201:PEB:CMC	7:V2:79:MET:HG3	2.44	0.44
6:Q2:13:ASP:OD2	7:R2:92:TYR:HE1	2.00	0.44
6:S2:62:LYS:HG2	6:S2:63:TYR:CE1	2.52	0.44
7:B3:42:ASN:O	7:B3:46:SER:OG	2.26	0.44
7:M3:91:ARG:NH2	9:O3:314:ALA:HB3	2.31	0.44
10:d4:96:PHE:O	10:d4:99:GLN:N	2.51	0.44
6:B4:89:TYR:C	6:B4:90:MET:HE3	2.42	0.44
7:C4:24:LEU:HD23	7:C4:27:LEU:HD13	1.99	0.44
7:C4:109:CYS:O	7:C4:113:LEU:HB2	2.17	0.44
7:C4:131:VAL:HG21	7:C4:172:VAL:HG13	2.00	0.44
6:D4:94:ASN:ND2	7:E4:18:TYR:HD1	2.04	0.44
6:D4:147:GLN:NE2	6:D4:150:VAL:HB	2.32	0.44
6:F4:156:LEU:O	6:F4:160:ILE:HG13	2.17	0.44
7:G4:62:GLU:N	29:G4:203:PEB:HBD2	2.32	0.44
6:H4:1:MET:HB3	6:H4:2:LYS:H	1.68	0.44
7:K4:113:LEU:HD12	7:K4:116:THR:OG1	2.17	0.44
6:L4:78:LYS:HB3	29:L4:201:PEB:HMB1	1.98	0.44
7:M4:135:LYS:NZ	7:M4:169:PHE:HB2	2.30	0.44
7:B5:72:MEN:HE23	29:B5:201:PEB:HMB2	1.98	0.44
7:G5:150:LYS:C	7:k9:147:THR:HB	2.42	0.44
7:C5:67:ILE:HD12	7:C5:67:ILE:HA	1.79	0.44
12:E5:161:SER:OG	12:E5:162:ASN:N	2.49	0.44
12:E5:173:PHE:O	12:E5:176:SER:OG	2.33	0.44
12:E5:233:TYR:OH	29:l9:202:PEB:C3A	2.38	0.44
13:k6:69:ALA:HA	13:k6:72:GLU:HG2	1.99	0.44
4:I7:97:TYR:O	4:I7:101:VAL:HB	2.16	0.44
7:Y7:54:ASP:OD2	7:Y7:137:GLN:NE2	2.50	0.44
7:a7:15:LYS:O	7:a7:16:ALA:HB3	2.17	0.44
7:m7:92:TYR:HB3	7:m7:105:LEU:HD13	1.97	0.44
7:G8:38:LEU:HD22	12:E8:219:PHE:HE1	1.82	0.44
7:H8:72:MEN:N	7:H8:72:MEN:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:2:LEU:HD22	28:4P:114:PHE:CE1	2.53	0.44
7:I8:2:LEU:HD12	7:I8:2:LEU:HA	1.77	0.44
7:I8:79:MET:CG	15:bM:229:LEU:CD2	2.95	0.44
7:K8:36:LYS:HB3	7:K8:161:LEU:CD1	2.47	0.44
7:C8:40:ALA:CB	7:C8:161:LEU:HD13	2.40	0.44
12:E8:88:ALA:HB1	6:ZF:141:PRO:CD	2.48	0.44
5:H9:145:THR:OG1	5:H9:146:THR:N	2.50	0.44
7:P9:54:ASP:OD2	7:P9:137:GLN:NE2	2.50	0.44
7:T9:53:SER:O	7:T9:57:SER:OG	2.28	0.44
6:U9:22:SER:O	6:U9:26:SER:OG	2.35	0.44
6:l9:22:SER:O	6:l9:26:SER:OG	2.35	0.44
6:AA:81:LYS:HE2	6:AA:84:ARG:HH21	1.82	0.44
7:FA:65:GLY:O	7:FA:68:SER:OG	2.35	0.44
7:FA:113:LEU:HD11	7:FA:176:ILE:HA	1.99	0.44
6:GA:54:GLU:HG3	6:GA:133:TYR:HE2	1.82	0.44
6:KA:9:VAL:HG21	7:LA:104:VAL:HG11	1.99	0.44
6:KA:39:GLU:CD	6:KA:39:GLU:C	2.85	0.44
6:CB:48:HIS:CD2	6:CB:48:HIS:O	2.70	0.44
7:TB:59:MET:HE2	7:TB:59:MET:HB3	1.89	0.44
7:XB:10:VAL:O	7:XB:10:VAL:HG12	2.16	0.44
7:gB:35:ASN:N	7:gB:35:ASN:ND2	2.64	0.44
7:iB:10:VAL:O	7:iB:10:VAL:HG12	2.16	0.44
7:BC:51:MET:CE	7:BC:137:GLN:HB2	2.37	0.44
6:EC:81:LYS:NZ	29:EC:201:PEB:O2C	2.41	0.44
18:MC:124:PRO:HG2	18:MC:216:ARG:HG3	1.98	0.44
10:dD:198:TYR:OH	29:MD:201:PEB:O1C	2.23	0.44
10:dD:219:LYS:HA	10:dD:242:ALA:HA	1.99	0.44
10:dD:226:ARG:HH11	6:WI:46:GLY:C	2.22	0.44
10:dD:339:LEU:HD12	10:dD:340:ALA:N	2.32	0.44
6:BD:89:TYR:C	6:BD:90:MET:HE3	2.42	0.44
7:CD:123:PRO:O	7:CD:126:SER:OG	2.35	0.44
7:ED:151:MET:HA	7:ED:151:MET:HE2	1.99	0.44
7:GD:58:GLY:HA2	29:GD:203:PEB:HMD3	1.99	0.44
7:GD:109:CYS:O	7:GD:113:LEU:HB2	2.18	0.44
7:ID:151:MET:HA	7:ID:151:MET:HE2	1.99	0.44
6:JD:78:LYS:HB3	29:JD:201:PEB:HMB1	1.98	0.44
7:KD:131:VAL:HG21	7:KD:172:VAL:HG13	2.00	0.44
7:MD:109:CYS:O	7:MD:113:LEU:HB2	2.17	0.44
7:MD:125:ASN:O	7:MD:129:ARG:HB2	2.17	0.44
6:AE:4:VAL:HG11	6:AE:30:ASN:HD21	1.81	0.44
6:IE:144:MET:HE3	6:IE:144:MET:HB3	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LE:75:THR:HG22	7:LE:77:ARG:H	1.82	0.44
18:ME:214:ASP:C	18:ME:216:ARG:N	2.73	0.44
18:ME:232:MET:SD	18:ME:237:PHE:HA	2.57	0.44
18:ME:265:LYS:HG2	18:ME:266:GLY:H	1.82	0.44
1:XF:362:PRO:HG2	7:PF:114:LYS:NZ	2.32	0.44
2:AF:108:VAL:HG22	2:AF:111:ALA:HB2	1.98	0.44
3:BF:188:PHE:HA	3:BF:192:LEU:HD13	1.98	0.44
4:GF:2:LYS:HE3	4:IF:17:ARG:NH2	2.31	0.44
7:aF:6:SER:O	7:aF:10:VAL:HG13	2.17	0.44
7:aF:115:GLU:HA	7:aF:118:ILE:HG12	1.99	0.44
6:dF:52:VAL:HG13	6:dF:86:VAL:CG1	2.47	0.44
7:iF:115:GLU:HA	7:iF:118:ILE:HG12	1.99	0.44
7:mF:115:GLU:HA	7:mF:118:ILE:HG12	1.99	0.44
6:AG:128:VAL:HG11	6:AG:164:SER:HB3	1.99	0.44
7:DG:135:LYS:NZ	7:DG:166:ALA:O	2.50	0.44
7:FG:141:PHE:CE1	29:FG:203:PEB:CMA	2.97	0.44
6:KG:15:ALA:O	14:MG:247:LYS:HE3	2.16	0.44
6:KG:93:VAL:O	6:KG:97:LEU:HB2	2.17	0.44
7:LG:133:ILE:HG12	29:LG:203:PEB:HMC1	1.97	0.44
14:MG:245:MET:CE	14:MG:245:MET:CA	2.86	0.44
3:BI:99:ASN:OD1	5:NI:108:ARG:NH2	2.50	0.44
4:EI:28:ASN:ND2	29:FI:1002:PEB:OD	2.50	0.44
5:JI:107:ASP:OD1	27:aP:124:TRP:CZ2	2.70	0.44
5:NI:37:ARG:NH1	5:NI:97:MET:O	2.47	0.44
7:PI:6:SER:O	7:PI:10:VAL:HG13	2.17	0.44
6:SI:142:ARG:HH22	29:SI:202:PEB:HNA	1.65	0.44
7:TI:115:GLU:HA	7:TI:118:ILE:HG12	1.99	0.44
7:kI:3:ASP:OD1	7:kI:6:SER:OG	2.30	0.44
7:kI:6:SER:O	7:kI:10:VAL:HG13	2.17	0.44
7:FJ:22:SER:O	7:FJ:25:GLN:OE1	2.35	0.44
7:HJ:2:LEU:H	7:HJ:103:SER:HG	1.56	0.44
6:KJ:85:ASP:OD2	6:KJ:127:TYR:OH	2.30	0.44
6:QJ:75:ASN:OD1	6:QJ:78:LYS:HG3	2.17	0.44
7:RJ:114:LYS:NZ	7:RJ:176:ILE:O	2.50	0.44
6:YJ:21:ASN:HA	6:YJ:24:LEU:HD12	1.98	0.44
7:dJ:131:VAL:HG13	7:dJ:169:PHE:HD1	1.83	0.44
6:kJ:17:ARG:NH2	6:mJ:102:THR:OG1	2.50	0.44
6:mJ:13:ASP:HA	7:nJ:95:TYR:OH	2.17	0.44
6:oJ:43:LYS:HA	6:oJ:43:LYS:HD2	1.67	0.44
6:sJ:2:LYS:HB2	16:xJ:79:THR:O	2.17	0.44
7:tJ:111:ASN:O	16:xJ:224:SER:CB	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wJ:139:GLU:O	16:wJ:143:THR:OG1	2.23	0.44
4:CK:1:MET:HE2	4:CK:1:MET:HB2	1.90	0.44
5:NK:139:VAL:O	5:NK:139:VAL:HG12	2.17	0.44
6:KL:48:HIS:CD2	6:KL:48:HIS:O	2.70	0.44
6:KL:78:LYS:HA	6:KL:78:LYS:HD2	1.79	0.44
7:TL:25:GLN:HG3	25:1P:521:THR:CG2	2.10	0.44
7:VL:84:ARG:NH2	7:VL:85:ASP:OD1	2.50	0.44
7:XL:131:VAL:HG13	7:XL:169:PHE:HD1	1.83	0.44
7:IL:1:MET:HE3	7:IL:104:VAL:HB	1.99	0.44
6:mL:85:ASP:OD2	6:mL:127:TYR:OH	2.30	0.44
7:rL:84:ARG:NH2	7:rL:85:ASP:OD1	2.50	0.44
16:wL:239:ALA:O	16:wL:243:VAL:HG23	2.17	0.44
17:BM:114:GLY:O	6:OM:16:GLY:HA3	2.17	0.44
17:BM:155:ILE:HD11	17:BM:269:LEU:HG	1.99	0.44
17:BM:246:ARG:HA	17:BM:246:ARG:HD3	1.80	0.44
6:UM:67:LYS:NZ	14:MQ:97:PHE:HE1	1.98	0.44
7:gM:79:MET:HE2	29:jM:201:PEB:HAC1	1.99	0.44
6:jM:53:LYS:O	6:jM:57:ASP:OD1	2.35	0.44
6:jM:54:GLU:OE1	29:jM:202:PEB:HBC1	2.18	0.44
7:FN:81:ALA:CB	14:MN:174:ARG:HH22	2.31	0.44
6:CO:44:LEU:HD22	6:CO:152:PHE:HE1	1.81	0.44
6:IO:42:GLU:O	6:IO:42:GLU:OE2	2.33	0.44
20:TP:64:ASP:OD1	20:TP:64:ASP:N	2.42	0.44
25:YP:735:ILE:HA	25:YP:738:PHE:CZ	2.52	0.44
28:bP:46:THR:HB	28:bP:58:GLY:H	1.81	0.44
21:dP:17:LYS:HE3	23:yP:134:ARG:CD	2.47	0.44
21:dP:90:ARG:HD2	20:eP:16:ARG:O	2.17	0.44
20:iP:20:PRO:HB3	22:xP:151:PRO:HB2	1.98	0.44
20:mP:16:ARG:HG3	20:mP:16:ARG:HH11	1.81	0.44
21:qP:58:LYS:HE2	21:qP:58:LYS:HB3	1.81	0.44
21:uP:32:GLN:HG2	27:3P:143:ILE:CD1	2.47	0.44
25:1P:52:ILE:O	25:1P:56:ILE:HG13	2.18	0.44
25:1P:794:GLY:O	25:1P:841:ARG:HB3	2.17	0.44
6:AQ:128:VAL:HG11	6:AQ:164:SER:HB3	1.99	0.44
6:EQ:2:LYS:HZ1	14:MQ:194:ILE:CG1	2.30	0.44
6:EQ:93:VAL:O	6:EQ:97:LEU:HB2	2.17	0.44
7:FQ:135:LYS:NZ	7:FQ:166:ALA:O	2.50	0.44
6:GQ:93:VAL:O	6:GQ:97:LEU:HB2	2.17	0.44
6:IQ:42:GLU:HA	6:IQ:45:ALA:HB3	1.99	0.44
6:KQ:17:ARG:HH21	6:KQ:20:SER:HB3	1.82	0.44
6:KQ:42:GLU:HA	6:KQ:45:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KQ:93:VAL:O	6:KQ:97:LEU:HB2	2.17	0.44
7:LQ:133:ILE:HG23	29:LQ:202:PEB:O1C	2.18	0.44
8:eR:214:PHE:CD2	29:TR:201:PEB:O1C	2.68	0.44
6:MR:139:CYS:SG	6:MR:142:ARG:HB3	2.57	0.44
8:e2:57:PHE:CD1	8:e2:57:PHE:O	2.70	0.44
7:V2:84:ARG:HH11	7:V2:84:ARG:CG	2.13	0.44
6:C3:40:ALA:HB2	6:C3:148:ALA:HB1	1.99	0.44
9:O3:169:GLN:O	9:O3:173:THR:OG1	2.31	0.44
10:d4:332:VAL:HG12	10:d4:336:LYS:HZ3	1.82	0.44
7:E4:41:VAL:O	7:E4:45:VAL:HG12	2.18	0.44
7:E4:71:GLY:O	7:E4:73:CYS:N	2.46	0.44
6:F4:19:PRO:HA	6:F4:23:ASP:OD2	2.17	0.44
7:G4:113:LEU:HD12	7:G4:116:THR:OG1	2.17	0.44
6:H4:137:ARG:NH1	29:H4:202:PEB:CGB	2.80	0.44
6:H4:156:LEU:O	6:H4:160:ILE:HG13	2.17	0.44
7:I4:109:CYS:O	7:I4:113:LEU:HB2	2.17	0.44
7:K4:88:ILE:HG21	29:K4:201:PEB:HAD1	1.98	0.44
7:K5:142:ILE:HG21	7:K5:162:ALA:CA	2.43	0.44
13:k6:134:ILE:HG13	13:k6:143:ALA:HB3	1.90	0.44
5:D7:33:GLU:O	5:D7:35:ASN:N	2.50	0.44
5:D7:66:LEU:C	5:D7:73:ALA:HB3	2.42	0.44
4:G7:122:PHE:C	4:G7:123:ASP:OD1	2.52	0.44
4:M7:97:TYR:O	4:M7:101:VAL:HB	2.16	0.44
6:S7:56:GLY:HA3	6:S7:83:TYR:HE1	1.81	0.44
6:W7:53:LYS:HA	6:W7:53:LYS:HD3	1.71	0.44
6:b7:22:SER:O	6:b7:26:SER:OG	2.35	0.44
6:d7:22:SER:O	6:d7:26:SER:OG	2.35	0.44
7:e7:54:ASP:OD2	7:e7:137:GLN:NE2	2.50	0.44
7:B8:104:VAL:HG21	18:ME:266:GLY:CA	1.96	0.44
7:B8:148:GLU:OE2	29:B8:203:PEB:NA	2.49	0.44
7:F8:148:GLU:OE2	29:F8:203:PEB:NA	2.49	0.44
7:G8:148:GLU:OE2	29:G8:203:PEB:NA	2.49	0.44
7:K8:1:MET:HE3	7:K8:95:TYR:CE2	2.53	0.44
12:E8:174:TRP:CB	6:ZF:83:TYR:HB2	2.47	0.44
3:B9:174:GLU:CG	26:ZP:80:SER:O	2.66	0.44
5:H9:33:GLU:O	5:H9:35:ASN:N	2.50	0.44
5:J9:145:THR:OG1	5:J9:146:THR:N	2.50	0.44
4:K9:97:TYR:O	4:K9:101:VAL:HB	2.16	0.44
5:L9:30:MET:HE3	27:3P:237:ALA:O	2.16	0.44
4:M9:97:TYR:O	4:M9:101:VAL:HB	2.16	0.44
7:V9:136:ALA:HB2	13:kH:161:ILE:HG22	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a9:54:ASP:OD2	7:a9:137:GLN:NE2	2.50	0.44
6:b9:53:LYS:HD3	6:b9:53:LYS:HA	1.71	0.44
6:CA:54:GLU:HG3	6:CA:133:TYR:HE2	1.82	0.44
7:FA:130:ALA:HA	7:FA:133:ILE:HD12	1.98	0.44
6:IA:96:CYS:SG	6:IA:105:LEU:N	2.90	0.44
7:JB:10:VAL:O	7:JB:10:VAL:HG12	2.16	0.44
7:HC:24:LEU:H	7:HC:24:LEU:HG	1.59	0.44
7:CD:77:ARG:NH2	7:CD:78:ARG:HG2	2.32	0.44
6:FD:19:PRO:HA	6:FD:23:ASP:OD2	2.17	0.44
7:ID:24:LEU:HD23	7:ID:27:LEU:HD13	1.99	0.44
6:JD:29:GLY:O	6:JD:32:GLN:OE1	2.35	0.44
6:JD:89:TYR:C	6:JD:90:MET:HE3	2.42	0.44
7:KD:125:ASN:O	7:KD:129:ARG:HB2	2.17	0.44
7:MD:131:VAL:HG21	7:MD:172:VAL:HG13	2.00	0.44
6:CE:91:ARG:NH2	7:HE:74:TYR:OH	2.50	0.44
7:LE:51:MET:CE	7:LE:137:GLN:HB2	2.37	0.44
7:LE:111:ASN:O	18:ME:211:SER:CB	2.65	0.44
7:LE:123:PRO:O	7:LE:126:SER:OG	2.35	0.44
18:ME:124:PRO:HG2	18:ME:216:ARG:HG3	1.98	0.44
5:JF:17:GLU:HG2	27:3P:95:GLY:CA	2.47	0.44
7:RF:70:GLY:HA3	7:kF:125:ASN:HB3	2.00	0.44
6:SF:142:ARG:HH22	29:SF:202:PEB:HNA	1.65	0.44
7:eF:115:GLU:HA	7:eF:118:ILE:HG12	1.99	0.44
7:kF:6:SER:O	7:kF:10:VAL:HG13	2.17	0.44
7:kF:170:ASP:OD1	7:kF:171:ARG:N	2.50	0.44
6:AG:42:GLU:HA	6:AG:45:ALA:HB3	1.99	0.44
6:AG:114:ARG:HD3	6:AG:114:ARG:HA	1.70	0.44
6:CG:13:ASP:HA	7:DG:91:ARG:NH2	2.31	0.44
6:CG:27:ILE:HD11	7:DG:38:LEU:HD21	1.98	0.44
6:EG:33:ARG:HB3	6:EG:37:ARG:HB3	1.99	0.44
7:FG:60:ILE:HD11	7:FG:67:ILE:HG13	1.98	0.44
6:IG:93:VAL:HG21	6:IG:156:LEU:HD23	1.99	0.44
6:KG:105:LEU:HD23	6:KG:110:ILE:HG12	2.00	0.44
13:kH:158:LYS:HD2	13:kH:158:LYS:O	2.17	0.44
5:JI:23:GLN:CA	27:aP:92:PRO:HD2	2.47	0.44
4:MI:45:THR:HG23	5:NI:18:PHE:HB3	1.98	0.44
6:QI:29:GLY:O	6:QI:33:ARG:HG2	2.18	0.44
7:gI:6:SER:O	7:gI:10:VAL:HG13	2.17	0.44
7:gI:148:GLU:OE1	7:gI:148:GLU:N	2.51	0.44
7:iI:1:MET:SD	7:iI:104:VAL:CG2	3.05	0.44
7:iI:1:MET:SD	7:iI:104:VAL:HG21	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:mI:6:SER:O	7:mI:10:VAL:HG13	2.17	0.44
6:AJ:55:ALA:HB2	6:AJ:134:THR:OG1	2.18	0.44
6:GJ:122:LEU:CD2	29:GJ:201:PEB:HNA	2.24	0.44
7:HJ:84:ARG:NH2	7:HJ:85:ASP:OD1	2.50	0.44
7:PJ:131:VAL:HG13	7:PJ:169:PHE:HD1	1.83	0.44
6:QJ:139:CYS:HB3	29:QJ:202:PEB:H3A1	1.72	0.44
7:VJ:131:VAL:HG13	7:VJ:169:PHE:HD1	1.83	0.44
6:YJ:99:VAL:O	6:YJ:99:VAL:HG12	2.18	0.44
6:iJ:124:THR:HB	6:iJ:163:LEU:HD12	1.98	0.44
6:kJ:101:GLY:HA2	6:mJ:22:SER:OG	2.17	0.44
7:nJ:1:MET:HE3	7:nJ:104:VAL:HB	1.99	0.44
6:oJ:16:GLY:HA2	7:pJ:91:ARG:NH1	2.32	0.44
6:oJ:28:GLN:OE1	6:qJ:33:ARG:CG	2.65	0.44
6:qJ:98:VAL:HG21	7:rJ:19:VAL:CG2	2.47	0.44
16:xJ:88:GLU:HG2	30:xJ:305:PUB:HHC1	1.98	0.44
17:yJ:114:GLY:HA3	17:yJ:119:MET:HB3	1.98	0.44
5:HK:139:VAL:O	5:HK:139:VAL:HG12	2.17	0.44
5:JK:33:GLU:CD	5:JK:156:LEU:HD21	2.42	0.44
4:MK:2:LYS:H	4:MK:105:GLY:HA3	1.82	0.44
7:kK:124:THR:O	7:kK:127:SER:OG	2.23	0.44
7:FL:84:ARG:NH2	7:FL:85:ASP:OD1	2.50	0.44
6:ML:21:ASN:HA	6:ML:24:LEU:HD12	1.98	0.44
6:ML:78:LYS:HD2	29:ML:201:PEB:CMB	2.48	0.44
6:QL:48:HIS:CD2	6:QL:48:HIS:O	2.70	0.44
7:RL:114:LYS:NZ	7:RL:176:ILE:O	2.50	0.44
6:SL:21:ASN:HA	6:SL:24:LEU:HD12	1.98	0.44
7:XL:1:MET:HE3	7:XL:104:VAL:HB	1.99	0.44
6:gL:85:ASP:OD2	6:gL:127:TYR:OH	2.30	0.44
6:uL:85:ASP:OD2	6:uL:127:TYR:OH	2.30	0.44
16:wL:165:ARG:HH12	29:wL:303:PEB:C1C	2.30	0.44
16:xL:169:PRO:HB3	16:xL:174:GLU:HB2	1.99	0.44
19:zL:170:MET:HG2	19:zL:248:ASN:HD21	1.82	0.44
7:DM:59:MET:HE2	7:DM:59:MET:HB3	1.89	0.44
7:FM:10:VAL:O	7:FM:10:VAL:HG12	2.15	0.44
7:HM:97:LEU:HD13	7:HM:165:VAL:HB	1.98	0.44
7:HN:150:LYS:HA	7:HN:150:LYS:HD3	1.89	0.44
6:IN:54:GLU:HG3	6:IN:133:TYR:HE2	1.82	0.44
6:KN:54:GLU:HG3	6:KN:133:TYR:HE2	1.82	0.44
14:MN:327:ARG:HD2	29:MN:401:PEB:HMA2	1.99	0.44
6:IO:26:SER:HB2	6:KO:26:SER:HB2	1.98	0.44
29:MO:203:PEB:HMC1	29:MO:203:PEB:HMD1	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:OO:179:GLU:O	9:OO:182:SER:OG	2.34	0.44
21:FP:52:ILE:HD11	21:FP:86:ASP:HA	1.98	0.44
21:OP:75:THR:HG21	22:VP:108:GLY:O	2.16	0.44
21:QP:58:LYS:HE2	21:QP:58:LYS:HB3	1.80	0.44
24:XP:67:ARG:HG2	24:XP:123:GLY:HA3	1.99	0.44
25:YP:664:SER:O	25:YP:668:LYS:CE	2.60	0.44
25:YP:691:LYS:HB3	25:YP:691:LYS:HE2	1.69	0.44
21:dP:22:ASN:HD22	23:yP:140:LYS:NZ	2.15	0.44
21:uP:72:MET:HG3	21:uP:72:MET:O	2.16	0.44
21:wP:58:LYS:HE2	21:wP:58:LYS:HB3	1.81	0.44
21:wP:96:MET:HE3	21:wP:96:MET:HB3	1.91	0.44
22:xP:126:MET:HE1	31:xP:1001:CYC:H3C	1.99	0.44
23:yP:59:LEU:HD22	23:yP:135:VAL:HB	1.97	0.44
25:1P:266:LYS:O	25:1P:269:LEU:HG	2.18	0.44
6:KQ:105:LEU:HD23	6:KQ:110:ILE:HG12	2.00	0.44
8:eR:221:ASN:HD22	7:TR:113:LEU:CB	2.30	0.44
6:MR:82:CYS:O	6:MR:86:VAL:HG22	2.17	0.44
6:QR:37:ARG:HG2	6:QR:97:LEU:O	2.18	0.44
6:UR:17:ARG:NH2	6:WR:2:LYS:CE	2.80	0.44
6:WR:59:CYS:HB2	6:WR:130:SER:HB3	1.99	0.44
7:XR:75:THR:HG22	7:XR:78:ARG:HG3	1.99	0.44
5:F1:36:GLN:O	5:F1:39:ASP:OD1	2.35	0.44
4:I1:2:LYS:H	4:I1:105:GLY:HA3	1.82	0.44
5:J1:20:SER:OG	15:bB:332:MET:HA	2.18	0.44
5:J1:139:VAL:O	5:J1:139:VAL:HG12	2.17	0.44
6:j1:5:ILE:HG21	7:k1:99:ALA:HA	1.98	0.44
6:j1:17:ARG:NH2	6:l1:158:TYR:OH	2.49	0.44
6:O2:69:PRO:HG2	13:k6:232:PHE:HB2	1.97	0.44
6:U2:17:ARG:NH2	6:W2:2:LYS:CE	2.80	0.44
6:A3:102:THR:CG2	6:A3:155:TYR:HE1	2.31	0.44
7:E4:113:LEU:HD12	7:E4:116:THR:OG1	2.17	0.44
7:E4:131:VAL:HG21	7:E4:172:VAL:HG13	1.99	0.44
6:F4:89:TYR:C	6:F4:90:MET:HE3	2.42	0.44
7:I4:24:LEU:HD23	7:I4:27:LEU:HD13	1.99	0.44
7:I4:88:ILE:HG21	29:I4:201:PEB:CAD	2.41	0.44
6:J4:19:PRO:HA	6:J4:23:ASP:OD2	2.17	0.44
7:K4:131:VAL:HG21	7:K4:172:VAL:HG13	1.99	0.44
6:L4:75:ASN:OD1	6:L4:75:ASN:C	2.60	0.44
7:M4:36:LYS:HZ3	29:M4:202:PEB:C2B	2.30	0.44
7:M4:151:MET:HA	7:M4:151:MET:HE2	1.99	0.44
7:G5:72:MEN:OD1	7:G5:72:MEN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D5:251:ILE:HG12	11:D5:263:VAL:HG23	1.99	0.44
12:E5:38:LEU:HD12	5:F9:165:ASP:HB3	1.99	0.44
3:B7:206:PHE:HE1	21:QP:62:TYR:CE2	2.36	0.44
4:G7:97:TYR:O	4:G7:101:VAL:HB	2.16	0.44
6:S7:34:SER:HA	6:S7:37:ARG:HG2	2.00	0.44
6:W7:142:ARG:NE	29:W7:202:PEB:C4A	2.80	0.44
6:Z7:34:SER:HA	6:Z7:37:ARG:HG2	2.00	0.44
7:g7:54:ASP:OD2	7:g7:137:GLN:NE2	2.50	0.44
7:G8:108:ARG:HD2	7:G8:108:ARG:HA	1.85	0.44
7:K8:1:MET:HA	7:K8:104:VAL:HG22	1.98	0.44
7:C8:74:TYR:O	7:C8:78:ARG:HB2	2.17	0.44
7:C8:77:ARG:NH2	29:C8:201:PEB:O2B	2.50	0.44
12:E8:51:LYS:HE2	12:E8:51:LYS:HB3	1.83	0.44
1:X9:321:TYR:CE2	5:D9:84:ARG:CZ	3.01	0.44
5:H9:30:MET:HE2	5:H9:30:MET:HB3	1.86	0.44
5:N9:65:GLN:H	5:N9:65:GLN:HG2	1.64	0.44
6:S9:22:SER:O	6:S9:26:SER:OG	2.35	0.44
7:DA:106:GLU:HA	7:DA:110:LEU:HD12	1.99	0.44
29:JA:201:PEB:HAC1	14:MA:162:LEU:CD2	2.47	0.44
7:PB:1:MET:HE3	7:PB:1:MET:HB2	1.89	0.44
7:gB:79:MET:HE2	29:jB:201:PEB:HAC1	1.99	0.44
7:FC:21:GLY:O	7:FC:25:GLN:NE2	2.41	0.44
7:FC:91:ARG:HH22	18:MC:92:VAL:HG21	1.82	0.44
7:LC:88:ILE:HD11	18:MC:81:TYR:OH	2.17	0.44
10:dD:312:ALA:O	10:dD:315:SER:OG	2.19	0.44
6:BD:78:LYS:HB3	29:BD:201:PEB:HMB1	1.98	0.44
7:CD:2:LEU:HD22	7:CD:6:SER:HB2	2.00	0.44
7:CD:88:ILE:HG21	29:CD:201:PEB:HAD1	1.98	0.44
7:CD:113:LEU:HD12	7:CD:116:THR:OG1	2.17	0.44
7:CD:165:VAL:HA	7:CD:168:TYR:CD2	2.40	0.44
7:GD:41:VAL:O	7:GD:45:VAL:HG12	2.18	0.44
6:HD:89:TYR:C	6:HD:90:MET:HE3	2.42	0.44
6:JD:133:TYR:CE2	6:JD:137:ARG:HG3	2.53	0.44
7:KD:113:LEU:HD12	7:KD:116:THR:OG1	2.17	0.44
7:KD:151:MET:HA	7:KD:151:MET:HE2	1.99	0.44
7:MD:2:LEU:HD22	7:MD:6:SER:HB2	2.00	0.44
7:BE:125:ASN:N	7:BE:125:ASN:OD1	2.48	0.44
6:EE:106:ASP:OD2	6:GE:17:ARG:NH1	2.50	0.44
7:FE:75:THR:HG22	7:FE:77:ARG:H	1.82	0.44
29:FE:201:PEB:NB	29:FE:201:PEB:NC	2.65	0.44
6:KE:92:LEU:HD11	6:KE:108:TRP:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:301:ASN:ND2	6:gL:53:LYS:CD	2.81	0.44
2:AF:183:TYR:O	2:AF:242:LYS:NZ	2.50	0.44
3:BF:168:PRO:HB2	5:LF:77:ARG:NH1	2.31	0.44
4:EF:33:ARG:NH2	29:LF:1002:PEB:HBD1	2.29	0.44
5:LF:68:GLN:OE1	27:3P:110:SER:CB	2.66	0.44
7:RF:115:GLU:HA	7:RF:118:ILE:HG12	1.99	0.44
7:cF:115:GLU:HA	7:cF:118:ILE:HG12	1.99	0.44
7:iF:6:SER:O	7:iF:10:VAL:HG13	2.17	0.44
7:kF:115:GLU:HA	7:kF:118:ILE:HG12	1.99	0.44
6:lF:142:ARG:HH22	29:lF:202:PEB:HNA	1.65	0.44
6:CG:42:GLU:HA	6:CG:45:ALA:HB3	1.99	0.44
6:CG:93:VAL:O	6:CG:97:LEU:HB2	2.17	0.44
7:FG:40:ALA:HB2	7:FG:161:LEU:HD23	1.99	0.44
7:FG:135:LYS:NZ	7:FG:166:ALA:O	2.50	0.44
7:HG:135:LYS:NZ	7:HG:166:ALA:O	2.50	0.44
13:kH:75:ARG:HD2	13:kH:75:ARG:HA	1.73	0.44
13:kH:94:LEU:HD13	13:kH:120:ILE:CD1	2.45	0.44
3:BI:58:HIS:HE1	31:JI:1001:CYC:C4A	2.29	0.44
5:FI:37:ARG:NH1	5:FI:97:MET:O	2.47	0.44
5:HI:11:GLN:NE2	7:YI:128:ILE:HD12	2.31	0.44
5:HI:14:ALA:C	7:YI:125:ASN:HD22	2.25	0.44
6:ZI:142:ARG:HH22	29:ZI:202:PEB:HNA	1.65	0.44
7:gI:128:ILE:HA	7:gI:131:VAL:HG22	2.00	0.44
7:mI:3:ASP:OD1	7:mI:6:SER:OG	2.30	0.44
6:KJ:48:HIS:CD2	6:KJ:48:HIS:O	2.70	0.44
7:PJ:84:ARG:NH2	7:PJ:85:ASP:OD1	2.50	0.44
7:RJ:1:MET:HE3	7:RJ:104:VAL:HB	1.99	0.44
7:TJ:84:ARG:NH2	7:TJ:85:ASP:OD1	2.50	0.44
7:TJ:118:ILE:HA	7:TJ:118:ILE:HD13	1.73	0.44
6:cJ:21:ASN:HA	6:cJ:24:LEU:HD12	1.98	0.44
6:cJ:85:ASP:OD2	6:cJ:127:TYR:OH	2.30	0.44
7:jJ:1:MET:HE3	7:jJ:104:VAL:HB	1.99	0.44
6:kJ:154:ALA:HB2	7:nJ:42:ASN:HD21	1.82	0.44
16:wJ:88:GLU:HG2	30:wJ:305:PUB:HHC1	1.98	0.44
1:XK:63:LEU:HD23	1:XK:66:PHE:HD2	1.82	0.44
3:BK:102:ASN:HB3	5:JK:111:ASN:HD22	1.82	0.44
4:KK:2:LYS:H	4:KK:105:GLY:HA3	1.82	0.44
6:WK:56:GLY:HA3	6:WK:83:TYR:CE2	2.52	0.44
7:DL:131:VAL:HG13	7:DL:169:PHE:HD1	1.83	0.44
7:FL:1:MET:HE3	7:FL:104:VAL:HB	1.99	0.44
7:FL:140:ALA:HA	7:FL:145:THR:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:NL:30:PHE:CD1	7:NL:30:PHE:O	2.70	0.44
7:PL:1:MET:HE3	7:PL:104:VAL:HB	1.99	0.44
7:PL:131:VAL:HG13	7:PL:169:PHE:HD1	1.83	0.44
7:RL:1:MET:HE3	7:RL:1:MET:HB2	1.80	0.44
7:dL:159:THR:O	7:dL:163:SER:OG	2.24	0.44
6:eL:139:CYS:HB3	29:eL:202:PEB:H3A1	1.72	0.44
7:fL:131:VAL:HG13	7:fL:169:PHE:HD1	1.83	0.44
7:hL:1:MET:HE3	7:hL:104:VAL:HB	1.99	0.44
7:hL:131:VAL:HG13	7:hL:169:PHE:HD1	1.82	0.44
7:pL:1:MET:HE3	7:pL:1:MET:HB2	1.80	0.44
29:pL:202:PEB:OD	6:qL:33:ARG:HD3	2.15	0.44
7:vL:84:ARG:NH2	7:vL:85:ASP:OD1	2.50	0.44
15:bM:274:ARG:HD3	15:bM:372:ILE:HG13	2.00	0.44
7:TM:97:LEU:HD13	7:TM:165:VAL:HB	1.98	0.44
6:lM:6:THR:HG22	7:mM:1:MET:HE2	1.99	0.44
6:GN:3:SER:N	6:GN:6:THR:OG1	2.51	0.44
6:GN:81:LYS:HE2	6:GN:84:ARG:HH21	1.82	0.44
6:IN:3:SER:N	6:IN:6:THR:OG1	2.51	0.44
6:IN:37:ARG:NE	6:IN:100:GLY:HA2	2.32	0.44
6:KN:96:CYS:SG	6:KN:105:LEU:N	2.90	0.44
14:MN:242:GLN:HE21	14:MN:325:SER:HB2	1.81	0.44
7:DO:59:MET:HE3	7:DO:59:MET:HB3	1.86	0.44
7:HO:37:ARG:NH1	7:HO:97:LEU:O	2.46	0.44
6:IO:21:ASN:HD21	6:KO:151:GLU:HB2	1.82	0.44
6:KO:74:GLU:H	6:KO:78:LYS:HD3	1.80	0.44
20:AP:108:GLY:HA2	21:FP:75:THR:HG21	2.00	0.44
20:RP:135:ASP:OD1	20:RP:135:ASP:N	2.51	0.44
21:jP:97:LEU:CD1	25:1P:35:LEU:HD22	2.47	0.44
21:jP:114:GLU:CG	25:1P:465:LEU:HD11	2.40	0.44
21:qP:52:ILE:HD11	21:qP:86:ASP:HA	1.98	0.44
25:1P:735:ILE:HA	25:1P:738:PHE:CZ	2.52	0.44
27:3P:287:LEU:HD13	27:3P:287:LEU:H	1.83	0.44
6:AQ:17:ARG:HH21	6:AQ:20:SER:HB3	1.82	0.44
6:EQ:17:ARG:HH21	6:EQ:20:SER:HB3	1.82	0.44
6:EQ:37:ARG:NH1	6:EQ:100:GLY:H	2.16	0.44
6:IQ:17:ARG:HH21	6:IQ:20:SER:HB3	1.82	0.44
6:IQ:93:VAL:O	6:IQ:97:LEU:HB2	2.17	0.44
14:MQ:102:LYS:CG	14:MQ:105:LYS:HB3	2.47	0.44
6:QR:6:THR:HB	7:RR:1:MET:HE2	1.98	0.44
6:QR:91:ARG:HH11	7:RR:16:ALA:HA	1.83	0.44
7:RR:40:ALA:O	7:RR:43:SER:OG	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VR:134:MET:HA	7:VR:137:GLN:HG3	1.98	0.44
1:X1:52:VAL:HG11	5:D1:125:SER:HB3	2.00	0.44
5:L1:77:ARG:NH1	5:L1:78:ARG:HG2	2.33	0.44
7:T1:124:THR:O	7:T1:127:SER:OG	2.23	0.44
7:k1:160:SER:HA	7:k1:163:SER:OG	2.18	0.44
6:M2:31:ILE:CD1	7:N2:38:LEU:HD11	2.47	0.44
6:S2:115:GLU:N	6:S2:118:ARG:HH21	2.14	0.44
7:V2:124:THR:O	7:V2:128:ILE:HG13	2.18	0.44
7:D3:15:LYS:HB2	7:D3:15:LYS:HE2	1.78	0.44
6:G3:102:THR:HG22	6:G3:155:TYR:HE1	1.82	0.44
7:M3:91:ARG:HG2	7:M3:91:ARG:H	1.48	0.44
29:N3:203:PEB:HMC1	29:N3:203:PEB:HMD1	1.98	0.44
7:C4:2:LEU:HD22	7:C4:6:SER:HB2	2.00	0.44
7:C4:58:GLY:N	29:C4:203:PEB:HMD2	2.33	0.44
7:C4:111:ASN:OD1	7:C4:111:ASN:N	2.34	0.44
7:G4:84:ARG:HE	7:G4:84:ARG:HB3	1.49	0.44
7:G4:109:CYS:O	7:G4:113:LEU:HB2	2.18	0.44
7:G4:149:ARG:O	7:G4:150:LYS:HD2	2.18	0.44
6:H4:75:ASN:OD1	6:H4:75:ASN:C	2.60	0.44
7:I4:67:ILE:O	7:I4:74:TYR:HD1	2.00	0.44
6:J4:133:TYR:CE2	6:J4:137:ARG:HG3	2.53	0.44
6:J4:156:LEU:O	6:J4:160:ILE:HG13	2.17	0.44
7:K4:41:VAL:O	7:K4:45:VAL:HG12	2.18	0.44
7:K4:67:ILE:O	7:K4:74:TYR:HD1	2.00	0.44
7:K4:148:GLU:OE2	29:K4:203:PEB:OA	2.34	0.44
7:K4:151:MET:HA	7:K4:151:MET:HE2	1.99	0.44
7:I5:67:ILE:HD12	7:I5:67:ILE:HA	1.79	0.44
7:C5:77:ARG:NH2	29:C5:201:PEB:O2B	2.50	0.44
11:D5:253:TYR:HD1	11:D5:261:ALA:HB2	1.82	0.44
13:k6:33:LYS:H	13:k6:33:LYS:HG2	1.68	0.44
5:F7:33:GLU:O	5:F7:35:ASN:N	2.50	0.44
5:H7:79:MET:HE2	5:H7:83:LEU:HG	2.00	0.44
4:M7:5:ILE:CG2	5:N7:3:ASP:OD2	2.64	0.44
7:a7:53:SER:O	7:a7:57:SER:OG	2.28	0.44
7:g7:53:SER:O	7:g7:57:SER:OG	2.28	0.44
7:K8:59:MET:HE2	7:K8:130:ALA:HB2	2.00	0.44
7:K8:173:GLY:O	7:K8:177:SER:OG	2.33	0.44
2:A9:259:ARG:HH21	2:A9:274:ASN:HD21	1.64	0.44
3:B9:30:ARG:HB2	4:M9:14:ASN:ND2	2.33	0.44
6:W9:140:VAL:N	6:W9:141:PRO:HD2	2.33	0.44
7:g9:54:ASP:OD2	7:g9:137:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AA:201:PEB:HBC1	7:JA:67:ILE:CD1	2.48	0.44
7:DA:82:CYS:HA	29:DA:201:PEB:CHA	2.48	0.44
6:EA:33:ARG:HG3	6:GA:25:GLU:OE1	2.17	0.44
6:IA:108:TRP:HZ3	7:JA:13:ASP:OD2	1.97	0.44
7:JA:65:GLY:O	7:JA:68:SER:OG	2.35	0.44
15:bB:340:GLU:HG3	15:bB:341:ALA:H	1.83	0.44
7:JB:149:ARG:HD3	7:JB:149:ARG:O	2.17	0.44
6:KB:21:ASN:ND2	6:MB:155:TYR:OH	2.50	0.44
7:PB:59:MET:HE2	7:PB:59:MET:HB3	1.89	0.44
7:cB:1:MET:HE3	7:cB:1:MET:HB2	1.89	0.44
6:lB:6:THR:HG22	7:mB:1:MET:HE2	1.99	0.44
7:mB:1:MET:HE3	7:mB:1:MET:HB2	1.89	0.44
7:BC:51:MET:HE3	7:BC:137:GLN:CD	2.43	0.44
6:GC:92:LEU:HD11	6:GC:108:TRP:HB2	1.99	0.44
6:KC:4:VAL:HG11	6:KC:30:ASN:HD21	1.81	0.44
18:MC:284:LEU:HG	5:DF:18:PHE:HE2	1.82	0.44
10:dD:110:VAL:O	10:dD:114:VAL:HG23	2.18	0.44
10:dD:151:SER:H	10:dD:154:GLU:CD	2.24	0.44
6:BD:19:PRO:HA	6:BD:23:ASP:OD2	2.17	0.44
7:ED:24:LEU:HD23	7:ED:27:LEU:HD13	1.99	0.44
7:ED:123:PRO:O	7:ED:126:SER:OG	2.35	0.44
7:GD:15:LYS:HB2	7:GD:15:LYS:HE2	1.64	0.44
7:ID:136:ALA:CB	29:ID:203:PEB:CBC	2.96	0.44
6:JD:75:ASN:C	6:JD:75:ASN:OD1	2.60	0.44
6:AE:92:LEU:HD11	6:AE:108:TRP:HB2	1.99	0.44
6:EE:92:LEU:HD11	6:EE:108:TRP:HB2	1.99	0.44
7:FE:24:LEU:H	7:FE:24:LEU:HG	1.59	0.44
7:JE:51:MET:HE3	7:JE:137:GLN:CD	2.43	0.44
6:KE:4:VAL:HG11	6:KE:30:ASN:HD21	1.81	0.44
7:LE:134:MET:SD	7:LE:137:GLN:NE2	2.89	0.44
18:ME:233:ALA:HB3	18:ME:236:ASP:OD2	2.11	0.44
1:XF:209:SER:OG	1:XF:210:MET:N	2.51	0.44
29:FF:1002:PEB:HHC2	4:KF:145:GLN:HE22	1.82	0.44
5:JF:23:GLN:HA	27:3P:92:PRO:HD2	2.00	0.44
5:JF:37:ARG:NH1	5:JF:97:MET:O	2.47	0.44
5:JF:107:ASP:OD1	27:3P:124:TRP:HZ2	2.01	0.44
5:LF:75:THR:HB	5:LF:78:ARG:H	1.81	0.44
6:UF:142:ARG:HH22	29:UF:203:PEB:HNA	1.65	0.44
7:gF:128:ILE:HA	7:gF:131:VAL:HG22	2.00	0.44
7:FG:141:PHE:HZ	29:FG:203:PEB:C3A	2.30	0.44
6:GG:93:VAL:HG21	6:GG:156:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KG:14:ALA:CB	30:MG:402:PUB:HMA1	2.48	0.44
6:KG:150:VAL:O	6:KG:153:SER:OG	2.29	0.44
7:LG:40:ALA:HB2	7:LG:161:LEU:HD23	1.99	0.44
14:MG:197:TYR:CE2	29:MG:404:PEB:HAD1	2.48	0.44
2:AI:183:TYR:O	2:AI:242:LYS:NZ	2.50	0.44
3:BI:219:ALA:CB	27:aP:60:ALA:C	2.84	0.44
4:EI:120:ARG:HD2	4:II:116:GLU:OE2	1.96	0.44
5:JI:22:THR:OG1	27:aP:92:PRO:CG	2.64	0.44
7:aI:146:ALA:O	7:aI:150:LYS:NZ	2.42	0.44
6:fI:32:GLN:HG3	6:hI:32:GLN:HG3	1.99	0.44
7:BJ:1:MET:HE3	7:BJ:1:MET:HB2	1.80	0.44
7:FJ:146:ALA:HB3	7:FJ:149:ARG:O	2.17	0.44
6:GJ:21:ASN:HA	6:GJ:24:LEU:HD12	1.98	0.44
6:IJ:130:SER:O	6:IJ:134:THR:OG1	2.36	0.44
7:JJ:131:VAL:HG13	7:JJ:169:PHE:HD1	1.83	0.44
6:aJ:139:CYS:HB3	29:aJ:202:PEB:H3A1	1.72	0.44
7:fJ:1:MET:HE3	7:fJ:104:VAL:HB	1.99	0.44
7:IJ:84:ARG:NH2	7:IJ:85:ASP:OD1	2.50	0.44
7:lJ:112:GLY:O	7:lJ:116:THR:OG1	2.32	0.44
7:rJ:84:ARG:NH2	7:rJ:85:ASP:OD1	2.50	0.44
16:wJ:39:LEU:CD2	17:yJ:200:PHE:CE1	2.99	0.44
16:xJ:169:PRO:HB3	16:xJ:174:GLU:HB2	1.99	0.44
19:zJ:170:MET:HG2	19:zJ:248:ASN:HD21	1.82	0.44
19:zJ:216:TYR:HE2	19:zJ:225:GLN:OE1	2.01	0.44
4:CK:63:PHE:HB3	4:CK:65:TYR:CE1	2.52	0.44
5:DK:30:MET:HE3	5:DK:30:MET:HB2	1.71	0.44
5:FK:36:GLN:O	5:FK:39:ASP:OD1	2.35	0.44
5:HK:35:ASN:ND2	29:HK:1002:PEB:O1C	2.50	0.44
7:YK:115:GLU:HA	7:YK:118:ILE:HG12	2.00	0.44
7:eK:124:THR:O	7:eK:127:SER:OG	2.23	0.44
6:QL:106:ASP:HA	6:QL:110:ILE:HB	2.00	0.44
7:RL:114:LYS:HZ3	7:RL:177:SER:C	2.25	0.44
6:UL:33:ARG:HH21	6:WL:24:LEU:C	2.24	0.44
6:sL:139:CYS:HB3	29:sL:202:PEB:H3A1	1.72	0.44
16:wL:88:GLU:HG2	30:wL:305:PUB:HHC1	1.98	0.44
15:bM:336:SER:N	15:bM:337:PRO:CD	2.81	0.44
7:LM:159:THR:O	7:LM:163[B]:SER:OG	2.33	0.44
6:fM:136:ASP:OD1	6:fM:136:ASP:N	2.50	0.44
7:gM:84:ARG:CZ	7:gM:84:ARG:CB	2.95	0.44
7:kM:82:CYS:HA	29:kM:201:PEB:HAA1	1.72	0.44
7:mM:10:VAL:O	7:mM:10:VAL:HG12	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AN:110:ILE:HG23	6:AN:162:ALA:HB1	2.00	0.44
7:BN:82:CYS:HA	29:BN:201:PEB:CHA	2.48	0.44
7:BN:106:GLU:HA	7:BN:110:LEU:HD12	1.99	0.44
7:DN:67:ILE:HD13	29:KN:201:PEB:HBC1	2.00	0.44
7:DN:82:CYS:HA	29:DN:201:PEB:CHA	2.48	0.44
6:GN:110:ILE:HG23	6:GN:162:ALA:HB1	2.00	0.44
7:LN:106:GLU:HA	7:LN:110:LEU:HD12	1.99	0.44
6:AO:17:ARG:HH22	6:CO:102:THR:HG21	1.82	0.44
7:BO:107:ASP:HA	7:BO:111:ASN:HB2	1.99	0.44
6:GO:102:THR:HG22	6:GO:155:TYR:HE1	1.82	0.44
20:AP:16:ARG:HG3	20:AP:16:ARG:HH11	1.80	0.44
20:CP:135:ASP:N	20:CP:135:ASP:OD1	2.51	0.44
21:IP:52:ILE:HD11	21:IP:86:ASP:HA	1.98	0.44
21:QP:65:ILE:O	21:QP:70:GLY:HA3	2.18	0.44
23:WP:67:LEU:HD13	31:YP:1000:CYC:CGA	2.47	0.44
21:hP:52:ILE:HD11	21:hP:86:ASP:HA	1.98	0.44
20:iP:57:GLN:HB2	20:iP:132:CYS:HB3	2.00	0.44
20:rP:32:SER:HB3	26:2P:120:PHE:HA	1.99	0.44
20:rP:155:TYR:HA	26:2P:135:LEU:HD21	1.99	0.44
21:sP:65:ILE:O	21:sP:70:GLY:HA3	2.18	0.44
25:1P:635:PHE:CE1	25:1P:641:PRO:HA	2.52	0.44
25:1P:761:MET:O	25:1P:765:LEU:HB2	2.17	0.44
28:4P:60:ASP:O	28:4P:61:THR:OG1	2.31	0.44
6:AQ:33:ARG:O	6:AQ:37:ARG:N	2.34	0.44
6:CQ:17:ARG:HH21	6:CQ:20:SER:HB3	1.82	0.44
6:GQ:17:ARG:HH21	6:GQ:20:SER:HB3	1.82	0.44
7:JQ:117:TYR:O	7:JQ:122:VAL:N	2.44	0.44
6:MR:147:GLN:NE2	29:PR:201:PEB:O2C	2.46	0.44
6:WR:5:ILE:HA	6:WR:8:VAL:CG2	2.47	0.44
6:WR:43:LYS:O	29:WR:202:PEB:CBD	2.65	0.44
1:X1:124:THR:HA	1:X1:128:PHE:HB3	1.99	0.44
1:X1:222:THR:HG21	7:T1:115:GLU:HG3	2.00	0.44
1:X1:364:THR:HG23	5:D1:111:ASN:HD21	1.83	0.44
5:F1:77:ARG:NH1	5:F1:78:ARG:HG2	2.33	0.44
5:N1:38:LEU:HD12	29:N1:1002:PEB:C3D	2.46	0.44
6:Z1:55:ALA:HB2	6:Z1:134:THR:CG2	2.47	0.44
7:e1:173:GLY:O	7:e1:177:SER:OG	2.32	0.44
8:e2:103:VAL:HG11	8:e2:134:VAL:HG12	1.98	0.44
7:N2:124:THR:O	7:N2:128:ILE:HG13	2.18	0.44
6:Q2:115:GLU:N	6:Q2:118:ARG:HH21	2.14	0.44
7:T2:106:GLU:O	7:T2:111:ASN:HB3	2.12	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W2:59:CYS:HB2	6:W2:130:SER:HB3	2.00	0.44
7:X2:3:ASP:H	7:X2:6:SER:HG	1.61	0.44
7:H3:144:ASN:ND2	7:H3:151:MET:O	2.46	0.44
6:B4:156:LEU:O	6:B4:160:ILE:HG13	2.17	0.44
29:C4:202:PEB:C4D	6:D4:33:ARG:CZ	2.89	0.44
7:E4:109:CYS:O	7:E4:113:LEU:HB2	2.18	0.44
7:G4:58:GLY:HA2	7:G4:61:CYS:SG	2.54	0.44
7:G4:71:GLY:O	7:G4:73:CYS:N	2.46	0.44
7:G4:147:THR:HG23	29:G4:203:PEB:CBB	2.48	0.44
6:J4:29:GLY:O	6:J4:32:GLN:OE1	2.35	0.44
7:K4:157:ASP:OD1	7:K4:159:THR:HG23	2.18	0.44
6:L4:55:ALA:O	6:L4:58:ALA:N	2.45	0.44
7:M4:102:ALA:HB1	7:M4:105:LEU:HB2	1.99	0.44
7:I5:7:ARG:NE	28:bP:138:LEU:HD21	2.22	0.44
7:I5:7:ARG:CA	28:bP:132:PRO:HA	2.47	0.44
13:k6:102:TYR:CE2	6:Q7:69:PRO:CG	2.90	0.44
2:A7:70:ALA:HB3	7:Y7:115:GLU:HB2	2.00	0.44
5:H7:33:GLU:O	5:H7:35:ASN:N	2.50	0.44
5:N7:33:GLU:O	5:N7:35:ASN:N	2.50	0.44
6:O7:34:SER:HA	6:O7:37:ARG:HG2	2.00	0.44
7:c7:54:ASP:OD2	7:c7:137:GLN:NE2	2.50	0.44
6:d7:34:SER:HA	6:d7:37:ARG:HG2	2.00	0.44
6:f7:22:SER:O	6:f7:26:SER:OG	2.35	0.44
7:k7:54:ASP:OD2	7:k7:137:GLN:NE2	2.50	0.44
7:L8:59:MET:HE2	7:L8:59:MET:HB3	1.84	0.44
2:A9:70:ALA:HB3	7:Y9:115:GLU:HB2	2.00	0.44
3:B9:7:LYS:NZ	4:I9:1:MET:N	2.65	0.44
4:C9:97:TYR:O	4:C9:101:VAL:HB	2.16	0.44
5:D9:145:THR:OG1	5:D9:146:THR:N	2.50	0.44
6:Q9:34:SER:HA	6:Q9:37:ARG:HG2	2.00	0.44
6:W9:142:ARG:NE	29:W9:202:PEB:C4A	2.80	0.44
6:EA:3:SER:N	6:EA:6:THR:OG1	2.50	0.44
7:HA:20:GLY:O	7:HA:24:LEU:CB	2.65	0.44
6:KA:54:GLU:HG3	6:KA:133:TYR:HE2	1.82	0.44
7:LA:65:GLY:O	7:LA:68:SER:OG	2.35	0.44
14:MA:151:LYS:HA	14:MA:151:LYS:HD3	1.83	0.44
6:EB:50:ALA:HB1	29:EB:202:PEB:HBC1	2.00	0.44
18:MC:240:ARG:NE	6:SF:133:TYR:CE1	2.85	0.44
18:MC:241:ALA:HB3	6:SF:137:ARG:NH1	2.32	0.44
18:MC:304:TRP:O	18:MC:304:TRP:CG	2.69	0.44
10:dD:96:PHE:O	10:dD:99:GLN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:dD:202:GLU:OE2	10:dD:206:ARG:NE	2.50	0.44
7:CD:41:VAL:O	7:CD:45:VAL:HG12	2.18	0.44
7:CD:67:ILE:O	7:CD:74:TYR:HD1	2.00	0.44
6:DD:75:ASN:OD1	6:DD:75:ASN:C	2.60	0.44
6:DD:161:ASN:N	6:DD:161:ASN:OD1	2.47	0.44
7:GD:131:VAL:HG21	7:GD:172:VAL:HG13	1.99	0.44
7:ID:109:CYS:O	7:ID:113:LEU:HB2	2.17	0.44
7:ID:131:VAL:HG21	7:ID:172:VAL:HG13	2.00	0.44
7:KD:136:ALA:CB	29:KD:203:PEB:CGC	2.95	0.44
7:MD:41:VAL:O	7:MD:45:VAL:HG12	2.18	0.44
7:BE:75:THR:HG22	7:BE:77:ARG:H	1.82	0.44
6:CE:2:LYS:HA	6:CE:2:LYS:HD3	1.84	0.44
7:LE:125:ASN:OD1	7:LE:125:ASN:N	2.48	0.44
18:ME:303:PHE:CZ	6:gL:53:LYS:HG3	2.48	0.44
1:XF:105:LYS:HG2	7:aF:88:ILE:CD1	2.48	0.44
4:EF:28:ASN:ND2	29:FF:1002:PEB:OD	2.50	0.44
4:KF:117:GLU:OE1	4:KF:120:ARG:NH2	2.46	0.44
7:RF:6:SER:O	7:RF:10:VAL:HG13	2.17	0.44
7:VF:3:ASP:OD1	7:VF:6:SER:OG	2.30	0.44
7:VF:68:SER:HB2	7:VF:69:PRO:HD2	2.00	0.44
6:hF:142:ARG:HH22	29:hF:202:PEB:HNA	1.65	0.44
7:mF:6:SER:O	7:mF:10:VAL:HG13	2.17	0.44
6:AG:37:ARG:NH1	6:AG:100:GLY:H	2.16	0.44
6:EG:93:VAL:HG21	6:EG:156:LEU:HD23	1.99	0.44
6:GG:114:ARG:CG	6:IG:114:ARG:NH1	2.79	0.44
6:KG:37:ARG:NH1	6:KG:100:GLY:H	2.16	0.44
29:KG:202:PEB:OA	29:KL:202:PEB:O2B	2.35	0.44
7:TI:68:SER:CB	7:TI:69:PRO:HD2	2.40	0.44
7:cI:6:SER:O	7:cI:10:VAL:HG13	2.17	0.44
6:IJ:106:ASP:HA	6:IJ:110:ILE:HB	2.00	0.44
7:LJ:131:VAL:HG13	7:LJ:169:PHE:HD1	1.83	0.44
7:NJ:1:MET:HE3	7:NJ:104:VAL:HB	1.99	0.44
7:RJ:131:VAL:HG13	7:RJ:169:PHE:HD1	1.83	0.44
6:UJ:99:VAL:O	6:UJ:99:VAL:HG12	2.18	0.44
6:UJ:139:CYS:HB3	29:UJ:202:PEB:H3A1	1.72	0.44
7:VJ:1:MET:HE3	7:VJ:104:VAL:HB	1.99	0.44
7:XJ:131:VAL:HG13	7:XJ:169:PHE:HD1	1.83	0.44
7:ZJ:84:ARG:NH2	7:ZJ:85:ASP:OD1	2.50	0.44
7:ZJ:111:ASN:ND2	16:xJ:39:LEU:HD22	2.31	0.44
7:bJ:1:MET:HE3	7:bJ:104:VAL:HB	1.99	0.44
7:hJ:129:ARG:HA	7:hJ:129:ARG:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:jJ:35:ASN:OD1	29:jJ:202:PEB:ND	2.48	0.44
6:mJ:106:ASP:HA	6:mJ:110:ILE:HB	2.00	0.44
6:sJ:43:LYS:HA	6:sJ:43:LYS:HD2	1.67	0.44
7:tJ:38:LEU:HD13	6:uJ:33:ARG:HH22	1.82	0.44
17:yJ:137:ARG:HG3	17:yJ:142:LYS:HG2	1.99	0.44
5:JK:17:GLU:CB	15:bM:335:ILE:HG12	2.41	0.44
5:JK:77:ARG:NH1	5:JK:78:ARG:HG2	2.33	0.44
5:LK:36:GLN:NE2	29:LK:1002:PEB:HMB3	2.19	0.44
6:ZK:55:ALA:HB2	6:ZK:134:THR:CG2	2.47	0.44
6:bK:157:ASP:OD2	7:eK:149:ARG:NH2	2.51	0.44
7:kK:160:SER:HA	7:kK:163:SER:OG	2.18	0.44
7:FL:35:ASN:ND2	29:FL:202:PEB:CBC	2.81	0.44
6:GL:43:LYS:HD2	6:GL:43:LYS:HA	1.67	0.44
29:IL:203:PEB:ND	7:LL:35:ASN:OD1	2.48	0.44
7:LL:26:ALA:CA	28:bP:231:ILE:HD11	2.43	0.44
7:NL:84:ARG:NH2	7:NL:85:ASP:OD1	2.50	0.44
7:TL:124:THR:O	7:TL:127:SER:OG	2.26	0.44
7:dL:84:ARG:NH2	7:dL:85:ASP:OD1	2.50	0.44
6:kL:20:SER:HB2	6:mL:102:THR:HG21	2.00	0.44
6:kL:101:GLY:HA2	6:mL:22:SER:OG	2.17	0.44
7:nL:1:MET:HE3	7:nL:104:VAL:HB	1.99	0.44
7:nL:91:ARG:CZ	16:xL:203:VAL:O	2.61	0.44
16:wL:179:ALA:HB1	16:xL:37:THR:OG1	2.01	0.44
6:CM:6:THR:HG22	7:DM:1:MET:CE	2.48	0.44
6:KM:13:ASP:OD2	7:LM:108:ARG:NH1	2.50	0.44
6:KM:48:HIS:CD2	6:KM:48:HIS:O	2.70	0.44
7:PM:57:SER:O	7:PM:61:CYS:SG	2.59	0.44
7:RM:140:ALA:HA	7:RM:145:THR:OG1	2.18	0.44
7:XM:10:VAL:O	7:XM:10:VAL:HG12	2.16	0.44
6:AN:39:GLU:C	6:AN:39:GLU:CD	2.85	0.44
6:EN:33:ARG:HG3	6:GN:25:GLU:OE1	2.17	0.44
7:JN:106:GLU:HA	7:JN:110:LEU:HD12	1.99	0.44
6:KN:81:LYS:HE2	6:KN:84:ARG:HH21	1.82	0.44
6:EO:40:ALA:HB2	6:EO:148:ALA:HB1	1.99	0.44
7:JO:59:MET:HE3	7:JO:59:MET:HB3	1.85	0.44
7:MO:54:ASP:HB3	7:MO:137:GLN:HE22	1.83	0.44
25:YP:266:LYS:O	25:YP:269:LEU:HG	2.18	0.44
25:YP:583:TYR:HD2	25:YP:586:LYS:HG3	1.82	0.44
21:dP:94:TYR:CE2	20:eP:12:ASP:HB2	2.53	0.44
21:fP:100:ASP:OD1	21:fP:101:PRO:HD2	2.18	0.44
20:pP:57:GLN:HB2	20:pP:132:CYS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:rP:36:ARG:HG2	26:2P:120:PHE:CE2	2.53	0.44
20:rP:47:ARG:HD3	21:wP:18:TYR:OH	2.16	0.44
20:tP:17:TYR:HE1	27:3P:195:THR:HA	1.82	0.44
27:3P:84:THR:HG23	27:3P:88:ALA:O	2.18	0.44
6:EQ:2:LYS:NZ	14:MQ:194:ILE:HG12	2.33	0.44
6:EQ:150:VAL:O	6:EQ:153:SER:OG	2.29	0.44
6:GQ:128:VAL:HG11	6:GQ:164:SER:HB3	1.99	0.44
7:HQ:40:ALA:HB2	7:HQ:161:LEU:HD23	1.99	0.44
7:HQ:135:LYS:NZ	7:HQ:166:ALA:O	2.50	0.44
7:JQ:40:ALA:HB2	7:JQ:161:LEU:HD23	1.99	0.44
6:KQ:37:ARG:NH1	6:KQ:100:GLY:H	2.16	0.44
8:eR:75:MET:SD	29:NR:201:PEB:C2D	3.05	0.44
7:PR:1:MET:HG3	7:PR:2:LEU:N	2.33	0.44
6:QR:59:CYS:HB2	6:QR:130:SER:HB3	2.00	0.44
1:X1:173:LYS:HA	1:X1:173:LYS:HD3	1.79	0.44
4:M1:2:LYS:H	4:M1:105:GLY:HA3	1.82	0.44
7:a1:115:GLU:HA	7:a1:118:ILE:HG12	2.00	0.44
7:P2:84:ARG:HG2	7:P2:88:ILE:HD11	1.98	0.44
6:Q2:37:ARG:NH1	6:Q2:98:VAL:O	2.48	0.44
6:Q2:62:LYS:HG2	6:Q2:63:TYR:CE1	2.52	0.44
7:T2:123:PRO:CB	6:U7:69:PRO:CG	2.66	0.44
7:X2:124:THR:O	7:X2:128:ILE:HG13	2.18	0.44
6:I3:142:ARG:HB3	6:I3:143:ASP:H	1.59	0.44
7:L3:107:ASP:HA	7:L3:111:ASN:HB2	2.00	0.44
7:M3:115:GLU:HA	7:M3:118:ILE:HG12	2.00	0.44
10:d4:283:ARG:O	10:d4:284:LEU:HB2	2.17	0.44
7:C4:157:ASP:OD1	7:C4:159:THR:HG23	2.18	0.44
7:E4:111:ASN:OD1	7:E4:111:ASN:N	2.34	0.44
7:E4:125:ASN:O	7:E4:129:ARG:HB2	2.17	0.44
6:H4:19:PRO:HA	6:H4:23:ASP:OD2	2.17	0.44
6:J4:81:LYS:HE2	6:J4:84:ARG:CZ	2.46	0.44
6:J4:81:LYS:NZ	6:J4:85:ASP:OD1	2.51	0.44
7:M4:2:LEU:HD22	7:M4:6:SER:HB2	2.00	0.44
7:M4:39:ASP:OD1	29:M4:202:PEB:C1D	2.66	0.44
7:M4:109:CYS:O	7:M4:113:LEU:HB2	2.17	0.44
7:I5:9:VAL:HG23	7:I5:9:VAL:O	2.18	0.44
6:J5:22:SER:OG	6:J5:23:ASP:N	2.50	0.44
6:J5:57:ASP:N	6:J5:57:ASP:OD1	2.43	0.44
7:K5:1:MET:HE3	7:K5:95:TYR:CE2	2.53	0.44
13:k6:158:LYS:HD2	13:k6:158:LYS:O	2.17	0.44
31:I7:1001:CYC:HBB2	5:L7:76:SER:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O7:5:ILE:O	6:O7:9:VAL:HG22	2.18	0.44
6:Q7:22:SER:O	6:Q7:26:SER:OG	2.35	0.44
6:Q7:34:SER:HA	6:Q7:37:ARG:HG2	2.00	0.44
7:T7:54:ASP:OD2	7:T7:137:GLN:NE2	2.50	0.44
6:W7:34:SER:HA	6:W7:37:ARG:HG2	2.00	0.44
6:h7:53:LYS:HA	6:h7:53:LYS:HD3	1.71	0.44
7:m7:53:SER:O	7:m7:57:SER:OG	2.28	0.44
7:C8:59:MET:HE2	7:C8:130:ALA:HB2	2.00	0.44
1:X9:126:LYS:NZ	1:X9:179:ASP:OD1	2.50	0.44
1:X9:211:ALA:N	7:a9:111:ASN:O	2.50	0.44
1:X9:219:MET:HE2	1:X9:219:MET:HB3	1.88	0.44
2:A9:194:MET:HE3	2:A9:194:MET:HB2	1.77	0.44
5:D9:66:LEU:C	5:D9:73:ALA:HB3	2.42	0.44
4:E9:97:TYR:O	4:E9:101:VAL:HB	2.16	0.44
4:E9:108:ASP:OD2	4:K9:17:ARG:NH1	2.45	0.44
5:F9:145:THR:OG1	5:F9:146:THR:N	2.50	0.44
5:L9:33:GLU:O	5:L9:35:ASN:N	2.50	0.44
7:R9:53:SER:O	7:R9:57:SER:OG	2.28	0.44
6:U9:83:TYR:CD2	13:kH:261:MET:CE	2.93	0.44
7:m9:54:ASP:OD2	7:m9:137:GLN:NE2	2.50	0.44
7:BA:65:GLY:O	7:BA:68:SER:OG	2.35	0.44
6:GA:3:SER:N	6:GA:6:THR:OG1	2.51	0.44
7:LA:113:LEU:O	7:LA:116:THR:OG1	2.29	0.44
15:bB:90:TYR:HE2	7:NB:81:ALA:HB1	1.82	0.44
7:TB:19:VAL:CG1	7:TB:24:LEU:CD2	2.93	0.44
7:XB:1:MET:HE3	7:XB:1:MET:HB2	1.89	0.44
18:MC:215:THR:O	18:MC:217:SER:C	2.54	0.44
10:dD:102:MET:SD	10:dD:107:GLU:OE2	2.76	0.44
6:BD:75:ASN:OD1	6:BD:75:ASN:C	2.60	0.44
7:GD:2:LEU:HD22	7:GD:6:SER:HB2	2.00	0.44
7:GD:125:ASN:O	7:GD:129:ARG:HB2	2.17	0.44
7:ID:88:ILE:CG2	29:ID:201:PEB:HAD1	2.42	0.44
6:JD:81:LYS:HE2	6:JD:84:ARG:CZ	2.46	0.44
7:KD:109:CYS:O	7:KD:113:LEU:HB2	2.17	0.44
7:MD:15:LYS:HB2	7:MD:15:LYS:HE2	1.64	0.44
7:BE:51:MET:HE3	7:BE:137:GLN:CD	2.43	0.44
7:HE:123:PRO:O	7:HE:126:SER:OG	2.35	0.44
29:HE:201:PEB:NB	29:HE:201:PEB:NC	2.65	0.44
7:LE:21:GLY:O	7:LE:25:GLN:NE2	2.41	0.44
18:ME:232:MET:CE	29:SI:202:PEB:HAB2	2.11	0.44
2:AF:107:THR:HG23	2:AF:108:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:JF:135:LYS:HZ2	27:3P:67:GLY:CA	2.25	0.44
7:RF:103:SER:O	7:RF:103:SER:OG	2.36	0.44
7:TF:115:GLU:HA	7:TF:118:ILE:HG12	1.99	0.44
7:iF:1:MET:SD	7:iF:104:VAL:HG21	2.57	0.44
6:lF:48:HIS:HA	6:lF:51:VAL:CG2	2.47	0.44
6:AG:125:SER:HB3	6:KG:121:ASN:HB3	1.99	0.44
6:AG:164:SER:O	7:DG:49:SER:HB2	2.18	0.44
6:IG:90:MET:H	6:IG:90:MET:HG3	1.53	0.44
14:MG:105:LYS:O	14:MG:106:ASP:HB2	2.18	0.44
1:XI:209:SER:OG	1:XI:210:MET:N	2.51	0.44
5:JI:37:ARG:NH1	5:JI:97:MET:O	2.47	0.44
7:VI:68:SER:HB2	7:VI:69:PRO:HD2	2.00	0.44
7:aI:115:GLU:HA	7:aI:118:ILE:HG12	1.99	0.44
7:iI:6:SER:O	7:iI:10:VAL:HG13	2.17	0.44
6:AJ:106:ASP:HA	6:AJ:110:ILE:HB	2.00	0.44
6:CJ:99:VAL:O	6:CJ:99:VAL:HG12	2.18	0.44
6:EJ:99:VAL:O	6:EJ:99:VAL:HG12	2.18	0.44
7:FJ:5:PHE:CE2	7:FJ:27:LEU:HD22	2.52	0.44
6:GJ:106:ASP:HA	6:GJ:110:ILE:HB	2.00	0.44
6:KJ:21:ASN:HA	6:KJ:24:LEU:HD12	1.98	0.44
6:OJ:106:ASP:HA	6:OJ:110:ILE:HB	2.00	0.44
6:aJ:106:ASP:HA	6:aJ:110:ILE:HB	2.00	0.44
6:gJ:106:ASP:HA	6:gJ:110:ILE:HB	2.00	0.44
6:iJ:106:ASP:HA	6:iJ:110:ILE:HB	2.00	0.44
7:nJ:92:TYR:OH	16:xJ:108:ARG:NH2	2.49	0.44
6:oJ:19:PRO:HG3	7:pJ:95:TYR:CD1	2.52	0.44
6:sJ:99:VAL:O	6:sJ:99:VAL:HG12	2.18	0.44
6:sJ:106:ASP:HA	6:sJ:110:ILE:HB	2.00	0.44
7:tJ:77:ARG:CZ	16:xJ:212:ARG:HH22	2.14	0.44
7:vJ:115:GLU:H	7:vJ:115:GLU:HG2	1.62	0.44
19:zJ:211:ARG:O	19:zJ:225:GLN:NE2	2.38	0.44
3:BK:169:GLN:NE2	5:NK:75:THR:OG1	2.51	0.44
4:EK:17:ARG:O	5:FK:95:TYR:OH	2.30	0.44
5:JK:8:VAL:CA	5:JK:11:GLN:OE1	2.66	0.44
4:MK:93:ARG:HD3	5:NK:18:PHE:HE1	1.81	0.44
7:TK:112:GLY:O	7:TK:116:THR:OG1	2.31	0.44
7:eK:115:GLU:HA	7:eK:118:ILE:HG12	2.00	0.44
7:FL:1:MET:HE3	7:FL:1:MET:HB2	1.80	0.44
7:JL:84:ARG:NH2	7:JL:85:ASP:OD1	2.50	0.44
6:OL:106:ASP:HA	6:OL:110:ILE:HB	2.00	0.44
6:QL:75:ASN:OD1	6:QL:78:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SL:43:LYS:HA	6:SL:43:LYS:HD2	1.60	0.44
7:TL:118:ILE:HA	7:TL:118:ILE:HD13	1.73	0.44
6:UL:76:GLN:HG3	6:UL:80:ASN:ND2	2.33	0.44
7:ZL:84:ARG:NH2	7:ZL:85:ASP:OD1	2.50	0.44
7:ZL:159:THR:O	7:ZL:163:SER:OG	2.24	0.44
6:kL:106:ASP:HA	6:kL:110:ILE:HB	2.00	0.44
6:uL:106:ASP:HA	6:uL:110:ILE:HB	2.00	0.44
19:zL:110:GLU:OE1	19:zL:144:ARG:NH2	2.51	0.44
6:IM:34:SER:OG	7:JM:31:ILE:HG21	2.18	0.44
6:IM:50:ALA:HB1	29:IM:202:PEB:HBC1	2.00	0.44
6:QM:50:ALA:HB1	29:QM:204:PEB:HBC1	2.00	0.44
6:UM:50:ALA:HB1	29:MQ:401:PEB:HBC1	2.00	0.44
6:WM:54:GLU:HG2	6:WM:133:TYR:CE2	2.31	0.44
29:iM:203:PEB:HBA2	29:iM:203:PEB:H2A1	1.86	0.44
6:jM:102:THR:OG1	6:IM:17:ARG:NH2	2.45	0.44
7:mM:97:LEU:HD13	7:mM:165:VAL:HB	1.98	0.44
7:BN:65:GLY:O	7:BN:68:SER:OG	2.35	0.44
7:DN:65:GLY:O	7:DN:68:SER:OG	2.35	0.44
6:EN:59:CYS:O	6:EN:63:TYR:N	2.46	0.44
7:FN:65:GLY:O	7:FN:68:SER:OG	2.35	0.44
6:GN:142:ARG:HE	6:GN:142:ARG:HB3	1.64	0.44
7:LN:82:CYS:HA	29:LN:201:PEB:CHA	2.48	0.44
7:DO:39:ASP:CG	29:DO:202:PEB:HMD1	2.40	0.44
20:AP:135:ASP:N	20:AP:135:ASP:OD1	2.51	0.44
21:LP:73:TYR:OH	20:NP:90:ARG:NH2	2.48	0.44
21:MP:96:MET:HE3	21:MP:96:MET:HB3	1.91	0.44
21:OP:68:PRO:HD3	22:VP:87:TRP:CH2	2.52	0.44
21:OP:100:ASP:OD1	21:OP:101:PRO:HD2	2.18	0.44
21:QP:64:ASP:HB2	21:QP:67:ARG:HH11	1.81	0.44
22:VP:90:ARG:O	22:VP:93:THR:OG1	2.34	0.44
25:YP:376:LEU:HA	25:YP:376:LEU:HD23	1.72	0.44
25:YP:761:MET:O	25:YP:765:LEU:HB2	2.17	0.44
25:YP:794:GLY:O	25:YP:841:ARG:HB3	2.17	0.44
26:ZP:58:ASP:OD1	26:ZP:59:ALA:N	2.51	0.44
20:iP:135:ASP:N	20:iP:135:ASP:OD1	2.51	0.44
21:nP:100:ASP:OD1	21:nP:101:PRO:HD2	2.18	0.44
21:uP:39:ARG:NH2	27:3P:140:CYS:SG	2.91	0.44
21:uP:82:ILE:HG13	26:2P:151:CYS:SG	2.57	0.44
23:yP:134:ARG:HH12	23:yP:138:LEU:HD21	1.81	0.44
25:1P:39:GLU:C	25:1P:42:GLN:H	2.26	0.44
28:4P:152:THR:O	28:4P:155:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AQ:157:ASP:HB2	7:DQ:46:SER:CA	2.39	0.44
7:DQ:40:ALA:HB2	7:DQ:161:LEU:HD23	1.99	0.44
6:EQ:2:LYS:NZ	14:MQ:194:ILE:CG1	2.81	0.44
6:EQ:105:LEU:HD23	6:EQ:110:ILE:HG12	2.00	0.44
6:GQ:105:LEU:HD23	6:GQ:110:ILE:HG12	1.99	0.44
6:IQ:90:MET:H	6:IQ:90:MET:HG3	1.53	0.44
6:IQ:135:ARG:HH12	6:IQ:160:ILE:HD12	1.83	0.44
14:MQ:132:LYS:HA	14:MQ:132:LYS:HD3	1.82	0.44
6:SR:97:LEU:HD12	6:SR:98:VAL:N	2.31	0.44
6:UR:59:CYS:HB2	6:UR:130:SER:HB3	1.99	0.44
5:H1:77:ARG:NH1	5:H1:78:ARG:HG2	2.33	0.44
7:Y1:115:GLU:HA	7:Y1:118:ILE:HG12	2.00	0.44
6:b1:157:ASP:OD2	7:e1:149:ARG:NH2	2.51	0.44
8:e2:182:TYR:HE1	8:e2:187:PHE:HB3	1.80	0.44
8:e2:226:ARG:O	8:e2:230:LEU:HG	2.17	0.44
6:Q2:37:ARG:HG2	6:Q2:97:LEU:O	2.18	0.44
6:U2:33:ARG:NH2	29:X2:201:PEB:C3D	2.80	0.44
7:X2:77:ARG:HG2	7:X2:77:ARG:HH11	1.82	0.44
9:O3:276:LYS:HE2	9:O3:276:LYS:HB2	1.83	0.44
10:d4:237:LEU:HD11	7:E4:2:LEU:HD21	2.00	0.44
6:B4:4:VAL:CG1	6:B4:26:SER:HB2	2.48	0.44
6:B4:19:PRO:HA	6:B4:23:ASP:OD2	2.17	0.44
6:D4:16:GLY:C	7:E4:91:ARG:HH22	2.26	0.44
6:D4:43:LYS:HD2	6:D4:43:LYS:HA	1.70	0.44
7:E4:88:ILE:HG21	29:E4:201:PEB:HAD1	1.98	0.44
7:I4:131:VAL:HG21	7:I4:172:VAL:HG13	2.00	0.44
7:M4:149:ARG:O	7:M4:150:LYS:HD2	2.18	0.44
7:I5:23:ASP:OD1	7:I5:23:ASP:N	2.51	0.44
7:K5:142:ILE:HG21	7:K5:162:ALA:CB	2.48	0.44
7:L5:92:TYR:OH	7:L5:108:ARG:CZ	2.66	0.44
7:C5:36:LYS:HD3	29:C5:202:PEB:CMB	2.48	0.44
13:k6:18:ARG:HG2	13:k6:18:ARG:NH1	2.32	0.44
5:F7:72:MEN:CA	5:F7:78:ARG:HH11	2.30	0.44
7:R7:54:ASP:OD2	7:R7:137:GLN:NE2	2.50	0.44
6:U7:22:SER:O	6:U7:26:SER:OG	2.35	0.44
6:W7:5:ILE:O	6:W7:9:VAL:HG22	2.18	0.44
6:Z7:149:GLY:O	6:Z7:153:SER:OG	2.29	0.44
6:b7:5:ILE:O	6:b7:9:VAL:HG22	2.18	0.44
6:l7:137:ARG:NH1	29:l7:202:PEB:NC	2.64	0.44
7:I8:11:ASN:H	7:I8:11:ASN:HD22	1.64	0.44
7:I8:25:GLN:HA	7:I8:28:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J8:22:SER:OG	6:J8:23:ASP:N	2.50	0.44
3:B9:207:ARG:HG2	3:B9:210:GLU:CD	2.43	0.44
5:H9:79:MET:HE2	5:H9:83:LEU:HG	2.00	0.44
6:O9:5:ILE:O	6:O9:9:VAL:HG22	2.18	0.44
6:S9:5:ILE:O	6:S9:9:VAL:HG22	2.18	0.44
6:W9:22:SER:O	6:W9:26:SER:OG	2.35	0.44
7:BA:106:GLU:HA	7:BA:110:LEU:HD12	1.99	0.44
7:DA:67:ILE:HD13	29:KA:201:PEB:HBC1	2.00	0.44
7:HA:82:CYS:HA	29:HA:201:PEB:CHA	2.48	0.44
7:JA:82:CYS:HA	29:JA:201:PEB:CHA	2.48	0.44
6:KA:110:ILE:HG23	6:KA:162:ALA:HB1	2.00	0.44
15:bB:153:ASP:OD1	15:bB:203:PRO:CG	2.51	0.44
6:QB:9:VAL:HG13	7:RB:95:TYR:CE1	2.52	0.44
6:QB:9:VAL:CG1	7:RB:95:TYR:CD1	3.00	0.44
6:AC:144:MET:HE3	6:AC:144:MET:HB3	1.66	0.44
10:dD:157:GLN:O	10:dD:160:GLN:HG3	2.18	0.44
10:dD:285:VAL:HG21	29:TI:202:PEB:O1B	2.17	0.44
7:CD:22:SER:OG	7:CD:23:ASP:OD1	2.36	0.44
6:DD:89:TYR:C	6:DD:90:MET:HE3	2.42	0.44
7:ED:67:ILE:O	7:ED:74:TYR:HD1	2.00	0.44
7:ED:76:ASN:HD21	6:LD:113:ALA:HB2	1.82	0.44
7:ED:102:ALA:HB2	7:ED:168:TYR:CD1	2.53	0.44
7:ED:157:ASP:OD1	7:ED:159:THR:HG23	2.18	0.44
6:HD:65:TYR:CZ	6:JD:65:TYR:CZ	3.06	0.44
6:HD:75:ASN:OD1	6:HD:75:ASN:C	2.60	0.44
7:ID:39:ASP:OD1	29:ID:202:PEB:C1D	2.66	0.44
7:ID:41:VAL:O	7:ID:45:VAL:HG12	2.18	0.44
6:JD:58:ALA:O	6:JD:61:ALA:HB3	2.18	0.44
6:JD:156:LEU:O	6:JD:160:ILE:HG13	2.17	0.44
7:KD:28:LYS:HB2	7:KD:28:LYS:HE2	1.56	0.44
7:BE:51:MET:HE3	7:BE:137:GLN:CB	2.37	0.44
29:DE:201:PEB:NB	29:DE:201:PEB:NC	2.65	0.44
18:ME:232:MET:CG	18:ME:237:PHE:N	2.79	0.44
4:EF:117:GLU:OE1	4:EF:120:ARG:NH2	2.45	0.44
5:JF:154:SER:HB3	27:3P:63:ARG:HD3	1.99	0.44
4:KF:106:PRO:HG3	5:LF:9:VAL:HG11	1.98	0.44
7:RF:56:VAL:HG12	7:RF:79:MET:HE1	2.00	0.44
7:VF:115:GLU:HA	7:VF:118:ILE:HG12	1.99	0.44
7:eF:24:LEU:HD23	7:eF:24:LEU:HA	1.89	0.44
6:jF:142:ARG:HH22	29:jF:202:PEB:HNA	1.65	0.44
6:AG:81:LYS:HG2	6:AG:84:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:137:GLN:HE22	29:BG:203:PEB:CHA	2.31	0.44
7:DG:40:ALA:HB2	7:DG:161:LEU:HD23	1.99	0.44
6:EG:105:LEU:HD23	6:EG:110:ILE:HG12	2.00	0.44
6:GG:54:GLU:OE1	6:GG:137:ARG:NH2	2.37	0.44
6:GG:114:ARG:HA	6:GG:114:ARG:HD3	1.70	0.44
13:kH:239:ALA:O	13:kH:242:THR:HG23	2.17	0.44
2:AI:73:ILE:HD12	2:AI:73:ILE:HA	1.86	0.44
6:II:48:HIS:HA	6:II:51:VAL:CG2	2.47	0.44
7:FJ:113:LEU:HD13	29:FJ:201:PEB:HMD1	2.00	0.44
7:HJ:111:ASN:ND2	7:HJ:111:ASN:C	2.73	0.44
6:KJ:78:LYS:HA	6:KJ:78:LYS:HD2	1.79	0.44
7:LJ:64:PRO:HD3	19:zJ:368:ALA:HB1	1.99	0.44
7:LJ:84:ARG:NH2	7:LJ:85:ASP:OD1	2.50	0.44
6:MJ:106:ASP:HA	6:MJ:110:ILE:HB	2.00	0.44
7:VJ:84:ARG:NH2	7:VJ:85:ASP:OD1	2.50	0.44
7:nJ:88:ILE:CD1	16:xJ:203:VAL:CB	2.82	0.44
7:vJ:84:ARG:NH2	7:vJ:85:ASP:OD1	2.50	0.44
19:zJ:323:MET:HE2	20:pP:48:GLU:O	2.18	0.44
3:BK:58:HIS:NE2	5:LK:81:ALA:HA	2.33	0.44
4:CK:73:ALA:HA	31:CK:1001:CYC:HBD2	2.00	0.44
4:CK:142:LEU:CB	4:CK:147:ALA:HB2	2.47	0.44
5:FK:20:SER:OG	5:FK:23:GLN:NE2	2.50	0.44
4:KK:73:ALA:HA	31:KK:1001:CYC:HBD2	2.00	0.44
5:LK:139:VAL:O	5:LK:139:VAL:HG12	2.17	0.44
4:MK:111:LEU:HD23	31:MK:1001:CYC:CBB	2.48	0.44
5:NK:106:ASP:HA	5:NK:110:LEU:HB2	1.98	0.44
6:OK:52:VAL:CG1	6:OK:86:VAL:HG12	2.33	0.44
6:dK:33:ARG:O	6:dK:37:ARG:HB2	2.18	0.44
6:CL:106:ASP:HA	6:CL:110:ILE:HB	2.00	0.44
7:FL:5:PHE:CE2	7:FL:27:LEU:HD22	2.52	0.44
7:HL:122:VAL:HG13	29:zL:501:PEB:C1A	2.48	0.44
6:OL:43:LYS:HA	6:OL:43:LYS:HD2	1.67	0.44
7:PL:84:ARG:NH2	7:PL:85:ASP:OD1	2.50	0.44
7:RL:1:MET:HE3	7:RL:104:VAL:HB	1.99	0.44
6:SL:71:GLU:HB3	6:SL:72:ALA:H	1.62	0.44
7:TL:131:VAL:HG13	7:TL:169:PHE:HD1	1.83	0.44
7:ZL:131:VAL:HG13	7:ZL:169:PHE:HD1	1.83	0.44
7:dL:129:ARG:HA	7:dL:129:ARG:HD2	1.82	0.44
7:fL:84:ARG:NH2	7:fL:85:ASP:OD1	2.50	0.44
6:oL:18:PHE:HA	7:pL:91:ARG:HG3	2.00	0.44
6:sL:13:ASP:OD2	7:tL:108:ARG:NH1	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wL:102:ALA:HB1	16:wL:105:ARG:HD2	1.97	0.44
16:wL:170:GLU:O	16:xL:52:THR:HG22	2.15	0.44
15:bM:335:ILE:CB	15:bM:340:GLU:CG	2.91	0.44
15:bM:340:GLU:HG3	15:bM:341:ALA:H	1.83	0.44
7:DM:50:CYS:HB3	29:DM:203:PEB:H3A1	1.99	0.44
6:GM:48:HIS:O	6:GM:52:VAL:HG23	2.18	0.44
6:GM:130:SER:O	6:GM:134:THR:OG1	2.34	0.44
6:SM:48:HIS:CD2	6:SM:48:HIS:O	2.70	0.44
6:CN:110:ILE:HG23	6:CN:162:ALA:HB1	2.00	0.44
7:HN:113:LEU:O	7:HN:116:THR:OG1	2.29	0.44
6:IN:88:HIS:CD2	6:IN:91:ARG:HH21	2.36	0.44
6:IN:96:CYS:SG	6:IN:105:LEU:N	2.90	0.44
7:JN:147:THR:OG1	29:JN:203:PEB:OA	2.27	0.44
14:MN:223:CYS:HB2	29:MN:401:PEB:HBA1	1.82	0.44
7:LO:107:ASP:HA	7:LO:111:ASN:HB2	2.00	0.44
7:NO:115:GLU:HA	7:NO:118:ILE:HG12	2.00	0.44
21:DP:100:ASP:OD1	21:DP:101:PRO:HD2	2.18	0.44
21:FP:100:ASP:OD1	21:FP:101:PRO:HD2	2.18	0.44
21:BP:100:ASP:OD1	21:BP:101:PRO:HD2	2.18	0.44
21:HP:97:LEU:HD11	25:YP:35:LEU:HD22	1.99	0.44
20:JP:57:GLN:HB2	20:JP:132:CYS:HB3	2.00	0.44
20:JP:135:ASP:N	20:JP:135:ASP:OD1	2.51	0.44
22:VP:2:SER:OG	22:VP:3:LEU:N	2.51	0.44
22:VP:43:LEU:HD23	22:VP:43:LEU:HA	1.81	0.44
25:YP:454:PHE:HB3	25:YP:536:GLY:CA	2.46	0.44
27:aP:245:GLU:HG2	27:aP:246:GLY:N	2.33	0.44
20:cP:57:GLN:HB2	20:cP:132:CYS:HB3	2.00	0.44
21:hP:128:GLN:HE22	23:yP:73:ALA:N	2.14	0.44
6:CQ:37:ARG:NH1	6:CQ:100:GLY:H	2.16	0.44
6:CQ:128:VAL:HG11	6:CQ:164:SER:HB3	1.99	0.44
6:EQ:93:VAL:HG21	6:EQ:156:LEU:HD23	1.99	0.44
6:GQ:140:VAL:HG22	6:GQ:145:SER:HA	2.00	0.44
6:IQ:93:VAL:HG21	6:IQ:156:LEU:HD23	1.99	0.44
6:IQ:105:LEU:HD23	6:IQ:110:ILE:HG12	2.00	0.44
6:KQ:81:LYS:HG2	6:KQ:84:ARG:HE	1.83	0.44
8:eR:57:PHE:CD1	8:eR:57:PHE:O	2.70	0.44
8:eR:75:MET:O	8:eR:78:LEU:HG	2.17	0.44
6:MR:138:LEU:CD1	6:MR:144:MET:HE3	2.48	0.44
6:SR:90:MET:HE1	6:SR:156:LEU:HD21	2.00	0.44
6:UR:116:VAL:CG1	6:UR:120:LEU:HD12	2.41	0.44
6:WR:115:GLU:N	6:WR:118:ARG:HH21	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:XR:1:MET:HG3	7:XR:2:LEU:N	2.33	0.44
1:X1:63:LEU:HD23	1:X1:66:PHE:HD2	1.82	0.44
5:H1:139:VAL:O	5:H1:139:VAL:HG12	2.17	0.44
6:U1:137:ARG:HG3	29:U1:203:PEB:HHC1	2.00	0.44
7:a1:112:GLY:O	7:a1:116:THR:OG1	2.31	0.44
7:e1:112:GLY:O	7:e1:116:THR:OG1	2.31	0.44
7:k1:115:GLU:HA	7:k1:118:ILE:HG12	2.00	0.44
7:m1:115:GLU:HA	7:m1:118:ILE:HG12	2.00	0.44
8:e2:75:MET:O	8:e2:78:LEU:HG	2.17	0.44
8:e2:268:PHE:CG	7:P2:107:ASP:OD2	2.70	0.44
8:e2:301:PHE:CE1	5:F7:17:GLU:HB2	2.52	0.44
6:O2:75:ASN:CA	7:L5:76:ASN:ND2	2.80	0.44
7:P2:124:THR:O	7:P2:128:ILE:HG13	2.18	0.44
6:Q2:140:VAL:CG1	6:Q2:146:ALA:HA	2.48	0.44
6:U2:59:CYS:HB2	6:U2:130:SER:HB3	1.99	0.44
7:C4:39:ASP:OD1	29:C4:202:PEB:C1D	2.66	0.44
29:C4:202:PEB:O1B	29:C4:202:PEB:HHC1	2.18	0.44
7:E4:151:MET:HE2	7:E4:151:MET:HA	1.99	0.44
6:F4:81:LYS:CB	6:F4:84:ARG:HD2	2.33	0.44
6:H4:43:LYS:HA	6:H4:43:LYS:HD2	1.70	0.44
6:H4:113:ALA:HB2	7:M4:76:ASN:HD22	1.73	0.44
7:I4:22:SER:OG	7:I4:23:ASP:OD1	2.36	0.44
6:J4:43:LYS:HA	6:J4:43:LYS:HD2	1.70	0.44
7:K4:22:SER:OG	7:K4:23:ASP:OD1	2.36	0.44
7:K4:102:ALA:HB2	7:K4:168:TYR:CD1	2.53	0.44
7:M4:71:GLY:O	7:M4:73:CYS:N	2.45	0.44
7:I5:11:ASN:H	7:I5:11:ASN:HD22	1.64	0.44
7:I5:23:ASP:HB3	19:zL:295:LYS:HG3	1.98	0.44
7:L5:52:VAL:HG12	13:k6:231:ALA:CB	2.48	0.44
12:E5:158:ASP:OD1	12:E5:158:ASP:N	2.50	0.44
12:E5:164:VAL:HG23	29:kI:203:PEB:C4D	2.48	0.44
6:S7:5:ILE:O	6:S7:9:VAL:HG22	2.18	0.44
6:j7:22:SER:O	6:j7:26:SER:OG	2.35	0.44
7:m7:102:ALA:HB2	7:m7:168:TYR:CE1	2.53	0.44
7:G8:110:LEU:HD21	7:G8:172:VAL:HG12	2.00	0.44
7:I8:7:ARG:NH2	28:4P:88:LEU:HD23	2.30	0.44
7:K8:142:ILE:HG21	7:K8:162:ALA:CB	2.48	0.44
11:D8:253:TYR:HD1	11:D8:261:ALA:HB2	1.82	0.44
12:E8:72:MET:O	5:HF:152:ASP:HB2	2.18	0.44
5:F9:33:GLU:O	5:F9:35:ASN:N	2.50	0.44
5:H9:140:ALA:CB	13:kH:183:TYR:CB	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S9:33:ARG:HH21	29:V9:202:PEB:HAD1	1.82	0.44
6:U9:28:GLN:HB2	29:V9:202:PEB:HBD2	1.99	0.44
7:c9:54:ASP:OD2	7:c9:137:GLN:NE2	2.50	0.44
6:d9:5:ILE:O	6:d9:9:VAL:HG22	2.18	0.44
6:j9:53:LYS:HD3	6:j9:53:LYS:HA	1.71	0.44
7:BA:20:GLY:O	7:BA:24:LEU:CB	2.63	0.44
7:DA:20:GLY:O	7:DA:24:LEU:CB	2.65	0.44
7:DA:43:SER:OG	7:DA:141:PHE:O	2.33	0.44
7:FA:82:CYS:HA	29:FA:201:PEB:CHA	2.48	0.44
6:IA:39:GLU:CD	6:IA:39:GLU:C	2.86	0.44
7:JA:115:GLU:HA	7:JA:118:ILE:HG12	2.00	0.44
6:KA:3:SER:N	6:KA:6:THR:OG1	2.51	0.44
7:LA:20:GLY:O	7:LA:24:LEU:CB	2.66	0.44
14:MA:101:LEU:N	14:MA:101:LEU:CD2	2.73	0.44
15:bB:254:PRO:HA	7:FB:115:GLU:OE2	2.18	0.44
15:bB:346:ILE:HD13	15:bB:346:ILE:N	2.33	0.44
7:JB:149:ARG:NH2	7:JB:151:MET:HE3	2.33	0.44
7:VB:110:LEU:HD21	7:VB:172:VAL:HG13	2.00	0.44
6:WB:50:ALA:HB1	29:WB:202:PEB:HBC1	2.00	0.44
7:eB:110:LEU:HD21	7:eB:172:VAL:HG13	2.00	0.44
6:AC:134:THR:OG1	6:AC:156:LEU:CD2	2.66	0.44
6:CC:18:PHE:CD2	7:DC:91:ARG:HG3	2.53	0.44
7:DC:123:PRO:O	7:DC:126:SER:OG	2.34	0.44
7:FC:75:THR:HG22	7:FC:77:ARG:H	1.82	0.44
7:JC:51:MET:HE3	7:JC:137:GLN:CD	2.43	0.44
7:LC:51:MET:CE	7:LC:137:GLN:HB2	2.37	0.44
18:MC:312:LEU:CD1	18:MC:313:THR:CG2	2.86	0.44
10:dD:124:ARG:HB3	10:dD:124:ARG:CZ	2.48	0.44
29:dD:401:PEB:HAD1	7:ED:88:ILE:HG21	1.98	0.44
6:BD:17:ARG:NH2	6:BD:17:ARG:HB2	2.32	0.44
6:BD:87:ASP:HA	6:BD:90:MET:HG2	2.00	0.44
6:BD:113:ALA:O	6:BD:114:ARG:C	2.61	0.44
6:DD:29:GLY:O	6:DD:32:GLN:OE1	2.35	0.44
7:GD:149:ARG:O	7:GD:150:LYS:HD2	2.18	0.44
6:HD:19:PRO:HA	6:HD:23:ASP:OD2	2.17	0.44
6:HD:87:ASP:HA	6:HD:90:MET:HG2	2.00	0.44
7:ID:136:ALA:CB	29:ID:203:PEB:CGC	2.96	0.44
29:ID:202:PEB:HHB1	29:ID:202:PEB:O1B	2.18	0.44
29:MD:202:PEB:O1B	29:MD:202:PEB:HHB1	2.18	0.44
7:BE:24:LEU:H	7:BE:24:LEU:HG	1.60	0.44
6:CE:92:LEU:HD11	6:CE:108:TRP:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LE:51:MET:HE3	7:LE:137:GLN:CD	2.43	0.44
18:ME:65:LYS:HB2	18:ME:65:LYS:HE2	1.45	0.44
3:BF:99:ASN:OD1	5:NF:108:ARG:NH2	2.50	0.44
7:YF:6:SER:O	7:YF:10:VAL:HG13	2.17	0.44
6:CG:37:ARG:NH1	6:CG:100:GLY:H	2.16	0.44
6:CG:140:VAL:HG22	6:CG:145:SER:HA	2.00	0.44
6:EG:140:VAL:HG22	6:EG:145:SER:HA	2.00	0.44
6:GG:17:ARG:HH21	6:GG:20:SER:HB3	1.82	0.44
6:GG:37:ARG:NH1	6:GG:100:GLY:H	2.16	0.44
7:JG:135:LYS:NZ	7:JG:166:ALA:O	2.50	0.44
13:kH:186:ALA:CB	13:kH:200:LEU:HG	2.48	0.44
4:MI:69:MET:HE3	4:MI:69:MET:HB2	1.87	0.44
7:RI:115:GLU:HA	7:RI:118:ILE:HG12	1.99	0.44
6:hI:142:ARG:HH22	29:hI:202:PEB:HNA	1.65	0.44
7:kI:115:GLU:HA	7:kI:118:ILE:HG12	1.99	0.44
7:DJ:131:VAL:HG13	7:DJ:169:PHE:HD1	1.83	0.44
7:FJ:84:ARG:NH2	7:FJ:85:ASP:OD1	2.50	0.44
7:LJ:1:MET:HE3	7:LJ:1:MET:HB2	1.80	0.44
6:UJ:106:ASP:HA	6:UJ:110:ILE:HB	2.00	0.44
7:fJ:131:VAL:HG13	7:fJ:169:PHE:HD1	1.83	0.44
6:mJ:95:TYR:HB3	7:nJ:9:VAL:HG13	1.98	0.44
6:oJ:106:ASP:HA	6:oJ:110:ILE:HB	2.00	0.44
16:wJ:105:ARG:NH1	29:wJ:303:PEB:CAB	2.47	0.44
16:wJ:169:PRO:HB3	16:wJ:174:GLU:HB2	1.99	0.44
16:xJ:64:MET:HE1	16:xJ:141:MET:HE1	2.00	0.44
2:AK:222:LYS:HG3	6:IK:114:ARG:HH12	1.83	0.44
3:BK:199:TRP:HD1	5:LK:70:GLY:O	2.01	0.44
3:BK:200:ALA:O	3:BK:201:SER:CB	2.63	0.44
5:DK:77:ARG:NH1	5:DK:78:ARG:HG2	2.33	0.44
4:EK:116:GLU:OE1	4:EK:116:GLU:HA	2.18	0.44
4:EK:143:SER:HA	4:EK:147:ALA:HB2	1.99	0.44
5:HK:106:ASP:HA	5:HK:110:LEU:HB2	1.98	0.44
4:IK:2:LYS:H	4:IK:105:GLY:HA3	1.82	0.44
5:JK:35:ASN:HA	5:JK:38:LEU:HD12	1.99	0.44
5:NK:38:LEU:CD1	29:NK:1002:PEB:C3D	2.96	0.44
5:NK:77:ARG:NH1	5:NK:78:ARG:HG2	2.33	0.44
7:RK:70:GLY:O	7:kK:125:ASN:ND2	2.51	0.44
7:gK:124:THR:O	7:gK:127:SER:OG	2.23	0.44
6:EL:106:ASP:HA	6:EL:110:ILE:HB	2.00	0.44
7:FL:128:ILE:HD13	7:FL:128:ILE:HA	1.72	0.44
7:LL:112:GLY:O	7:LL:116:THR:OG1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LL:131:VAL:HG13	7:LL:169:PHE:HD1	1.83	0.44
7:TL:27:LEU:O	7:TL:31:ILE:CG1	2.60	0.44
6:UL:99:VAL:O	6:UL:99:VAL:HG12	2.18	0.44
6:WL:99:VAL:O	6:WL:99:VAL:HG12	2.18	0.44
6:cL:106:ASP:HA	6:cL:110:ILE:HB	2.00	0.44
6:eL:68:ASN:CB	6:eL:71:GLU:OE2	2.60	0.44
7:fL:1:MET:HE3	7:fL:104:VAL:HB	1.99	0.44
6:iL:71:GLU:HB3	6:iL:72:ALA:H	1.56	0.44
7:lL:16:ALA:CB	7:tL:69:PRO:HG2	2.39	0.44
6:mL:106:ASP:HA	6:mL:110:ILE:HB	2.00	0.44
7:vL:1:MET:HE3	7:vL:104:VAL:HB	1.99	0.44
17:yL:114:GLY:HA3	17:yL:119:MET:HB3	1.98	0.44
15:bM:90:TYR:HE2	7:NM:81:ALA:HB1	1.82	0.44
6:EM:50:ALA:HB1	29:EM:202:PEB:HBC1	2.00	0.44
6:KM:157:ASP:OD2	7:NM:149:ARG:NH2	2.42	0.44
7:RM:1:MET:HE3	7:RM:1:MET:HB2	1.89	0.44
6:jM:33:ARG:CZ	6:jM:147:GLN:OE1	2.66	0.44
6:EN:33:ARG:HB2	6:GN:25:GLU:CD	2.43	0.44
7:FN:82:CYS:HA	29:FN:201:PEB:CHA	2.48	0.44
7:HN:35:ASN:OD1	29:HN:202:PEB:ND	2.46	0.44
6:IN:43:LYS:HZ3	6:IN:143:ASP:HB3	1.83	0.44
6:KN:42:GLU:HA	7:LN:20:GLY:HA3	2.00	0.44
6:KN:110:ILE:HG23	6:KN:162:ALA:HB1	2.00	0.44
6:AO:40:ALA:HB2	6:AO:148:ALA:HB1	1.99	0.44
6:AO:140:VAL:CG1	6:AO:141:PRO:HD3	2.48	0.44
21:FP:58:LYS:HE2	21:FP:58:LYS:HB3	1.80	0.44
27:aP:84:THR:HG23	27:aP:88:ALA:O	2.18	0.44
20:gP:57:GLN:HB2	20:gP:132:CYS:HB3	2.00	0.44
21:kP:3:ASP:OD1	20:IP:5:THR:OG1	2.24	0.44
21:qP:100:ASP:OD1	21:qP:101:PRO:HD2	2.18	0.44
20:rP:35:ARG:HB3	26:2P:120:PHE:HD2	1.83	0.44
21:uP:65:ILE:O	21:uP:70:GLY:HA3	2.18	0.44
25:1P:376:LEU:HD23	25:1P:376:LEU:HA	1.72	0.44
6:AQ:54:GLU:OE1	6:AQ:137:ARG:NH2	2.37	0.44
6:CQ:33:ARG:HD3	6:CQ:37:ARG:HB3	2.00	0.44
6:EQ:135:ARG:HH12	6:EQ:160:ILE:HD12	1.83	0.44
6:IQ:81:LYS:HG2	6:IQ:84:ARG:HE	1.83	0.44
6:IQ:128:VAL:HG11	6:IQ:164:SER:HB3	1.99	0.44
8:eR:79:ASP:HA	8:eR:82:THR:O	2.16	0.44
8:eR:224:PHE:CZ	29:TR:201:PEB:HAC1	2.52	0.44
8:eR:239:LYS:NZ	29:eR:401:PEB:O2B	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OR:59:CYS:HB2	6:OR:130:SER:HB3	2.00	0.44
6:QR:54:GLU:OE1	29:QR:202:PEB:CMC	2.66	0.44
2:A1:222:LYS:HG3	6:I1:114:ARG:HH12	1.83	0.44
5:J1:77:ARG:NH1	5:J1:78:ARG:HG2	2.33	0.44
4:K1:3:THR:HG22	4:K1:101:VAL:CG2	2.48	0.44
5:N1:8:VAL:CG1	5:N1:19:LEU:HD11	2.48	0.44
5:N1:77:ARG:NH1	5:N1:78:ARG:HG2	2.33	0.44
7:V1:174:ALA:CB	14:MA:96:LYS:CD	2.95	0.44
7:g1:115:GLU:HA	7:g1:118:ILE:HG12	2.00	0.44
8:e2:129:ASP:OD1	8:e2:206:SER:OG	2.16	0.44
8:e2:263:SER:OG	8:e2:272:LYS:HB2	2.17	0.44
8:e2:287:ALA:HB1	7:a7:147:THR:CG2	2.21	0.44
6:O2:23:ASP:O	6:O2:26:SER:OG	2.36	0.44
6:Q2:1:MET:HG3	7:R2:2:LEU:HD23	1.99	0.44
7:J3:176:ILE:HD12	7:J3:176:ILE:C	2.43	0.44
10:d4:150:ILE:N	10:d4:154:GLU:OE2	2.49	0.44
10:d4:331:GLN:HG3	10:dD:335:LEU:HD13	1.89	0.44
7:C4:15:LYS:HB2	7:C4:15:LYS:HE2	1.64	0.44
7:E4:123:PRO:O	7:E4:126:SER:OG	2.35	0.44
29:E4:202:PEB:O1B	29:E4:202:PEB:HBB1	2.18	0.44
7:G4:36:LYS:HZ1	29:G4:202:PEB:HBB2	1.82	0.44
7:I4:2:LEU:HD22	7:I4:6:SER:HB2	2.00	0.44
7:I4:123:PRO:O	7:I4:126:SER:OG	2.35	0.44
6:J4:58:ALA:O	6:J4:61:ALA:HB3	2.18	0.44
7:K4:15:LYS:HB2	7:K4:15:LYS:HE2	1.64	0.44
7:K4:71:GLY:O	7:K4:73:CYS:N	2.46	0.44
6:L4:19:PRO:HA	6:L4:23:ASP:OD2	2.17	0.44
6:L4:161:ASN:OD1	6:L4:161:ASN:N	2.48	0.44
7:M4:22:SER:OG	7:M4:23:ASP:OD1	2.36	0.44
7:M4:77:ARG:NH2	7:M4:78:ARG:HG2	2.32	0.44
7:G5:38:LEU:HD22	12:E5:219:PHE:HE1	1.82	0.44
7:I5:158:CYS:CB	29:I5:202:PEB:CBA	2.93	0.44
7:K5:59:MET:HE2	7:K5:130:ALA:HB2	2.00	0.44
7:C5:74:TYR:O	7:C5:78:ARG:HB2	2.17	0.44
7:C5:76:ASN:OD1	4:GK:50:ARG:NH2	2.50	0.44
13:k6:261:MET:HE1	13:k6:271:LEU:HD13	2.00	0.44
1:X7:321:TYR:CE2	5:D7:84:ARG:CZ	3.01	0.44
2:A7:200:ARG:HH21	7:g7:91:ARG:HH22	1.64	0.44
6:f7:5:ILE:O	6:f7:9:VAL:HG22	2.18	0.44
7:F8:108:ARG:HA	7:F8:108:ARG:HD2	1.85	0.44
7:A8:59:MET:HE2	7:A8:130:ALA:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:97:GLY:HA3	6:b9:2:LYS:HD3	1.99	0.44
5:F9:32:LYS:C	5:F9:32:LYS:CD	2.86	0.44
4:G9:117:GLU:O	4:G9:121:SER:OG	2.36	0.44
5:L9:155:SER:HB3	27:3P:240:TYR:O	2.18	0.44
6:U9:34:SER:HA	6:U9:37:ARG:HG2	2.00	0.44
7:V9:59:MET:HE2	7:V9:59:MET:HB3	1.96	0.44
7:a9:53:SER:O	7:a9:57:SER:OG	2.28	0.44
6:j9:34:SER:HA	6:j9:37:ARG:HG2	2.00	0.44
6:AA:110:ILE:HG23	6:AA:162:ALA:HB1	2.00	0.44
7:DA:65:GLY:O	7:DA:68:SER:OG	2.35	0.44
6:EA:110:ILE:HG23	6:EA:162:ALA:HB1	2.00	0.44
7:HA:21:GLY:HA3	29:dB:202:PEB:HBB2	2.00	0.44
6:IA:42:GLU:HB3	7:JA:21:GLY:H	1.83	0.44
7:LA:23:ASP:OD1	7:LA:23:ASP:N	2.50	0.44
15:bB:207:PHE:HZ	15:bB:264:LEU:HD21	1.83	0.44
15:bB:240:MET:HB3	15:bB:240:MET:HE2	1.77	0.44
15:bB:343:PHE:CE2	20:KP:63:PRO:HB2	2.53	0.44
6:CB:6:THR:HG22	7:DB:1:MET:CE	2.48	0.44
7:HB:110:LEU:HD21	7:HB:172:VAL:HG13	2.00	0.44
6:KB:144:MET:HE2	6:KB:144:MET:HB3	1.96	0.44
6:MB:54:GLU:HG2	6:MB:133:TYR:CE2	2.31	0.44
6:OB:50:ALA:HB1	29:OB:202:PEB:HBC1	2.00	0.44
7:PB:110:LEU:HD21	7:PB:172:VAL:HG13	2.00	0.44
7:RB:59:MET:HE2	7:RB:59:MET:HB3	1.89	0.44
7:ZB:50:CYS:HB3	29:ZB:203:PEB:H3A1	1.99	0.44
6:aB:50:ALA:HB1	29:aB:202:PEB:HBC1	2.00	0.44
6:fB:91:ARG:NH1	7:gB:16:ALA:HA	2.33	0.44
7:mB:110:LEU:HD21	7:mB:172:VAL:HG13	2.00	0.44
6:AC:92:LEU:HD11	6:AC:108:TRP:HB2	1.99	0.44
7:CD:79:MET:HB3	6:FD:116:VAL:CG1	2.46	0.44
7:CD:157:ASP:OD1	7:CD:159:THR:HG23	2.18	0.44
7:ED:2:LEU:HD22	7:ED:6:SER:HB2	2.00	0.44
7:ED:41:VAL:O	7:ED:45:VAL:HG12	2.18	0.44
6:FD:87:ASP:HA	6:FD:90:MET:HG2	2.00	0.44
6:FD:142:ARG:HE	6:FD:142:ARG:HB2	1.46	0.44
7:GD:102:ALA:HB2	7:GD:168:TYR:CD1	2.53	0.44
7:ID:149:ARG:O	7:ID:150:LYS:HD2	2.18	0.44
6:JD:81:LYS:NZ	6:JD:85:ASP:OD1	2.51	0.44
6:JD:87:ASP:HA	6:JD:90:MET:HG2	2.00	0.44
6:JD:94:ASN:HD22	7:KD:18:TYR:HD1	1.66	0.44
7:KD:39:ASP:OD1	29:KD:202:PEB:C1D	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LD:58:ALA:O	6:LD:61:ALA:HB3	2.18	0.44
7:MD:149:ARG:O	7:MD:150:LYS:HD2	2.18	0.44
6:AE:134:THR:OG1	6:AE:156:LEU:CD2	2.66	0.44
3:BF:205:ARG:HB2	20:rP:76:GLU:OE1	2.18	0.44
5:JF:65:GLN:HG3	20:rP:68:PRO:CA	2.48	0.44
7:PF:148:GLU:OE1	7:PF:148:GLU:N	2.51	0.44
6:fF:142:ARG:HH22	29:fF:202:PEB:HNA	1.65	0.44
7:gF:173:GLY:O	7:gF:177:SER:OG	2.33	0.44
6:hF:140:VAL:HG22	6:hF:146:ALA:HA	2.00	0.44
6:AG:135:ARG:HH12	6:AG:160:ILE:HD12	1.83	0.44
6:CG:4:VAL:O	6:CG:7:THR:OG1	2.30	0.44
6:GG:93:VAL:O	6:GG:97:LEU:HB2	2.17	0.44
3:BI:97:ASN:O	3:BI:101:ASN:ND2	2.50	0.44
6:fI:142:ARG:HH22	29:fI:202:PEB:HNA	1.65	0.44
6:jI:142:ARG:HH22	29:jI:202:PEB:HNA	1.65	0.44
7:kI:103:SER:O	7:kI:103:SER:OG	2.36	0.44
7:FJ:159:THR:CG2	25:YP:513:GLY:O	2.63	0.44
6:IJ:76:GLN:O	6:IJ:80:ASN:ND2	2.51	0.44
6:KJ:43:LYS:HA	6:KJ:43:LYS:HD2	1.67	0.44
6:KJ:106:ASP:HA	6:KJ:110:ILE:HB	2.00	0.44
7:LJ:1:MET:HE3	7:LJ:104:VAL:HB	1.99	0.44
6:eJ:106:ASP:HA	6:eJ:110:ILE:HB	2.00	0.44
7:jJ:1:MET:HE3	7:jJ:1:MET:HB2	1.80	0.44
7:jJ:84:ARG:NH2	7:jJ:85:ASP:OD1	2.50	0.44
7:jJ:112:GLY:O	7:jJ:116:THR:OG1	2.32	0.44
6:mJ:17:ARG:HD3	30:xJ:304:PUB:O1B	2.16	0.44
6:uJ:111:ALA:HB1	16:xJ:96:GLU:HG2	2.00	0.44
1:XK:125:LEU:O	1:XK:195:TYR:OH	2.36	0.44
1:XK:219:ALA:N	7:TK:111:ASN:O	2.51	0.44
5:FK:20:SER:HG	5:FK:23:GLN:HG3	1.81	0.44
4:IK:139:SER:O	4:IK:139:SER:OG	2.34	0.44
4:KK:121:SER:HB2	5:NK:53:THR:HG22	2.00	0.44
7:RK:124:THR:O	7:RK:127:SER:OG	2.23	0.44
7:kK:115:GLU:HA	7:kK:118:ILE:HG12	2.00	0.44
7:BL:131:VAL:HG13	7:BL:169:PHE:HD1	1.83	0.44
6:CL:78:LYS:HA	6:CL:78:LYS:HD2	1.77	0.44
6:CL:85:ASP:OD2	6:CL:127:TYR:OH	2.30	0.44
7:DL:1:MET:HE3	7:DL:104:VAL:HB	1.99	0.44
6:EL:43:LYS:HD2	6:EL:43:LYS:HA	1.67	0.44
6:SL:33:ARG:NH2	6:SL:147:GLN:NE2	2.62	0.44
6:gL:33:ARG:CD	6:iL:25:GLU:HG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:iL:124:THR:HB	6:iL:163:LEU:HD11	1.97	0.44
7:iL:69:PRO:HB2	7:pL:14:ALA:O	2.18	0.44
7:nL:84:ARG:NH2	7:nL:85:ASP:OD1	2.50	0.44
6:oL:1:MET:HE2	7:pL:10:VAL:CG2	2.47	0.44
16:wL:61:ASP:HB3	16:wL:147:LYS:HB2	2.00	0.44
16:wL:183:LYS:CD	16:xL:40:VAL:HG11	2.27	0.44
7:NM:110:LEU:HD21	7:NM:172:VAL:HG13	2.00	0.44
6:WM:50:ALA:HB1	29:WM:202:PEB:HBC1	2.00	0.44
6:fM:50:ALA:HB1	29:fM:202:PEB:HBC1	2.00	0.44
6:AN:59:CYS:O	6:AN:63:TYR:N	2.46	0.44
29:AN:201:PEB:HBC1	7:JN:67:ILE:CD1	2.48	0.44
6:GN:39:GLU:C	6:GN:39:GLU:CD	2.85	0.44
7:HN:82:CYS:HA	29:HN:201:PEB:CHA	2.48	0.44
7:LN:158:CYS:HB3	29:LN:202:PEB:HBA1	1.57	0.44
6:AO:76:GLN:NE2	6:AO:80:ASN:OD1	2.50	0.44
6:GO:40:ALA:HB2	6:GO:148:ALA:HB1	1.99	0.44
6:IO:40:ALA:HB2	6:IO:148:ALA:HB1	1.99	0.44
6:IO:76:GLN:NE2	6:IO:80:ASN:OD1	2.50	0.44
20:CP:57:GLN:HB2	20:CP:132:CYS:HB3	2.00	0.44
20:JP:14:GLU:OE2	24:XP:64:LYS:NZ	2.46	0.44
20:KP:57:GLN:HB2	20:KP:132:CYS:HB3	2.00	0.44
21:MP:100:ASP:OD1	21:MP:101:PRO:HD2	2.18	0.44
20:NP:57:GLN:HB2	20:NP:132:CYS:HB3	2.00	0.44
21:QP:100:ASP:OD1	21:QP:101:PRO:HD2	2.18	0.44
21:UP:76:ARG:HG3	26:ZP:176:TRP:CH2	2.53	0.44
22:VP:110:ILE:O	22:VP:110:ILE:HG13	2.18	0.44
25:YP:702:ARG:O	26:ZP:178:LYS:NZ	2.50	0.44
25:YP:845:LEU:N	25:YP:846:PRO:HD3	2.33	0.44
27:aP:168:ILE:O	27:aP:172:GLU:HG2	2.18	0.44
28:bP:152:THR:O	28:bP:155:SER:HB3	2.17	0.44
28:bP:226:SER:HB3	28:bP:229:ALA:HB3	1.99	0.44
20:mP:57:GLN:HB2	20:mP:132:CYS:HB3	2.00	0.44
21:oP:100:ASP:OD1	21:oP:101:PRO:HD2	2.18	0.44
21:sP:28:ARG:NH1	20:tP:34:GLN:OE1	2.50	0.44
20:tP:135:ASP:N	20:tP:135:ASP:OD1	2.51	0.44
21:wP:100:ASP:OD1	21:wP:101:PRO:HD2	2.18	0.44
22:xP:110:ILE:O	22:xP:110:ILE:HG13	2.18	0.44
27:3P:168:ILE:O	27:3P:172:GLU:HG2	2.18	0.44
6:AQ:150:VAL:HG12	7:DQ:152:SER:O	2.17	0.44
6:AQ:164:SER:O	7:DQ:49:SER:HB2	2.18	0.44
7:BQ:50:CYS:SG	29:BQ:203:PEB:C2A	3.03	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CQ:93:VAL:HG21	6:CQ:156:LEU:HD23	1.99	0.44
6:CQ:135:ARG:HH12	6:CQ:160:ILE:HD12	1.83	0.44
7:FQ:141:PHE:CE1	29:FQ:203:PEB:CMA	2.97	0.44
29:JQ:201:PEB:HBC1	14:MQ:162:LEU:HB2	2.00	0.44
6:KQ:114:ARG:HD3	6:KQ:114:ARG:HA	1.69	0.44
7:LQ:139:VAL:HA	7:LQ:142:ILE:HG12	2.00	0.44
6:MR:138:LEU:HD11	6:MR:144:MET:HE3	1.99	0.44
7:RR:1:MET:HG3	7:RR:2:LEU:N	2.33	0.44
7:RR:124:THR:O	7:RR:128:ILE:HG13	2.18	0.44
6:SR:37:ARG:HB3	6:SR:151:GLU:CD	2.38	0.44
7:VR:124:THR:O	7:VR:128:ILE:HG13	2.18	0.44
2:A1:146:ILE:O	2:A1:149:SER:OG	2.35	0.43
3:B1:205:ARG:HH22	20:JP:52:LYS:CG	2.01	0.43
4:C1:73:ALA:HA	31:C1:1001:CYC:HBD2	2.00	0.43
5:D1:77:ARG:NH1	5:D1:78:ARG:HG2	2.33	0.43
4:G1:21:ASN:O	4:G1:25:GLN:HG3	2.18	0.43
7:P1:115:GLU:HA	7:P1:118:ILE:HG12	2.00	0.43
7:V1:115:GLU:HA	7:V1:118:ILE:HG12	2.00	0.43
7:i1:124:THR:O	7:i1:127:SER:OG	2.23	0.43
6:Q2:137:ARG:NH2	29:Q2:202:PEB:O2B	2.51	0.43
7:T2:16:ALA:HB2	7:X2:69:PRO:HG2	2.00	0.43
6:U2:54:GLU:OE1	29:U2:202:PEB:HMC1	2.18	0.43
6:W2:23:ASP:O	6:W2:26:SER:OG	2.36	0.43
6:A3:140:VAL:CG1	6:A3:141:PRO:HD3	2.48	0.43
10:d4:208:VAL:HG11	10:d4:263:VAL:HG13	1.98	0.43
10:d4:219:LYS:HA	10:d4:242:ALA:HA	1.99	0.43
7:E4:24:LEU:HD23	7:E4:27:LEU:HD13	1.99	0.43
6:F4:81:LYS:CD	6:F4:84:ARG:HD2	2.07	0.43
7:I4:28:LYS:HE2	7:I4:28:LYS:HB2	1.56	0.43
7:I4:133:ILE:HD11	29:I4:203:PEB:CMC	2.48	0.43
7:I4:157:ASP:OD1	7:I4:159:THR:HG23	2.18	0.43
6:J4:55:ALA:O	6:J4:58:ALA:N	2.45	0.43
7:K4:109:CYS:O	7:K4:113:LEU:HB2	2.17	0.43
7:M4:131:VAL:HG21	7:M4:172:VAL:HG13	1.99	0.43
29:M4:202:PEB:O1B	29:M4:202:PEB:HHB1	2.18	0.43
7:B5:91:ARG:NH1	18:MC:291:PRO:O	2.50	0.43
7:H5:110:LEU:HD21	7:H5:172:VAL:HG12	2.00	0.43
7:H5:148:GLU:OE2	29:H5:203:PEB:NA	2.49	0.43
7:I5:28:LYS:NZ	19:zL:291:ILE:HG12	2.33	0.43
7:I5:72:MEN:O	7:I5:78:ARG:CG	2.66	0.43
3:B7:207:ARG:HG2	3:B7:210:GLU:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J7:170:SER:HB2	26:2P:47:GLN:HE21	1.82	0.43
6:f7:34:SER:HA	6:f7:37:ARG:HG2	2.00	0.43
6:j7:34:SER:HA	6:j7:37:ARG:HG2	2.00	0.43
5:J9:35:ASN:HB3	29:J9:1002:PEB:H1D1	2.00	0.43
5:L9:166:ARG:HD2	27:3P:235:ILE:HD11	1.99	0.43
4:M9:6:THR:HG23	5:N9:3:ASP:OD2	2.17	0.43
6:W9:22:SER:OG	6:Z9:2:LYS:NZ	2.51	0.43
6:W9:62:LYS:HE2	8:eR:276:PHE:HB3	1.99	0.43
7:a9:15:LYS:O	7:a9:16:ALA:HB3	2.17	0.43
6:CA:88:HIS:CD2	6:CA:91:ARG:HH21	2.36	0.43
7:FA:75:THR:OG1	7:FA:76:ASN:N	2.41	0.43
6:GA:92:LEU:HB3	6:GA:105:LEU:HD23	2.00	0.43
6:IA:88:HIS:CD2	6:IA:91:ARG:HH21	2.36	0.43
6:CB:99:VAL:HG12	6:CB:101:GLY:H	1.84	0.43
7:NB:59:MET:HE2	7:NB:59:MET:HB3	1.88	0.43
7:NB:110:LEU:HD21	7:NB:172:VAL:HG13	2.00	0.43
6:OB:6:THR:HG22	7:PB:1:MET:HE2	2.00	0.43
6:SB:48:HIS:CD2	6:SB:48:HIS:O	2.70	0.43
7:gB:110:LEU:HD21	7:gB:172:VAL:HG13	2.00	0.43
7:LC:51:MET:HE3	7:LC:137:GLN:CD	2.43	0.43
18:MC:285:TYR:C	5:DF:18:PHE:HD2	2.25	0.43
6:BD:4:VAL:CG1	6:BD:26:SER:HB2	2.48	0.43
7:CD:149:ARG:O	7:CD:150:LYS:HD2	2.18	0.43
7:ED:131:VAL:HG21	7:ED:172:VAL:HG13	1.99	0.43
7:ED:149:ARG:O	7:ED:150:LYS:HD2	2.18	0.43
7:ID:157:ASP:OD1	7:ID:159:THR:HG23	2.18	0.43
7:KD:67:ILE:O	7:KD:74:TYR:HD1	2.00	0.43
6:LD:19:PRO:HA	6:LD:23:ASP:OD2	2.17	0.43
7:MD:157:ASP:OD1	7:MD:159:THR:HG23	2.18	0.43
18:ME:232:MET:HB2	18:ME:236:ASP:CG	2.42	0.43
18:ME:261:VAL:CG1	6:SI:68:ASN:OD1	2.65	0.43
18:ME:303:PHE:HB3	6:gL:83:TYR:CD2	2.42	0.43
1:XF:104:ALA:HB1	7:aF:84:ARG:HD2	1.99	0.43
1:XF:105:LYS:HG2	7:aF:88:ILE:HD13	2.00	0.43
2:AF:144:HIS:NE2	2:AF:285:SER:O	2.51	0.43
7:PF:6:SER:O	7:PF:10:VAL:HG13	2.17	0.43
7:YF:115:GLU:HA	7:YF:118:ILE:HG12	1.99	0.43
6:dF:52:VAL:HG13	6:dF:86:VAL:HG12	1.99	0.43
6:fF:137:ARG:HE	6:fF:137:ARG:HB2	1.73	0.43
6:AG:105:LEU:HD23	6:AG:110:ILE:HG12	2.00	0.43
6:EG:135:ARG:HH12	6:EG:160:ILE:HD12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KG:135:ARG:HH12	6:KG:160:ILE:HD12	1.83	0.43
13:kH:147:ASP:OD1	13:kH:147:ASP:C	2.61	0.43
5:LI:72:MEN:HE21	27:aP:114:PRO:HG2	2.00	0.43
6:CJ:106:ASP:HA	6:CJ:110:ILE:HB	2.00	0.43
6:OJ:99:VAL:O	6:OJ:99:VAL:HG12	2.18	0.43
6:QJ:48:HIS:CD2	6:QJ:48:HIS:O	2.70	0.43
7:TJ:131:VAL:HG13	7:TJ:169:PHE:HD1	1.83	0.43
6:UJ:82:CYS:HA	29:UJ:201:PEB:HAA1	1.92	0.43
6:WJ:99:VAL:O	6:WJ:99:VAL:HG12	2.18	0.43
7:ZJ:108:ARG:HG2	16:xJ:40:VAL:HA	2.00	0.43
7:hJ:131:VAL:HG13	7:hJ:169:PHE:HD1	1.82	0.43
6:kJ:106:ASP:HA	6:kJ:110:ILE:HB	2.00	0.43
7:rJ:1:MET:HE3	7:rJ:104:VAL:HB	1.99	0.43
7:tJ:1:MET:HE3	7:tJ:104:VAL:HB	1.99	0.43
6:uJ:162:ALA:CB	16:xJ:92:LYS:HE3	2.47	0.43
19:zJ:212:PHE:HA	19:zJ:216:TYR:CZ	2.47	0.43
3:BK:204:ARG:O	3:BK:205:ARG:C	2.61	0.43
4:EK:73:ALA:HA	31:EK:1001:CYC:HBD2	2.00	0.43
4:GK:21:ASN:O	4:GK:25:GLN:HG3	2.18	0.43
5:JK:25:ASP:HA	5:JK:28:SER:OG	2.18	0.43
5:JK:139:VAL:O	5:JK:139:VAL:HG12	2.17	0.43
5:LK:77:ARG:NH1	5:LK:78:ARG:HG2	2.33	0.43
7:PK:97:LEU:CD1	7:PK:165:VAL:HG23	2.40	0.43
6:QK:49:GLU:OE1	6:QK:49:GLU:N	2.45	0.43
7:kK:112:GLY:O	7:kK:116:THR:OG1	2.31	0.43
7:RL:131:VAL:HG13	7:RL:169:PHE:HD1	1.83	0.43
7:TL:157:ASP:OD2	25:1P:556:ASP:HB3	2.18	0.43
7:VL:1:MET:HE3	7:VL:104:VAL:HB	1.99	0.43
6:aL:106:ASP:HA	6:aL:110:ILE:HB	2.00	0.43
7:bL:129:ARG:HA	7:bL:129:ARG:HD2	1.82	0.43
7:bL:131:VAL:HG13	7:bL:169:PHE:HD1	1.82	0.43
7:dL:1:MET:HE3	7:dL:104:VAL:HB	1.99	0.43
6:eL:85:ASP:OD2	6:eL:127:TYR:OH	2.30	0.43
6:iL:73:GLY:C	6:iL:78:LYS:HG3	2.43	0.43
7:tL:38:LEU:HD13	6:uL:33:ARG:HH22	1.82	0.43
7:vL:131:VAL:HG13	7:vL:169:PHE:HD1	1.83	0.43
19:zL:366:ARG:CD	21:LP:61:LEU:HB3	2.48	0.43
17:BM:139:ALA:O	17:BM:143:THR:OG1	2.27	0.43
17:BM:181:THR:CB	29:BM:301:PEB:HBA2	2.34	0.43
7:DM:110:LEU:HD21	7:DM:172:VAL:HG13	2.00	0.43
7:LM:85:ASP:HB3	29:LM:201:PEB:H1D1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aM:50:ALA:HB1	29:aM:202:PEB:HBC1	2.00	0.43
6:GN:88:HIS:CD2	6:GN:91:ARG:HH21	2.36	0.43
7:JN:65:GLY:O	7:JN:68:SER:OG	2.35	0.43
7:LN:147:THR:OG1	29:LN:203:PEB:OA	2.27	0.43
6:AO:42:GLU:CD	7:BO:24:LEU:HD13	2.43	0.43
7:FO:53:SER:O	7:FO:57:SER:OG	2.26	0.43
6:KO:1:MET:SD	6:KO:1:MET:N	2.80	0.43
21:DP:139:SER:CB	20:iP:45:GLU:OE2	2.64	0.43
20:PP:17:TYR:CE2	21:UP:44:ILE:HG22	2.53	0.43
20:RP:83:ARG:NH1	25:YP:678:LEU:O	2.51	0.43
25:YP:52:ILE:O	25:YP:56:ILE:HG13	2.18	0.43
25:YP:149:LEU:HD23	25:YP:149:LEU:HA	1.88	0.43
25:YP:841:ARG:O	25:YP:843:PRO:HD3	2.18	0.43
21:dP:94:TYR:CE2	20:eP:12:ASP:HA	2.52	0.43
21:dP:100:ASP:OD1	21:dP:101:PRO:HD2	2.18	0.43
20:eP:57:GLN:HB2	20:eP:132:CYS:HB3	2.00	0.43
21:jP:27:LEU:HD13	25:1P:54:LEU:HD21	2.00	0.43
25:1P:845:LEU:N	25:1P:846:PRO:HD3	2.33	0.43
27:3P:259:LYS:O	27:3P:261:LYS:HE3	2.18	0.43
6:EQ:33:ARG:HB3	6:EQ:37:ARG:HB3	1.99	0.43
7:HQ:143:THR:OG1	7:HQ:145:THR:OG1	2.33	0.43
6:KQ:140:VAL:HG22	6:KQ:145:SER:HA	2.00	0.43
14:MQ:111:ARG:HH21	14:MQ:112:LEU:H	1.65	0.43
8:eR:279:ILE:HG13	8:eR:280:SER:N	2.32	0.43
6:SR:23:ASP:O	6:SR:26:SER:OG	2.36	0.43
6:UR:54:GLU:OE1	29:UR:202:PEB:HMC1	2.18	0.43
5:J1:33:GLU:CD	5:J1:156:LEU:HD21	2.42	0.43
4:M1:73:ALA:HA	31:M1:1001:CYC:HBD2	2.00	0.43
5:N1:47:ASN:ND2	5:N1:141:LEU:HD11	2.28	0.43
6:Q1:137:ARG:HG3	29:Q1:202:PEB:HHC1	2.00	0.43
7:R1:173:GLY:O	7:R1:177:SER:OG	2.32	0.43
6:S1:137:ARG:HG3	29:S1:202:PEB:HHC1	2.00	0.43
7:T1:115:GLU:HA	7:T1:118:ILE:HG12	2.00	0.43
7:c1:115:GLU:HA	7:c1:118:ILE:HG12	2.00	0.43
7:e1:115:GLU:HA	7:e1:118:ILE:HG12	2.00	0.43
7:g1:102:ALA:H	14:MA:98:LEU:HD11	1.82	0.43
6:M2:118:ARG:CD	6:W2:114:ARG:NH2	2.77	0.43
6:M2:147:GLN:NE2	29:P2:201:PEB:O2C	2.46	0.43
7:X2:75:THR:HG22	7:X2:78:ARG:HG3	1.99	0.43
6:E3:40:ALA:HB2	6:E3:148:ALA:HB1	1.99	0.43
7:N3:115:GLU:HA	7:N3:118:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:5:PHE:HD1	7:C4:27:LEU:HD21	1.84	0.43
7:C4:123:PRO:O	7:C4:126:SER:OG	2.35	0.43
6:D4:58:ALA:O	6:D4:61:ALA:HB3	2.18	0.43
7:E4:38:LEU:HD23	7:E4:38:LEU:HA	1.64	0.43
6:F4:81:LYS:NZ	6:F4:85:ASP:OD1	2.51	0.43
7:G4:164:GLU:O	7:G4:167:SER:OG	2.27	0.43
6:H4:58:ALA:O	6:H4:61:ALA:HB3	2.18	0.43
7:I4:93:VAL:HG11	7:I4:169:PHE:CE2	2.53	0.43
29:I4:202:PEB:O1B	29:I4:202:PEB:HBB1	2.18	0.43
7:K4:77:ARG:HE	7:K4:77:ARG:HB3	1.07	0.43
29:K4:202:PEB:HMD3	29:K4:202:PEB:HHC1	1.60	0.43
29:K4:202:PEB:O1B	29:K4:202:PEB:HBB1	2.18	0.43
6:L4:81:LYS:NZ	6:L4:85:ASP:OD1	2.51	0.43
6:L4:89:TYR:C	6:L4:90:MET:HE3	2.42	0.43
7:M4:125:ASN:O	7:M4:129:ARG:HB2	2.17	0.43
7:L5:108:ARG:CG	4:I7:64:PRO:HG3	2.37	0.43
7:A5:161:LEU:HD12	29:A5:202:PEB:HBA2	1.97	0.43
7:C5:59:MET:HE2	7:C5:130:ALA:HB2	2.00	0.43
12:E5:62:GLU:O	12:E5:78:THR:HA	2.19	0.43
7:G8:72:MEN:OD1	7:G8:72:MEN:N	2.50	0.43
7:K8:92:TYR:CZ	7:K8:108:ARG:HB3	2.53	0.43
12:E8:208:ALA:HB3	6:IF:74:GLU:CD	2.28	0.43
3:B9:165:ARG:NH2	3:B9:166:ILE:HD11	2.33	0.43
4:E9:86:ARG:N	8:eR:296:PRO:CB	2.74	0.43
5:F9:72:MEN:CA	5:F9:78:ARG:HH11	2.31	0.43
7:V9:53:SER:O	7:V9:57:SER:OG	2.28	0.43
7:V9:147:THR:CB	13:kH:124:ASN:HD21	2.32	0.43
6:h9:34:SER:HA	6:h9:37:ARG:HG2	2.00	0.43
6:AA:59:CYS:O	6:AA:63:TYR:N	2.46	0.43
6:AA:88:HIS:CD2	6:AA:91:ARG:HH21	2.36	0.43
6:EA:39:GLU:C	6:EA:39:GLU:CD	2.85	0.43
6:EA:54:GLU:HG3	6:EA:133:TYR:HE2	1.82	0.43
7:FA:43:SER:O	7:FA:46:SER:OG	2.35	0.43
7:FA:113:LEU:O	7:FA:116:THR:OG1	2.29	0.43
6:GA:39:GLU:CD	6:GA:39:GLU:C	2.85	0.43
6:GA:110:ILE:HG23	6:GA:162:ALA:HB1	2.00	0.43
6:IA:54:GLU:HG3	6:IA:133:TYR:HE2	1.82	0.43
6:IA:139:CYS:N	6:IA:143:ASP:OD2	2.51	0.43
6:KA:42:GLU:HA	7:LA:20:GLY:HA3	2.00	0.43
7:NB:62:GLU:C	7:NB:62:GLU:CD	2.86	0.43
6:QB:50:ALA:HB1	29:QB:204:PEB:HBC1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:RB:140:ALA:HA	7:RB:145:THR:OG1	2.18	0.43
7:TB:1:MET:HE3	7:TB:1:MET:HB2	1.89	0.43
6:CC:92:LEU:HD11	6:CC:108:TRP:HB2	1.99	0.43
18:MC:304:TRP:C	18:MC:304:TRP:CE3	2.96	0.43
10:dD:226:ARG:HE	10:dD:226:ARG:HA	1.83	0.43
10:dD:284:LEU:HD21	10:dD:287:ARG:HH22	1.83	0.43
6:DD:75:ASN:ND2	6:DD:77:GLU:HG2	2.28	0.43
6:HD:113:ALA:N	7:MD:76:ASN:HD21	2.15	0.43
7:MD:151:MET:HE2	7:MD:151:MET:HA	1.99	0.43
29:BE:201:PEB:NB	29:BE:201:PEB:NC	2.65	0.43
29:JE:201:PEB:NB	29:JE:201:PEB:NC	2.65	0.43
3:BF:19:SER:HB2	3:BF:164:ARG:CZ	2.48	0.43
29:FF:1002:PEB:HMC2	4:KF:145:GLN:NE2	2.33	0.43
7:RF:56:VAL:CG1	7:RF:79:MET:HE1	2.49	0.43
6:SF:137:ARG:HE	6:SF:137:ARG:HB2	1.73	0.43
7:TF:6:SER:O	7:TF:10:VAL:HG13	2.17	0.43
7:gF:6:SER:O	7:gF:10:VAL:HG13	2.17	0.43
7:kF:148:GLU:OE1	7:kF:148:GLU:N	2.50	0.43
6:AG:154:ALA:HB2	7:DG:42:ASN:HD22	1.83	0.43
7:BG:139:VAL:HA	7:BG:142:ILE:HG12	2.00	0.43
6:CG:105:LEU:HD23	6:CG:110:ILE:HG12	2.00	0.43
7:FG:116:THR:CG2	14:MG:177:SER:HB2	2.48	0.43
6:GG:81:LYS:HA	6:GG:84:ARG:HG2	2.01	0.43
6:IG:42:GLU:HA	6:IG:45:ALA:HB3	1.99	0.43
7:JG:40:ALA:HB2	7:JG:161:LEU:HD23	1.99	0.43
13:kH:11:ILE:HG13	13:kH:12:ALA:N	2.33	0.43
13:kH:23:ALA:HB1	13:kH:26:VAL:CG2	2.45	0.43
13:kH:261:MET:HE1	13:kH:271:LEU:HD13	2.00	0.43
1:XI:291:THR:HG21	5:DI:107:ASP:HB3	2.00	0.43
2:AI:71:LYS:O	2:AI:75:GLU:HG2	2.18	0.43
3:BI:19:SER:HB2	3:BI:164:ARG:CZ	2.48	0.43
4:KI:69:MET:HE3	4:KI:69:MET:HB2	1.87	0.43
7:RI:56:VAL:HG12	7:RI:79:MET:HE1	2.00	0.43
7:aI:6:SER:O	7:aI:10:VAL:HG13	2.17	0.43
7:aI:24:LEU:HA	7:aI:24:LEU:HD23	1.89	0.43
7:eI:68:SER:OG	7:eI:69:PRO:CD	2.46	0.43
7:BJ:1:MET:HE3	7:BJ:104:VAL:HB	1.99	0.43
6:KJ:72:ALA:CB	29:KJ:201:PEB:CMA	2.96	0.43
6:MJ:78:LYS:HD2	29:MJ:201:PEB:CMB	2.48	0.43
6:OJ:43:LYS:HA	6:OJ:43:LYS:HD2	1.67	0.43
6:QJ:99:VAL:O	6:QJ:99:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:TJ:203:PEB:HBA2	29:TJ:203:PEB:H2A1	1.91	0.43
6:WJ:106:ASP:HA	6:WJ:110:ILE:HB	2.00	0.43
6:aJ:99:VAL:O	6:aJ:99:VAL:HG12	2.18	0.43
6:cJ:133:TYR:CZ	6:cJ:137:ARG:CD	2.90	0.43
6:cJ:139:CYS:HB3	29:cJ:202:PEB:H3A1	1.72	0.43
7:hJ:84:ARG:NH2	7:hJ:85:ASP:OD1	2.50	0.43
6:oJ:10:SER:OG	7:pJ:1:MET:SD	2.72	0.43
7:pJ:75:THR:OG1	7:pJ:76:ASN:N	2.52	0.43
2:AK:223:GLY:HA3	6:IK:114:ARG:HH22	1.83	0.43
5:HK:39:ASP:N	29:HK:1002:PEB:HMD1	2.33	0.43
5:HK:77:ARG:NH1	5:HK:78:ARG:HG2	2.33	0.43
4:IK:3:THR:HG22	4:IK:101:VAL:CG2	2.48	0.43
5:JK:22:THR:HG21	15:bM:331:ALA:HB1	0.49	0.43
4:MK:73:ALA:HA	31:MK:1001:CYC:HBD2	2.00	0.43
6:QK:137:ARG:HG3	29:QK:202:PEB:HHC1	2.00	0.43
6:fK:137:ARG:HG3	29:fK:202:PEB:HHC1	2.00	0.43
6:EL:68:ASN:CB	6:EL:71:GLU:OE2	2.60	0.43
6:ML:106:ASP:HA	6:ML:110:ILE:HB	2.00	0.43
6:ML:139:CYS:HB3	29:ML:202:PEB:H3A1	1.72	0.43
6:QL:47:ASN:ND2	29:QL:202:PEB:HMC1	2.33	0.43
6:SL:53:LYS:HA	6:SL:53:LYS:HD3	1.90	0.43
6:cL:99:VAL:O	6:cL:99:VAL:HG12	2.18	0.43
6:gL:106:ASP:HA	6:gL:110:ILE:HB	2.00	0.43
6:oL:99:VAL:O	6:oL:99:VAL:HG12	2.18	0.43
6:oL:106:ASP:HA	6:oL:110:ILE:HB	2.00	0.43
6:qL:94:ASN:HD22	7:rL:18:TYR:HB3	1.82	0.43
7:rL:75:THR:OG1	7:rL:76:ASN:N	2.52	0.43
15:bM:207:PHE:HZ	15:bM:264:LEU:HD21	1.83	0.43
15:bM:318:THR:HB	20:mP:83:ARG:HD3	2.00	0.43
15:bM:319:VAL:HG22	20:mP:79:ALA:HB1	1.96	0.43
16:AM:60:VAL:HG22	7:iM:115:GLU:HB3	2.00	0.43
17:BM:217:SER:HB3	6:UM:2:LYS:HB2	2.01	0.43
7:DM:85:ASP:OD1	29:DM:201:PEB:C1D	2.60	0.43
6:EM:144:MET:HE2	6:EM:144:MET:HB3	1.96	0.43
6:GM:144:MET:HE2	6:GM:144:MET:HB3	1.96	0.43
7:JM:110:LEU:HD21	7:JM:172:VAL:HG13	2.00	0.43
6:QM:9:VAL:HG13	7:RM:95:TYR:CE1	2.52	0.43
7:cM:110:LEU:HD21	7:cM:172:VAL:HG13	2.00	0.43
7:eM:110:LEU:HD21	7:eM:172:VAL:HG13	2.00	0.43
6:AN:142:ARG:HE	6:AN:142:ARG:HB3	1.64	0.43
6:EN:3:SER:N	6:EN:6:THR:OG1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EN:81:LYS:HE2	6:EN:84:ARG:HH21	1.82	0.43
7:JN:35:ASN:OD1	29:JN:202:PEB:ND	2.46	0.43
7:JN:115:GLU:HA	7:JN:118:ILE:HG12	2.00	0.43
7:LN:20:GLY:O	7:LN:24:LEU:CB	2.66	0.43
6:AO:102:THR:CG2	6:AO:155:TYR:HE1	2.31	0.43
7:JO:107:ASP:HA	7:JO:111:ASN:HB2	2.00	0.43
9:OO:324:SER:OG	9:OO:327:HIS:N	2.49	0.43
21:DP:15:GLN:HB3	23:WP:134:ARG:HD3	1.99	0.43
20:EP:89:LEU:HB2	20:EP:133:MET:CE	2.48	0.43
21:QP:62:TYR:HB3	27:3P:61:ARG:NH2	2.32	0.43
20:RP:68:PRO:CB	20:gP:66:VAL:HG21	2.49	0.43
23:WP:77:ASN:O	23:WP:83:ARG:HB3	2.17	0.43
25:YP:307:ASN:O	28:bP:63:GLY:HA3	2.18	0.43
25:YP:385:TYR:OH	25:YP:400:GLU:OE2	2.31	0.43
21:dP:14:VAL:HG21	23:yP:169:SER:CA	2.48	0.43
20:eP:135:ASP:OD1	20:eP:135:ASP:N	2.51	0.43
21:jP:100:ASP:OD1	21:jP:101:PRO:HD2	2.18	0.43
31:kP:1001:CYC:O2A	25:1P:358:GLN:HG2	2.18	0.43
20:rP:135:ASP:OD1	20:rP:135:ASP:N	2.51	0.43
21:sP:100:ASP:OD1	21:sP:101:PRO:HD2	2.18	0.43
22:xP:109:ILE:O	22:xP:112:VAL:HG12	2.18	0.43
24:zP:67:ARG:HG2	24:zP:123:GLY:HA3	1.99	0.43
25:1P:424:PRO:HB2	25:1P:427:ILE:HG22	2.00	0.43
25:1P:841:ARG:O	25:1P:843:PRO:HD3	2.18	0.43
27:3P:174:ALA:O	27:3P:178:VAL:HG13	2.18	0.43
6:AQ:37:ARG:NH1	6:AQ:100:GLY:H	2.16	0.43
7:JQ:137:GLN:NE2	29:JQ:203:PEB:HHA1	2.21	0.43
6:MR:59:CYS:HB2	6:MR:130:SER:HB3	1.99	0.43
6:QR:23:ASP:O	6:QR:26:SER:OG	2.36	0.43
6:UR:33:ARG:NH2	29:XR:202:PEB:C3D	2.80	0.43
7:XR:129:ARG:HA	7:XR:129:ARG:HD2	1.82	0.43
3:B1:55:PHE:HE1	3:B1:93:PHE:HB2	1.83	0.43
5:H1:39:ASP:N	29:H1:1002:PEB:HMD1	2.33	0.43
5:J1:148:THR:HG21	29:J1:1002:PEB:HMA3	2.01	0.43
4:M1:1:MET:CG	5:N1:6:ALA:HB1	2.45	0.43
6:W1:137:ARG:HG3	29:W1:202:PEB:HHC1	2.00	0.43
6:d1:137:ARG:HG3	29:d1:202:PEB:HHC1	2.00	0.43
8:e2:87:MET:SD	8:e2:92:MET:SD	3.16	0.43
8:e2:249:TYR:CD2	7:X2:119:ALA:HB2	2.53	0.43
6:M2:82:CYS:O	6:M2:86:VAL:HG22	2.17	0.43
6:Q2:91:ARG:HH11	7:R2:16:ALA:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U2:139:CYS:HB3	6:U2:142:ARG:CG	2.48	0.43
6:A3:42:GLU:CD	7:B3:24:LEU:HD13	2.43	0.43
7:F3:15:LYS:HB2	7:F3:15:LYS:HE2	1.78	0.43
7:H3:42:ASN:O	7:H3:46:SER:OG	2.26	0.43
10:d4:124:ARG:HB3	10:d4:124:ARG:CZ	2.48	0.43
6:F4:58:ALA:O	6:F4:61:ALA:HB3	2.18	0.43
7:G4:2:LEU:HD22	7:G4:6:SER:HB2	2.00	0.43
7:G4:41:VAL:O	7:G4:45:VAL:HG12	2.18	0.43
6:H4:87:ASP:HA	6:H4:90:MET:HG2	2.00	0.43
6:J4:94:ASN:HD22	7:K4:18:TYR:HD1	1.66	0.43
7:B5:92:TYR:CE2	18:MC:270:PRO:HB3	2.52	0.43
7:I5:13:ASP:CB	7:I5:16:ALA:HB3	2.49	0.43
12:E5:77:LYS:HE3	12:E5:77:LYS:HB2	1.82	0.43
13:k6:186:ALA:CB	13:k6:200:LEU:HG	2.48	0.43
5:L7:159:GLU:HA	27:aP:240:TYR:CE2	2.53	0.43
5:N7:143:ASN:OD1	5:N7:143:ASN:N	2.50	0.43
7:I8:173:GLY:O	7:I8:177:SER:OG	2.33	0.43
7:K8:40:ALA:O	7:K8:43:SER:OG	2.34	0.43
12:E8:62:GLU:O	12:E8:78:THR:HA	2.19	0.43
6:Q9:22:SER:O	6:Q9:26:SER:OG	2.35	0.43
6:d9:34:SER:HA	6:d9:37:ARG:HG2	2.00	0.43
6:AA:92:LEU:HB3	6:AA:105:LEU:HD23	2.00	0.43
7:DA:150:LYS:HA	7:DA:150:LYS:HD3	1.88	0.43
6:EA:92:LEU:HB3	6:EA:105:LEU:HD23	2.00	0.43
7:HA:59:MET:HE3	7:HA:59:MET:HB3	1.89	0.43
7:HA:115:GLU:HA	7:HA:118:ILE:HG12	2.00	0.43
6:IA:37:ARG:NE	6:IA:100:GLY:HA2	2.32	0.43
14:MA:158:ARG:NH1	30:MA:403:PUB:OD	2.36	0.43
15:bB:30:LYS:HA	7:FB:87:GLU:OE2	2.17	0.43
15:bB:201:TYR:N	29:FB:201:PEB:OD	2.37	0.43
17:BB:80:LYS:NZ	7:DB:115:GLU:CD	2.73	0.43
6:GB:130:SER:O	6:GB:134:THR:OG1	2.34	0.43
7:PB:85:ASP:HB3	29:PB:201:PEB:H1D1	2.01	0.43
7:TB:110:LEU:HD21	7:TB:172:VAL:HG13	2.00	0.43
29:HC:201:PEB:NB	29:HC:201:PEB:NC	2.65	0.43
10:dD:226:ARG:NH1	6:WI:46:GLY:C	2.76	0.43
7:CD:109:CYS:O	7:CD:113:LEU:HB2	2.18	0.43
6:DD:156:LEU:O	6:DD:160:ILE:HG13	2.17	0.43
6:FD:29:GLY:O	6:FD:32:GLN:OE1	2.35	0.43
6:HD:58:ALA:O	6:HD:61:ALA:HB3	2.18	0.43
7:ID:22:SER:OG	7:ID:23:ASP:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:MD:39:ASP:OD1	29:MD:202:PEB:C1D	2.66	0.43
7:MD:102:ALA:HB1	7:MD:105:LEU:HB2	1.99	0.43
6:AE:157:ASP:OD1	6:AE:160:ILE:HD12	2.17	0.43
7:PF:103:SER:O	7:PF:103:SER:OG	2.36	0.43
7:gF:115:GLU:HA	7:gF:118:ILE:HG12	1.99	0.43
7:BG:40:ALA:HB2	7:BG:161:LEU:HD23	1.99	0.43
6:EG:78:LYS:HE2	29:EG:201:PEB:HMB1	2.00	0.43
6:GG:81:LYS:HG2	6:GG:84:ARG:HE	1.83	0.43
6:IG:37:ARG:NH1	6:IG:100:GLY:H	2.16	0.43
7:JG:55:ALA:HB2	7:JG:134:MET:HE3	2.01	0.43
13:kH:18:ARG:HG2	13:kH:18:ARG:HH11	1.84	0.43
5:JI:166:ARG:NH2	27:aP:127:ASP:OD1	2.50	0.43
7:TI:56:VAL:HG12	7:TI:79:MET:HE1	2.00	0.43
6:UI:140:VAL:HG22	6:UI:146:ALA:HA	2.00	0.43
6:AJ:99:VAL:O	6:AJ:99:VAL:HG12	2.18	0.43
7:FJ:75:THR:OG1	7:FJ:76:ASN:N	2.52	0.43
6:IJ:139:CYS:HB3	29:IJ:202:PEB:H3A1	1.72	0.43
29:LJ:202:PEB:HBA2	29:LJ:202:PEB:H2A1	1.91	0.43
7:NJ:75:THR:OG1	7:NJ:76:ASN:N	2.52	0.43
7:PJ:1:MET:HE3	7:PJ:104:VAL:HB	1.99	0.43
7:ZJ:75:THR:OG1	7:ZJ:76:ASN:N	2.52	0.43
6:cJ:99:VAL:O	6:cJ:99:VAL:HG12	2.18	0.43
7:fJ:75:THR:OG1	7:fJ:76:ASN:N	2.52	0.43
6:gJ:99:VAL:O	6:gJ:99:VAL:HG12	2.18	0.43
6:kJ:85:ASP:OD2	6:kJ:127:TYR:OH	2.30	0.43
7:tJ:84:ARG:NH2	7:tJ:85:ASP:OD1	2.50	0.43
16:wJ:239:ALA:O	16:wJ:243:VAL:HG23	2.17	0.43
19:zJ:110:GLU:OE1	19:zJ:144:ARG:NH2	2.51	0.43
2:AK:146:ILE:HD12	2:AK:156:GLU:HG3	2.00	0.43
3:BK:23:ASN:HB3	4:EK:17:ARG:HH12	1.83	0.43
4:EK:43:ALA:CB	4:EK:142:LEU:HD21	2.49	0.43
6:jK:157:ASP:OD2	7:mK:46:SER:HB3	2.16	0.43
7:kK:129:ARG:HA	7:kK:129:ARG:HD2	1.87	0.43
7:mK:115:GLU:HA	7:mK:118:ILE:HG12	2.00	0.43
6:GL:106:ASP:HA	6:GL:110:ILE:HB	2.00	0.43
6:IL:76:GLN:O	6:IL:80:ASN:ND2	2.51	0.43
6:IL:99:VAL:O	6:IL:99:VAL:HG12	2.18	0.43
7:LL:1:MET:HE3	7:LL:104:VAL:HB	1.99	0.43
7:ZL:75:THR:OG1	7:ZL:76:ASN:N	2.52	0.43
29:bL:203:PEB:HBA2	29:bL:203:PEB:H2A1	1.91	0.43
6:gL:68:ASN:CG	6:gL:71:GLU:OE2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:rL:1:MET:HE3	7:rL:104:VAL:HB	1.99	0.43
19:zL:363:ARG:CA	21:LP:62:TYR:CZ	3.02	0.43
7:JM:149:ARG:NH2	7:JM:151:MET:HE3	2.33	0.43
7:NM:62:GLU:C	7:NM:62:GLU:CD	2.86	0.43
6:hM:18:PHE:HD2	7:iM:45:VAL:HG12	1.84	0.43
7:kM:110:LEU:HD21	7:kM:172:VAL:HG13	2.00	0.43
6:lM:53:LYS:HE3	6:lM:53:LYS:HB2	1.88	0.43
6:AN:3:SER:N	6:AN:6:THR:OG1	2.51	0.43
7:LN:38:LEU:HD23	7:LN:38:LEU:HA	1.83	0.43
14:MN:96:LYS:HE3	14:MN:96:LYS:HB3	1.75	0.43
6:KO:53:LYS:HZ3	6:KO:83:TYR:HE1	1.51	0.43
7:MO:87:GLU:OE1	7:MO:91:ARG:CD	2.66	0.43
20:EP:57:GLN:HB2	20:EP:132:CYS:HB3	2.00	0.43
20:EP:135:ASP:N	20:EP:135:ASP:OD1	2.51	0.43
21:BP:83:ARG:HG3	25:YP:614:TYR:CE1	2.53	0.43
21:LP:96:MET:HE3	21:LP:96:MET:HB3	1.91	0.43
20:PP:89:LEU:HB2	20:PP:133:MET:CE	2.49	0.43
27:aP:174:ALA:O	27:aP:178:VAL:HG13	2.18	0.43
20:cP:29:PHE:CE2	21:hP:31:PHE:HE1	2.36	0.43
21:dP:14:VAL:HG22	23:yP:133:ILE:HD12	2.00	0.43
21:dP:58:LYS:HE2	21:dP:58:LYS:HB3	1.81	0.43
21:oP:6:THR:CG2	24:zP:129:VAL:HG13	2.49	0.43
20:tP:57:GLN:HB2	20:tP:132:CYS:HB3	2.00	0.43
20:tP:89:LEU:HB2	20:tP:133:MET:CE	2.49	0.43
20:vP:89:LEU:HB2	20:vP:133:MET:CE	2.49	0.43
6:CQ:7:THR:HG22	14:MQ:139:GLY:O	2.17	0.43
6:CQ:105:LEU:HD23	6:CQ:110:ILE:HG12	2.00	0.43
7:DQ:55:ALA:HB2	7:DQ:134:MET:HE3	2.01	0.43
7:DQ:135:LYS:NZ	7:DQ:166:ALA:O	2.50	0.43
6:EQ:25:GLU:HB3	6:GQ:30:ASN:N	2.33	0.43
7:FQ:139:VAL:HA	7:FQ:142:ILE:HG12	2.00	0.43
6:GQ:81:LYS:HA	6:GQ:84:ARG:HG2	2.01	0.43
7:JQ:139:VAL:HA	7:JQ:142:ILE:HG12	2.00	0.43
6:KQ:135:ARG:HH12	6:KQ:160:ILE:HD12	1.83	0.43
14:MQ:239:LYS:HA	14:MQ:239:LYS:HD3	1.81	0.43
8:eR:221:ASN:HD22	7:TR:113:LEU:HA	1.74	0.43
7:NR:124:THR:O	7:NR:128:ILE:HG13	2.18	0.43
29:RR:202:PEB:HH1	29:RR:202:PEB:HMD3	1.77	0.43
5:F1:20:SER:OG	5:F1:23:GLN:NE2	2.50	0.43
5:H1:148:THR:HG21	29:H1:1002:PEB:HMA3	2.01	0.43
5:J1:25:ASP:HA	5:J1:28:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K1:3:THR:O	4:K1:6:THR:OG1	2.37	0.43
7:V1:112:GLY:O	7:V1:116:THR:OG1	2.31	0.43
6:f1:52:VAL:CG1	6:f1:86:VAL:HG12	2.34	0.43
6:h1:140:VAL:HG12	6:h1:146:ALA:HA	2.01	0.43
8:e2:92:MET:HE1	8:e2:128:ARG:HH12	1.67	0.43
8:e2:125:ARG:HD3	29:V2:201:PEB:O2C	2.18	0.43
29:O2:201:PEB:CMC	7:T2:79:MET:HG3	2.49	0.43
6:S2:116:VAL:CG1	6:S2:120:LEU:HD12	2.41	0.43
7:T2:1:MET:HG3	7:T2:2:LEU:N	2.33	0.43
6:U2:33:ARG:HH22	29:X2:201:PEB:C3D	2.31	0.43
7:D3:144:ASN:ND2	7:D3:151:MET:O	2.46	0.43
7:F3:144:ASN:ND2	7:F3:151:MET:O	2.46	0.43
10:d4:110:VAL:O	10:d4:114:VAL:HG23	2.18	0.43
10:d4:202:GLU:OE2	10:d4:206:ARG:NE	2.50	0.43
6:B4:58:ALA:O	6:B4:61:ALA:HB3	2.18	0.43
7:C4:149:ARG:O	7:C4:150:LYS:HD2	2.18	0.43
7:E4:67:ILE:O	7:E4:74:TYR:HD1	2.00	0.43
7:G4:147:THR:HG23	29:G4:203:PEB:HBB2	2.00	0.43
7:G4:157:ASP:OD1	7:G4:159:THR:HG23	2.18	0.43
7:K4:123:PRO:O	7:K4:126:SER:OG	2.35	0.43
7:I5:2:LEU:HA	7:I5:2:LEU:HD12	1.68	0.43
7:I5:25:GLN:HA	7:I5:28:LYS:NZ	2.33	0.43
7:K5:36:LYS:HB3	7:K5:161:LEU:CD1	2.47	0.43
12:E5:173:PHE:HZ	6:Z1:83:TYR:CZ	2.33	0.43
2:A7:259:ARG:HH21	2:A7:274:ASN:HD21	1.64	0.43
3:B7:208:PRO:CG	21:QP:58:LYS:O	2.66	0.43
5:F7:88:ILE:HG21	31:F7:1001:CYC:HAB2	2.01	0.43
5:L7:145:THR:OG1	5:L7:146:THR:N	2.50	0.43
6:U7:126:ALA:HB3	29:U7:201:PEB:HMA1	2.01	0.43
6:W7:22:SER:O	6:W7:26:SER:OG	2.35	0.43
6:W7:140:VAL:N	6:W7:141:PRO:HD2	2.33	0.43
6:Z7:126:ALA:HB3	29:Z7:201:PEB:HMA1	2.01	0.43
7:B8:110:LEU:HD21	7:B8:172:VAL:HG12	2.01	0.43
7:I8:27:LEU:C	19:zJ:294:GLY:HA3	2.42	0.43
7:I8:108:ARG:HD3	7:I8:108:ARG:HA	1.72	0.43
7:L8:108:ARG:HA	7:L8:108:ARG:HD2	1.86	0.43
7:L8:110:LEU:HD21	7:L8:172:VAL:HG12	2.00	0.43
5:H9:35:ASN:HB3	29:H9:1002:PEB:H1D1	2.00	0.43
5:L9:35:ASN:HB3	29:L9:1002:PEB:H1D1	2.01	0.43
5:N9:88:ILE:HG21	31:N9:1001:CYC:HAB2	2.01	0.43
6:O9:34:SER:HA	6:O9:37:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W9:34:SER:HA	6:W9:37:ARG:HG2	2.00	0.43
6:KB:157:ASP:OD2	7:NB:149:ARG:NH2	2.42	0.43
7:VB:1:MET:HE3	7:VB:1:MET:HB2	1.89	0.43
7:kB:110:LEU:HD21	7:kB:172:VAL:HG13	2.00	0.43
29:DC:201:PEB:NB	29:DC:201:PEB:NC	2.65	0.43
6:EC:106:ASP:OD2	6:GC:17:ARG:NH1	2.50	0.43
6:IC:14:ALA:HB3	18:MC:51:PRO:CD	2.38	0.43
18:MC:38:THR:HG23	18:MC:39:ALA:H	1.84	0.43
18:MC:63:ASP:HB3	18:MC:64:GLU:H	1.52	0.43
18:MC:232:MET:HE1	6:SF:142:ARG:HH21	1.83	0.43
10:dD:154:GLU:O	10:dD:158:HIS:ND1	2.46	0.43
10:dD:198:TYR:C	10:dD:200:THR:N	2.75	0.43
6:LD:87:ASP:HA	6:LD:90:MET:HG2	2.00	0.43
18:ME:218:GLY:N	18:ME:223:ARG:HE	2.17	0.43
7:TF:129:ARG:NH1	7:TF:132:SER:OG	2.52	0.43
6:UF:140:VAL:HG22	6:UF:146:ALA:HA	2.00	0.43
6:jF:18:PHE:HB3	7:kF:45:VAL:HG13	1.99	0.43
6:AG:140:VAL:HG22	6:AG:145:SER:HA	2.00	0.43
6:CG:78:LYS:HE2	29:CG:201:PEB:HMB1	2.01	0.43
6:CG:128:VAL:HG11	6:CG:164:SER:HB3	1.99	0.43
6:EG:17:ARG:HH21	6:EG:20:SER:HB3	1.82	0.43
6:EG:81:LYS:HA	6:EG:84:ARG:HG2	2.00	0.43
3:BI:227:GLU:CG	20:vP:60:GLN:HE21	2.23	0.43
4:CI:120:ARG:HH11	4:KI:116:GLU:CD	2.26	0.43
7:PI:106:GLU:OE2	7:PI:171:ARG:NH1	2.52	0.43
7:TI:129:ARG:NH1	7:TI:132:SER:OG	2.52	0.43
6:UI:137:ARG:HE	6:UI:137:ARG:HB2	1.73	0.43
7:iI:115:GLU:HA	7:iI:118:ILE:HG12	1.99	0.43
6:AJ:133:TYR:CD1	6:AJ:133:TYR:O	2.70	0.43
7:BJ:75:THR:OG1	7:BJ:76:ASN:N	2.52	0.43
7:BJ:84:ARG:NH2	7:BJ:85:ASP:OD1	2.50	0.43
6:EJ:43:LYS:HA	6:EJ:43:LYS:HD2	1.67	0.43
7:FJ:70:GLY:C	7:XJ:125:ASN:HD22	2.26	0.43
7:NJ:30:PHE:CD1	7:NJ:30:PHE:O	2.70	0.43
7:NJ:84:ARG:NH2	7:NJ:85:ASP:OD1	2.50	0.43
6:aJ:85:ASP:OD2	6:aJ:127:TYR:OH	2.30	0.43
7:dJ:75:THR:OG1	7:dJ:76:ASN:N	2.52	0.43
6:iJ:124:THR:HB	6:iJ:163:LEU:HD11	1.97	0.43
7:lJ:69:PRO:HB2	7:pJ:14:ALA:O	2.18	0.43
6:oJ:91:ARG:HD2	7:pJ:17:ALA:N	2.33	0.43
7:pJ:40:ALA:HB2	7:pJ:161:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XK:222:THR:HG21	7:TK:115:GLU:HG3	2.00	0.43
4:GK:3:THR:HG22	4:GK:101:VAL:CG2	2.48	0.43
5:HK:35:ASN:HD21	29:HK:1002:PEB:C3C	2.28	0.43
5:HK:58:ALA:O	5:HK:62:GLU:HG3	2.18	0.43
5:HK:145:THR:HA	5:HK:148:THR:CG2	2.49	0.43
5:LK:148:THR:HG21	29:LK:1002:PEB:HMA3	2.01	0.43
7:VK:163:SER:HB2	14:MN:101:LEU:HB2	1.95	0.43
7:aK:112:GLY:O	7:aK:116:THR:OG1	2.31	0.43
7:aK:128:ILE:O	7:aK:132:SER:OG	2.33	0.43
6:dK:140:VAL:HG12	6:dK:146:ALA:HA	2.01	0.43
6:hK:33:ARG:O	6:hK:37:ARG:HB2	2.17	0.43
7:iK:115:GLU:HA	7:iK:118:ILE:HG12	2.00	0.43
6:AL:106:ASP:HA	6:AL:110:ILE:HB	2.00	0.43
7:FL:146:ALA:HB3	7:FL:149:ARG:O	2.17	0.43
7:FL:157:ASP:OD1	7:FL:159:THR:OG1	2.33	0.43
7:JL:1:MET:HE3	7:JL:104:VAL:HB	1.99	0.43
7:PL:75:THR:OG1	7:PL:76:ASN:N	2.52	0.43
7:XL:75:THR:OG1	7:XL:76:ASN:N	2.52	0.43
7:XL:84:ARG:NH2	7:XL:85:ASP:OD1	2.50	0.43
7:jL:40:ALA:HB2	7:jL:161:LEU:HD13	2.01	0.43
7:lL:38:LEU:HD13	6:mL:33:ARG:NH2	2.26	0.43
7:nL:75:THR:OG1	7:nL:76:ASN:N	2.52	0.43
7:tL:1:MET:HE3	7:tL:104:VAL:HB	1.99	0.43
6:CM:48:HIS:CD2	6:CM:48:HIS:O	2.70	0.43
7:FM:110:LEU:HD21	7:FM:172:VAL:HG13	2.00	0.43
6:OM:154:ALA:HB3	6:QM:21:ASN:HD21	1.84	0.43
29:PM:202:PEB:HBA2	29:PM:202:PEB:H2A1	1.86	0.43
7:TM:110:LEU:HD21	7:TM:172:VAL:HG13	2.00	0.43
7:VM:110:LEU:HD21	7:VM:172:VAL:HG13	2.00	0.43
6:WM:135:ARG:NH1	6:WM:157:ASP:OD1	2.39	0.43
6:dM:50:ALA:HB1	29:dM:202:PEB:HBC1	2.00	0.43
29:dM:202:PEB:HBB2	7:HN:21:GLY:HA3	2.00	0.43
6:jM:36:ALA:CB	6:jM:147:GLN:HB3	2.48	0.43
6:AN:92:LEU:HB3	6:AN:105:LEU:HD23	2.00	0.43
7:DN:84:ARG:HG2	14:MN:150:SER:OG	2.17	0.43
6:KN:9:VAL:HG21	7:LN:104:VAL:HG11	1.99	0.43
6:KO:76:GLN:NE2	6:KO:80:ASN:OD1	2.50	0.43
7:MO:115:GLU:HA	7:MO:118:ILE:HG12	2.00	0.43
21:BP:87:TYR:OH	25:YP:614:TYR:HB2	2.18	0.43
20:PP:135:ASP:N	20:PP:135:ASP:OD1	2.51	0.43
21:SP:58:LYS:HE2	21:SP:58:LYS:HB3	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:TP:57:GLN:HB2	20:TP:132:CYS:HB3	2.00	0.43
23:WP:152:ILE:O	23:WP:156:ILE:HG13	2.18	0.43
25:YP:39:GLU:C	25:YP:42:GLN:H	2.26	0.43
25:YP:562:LYS:HB2	25:YP:637:ASP:HA	1.99	0.43
25:YP:658:LEU:HD13	25:YP:658:LEU:HA	1.75	0.43
26:ZP:85:LEU:HB3	26:ZP:86:PRO:HD2	2.00	0.43
20:eP:89:LEU:HB2	20:eP:133:MET:CE	2.49	0.43
20:iP:16:ARG:HG3	20:iP:16:ARG:HH11	1.81	0.43
20:lP:57:GLN:HB2	20:lP:132:CYS:HB3	2.00	0.43
21:nP:17:LYS:O	22:xP:94:TYR:OH	2.25	0.43
20:vP:135:ASP:N	20:vP:135:ASP:OD1	2.51	0.43
25:1P:74:ARG:O	25:1P:74:ARG:HG3	2.18	0.43
25:1P:509:PHE:O	25:1P:639:ILE:HG23	2.19	0.43
6:AQ:81:LYS:HG2	6:AQ:84:ARG:HE	1.83	0.43
7:BQ:150:LYS:HD3	7:BQ:150:LYS:HA	1.84	0.43
6:CQ:81:LYS:HG2	6:CQ:84:ARG:HE	1.83	0.43
6:CQ:140:VAL:HG22	6:CQ:145:SER:HA	2.00	0.43
6:EQ:81:LYS:HG2	6:EQ:84:ARG:HE	1.83	0.43
7:FQ:141:PHE:HE2	29:FQ:203:PEB:C4A	2.30	0.43
6:GQ:114:ARG:CD	6:IQ:114:ARG:NH1	2.78	0.43
7:HQ:55:ALA:HB2	7:HQ:134:MET:HE3	2.00	0.43
8:eR:61:GLN:O	8:eR:65:THR:HB	2.19	0.43
6:OR:115:GLU:HA	6:OR:118:ARG:CZ	2.48	0.43
7:TR:2:LEU:HD22	7:TR:6:SER:HB2	2.00	0.43
7:XR:75:THR:HG23	7:XR:77:ARG:N	2.33	0.43
1:X1:219:ALA:N	7:T1:111:ASN:O	2.51	0.43
5:H1:145:THR:HA	5:H1:148:THR:CG2	2.49	0.43
5:J1:20:SER:HB2	15:bB:331:ALA:O	2.18	0.43
4:M1:93:ARG:CB	5:N1:18:PHE:CE1	3.02	0.43
6:h1:33:ARG:NH2	6:h1:33:ARG:N	2.66	0.43
6:M2:23:ASP:O	6:M2:26:SER:OG	2.36	0.43
6:M2:33:ARG:HG2	6:M2:33:ARG:O	2.18	0.43
7:N2:84:ARG:C	7:N2:87:GLU:HG2	2.32	0.43
7:R2:124:THR:O	7:R2:128:ILE:HG13	2.18	0.43
7:T2:154:ALA:HB3	29:T2:202:PEB:C4B	2.49	0.43
29:T2:203:PEB:CBD	13:k6:267:LYS:HZ3	2.31	0.43
7:V2:164:GLU:O	7:V2:167:SER:OG	2.35	0.43
7:H3:59:MET:HE3	7:H3:59:MET:HB3	1.86	0.43
10:d4:50:THR:HG21	6:H4:112:GLY:H	1.83	0.43
7:E4:2:LEU:HD22	7:E4:6:SER:HB2	2.00	0.43
7:G4:88:ILE:HG21	29:G4:201:PEB:HAD1	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:65:TYR:CZ	6:J4:65:TYR:CZ	3.06	0.43
7:I4:5:PHE:HD1	7:I4:27:LEU:HD21	1.84	0.43
7:I4:102:ALA:HB2	7:I4:168:TYR:CD1	2.53	0.43
7:I4:137:GLN:HA	29:I4:203:PEB:CAB	2.48	0.43
6:L4:81:LYS:HE2	6:L4:84:ARG:CZ	2.47	0.43
7:L5:110:LEU:HD21	7:L5:172:VAL:HG12	2.00	0.43
7:A5:59:MET:HE2	7:A5:130:ALA:HB2	2.00	0.43
7:F8:110:LEU:HD21	7:F8:172:VAL:HG12	2.00	0.43
7:I8:79:MET:SD	15:bM:229:LEU:CD1	2.99	0.43
7:K8:76:ASN:HD22	7:LO:4:ALA:CB	2.31	0.43
31:I9:1001:CYC:HBB2	5:L9:76:SER:H	1.83	0.43
7:V9:102:ALA:HB3	7:V9:171:ARG:NH1	2.34	0.43
6:Z9:34:SER:HA	6:Z9:37:ARG:HG2	2.00	0.43
6:Z9:126:ALA:HB3	29:Z9:201:PEB:HMA1	2.01	0.43
6:b9:22:SER:O	6:b9:26:SER:OG	2.35	0.43
7:DA:84:ARG:NH1	14:MA:150:SER:H	2.16	0.43
7:DA:147:THR:OG1	29:DA:203:PEB:OA	2.27	0.43
6:EA:88:HIS:CD2	6:EA:91:ARG:HH21	2.36	0.43
6:GA:88:HIS:CD2	6:GA:91:ARG:HH21	2.36	0.43
6:IA:110:ILE:HG23	6:IA:162:ALA:HB1	2.00	0.43
6:KA:88:HIS:CD2	6:KA:91:ARG:HH21	2.36	0.43
7:LA:82:CYS:HA	29:LA:201:PEB:CHA	2.48	0.43
7:DB:110:LEU:HD21	7:DB:172:VAL:HG13	2.00	0.43
7:FB:110:LEU:HD21	7:FB:172:VAL:HG13	2.00	0.43
7:BC:125:ASN:OD1	7:BC:125:ASN:N	2.48	0.43
18:MC:45:PHE:CZ	18:MC:253:ALA:CB	3.01	0.43
6:BD:2:LYS:HZ3	6:DD:17:ARG:HH11	1.66	0.43
6:BD:33:ARG:HG3	6:DD:25:GLU:CD	2.43	0.43
7:CD:102:ALA:HB2	7:CD:168:TYR:CD1	2.53	0.43
6:FD:81:LYS:NZ	6:FD:85:ASP:OD1	2.51	0.43
7:GD:123:PRO:O	7:GD:126:SER:OG	2.35	0.43
6:HD:114:ARG:HG3	6:HD:115:GLU:N	2.34	0.43
7:KD:102:ALA:HB2	7:KD:168:TYR:CD1	2.53	0.43
29:KD:202:PEB:HHB1	29:KD:202:PEB:O1B	2.18	0.43
6:LD:33:ARG:NH2	6:LD:151:GLU:OE1	2.51	0.43
6:LD:81:LYS:NZ	6:LD:85:ASP:OD1	2.51	0.43
7:MD:83:LEU:HD23	7:MD:83:LEU:HA	1.76	0.43
7:MD:102:ALA:HB2	7:MD:168:TYR:CD1	2.53	0.43
6:IE:2:LYS:HA	6:IE:2:LYS:HD3	1.84	0.43
2:AF:71:LYS:O	2:AF:75:GLU:HG2	2.18	0.43
5:JF:26:ALA:HB2	27:3P:91:VAL:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KF:7:GLU:O	4:KF:11:THR:HG23	2.18	0.43
6:dF:42:GLU:HA	6:dF:45:ALA:HB3	2.00	0.43
7:BG:141:PHE:CZ	29:BG:203:PEB:HMB3	2.53	0.43
6:CG:2:LYS:NZ	14:MG:140:VAL:N	2.67	0.43
7:HG:139:VAL:HA	7:HG:142:ILE:HG12	2.00	0.43
6:IG:2:LYS:CE	14:MG:254:VAL:CG1	2.83	0.43
6:IG:105:LEU:HD23	6:IG:110:ILE:HG12	2.00	0.43
6:KG:81:LYS:HG2	6:KG:84:ARG:HE	1.83	0.43
6:KG:93:VAL:HG21	6:KG:156:LEU:HD23	1.99	0.43
7:LG:139:VAL:HA	7:LG:142:ILE:HG12	2.00	0.43
13:kH:70:MET:HG2	13:kH:76:LEU:CD2	2.49	0.43
4:EI:123:ASP:OD1	4:EI:123:ASP:O	2.37	0.43
5:JI:26:ALA:CB	27:aP:91:VAL:HA	2.48	0.43
7:PI:148:GLU:OE1	7:PI:148:GLU:N	2.51	0.43
6:SI:140:VAL:HG22	6:SI:146:ALA:HA	2.00	0.43
7:gI:103:SER:O	7:gI:103:SER:OG	2.36	0.43
7:BJ:124:THR:O	7:BJ:127:SER:OG	2.26	0.43
7:LJ:75:THR:OG1	7:LJ:76:ASN:N	2.52	0.43
6:QJ:106:ASP:HA	6:QJ:110:ILE:HB	2.00	0.43
7:VJ:75:THR:OG1	7:VJ:76:ASN:N	2.52	0.43
29:fJ:203:PEB:HBA2	29:fJ:203:PEB:H2A1	1.91	0.43
7:hJ:1:MET:HE3	7:hJ:104:VAL:HB	1.99	0.43
6:iJ:43:LYS:HD2	6:iJ:43:LYS:HA	1.67	0.43
6:qJ:53:LYS:HA	6:qJ:53:LYS:HD3	1.90	0.43
16:wJ:113:SER:O	16:wJ:117:LYS:N	2.50	0.43
5:FK:148:THR:HG21	29:FK:1002:PEB:HMA3	2.01	0.43
4:GK:3:THR:O	4:GK:6:THR:OG1	2.36	0.43
5:HK:30:MET:HE3	5:HK:30:MET:HB2	1.71	0.43
5:JK:8:VAL:CG1	5:JK:19:LEU:HD22	2.49	0.43
5:JK:148:THR:HG21	29:JK:1002:PEB:HMA3	2.01	0.43
5:NK:25:ASP:HA	5:NK:28:SER:OG	2.19	0.43
6:UK:137:ARG:HG3	29:UK:203:PEB:HHC1	2.00	0.43
7:VK:163:SER:HB2	14:MN:101:LEU:CG	2.41	0.43
6:WK:140:VAL:HG12	6:WK:146:ALA:HA	2.01	0.43
7:aK:115:GLU:HA	7:aK:118:ILE:HG12	2.00	0.43
7:BL:1:MET:HE3	7:BL:104:VAL:HB	1.99	0.43
6:CL:71:GLU:HB3	6:CL:72:ALA:H	1.60	0.43
7:FL:70:GLY:C	7:XL:125:ASN:HD22	2.26	0.43
7:LL:15:LYS:HB2	7:LL:15:LYS:HE2	1.74	0.43
7:NL:75:THR:OG1	7:NL:76:ASN:N	2.52	0.43
7:RL:75:THR:OG1	7:RL:76:ASN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VL:124:THR:O	7:VL:127:SER:OG	2.26	0.43
7:VL:131:VAL:HG13	7:VL:169:PHE:HD1	1.83	0.43
7:hL:75:THR:OG1	7:hL:76:ASN:N	2.52	0.43
7:jL:131:VAL:HG13	7:jL:169:PHE:HD1	1.83	0.43
29:rL:201:PEB:CAC	16:xL:115:PHE:HD1	2.30	0.43
7:tL:75:THR:OG1	7:tL:76:ASN:N	2.52	0.43
6:uL:139:CYS:HB3	29:uL:203:PEB:H3A1	1.72	0.43
7:vL:75:THR:OG1	7:vL:76:ASN:N	2.52	0.43
16:wL:64:MET:HE1	16:wL:141:MET:HE1	2.00	0.43
16:wL:183:LYS:CG	16:xL:40:VAL:CB	2.85	0.43
6:EM:16:GLY:HA2	7:FM:91:ARG:NH1	2.34	0.43
6:QM:9:VAL:CG1	7:RM:95:TYR:CD1	3.00	0.43
6:aM:9:VAL:HG13	7:cM:95:TYR:CD1	2.54	0.43
6:fM:91:ARG:NH1	7:gM:16:ALA:HA	2.33	0.43
7:gM:59:MET:HE2	7:gM:59:MET:HB3	1.89	0.43
6:AN:34:SER:HA	6:AN:37:ARG:HH22	1.84	0.43
6:EN:39:GLU:C	6:EN:39:GLU:CD	2.85	0.43
6:GN:54:GLU:HG3	6:GN:133:TYR:HE2	1.82	0.43
7:LN:65:GLY:O	7:LN:68:SER:OG	2.35	0.43
6:AO:54:GLU:OE1	29:AO:202:PEB:C3C	2.67	0.43
7:JO:53:SER:O	7:JO:57:SER:OG	2.26	0.43
21:DP:107:ARG:HH11	25:YP:477:ARG:HB2	1.83	0.43
20:CP:90:ARG:HH22	21:BP:73:TYR:HH	1.63	0.43
20:NP:89:LEU:HB2	20:NP:133:MET:CE	2.48	0.43
20:RP:87:TYR:OH	21:UP:68:PRO:HD3	2.18	0.43
20:TP:89:LEU:HB2	20:TP:133:MET:CE	2.48	0.43
25:YP:424:PRO:HB2	25:YP:427:ILE:HG22	2.00	0.43
21:dP:90:ARG:CD	20:eP:16:ARG:C	2.91	0.43
20:eP:90:ARG:NH2	21:hP:73:TYR:OH	2.47	0.43
21:hP:100:ASP:OD1	21:hP:101:PRO:HD2	2.18	0.43
21:jP:112:LEU:HD23	21:jP:160:LEU:HD13	2.01	0.43
20:rP:57:GLN:HB2	20:rP:132:CYS:HB3	2.00	0.43
20:rP:97:ILE:HD12	21:wP:19:LEU:CD1	2.48	0.43
21:sP:31:PHE:CD2	20:tP:33:GLY:HA3	2.53	0.43
20:vP:57:GLN:HB2	20:vP:132:CYS:HB3	2.00	0.43
20:vP:131:ARG:NH2	27:3P:250:VAL:HB	2.33	0.43
23:yP:68:ARG:HB3	23:yP:69:PRO:HD2	2.01	0.43
25:1P:199:LYS:HB2	25:1P:220:PHE:CD1	2.54	0.43
25:1P:562:LYS:HB2	25:1P:637:ASP:HA	1.99	0.43
6:AQ:105:LEU:HD23	6:AQ:110:ILE:HG12	2.00	0.43
7:BQ:137:GLN:HE22	29:BQ:203:PEB:CHA	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CQ:19:PRO:CD	7:DQ:91:ARG:HA	2.48	0.43
6:EQ:78:LYS:HE2	29:EQ:201:PEB:HMB1	2.00	0.43
6:EQ:128:VAL:HG11	6:EQ:164:SER:HB3	1.99	0.43
8:eR:57:PHE:CZ	7:TR:80:ALA:CB	3.00	0.43
8:eR:87:MET:SD	8:eR:92:MET:SD	3.16	0.43
8:eR:93:ASP:HA	8:eR:96:VAL:HG12	2.01	0.43
8:eR:224:PHE:CE2	7:TR:116:THR:HG23	2.53	0.43
29:eR:401:PEB:H2A1	7:PR:59:MET:CE	2.36	0.43
7:NR:1:MET:HG3	7:NR:2:LEU:N	2.33	0.43
6:QR:84:ARG:HE	6:QR:84:ARG:HB3	1.75	0.43
6:QR:91:ARG:NH1	7:RR:16:ALA:HA	2.33	0.43
6:QR:115:GLU:N	6:QR:118:ARG:HH21	2.14	0.43
6:SR:118:ARG:CD	6:UR:114:ARG:NH1	2.81	0.43
7:TR:124:THR:O	7:TR:128:ILE:HG13	2.18	0.43
6:UR:23:ASP:O	6:UR:26:SER:OG	2.36	0.43
6:UR:33:ARG:HH11	6:UR:147:GLN:HB3	1.83	0.43
7:VR:1:MET:HG3	7:VR:2:LEU:N	2.33	0.43
6:WR:23:ASP:O	6:WR:26:SER:OG	2.36	0.43
1:X1:48:ARG:NH2	1:X1:53:SER:O	2.45	0.43
3:B1:58:HIS:NE2	5:L1:81:ALA:HA	2.33	0.43
5:F1:148:THR:HG21	29:F1:1002:PEB:HMA3	2.01	0.43
5:J1:145:THR:O	5:J1:148:THR:CG2	2.67	0.43
5:N1:8:VAL:HG11	5:N1:19:LEU:HD11	2.01	0.43
5:N1:25:ASP:HA	5:N1:28:SER:OG	2.19	0.43
7:R1:70:GLY:O	7:k1:125:ASN:ND2	2.51	0.43
8:e2:107:ALA:HB1	8:e2:146:ARG:CD	2.45	0.43
8:e2:152:GLN:OE1	7:X2:111:ASN:O	2.36	0.43
6:M2:143:ASP:OD2	29:M2:202:PEB:H1D1	2.18	0.43
7:N2:154:ALA:HB3	29:N2:202:PEB:C4B	2.49	0.43
6:O2:115:GLU:HA	6:O2:118:ARG:CZ	2.48	0.43
6:U2:23:ASP:O	6:U2:26:SER:OG	2.36	0.43
6:W2:5:ILE:HA	6:W2:8:VAL:CG2	2.48	0.43
7:X2:154:ALA:HB3	29:X2:201:PEB:C4B	2.49	0.43
6:I3:140:VAL:HG12	6:I3:146:ALA:N	2.34	0.43
7:L3:4:ALA:CA	7:K5:76:ASN:HD22	2.31	0.43
7:M3:54:ASP:HB3	7:M3:137:GLN:HE22	1.83	0.43
7:N3:54:ASP:HB3	7:N3:137:GLN:HE22	1.83	0.43
7:C4:41:VAL:O	7:C4:45:VAL:HG12	2.18	0.43
7:C4:102:ALA:HB2	7:C4:168:TYR:CD1	2.53	0.43
7:I4:39:ASP:OD1	29:I4:202:PEB:C1D	2.66	0.43
6:L4:43:LYS:HA	6:L4:43:LYS:HD2	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:110:ILE:HB	6:L4:114:ARG:HH12	1.84	0.43
7:M4:41:VAL:O	7:M4:45:VAL:HG12	2.18	0.43
7:M4:85:ASP:HB2	29:M4:201:PEB:HHA1	2.01	0.43
7:M4:157:ASP:OD1	7:M4:159:THR:HG23	2.18	0.43
7:B5:110:LEU:HD21	7:B5:172:VAL:HG12	2.00	0.43
7:A5:45:VAL:HG12	7:A5:91:ARG:HH22	1.84	0.43
13:k6:70:MET:HG2	13:k6:76:LEU:CD2	2.49	0.43
6:S7:126:ALA:HB3	29:S7:201:PEB:HMA1	2.01	0.43
6:U7:5:ILE:O	6:U7:9:VAL:HG22	2.18	0.43
7:c7:53:SER:O	7:c7:57:SER:OG	2.28	0.43
6:j7:5:ILE:O	6:j7:9:VAL:HG22	2.18	0.43
6:l7:34:SER:HA	6:l7:37:ARG:HG2	2.00	0.43
7:I8:9:VAL:HG23	7:I8:9:VAL:O	2.18	0.43
3:B9:55:PHE:HB3	3:B9:59:GLN:HB2	2.00	0.43
5:J9:33:GLU:O	5:J9:35:ASN:N	2.50	0.43
5:L9:88:ILE:HG21	31:L9:1001:CYC:HAB2	2.01	0.43
5:N9:35:ASN:HB3	29:N9:1002:PEB:H1D1	2.01	0.43
6:Q9:126:ALA:HB3	29:Q9:201:PEB:HMA1	2.01	0.43
6:S9:34:SER:HA	6:S9:37:ARG:HG2	2.00	0.43
6:S9:126:ALA:HB3	29:S9:201:PEB:HMA1	2.01	0.43
6:U9:126:ALA:HB3	29:U9:201:PEB:HMA1	2.01	0.43
6:h9:18:PHE:HD2	7:i9:45:VAL:HG22	1.83	0.43
6:AA:39:GLU:C	6:AA:39:GLU:CD	2.85	0.43
6:AA:54:GLU:HG3	6:AA:133:TYR:HE2	1.82	0.43
6:EA:139:CYS:N	6:EA:143:ASP:OD2	2.51	0.43
6:IB:50:ALA:HB1	29:IB:202:PEB:HBC1	2.00	0.43
7:LB:85:ASP:HB3	29:LB:201:PEB:H1D1	2.00	0.43
7:LB:110:LEU:HD21	7:LB:172:VAL:HG13	2.00	0.43
6:dB:135:ARG:NH1	6:dB:157:ASP:OD1	2.39	0.43
7:DC:51:MET:HE3	7:DC:137:GLN:CD	2.43	0.43
6:BD:58:ALA:O	6:BD:61:ALA:HB3	2.18	0.43
7:CD:36:LYS:HZ3	29:CD:202:PEB:C2B	2.31	0.43
7:CD:39:ASP:OD1	29:CD:202:PEB:C1D	2.66	0.43
29:CD:202:PEB:O1B	29:CD:202:PEB:HHB1	2.18	0.43
6:DD:58:ALA:O	6:DD:61:ALA:HB3	2.18	0.43
6:FD:156:LEU:O	6:FD:160:ILE:HG13	2.17	0.43
7:ID:102:ALA:HB2	7:ID:168:TYR:CD1	2.53	0.43
7:KD:149:ARG:O	7:KD:150:LYS:HD2	2.18	0.43
6:LD:75:ASN:ND2	6:LD:77:GLU:HG2	2.28	0.43
7:MD:5:PHE:HD1	7:MD:27:LEU:HD21	1.84	0.43
18:ME:232:MET:HG3	18:ME:236:ASP:CB	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:260:ASP:N	2:AF:260:ASP:OD1	2.51	0.43
3:BF:204:ARG:NE	31:rP:1001:CYC:CGD	2.74	0.43
7:PF:106:GLU:OE2	7:PF:171:ARG:NH1	2.52	0.43
7:eF:6:SER:O	7:eF:10:VAL:HG13	2.17	0.43
7:eF:170:ASP:OD1	7:eF:171:ARG:N	2.52	0.43
6:AG:48:HIS:HB3	7:BG:18:TYR:CE1	2.53	0.43
7:BG:51:MET:HE2	7:BG:141:PHE:CD2	2.54	0.43
6:CG:19:PRO:CD	7:DG:91:ARG:HA	2.48	0.43
6:CG:93:VAL:HG21	6:CG:156:LEU:HD23	1.99	0.43
7:DG:55:ALA:HB2	7:DG:134:MET:HE3	2.01	0.43
7:FG:47:ASN:HD22	29:FG:203:PEB:HMA3	1.84	0.43
7:FG:120:LEU:HD21	14:MG:174:ARG:HA	2.01	0.43
6:IG:81:LYS:HG2	6:IG:84:ARG:HE	1.83	0.43
6:IG:135:ARG:HH12	6:IG:160:ILE:HD12	1.83	0.43
6:KG:114:ARG:HD3	6:KG:114:ARG:HA	1.69	0.43
7:LG:116:THR:N	14:MG:233:ALA:HB2	2.33	0.43
14:MG:97:PHE:HD2	14:MG:98:LEU:HD13	1.83	0.43
2:AI:107:THR:HG23	2:AI:108:VAL:HG13	2.00	0.43
4:KI:33:ARG:HD2	4:KI:33:ARG:HA	1.73	0.43
6:QI:140:VAL:HG22	6:QI:146:ALA:HA	2.00	0.43
6:hI:140:VAL:HG22	6:hI:146:ALA:HA	2.00	0.43
7:iI:3:ASP:OD1	7:iI:3:ASP:N	2.46	0.43
7:kI:24:LEU:HD23	7:kI:24:LEU:HA	1.89	0.43
7:kl:148:GLU:OE1	7:kl:148:GLU:N	2.50	0.43
7:BJ:40:ALA:HB2	7:BJ:161:LEU:HD13	2.01	0.43
7:DJ:75:THR:OG1	7:DJ:76:ASN:N	2.52	0.43
7:JJ:75:THR:OG1	7:JJ:76:ASN:N	2.52	0.43
7:LJ:125:ASN:HD22	19:zJ:303:LEU:HD21	1.83	0.43
7:PJ:25:GLN:HA	7:PJ:28:LYS:HB2	2.01	0.43
7:XJ:1:MET:HE3	7:XJ:1:MET:HB2	1.80	0.43
6:cJ:54:GLU:OE2	6:cJ:137:ARG:NH1	2.50	0.43
6:cJ:106:ASP:HA	6:cJ:110:ILE:HB	2.00	0.43
7:hJ:75:THR:OG1	7:hJ:76:ASN:N	2.52	0.43
6:iJ:99:VAL:O	6:iJ:99:VAL:HG12	2.18	0.43
7:lJ:40:ALA:HB2	7:lJ:161:LEU:HD13	2.01	0.43
7:nJ:92:TYR:HB3	7:nJ:105:LEU:HD12	2.01	0.43
6:oJ:1:MET:HE2	7:pJ:10:VAL:CG2	2.47	0.43
16:wJ:64:MET:HE1	16:wJ:141:MET:HE1	2.00	0.43
16:xJ:239:ALA:O	16:xJ:243:VAL:HG23	2.17	0.43
19:zJ:135:VAL:O	19:zJ:138:SER:OG	2.32	0.43
4:EK:19:LEU:HD23	4:EK:19:LEU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:43:ALA:HB1	4:EK:142:LEU:HD21	2.01	0.43
5:HK:77:ARG:HH11	5:HK:77:ARG:HD3	1.56	0.43
5:HK:148:THR:HG21	29:HK:1002:PEB:HMA3	2.01	0.43
4:IK:73:ALA:HA	31:IK:1001:CYC:HBD2	2.00	0.43
5:NK:8:VAL:CG1	5:NK:19:LEU:HD11	2.48	0.43
7:VK:112:GLY:O	7:VK:116:THR:OG1	2.31	0.43
7:cK:115:GLU:HA	7:cK:118:ILE:HG12	2.00	0.43
6:AL:55:ALA:HB2	6:AL:134:THR:OG1	2.18	0.43
7:BL:84:ARG:NH2	7:BL:85:ASP:OD1	2.50	0.43
7:BL:118:ILE:CG2	7:TL:118:ILE:HD12	2.46	0.43
7:FL:75:THR:OG1	7:FL:76:ASN:N	2.52	0.43
7:HL:40:ALA:HB2	7:HL:161:LEU:HD13	2.01	0.43
7:JL:131:VAL:HG13	7:JL:169:PHE:HD1	1.83	0.43
6:KL:99:VAL:O	6:KL:99:VAL:HG12	2.18	0.43
7:NL:5:PHE:HZ	7:NL:31:ILE:CG1	2.31	0.43
6:WL:106:ASP:HA	6:WL:110:ILE:HB	2.00	0.43
7:ZL:92:TYR:HB3	7:ZL:105:LEU:HD12	2.01	0.43
6:iL:72:ALA:O	6:iL:78:LYS:HE3	2.19	0.43
7:IL:84:ARG:NH2	7:IL:85:ASP:OD1	2.50	0.43
7:HM:110:LEU:HD21	7:HM:172:VAL:HG13	2.00	0.43
6:EN:88:HIS:CD2	6:EN:91:ARG:HH21	2.36	0.43
7:FN:81:ALA:CB	14:MN:174:ARG:NH2	2.82	0.43
6:IN:42:GLU:HB3	7:JN:21:GLY:H	1.83	0.43
6:KN:3:SER:N	6:KN:6:THR:OG1	2.51	0.43
29:MN:405:PEB:NB	29:MN:405:PEB:NC	2.60	0.43
7:DO:53:SER:O	7:DO:57:SER:OG	2.27	0.43
7:JO:176:ILE:C	7:JO:176:ILE:HD12	2.43	0.43
20:AP:57:GLN:HB2	20:AP:132:CYS:HB3	2.00	0.43
21:DP:112:LEU:HD23	21:DP:160:LEU:HD13	2.01	0.43
21:LP:100:ASP:OD1	21:LP:101:PRO:HD2	2.18	0.43
21:QP:112:LEU:HD23	21:QP:160:LEU:HD13	2.01	0.43
20:RP:57:GLN:HB2	20:RP:132:CYS:HB3	2.00	0.43
21:UP:96:MET:HE3	21:UP:96:MET:HB3	1.91	0.43
22:VP:126:MET:HE1	31:VP:1001:CYC:H3C	2.00	0.43
23:WP:68:ARG:HB3	23:WP:69:PRO:HD2	2.01	0.43
27:aP:48:THR:CA	21:sP:64:ASP:OD2	2.66	0.43
20:cP:89:LEU:HB2	20:cP:133:MET:CE	2.48	0.43
20:cP:135:ASP:N	20:cP:135:ASP:OD1	2.51	0.43
21:fP:112:LEU:HD23	21:fP:160:LEU:HD13	2.01	0.43
20:mP:97:ILE:HD12	21:qP:19:LEU:HD13	2.00	0.43
23:yP:133:ILE:HG23	23:yP:165:ALA:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:zP:80:ARG:HH21	24:zP:87:LEU:HG	1.83	0.43
25:1P:483:ARG:HG3	25:1P:506:PRO:HD3	2.01	0.43
25:1P:720:LEU:O	25:1P:724:GLN:HG3	2.19	0.43
6:AQ:135:ARG:HH12	6:AQ:160:ILE:HD12	1.83	0.43
6:CQ:6:THR:O	14:MQ:140:VAL:HG23	2.19	0.43
6:CQ:78:LYS:HE2	29:CQ:201:PEB:HMB1	2.01	0.43
6:CQ:93:VAL:O	6:CQ:97:LEU:HB2	2.17	0.43
6:GQ:37:ARG:NH1	6:GQ:100:GLY:H	2.16	0.43
6:KQ:4:VAL:O	6:KQ:7:THR:OG1	2.30	0.43
6:MR:31:ILE:CD1	7:NR:38:LEU:HD11	2.47	0.43
7:NR:154:ALA:HB3	29:NR:202:PEB:C4B	2.49	0.43
6:OR:54:GLU:CD	29:OR:202:PEB:CMC	2.91	0.43
7:RR:2:LEU:HD22	7:RR:6:SER:HB2	2.01	0.43
7:TR:1:MET:HG3	7:TR:2:LEU:N	2.33	0.43
7:XR:154:ALA:HB3	29:XR:202:PEB:C4B	2.49	0.43
2:A1:266:CYS:HB2	29:A1:302:PEB:H3A1	1.83	0.43
3:B1:199:TRP:HD1	5:L1:70:GLY:O	2.01	0.43
5:D1:148:THR:HG21	29:D1:1002:PEB:HMA3	2.01	0.43
5:J1:22:THR:CG2	15:bB:331:ALA:O	2.66	0.43
5:J1:35:ASN:HA	5:J1:38:LEU:HD12	1.99	0.43
5:L1:144:ASP:HB2	4:G7:70:PRO:CB	2.49	0.43
5:N1:38:LEU:CD1	29:N1:1002:PEB:C3D	2.96	0.43
8:e2:279:ILE:HG13	8:e2:280:SER:N	2.32	0.43
6:M2:59:CYS:HB2	6:M2:130:SER:HB3	2.00	0.43
7:P2:1:MET:HG3	7:P2:2:LEU:N	2.33	0.43
7:P2:154:ALA:HB3	29:P2:201:PEB:C4B	2.49	0.43
6:Q2:33:ARG:HH11	6:Q2:147:GLN:HB3	1.83	0.43
6:Q2:33:ARG:O	6:Q2:33:ARG:HG2	2.19	0.43
6:Q2:59:CYS:HB2	6:Q2:130:SER:HB3	1.99	0.43
7:T2:124:THR:O	7:T2:128:ILE:HG13	2.18	0.43
7:V2:1:MET:HG3	7:V2:2:LEU:N	2.33	0.43
7:J3:59:MET:HE3	7:J3:59:MET:HB3	1.85	0.43
7:G4:102:ALA:HB2	7:G4:168:TYR:CD1	2.53	0.43
7:I4:26:ALA:HA	7:I4:29:SER:OG	2.19	0.43
6:L4:85:ASP:O	6:L4:88:HIS:HB2	2.19	0.43
7:M4:5:PHE:HD1	7:M4:27:LEU:HD21	1.84	0.43
7:I5:158:CYS:HB3	29:I5:202:PEB:HBA1	2.01	0.43
7:L5:104:VAL:HG23	4:I7:68:GLN:HE22	1.82	0.43
13:k6:147:ASP:OD1	13:k6:147:ASP:C	2.61	0.43
13:k6:200:LEU:CD2	5:H7:137:ALA:HB2	2.47	0.43
5:F7:12:ALA:O	5:F7:17:GLU:OE2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J7:77:ARG:HG3	4:M7:113:ALA:HB1	1.99	0.43
6:Q7:126:ALA:HB3	29:Q7:201:PEB:HMA1	2.01	0.43
7:V7:53:SER:O	7:V7:57:SER:OG	2.28	0.43
6:d7:5:ILE:O	6:d7:9:VAL:HG22	2.18	0.43
7:I8:72:MEN:CA	7:I8:78:ARG:HD3	2.46	0.43
7:A8:45:VAL:HG12	7:A8:91:ARG:HH22	1.84	0.43
12:E8:157:ILE:HD13	12:E8:157:ILE:HA	1.88	0.43
2:A9:268:TYR:OH	29:g9:201:PEB:O1C	2.30	0.43
5:D9:35:ASN:HB3	29:D9:1002:PEB:H1D1	2.00	0.43
5:D9:79:MET:HB3	4:G9:118:ILE:HD11	2.00	0.43
6:b9:34:SER:HA	6:b9:37:ARG:HG2	2.00	0.43
6:b9:126:ALA:HB3	29:b9:201:PEB:HMA1	2.01	0.43
7:e9:3:ASP:OD1	7:e9:6:SER:OG	2.31	0.43
7:m9:102:ALA:HB2	7:m9:168:TYR:CE1	2.53	0.43
7:FA:115:GLU:HA	7:FA:118:ILE:HG12	2.00	0.43
6:IA:39:GLU:OE2	6:IA:148:ALA:HB3	2.19	0.43
15:bB:102:MET:HE2	15:bB:102:MET:HB3	1.85	0.43
16:AB:215:ALA:HB3	30:AB:304:PUB:HAD2	2.00	0.43
6:IB:34:SER:OG	7:JB:31:ILE:HG21	2.18	0.43
7:NB:170:ASP:HA	28:bP:184:THR:HG22	2.01	0.43
7:ZB:110:LEU:HD21	7:ZB:172:VAL:HG13	2.00	0.43
7:cB:59:MET:HE2	7:cB:59:MET:HB3	1.88	0.43
6:hB:18:PHE:HD2	7:iB:45:VAL:HG12	1.84	0.43
6:AC:25:GLU:OE2	6:CC:33:ARG:HG3	2.18	0.43
6:EC:33:ARG:NE	6:EC:33:ARG:CA	2.81	0.43
7:LC:21:GLY:O	7:LC:25:GLN:NE2	2.41	0.43
18:MC:82:LEU:HD11	18:MC:120:ARG:NH2	2.34	0.43
6:DD:51:VAL:HG12	6:DD:137:ARG:NH1	2.31	0.43
6:DD:147:GLN:NE2	6:DD:150:VAL:HB	2.32	0.43
7:KD:2:LEU:HD22	7:KD:6:SER:HB2	2.00	0.43
7:KD:41:VAL:O	7:KD:45:VAL:HG12	2.18	0.43
7:KD:85:ASP:HB2	29:KD:201:PEB:HHA1	2.01	0.43
7:DE:51:MET:HE3	7:DE:137:GLN:CB	2.37	0.43
7:TF:106:GLU:OE2	7:TF:171:ARG:NH1	2.52	0.43
6:AG:93:VAL:HG21	6:AG:156:LEU:HD23	1.99	0.43
7:DG:139:VAL:HA	7:DG:142:ILE:HG12	2.00	0.43
7:FG:54:ASP:CG	29:FG:203:PEB:HHC1	2.44	0.43
6:GG:67:LYS:HB2	6:GG:67:LYS:HE2	1.88	0.43
7:HG:51:MET:HE2	7:HG:141:PHE:CD2	2.54	0.43
6:KG:33:ARG:HB3	6:KG:37:ARG:HB3	1.99	0.43
3:BI:210:GLU:C	27:aP:71:VAL:CG2	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:7:GLU:HG3	4:KI:22:THR:CG2	2.48	0.43
4:EI:33:ARG:HH12	29:LI:1002:PEB:C3D	2.32	0.43
6:dI:52:VAL:HG13	6:dI:86:VAL:CG1	2.47	0.43
7:FJ:140:ALA:HA	7:FJ:145:THR:HB	2.00	0.43
6:KJ:47:ASN:ND2	29:KJ:202:PEB:HMC1	2.32	0.43
6:KJ:99:VAL:O	6:KJ:99:VAL:HG12	2.18	0.43
7:LJ:27:LEU:HD21	28:4P:228:ILE:HG13	2.01	0.43
7:VJ:19:VAL:CG1	7:VJ:23:ASP:OD1	2.57	0.43
7:ZJ:111:ASN:CB	16:xJ:39:LEU:HD22	2.48	0.43
6:gJ:33:ARG:CD	6:iJ:25:GLU:HG2	2.48	0.43
6:kJ:20:SER:HB2	6:mJ:102:THR:HG21	2.00	0.43
7:nJ:75:THR:OG1	7:nJ:76:ASN:N	2.52	0.43
16:wJ:174:GLU:HG2	16:wJ:259:TYR:HD1	1.84	0.43
16:xJ:113:SER:O	16:xJ:117:LYS:N	2.50	0.43
7:VK:115:GLU:HA	7:VK:118:ILE:HG12	2.00	0.43
6:AL:30:ASN:OD1	6:AL:37:ARG:NH2	2.44	0.43
6:AL:99:VAL:O	6:AL:99:VAL:HG12	2.18	0.43
6:CL:30:ASN:OD1	6:CL:37:ARG:NH2	2.44	0.43
6:GL:53:LYS:HA	6:GL:53:LYS:HD3	1.90	0.43
6:IL:130:SER:O	6:IL:134:THR:OG1	2.36	0.43
7:JL:92:TYR:HB3	7:JL:105:LEU:HD12	2.01	0.43
7:NL:131:VAL:CG1	7:NL:169:PHE:HD1	2.32	0.43
6:SL:139:CYS:HB3	29:SL:202:PEB:H3A1	1.72	0.43
6:UL:71:GLU:N	6:UL:74:GLU:HG3	2.34	0.43
6:YL:24:LEU:O	6:aL:33:ARG:NH2	2.50	0.43
7:fL:75:THR:OG1	7:fL:76:ASN:N	2.52	0.43
7:hL:77:ARG:NH1	16:wL:212:ARG:HH22	2.17	0.43
7:hL:92:TYR:HB3	7:hL:105:LEU:HD12	2.01	0.43
7:lL:75:THR:OG1	7:lL:76:ASN:N	2.52	0.43
7:pL:40:ALA:HB2	7:pL:161:LEU:HD13	2.01	0.43
6:sL:106:ASP:HA	6:sL:110:ILE:HB	2.00	0.43
6:uL:14:ALA:O	16:xL:74:GLN:CG	2.66	0.43
16:xL:40:VAL:HG12	16:xL:41:ASN:H	1.84	0.43
19:zL:216:TYR:HE2	19:zL:225:GLN:OE1	2.01	0.43
15:bM:374:THR:CG2	21:oP:63:SER:HB2	2.48	0.43
7:LM:59:MET:HE2	7:LM:59:MET:HB3	1.88	0.43
7:LM:110:LEU:HD21	7:LM:172:VAL:HG13	2.00	0.43
7:NM:1:MET:HE3	7:NM:1:MET:HB2	1.89	0.43
7:RM:110:LEU:HD21	7:RM:172:VAL:HG13	2.00	0.43
6:UM:142:ARG:CD	14:MQ:112:LEU:O	2.67	0.43
6:YM:54:GLU:HG2	6:YM:133:TYR:CE2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:gM:61:CYS:HB3	29:gM:203:PEB:CBD	2.39	0.43
7:kM:61:CYS:HB3	29:kM:203:PEB:HAD1	1.44	0.43
6:GN:142:ARG:NH1	6:GN:143:ASP:OD1	2.52	0.43
6:IN:39:GLU:C	6:IN:39:GLU:CD	2.86	0.43
6:IN:110:ILE:HG23	6:IN:162:ALA:HB1	2.00	0.43
7:HO:144:ASN:ND2	7:HO:151:MET:O	2.46	0.43
7:LO:59:MET:HE3	7:LO:59:MET:HB3	1.86	0.43
20:AP:89:LEU:HB2	20:AP:133:MET:CE	2.48	0.43
21:IP:100:ASP:OD1	21:IP:101:PRO:HD2	2.18	0.43
20:NP:135:ASP:N	20:NP:135:ASP:OD1	2.51	0.43
27:aP:59:LYS:O	27:aP:61:ARG:HG3	2.19	0.43
21:kP:112:LEU:HD23	21:kP:160:LEU:HD13	2.01	0.43
20:mP:135:ASP:N	20:mP:135:ASP:OD1	2.51	0.43
21:nP:1:MET:HE1	22:xP:8:ILE:HG22	2.00	0.43
21:oP:112:LEU:HD23	21:oP:160:LEU:HD13	2.01	0.43
21:uP:82:ILE:CD1	26:2P:151:CYS:HB3	2.49	0.43
22:xP:2:SER:OG	22:xP:3:LEU:N	2.51	0.43
23:yP:23:GLY:O	23:yP:27:ILE:HG12	2.19	0.43
26:2P:58:ASP:OD1	26:2P:59:ALA:N	2.51	0.43
28:4P:158:ASP:N	28:4P:175:GLY:O	2.50	0.43
6:AQ:48:HIS:HB3	7:BQ:18:TYR:CE1	2.53	0.43
6:AQ:81:LYS:HA	6:AQ:84:ARG:HG2	2.01	0.43
7:DQ:51:MET:HE2	7:DQ:141:PHE:CD2	2.54	0.43
6:IQ:18:PHE:CD2	14:MQ:265:LYS:HB3	2.54	0.43
14:MQ:197:TYR:CE2	29:MQ:406:PEB:HAD1	2.48	0.43
7:NR:2:LEU:HD22	7:NR:6:SER:HB2	2.01	0.43
7:TR:16:ALA:HB2	7:XR:69:PRO:HG2	2.00	0.43
7:XR:124:THR:O	7:XR:128:ILE:HG13	2.18	0.43
4:E1:43:ALA:CB	4:E1:142:LEU:HD21	2.49	0.43
4:I1:3:THR:HG22	4:I1:101:VAL:CG2	2.48	0.43
4:M1:3:THR:HG22	4:M1:101:VAL:CG2	2.48	0.43
6:O1:137:ARG:HG3	29:O1:202:PEB:HHC1	2.00	0.43
6:U1:140:VAL:HG12	6:U1:146:ALA:HA	2.01	0.43
6:l1:54:GLU:OE2	6:l1:137:ARG:NH2	2.52	0.43
7:V2:2:LEU:HD22	7:V2:6:SER:HB2	2.00	0.43
7:V2:154:ALA:HB3	29:V2:202:PEB:C4B	2.49	0.43
6:C3:102:THR:O	6:C3:102:THR:HG23	2.18	0.43
6:B4:87:ASP:HA	6:B4:90:MET:HG2	2.00	0.43
7:E4:26:ALA:HA	7:E4:29:SER:OG	2.19	0.43
7:E4:157:ASP:OD1	7:E4:159:THR:HG23	2.18	0.43
7:G4:22:SER:OG	7:G4:23:ASP:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:26:ALA:HA	7:G4:29:SER:OG	2.19	0.43
7:G4:77:ARG:HE	7:G4:77:ARG:HB3	1.07	0.43
7:G4:131:VAL:HG21	7:G4:172:VAL:HG13	1.99	0.43
7:I4:41:VAL:HG11	7:I4:98:LEU:HD21	2.00	0.43
7:I4:41:VAL:O	7:I4:45:VAL:HG12	2.18	0.43
7:I4:58:GLY:HA3	29:I4:203:PEB:C2D	2.48	0.43
6:J4:113:ALA:O	6:J4:114:ARG:C	2.62	0.43
7:K4:24:LEU:HD23	7:K4:27:LEU:HD13	1.99	0.43
7:K4:39:ASP:OD1	29:K4:202:PEB:C1D	2.66	0.43
7:K4:85:ASP:HB2	29:K4:201:PEB:HHA1	2.01	0.43
6:L4:114:ARG:H	6:L4:114:ARG:HG3	1.57	0.43
7:C5:45:VAL:HG12	7:C5:91:ARG:HH22	1.84	0.43
7:C5:108:ARG:HA	7:C5:108:ARG:HD3	1.72	0.43
2:A7:146:ILE:HD12	2:A7:156:GLU:HG3	2.00	0.43
5:D7:35:ASN:HB3	29:D7:1002:PEB:H1D1	2.00	0.43
4:E7:104:THR:OG1	4:E7:104:THR:O	2.37	0.43
5:H7:35:ASN:HB3	29:H7:1002:PEB:H1D1	2.00	0.43
6:S7:22:SER:O	6:S7:26:SER:OG	2.35	0.43
6:h7:34:SER:HA	6:h7:37:ARG:HG2	2.00	0.43
6:h7:126:ALA:HB3	29:h7:201:PEB:HMA1	2.01	0.43
6:j7:99:VAL:CG2	7:k7:9:VAL:CG2	2.84	0.43
7:I8:21:GLY:C	7:I8:23:ASP:OD1	2.62	0.43
12:E8:161:SER:OG	12:E8:162:ASN:N	2.49	0.43
12:E8:162:ASN:HA	29:kF:203:PEB:CHB	2.49	0.43
12:E8:216:ALA:HB3	12:E8:237:GLN:HB3	1.99	0.43
1:X9:242:TYR:O	1:X9:246:THR:OG1	2.31	0.43
1:X9:264:GLU:CA	5:D9:115:GLU:CD	2.89	0.43
2:A9:146:ILE:HD12	2:A9:156:GLU:HG3	2.00	0.43
3:B9:52:ARG:HA	3:B9:60:ILE:HD11	2.01	0.43
4:E9:47:SER:OG	7:TR:159:THR:HG21	2.19	0.43
6:U9:5:ILE:O	6:U9:9:VAL:HG22	2.18	0.43
6:U9:69:PRO:CG	7:TR:123:PRO:N	2.57	0.43
6:d9:120:LEU:HD11	7:i9:79:MET:HE2	2.01	0.43
6:f9:34:SER:HA	6:f9:37:ARG:HG2	2.00	0.43
6:h9:5:ILE:O	6:h9:9:VAL:HG22	2.18	0.43
6:h9:53:LYS:HA	6:h9:53:LYS:HD3	1.71	0.43
6:h9:126:ALA:HB3	29:h9:201:PEB:HMA1	2.01	0.43
7:BA:82:CYS:HA	29:BA:201:PEB:CHA	2.48	0.43
6:GA:142:ARG:NH1	6:GA:143:ASP:OD1	2.52	0.43
15:bB:335:ILE:CG1	15:bB:337:PRO:HD2	2.40	0.43
17:BB:217:SER:HB3	6:UB:2:LYS:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LB:1:MET:HE3	7:LB:1:MET:HB2	1.89	0.43
6:FB:50:ALA:HB1	29:FB:202:PEB:HBC1	2.00	0.43
7:iB:110:LEU:HD21	7:iB:172:VAL:HG13	2.00	0.43
7:KB:46:SER:HB3	6:lB:157:ASP:OD2	2.19	0.43
29:CC:201:PEB:HHC2	7:HC:76:ASN:OD1	2.19	0.43
6:KC:136:ASP:OD1	6:KC:136:ASP:N	2.42	0.43
18:MC:105:LYS:HB2	18:MC:174:TYR:HE1	1.84	0.43
10:dD:68:LEU:O	10:dD:71:ARG:HB2	2.19	0.43
10:dD:103:PHE:CD2	10:dD:104:LEU:HD23	2.54	0.43
10:dD:198:TYR:O	10:dD:199:MET:HG2	2.19	0.43
29:dD:401:PEB:HHA1	7:ED:85:ASP:HB2	2.01	0.43
6:BD:85:ASP:O	6:BD:88:HIS:HB2	2.19	0.43
6:FD:58:ALA:O	6:FD:61:ALA:HB3	2.18	0.43
7:GD:75:THR:CB	29:JD:201:PEB:CAD	2.95	0.43
6:LD:156:LEU:O	6:LD:160:ILE:HG13	2.17	0.43
6:GE:136:ASP:OD1	6:GE:136:ASP:N	2.42	0.43
7:LE:55:ALA:CB	7:LE:134:MET:SD	3.02	0.43
1:XF:291:THR:HG21	5:DF:107:ASP:HB3	2.00	0.43
7:cF:129:ARG:NH1	7:cF:132:SER:OG	2.51	0.43
7:eF:56:VAL:O	7:eF:56:VAL:HG22	2.19	0.43
6:AG:81:LYS:HA	6:AG:84:ARG:HG2	2.01	0.43
6:EG:81:LYS:HG2	6:EG:84:ARG:HE	1.83	0.43
7:FG:143:THR:OG1	7:FG:145:THR:OG1	2.33	0.43
6:GG:78:LYS:HE2	29:GG:201:PEB:HMB1	2.00	0.43
6:IG:81:LYS:HA	6:IG:84:ARG:HG2	2.01	0.43
13:kH:33:LYS:H	13:kH:33:LYS:HG2	1.68	0.43
13:kH:162:GLU:HA	13:kH:162:GLU:OE2	2.19	0.43
1:XI:174:TYR:HA	1:XI:177:PHE:HB3	2.01	0.43
3:BI:204:ARG:NE	31:PP:1001:CYC:CGD	2.80	0.43
4:CI:7:GLU:OE2	4:MI:22:THR:CG2	2.50	0.43
4:II:69:MET:HE3	4:II:69:MET:HB2	1.87	0.43
7:PI:24:LEU:HD23	7:PI:24:LEU:HA	1.89	0.43
7:TI:106:GLU:OE2	7:TI:171:ARG:NH1	2.52	0.43
7:BJ:131:VAL:CG1	7:BJ:169:PHE:HD1	2.32	0.43
7:HJ:75:THR:OG1	7:HJ:76:ASN:N	2.52	0.43
29:HJ:202:PEB:HBA2	29:HJ:202:PEB:H2A1	1.91	0.43
6:KJ:44:LEU:O	6:KJ:48:HIS:HB3	2.18	0.43
7:TJ:40:ALA:HB2	7:TJ:161:LEU:HD13	2.01	0.43
7:dJ:92:TYR:HB3	7:dJ:105:LEU:HD12	2.01	0.43
6:eJ:99:VAL:O	6:eJ:99:VAL:HG12	2.18	0.43
6:iJ:73:GLY:C	6:iJ:78:LYS:HG3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:jJ:40:ALA:HB2	7:jJ:161:LEU:HD13	2.01	0.43
7:jJ:131:VAL:HG13	7:jJ:169:PHE:HD1	1.83	0.43
7:lJ:75:THR:OG1	7:lJ:76:ASN:N	2.52	0.43
7:nJ:77:ARG:NH1	16:xJ:99:ARG:NH2	2.66	0.43
6:qJ:106:ASP:HA	6:qJ:110:ILE:HB	2.00	0.43
16:xJ:61:ASP:HB3	16:xJ:147:LYS:HB2	2.00	0.43
16:xJ:152:MET:HE3	16:xJ:152:MET:HB2	1.78	0.43
19:zJ:366:ARG:NE	21:nP:61:LEU:HD23	2.32	0.43
3:BK:55:PHE:HE1	3:BK:93:PHE:HB2	1.83	0.43
3:BK:224:MET:HG2	20:cP:82:LEU:HD13	2.01	0.43
5:DK:139:VAL:O	5:DK:139:VAL:HG12	2.17	0.43
5:FK:40:ILE:HG13	29:FK:1002:PEB:CBA	2.43	0.43
4:MK:3:THR:O	4:MK:6:THR:OG1	2.37	0.43
5:NK:94:SER:O	5:NK:98:ILE:HG12	2.19	0.43
6:dK:137:ARG:HG3	29:dK:202:PEB:HHC1	2.00	0.43
6:jK:137:ARG:HG3	29:jK:202:PEB:HHC1	2.00	0.43
7:BL:92:TYR:HB3	7:BL:105:LEU:HD12	2.01	0.43
7:BL:112:GLY:O	7:BL:116:THR:OG1	2.32	0.43
7:JL:75:THR:OG1	7:JL:76:ASN:N	2.52	0.43
7:LL:64:PRO:HD3	19:zL:368:ALA:HB1	1.99	0.43
29:LL:202:PEB:HBA2	29:LL:202:PEB:H2A1	1.91	0.43
29:NL:203:PEB:HBA2	29:NL:203:PEB:H2A1	1.91	0.43
7:PL:40:ALA:HB2	7:PL:161:LEU:HD13	2.01	0.43
7:TL:1:MET:HE3	7:TL:104:VAL:HB	1.99	0.43
7:XL:40:ALA:HB2	7:XL:161:LEU:HD13	2.01	0.43
7:XL:131:VAL:CG1	7:XL:169:PHE:HD1	2.32	0.43
6:YL:106:ASP:HA	6:YL:110:ILE:HB	2.00	0.43
6:YL:140:VAL:HG21	6:YL:146:ALA:HA	2.00	0.43
6:gL:30:ASN:OD1	6:gL:37:ARG:NH2	2.44	0.43
6:oL:91:ARG:HD2	7:pL:17:ALA:N	2.33	0.43
7:rL:35:ASN:OD1	29:rL:202:PEB:ND	2.48	0.43
16:xL:105:ARG:HH12	29:xL:303:PEB:HBB2	0.81	0.43
19:zL:135:VAL:O	19:zL:138:SER:OG	2.32	0.43
17:BM:89:PHE:HB3	17:BM:172:LEU:HD13	2.00	0.43
7:NM:62:GLU:CD	28:4P:124:ASN:ND2	2.75	0.43
7:PM:110:LEU:HD21	7:PM:172:VAL:HG13	2.00	0.43
7:RM:59:MET:HE2	7:RM:59:MET:HB3	1.89	0.43
7:XM:110:LEU:HD21	7:XM:172:VAL:HG13	2.00	0.43
6:dM:6:THR:HG22	7:eM:1:MET:HE2	2.00	0.43
7:gM:129:ARG:HD2	7:gM:129:ARG:HA	1.90	0.43
7:BN:43:SER:O	7:BN:46:SER:OG	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CN:142:ARG:NH1	6:CN:143:ASP:OD1	2.52	0.43
7:DN:115:GLU:HA	7:DN:118:ILE:HG12	2.00	0.43
6:IN:39:GLU:OE2	6:IN:148:ALA:HB3	2.19	0.43
7:DO:144:ASN:ND2	7:DO:151:MET:O	2.46	0.43
7:NO:54:ASP:HB3	7:NO:137:GLN:HE22	1.83	0.43
21:BP:112:LEU:HD23	21:BP:160:LEU:HD13	2.01	0.43
21:LP:9:ILE:HG12	22:VP:97:LEU:HD23	1.99	0.43
21:UP:72:MET:HA	21:UP:77:ARG:HB2	1.97	0.43
21:dP:75:THR:CG2	20:gP:108:GLY:HA2	2.49	0.43
24:zP:104:GLU:CD	24:zP:107:ARG:HH21	2.26	0.43
28:4P:60:ASP:OD1	28:4P:60:ASP:N	2.49	0.43
7:BQ:51:MET:HE2	7:BQ:141:PHE:CD2	2.54	0.43
7:BQ:55:ALA:HB2	7:BQ:134:MET:HE3	2.01	0.43
7:JQ:51:MET:HE2	7:JQ:141:PHE:CD2	2.54	0.43
7:JQ:55:ALA:HB2	7:JQ:134:MET:HE3	2.01	0.43
7:JQ:157:ASP:OD2	7:JQ:159:THR:OG1	2.27	0.43
6:KQ:27:ILE:HD11	7:LQ:38:LEU:HD21	2.01	0.43
6:KQ:78:LYS:HE2	29:KQ:201:PEB:HMB1	2.01	0.43
7:LQ:113:LEU:O	7:LQ:116:THR:OG1	2.29	0.43
6:MR:16:GLY:HA2	7:NR:91:ARG:NH1	2.34	0.43
6:MR:142:ARG:HH22	29:MR:202:PEB:CAB	2.26	0.43
6:OR:23:ASP:O	6:OR:26:SER:OG	2.36	0.43
6:OR:33:ARG:HG2	6:OR:33:ARG:O	2.19	0.43
6:OR:77:GLU:C	6:OR:77:GLU:OE1	2.62	0.43
6:QR:1:MET:HG3	7:RR:2:LEU:HD23	1.99	0.43
6:WR:33:ARG:HH11	6:WR:147:GLN:HB3	1.83	0.43
3:B1:204:ARG:O	3:B1:205:ARG:C	2.61	0.43
5:D1:39:ASP:N	29:D1:1002:PEB:HMD1	2.34	0.43
4:E1:49:GLN:HG3	6:Q7:53:LYS:HD2	1.13	0.43
4:I1:73:ALA:HA	31:I1:1001:CYC:HBD2	2.00	0.43
5:N1:94:SER:O	5:N1:98:ILE:HG12	2.19	0.43
7:V1:1:MET:HE3	7:V1:104:VAL:HB	2.01	0.43
29:W1:202:PEB:HBA3	29:W1:202:PEB:H2A1	1.89	0.43
6:b1:52:VAL:CG1	6:b1:86:VAL:HG12	2.33	0.43
7:g1:151:MET:HE2	7:g1:151:MET:HB3	1.90	0.43
6:h1:137:ARG:HG3	29:h1:202:PEB:HHC1	2.00	0.43
6:M2:77:GLU:C	6:M2:77:GLU:OE1	2.62	0.43
6:Q2:91:ARG:NH1	7:R2:16:ALA:HA	2.33	0.43
6:S2:81:LYS:CE	29:S2:201:PEB:HAB2	2.46	0.43
6:S2:90:MET:HE1	6:S2:156:LEU:HD21	2.00	0.43
6:U2:33:ARG:HG2	6:U2:33:ARG:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W2:140:VAL:CG1	6:W2:146:ALA:HA	2.48	0.43
6:I3:40:ALA:HB2	6:I3:148:ALA:HB1	1.99	0.43
9:O3:295:ASP:OD1	9:O3:295:ASP:N	2.42	0.43
10:d4:91:GLU:OE1	10:d4:94:ALA:HB3	2.19	0.43
6:D4:85:ASP:O	6:D4:88:HIS:HB2	2.19	0.43
7:E4:28:LYS:HE2	7:E4:28:LYS:HB2	1.56	0.43
6:F4:113:ALA:O	6:F4:114:ARG:C	2.62	0.43
7:I4:149:ARG:O	7:I4:150:LYS:HD2	2.18	0.43
7:I5:9:VAL:HG22	28:bP:132:PRO:O	2.18	0.43
12:E5:186:PRO:HG2	6:bI:57:ASP:CA	2.37	0.43
13:k6:10:TYR:CZ	6:YB:53:LYS:HD3	2.52	0.43
2:A7:39:SER:O	7:Y7:91:ARG:NH2	2.52	0.43
3:B7:165:ARG:NH2	3:B7:166:ILE:HD11	2.33	0.43
5:D7:88:ILE:HG21	31:D7:1001:CYC:HAB2	2.01	0.43
5:F7:75:THR:OG1	5:F7:78:ARG:HB2	2.19	0.43
5:H7:88:ILE:HG21	31:H7:1001:CYC:HAB2	2.01	0.43
5:L7:35:ASN:HB3	29:L7:1002:PEB:H1D1	2.01	0.43
5:N7:30:MET:HE1	26:2P:98:ALA:HB1	2.01	0.43
6:l7:22:SER:O	6:l7:26:SER:OG	2.35	0.43
7:G8:59:MET:HE2	7:G8:59:MET:HB3	1.84	0.43
7:H8:110:LEU:HD21	7:H8:172:VAL:HG12	2.00	0.43
7:I8:24:LEU:CD1	19:zJ:295:LYS:HE2	2.47	0.43
7:I8:28:LYS:CD	19:zJ:291:ILE:HG12	2.47	0.43
7:I8:158:CYS:HB3	29:I8:202:PEB:HBA1	2.01	0.43
6:J8:15:ALA:HB3	6:J8:17:ARG:HG2	2.01	0.43
29:L8:201:PEB:HBC2	13:kH:195:ARG:HH12	1.70	0.43
12:E8:164:VAL:HG23	29:kF:203:PEB:OD	2.19	0.43
5:F9:88:ILE:HG21	31:F9:1001:CYC:HAB2	2.01	0.43
5:L9:159:GLU:HB2	27:3P:240:TYR:CD2	2.54	0.43
6:W9:5:ILE:O	6:W9:9:VAL:HG22	2.18	0.43
6:b9:5:ILE:O	6:b9:9:VAL:HG22	2.18	0.43
6:h9:22:SER:O	6:h9:26:SER:OG	2.35	0.43
6:AA:3:SER:N	6:AA:6:THR:OG1	2.51	0.43
6:CA:110:ILE:HG23	6:CA:162:ALA:HB1	2.00	0.43
6:EA:33:ARG:HB2	6:GA:25:GLU:CD	2.43	0.43
7:FA:24:LEU:HD23	7:FA:24:LEU:HA	1.76	0.43
6:IA:142:ARG:NH1	6:IA:143:ASP:OD1	2.52	0.43
6:KA:139:CYS:N	6:KA:143:ASP:OD2	2.51	0.43
15:bB:373:GLU:OE1	21:MP:124:GLY:O	2.30	0.43
6:GB:48:HIS:O	6:GB:52:VAL:HG23	2.18	0.43
29:NB:202:PEB:HBA2	29:NB:202:PEB:H2A1	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:OB:154:ALA:HB3	6:QB:21:ASN:HD21	1.84	0.43
7:VB:60:ILE:C	7:VB:62:GLU:H	2.27	0.43
6:aB:9:VAL:HG13	7:cB:95:TYR:CD1	2.54	0.43
6:fB:135:ARG:NH1	6:fB:157:ASP:OD1	2.39	0.43
6:jB:147:GLN:CA	6:jB:147:GLN:HE21	2.31	0.43
7:kB:81:ALA:O	7:kB:85:ASP:CB	2.49	0.43
6:GC:81:LYS:NZ	29:GC:201:PEB:O2C	2.41	0.43
18:MC:141:ARG:NE	18:MC:173:GLU:OE1	2.50	0.43
6:DD:139:CYS:HB3	6:DD:141:PRO:HD2	2.01	0.43
29:ED:201:PEB:O1B	29:ED:201:PEB:HBB1	2.18	0.43
6:FD:85:ASP:O	6:FD:88:HIS:HB2	2.19	0.43
7:GD:50:CYS:CB	29:GD:203:PEB:CMA	2.93	0.43
7:GD:85:ASP:HB2	29:GD:201:PEB:HHA1	2.01	0.43
7:GD:136:ALA:CB	29:GD:203:PEB:O2C	2.67	0.43
7:ID:2:LEU:HD22	7:ID:6:SER:HB2	2.00	0.43
7:MD:136:ALA:CB	29:MD:203:PEB:O2C	2.67	0.43
6:AE:144:MET:HB3	6:AE:144:MET:HE3	1.66	0.43
3:BF:97:ASN:O	3:BF:101:ASN:ND2	2.50	0.43
29:FF:1002:PEB:HMC1	4:KF:145:GLN:NE2	2.34	0.43
7:TF:56:VAL:CG1	7:TF:79:MET:HE1	2.49	0.43
7:cF:1:MET:HB3	7:cF:2:LEU:H	1.56	0.43
7:FG:51:MET:HE2	7:FG:141:PHE:CD2	2.54	0.43
29:FG:202:PEB:OD	6:GG:33:ARG:NH1	2.52	0.43
7:LG:58:GLY:HA2	29:LG:203:PEB:HMD3	1.92	0.43
13:kH:134:ILE:HD11	13:kH:143:ALA:HB3	2.01	0.43
7:RI:3:ASP:OD1	7:RI:6:SER:OG	2.30	0.43
7:RI:56:VAL:CG1	7:RI:79:MET:HE1	2.49	0.43
7:RI:70:GLY:HA3	7:KI:125:ASN:HB3	2.00	0.43
7:RI:129:ARG:HA	7:RI:129:ARG:HD2	1.92	0.43
7:TI:24:LEU:HD23	7:TI:24:LEU:HA	1.89	0.43
6:AJ:140:VAL:CG2	6:AJ:146:ALA:HA	2.49	0.43
6:IJ:99:VAL:O	6:IJ:99:VAL:HG12	2.18	0.43
7:RJ:92:TYR:HB3	7:RJ:105:LEU:HD12	2.01	0.43
7:RJ:124:THR:O	7:RJ:127:SER:OG	2.26	0.43
7:TJ:129:ARG:HA	7:TJ:129:ARG:HD2	1.81	0.43
7:bJ:75:THR:OG1	7:bJ:76:ASN:N	2.52	0.43
7:fJ:40:ALA:HB2	7:fJ:161:LEU:HD13	2.01	0.43
6:oJ:90:MET:HB2	7:pJ:18:TYR:OH	2.19	0.43
6:oJ:99:VAL:O	6:oJ:99:VAL:HG12	2.18	0.43
6:sJ:10:SER:CB	16:xJ:82:TYR:H	2.16	0.43
6:sJ:139:CYS:HB3	29:sJ:202:PEB:H3A1	1.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:tJ:92:TYR:HB3	7:tJ:105:LEU:HD12	2.01	0.43
7:tJ:158:CYS:HB3	29:uJ:201:PEB:HBA1	1.88	0.43
7:vJ:131:VAL:HG13	7:vJ:169:PHE:HD1	1.83	0.43
16:xJ:105:ARG:NH1	29:xJ:303:PEB:CAB	2.46	0.43
17:yJ:156:LEU:HD11	17:yJ:177:LEU:HD13	2.00	0.43
19:zJ:41:ALA:O	19:zJ:43:ARG:NH1	2.52	0.43
4:CK:37:SER:CB	4:CK:149:GLU:HG2	2.49	0.43
5:FK:77:ARG:NH1	5:FK:78:ARG:HG2	2.33	0.43
4:MK:3:THR:HG22	4:MK:101:VAL:CG2	2.48	0.43
7:PK:3:ASP:CG	7:PK:99:ALA:HB1	2.41	0.43
7:RK:115:GLU:HA	7:RK:118:ILE:HG12	2.00	0.43
6:SK:137:ARG:HG3	29:SK:202:PEB:HHC1	2.00	0.43
7:TK:115:GLU:HA	7:TK:118:ILE:HG12	2.00	0.43
6:ZK:137:ARG:HG3	29:ZK:203:PEB:HHC1	2.00	0.43
6:IK:137:ARG:HG3	29:IK:202:PEB:HHC1	2.00	0.43
7:FL:7:ARG:O	7:FL:11:ASN:OD1	2.37	0.43
7:HL:25:GLN:C	7:HL:27:LEU:N	2.77	0.43
7:NL:1:MET:HE3	7:NL:1:MET:HB2	1.80	0.43
7:PL:25:GLN:HA	7:PL:28:LYS:HB2	2.01	0.43
7:RL:92:TYR:HB3	7:RL:105:LEU:HD12	2.01	0.43
6:SL:67:LYS:NZ	26:ZP:121:VAL:HG12	2.26	0.43
6:SL:106:ASP:HA	6:SL:110:ILE:HB	2.00	0.43
7:VL:92:TYR:HB3	7:VL:105:LEU:HD12	2.01	0.43
6:aL:99:VAL:O	6:aL:99:VAL:HG12	2.18	0.43
7:bL:75:THR:OG1	7:bL:76:ASN:N	2.52	0.43
7:dL:131:VAL:CG1	7:dL:169:PHE:HD1	2.32	0.43
6:iL:106:ASP:HA	6:iL:110:ILE:HB	2.00	0.43
7:IL:35:ASN:OD1	29:IL:202:PEB:ND	2.48	0.43
6:mL:98:VAL:O	7:nL:5:PHE:HD2	2.02	0.43
7:pL:84:ARG:NH2	7:pL:85:ASP:OD1	2.50	0.43
16:xL:174:GLU:HG2	16:xL:259:TYR:HD1	1.84	0.43
6:EN:110:ILE:HG23	6:EN:162:ALA:HB1	2.00	0.43
7:JN:82:CYS:HA	29:JN:201:PEB:CHA	2.48	0.43
6:KN:88:HIS:CD2	6:KN:91:ARG:HH21	2.36	0.43
6:GO:76:GLN:NE2	6:GO:80:ASN:OD1	2.50	0.43
9:OO:295:ASP:OD1	9:OO:295:ASP:N	2.42	0.43
20:AP:30:VAL:HG12	21:BP:31:PHE:HD1	1.84	0.43
20:GP:57:GLN:HB2	20:GP:132:CYS:HB3	2.00	0.43
21:IP:60:LEU:HD13	21:IP:72:MET:SD	2.59	0.43
21:LP:3:ASP:OD1	22:VP:5:THR:OG1	2.36	0.43
20:PP:8:ILE:HD11	21:UP:97:LEU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:PP:44:THR:HG23	21:UP:18:TYR:HD2	1.83	0.43
20:RP:68:PRO:CB	20:gP:66:VAL:CG2	2.97	0.43
20:TP:32:SER:CB	27:aP:153:PHE:HA	2.49	0.43
24:XP:80:ARG:HH21	24:XP:87:LEU:HG	1.83	0.43
25:YP:767:LYS:HE2	25:YP:767:LYS:HB3	1.81	0.43
27:aP:175:THR:O	27:aP:178:VAL:HG22	2.19	0.43
27:aP:259:LYS:O	27:aP:261:LYS:HE3	2.19	0.43
20:iP:89:LEU:HB2	20:iP:133:MET:CE	2.49	0.43
21:jP:19:LEU:HG	25:1P:161:TYR:HE1	1.84	0.43
21:jP:71:MEN:O	21:jP:77:ARG:HD3	2.19	0.43
20:lP:151:PHE:HB3	20:pP:20:PRO:CB	2.47	0.43
21:uP:100:ASP:OD1	21:uP:101:PRO:HD2	2.18	0.43
27:3P:103:VAL:HG23	27:3P:104:LEU:H	1.84	0.43
6:CQ:81:LYS:HA	6:CQ:84:ARG:HG2	2.01	0.43
6:GQ:78:LYS:HE2	29:GQ:201:PEB:HMB1	2.00	0.43
6:GQ:135:ARG:HH12	6:GQ:160:ILE:HD12	1.83	0.43
7:LQ:51:MET:HE2	7:LQ:141:PHE:CD2	2.54	0.43
29:NR:202:PEB:HHC1	29:NR:202:PEB:HMD3	1.77	0.43
6:SR:43:LYS:HD3	6:SR:43:LYS:HA	1.77	0.43
6:WR:33:ARG:O	6:WR:33:ARG:HG2	2.19	0.43
6:WR:142:ARG:NH2	29:WR:202:PEB:CHA	2.82	0.43
2:A1:101:ILE:O	2:A1:101:ILE:HG12	2.11	0.43
3:B1:227:GLU:HA	3:B1:227:GLU:OE2	2.18	0.43
31:D1:1003:CYC:HBD2	4:G1:73:ALA:HA	2.00	0.43
4:G1:3:THR:HG22	4:G1:101:VAL:CG2	2.48	0.43
5:L1:148:THR:HG21	29:L1:1002:PEB:HMA3	2.01	0.43
7:a1:129:ARG:HA	7:a1:129:ARG:HD2	1.88	0.43
7:e1:1:MET:HE3	7:e1:104:VAL:HB	2.01	0.43
6:l1:137:ARG:HG3	29:l1:202:PEB:HHC1	2.00	0.43
6:O2:33:ARG:O	6:O2:33:ARG:HG2	2.19	0.43
7:R2:154:ALA:HB3	29:R2:202:PEB:C4B	2.49	0.43
7:X2:1:MET:HG3	7:X2:2:LEU:N	2.33	0.43
6:I3:21:ASN:HD21	6:K3:151:GLU:HB2	1.82	0.43
7:M3:141:PHE:HZ	29:M3:203:PEB:HMA3	1.84	0.43
10:d4:68:LEU:O	10:d4:71:ARG:HB2	2.19	0.43
10:d4:152:GLN:HE21	29:E4:201:PEB:CGC	2.31	0.43
6:B4:25:GLU:OE2	6:D4:29:GLY:O	2.37	0.43
6:D4:87:ASP:HA	6:D4:90:MET:HG2	2.00	0.43
7:E4:5:PHE:HD1	7:E4:27:LEU:HD21	1.84	0.43
29:G4:202:PEB:O1B	29:G4:202:PEB:HHB1	2.18	0.43
6:H4:33:ARG:NH1	6:H4:33:ARG:CB	2.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:85:ASP:O	6:H4:88:HIS:HB2	2.19	0.43
6:H4:92:LEU:HD21	6:H4:108:TRP:HE3	1.84	0.43
6:H4:139:CYS:HB3	6:H4:141:PRO:HD2	2.01	0.43
7:I4:58:GLY:HA2	29:I4:203:PEB:C3D	2.47	0.43
6:J4:87:ASP:HA	6:J4:90:MET:HG2	2.00	0.43
7:M4:125:ASN:OD1	6:UF:69:PRO:HG3	2.19	0.43
7:G5:110:LEU:HD21	7:G5:172:VAL:HG12	2.00	0.43
7:I5:30:PHE:CD2	28:bP:132:PRO:HD3	2.47	0.43
7:I5:59:MET:HE2	7:I5:130:ALA:HB2	2.00	0.43
7:L5:148:GLU:OE2	29:L5:203:PEB:NA	2.49	0.43
13:k6:61:ARG:NH1	7:V7:150:LYS:HE3	2.34	0.43
6:O7:126:ALA:HB3	29:O7:201:PEB:HMA1	2.01	0.43
6:b7:34:SER:HA	6:b7:37:ARG:HG2	2.00	0.43
7:k7:150:LYS:HZ1	7:G8:149:ARG:CD	2.30	0.43
7:I8:158:CYS:SG	29:I8:202:PEB:C4A	3.06	0.43
4:C9:57:GLN:CD	4:GI:61:ASN:OD1	2.62	0.43
6:AA:37:ARG:NE	6:AA:97:LEU:O	2.52	0.43
7:HA:113:LEU:O	7:HA:116:THR:OG1	2.29	0.43
6:KA:7:THR:HA	30:MA:402:PUB:CGB	2.49	0.43
15:bB:311:GLN:OE1	28:bP:40:ARG:HG3	2.18	0.43
7:FB:59:MET:HE2	7:FB:59:MET:HB3	1.89	0.43
6:UB:50:ALA:HB1	29:UB:202:PEB:HBC1	2.00	0.43
6:dB:144:MET:HE2	6:dB:144:MET:HB3	1.96	0.43
7:JC:21:GLY:O	7:JC:25:GLN:NE2	2.41	0.43
18:MC:56:VAL:CG2	18:MC:59:GLU:OE1	2.65	0.43
6:BD:25:GLU:OE2	6:DD:29:GLY:O	2.37	0.43
6:DD:16:GLY:C	7:ED:91:ARG:HH22	2.26	0.43
7:GD:157:ASP:OD1	7:GD:159:THR:HG23	2.18	0.43
7:ID:26:ALA:HA	7:ID:29:SER:OG	2.19	0.43
7:ID:93:VAL:HG11	7:ID:169:PHE:CE2	2.53	0.43
6:JD:85:ASP:O	6:JD:88:HIS:HB2	2.19	0.43
6:JD:92:LEU:HD21	6:JD:108:TRP:HE3	1.84	0.43
7:KD:5:PHE:HD1	7:KD:27:LEU:HD21	1.84	0.43
7:MD:26:ALA:HA	7:MD:29:SER:OG	2.19	0.43
6:CE:18:PHE:CD2	7:DE:91:ARG:HG3	2.53	0.43
6:EE:106:ASP:HA	6:EE:110:ILE:HB	2.01	0.43
4:CF:7:GLU:OE2	4:MF:22:THR:CG2	2.50	0.43
4:CF:8:ALA:HB1	4:CF:23:GLU:HB3	2.01	0.43
4:KF:69:MET:HE3	4:KF:69:MET:HB2	1.87	0.43
6:SF:140:VAL:HG22	6:SF:146:ALA:HA	2.00	0.43
7:TF:56:VAL:HG12	7:TF:79:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cF:3:ASP:OD1	7:cF:3:ASP:N	2.46	0.43
7:BG:55:ALA:HB2	7:BG:134:MET:HE3	2.01	0.43
6:CG:33:ARG:HD3	6:CG:37:ARG:HB3	2.00	0.43
7:FG:139:VAL:HA	7:FG:142:ILE:HG12	2.00	0.43
7:FG:140:ALA:CB	29:FG:203:PEB:HAB2	2.49	0.43
7:HG:111:ASN:H	14:MG:298:ARG:HH22	1.67	0.43
6:KG:81:LYS:HA	6:KG:84:ARG:HG2	2.00	0.43
7:LG:113:LEU:HB2	14:MG:236:TYR:CD1	2.53	0.43
3:BI:31:ILE:H	3:BI:31:ILE:HG12	1.56	0.43
5:HI:74:TYR:C	5:HI:75:THR:HG23	2.40	0.43
5:JI:11:GLN:NE2	27:aP:119:ALA:CB	2.82	0.43
7:TI:3:ASP:OD1	7:TI:3:ASP:N	2.46	0.43
7:gI:3:ASP:OD1	7:gI:6:SER:OG	2.30	0.43
7:mI:103:SER:O	7:mI:103:SER:OG	2.36	0.43
7:BJ:19:VAL:CG1	7:BJ:23:ASP:OD1	2.57	0.43
7:BJ:131:VAL:HG13	7:BJ:169:PHE:HD1	1.83	0.43
7:LJ:40:ALA:HB2	7:LJ:161:LEU:HD13	2.01	0.43
7:PJ:75:THR:OG1	7:PJ:76:ASN:N	2.52	0.43
6:QJ:30:ASN:OD1	6:QJ:37:ARG:NH2	2.44	0.43
7:TJ:131:VAL:CG1	7:TJ:169:PHE:HD1	2.32	0.43
6:UJ:33:ARG:CD	6:WJ:25:GLU:HG2	2.49	0.43
7:ZJ:129:ARG:HD2	7:ZJ:129:ARG:HA	1.82	0.43
7:fJ:129:ARG:HA	7:fJ:129:ARG:HD2	1.82	0.43
7:fJ:131:VAL:CG1	7:fJ:169:PHE:HD1	2.32	0.43
29:nJ:201:PEB:OD	16:xJ:104:SER:OG	2.27	0.43
7:vJ:92:TYR:HB3	7:vJ:105:LEU:HD12	2.01	0.43
1:XK:192:ASP:C	1:XK:194:GLU:N	2.77	0.43
4:EK:9:ILE:HG21	5:FK:104:VAL:HG21	2.01	0.43
4:EK:145:GLN:HE21	29:LK:1002:PEB:CMC	2.32	0.43
4:GK:73:ALA:HA	31:GK:1001:CYC:HBD2	2.00	0.43
4:KK:28:ASN:O	4:KK:32:GLN:HG2	2.19	0.43
5:NK:8:VAL:HG11	5:NK:19:LEU:HD11	2.01	0.43
7:PK:115:GLU:HA	7:PK:118:ILE:HG12	2.00	0.43
7:RK:112:GLY:O	7:RK:116:THR:OG1	2.31	0.43
6:ZK:140:VAL:HG12	6:ZK:146:ALA:HA	2.01	0.43
6:CL:99:VAL:O	6:CL:99:VAL:HG12	2.18	0.43
7:FL:113:LEU:HD13	29:FL:201:PEB:HMD1	2.00	0.43
6:KL:44:LEU:O	6:KL:48:HIS:HB3	2.18	0.43
7:LL:125:ASN:HD22	19:zL:303:LEU:HD21	1.83	0.43
7:NL:129:ARG:HD2	7:NL:129:ARG:HA	1.82	0.43
7:RL:131:VAL:CG1	7:RL:169:PHE:HD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WL:30:ASN:OD1	6:WL:37:ARG:NH2	2.44	0.43
6:YL:99:VAL:O	6:YL:99:VAL:HG12	2.18	0.43
7:bL:40:ALA:HB2	7:bL:161:LEU:HD13	2.01	0.43
7:bL:131:VAL:CG1	7:bL:169:PHE:HD1	2.32	0.43
6:cL:137:ARG:HD3	6:cL:137:ARG:O	2.19	0.43
7:dL:92:TYR:HB3	7:dL:105:LEU:HD12	2.01	0.43
7:fL:92:TYR:HB3	7:fL:105:LEU:HD12	2.01	0.43
6:gL:99:VAL:O	6:gL:99:VAL:HG12	2.18	0.43
6:qL:106:ASP:HA	6:qL:110:ILE:HB	2.00	0.43
6:sL:30:ASN:OD1	6:sL:37:ARG:NH2	2.44	0.43
7:tL:92:TYR:HB3	7:tL:105:LEU:HD12	2.01	0.43
7:vL:92:TYR:HB3	7:vL:105:LEU:HD12	2.01	0.43
16:AM:215:ALA:HB3	30:AM:304:PUB:HAD2	2.00	0.43
16:AM:234:ARG:HD3	16:AM:234:ARG:HA	1.78	0.43
7:NM:50:CYS:HB3	29:NM:202:PEB:H3A1	1.99	0.43
6:UM:116:VAL:HG11	7:ZM:79:MET:HB3	2.01	0.43
7:iM:110:LEU:HD21	7:iM:172:VAL:HG13	2.00	0.43
6:AN:37:ARG:NE	6:AN:97:LEU:O	2.52	0.43
6:AN:88:HIS:CD2	6:AN:91:ARG:HH21	2.36	0.43
7:HN:115:GLU:HA	7:HN:118:ILE:HG12	2.00	0.43
14:MN:305:HIS:CD2	14:MN:328:PRO:HG2	2.54	0.43
6:CO:102:THR:O	6:CO:102:THR:HG23	2.18	0.43
21:DP:17:LYS:NZ	23:WP:141:GLU:OE2	2.35	0.43
21:DP:90:ARG:NH2	20:CP:15:ALA:HA	2.33	0.43
21:HP:100:ASP:OD1	21:HP:101:PRO:HD2	2.18	0.43
20:KP:89:LEU:HB2	20:KP:133:MET:CE	2.49	0.43
20:PP:12:ASP:HB2	21:UP:94:TYR:CE2	2.54	0.43
21:SP:100:ASP:OD1	21:SP:101:PRO:HD2	2.18	0.43
21:UP:100:ASP:OD1	21:UP:101:PRO:HD2	2.18	0.43
25:YP:454:PHE:HB3	25:YP:536:GLY:C	2.44	0.43
21:hP:112:LEU:HD23	21:hP:160:LEU:HD13	2.01	0.43
21:sP:112:LEU:HD23	21:sP:160:LEU:HD13	2.01	0.43
25:1P:207:PRO:HG2	25:1P:210:SER:HB3	2.01	0.43
28:4P:226:SER:HB3	28:4P:229:ALA:HB3	1.99	0.43
6:AQ:131:ILE:O	6:AQ:134:THR:OG1	2.32	0.43
7:DQ:139:VAL:HA	7:DQ:142:ILE:HG12	2.00	0.43
6:IQ:140:VAL:HG22	6:IQ:145:SER:HA	2.00	0.43
7:LQ:135:LYS:NZ	7:LQ:166:ALA:O	2.50	0.43
14:MQ:158:ARG:HG3	30:MQ:405:PUB:HAD2	2.01	0.43
8:eR:60:ILE:HG21	8:eR:60:ILE:HD13	1.78	0.43
6:MR:77:GLU:C	6:MR:77:GLU:OE1	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:MR:118:ARG:HD2	6:WR:114:ARG:NH1	2.34	0.43
6:OR:113:ALA:HB1	6:OR:117:TYR:CE2	2.54	0.43
7:PR:149:ARG:HD2	7:PR:149:ARG:HA	1.88	0.43
6:QR:139:CYS:HB3	6:QR:142:ARG:CG	2.49	0.43
6:SR:81:LYS:CE	29:SR:201:PEB:HAB2	2.49	0.43
7:TR:106:GLU:HG2	7:TR:110:LEU:CB	2.45	0.43
29:TR:202:PEB:HMD3	29:TR:202:PEB:HHC1	1.76	0.43
6:WR:92:LEU:CB	6:WR:105:LEU:HD23	2.34	0.43
2:A1:146:ILE:HD12	2:A1:156:GLU:HG3	2.00	0.42
5:N1:139:VAL:HG12	5:N1:139:VAL:O	2.17	0.42
6:Q1:13:ASP:OD2	7:R1:108:ARG:NH1	2.52	0.42
29:g1:201:PEB:HHB1	29:g1:201:PEB:HAB1	1.91	0.42
7:i1:115:GLU:HA	7:i1:118:ILE:HG12	2.00	0.42
6:j1:137:ARG:HG3	29:j1:202:PEB:HHC1	2.00	0.42
7:m1:1:MET:HE3	7:m1:104:VAL:HB	2.01	0.42
8:e2:93:ASP:HA	8:e2:96:VAL:HG12	2.01	0.42
8:e2:301:PHE:CZ	5:F7:17:GLU:HG2	2.54	0.42
7:N2:1:MET:HG3	7:N2:2:LEU:N	2.33	0.42
6:O2:59:CYS:HB2	6:O2:130:SER:HB3	2.00	0.42
7:P2:2:LEU:HD22	7:P2:6:SER:HB2	2.00	0.42
6:Q2:23:ASP:O	6:Q2:26:SER:OG	2.36	0.42
7:R2:1:MET:HG3	7:R2:2:LEU:N	2.33	0.42
6:S2:23:ASP:O	6:S2:26:SER:OG	2.36	0.42
6:S2:113:ALA:HB1	6:S2:117:TYR:CE2	2.54	0.42
29:T2:202:PEB:HMD3	29:T2:202:PEB:HHC1	1.77	0.42
7:X2:2:LEU:HD22	7:X2:6:SER:HB2	2.01	0.42
10:d4:327:SER:OG	10:dD:338:GLU:HB3	2.18	0.42
7:C4:26:ALA:HA	7:C4:29:SER:OG	2.19	0.42
7:E4:102:ALA:HB2	7:E4:168:TYR:CD1	2.53	0.42
12:E5:162:ASN:HB3	29:kI:203:PEB:CHB	2.49	0.42
13:k6:18:ARG:HG2	13:k6:18:ARG:HH11	1.84	0.42
13:k6:161:ILE:HG21	7:V7:136:ALA:CB	2.42	0.42
13:k6:183:TYR:CB	5:H7:140:ALA:CB	2.95	0.42
5:J7:88:ILE:HG21	31:J7:1001:CYC:HAB2	2.01	0.42
6:O7:22:SER:O	6:O7:26:SER:OG	2.35	0.42
7:V7:102:ALA:HB3	7:V7:171:ARG:NH1	2.34	0.42
7:a7:26:ALA:CA	12:E8:40:VAL:CG1	2.90	0.42
7:k7:145:THR:CG2	7:G8:148:GLU:O	2.67	0.42
6:l7:126:ALA:HB3	29:l7:201:PEB:HMA1	2.01	0.42
7:I8:13:ASP:CG	7:I8:16:ALA:HB3	2.43	0.42
7:I8:59:MET:HE2	7:I8:130:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:157:ASP:OD1	7:I8:159:THR:CG2	2.63	0.42
1:X9:323:ALA:O	1:X9:325:LYS:HD3	2.19	0.42
5:D9:14:ALA:O	5:F9:70:GLY:HA3	2.19	0.42
5:F9:75:THR:OG1	5:F9:78:ARG:HB2	2.19	0.42
4:M9:117:GLU:O	4:M9:121:SER:OG	2.36	0.42
29:Q9:202:PEB:HBC2	5:FK:21:ASN:HB2	2.01	0.42
7:Y9:53:SER:O	7:Y9:57:SER:OG	2.28	0.42
6:f9:126:ALA:HB3	29:f9:201:PEB:HMA1	2.01	0.42
14:MA:98:LEU:O	14:MA:100:THR:N	2.42	0.42
14:MA:123:MET:HE3	14:MA:123:MET:HB2	1.88	0.42
15:bB:31:VAL:HA	6:MB:118:ARG:NH2	2.33	0.42
7:HB:1:MET:HE3	7:HB:1:MET:HB2	1.89	0.42
29:eB:202:PEB:HBA2	29:eB:202:PEB:H2A1	1.86	0.42
6:jB:53:LYS:HA	6:jB:53:LYS:HD2	1.72	0.42
6:AC:13:ASP:OD2	7:BC:108:ARG:NH2	2.52	0.42
6:AC:106:ASP:HA	6:AC:110:ILE:HB	2.01	0.42
7:DC:55:ALA:CB	7:DC:134:MET:SD	3.02	0.42
18:MC:45:PHE:CZ	18:MC:253:ALA:HA	2.54	0.42
6:BD:92:LEU:HD21	6:BD:108:TRP:HE3	1.84	0.42
7:ED:93:VAL:HG11	7:ED:169:PHE:CE1	2.54	0.42
6:FD:92:LEU:HD21	6:FD:108:TRP:HE3	1.84	0.42
7:GD:93:VAL:HG11	7:GD:169:PHE:CE1	2.54	0.42
6:JD:2:LYS:HE2	6:JD:7:THR:CG2	2.49	0.42
7:MD:93:VAL:HG11	7:MD:169:PHE:CE1	2.54	0.42
6:AE:102:THR:HG21	6:AE:158:TYR:CZ	2.54	0.42
7:HE:24:LEU:H	7:HE:24:LEU:HG	1.59	0.42
6:KE:44:LEU:CD1	6:KE:152:PHE:CZ	2.97	0.42
4:EF:8:ALA:HB1	4:EF:23:GLU:HB3	2.01	0.42
7:VF:173:GLY:O	7:VF:177:SER:OG	2.33	0.42
6:bF:142:ARG:HH22	29:bF:202:PEB:HNA	1.65	0.42
7:eF:68:SER:OG	7:eF:69:PRO:CD	2.46	0.42
7:mF:105:LEU:HD11	7:mF:171:ARG:HD2	2.01	0.42
7:mF:146:ALA:O	7:mF:150:LYS:NZ	2.42	0.42
6:EG:37:ARG:NH1	6:EG:100:GLY:H	2.16	0.42
7:FG:62:GLU:CD	7:FG:62:GLU:N	2.73	0.42
7:HG:116:THR:HG22	14:MG:291:ALA:CB	2.42	0.42
6:IG:78:LYS:HE2	29:IG:201:PEB:HMB1	2.00	0.42
6:KG:27:ILE:HD11	7:LG:38:LEU:HD21	2.01	0.42
7:LG:51:MET:HE2	7:LG:141:PHE:CD2	2.54	0.42
7:LG:58:GLY:N	29:LG:203:PEB:CMD	2.70	0.42
13:kH:18:ARG:HG2	13:kH:18:ARG:NH1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:kH:93:MET:HE1	13:kH:142:SER:CB	2.45	0.42
13:kH:232:PHE:CB	6:OR:69:PRO:HG2	2.48	0.42
6:bI:142:ARG:HH22	29:bI:202:PEB:HNA	1.65	0.42
7:cI:129:ARG:HA	7:cI:129:ARG:HD2	1.92	0.42
7:cI:129:ARG:NH1	7:cI:132:SER:OG	2.51	0.42
29:IJ:203:PEB:ND	7:LJ:35:ASN:OD1	2.48	0.42
7:JJ:92:TYR:HB3	7:JJ:105:LEU:HD12	2.01	0.42
7:NJ:131:VAL:CG1	7:NJ:169:PHE:HD1	2.32	0.42
7:PJ:40:ALA:HB2	7:PJ:161:LEU:HD13	2.01	0.42
7:TJ:92:TYR:HB3	7:TJ:105:LEU:HD12	2.01	0.42
6:UJ:85:ASP:OD2	6:UJ:127:TYR:OH	2.30	0.42
7:VJ:92:TYR:HB3	7:VJ:105:LEU:HD12	2.01	0.42
29:WJ:201:PEB:HAB2	7:NO:70:GLY:O	2.19	0.42
7:XJ:131:VAL:CG1	7:XJ:169:PHE:HD1	2.32	0.42
7:ZJ:131:VAL:CG1	7:ZJ:169:PHE:HD1	2.32	0.42
7:ZJ:131:VAL:HG13	7:ZJ:169:PHE:HD1	1.83	0.42
6:cJ:135:ARG:NH1	7:fJ:149:ARG:CZ	2.82	0.42
6:gJ:106:ASP:OD1	6:gJ:158:TYR:OH	2.31	0.42
29:gJ:202:PEB:HBA3	29:gJ:202:PEB:H2A1	1.91	0.42
7:jJ:131:VAL:CG1	7:jJ:169:PHE:HD1	2.32	0.42
6:uJ:106:ASP:HA	6:uJ:110:ILE:HB	2.00	0.42
1:XK:171:ARG:NH1	29:PK:201:PEB:O2C	2.52	0.42
3:BK:167:ILE:HG23	5:NK:77:ARG:HH21	1.83	0.42
5:DK:148:THR:HG21	29:DK:1002:PEB:HMA3	2.01	0.42
5:NK:148:THR:HG21	29:NK:1002:PEB:HMA3	2.01	0.42
7:TK:97:LEU:CD1	7:TK:165:VAL:HG23	2.40	0.42
6:WK:137:ARG:HG3	29:WK:202:PEB:HHC1	2.00	0.42
6:AL:53:LYS:HA	6:AL:53:LYS:HD3	1.90	0.42
6:IL:73:GLY:HA2	6:IL:78:LYS:CB	2.49	0.42
6:IL:106:ASP:HA	6:IL:110:ILE:HB	2.00	0.42
7:JL:40:ALA:HB2	7:JL:161:LEU:HD13	2.01	0.42
7:LL:75:THR:OG1	7:LL:76:ASN:N	2.52	0.42
6:QL:33:ARG:HE	6:SL:25:GLU:HA	1.84	0.42
29:SL:201:PEB:HAC2	29:SL:201:PEB:HHB1	1.92	0.42
6:gL:68:ASN:CB	6:gL:71:GLU:OE2	2.60	0.42
7:hL:40:ALA:HB2	7:hL:161:LEU:HD13	2.01	0.42
7:nL:92:TYR:HB3	7:nL:105:LEU:HD12	2.01	0.42
7:pL:75:THR:OG1	7:pL:76:ASN:N	2.52	0.42
7:tL:40:ALA:HB2	7:tL:161:LEU:HD13	2.01	0.42
16:xL:64:MET:HE1	16:xL:141:MET:HE1	1.99	0.42
16:xL:135:CYS:HB2	29:xL:301:PEB:H3A1	1.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zL:316:PHE:CE2	20:NP:83:ARG:NH1	2.69	0.42
15:bM:114:LYS:HB2	15:bM:114:LYS:HE3	1.84	0.42
7:DM:129:ARG:HD2	7:DM:129:ARG:HA	1.90	0.42
6:GM:54:GLU:HG3	6:GM:133:TYR:CE2	2.31	0.42
7:PM:85:ASP:HB3	29:PM:201:PEB:H1D1	2.01	0.42
6:aM:119:THR:HG21	7:kM:83:LEU:CD1	2.49	0.42
7:kM:46:SER:HB3	6:lM:157:ASP:OD2	2.19	0.42
7:HN:43:SER:O	7:HN:46:SER:OG	2.35	0.42
6:IN:89:TYR:HH	6:IN:117:TYR:HH	1.54	0.42
6:IN:142:ARG:NH1	6:IN:143:ASP:OD1	2.52	0.42
7:JN:150:LYS:HA	7:JN:150:LYS:HD3	1.89	0.42
6:AO:42:GLU:OE2	7:BO:24:LEU:HB2	2.19	0.42
7:HO:53:SER:O	7:HO:57:SER:OG	2.27	0.42
20:EP:69:GLY:C	20:iP:56:GLN:OE1	2.62	0.42
21:IP:58:LYS:HB3	21:IP:58:LYS:HE2	1.81	0.42
21:LP:107:ARG:NH1	24:XP:109:GLN:HB2	2.33	0.42
20:PP:32:SER:HB2	26:ZP:120:PHE:HA	2.01	0.42
21:QP:19:LEU:CD1	20:RP:97:ILE:HD12	2.49	0.42
21:QP:72:MET:HA	21:QP:77:ARG:HB3	2.01	0.42
21:UP:112:LEU:HD23	21:UP:160:LEU:HD13	2.01	0.42
22:VP:109:ILE:O	22:VP:112:VAL:HG12	2.18	0.42
25:YP:74:ARG:O	25:YP:74:ARG:HG3	2.18	0.42
25:YP:720:LEU:O	25:YP:724:GLN:HG3	2.19	0.42
21:hP:58:LYS:HE2	21:hP:58:LYS:HB3	1.80	0.42
21:wP:112:LEU:HD23	21:wP:160:LEU:HD13	2.01	0.42
22:xP:51:ILE:HG23	22:xP:85:TYR:CB	2.49	0.42
24:zP:63:GLU:O	24:zP:63:GLU:HG3	2.19	0.42
27:3P:175:THR:O	27:3P:178:VAL:HG22	2.19	0.42
7:FQ:137:GLN:OE1	29:FQ:203:PEB:C1B	2.63	0.42
7:FQ:141:PHE:HZ	29:FQ:203:PEB:C3A	2.32	0.42
7:HQ:51:MET:HE2	7:HQ:141:PHE:CD2	2.54	0.42
6:IQ:5:ILE:HA	6:IQ:8:VAL:HG22	2.01	0.42
7:LQ:58:GLY:O	29:LQ:202:PEB:HMC2	2.16	0.42
6:OR:33:ARG:HH11	6:OR:147:GLN:HB3	1.83	0.42
7:PR:124:THR:O	7:PR:128:ILE:HG13	2.18	0.42
7:PR:154:ALA:HB3	29:PR:201:PEB:C4B	2.49	0.42
6:QR:37:ARG:NH2	6:QR:98:VAL:O	2.51	0.42
6:UR:33:ARG:O	6:UR:33:ARG:HG2	2.19	0.42
7:XR:2:LEU:HD22	7:XR:6:SER:HB2	2.01	0.42
3:B1:17:VAL:HG23	3:B1:164:ARG:HH11	1.83	0.42
5:J1:29:LYS:O	5:J1:29:LYS:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K1:73:ALA:HA	31:K1:1001:CYC:HBD2	2.00	0.42
4:M1:9:ILE:CD1	5:N1:99:ALA:HB2	2.49	0.42
7:P1:1:MET:HE3	7:P1:104:VAL:HB	2.01	0.42
7:T1:1:MET:HE3	7:T1:104:VAL:HB	2.01	0.42
6:Z1:137:ARG:HG3	29:Z1:203:PEB:HHC1	2.00	0.42
7:a1:1:MET:HE3	7:a1:104:VAL:HB	2.01	0.42
6:l1:52:VAL:HG11	6:l1:87:ASP:HB2	2.01	0.42
8:e2:280:SER:HB2	6:W7:136:ASP:OD1	2.19	0.42
6:O2:142:ARG:HD2	6:lB:76:GLN:HE22	1.84	0.42
6:Q2:68:ASN:HA	6:Q2:69:PRO:HD3	1.93	0.42
7:V2:46:SER:CA	6:W2:157:ASP:OD2	2.67	0.42
7:M3:82:CYS:HA	29:M3:201:PEB:HHA1	2.01	0.42
7:N3:87:GLU:OE1	7:N3:91:ARG:CD	2.67	0.42
9:O3:56:PRO:HD3	9:O3:77:MET:HE3	2.01	0.42
10:d4:157:GLN:O	10:d4:160:GLN:HG3	2.18	0.42
7:C4:28:LYS:HE2	7:C4:28:LYS:HB2	1.56	0.42
6:D4:113:ALA:O	6:D4:114:ARG:C	2.62	0.42
7:E4:149:ARG:O	7:E4:150:LYS:HD2	2.18	0.42
6:H4:44:LEU:HA	6:H4:44:LEU:HD12	1.80	0.42
29:I4:202:PEB:HMD3	29:I4:202:PEB:HHC1	1.60	0.42
6:J4:85:ASP:O	6:J4:88:HIS:HB2	2.19	0.42
7:K4:164:GLU:O	7:K4:167:SER:OG	2.27	0.42
7:M4:7:ARG:HE	7:M4:7:ARG:CA	2.26	0.42
7:H5:35:ASN:HB3	29:H5:202:PEB:C1C	2.49	0.42
7:I5:10:VAL:HG21	7:I5:13:ASP:HB3	2.01	0.42
7:L5:35:ASN:HB3	29:L5:202:PEB:C1C	2.49	0.42
12:E5:87:GLN:HG2	29:ZI:202:PEB:HMA2	2.01	0.42
12:E5:120:TYR:CE2	7:Y9:156:GLY:CA	2.98	0.42
12:E5:216:ALA:HB3	12:E5:237:GLN:HB3	1.99	0.42
13:k6:11:ILE:HG13	13:k6:12:ALA:N	2.33	0.42
5:F7:67:ILE:H	5:F7:67:ILE:HG13	1.64	0.42
5:L7:63:GLN:NE2	27:aP:284:VAL:HG22	2.30	0.42
7:P7:53:SER:O	7:P7:57:SER:OG	2.28	0.42
7:R7:74:TYR:OH	6:Z7:91:ARG:NH2	2.52	0.42
6:U7:34:SER:HA	6:U7:37:ARG:HG2	2.00	0.42
6:d7:120:LEU:HD11	7:i7:79:MET:HE2	2.01	0.42
7:G8:35:ASN:HB3	29:G8:202:PEB:C1C	2.49	0.42
1:X9:47:ASN:HD22	7:a9:78:ARG:NH1	2.17	0.42
5:H9:88:ILE:HG21	31:H9:1001:CYC:HAB2	2.01	0.42
4:I9:17:ARG:O	5:J9:95:TYR:OH	2.36	0.42
6:b9:109:GLY:O	7:k9:76:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m9:59:MET:HE2	7:m9:59:MET:HB3	1.96	0.42
6:AA:139:CYS:N	6:AA:143:ASP:OD2	2.51	0.42
7:BA:147:THR:OG1	29:BA:203:PEB:OA	2.27	0.42
6:CA:3:SER:N	6:CA:6:THR:OG1	2.51	0.42
6:EA:142:ARG:NH1	6:EA:143:ASP:OD1	2.52	0.42
7:HA:31:ILE:HD13	7:HA:31:ILE:HA	1.88	0.42
7:JA:31:ILE:HD13	7:JA:31:ILE:HA	1.88	0.42
7:VB:50:CYS:HB3	29:VB:203:PEB:H3A1	1.99	0.42
6:WB:33:ARG:NH2	6:WB:147:GLN:NE2	2.68	0.42
7:XB:110:LEU:HD21	7:XB:172:VAL:HG13	2.00	0.42
7:ZB:19:VAL:HG13	7:ZB:23:ASP:HB2	2.02	0.42
7:eB:1:MET:HE3	7:eB:1:MET:HB2	1.89	0.42
7:iB:85:ASP:OD2	29:iB:201:PEB:NC	2.45	0.42
29:iB:203:PEB:HBA2	29:iB:203:PEB:H2A1	1.86	0.42
6:AC:102:THR:HG21	6:AC:158:TYR:CZ	2.54	0.42
6:CC:44:LEU:O	6:CC:48:HIS:N	2.53	0.42
6:DD:85:ASP:O	6:DD:88:HIS:HB2	2.19	0.42
6:DD:92:LEU:HD21	6:DD:108:TRP:HE3	1.84	0.42
7:ED:109:CYS:O	7:ED:113:LEU:HB2	2.18	0.42
7:ED:125:ASN:HA	7:ED:128:ILE:HD11	2.02	0.42
6:FD:2:LYS:HE2	6:FD:7:THR:CG2	2.49	0.42
7:KD:157:ASP:OD1	7:KD:159:THR:HG23	2.18	0.42
7:MD:77:ARG:NH2	29:MD:201:PEB:CGB	2.80	0.42
6:CE:44:LEU:O	6:CE:48:HIS:N	2.53	0.42
7:DE:21:GLY:O	7:DE:25:GLN:NE2	2.41	0.42
3:BF:156:ASP:OD1	3:BF:156:ASP:N	2.47	0.42
4:KF:8:ALA:HB1	4:KF:23:GLU:HB3	2.01	0.42
7:BG:143:THR:OG1	7:BG:145:THR:OG1	2.33	0.42
6:CG:5:ILE:HA	6:CG:8:VAL:HG22	2.01	0.42
6:CG:33:ARG:C	6:CG:35:ALA:N	2.77	0.42
6:CG:81:LYS:HG2	6:CG:84:ARG:HE	1.83	0.42
6:KG:140:VAL:HG22	6:KG:145:SER:HA	2.00	0.42
7:LG:115:GLU:CG	14:MG:232:LYS:HB3	2.49	0.42
4:CI:8:ALA:HB1	4:CI:23:GLU:HB3	2.01	0.42
7:eI:170:ASP:OD1	7:eI:171:ARG:N	2.52	0.42
7:mI:115:GLU:HA	7:mI:118:ILE:HG12	1.99	0.42
7:BJ:118:ILE:O	7:TJ:118:ILE:CD1	2.68	0.42
7:DJ:40:ALA:HB2	7:DJ:161:LEU:HD13	2.01	0.42
7:FJ:156:GLY:HA2	25:YP:638:ASN:CB	2.49	0.42
7:NJ:5:PHE:HZ	7:NJ:31:ILE:CG1	2.31	0.42
7:NJ:40:ALA:HB2	7:NJ:161:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:PJ:131:VAL:CG1	7:PJ:169:PHE:HD1	2.32	0.42
6:QJ:47:ASN:HD21	29:QJ:202:PEB:CMC	2.31	0.42
7:RJ:75:THR:OG1	7:RJ:76:ASN:N	2.52	0.42
6:SJ:43:LYS:HA	6:SJ:43:LYS:HD2	1.60	0.42
7:TJ:75:THR:OG1	7:TJ:76:ASN:N	2.52	0.42
6:WJ:73:GLY:CA	6:WJ:78:LYS:HB3	2.28	0.42
6:YJ:106:ASP:HA	6:YJ:110:ILE:HB	2.00	0.42
7:ZJ:92:TYR:HB3	7:ZJ:105:LEU:HD12	2.01	0.42
7:bJ:84:ARG:NH2	7:bJ:85:ASP:OD1	2.50	0.42
7:bJ:92:TYR:HB3	7:bJ:105:LEU:HD12	2.01	0.42
7:lJ:38:LEU:HD13	6:mJ:33:ARG:NH2	2.26	0.42
6:mJ:104:PRO:HB3	7:nJ:9:VAL:CG1	2.49	0.42
6:mJ:139:CYS:HB3	29:mJ:202:PEB:H3A1	1.72	0.42
6:oJ:18:PHE:HA	7:pJ:91:ARG:HG3	2.00	0.42
4:CK:42:LYS:HE3	4:CK:42:LYS:HB2	1.41	0.42
5:DK:39:ASP:N	29:DK:1002:PEB:HMD1	2.34	0.42
4:EK:122:PHE:CE2	31:EK:1001:CYC:HAA1	2.55	0.42
4:IK:3:THR:O	4:IK:6:THR:OG1	2.37	0.42
4:KK:3:THR:HG22	4:KK:101:VAL:CG2	2.48	0.42
6:lK:52:VAL:HG11	6:lK:87:ASP:HB2	2.01	0.42
6:AL:140:VAL:CG2	6:AL:146:ALA:HA	2.49	0.42
7:BL:131:VAL:CG1	7:BL:169:PHE:HD1	2.32	0.42
7:DL:40:ALA:HB2	7:DL:161:LEU:HD13	2.01	0.42
7:DL:75:THR:OG1	7:DL:76:ASN:N	2.52	0.42
7:DL:129:ARG:HA	7:DL:129:ARG:HD2	1.82	0.42
6:KL:72:ALA:CB	29:KL:201:PEB:CMA	2.96	0.42
7:PL:1:MET:HE3	7:PL:1:MET:HB2	1.80	0.42
6:UL:106:ASP:HA	6:UL:110:ILE:HB	2.00	0.42
7:XL:1:MET:HE3	7:XL:1:MET:HB2	1.80	0.42
7:ZL:78:ARG:HD3	29:ZL:201:PEB:HMB3	2.02	0.42
7:bL:92:TYR:HB3	7:bL:105:LEU:HD12	2.01	0.42
7:dL:131:VAL:HG13	7:dL:169:PHE:HD1	1.83	0.42
6:iL:68:ASN:HA	6:iL:69:PRO:HD3	1.92	0.42
6:oL:94:ASN:HD22	7:pL:18:TYR:HB3	1.84	0.42
6:qL:9:VAL:HG11	7:rL:1:MET:HE1	2.01	0.42
16:xL:61:ASP:HB3	16:xL:147:LYS:HB2	2.00	0.42
17:yL:137:ARG:HG3	17:yL:142:LYS:HG2	1.99	0.42
16:AM:64:MET:HG3	29:AM:301:PEB:HBD2	2.01	0.42
6:IM:43:LYS:HA	6:IM:43:LYS:HD3	1.91	0.42
7:TM:19:VAL:HG13	7:TM:23:ASP:HB2	2.02	0.42
7:cM:1:MET:HE3	7:cM:1:MET:HB2	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:gM:19:VAL:HG13	7:gM:23:ASP:HB2	2.02	0.42
6:hM:145:SER:OG	6:hM:147:GLN:CD	2.60	0.42
7:mM:110:LEU:HD21	7:mM:172:VAL:HG13	2.00	0.42
7:FN:31:ILE:HD13	7:FN:31:ILE:HA	1.88	0.42
7:FN:160:SER:O	7:FN:163:SER:OG	2.36	0.42
6:GN:92:LEU:HB3	6:GN:105:LEU:HD23	2.00	0.42
6:KN:142:ARG:NH1	6:KN:143:ASP:OD1	2.52	0.42
7:LN:43:SER:O	7:LN:46:SER:OG	2.35	0.42
14:MN:123:MET:HE3	14:MN:123:MET:HB2	1.88	0.42
9:OO:335:LYS:HE2	9:OO:335:LYS:HB2	1.84	0.42
21:FP:13:ASP:OD1	20:EP:107:ILE:HD13	2.19	0.42
21:OP:78:TYR:CD1	22:VP:115:MET:HG3	2.54	0.42
20:PP:57:GLN:HB2	20:PP:132:CYS:HB3	2.00	0.42
20:RP:13:ALA:CB	25:YP:706:LYS:HB3	2.49	0.42
31:RP:1001:CYC:HBB2	21:UP:73:TYR:CZ	2.55	0.42
22:VP:134:LYS:HB2	22:VP:153:TYR:CD1	2.54	0.42
24:XP:104:GLU:CD	24:XP:107:ARG:HH21	2.26	0.42
25:YP:207:PRO:HG2	25:YP:210:SER:HB3	2.01	0.42
21:hP:72:MET:HA	21:hP:77:ARG:HB3	2.01	0.42
21:kP:100:ASP:OD1	21:kP:101:PRO:HD2	2.18	0.42
20:rP:89:LEU:HB2	20:rP:133:MET:CE	2.49	0.42
20:rP:114:GLU:HG3	26:2P:155:GLY:N	2.34	0.42
23:yP:52:ILE:HD12	23:yP:92:GLU:OE1	2.19	0.42
25:1P:454:PHE:HB3	25:1P:536:GLY:C	2.44	0.42
26:2P:85:LEU:HB3	26:2P:86:PRO:HD2	2.01	0.42
6:AQ:93:VAL:HG21	6:AQ:156:LEU:HD23	1.99	0.42
6:GQ:93:VAL:HG21	6:GQ:156:LEU:HD23	1.99	0.42
6:IQ:37:ARG:NH1	6:IQ:100:GLY:H	2.16	0.42
7:JQ:143:THR:OG1	7:JQ:145:THR:OG1	2.34	0.42
6:KQ:54:GLU:OE1	6:KQ:137:ARG:NH2	2.37	0.42
6:MR:33:ARG:HH11	6:MR:147:GLN:HB3	1.83	0.42
6:MR:84:ARG:HE	6:MR:84:ARG:HB3	1.75	0.42
6:MR:142:ARG:HH22	29:MR:202:PEB:C4B	2.29	0.42
6:UR:33:ARG:HH22	29:XR:202:PEB:C3D	2.31	0.42
6:WR:113:ALA:HB1	6:WR:117:TYR:CE2	2.54	0.42
1:X1:125:LEU:O	1:X1:195:TYR:OH	2.36	0.42
1:X1:171:ARG:NH1	29:P1:201:PEB:O2C	2.52	0.42
5:J1:8:VAL:CG1	5:J1:19:LEU:HD22	2.49	0.42
5:J1:40:ILE:HG22	5:J1:41:VAL:N	2.34	0.42
6:f1:137:ARG:HG3	29:f1:202:PEB:HH1C1	2.00	0.42
7:k1:124:THR:O	7:k1:127:SER:OG	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P2:149:ARG:HA	7:P2:149:ARG:HD2	1.88	0.42
6:Q2:27:ILE:HD13	7:R2:98:LEU:HD11	2.01	0.42
6:U2:17:ARG:CZ	6:W2:2:LYS:HZ1	2.27	0.42
7:V2:125:ASN:OD1	7:V2:126:SER:N	2.52	0.42
6:W2:33:ARG:HH11	6:W2:147:GLN:HB3	1.83	0.42
6:W2:142:ARG:CZ	29:W2:202:PEB:CHA	2.97	0.42
7:X2:75:THR:HG23	7:X2:77:ARG:N	2.33	0.42
7:D3:59:MET:HE3	7:D3:59:MET:HB3	1.86	0.42
7:D3:109:CYS:O	9:O3:55:TYR:OH	2.26	0.42
7:J3:107:ASP:HA	7:J3:111:ASN:HB2	2.00	0.42
10:d4:250:GLY:HA3	29:WF:202:PEB:OA	2.19	0.42
7:C4:93:VAL:HG11	7:C4:169:PHE:CE1	2.54	0.42
7:C4:133:ILE:CD1	29:C4:203:PEB:C3C	2.96	0.42
7:E4:128:ILE:H	7:E4:128:ILE:HG12	1.60	0.42
6:F4:92:LEU:HD21	6:F4:108:TRP:HE3	1.84	0.42
6:F4:139:CYS:HB3	6:F4:141:PRO:HD2	2.01	0.42
7:I4:65:GLY:O	7:I4:68:SER:OG	2.15	0.42
7:I4:93:VAL:HG21	7:I4:169:PHE:CE1	2.55	0.42
7:I4:129:ARG:NE	7:I4:129:ARG:HA	2.35	0.42
7:K4:149:ARG:O	7:K4:150:LYS:HD2	2.18	0.42
7:M4:125:ASN:HA	7:M4:128:ILE:HD11	2.01	0.42
29:M4:203:PEB:CMB	29:M4:203:PEB:NA	2.82	0.42
29:H5:202:PEB:CBD	12:E5:74:ARG:HB3	2.49	0.42
7:I5:27:LEU:HD21	19:zL:298:ALA:HB2	1.87	0.42
7:L5:120:LEU:HD21	13:k6:283:LYS:NZ	2.34	0.42
12:E5:173:PHE:HE2	6:ZI:83:TYR:HE2	1.59	0.42
1:X7:322:LYS:O	1:X7:323:ALA:C	2.63	0.42
1:X7:347:TYR:CE1	31:H7:1001:CYC:HBB3	2.54	0.42
3:B7:55:PHE:HB3	3:B7:59:GLN:HB2	2.00	0.42
3:B7:130:ILE:HD12	3:B7:130:ILE:HA	1.79	0.42
5:L7:88:ILE:HG21	31:L7:1001:CYC:HAB2	2.01	0.42
6:h7:5:ILE:O	6:h7:9:VAL:HG22	2.18	0.42
1:X9:159:LEU:HD13	1:X9:245:ILE:HG23	2.01	0.42
3:B9:75:PHE:CE2	5:F9:116:THR:HG23	2.54	0.42
5:F9:35:ASN:HB3	29:F9:1002:PEB:H1D1	2.00	0.42
7:a9:150:LYS:HE2	8:eR:285:PRO:HD2	2.01	0.42
6:d9:126:ALA:HB3	29:d9:201:PEB:HMA1	2.01	0.42
7:e9:8:VAL:HG21	7:e9:27:LEU:HD21	2.02	0.42
6:j9:5:ILE:O	6:j9:9:VAL:HG22	2.18	0.42
6:l9:126:ALA:HB3	29:l9:201:PEB:HMA1	2.01	0.42
6:CA:142:ARG:NH1	6:CA:143:ASP:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DA:115:GLU:HA	7:DA:118:ILE:HG12	2.00	0.42
7:FA:150:LYS:HA	7:FA:150:LYS:HD3	1.88	0.42
6:IA:3:SER:N	6:IA:6:THR:OG1	2.51	0.42
6:KA:59:CYS:O	6:KA:63:TYR:N	2.46	0.42
7:LA:115:GLU:HA	7:LA:118:ILE:HG12	2.00	0.42
14:MA:98:LEU:C	14:MA:100:THR:H	2.25	0.42
14:MA:117:ARG:HB3	14:MA:118:LYS:HZ2	1.84	0.42
14:MA:305:HIS:CD2	14:MA:328:PRO:HG2	2.54	0.42
17:BB:89:PHE:HB3	17:BB:172:LEU:HD13	2.00	0.42
17:BB:139:ALA:O	17:BB:143:THR:OG1	2.27	0.42
17:BB:209:ASN:ND2	17:BB:289:ALA:O	2.53	0.42
17:BB:210:LYS:HA	17:BB:210:LYS:HD3	1.93	0.42
7:JB:19:VAL:HG13	7:JB:23:ASP:HB2	2.02	0.42
7:JB:110:LEU:HD21	7:JB:172:VAL:HG13	2.00	0.42
7:NB:15:LYS:HZ2	21:MP:131:GLN:CD	2.17	0.42
7:NB:25:GLN:HB2	21:MP:147:LYS:HG2	1.95	0.42
6:UB:116:VAL:HG11	7:ZB:79:MET:HB3	2.01	0.42
7:gB:1:MET:HE3	7:gB:1:MET:HB2	1.89	0.42
6:IB:53:LYS:CE	6:IB:53:LYS:CA	2.86	0.42
6:AC:2:LYS:HD3	6:AC:2:LYS:HA	1.84	0.42
18:MC:274:VAL:HB	18:MC:290:ILE:HB	2.01	0.42
10:dD:226:ARG:NH1	6:WI:46:GLY:CA	2.82	0.42
29:dD:401:PEB:CGB	7:ED:77:ARG:NH2	2.80	0.42
6:DD:32:GLN:N	6:DD:32:GLN:CD	2.66	0.42
6:FD:24:LEU:HD13	7:GD:38:LEU:HD22	2.01	0.42
6:FD:33:ARG:CZ	29:ID:202:PEB:CBD	2.91	0.42
7:GD:5:PHE:HD1	7:GD:27:LEU:HD21	1.83	0.42
7:GD:36:LYS:NZ	29:GD:202:PEB:C2B	2.83	0.42
7:GD:128:ILE:H	7:GD:128:ILE:HG12	1.60	0.42
6:HD:2:LYS:HE2	6:HD:7:THR:CG2	2.49	0.42
7:ID:30:PHE:CE1	7:ID:37:ARG:NH1	2.88	0.42
7:ID:93:VAL:HG21	7:ID:169:PHE:CE1	2.55	0.42
6:JD:113:ALA:O	6:JD:114:ARG:C	2.62	0.42
7:KD:36:LYS:NZ	29:KD:202:PEB:C2B	2.83	0.42
7:KD:93:VAL:HG11	7:KD:169:PHE:CE1	2.54	0.42
7:MD:125:ASN:HA	7:MD:128:ILE:HD11	2.01	0.42
6:AE:106:ASP:HA	6:AE:110:ILE:HB	2.01	0.42
18:ME:105:LYS:HB2	18:ME:174:TYR:HE1	1.84	0.42
7:VF:148:GLU:OE1	7:VF:148:GLU:N	2.52	0.42
6:bF:156:LEU:HD23	6:bF:156:LEU:HA	1.91	0.42
7:FG:55:ALA:HB2	7:FG:134:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KG:78:LYS:HE2	29:KG:201:PEB:HMB1	2.01	0.42
14:MG:118:LYS:HE2	14:MG:118:LYS:HB2	1.74	0.42
1:XI:291:THR:OG1	5:DI:108:ARG:NH2	2.41	0.42
3:BI:57:GLU:HG3	5:JI:84:ARG:HD3	2.02	0.42
4:KI:8:ALA:HB1	4:KI:23:GLU:HB3	2.01	0.42
4:MI:8:ALA:HB1	4:MI:23:GLU:HB3	2.01	0.42
7:TI:56:VAL:CG1	7:TI:79:MET:HE1	2.49	0.42
6:ZI:137:ARG:HE	6:ZI:137:ARG:HB2	1.73	0.42
7:HJ:25:GLN:C	7:HJ:27:LEU:N	2.77	0.42
6:MJ:33:ARG:HH21	6:MJ:33:ARG:CB	2.19	0.42
7:NJ:131:VAL:HG13	7:NJ:169:PHE:HD1	1.82	0.42
7:XJ:75:THR:OG1	7:XJ:76:ASN:N	2.52	0.42
7:XJ:129:ARG:HD2	7:XJ:129:ARG:HA	1.82	0.42
29:aJ:202:PEB:HBA3	29:aJ:202:PEB:H2A1	1.91	0.42
7:hJ:92:TYR:HB3	7:hJ:105:LEU:HD12	2.01	0.42
6:iJ:72:ALA:O	6:iJ:78:LYS:HE3	2.19	0.42
6:kJ:14:ALA:O	16:xJ:187:ARG:HG2	2.18	0.42
6:oJ:94:ASN:HD22	7:pJ:18:TYR:HB3	1.84	0.42
7:rJ:40:ALA:HB2	7:rJ:161:LEU:HD13	2.01	0.42
16:xJ:40:VAL:CG1	16:xJ:41:ASN:H	2.32	0.42
16:xJ:249:CYS:HB2	29:xJ:302:PEB:H3A1	1.76	0.42
1:XK:325:VAL:CG2	4:CK:112:VAL:HG12	2.49	0.42
4:EK:16:GLY:CA	5:FK:91:ARG:NH1	2.81	0.42
4:GK:69:MET:HE1	4:MK:62:LYS:O	2.20	0.42
7:VK:1:MET:HE3	7:VK:104:VAL:HB	2.01	0.42
29:WK:202:PEB:HBA3	29:WK:202:PEB:H2A1	1.89	0.42
7:aK:1:MET:HE3	7:aK:104:VAL:HB	2.01	0.42
6:EL:99:VAL:O	6:EL:99:VAL:HG12	2.18	0.42
7:FL:78:ARG:HD3	29:FL:201:PEB:HMB3	2.02	0.42
6:IL:138:LEU:HD22	6:IL:152:PHE:CE2	2.54	0.42
7:JL:129:ARG:HA	7:JL:129:ARG:HD2	1.81	0.42
6:KL:106:ASP:HA	6:KL:110:ILE:HB	2.00	0.42
7:LL:84:ARG:NH2	7:LL:85:ASP:OD1	2.50	0.42
7:LL:131:VAL:CG1	7:LL:169:PHE:HD1	2.32	0.42
7:PL:124:THR:O	7:PL:127:SER:OG	2.26	0.42
6:QL:47:ASN:HD21	29:QL:202:PEB:CMC	2.31	0.42
6:SL:30:ASN:OD1	6:SL:37:ARG:NH2	2.44	0.42
7:TL:40:ALA:HB2	7:TL:161:LEU:HD13	2.01	0.42
7:TL:131:VAL:CG1	7:TL:169:PHE:HD1	2.32	0.42
29:YL:202:PEB:HBA3	29:YL:202:PEB:H2A1	1.91	0.42
6:kL:139:CYS:HB3	29:kL:202:PEB:H3A1	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:nL:1:MET:HE3	7:nL:1:MET:HB2	1.80	0.42
6:oL:90:MET:HB2	7:pL:18:TYR:OH	2.19	0.42
16:wL:39:LEU:HD21	17:yL:200:PHE:HD1	1.80	0.42
16:wL:171:SER:C	16:xL:48:MET:SD	3.02	0.42
19:zL:212:PHE:CB	19:zL:216:TYR:OH	2.67	0.42
15:bM:68:ALA:HB3	7:LM:107:ASP:HB2	2.01	0.42
15:bM:370:TYR:CD1	21:oP:128:GLN:HG3	2.54	0.42
6:CM:99:VAL:HG12	6:CM:101:GLY:H	1.84	0.42
6:KM:43:LYS:HA	6:KM:43:LYS:HD3	1.91	0.42
6:OM:6:THR:HG22	7:PM:1:MET:HE2	2.00	0.42
7:VM:60:ILE:C	7:VM:62:GLU:H	2.27	0.42
7:XM:59:MET:HE2	7:XM:59:MET:HB3	1.89	0.42
7:kM:19:VAL:HG13	7:kM:23:ASP:HB2	2.02	0.42
7:kM:81:ALA:O	7:kM:85:ASP:CB	2.49	0.42
7:mM:19:VAL:HG13	7:mM:23:ASP:HB2	2.02	0.42
6:CN:88:HIS:CD2	6:CN:91:ARG:HH21	2.36	0.42
6:IN:142:ARG:HE	6:IN:142:ARG:HB3	1.64	0.42
14:MN:245:MET:HB3	14:MN:327:ARG:HH21	1.84	0.42
6:KO:105:LEU:HD12	6:KO:105:LEU:HA	1.89	0.42
20:CP:89:LEU:HB2	20:CP:133:MET:CE	2.48	0.42
20:JP:151:PHE:CG	20:NP:20:PRO:HB3	2.54	0.42
20:RP:89:LEU:HB2	20:RP:133:MET:CE	2.48	0.42
21:SP:112:LEU:HD23	21:SP:160:LEU:HD13	2.01	0.42
22:VP:48:GLN:NE2	22:VP:52:ARG:HH21	2.17	0.42
25:YP:431:SER:O	25:YP:435:LYS:HD3	2.19	0.42
20:gP:89:LEU:HB2	20:gP:133:MET:CE	2.48	0.42
21:kP:96:MET:HE3	21:kP:96:MET:HB3	1.91	0.42
25:1P:523:ASN:HD21	25:1P:557:ASN:HD21	1.67	0.42
6:AQ:140:VAL:HG22	6:AQ:145:SER:HA	2.00	0.42
6:AQ:154:ALA:HB2	7:DQ:42:ASN:HD22	1.83	0.42
7:BQ:139:VAL:HA	7:BQ:142:ILE:HG12	2.00	0.42
6:CQ:5:ILE:HA	6:CQ:8:VAL:HG22	2.01	0.42
6:EQ:4:VAL:O	6:EQ:7:THR:OG1	2.30	0.42
7:NR:3:ASP:H	7:NR:6:SER:HG	1.61	0.42
6:QR:33:ARG:HG2	6:QR:33:ARG:O	2.19	0.42
7:TR:154:ALA:HB3	29:TR:202:PEB:C4B	2.49	0.42
2:A1:223:GLY:HA3	6:l1:114:ARG:HH22	1.83	0.42
4:G1:130:ILE:HG23	4:G1:158:ILE:HG23	2.02	0.42
6:j1:140:VAL:HG12	6:j1:146:ALA:HA	2.01	0.42
7:k1:1:MET:HE3	7:k1:104:VAL:HB	2.01	0.42
6:S2:118:ARG:CD	6:U2:114:ARG:NH1	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U2:113:ALA:HB1	6:U2:117:TYR:CE2	2.54	0.42
29:I3:203:PEB:NC	7:L3:39:ASP:OD2	2.42	0.42
7:J3:1:MET:HG2	7:J3:108:ARG:HH21	1.85	0.42
9:O3:239:VAL:HG11	9:O3:247:ALA:HB2	2.01	0.42
10:d4:102:MET:SD	10:d4:107:GLU:OE2	2.76	0.42
10:d4:103:PHE:CD2	10:d4:104:LEU:HD23	2.54	0.42
10:d4:182:GLU:OE1	10:d4:182:GLU:N	2.53	0.42
10:d4:199:MET:O	10:d4:200:THR:OG1	2.36	0.42
6:B4:49:GLU:O	6:B4:52:VAL:HG22	2.20	0.42
6:B4:92:LEU:HD21	6:B4:108:TRP:HE3	1.84	0.42
7:E4:77:ARG:NH2	29:E4:201:PEB:CGB	2.80	0.42
6:F4:85:ASP:O	6:F4:88:HIS:HB2	2.19	0.42
7:G4:5:PHE:HD1	7:G4:27:LEU:HD21	1.84	0.42
7:G4:93:VAL:HG11	7:G4:169:PHE:CE1	2.54	0.42
7:G4:133:ILE:O	7:G4:137:GLN:HG2	2.20	0.42
7:I4:85:ASP:HB2	29:I4:201:PEB:HHA1	2.01	0.42
7:I4:97:LEU:HD21	7:I4:165:VAL:HA	2.00	0.42
6:J4:139:CYS:HB3	6:J4:141:PRO:HD2	2.01	0.42
7:K4:5:PHE:HD1	7:K4:27:LEU:HD21	1.84	0.42
6:L4:2:LYS:HE2	6:L4:7:THR:CG2	2.49	0.42
7:B5:35:ASN:HB3	29:B5:202:PEB:C1C	2.49	0.42
7:F5:72:MEN:N	7:F5:72:MEN:OD1	2.50	0.42
7:K5:108:ARG:HD3	7:K5:108:ARG:HA	1.72	0.42
7:K5:164:GLU:HG3	7:K5:168:TYR:CE2	2.54	0.42
12:E5:213:LYS:HE3	12:E5:213:LYS:HB2	1.74	0.42
13:k6:153:LYS:HZ1	29:V7:203:PEB:H1D1	1.84	0.42
13:k6:172:LYS:HB3	13:k6:172:LYS:HZ2	1.80	0.42
3:B7:75:PHE:CZ	5:F7:116:THR:HG23	2.53	0.42
4:C7:57:GLN:CD	4:GF:61:ASN:OD1	2.62	0.42
4:E7:22:THR:HG23	4:K7:4:PRO:HG3	2.01	0.42
5:J7:35:ASN:HB3	29:J7:1002:PEB:H1D1	2.00	0.42
6:O7:53:LYS:HA	6:O7:53:LYS:HD3	1.71	0.42
6:W7:22:SER:OG	6:Z7:2:LYS:NZ	2.51	0.42
29:I8:201:PEB:CMC	15:bM:403:PRO:CG	2.89	0.42
6:J8:19:PRO:HB2	7:K8:45:VAL:HG11	2.00	0.42
7:K8:164:GLU:HG3	7:K8:168:TYR:CE2	2.54	0.42
12:E8:174:TRP:HB3	6:ZF:83:TYR:HB2	2.01	0.42
1:X9:323:ALA:O	1:X9:325:LYS:CE	2.64	0.42
2:A9:85:VAL:HG13	29:A9:304:PEB:CBD	2.49	0.42
3:B9:172:LYS:HB2	26:ZP:86:PRO:CG	2.42	0.42
4:I9:134:GLN:NE2	13:kH:192:VAL:CG1	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J9:74:TYR:CE2	5:N9:13:ASP:OD2	2.73	0.42
6:Q9:1:MET:O	6:Q9:6:THR:HG21	2.18	0.42
6:Q9:53:LYS:HD2	4:EK:49:GLN:HG3	1.07	0.42
7:R9:74:TYR:OH	6:Z9:91:ARG:NH2	2.52	0.42
6:U9:77:GLU:OE2	13:kH:211:PRO:HB3	2.20	0.42
6:W9:58:ALA:HA	8:eR:260:LEU:HD13	2.02	0.42
7:c9:67:ILE:HD12	6:f9:84:ARG:HH12	1.85	0.42
7:i9:52:VAL:HG21	7:i9:87:GLU:HG2	2.02	0.42
6:l9:34:SER:HA	6:l9:37:ARG:HG2	2.00	0.42
6:AA:142:ARG:NH1	6:AA:143:ASP:OD1	2.52	0.42
6:EA:37:ARG:NE	6:EA:97:LEU:O	2.52	0.42
6:GA:59:CYS:O	6:GA:63:TYR:N	2.46	0.42
6:IA:142:ARG:HE	6:IA:142:ARG:HB3	1.64	0.42
7:LA:38:LEU:HA	7:LA:38:LEU:HD23	1.83	0.42
7:FB:53:SER:HB2	6:MB:120:LEU:HD23	2.01	0.42
7:JB:85:ASP:OD2	29:JB:201:PEB:CHC	2.66	0.42
6:KB:157:ASP:CG	7:NB:149:ARG:HH22	2.27	0.42
6:SB:144:MET:HE2	6:SB:144:MET:HB3	1.96	0.42
7:TB:7:ARG:HA	7:TB:7:ARG:HD3	1.90	0.42
7:cB:19:VAL:HG13	7:cB:23:ASP:HB2	2.02	0.42
7:eB:50:CYS:HB3	29:eB:202:PEB:H3A1	1.99	0.42
7:gB:19:VAL:HG13	7:gB:23:ASP:HB2	2.02	0.42
6:jB:50:ALA:HB1	29:jB:202:PEB:HBC1	2.00	0.42
7:BC:129:ARG:NH1	7:BC:132:SER:OG	2.53	0.42
7:FC:129:ARG:NH1	7:FC:132:SER:OG	2.53	0.42
6:IC:44:LEU:O	6:IC:48:HIS:N	2.53	0.42
7:JC:51:MET:HE3	7:JC:137:GLN:CB	2.37	0.42
7:JC:129:ARG:NH1	7:JC:132:SER:OG	2.53	0.42
18:MC:261:VAL:HG11	6:SF:68:ASN:HB3	2.02	0.42
7:ED:22:SER:OG	7:ED:23:ASP:OD1	2.36	0.42
7:ED:39:ASP:OD1	29:ED:201:PEB:C1D	2.61	0.42
7:GD:129:ARG:HH21	7:GD:133:ILE:N	2.18	0.42
6:HD:85:ASP:O	6:HD:88:HIS:HB2	2.19	0.42
6:HD:92:LEU:HD21	6:HD:108:TRP:HE3	1.84	0.42
7:ID:129:ARG:HA	7:ID:129:ARG:NE	2.35	0.42
7:KD:26:ALA:HA	7:KD:29:SER:OG	2.19	0.42
7:MD:22:SER:OG	7:MD:23:ASP:OD1	2.36	0.42
7:MD:30:PHE:CE1	7:MD:37:ARG:NH1	2.88	0.42
7:MD:129:ARG:NE	7:MD:129:ARG:HA	2.35	0.42
7:BE:69:PRO:HG2	7:FE:16:ALA:HB2	2.02	0.42
7:DE:51:MET:HE3	7:DE:137:GLN:CD	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:301:ASN:HD21	6:gL:53:LYS:NZ	2.06	0.42
3:BF:133:ALA:HB2	31:Nf:1001:CYC:HAB1	2.01	0.42
6:QF:140:VAL:HG22	6:QF:146:ALA:HA	2.00	0.42
7:TF:103:SER:O	7:TF:103:SER:OG	2.36	0.42
7:TF:173:GLY:O	7:TF:177:SER:OG	2.33	0.42
6:lF:137:ARG:HE	6:lF:137:ARG:HB2	1.73	0.42
6:CG:81:LYS:HA	6:CG:84:ARG:HG2	2.01	0.42
6:CG:135:ARG:HH12	6:CG:160:ILE:HD12	1.83	0.42
6:EG:5:ILE:HA	6:EG:8:VAL:HG22	2.01	0.42
6:GG:5:ILE:HA	6:GG:8:VAL:HG22	2.01	0.42
6:GG:90:MET:H	6:GG:90:MET:HG3	1.53	0.42
6:GG:91:ARG:HG3	7:HG:18:TYR:CZ	2.54	0.42
6:GG:140:VAL:HG22	6:GG:145:SER:HA	2.00	0.42
6:IG:140:VAL:HG22	6:IG:145:SER:HA	2.00	0.42
7:JG:51:MET:HE2	7:JG:141:PHE:CD2	2.54	0.42
6:KG:5:ILE:HA	6:KG:8:VAL:HG22	2.01	0.42
7:LG:55:ALA:HB2	7:LG:134:MET:HE3	2.01	0.42
7:LG:116:THR:CA	14:MG:233:ALA:CB	2.97	0.42
14:MG:245:MET:SD	14:MG:326:VAL:O	2.77	0.42
2:AI:144:HIS:NE2	2:AI:285:SER:O	2.51	0.42
29:FI:1002:PEB:HMC2	4:KI:145:GLN:NE2	2.35	0.42
4:GI:8:ALA:HB1	4:GI:23:GLU:HB3	2.01	0.42
7:TI:148:GLU:OE1	7:TI:148:GLU:N	2.52	0.42
6:fI:156:LEU:HD23	6:fI:156:LEU:HA	1.91	0.42
7:mI:105:LEU:HD11	7:mI:171:ARG:HD2	2.01	0.42
7:DJ:1:MET:HE3	7:DJ:104:VAL:HB	1.99	0.42
6:EJ:106:ASP:HA	6:EJ:110:ILE:HB	2.00	0.42
7:VJ:124:THR:O	7:VJ:127:SER:OG	2.26	0.42
7:ZJ:40:ALA:HB2	7:ZJ:161:LEU:HD13	2.01	0.42
7:bJ:131:VAL:CG1	7:bJ:169:PHE:HD1	2.32	0.42
7:dJ:1:MET:HE3	7:dJ:104:VAL:HB	1.99	0.42
7:dJ:131:VAL:CG1	7:dJ:169:PHE:HD1	2.32	0.42
7:hJ:40:ALA:HB2	7:hJ:161:LEU:HD13	2.01	0.42
6:kJ:43:LYS:HD2	6:kJ:43:LYS:HA	1.67	0.42
7:nJ:40:ALA:HB2	7:nJ:161:LEU:HD13	2.01	0.42
7:nJ:77:ARG:HH11	16:xJ:99:ARG:NH2	2.18	0.42
6:oJ:33:ARG:NH2	7:rJ:38:LEU:HD13	2.19	0.42
7:rJ:75:THR:OG1	7:rJ:76:ASN:N	2.52	0.42
7:rJ:92:TYR:HB3	7:rJ:105:LEU:HD12	2.01	0.42
7:tJ:75:THR:OG1	7:tJ:76:ASN:N	2.52	0.42
16:wJ:250:SER:O	16:wJ:254:GLN:CG	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:zJ:235:SER:OG	29:zJ:501:PEB:HAC1	2.18	0.42
4:EK:94:MET:HG3	4:EK:111:LEU:HB2	2.01	0.42
4:GK:155:ASP:CG	5:JK:46:SER:HB2	2.45	0.42
7:RK:1:MET:HE3	7:RK:104:VAL:HB	2.01	0.42
7:gK:115:GLU:HA	7:gK:118:ILE:HG12	2.00	0.42
7:HL:75:THR:OG1	7:HL:76:ASN:N	2.52	0.42
6:OL:99:VAL:O	6:OL:99:VAL:HG12	2.18	0.42
7:PL:129:ARG:HD2	7:PL:129:ARG:HA	1.82	0.42
7:TL:78:ARG:HD3	29:TL:201:PEB:HMB3	2.02	0.42
6:eL:99:VAL:O	6:eL:99:VAL:HG12	2.18	0.42
7:fL:131:VAL:CG1	7:fL:169:PHE:HD1	2.32	0.42
7:hL:1:MET:HE3	7:hL:1:MET:HB2	1.80	0.42
7:hL:78:ARG:HD3	29:hL:201:PEB:HMB3	2.02	0.42
7:hL:131:VAL:CG1	7:hL:169:PHE:HD1	2.32	0.42
7:jL:131:VAL:CG1	7:jL:169:PHE:HD1	2.32	0.42
7:IL:78:ARG:HD3	29:IL:201:PEB:HMB3	2.02	0.42
7:IL:92:TYR:HB3	7:IL:105:LEU:HD12	2.01	0.42
6:oL:43:LYS:HA	6:oL:43:LYS:HD2	1.67	0.42
7:rL:78:ARG:HD3	29:rL:201:PEB:HMB3	2.02	0.42
7:rL:92:TYR:HB3	7:rL:105:LEU:HD12	2.01	0.42
16:wL:179:ALA:CA	16:xL:37:THR:CG2	2.97	0.42
16:wL:250:SER:O	16:wL:254:GLN:CG	2.68	0.42
17:yL:126:MET:SD	17:yL:232:GLN:NE2	2.93	0.42
7:JM:50:CYS:HB3	29:JM:203:PEB:H3A1	1.99	0.42
6:KM:3:SER:HB3	6:KM:99:VAL:CG1	2.50	0.42
7:NK:106:GLU:OE1	28:4P:176:LEU:HB2	2.19	0.42
7:ZM:19:VAL:HG13	7:ZM:23:ASP:HB2	2.02	0.42
7:mM:59:MET:HE2	7:mM:59:MET:HB3	1.89	0.42
6:EN:142:ARG:NH1	6:EN:143:ASP:OD1	2.52	0.42
7:FN:115:GLU:HA	7:FN:118:ILE:HG12	2.00	0.42
6:GN:139:CYS:N	6:GN:143:ASP:OD2	2.51	0.42
7:HN:31:ILE:HD13	7:HN:31:ILE:HA	1.88	0.42
7:BO:118:ILE:HG22	9:OO:281:GLY:HA3	2.01	0.42
7:MO:141:PHE:HZ	29:MO:203:PEB:HMA3	1.84	0.42
21:DP:15:GLN:HG2	23:WP:133:ILE:C	2.45	0.42
20:GP:89:LEU:HB2	20:GP:133:MET:CE	2.48	0.42
21:HP:72:MET:O	21:HP:72:MET:HG3	2.20	0.42
20:JP:89:LEU:HB2	20:JP:133:MET:CE	2.48	0.42
21:LP:107:ARG:NH2	24:XP:106:GLN:HE21	2.18	0.42
21:MP:6:THR:HG22	24:XP:129:VAL:HG13	2.01	0.42
31:VP:1001:CYC:HMD3	31:VP:1001:CYC:HC	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:WP:52:ILE:HD12	23:WP:92:GLU:OE1	2.19	0.42
24:XP:107:ARG:HH11	24:XP:111:MET:CE	2.33	0.42
21:kP:71:MEN:O	21:kP:77:ARG:HD3	2.19	0.42
20:rP:17:TYR:HE2	21:wP:44:ILE:HG22	1.84	0.42
21:sP:75:THR:HA	20:vP:115:MET:CE	2.48	0.42
25:1P:621:VAL:O	25:1P:625:ILE:HG13	2.19	0.42
28:4P:40:ARG:HD2	28:4P:41:THR:HG23	2.01	0.42
6:AQ:5:ILE:HA	6:AQ:8:VAL:HG22	2.01	0.42
7:DQ:113:LEU:O	7:DQ:116:THR:OG1	2.29	0.42
7:FQ:51:MET:HE2	7:FQ:141:PHE:CD2	2.54	0.42
7:JQ:137:GLN:HE22	29:JQ:203:PEB:CHA	2.22	0.42
7:RR:67:ILE:HG21	6:UR:84:ARG:NH1	2.35	0.42
7:RR:114:LYS:O	7:RR:118:ILE:HG13	2.20	0.42
7:VR:129:ARG:HA	7:VR:129:ARG:HD2	1.82	0.42
7:VR:133:ILE:O	7:VR:137:GLN:HG3	2.18	0.42
7:XR:67:ILE:O	7:XR:67:ILE:HG22	2.20	0.42
7:XR:149:ARG:HA	7:XR:149:ARG:HD2	1.88	0.42
3:B1:204:ARG:HH11	3:B1:204:ARG:HG2	1.78	0.42
4:C1:37:SER:CB	4:C1:149:GLU:HG2	2.49	0.42
4:M1:130:ILE:HG23	4:M1:158:ILE:HG23	2.02	0.42
6:Q1:52:VAL:CG1	6:Q1:86:VAL:HG12	2.34	0.42
7:V1:124:THR:O	7:V1:127:SER:OG	2.22	0.42
7:Y1:1:MET:HE3	7:Y1:104:VAL:HB	2.01	0.42
7:c1:1:MET:HE3	7:c1:104:VAL:HB	2.01	0.42
6:Q2:113:ALA:HB1	6:Q2:117:TYR:CE2	2.54	0.42
7:R2:67:ILE:HG21	6:U2:84:ARG:NH1	2.35	0.42
7:R2:107:ASP:OD1	7:R2:108:ARG:N	2.52	0.42
7:R2:114:LYS:O	7:R2:118:ILE:HG13	2.20	0.42
7:T2:2:LEU:HD22	7:T2:6:SER:HB2	2.00	0.42
7:T2:125:ASN:ND2	6:U7:75:ASN:HB3	2.35	0.42
7:X2:39:ASP:OD1	29:X2:201:PEB:HHC1	2.20	0.42
6:A3:54:GLU:OE1	29:A3:202:PEB:C3C	2.67	0.42
9:O3:53:GLN:O	9:O3:196:HIS:NE2	2.53	0.42
10:d4:334:LYS:HZ1	10:d4:337:ARG:HH11	1.68	0.42
7:C4:36:LYS:NZ	29:C4:202:PEB:C2B	2.83	0.42
7:C4:125:ASN:HA	7:C4:128:ILE:HD11	2.01	0.42
6:D4:53:LYS:HA	6:D4:53:LYS:CE	2.49	0.42
6:F4:24:LEU:HD13	7:G4:38:LEU:HD22	2.01	0.42
6:F4:87:ASP:HA	6:F4:90:MET:HG2	2.00	0.42
6:H4:2:LYS:HE2	6:H4:7:THR:CG2	2.50	0.42
7:I4:36:LYS:NZ	29:I4:202:PEB:C2B	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I4:125:ASN:HA	7:I4:128:ILE:HD11	2.01	0.42
6:J4:33:ARG:NH2	7:M4:38:LEU:HD13	2.34	0.42
6:L4:58:ALA:O	6:L4:61:ALA:HB3	2.18	0.42
6:L4:87:ASP:HA	6:L4:90:MET:HG2	2.00	0.42
7:M4:123:PRO:O	7:M4:126:SER:OG	2.35	0.42
7:M4:129:ARG:NE	7:M4:129:ARG:HA	2.35	0.42
29:M4:203:PEB:HMC2	29:M4:203:PEB:C4D	2.49	0.42
7:F5:35:ASN:HB3	29:F5:202:PEB:C1C	2.49	0.42
7:G5:35:ASN:HB3	29:G5:202:PEB:C1C	2.49	0.42
7:I5:45:VAL:HG12	7:I5:91:ARG:HH22	1.84	0.42
12:E5:38:LEU:HD12	5:F9:165:ASP:CB	2.50	0.42
1:X7:47:ASN:HD22	7:a7:78:ARG:NH1	2.17	0.42
1:X7:264:GLU:CA	5:D7:115:GLU:CD	2.89	0.42
2:A7:284:ARG:HD2	29:A7:301:PEB:HMA2	2.01	0.42
5:N7:88:ILE:HG21	31:N7:1001:CYC:HAB2	2.01	0.42
6:Q7:1:MET:O	6:Q7:6:THR:HG21	2.18	0.42
6:b7:53:LYS:HA	6:b7:53:LYS:HD3	1.71	0.42
6:h7:18:PHE:HD2	7:i7:45:VAL:HG22	1.83	0.42
7:i7:59:MET:HE2	7:i7:59:MET:HB3	1.97	0.42
7:B8:82:CYS:HA	29:B8:201:PEB:HAA1	1.79	0.42
7:I8:7:ARG:HE	28:4P:138:LEU:HD23	1.85	0.42
29:J8:202:PEB:HBA3	29:J8:202:PEB:H2A1	1.87	0.42
7:C8:36:LYS:HD3	29:C8:202:PEB:CMB	2.48	0.42
2:A9:39:SER:O	7:Y9:91:ARG:NH2	2.52	0.42
5:D9:88:ILE:HG21	31:D9:1001:CYC:HAB2	2.01	0.42
5:F9:74:TYR:CG	5:F9:74:TYR:O	2.69	0.42
7:P9:8:VAL:HG21	7:P9:27:LEU:HD21	2.02	0.42
6:S9:5:ILE:HD13	7:T9:99:ALA:HA	2.01	0.42
7:a9:8:VAL:HG21	7:a9:27:LEU:HD21	2.02	0.42
6:f9:5:ILE:O	6:f9:9:VAL:HG22	2.18	0.42
6:j9:2:LYS:NZ	6:l9:22:SER:OG	2.53	0.42
7:DA:43:SER:O	7:DA:46:SER:OG	2.35	0.42
7:JA:158:CYS:HB3	29:JA:202:PEB:HBA1	1.57	0.42
6:KA:142:ARG:NH1	6:KA:143:ASP:OD1	2.52	0.42
7:LA:43:SER:OG	7:LA:141:PHE:O	2.33	0.42
6:EB:16:GLY:HA2	7:FB:91:ARG:NH1	2.34	0.42
7:FB:50:CYS:HB3	29:FB:203:PEB:H3A1	1.99	0.42
6:GB:3:SER:HB3	6:GB:99:VAL:CG1	2.50	0.42
7:XB:59:MET:HE2	7:XB:59:MET:HB3	1.89	0.42
6:dB:3:SER:HB3	6:dB:99:VAL:CG1	2.50	0.42
6:hB:3:SER:HB3	6:hB:99:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:hB:50:ALA:HB1	29:hB:202:PEB:HBC1	2.00	0.42
7:iB:50:CYS:HB3	29:iB:203:PEB:H3A1	1.99	0.42
7:iB:129:ARG:HD2	7:iB:129:ARG:HA	1.90	0.42
7:kB:19:VAL:HG13	7:kB:23:ASP:HB2	2.02	0.42
7:kB:61:CYS:HB3	29:kB:203:PEB:HAD1	1.44	0.42
6:lB:3:SER:HB3	6:lB:99:VAL:CG1	2.50	0.42
7:BC:55:ALA:CB	7:BC:134:MET:SD	3.02	0.42
7:DC:51:MET:HE3	7:DC:137:GLN:CB	2.37	0.42
6:KC:44:LEU:CD1	6:KC:152:PHE:CZ	2.97	0.42
18:MC:218:GLY:N	18:MC:223:ARG:HE	2.17	0.42
10:dD:157:GLN:HA	10:dD:157:GLN:OE1	2.20	0.42
7:CD:129:ARG:HH21	7:CD:133:ILE:N	2.18	0.42
29:DD:201:PEB:HBC2	7:ID:79:MET:HE2	2.02	0.42
6:FD:139:CYS:HB3	6:FD:141:PRO:HD2	2.02	0.42
7:GD:26:ALA:HA	7:GD:29:SER:OG	2.19	0.42
7:GD:137:GLN:HB3	29:GD:203:PEB:C2B	2.49	0.42
7:ID:5:PHE:HD1	7:ID:27:LEU:HD21	1.84	0.42
7:ID:36:LYS:NZ	29:ID:202:PEB:C2B	2.83	0.42
7:ID:37:ARG:HG2	7:ID:161:LEU:HD11	2.02	0.42
7:ID:85:ASP:HB2	29:ID:201:PEB:HHA1	2.01	0.42
7:MD:123:PRO:O	7:MD:126:SER:OG	2.35	0.42
7:JE:30:PHE:HE1	7:JE:100:GLY:HA3	1.85	0.42
4:IF:24:LEU:HD22	5:JF:38:LEU:HD22	2.02	0.42
7:VF:103:SER:O	7:VF:103:SER:OG	2.36	0.42
7:cF:3:ASP:OD1	7:cF:6:SER:OG	2.30	0.42
6:AG:78:LYS:HE2	29:AG:201:PEB:HMB1	2.01	0.42
6:AG:161:ASN:O	7:DG:49:SER:HB3	2.20	0.42
6:EG:25:GLU:HB3	6:GG:30:ASN:N	2.33	0.42
7:HG:55:ALA:HB2	7:HG:134:MET:HE3	2.00	0.42
7:HG:61:CYS:SG	29:HG:203:PEB:CMD	3.08	0.42
6:IG:5:ILE:HA	6:IG:8:VAL:HG22	2.01	0.42
7:JG:139:VAL:HA	7:JG:142:ILE:HG12	2.00	0.42
2:AI:142:ARG:O	2:AI:146:ILE:HG12	2.20	0.42
4:KI:7:GLU:O	4:KI:11:THR:HG23	2.19	0.42
7:PI:135:LYS:NZ	7:PI:170:ASP:OD1	2.51	0.42
7:TI:107:ASP:OD1	7:TI:107:ASP:N	2.37	0.42
7:VI:24:LEU:HD23	7:VI:24:LEU:HA	1.89	0.42
7:VI:103:SER:O	7:VI:103:SER:OG	2.36	0.42
6:dI:42:GLU:HA	6:dI:45:ALA:HB3	2.00	0.42
29:CJ:202:PEB:HBA3	29:CJ:202:PEB:H2A1	1.91	0.42
7:DJ:131:VAL:CG1	7:DJ:169:PHE:HD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HJ:40:ALA:HB2	7:HJ:161:LEU:HD13	2.01	0.42
6:IJ:73:GLY:HA2	6:IJ:78:LYS:CB	2.49	0.42
7:JJ:78:ARG:HD3	29:JJ:201:PEB:HMB3	2.02	0.42
6:QJ:33:ARG:HE	6:SJ:25:GLU:HA	1.84	0.42
7:RJ:40:ALA:HB2	7:RJ:161:LEU:HD13	2.01	0.42
6:SJ:51:VAL:C	6:SJ:53:LYS:N	2.78	0.42
6:SJ:69:PRO:CG	26:2P:132:LYS:HZ1	2.26	0.42
7:XJ:92:TYR:HB3	7:XJ:105:LEU:HD12	2.01	0.42
6:qJ:33:ARG:NH2	6:qJ:33:ARG:CB	2.73	0.42
6:sJ:2:LYS:HD2	16:xJ:79:THR:O	2.18	0.42
16:wJ:61:ASP:HB3	16:wJ:147:LYS:HB2	2.00	0.42
29:zJ:501:PEB:NA	29:zJ:501:PEB:CMB	2.82	0.42
2:AK:202:MET:SD	2:AK:285:SER:HB2	2.60	0.42
5:JK:29:LYS:O	5:JK:29:LYS:HD2	2.20	0.42
4:KK:130:ILE:HG23	4:KK:158:ILE:HG23	2.02	0.42
6:OK:137:ARG:HG3	29:OK:202:PEB:HHC1	2.00	0.42
6:QK:13:ASP:OD2	7:RK:108:ARG:NH1	2.52	0.42
6:QK:140:VAL:HG12	6:QK:146:ALA:HA	2.01	0.42
7:YK:97:LEU:CD1	7:YK:165:VAL:HG23	2.40	0.42
7:DL:92:TYR:HB3	7:DL:105:LEU:HD12	2.01	0.42
7:VL:75:THR:OG1	7:VL:76:ASN:N	2.52	0.42
7:XL:78:ARG:HD3	29:XL:201:PEB:HMB3	2.02	0.42
7:ZL:131:VAL:CG1	7:ZL:169:PHE:HD1	2.32	0.42
6:cL:135:ARG:NH1	7:fL:149:ARG:CZ	2.82	0.42
7:dL:75:THR:OG1	7:dL:76:ASN:N	2.52	0.42
7:fL:78:ARG:HD3	29:fL:201:PEB:HMB3	2.02	0.42
6:sL:99:VAL:O	6:sL:99:VAL:HG12	2.18	0.42
17:yL:156:LEU:HD11	17:yL:177:LEU:HD13	2.00	0.42
19:zL:73:LYS:HE2	19:zL:73:LYS:HB3	1.91	0.42
6:GM:3:SER:HB3	6:GM:99:VAL:CG1	2.50	0.42
7:HM:19:VAL:HG13	7:HM:23:ASP:HB2	2.02	0.42
7:RM:53:SER:OG	6:YM:119:THR:HG22	2.20	0.42
6:YM:3:SER:HB3	6:YM:99:VAL:CG1	2.50	0.42
6:fM:54:GLU:HG2	6:fM:133:TYR:CE2	2.31	0.42
6:hM:3:SER:HB3	6:hM:99:VAL:CG1	2.50	0.42
7:iM:19:VAL:HG13	7:iM:23:ASP:HB2	2.02	0.42
6:jM:43:LYS:HA	6:jM:43:LYS:HD3	1.90	0.42
6:lM:47:ASN:O	6:lM:51:VAL:HG23	2.19	0.42
7:LN:67:ILE:HD12	7:LN:67:ILE:HA	1.91	0.42
14:MN:267:MET:HA	14:MN:270:ASN:HB3	2.01	0.42
6:AO:42:GLU:CG	7:BO:24:LEU:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FO:1:MET:HG2	7:FO:108:ARG:HH21	1.85	0.42
6:IO:142:ARG:HB3	6:IO:143:ASP:H	1.59	0.42
21:DP:69:GLY:HA2	25:YP:666:ASN:HB2	2.01	0.42
21:FP:112:LEU:HD23	21:FP:160:LEU:HD13	2.01	0.42
20:GP:45:GLU:CD	21:dP:139:SER:CB	2.84	0.42
20:GP:135:ASP:N	20:GP:135:ASP:OD1	2.51	0.42
21:IP:112:LEU:HD23	21:IP:160:LEU:HD13	2.01	0.42
20:PP:8:ILE:HG23	21:UP:94:TYR:CD1	2.54	0.42
21:SP:96:MET:HE3	21:SP:96:MET:HB3	1.91	0.42
25:YP:199:LYS:HB2	25:YP:220:PHE:CD1	2.54	0.42
27:aP:229:LYS:HB2	27:aP:230:PRO:HD2	2.02	0.42
21:hP:71:MEN:HB2	31:hP:1001:CYC:OC	2.19	0.42
21:nP:31:PHE:CE2	22:xP:33:GLY:HA3	2.54	0.42
25:1P:590:TRP:CZ2	25:1P:594:ARG:HD3	2.55	0.42
6:AQ:150:VAL:O	6:AQ:153:SER:OG	2.29	0.42
6:CQ:2:LYS:CD	14:MQ:138:SER:OG	2.67	0.42
6:EQ:140:VAL:HG22	6:EQ:145:SER:HA	2.00	0.42
7:FQ:116:THR:CG2	14:MQ:177:SER:HB2	2.50	0.42
14:MQ:125:ARG:HG2	14:MQ:129:MET:HE2	2.02	0.42
8:eR:262:MET:HE2	7:TR:119:ALA:CB	2.48	0.42
7:PR:114:LYS:O	7:PR:118:ILE:HG13	2.20	0.42
6:QR:113:ALA:HB1	6:QR:117:TYR:CE2	2.54	0.42
7:XR:114:LYS:O	7:XR:118:ILE:HG13	2.20	0.42
7:XR:125:ASN:OD1	7:XR:126:SER:N	2.52	0.42
1:X1:305:PHE:HA	1:X1:370:PRO:HA	2.02	0.42
5:D1:16:GLY:HA3	5:F1:69:PRO:CB	2.50	0.42
29:Y1:201:PEB:HAB1	29:Y1:201:PEB:HHB1	1.91	0.42
6:b1:137:ARG:HG3	29:b1:202:PEB:HHC1	2.00	0.42
7:g1:1:MET:HE3	7:g1:104:VAL:HB	2.01	0.42
7:i1:1:MET:HE3	7:i1:104:VAL:HB	2.01	0.42
8:e2:126:TYR:CD2	7:V2:120:LEU:CD1	3.02	0.42
6:O2:33:ARG:HH11	6:O2:147:GLN:HB3	1.83	0.42
6:O2:138:LEU:HD23	6:O2:138:LEU:O	2.19	0.42
7:R2:2:LEU:HD22	7:R2:6:SER:HB2	2.00	0.42
7:R2:67:ILE:O	7:R2:67:ILE:HG22	2.20	0.42
7:T2:114:LYS:O	7:T2:118:ILE:HG13	2.20	0.42
7:V2:114:LYS:O	7:V2:118:ILE:HG13	2.20	0.42
7:V2:133:ILE:O	7:V2:137:GLN:HG3	2.18	0.42
6:W2:4:VAL:O	6:W2:8:VAL:HG22	2.19	0.42
6:W2:113:ALA:HB1	6:W2:117:TYR:CE2	2.54	0.42
7:B3:142:ILE:CD1	7:B3:165:VAL:HG11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:1:MET:HG2	7:D3:108:ARG:HH21	1.84	0.42
6:E3:105:LEU:HD12	6:E3:105:LEU:HA	1.90	0.42
7:J3:15:LYS:HB2	7:J3:15:LYS:HE2	1.78	0.42
7:N3:91:ARG:HG2	7:N3:91:ARG:H	1.48	0.42
7:N3:141:PHE:HZ	29:N3:203:PEB:HMA3	1.84	0.42
10:d4:103:PHE:HA	10:d4:108:LEU:HB3	2.01	0.42
10:d4:290:GLU:HA	10:d4:296:TYR:CE1	2.55	0.42
7:C4:133:ILE:O	7:C4:137:GLN:HG2	2.20	0.42
7:E4:22:SER:OG	7:E4:23:ASP:OD1	2.36	0.42
7:E4:30:PHE:CE1	7:E4:37:ARG:NH1	2.88	0.42
7:E4:59:MET:SD	7:E4:130:ALA:CB	3.06	0.42
7:E4:129:ARG:NE	7:E4:129:ARG:HA	2.35	0.42
7:G4:30:PHE:CE1	7:G4:37:ARG:NH1	2.88	0.42
7:G4:36:LYS:NZ	29:G4:202:PEB:C2B	2.83	0.42
7:I4:117:TYR:HA	7:I4:120:LEU:HB2	2.02	0.42
6:J4:2:LYS:HE2	6:J4:7:THR:CG2	2.49	0.42
6:L4:92:LEU:HD21	6:L4:108:TRP:HE3	1.84	0.42
7:M4:36:LYS:NZ	29:M4:202:PEB:C2B	2.83	0.42
7:B5:72:MEN:N	7:B5:72:MEN:OD1	2.50	0.42
7:F5:110:LEU:HD21	7:F5:172:VAL:HG12	2.00	0.42
7:I5:27:LEU:HB3	19:zL:294:GLY:O	2.19	0.42
12:E5:37:VAL:HG23	7:a9:167:SER:HG	1.76	0.42
13:k6:226:ALA:HB3	4:E7:76:SER:O	2.20	0.42
29:H7:1002:PEB:HBB1	29:H7:1002:PEB:HAB2	1.91	0.42
6:S7:56:GLY:HA3	6:S7:83:TYR:CE1	2.55	0.42
7:T7:8:VAL:HG21	7:T7:27:LEU:HD21	2.02	0.42
6:W7:2:LYS:NZ	6:Z7:22:SER:OG	2.53	0.42
7:Y7:8:VAL:HG21	7:Y7:27:LEU:HD21	2.02	0.42
6:b7:126:ALA:HB3	29:b7:201:PEB:HMA1	2.01	0.42
7:i7:52:VAL:HG21	7:i7:87:GLU:HG2	2.02	0.42
7:I8:45:VAL:HG12	7:I8:91:ARG:HH22	1.84	0.42
7:L8:76:ASN:ND2	6:OR:75:ASN:HB3	2.34	0.42
2:A9:34:LEU:HB3	2:A9:35:THR:H	1.53	0.42
2:A9:152:CYS:SG	29:A9:304:PEB:HHA1	2.59	0.42
5:J9:75:THR:HA	31:M9:1001:CYC:HBB2	1.98	0.42
6:O9:126:ALA:HB3	29:O9:201:PEB:HMA1	2.01	0.42
29:g9:202:PEB:HAD1	6:h9:33:ARG:HH21	1.85	0.42
6:j9:99:VAL:CG2	7:k9:9:VAL:CG2	2.84	0.42
6:IA:91:ARG:HG2	6:IA:95:TYR:CZ	2.55	0.42
6:IA:134:THR:HA	6:IA:137:ARG:HB3	2.02	0.42
7:JA:35:ASN:OD1	29:JA:202:PEB:ND	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KA:16:GLY:CA	14:MA:247:LYS:HD2	2.49	0.42
17:BB:253:SER:OG	29:XB:201:PEB:O1C	2.37	0.42
7:FB:19:VAL:HG13	7:FB:23:ASP:HB2	2.01	0.42
6:GB:137:ARG:CG	6:GB:137:ARG:NH2	2.78	0.42
6:GB:157:ASP:OD2	7:JB:46:SER:C	2.63	0.42
6:KB:3:SER:HB3	6:KB:99:VAL:CG1	2.50	0.42
7:RB:129:ARG:HD2	7:RB:129:ARG:HA	1.90	0.42
6:UB:3:SER:HB3	6:UB:99:VAL:CG1	2.50	0.42
6:dB:135:ARG:HD2	6:dB:157:ASP:OD2	2.20	0.42
7:iB:125:ASN:OD1	7:iB:125:ASN:C	2.59	0.42
6:lB:47:ASN:O	6:lB:51:VAL:HG23	2.19	0.42
6:AC:44:LEU:O	6:AC:48:HIS:N	2.53	0.42
7:BC:69:PRO:HG2	7:FC:16:ALA:HB2	2.02	0.42
7:DC:30:PHE:HE1	7:DC:100:GLY:HA3	1.85	0.42
10:dD:291:ILE:HG13	10:dD:292:VAL:H	1.84	0.42
6:BD:43:LYS:HA	6:BD:43:LYS:HD2	1.70	0.42
6:BD:49:GLU:O	6:BD:52:VAL:HG22	2.20	0.42
6:BD:118:ARG:NH2	6:LD:118:ARG:NE	2.68	0.42
7:CD:36:LYS:NZ	29:CD:202:PEB:C2B	2.83	0.42
7:CD:129:ARG:NE	7:CD:129:ARG:HA	2.35	0.42
7:ED:5:PHE:HD1	7:ED:27:LEU:HD21	1.84	0.42
7:ED:129:ARG:HH21	7:ED:133:ILE:N	2.18	0.42
6:FD:25:GLU:OE1	6:HD:33:ARG:CD	2.59	0.42
29:GD:202:PEB:HHB1	29:GD:202:PEB:O1B	2.18	0.42
6:HD:139:CYS:HB3	6:HD:141:PRO:HD2	2.01	0.42
7:ID:41:VAL:HG21	7:ID:98:LEU:HD23	2.00	0.42
7:ID:41:VAL:HG11	7:ID:98:LEU:HD21	2.00	0.42
7:KD:123:PRO:O	7:KD:126:SER:OG	2.34	0.42
6:LD:110:ILE:HB	6:LD:114:ARG:HH12	1.84	0.42
6:AE:13:ASP:OD2	7:BE:108:ARG:NH2	2.52	0.42
6:EE:2:LYS:HA	6:EE:2:LYS:HD3	1.84	0.42
7:LE:129:ARG:NH1	7:LE:132:SER:OG	2.53	0.42
3:BF:217:ASP:OD1	27:3P:59:LYS:HD3	2.19	0.42
4:IF:8:ALA:HB1	4:IF:23:GLU:HB3	2.01	0.42
5:JF:7:LYS:HE3	27:3P:119:ALA:HA	1.97	0.42
7:RF:107:ASP:OD1	7:RF:107:ASP:N	2.35	0.42
6:bF:103:GLY:O	6:bF:107:GLU:HB2	2.20	0.42
7:gF:3:ASP:OD1	7:gF:6:SER:OG	2.30	0.42
7:FG:113:LEU:O	7:FG:116:THR:OG1	2.29	0.42
6:GG:37:ARG:HH22	6:GG:98:VAL:C	2.28	0.42
6:IG:14:ALA:HB1	14:MG:259:CYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IG:37:ARG:HH22	6:IG:98:VAL:C	2.28	0.42
6:KG:118:ARG:NH2	14:MG:151:LYS:NZ	2.67	0.42
7:LG:140:ALA:HB3	29:LG:203:PEB:CMB	2.50	0.42
13:kH:76:LEU:HD23	13:kH:76:LEU:C	2.45	0.42
13:kH:267:LYS:NZ	29:TR:203:PEB:CBD	2.83	0.42
1:XI:154:ARG:HH22	1:XI:161:HIS:HD2	1.68	0.42
5:LI:75:THR:CG2	5:LI:76:SER:N	2.77	0.42
7:aI:1:MET:HB2	7:aI:2:LEU:H	1.51	0.42
6:EJ:53:LYS:HA	6:EJ:53:LYS:HD3	1.90	0.42
7:NJ:78:ARG:HD3	29:NJ:201:PEB:HMB3	2.02	0.42
7:VJ:156:GLY:HA2	7:NO:123:PRO:HD3	2.02	0.42
7:XJ:40:ALA:HB2	7:XJ:161:LEU:HD13	2.01	0.42
7:ZJ:111:ASN:HB3	16:xJ:39:LEU:HD22	2.01	0.42
29:dJ:203:PEB:HBA2	29:dJ:203:PEB:H2A1	1.91	0.42
7:hJ:112:GLY:O	7:hJ:116:THR:OG1	2.32	0.42
7:jJ:75:THR:OG1	7:jJ:76:ASN:N	2.52	0.42
6:mJ:98:VAL:O	7:nJ:5:PHE:HD2	2.02	0.42
7:vJ:40:ALA:HB2	7:vJ:161:LEU:HD13	2.01	0.42
7:vJ:109:CYS:O	16:xJ:63:TYR:OH	2.20	0.42
16:xJ:135:CYS:HB2	29:xJ:301:PEB:H3A1	1.57	0.42
5:DK:77:ARG:HH11	5:DK:77:ARG:HD3	1.56	0.42
5:JK:18:PHE:HE1	15:bM:337:PRO:HG3	1.85	0.42
7:YK:1:MET:HE3	7:YK:104:VAL:HB	2.01	0.42
7:cK:1:MET:HE3	7:cK:104:VAL:HB	2.01	0.42
7:gK:1:MET:HE3	7:gK:104:VAL:HB	2.01	0.42
6:hK:52:VAL:CG1	6:hK:86:VAL:HG12	2.34	0.42
6:hK:137:ARG:HG3	29:hK:202:PEB:HHC1	2.00	0.42
7:iK:1:MET:HE3	7:iK:104:VAL:HB	2.01	0.42
6:jK:158:TYR:OH	6:lK:17:ARG:NH2	2.51	0.42
6:lK:54:GLU:OE2	6:lK:137:ARG:NH2	2.52	0.42
7:LL:40:ALA:HB2	7:LL:161:LEU:HD13	2.01	0.42
6:ML:43:LYS:HA	6:ML:43:LYS:HD2	1.67	0.42
7:VL:40:ALA:HB2	7:VL:161:LEU:HD13	2.01	0.42
7:VL:78:ARG:HD3	29:VL:201:PEB:HMB3	2.02	0.42
6:eL:53:LYS:HA	6:eL:53:LYS:HD3	1.90	0.42
16:wL:39:LEU:CD2	17:yL:200:PHE:CE1	3.03	0.42
16:wL:174:GLU:HG2	16:wL:259:TYR:HD1	1.84	0.42
15:bM:233:ASN:ND2	7:JM:13:ASP:OD2	2.53	0.42
15:bM:276:ASN:HB2	28:4P:178:LYS:HE3	2.02	0.42
6:MM:3:SER:HB3	6:MM:99:VAL:CG1	2.50	0.42
7:NM:85:ASP:OD1	29:NM:201:PEB:HHC1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WM:135:ARG:HD2	6:WM:157:ASP:OD2	2.20	0.42
7:ZM:110:LEU:HD21	7:ZM:172:VAL:HG13	2.00	0.42
7:eM:19:VAL:HG13	7:eM:23:ASP:HB2	2.02	0.42
7:gM:110:LEU:HD21	7:gM:172:VAL:HG13	2.00	0.42
6:AN:91:ARG:HG2	6:AN:95:TYR:CZ	2.55	0.42
7:BN:115:GLU:HA	7:BN:118:ILE:HG12	2.00	0.42
6:CN:91:ARG:HG2	6:CN:95:TYR:CZ	2.55	0.42
6:CN:139:CYS:N	6:CN:143:ASP:OD2	2.51	0.42
7:DN:43:SER:O	7:DN:46:SER:OG	2.35	0.42
6:EN:92:LEU:HB3	6:EN:105:LEU:HD23	2.00	0.42
14:MN:174:ARG:O	14:MN:177:SER:OG	2.28	0.42
6:CO:88:HIS:CD2	6:CO:91:ARG:HH21	2.38	0.42
6:GO:24:LEU:C	6:GO:24:LEU:CD1	2.89	0.42
6:KO:88:HIS:CD2	6:KO:91:ARG:HH21	2.38	0.42
7:MO:82:CYS:HA	29:MO:201:PEB:HHA1	2.01	0.42
21:DP:112:LEU:HA	25:YP:479:LEU:HD12	2.02	0.42
21:LP:71:MEN:O	21:LP:77:ARG:HD3	2.19	0.42
23:WP:133:ILE:HG23	23:WP:165:ALA:HA	2.00	0.42
24:XP:74:VAL:HG23	24:XP:116:LEU:HD11	2.00	0.42
25:YP:357:PHE:CD2	25:YP:427:ILE:HD13	2.55	0.42
21:hP:83:ARG:HG3	25:1P:614:TYR:CD2	2.54	0.42
21:qP:112:LEU:HD23	21:qP:160:LEU:HD13	2.01	0.42
21:wP:72:MET:HA	21:wP:77:ARG:HB2	2.00	0.42
28:4P:220:LYS:HZ2	28:4P:222:VAL:HG22	1.83	0.42
29:BQ:202:PEB:HAC2	29:BQ:202:PEB:HHB1	1.94	0.42
6:GQ:81:LYS:HG2	6:GQ:84:ARG:HE	1.83	0.42
7:JQ:150:LYS:HA	7:JQ:150:LYS:HD3	1.84	0.42
6:MR:23:ASP:O	6:MR:26:SER:OG	2.36	0.42
29:OR:201:PEB:CMC	7:TR:79:MET:HG3	2.49	0.42
7:PR:2:LEU:HD22	7:PR:6:SER:HB2	2.00	0.42
7:RR:39:ASP:OD1	29:RR:202:PEB:HHC1	2.20	0.42
7:RR:149:ARG:HA	7:RR:149:ARG:HD2	1.88	0.42
7:VR:67:ILE:O	7:VR:67:ILE:HG22	2.20	0.42
1:X1:123:LEU:HD23	1:X1:201:ASP:HB3	2.02	0.42
1:X1:167:LEU:HD13	1:X1:253:ILE:HG23	2.02	0.42
1:X1:219:ALA:HA	1:X1:257:PRO:HB3	2.01	0.42
3:B1:204:ARG:CB	5:L1:125:SER:CB	2.98	0.42
5:D1:34:GLY:O	5:D1:38:LEU:HG	2.20	0.42
5:D1:40:ILE:CD1	5:D1:156:LEU:CD1	2.98	0.42
5:N1:148:THR:HG21	29:N1:1002:PEB:HMA3	2.01	0.42
7:c1:69:PRO:CB	7:g1:16:ALA:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f1:28:GLN:CD	6:h1:33:ARG:HH12	2.17	0.42
7:i1:97:LEU:CD1	7:i1:165:VAL:HG23	2.40	0.42
8:e2:61:GLN:O	8:e2:65:THR:HB	2.19	0.42
6:M2:16:GLY:HA2	7:N2:91:ARG:NH1	2.34	0.42
6:M2:103:GLY:O	6:M2:107:GLU:HG2	2.20	0.42
6:O2:77:GLU:C	6:O2:77:GLU:OE1	2.62	0.42
29:R2:202:PEB:HHC1	29:R2:202:PEB:HMD3	1.77	0.42
6:S2:43:LYS:HD3	6:S2:43:LYS:HA	1.77	0.42
6:U2:33:ARG:HH11	6:U2:147:GLN:HB3	1.83	0.42
6:W2:33:ARG:O	6:W2:33:ARG:HG2	2.19	0.42
6:W2:116:VAL:CG1	6:W2:120:LEU:HD12	2.41	0.42
6:I3:42:GLU:O	6:I3:42:GLU:OE2	2.33	0.42
10:d4:198:TYR:O	10:d4:199:MET:HG2	2.19	0.42
10:d4:207:MET:HE2	10:d4:207:MET:HB3	1.87	0.42
10:d4:327:SER:HB2	10:dD:338:GLU:HG3	1.95	0.42
6:B4:27:ILE:H	6:B4:27:ILE:HG13	1.18	0.42
6:B4:85:ASP:O	6:B4:88:HIS:HB2	2.19	0.42
7:C4:22:SER:OG	7:C4:23:ASP:OD1	2.36	0.42
7:C4:30:PHE:CE1	7:C4:37:ARG:NH1	2.88	0.42
7:C4:37:ARG:HG2	7:C4:161:LEU:HD11	2.02	0.42
7:C4:117:TYR:HA	7:C4:120:LEU:HB2	2.02	0.42
7:G4:75:THR:HG22	7:G4:76:ASN:H	1.84	0.42
7:I4:133:ILE:O	7:I4:137:GLN:HG2	2.20	0.42
6:J4:53:LYS:HA	6:J4:53:LYS:CE	2.49	0.42
7:K4:2:LEU:HD22	7:K4:6:SER:HB2	2.00	0.42
7:K4:54:ASP:OD2	29:K4:203:PEB:HHA1	2.19	0.42
7:K4:93:VAL:HG11	7:K4:169:PHE:CE1	2.54	0.42
7:M4:37:ARG:HG2	7:M4:161:LEU:HD11	2.02	0.42
7:M4:135:LYS:CE	7:M4:169:PHE:HB2	2.50	0.42
7:I5:21:GLY:C	7:I5:23:ASP:OD1	2.62	0.42
6:J5:150:VAL:HG11	7:LL:157:ASP:HB2	2.00	0.42
12:E5:72:MET:CE	5:HI:145:THR:CG2	2.98	0.42
1:X7:163:ARG:NH1	29:R7:201:PEB:O1C	2.53	0.42
1:X7:323:ALA:O	1:X7:325:LYS:HD3	2.19	0.42
5:F7:35:ASN:HB3	29:F7:1002:PEB:H1D1	2.00	0.42
5:H7:65:GLN:H	5:H7:65:GLN:HG2	1.64	0.42
7:c7:8:VAL:HG21	7:c7:27:LEU:HD21	2.02	0.42
6:j7:2:LYS:NZ	6:l7:22:SER:OG	2.53	0.42
7:k7:8:VAL:HG21	7:k7:27:LEU:HD21	2.02	0.42
7:m7:59:MET:HE2	7:m7:59:MET:HB3	1.96	0.42
7:B8:35:ASN:HB3	29:B8:202:PEB:C1C	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I8:23:ASP:OD1	7:I8:23:ASP:N	2.51	0.42
7:L8:108:ARG:HH11	4:I9:64:PRO:HD3	1.79	0.42
7:L8:120:LEU:HD21	13:kH:283:LYS:HZ1	1.84	0.42
7:C8:45:VAL:HG12	7:C8:91:ARG:HH22	1.84	0.42
2:A9:77:ALA:N	7:e9:115:GLU:OE2	2.52	0.42
29:L9:1002:PEB:HHB1	29:L9:1002:PEB:HAB2	1.91	0.42
7:P9:59:MET:HE2	7:P9:59:MET:HB3	1.96	0.42
7:Y9:8:VAL:HG21	7:Y9:27:LEU:HD21	2.02	0.42
7:c9:59:MET:HE2	7:c9:59:MET:HB3	1.96	0.42
6:h9:6:THR:HB	7:i9:1:MET:HE3	2.01	0.42
6:h9:24:LEU:HD22	7:i9:38:LEU:HD22	2.02	0.42
7:BA:158:CYS:HB3	29:BA:202:PEB:HBA1	1.57	0.42
7:DA:109:CYS:HB2	7:DA:113:LEU:HD11	2.02	0.42
7:DA:113:LEU:O	7:DA:116:THR:OG1	2.29	0.42
7:JA:38:LEU:HD23	7:JA:38:LEU:HA	1.83	0.42
14:MA:104:SER:O	14:MA:105:LYS:HD3	2.19	0.42
16:AB:64:MET:HG3	29:AB:301:PEB:HBD2	2.01	0.42
6:EB:135:ARG:HD2	6:EB:157:ASP:OD2	2.20	0.42
6:IB:3:SER:HB3	6:IB:99:VAL:CG1	2.50	0.42
7:PB:19:VAL:HG13	7:PB:23:ASP:HB2	2.02	0.42
7:TB:170:ASP:OD1	7:TB:170:ASP:N	2.53	0.42
7:XB:50:CYS:HB3	29:XB:202:PEB:H3A1	1.99	0.42
7:ZB:127:SER:HB3	7:ZB:176:ILE:HD12	2.02	0.42
6:fB:135:ARG:HD2	6:fB:157:ASP:OD2	2.20	0.42
7:iB:1:MET:HE3	7:iB:1:MET:HB2	1.89	0.42
7:DC:148:GLU:OE1	29:DC:202:PEB:NA	2.53	0.42
7:FC:30:PHE:HE1	7:FC:100:GLY:HA3	1.85	0.42
29:FC:201:PEB:NB	29:FC:201:PEB:NC	2.65	0.42
10:dD:91:GLU:OE1	10:dD:94:ALA:HB3	2.19	0.42
10:dD:121:ASP:O	10:dD:125:ARG:CG	2.67	0.42
10:dD:270:ARG:CD	7:MD:78:ARG:HH21	2.18	0.42
7:CD:37:ARG:HG2	7:CD:161:LEU:HD11	2.02	0.42
6:DD:113:ALA:O	6:DD:114:ARG:C	2.62	0.42
7:ED:133:ILE:O	7:ED:137:GLN:HG2	2.20	0.42
7:ED:135:LYS:CE	7:ED:169:PHE:HB2	2.50	0.42
6:FD:91:ARG:NH1	6:FD:95:TYR:OH	2.53	0.42
7:GD:129:ARG:NE	7:GD:129:ARG:HA	2.35	0.42
7:ID:125:ASN:HA	7:ID:128:ILE:HD11	2.01	0.42
6:JD:130:SER:O	6:JD:134:THR:HG23	2.20	0.42
7:KD:77:ARG:NH2	29:KD:201:PEB:CGB	2.80	0.42
7:KD:129:ARG:HH21	7:KD:133:ILE:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LD:139:CYS:HB3	6:LD:141:PRO:HD2	2.02	0.42
7:DE:148:GLU:OE1	29:DE:202:PEB:NA	2.53	0.42
7:FE:123:PRO:O	7:FE:126:SER:OG	2.35	0.42
6:IE:25:GLU:HG2	6:KE:4:VAL:HG11	2.02	0.42
6:IE:44:LEU:O	6:IE:48:HIS:N	2.53	0.42
2:AF:210:GLY:HA3	6:fF:2:LYS:NZ	2.35	0.42
5:DF:74:TYR:HH	4:GF:93:ARG:NH2	2.17	0.42
6:QF:103:GLY:O	6:QF:107:GLU:HB2	2.20	0.42
6:jF:103:GLY:O	6:jF:107:GLU:HB2	2.20	0.42
7:FG:61:CYS:SG	29:FG:203:PEB:CBD	3.08	0.42
6:GG:135:ARG:HH12	6:GG:160:ILE:HD12	1.83	0.42
6:KG:14:ALA:CB	30:MG:402:PUB:CMA	2.98	0.42
3:BI:133:ALA:HB2	31:NI:1001:CYC:HAB1	2.01	0.42
4:CI:159:ASN:HD21	5:NI:46:SER:HA	1.84	0.42
7:eI:3:ASP:OD1	7:eI:3:ASP:N	2.46	0.42
7:BJ:78:ARG:HD3	29:BJ:201:PEB:HMB3	2.02	0.42
7:BJ:92:TYR:HB3	7:BJ:105:LEU:HD12	2.01	0.42
7:DJ:78:ARG:HD3	29:DJ:201:PEB:HMB3	2.02	0.42
7:DJ:92:TYR:HB3	7:DJ:105:LEU:HD12	2.01	0.42
6:EJ:68:ASN:CB	6:EJ:71:GLU:OE2	2.60	0.42
7:FJ:35:ASN:ND2	29:FJ:202:PEB:CBC	2.81	0.42
6:IJ:67:LYS:HB3	6:IJ:67:LYS:HE2	1.57	0.42
29:IJ:202:PEB:HBA3	29:IJ:202:PEB:H2A1	1.91	0.42
7:LJ:92:TYR:HB3	7:LJ:105:LEU:HD12	2.01	0.42
7:NJ:108:ARG:HH21	16:wJ:41:ASN:HB2	1.78	0.42
7:PJ:78:ARG:HD3	29:PJ:201:PEB:HMB3	2.02	0.42
7:PJ:92:TYR:HB3	7:PJ:105:LEU:HD12	2.01	0.42
6:eJ:139:CYS:HB3	29:eJ:202:PEB:H3A1	1.72	0.42
7:jJ:92:TYR:HB3	7:jJ:105:LEU:HD12	2.01	0.42
6:kJ:22:SER:OG	6:mJ:101:GLY:HA2	2.19	0.42
7:lJ:78:ARG:HD3	29:lJ:201:PEB:HMB3	2.02	0.42
29:oJ:202:PEB:HBA3	29:oJ:202:PEB:H2A1	1.91	0.42
29:tJ:201:PEB:CBD	16:xJ:220:TYR:CD2	3.02	0.42
16:xJ:174:GLU:HG2	16:xJ:259:TYR:HD1	1.84	0.42
19:zJ:212:PHE:CB	19:zJ:216:TYR:OH	2.67	0.42
1:XK:305:PHE:HA	1:XK:370:PRO:HA	2.02	0.42
4:MK:130:ILE:HG23	4:MK:158:ILE:HG23	2.02	0.42
5:NK:18:PHE:HB3	5:NK:19:LEU:H	1.65	0.42
6:OK:5:ILE:HD13	7:PK:3:ASP:OD2	2.18	0.42
6:OK:49:GLU:OE1	6:OK:49:GLU:N	2.45	0.42
6:QK:157:ASP:HA	6:QK:160:ILE:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZK:49:GLU:OE1	6:ZK:49:GLU:N	2.45	0.42
6:bK:49:GLU:OE1	6:bK:49:GLU:N	2.45	0.42
6:bK:137:ARG:HG3	29:bK:202:PEB:HHC1	2.00	0.42
7:eK:97:LEU:CD1	7:eK:165:VAL:HG23	2.40	0.42
6:fK:157:ASP:HA	6:fK:160:ILE:HB	2.02	0.42
6:jK:157:ASP:HA	6:jK:160:ILE:HB	2.02	0.42
7:DL:24:LEU:C	7:DL:26:ALA:N	2.77	0.42
29:EL:202:PEB:HBA3	29:EL:202:PEB:H2A1	1.91	0.42
7:FL:115:GLU:H	7:FL:115:GLU:HG2	1.63	0.42
6:IL:74:GLU:H	6:IL:74:GLU:HG3	1.71	0.42
7:JL:131:VAL:CG1	7:JL:169:PHE:HD1	2.32	0.42
7:RL:129:ARG:HD2	7:RL:129:ARG:HA	1.81	0.42
6:UL:33:ARG:CD	6:WL:25:GLU:HG2	2.49	0.42
6:WL:53:LYS:HA	6:WL:53:LYS:HD3	1.90	0.42
6:cL:43:LYS:HA	6:cL:43:LYS:HD2	1.67	0.42
6:eL:106:ASP:HA	6:eL:110:ILE:HB	2.00	0.42
6:iL:99:VAL:O	6:iL:99:VAL:HG12	2.18	0.42
6:mL:99:VAL:HG12	7:nL:5:PHE:C	2.45	0.42
6:mL:104:PRO:HB3	7:nL:9:VAL:CG1	2.49	0.42
7:vL:131:VAL:CG1	7:vL:169:PHE:HD1	2.32	0.42
19:zL:224:LEU:HD12	19:zL:224:LEU:HA	1.92	0.42
16:AM:186:LYS:HA	16:AM:186:LYS:HD3	1.89	0.42
6:UM:54:GLU:HG2	6:UM:133:TYR:CE2	2.31	0.42
6:YM:18:PHE:HD2	7:ZM:45:VAL:HG12	1.85	0.42
6:aM:3:SER:HB3	6:aM:99:VAL:CG1	2.50	0.42
6:dM:3:SER:HB3	6:dM:99:VAL:CG1	2.50	0.42
6:dM:135:ARG:HD2	6:dM:157:ASP:OD2	2.20	0.42
6:fM:3:SER:HB3	6:fM:99:VAL:CG1	2.50	0.42
6:fM:94:ASN:OD1	7:gM:19:VAL:N	2.36	0.42
7:iM:82:CYS:HA	29:iM:201:PEB:HAA1	1.85	0.42
6:AN:142:ARG:NH1	6:AN:143:ASP:OD1	2.52	0.42
29:FN:201:PEB:CAC	14:MN:174:ARG:HH12	2.00	0.42
6:KN:134:THR:HA	6:KN:137:ARG:HB3	2.02	0.42
7:LN:109:CYS:HB2	7:LN:113:LEU:HD11	2.02	0.42
14:MN:151:LYS:HA	14:MN:151:LYS:HD3	1.83	0.42
7:NO:82:CYS:HA	29:NO:201:PEB:HHA1	2.01	0.42
9:OO:70:ARG:HD3	9:OO:70:ARG:HA	1.90	0.42
21:FP:110:ASN:HD22	25:YP:654:ARG:HG3	1.84	0.42
21:LP:38:VAL:HG13	22:VP:23:LEU:HD22	2.01	0.42
20:PP:114:GLU:HG3	26:ZP:155:GLY:N	2.34	0.42
23:WP:23:GLY:O	23:WP:27:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XP:57:ILE:HG21	24:XP:103:ALA:CB	2.46	0.42
25:YP:15:GLN:HB3	25:YP:257:GLY:CA	2.49	0.42
25:YP:512:GLU:HB2	25:YP:514:ILE:CG1	2.45	0.42
27:aP:103:VAL:HG23	27:aP:104:LEU:H	1.84	0.42
21:nP:112:LEU:HD23	21:nP:160:LEU:HD13	2.01	0.42
22:xP:48:GLN:NE2	22:xP:52:ARG:HH21	2.17	0.42
22:xP:134:LYS:HB2	22:xP:153:TYR:CD1	2.54	0.42
31:xP:1001:CYC:HMD3	31:xP:1001:CYC:HC	1.85	0.42
25:1P:19:THR:HG22	25:1P:21:SER:H	1.85	0.42
25:1P:827:GLU:OE2	25:1P:841:ARG:NH1	2.43	0.42
27:3P:60:ALA:HB2	27:3P:70:ASN:CG	2.45	0.42
6:AQ:78:LYS:HE2	29:AQ:201:PEB:HMB1	2.01	0.42
6:GQ:91:ARG:HG3	7:HQ:18:TYR:CZ	2.54	0.42
6:IQ:135:ARG:HE	6:IQ:156:LEU:HD13	1.85	0.42
7:LQ:55:ALA:HB2	7:LQ:134:MET:HE3	2.01	0.42
14:MQ:149:ALA:H	14:MQ:153:MET:HB2	1.85	0.42
8:eR:125:ARG:H	8:eR:125:ARG:HG3	1.61	0.42
8:eR:221:ASN:HD22	7:TR:113:LEU:CA	2.32	0.42
7:RR:154:ALA:HB3	29:RR:202:PEB:C4B	2.49	0.42
7:TR:114:LYS:O	7:TR:118:ILE:HG13	2.20	0.42
6:UR:26:SER:HB3	6:WR:26:SER:HB3	2.02	0.42
6:UR:113:ALA:HB1	6:UR:117:TYR:CE2	2.54	0.42
6:WR:142:ARG:CB	29:WR:202:PEB:HBA1	2.50	0.42
4:E1:43:ALA:HB1	4:E1:142:LEU:HD21	2.01	0.42
4:E1:73:ALA:HA	31:E1:1001:CYC:HBD2	2.00	0.42
4:E1:122:PHE:CE2	31:E1:1001:CYC:HAA1	2.55	0.42
4:I1:130:ILE:HG23	4:I1:158:ILE:HG23	2.02	0.42
5:J1:17:GLU:HG3	15:bB:333:ARG:CG	2.50	0.42
4:M1:111:LEU:HD23	31:M1:1001:CYC:CBB	2.48	0.42
7:a1:97:LEU:CD1	7:a1:165:VAL:HG23	2.40	0.42
7:e1:151:MET:HE2	7:e1:151:MET:HB3	1.90	0.42
8:e2:125:ARG:CB	29:V2:201:PEB:CGC	2.92	0.42
6:M2:33:ARG:HH11	6:M2:147:GLN:HB3	1.84	0.42
7:N2:2:LEU:HD22	7:N2:6:SER:HB2	2.00	0.42
7:N2:72:MEN:O	7:N2:78:ARG:CD	2.68	0.42
6:Q2:16:GLY:HA2	7:R2:91:ARG:HH12	1.77	0.42
7:V2:134:MET:HA	7:V2:137:GLN:CG	2.50	0.42
7:X2:67:ILE:O	7:X2:67:ILE:HG22	2.20	0.42
7:X2:114:LYS:O	7:X2:118:ILE:HG13	2.20	0.42
7:N3:83:LEU:CB	9:O3:402:ILE:HG13	2.47	0.42
9:O3:267:THR:HG21	5:LI:18:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:253:ALA:HB3	7:E4:119:ALA:HB1	2.02	0.42
10:d4:270:ARG:CD	7:M4:78:ARG:HH22	2.21	0.42
6:B4:113:ALA:O	6:B4:114:ARG:C	2.61	0.42
6:B4:118:ARG:NH2	6:L4:118:ARG:NE	2.68	0.42
6:D4:49:GLU:O	6:D4:52:VAL:HG22	2.20	0.42
7:E4:125:ASN:HA	7:E4:128:ILE:HD11	2.01	0.42
6:F4:2:LYS:HE2	6:F4:7:THR:CG2	2.49	0.42
6:F4:25:GLU:CD	6:H4:33:ARG:HG3	2.40	0.42
7:G4:129:ARG:NE	7:G4:129:ARG:HA	2.34	0.42
7:G4:129:ARG:HH21	7:G4:133:ILE:N	2.18	0.42
7:G4:135:LYS:CE	7:G4:169:PHE:HB2	2.50	0.42
7:I4:41:VAL:HG21	7:I4:98:LEU:HD23	2.00	0.42
7:I4:104:VAL:CG2	7:I4:108:ARG:CZ	2.98	0.42
3:B7:94:ARG:HH12	4:K7:14:ASN:HD21	1.67	0.42
3:B7:191:LYS:HZ2	3:B7:191:LYS:HB2	1.85	0.42
7:T7:5:PHE:HD1	7:T7:27:LEU:HD22	1.85	0.42
6:b7:109:GLY:O	7:k7:76:ASN:ND2	2.52	0.42
7:c7:52:VAL:HG21	7:c7:87:GLU:HG2	2.01	0.42
29:g7:202:PEB:HAD1	6:h7:33:ARG:HH21	1.85	0.42
7:F8:35:ASN:HB3	29:F8:202:PEB:C1C	2.49	0.42
7:H8:35:ASN:HB3	29:H8:202:PEB:C1C	2.49	0.42
7:I8:6:SER:HB2	7:I8:26:ALA:HB3	1.94	0.42
7:K8:92:TYR:CE1	7:K8:108:ARG:HB3	2.54	0.42
7:A8:142:ILE:HA	7:A8:142:ILE:HD12	1.68	0.42
7:C8:16:ALA:HA	11:D8:265:LEU:O	2.20	0.42
3:B9:137:LEU:HD12	3:B9:137:LEU:HA	1.85	0.42
7:T9:5:PHE:HD1	7:T9:27:LEU:HD22	1.85	0.42
7:V9:139:VAL:HG11	13:kH:161:ILE:HD11	2.01	0.42
7:a9:59:MET:HA	7:a9:62:GLU:OE2	2.20	0.42
7:c9:52:VAL:HG21	7:c9:87:GLU:HG2	2.01	0.42
7:c9:120:LEU:HB2	7:c9:122:VAL:HG23	2.02	0.42
6:j9:126:ALA:HB3	29:j9:201:PEB:HMA1	2.01	0.42
6:AA:27:ILE:HG21	7:BA:38:LEU:HD21	2.02	0.42
6:AA:134:THR:HA	6:AA:137:ARG:HB3	2.02	0.42
7:BA:110:LEU:HA	7:BA:113:LEU:HD23	2.02	0.42
7:JA:20:GLY:O	7:JA:22:SER:N	2.53	0.42
14:MA:245:MET:HB3	14:MA:327:ARG:HH21	1.85	0.42
15:bB:370:TYR:HE2	21:MP:58:LYS:O	2.02	0.42
6:QB:3:SER:HB3	6:QB:99:VAL:CG1	2.50	0.42
7:cB:110:LEU:HD21	7:cB:172:VAL:HG13	2.00	0.42
6:dB:6:THR:HG22	7:eB:1:MET:HE2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:fB:3:SER:HB3	6:fB:99:VAL:CG1	2.50	0.42
6:jB:147:GLN:HE21	6:jB:147:GLN:HA	1.84	0.42
7:mB:19:VAL:HG13	7:mB:23:ASP:HB2	2.02	0.42
6:CC:2:LYS:HA	6:CC:2:LYS:HD3	1.84	0.42
6:EC:106:ASP:HA	6:EC:110:ILE:HB	2.01	0.42
6:GC:106:ASP:HA	6:GC:110:ILE:HB	2.01	0.42
7:HC:148:GLU:OE1	29:HC:203:PEB:NA	2.53	0.42
6:IC:25:GLU:HG2	6:KC:4:VAL:HG11	2.02	0.42
10:dD:298:TYR:O	10:dD:299:LEU:HD23	2.20	0.42
6:BD:53:LYS:HA	6:BD:53:LYS:CE	2.49	0.42
6:DD:91:ARG:NH1	6:DD:95:TYR:OH	2.53	0.42
6:FD:53:LYS:HA	6:FD:53:LYS:CE	2.49	0.42
6:LD:2:LYS:HE2	6:LD:7:THR:CG2	2.49	0.42
7:BE:129:ARG:NH1	7:BE:132:SER:OG	2.53	0.42
7:FE:30:PHE:HE1	7:FE:100:GLY:HA3	1.85	0.42
6:GE:44:LEU:O	6:GE:48:HIS:N	2.53	0.42
2:AF:142:ARG:O	2:AF:146:ILE:HG12	2.20	0.42
3:BF:31:ILE:H	3:BF:31:ILE:HG12	1.56	0.42
3:BF:182:PRO:HG3	5:JF:116:THR:HG23	2.02	0.42
3:BF:210:GLU:O	27:3P:71:VAL:HG21	2.19	0.42
4:GF:8:ALA:HB1	4:GF:23:GLU:HB3	2.01	0.42
7:YF:24:LEU:HD23	7:YF:24:LEU:HA	1.89	0.42
6:AG:150:VAL:O	6:AG:153:SER:OG	2.29	0.42
7:FG:97:LEU:HD21	7:FG:165:VAL:HB	2.02	0.42
6:GG:114:ARG:CD	6:IG:114:ARG:NH1	2.78	0.42
1:XI:302:THR:HG23	1:XI:356:THR:HG23	2.02	0.42
1:XI:362:PRO:HG2	7:PI:114:LYS:HZ1	1.85	0.42
6:OI:103:GLY:O	6:OI:107:GLU:HB2	2.20	0.42
7:eI:56:VAL:O	7:eI:56:VAL:HG22	2.19	0.42
7:DJ:24:LEU:C	7:DJ:26:ALA:N	2.77	0.42
7:FJ:37:ARG:HB2	7:FJ:161:LEU:HD21	2.02	0.42
7:FJ:78:ARG:HD3	29:FJ:201:PEB:HMB3	2.02	0.42
7:JJ:131:VAL:CG1	7:JJ:169:PHE:HD1	2.32	0.42
7:LJ:15:LYS:HB2	7:LJ:15:LYS:HE2	1.74	0.42
7:RJ:78:ARG:HD3	29:RJ:201:PEB:HMB3	2.02	0.42
7:TJ:78:ARG:HD3	29:TJ:201:PEB:HMB3	2.02	0.42
6:UJ:71:GLU:N	6:UJ:74:GLU:HG3	2.34	0.42
7:bJ:19:VAL:CG1	7:bJ:23:ASP:OD1	2.57	0.42
7:jJ:78:ARG:HD3	29:jJ:201:PEB:HMB3	2.02	0.42
6:mJ:11:ALA:HB2	16:xJ:195:TYR:CE2	2.55	0.42
29:mJ:202:PEB:HBA3	29:mJ:202:PEB:H2A1	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:vJ:131:VAL:CG1	7:vJ:169:PHE:HD1	2.32	0.42
1:XK:167:LEU:HD13	1:XK:253:ILE:HG23	2.02	0.42
6:SK:74:GLU:H	6:SK:74:GLU:HG2	1.65	0.42
7:TK:1:MET:HE3	7:TK:104:VAL:HB	2.01	0.42
6:fK:140:VAL:HG12	6:fK:146:ALA:HA	2.01	0.42
6:hK:135:ARG:HD3	6:hK:157:ASP:CG	2.35	0.42
7:mK:1:MET:HE3	7:mK:104:VAL:HB	2.01	0.42
7:BL:78:ARG:HD3	29:BL:201:PEB:HMB3	2.02	0.42
6:ML:78:LYS:HD2	6:ML:78:LYS:HA	1.79	0.42
7:NL:78:ARG:HD3	29:NL:201:PEB:HMB3	2.02	0.42
7:PL:131:VAL:CG1	7:PL:169:PHE:HD1	2.32	0.42
7:RL:40:ALA:HB2	7:RL:161:LEU:HD13	2.01	0.42
29:cL:202:PEB:HBA3	29:cL:202:PEB:H2A1	1.91	0.42
7:fL:40:ALA:HB2	7:fL:161:LEU:HD13	2.01	0.42
7:pL:129:ARG:HD2	7:pL:129:ARG:HA	1.82	0.42
19:zL:41:ALA:O	19:zL:43:ARG:NH1	2.52	0.42
7:FM:53:SER:HB2	6:MM:120:LEU:HD23	2.01	0.42
6:UM:43:LYS:HE3	14:MQ:115:TYR:CD2	2.50	0.42
7:ZM:7:ARG:HA	7:ZM:7:ARG:HD3	1.90	0.42
6:dM:9:VAL:HG13	7:eM:95:TYR:CG	2.55	0.42
6:hM:135:ARG:HD2	6:hM:157:ASP:OD2	2.20	0.42
7:iM:85:ASP:OD2	29:iM:201:PEB:NC	2.45	0.42
6:jM:144:MET:HE2	6:jM:144:MET:HB3	1.96	0.42
6:AN:134:THR:HA	6:AN:137:ARG:HB3	2.02	0.42
6:EN:91:ARG:HG2	6:EN:95:TYR:CZ	2.55	0.42
7:FN:59:MET:HG3	7:FN:130:ALA:HB2	2.02	0.42
6:GN:91:ARG:HG2	6:GN:95:TYR:CZ	2.55	0.42
7:JN:110:LEU:HA	7:JN:113:LEU:HD23	2.02	0.42
20:GP:12:ASP:OD2	25:YP:245:GLN:HA	2.20	0.42
20:JP:77:MET:HA	20:JP:77:MET:HE2	2.02	0.42
21:LP:107:ARG:HH11	24:XP:109:GLN:HB2	1.84	0.42
21:MP:34:GLY:HA3	20:NP:30:VAL:HG11	2.02	0.42
20:PP:15:ALA:HA	21:UP:90:ARG:NH1	2.34	0.42
21:SP:73:TYR:CE2	21:UP:13:ASP:OD1	2.73	0.42
25:YP:621:VAL:O	25:YP:625:ILE:HG13	2.19	0.42
27:aP:38:TYR:HD1	20:vP:106:GLU:OE1	2.02	0.42
21:jP:17:LYS:HE2	25:1P:94:GLU:OE1	2.20	0.42
20:rP:17:TYR:CB	21:wP:45:ALA:HB2	2.49	0.42
21:sP:31:PHE:CG	20:tP:33:GLY:HA3	2.55	0.42
22:xP:65:TYR:O	22:xP:70:GLY:HA3	2.20	0.42
25:1P:489:ASN:O	25:1P:490:GLN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EQ:5:ILE:HA	6:EQ:8:VAL:HG22	2.01	0.42
6:GQ:5:ILE:HA	6:GQ:8:VAL:HG22	2.01	0.42
7:JQ:97:LEU:HD21	7:JQ:165:VAL:HB	2.02	0.42
7:JQ:135:LYS:NZ	7:JQ:166:ALA:O	2.50	0.42
7:NR:107:ASP:OD1	7:NR:108:ARG:N	2.52	0.42
6:QR:18:PHE:CE2	7:RR:48:ALA:HB1	2.55	0.42
6:QR:33:ARG:HH11	6:QR:147:GLN:HB3	1.83	0.42
29:QR:201:PEB:CMB	29:QR:201:PEB:HNA	2.33	0.42
7:TR:125:ASN:OD1	7:TR:126:SER:N	2.52	0.42
6:WR:4:VAL:O	6:WR:8:VAL:HG22	2.19	0.42
6:WR:63:TYR:HB3	6:WR:66:LEU:HD13	2.02	0.42
6:WR:103:GLY:O	6:WR:107:GLU:HG2	2.20	0.42
6:WR:157:ASP:HA	6:WR:160:ILE:HB	2.02	0.42
1:X1:350:GLU:H	1:X1:350:GLU:HG2	1.65	0.42
4:E1:30:ARG:HD2	4:K1:25:GLN:OE1	2.19	0.42
4:E1:32:GLN:HG3	4:K1:32:GLN:HG3	2.01	0.42
4:G1:63:PHE:O	4:G1:66:THR:HG23	2.20	0.42
5:H1:77:ARG:HH11	5:H1:77:ARG:HD3	1.56	0.42
5:L1:82:CYS:HB3	31:L1:1001:CYC:HBC1	1.86	0.42
4:M1:107:MET:C	4:M1:109:GLU:H	2.28	0.42
6:W1:33:ARG:HG3	6:Z1:25:GLU:HG2	2.02	0.42
6:W1:140:VAL:HG12	6:W1:146:ALA:HA	2.01	0.42
7:i1:112:GLY:O	7:i1:116:THR:OG1	2.32	0.42
6:j1:157:ASP:OD2	7:m1:46:SER:HB3	2.16	0.42
6:M2:157:ASP:HA	6:M2:160:ILE:HB	2.02	0.42
7:P2:125:ASN:OD1	7:P2:126:SER:N	2.52	0.42
29:Q2:201:PEB:CMB	29:Q2:201:PEB:HNA	2.33	0.42
6:U2:43:LYS:HD3	6:U2:43:LYS:HA	1.77	0.42
7:V2:107:ASP:OD1	7:V2:108:ARG:N	2.52	0.42
6:E3:76:GLN:NE2	6:E3:80:ASN:OD1	2.50	0.42
6:G3:88:HIS:CD2	6:G3:91:ARG:HH21	2.38	0.42
10:d4:157:GLN:OE1	10:d4:157:GLN:HA	2.19	0.42
7:C4:71:GLY:O	7:C4:73:CYS:N	2.46	0.42
7:C4:85:ASP:HB2	29:C4:201:PEB:HHA1	2.01	0.42
7:C4:129:ARG:NE	7:C4:129:ARG:HA	2.35	0.42
6:D4:81:LYS:NZ	29:D4:201:PEB:CHB	2.83	0.42
6:D4:139:CYS:HB3	6:D4:141:PRO:HD2	2.02	0.42
7:E4:167:SER:O	7:E4:171:ARG:NH1	2.53	0.42
6:F4:91:ARG:NH1	6:F4:95:TYR:OH	2.53	0.42
7:G4:37:ARG:HG2	7:G4:161:LEU:HD11	2.02	0.42
6:H4:91:ARG:NH1	6:H4:95:TYR:OH	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:130:SER:O	6:H4:134:THR:HG23	2.20	0.42
29:I4:203:PEB:HMC2	29:I4:203:PEB:OD	2.20	0.42
7:K4:129:ARG:NE	7:K4:129:ARG:HA	2.35	0.42
6:L4:139:CYS:HB3	6:L4:141:PRO:HD2	2.01	0.42
7:M4:26:ALA:HA	7:M4:29:SER:OG	2.19	0.42
7:M4:93:VAL:HG11	7:M4:169:PHE:CE1	2.54	0.42
7:M4:102:ALA:HB2	7:M4:168:TYR:CD1	2.53	0.42
7:H5:157:ASP:OD2	7:H5:159:THR:OG1	2.32	0.42
7:I5:4:ALA:CB	7:I5:98:LEU:HD23	2.49	0.42
7:I5:13:ASP:CG	7:I5:16:ALA:HB3	2.43	0.42
13:k6:76:LEU:HD23	13:k6:76:LEU:C	2.45	0.42
13:k6:192:VAL:CG1	4:I7:134:GLN:NE2	2.82	0.42
5:N7:35:ASN:HB3	29:N7:1002:PEB:H1D1	2.01	0.42
6:S7:5:ILE:HD13	7:T7:99:ALA:HA	2.01	0.42
7:c7:5:PHE:HD1	7:c7:27:LEU:HD22	1.85	0.42
7:F8:72:MEN:OD1	7:F8:72:MEN:N	2.50	0.42
7:I8:141:PHE:HZ	29:I8:203:PEB:HMA3	1.85	0.42
7:K8:116:THR:OG1	27:3P:269:LYS:O	2.38	0.42
1:X9:106:GLN:CB	1:X9:124:LEU:HD11	2.50	0.42
1:X9:229:ALA:HB2	29:V9:201:PEB:HAC1	2.02	0.42
3:B9:197:PHE:CE2	21:sP:140:LEU:HD13	2.47	0.42
29:N9:1002:PEB:HAB2	29:N9:1002:PEB:HHB1	1.91	0.42
7:a9:150:LYS:HG3	8:eR:284:ASN:ND2	2.34	0.42
7:BA:115:GLU:HA	7:BA:118:ILE:HG12	2.00	0.42
7:HA:125:ASN:OD1	7:HA:125:ASN:N	2.53	0.42
29:HA:203:PEB:HBA2	29:HA:203:PEB:H2A1	1.91	0.42
6:KA:134:THR:HA	6:KA:137:ARG:HB3	2.02	0.42
7:XB:7:ARG:HA	7:XB:7:ARG:HD3	1.90	0.42
6:fB:144:MET:HE2	6:fB:144:MET:HB3	1.96	0.42
7:kB:85:ASP:CG	29:kB:201:PEB:HNC	2.27	0.42
6:EC:33:ARG:NH2	6:GC:28:GLN:CD	2.78	0.42
7:HC:129:ARG:NH1	7:HC:132:SER:OG	2.53	0.42
6:KC:44:LEU:O	6:KC:48:HIS:N	2.53	0.42
18:MC:261:VAL:HG13	6:SF:68:ASN:CG	2.45	0.42
6:BD:91:ARG:NH1	6:BD:95:TYR:OH	2.53	0.42
7:CD:93:VAL:HG11	7:CD:169:PHE:CE1	2.54	0.42
6:DD:130:SER:O	6:DD:134:THR:HG23	2.20	0.42
7:ED:36:LYS:NZ	29:ED:201:PEB:C2B	2.82	0.42
7:ED:75:THR:H	7:ED:78:ARG:HH21	1.68	0.42
7:ED:83:LEU:HD23	7:ED:83:LEU:HA	1.76	0.42
7:ED:129:ARG:NE	7:ED:129:ARG:HA	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FD:44:LEU:HD12	6:FD:44:LEU:HA	1.80	0.42
7:GD:133:ILE:O	7:GD:137:GLN:HG2	2.20	0.42
6:HD:53:LYS:HA	6:HD:53:LYS:CE	2.49	0.42
6:HD:89:TYR:O	6:HD:93:VAL:HG22	2.20	0.42
7:ID:129:ARG:HH21	7:ID:133:ILE:N	2.18	0.42
6:JD:1:MET:HB3	6:JD:2:LYS:H	1.68	0.42
6:JD:139:CYS:HB3	6:JD:141:PRO:HD2	2.01	0.42
7:KD:30:PHE:CE1	7:KD:37:ARG:NH1	2.88	0.42
29:CE:201:PEB:HHC2	7:HE:76:ASN:OD1	2.19	0.42
6:EE:44:LEU:O	6:EE:48:HIS:N	2.53	0.42
7:FE:148:GLU:OE1	29:FE:203:PEB:NA	2.53	0.42
18:ME:274:VAL:HB	18:ME:290:ILE:HB	2.01	0.42
18:ME:304:TRP:CE3	18:ME:304:TRP:CA	3.02	0.42
1:XF:174:TYR:HA	1:XF:177:PHE:HB3	2.01	0.42
1:XF:302:THR:HG23	1:XF:356:THR:HG23	2.02	0.42
4:CF:159:ASN:HD21	5:NF:46:SER:HA	1.84	0.42
4:EF:33:ARG:HD2	4:EF:33:ARG:HA	1.73	0.42
4:EF:123:ASP:OD1	4:EF:123:ASP:O	2.37	0.42
5:NF:59:LEU:HD22	5:NF:130:ALA:HB2	2.02	0.42
7:TF:148:GLU:OE1	7:TF:148:GLU:N	2.52	0.42
7:cF:131:VAL:HA	7:cF:134:MET:HB2	2.02	0.42
7:mF:24:LEU:HD23	7:mF:24:LEU:HA	1.89	0.42
6:AG:135:ARG:HE	6:AG:156:LEU:HD13	1.85	0.42
6:CG:25:GLU:HG3	29:DG:202:PEB:HBD2	2.01	0.42
6:CG:90:MET:H	6:CG:90:MET:HG3	1.53	0.42
6:CG:114:ARG:HA	6:CG:114:ARG:HD3	1.70	0.42
7:DG:51:MET:HE2	7:DG:141:PHE:CD2	2.54	0.42
6:EG:2:LYS:NZ	14:MG:193:HIS:HB3	2.34	0.42
6:EG:37:ARG:HH22	6:EG:98:VAL:C	2.28	0.42
14:MG:132:LYS:HA	14:MG:132:LYS:HD3	1.82	0.42
5:JI:59:LEU:HD22	5:JI:130:ALA:HB2	2.02	0.42
5:JI:143:ASN:OD1	27:aP:63:ARG:NH2	2.53	0.42
5:NI:59:LEU:HD22	5:NI:130:ALA:HB2	2.02	0.42
6:jI:103:GLY:O	6:jI:107:GLU:HB2	2.20	0.42
6:CJ:43:LYS:HA	6:CJ:43:LYS:HD2	1.67	0.42
7:JJ:40:ALA:HB2	7:JJ:161:LEU:HD13	2.01	0.42
7:LJ:131:VAL:CG1	7:LJ:169:PHE:HD1	2.32	0.42
6:QJ:47:ASN:ND2	29:QJ:202:PEB:HMC1	2.33	0.42
7:RJ:131:VAL:CG1	7:RJ:169:PHE:HD1	2.32	0.42
6:SJ:106:ASP:HA	6:SJ:110:ILE:HB	2.00	0.42
7:VJ:35:ASN:OD1	29:WJ:201:PEB:ND	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:VJ:40:ALA:HB2	7:VJ:161:LEU:HD13	2.01	0.42
6:WJ:65:TYR:CA	6:WJ:68:ASN:HD21	2.30	0.42
6:aJ:53:LYS:HA	6:aJ:53:LYS:HD3	1.90	0.42
6:gJ:139:CYS:HB3	29:gJ:202:PEB:H3A1	1.72	0.42
7:pJ:1:MET:HE3	7:pJ:1:MET:HB2	1.80	0.42
7:pJ:92:TYR:HB3	7:pJ:105:LEU:HD12	2.01	0.42
7:vJ:78:ARG:HD3	29:vJ:201:PEB:HMB3	2.02	0.42
17:yJ:156:LEU:HD21	17:yJ:269:LEU:HD21	2.02	0.42
1:XK:123:LEU:HD23	1:XK:201:ASP:HB3	2.02	0.42
4:GK:30:ARG:HA	4:IK:25:GLN:OE1	2.20	0.42
4:GK:63:PHE:O	4:GK:66:THR:HG23	2.20	0.42
5:JK:145:THR:O	5:JK:148:THR:CG2	2.67	0.42
7:YK:112:GLY:O	7:YK:116:THR:OG1	2.31	0.42
7:YK:129:ARG:HD2	7:YK:129:ARG:HA	1.87	0.42
29:gK:201:PEB:HAB1	29:gK:201:PEB:HHB1	1.91	0.42
6:hK:157:ASP:HA	6:hK:160:ILE:HB	2.02	0.42
7:HL:124:THR:O	7:HL:128:ILE:CG1	2.68	0.42
6:KL:74:GLU:N	6:KL:78:LYS:HG3	2.35	0.42
6:ML:53:LYS:HA	6:ML:53:LYS:HD3	1.90	0.42
7:NL:92:TYR:HB3	7:NL:105:LEU:HD12	2.01	0.42
6:QL:99:VAL:O	6:QL:99:VAL:HG12	2.18	0.42
6:WL:72:ALA:O	6:WL:78:LYS:CD	2.68	0.42
7:fL:37:ARG:O	7:fL:41:VAL:HG23	2.20	0.42
6:kL:53:LYS:HA	6:kL:53:LYS:HD3	1.90	0.42
6:oL:33:ARG:NH2	7:rL:38:LEU:HD13	2.19	0.42
7:tL:78:ARG:HD3	29:tL:201:PEB:HMB3	2.02	0.42
16:wL:36:GLN:OE1	17:yL:189:ARG:HA	2.20	0.42
16:xL:125:ARG:O	16:xL:129:ILE:HG12	2.20	0.42
15:bM:319:VAL:CG2	20:mP:79:ALA:C	2.93	0.42
6:CM:135:ARG:HD2	6:CM:157:ASP:OD2	2.20	0.42
6:IM:91:ARG:HA	7:JM:18:TYR:CE2	2.55	0.42
6:OM:50:ALA:HB1	29:OM:202:PEB:HBC1	2.00	0.42
7:ZM:84:ARG:NH2	29:ZM:201:PEB:NC	2.68	0.42
6:fM:135:ARG:HD2	6:fM:157:ASP:OD2	2.20	0.42
6:CN:3:SER:N	6:CN:6:THR:OG1	2.51	0.42
7:LN:43:SER:OG	7:LN:141:PHE:O	2.33	0.42
6:IO:140:VAL:HG12	6:IO:146:ALA:N	2.34	0.42
21:FP:96:MET:HG2	21:FP:148:GLU:HG3	2.02	0.42
21:IP:105:ASP:OD2	21:IP:155:TYR:OH	2.34	0.42
20:KP:77:MET:HA	20:KP:77:MET:HE2	2.02	0.42
21:OP:10:ASN:OD1	28:bP:51:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:TP:77:MET:HE2	20:TP:77:MET:HA	2.02	0.42
25:YP:19:THR:HG22	25:YP:21:SER:H	1.85	0.42
25:YP:661:ILE:O	25:YP:661:ILE:HG13	2.20	0.42
20:cP:97:ILE:HD12	21:hP:19:LEU:HD13	2.02	0.42
21:nP:84:ASP:OD2	21:nP:116:TYR:OH	2.37	0.42
21:wP:60:LEU:CD1	21:wP:72:MET:HE1	2.49	0.42
24:zP:107:ARG:HH11	24:zP:111:MET:CE	2.33	0.42
6:AQ:2:LYS:O	6:AQ:3:SER:C	2.62	0.42
6:AQ:135:ARG:HE	6:AQ:156:LEU:HD13	1.85	0.42
6:CQ:4:VAL:O	6:CQ:7:THR:OG1	2.30	0.42
6:CQ:25:GLU:HG3	29:DQ:202:PEB:HBD2	2.01	0.42
6:CQ:37:ARG:HH22	6:CQ:98:VAL:C	2.28	0.42
6:KQ:37:ARG:HH22	6:KQ:98:VAL:C	2.28	0.42
6:KQ:118:ARG:HH21	14:MQ:151:LYS:NZ	2.17	0.42
7:LQ:113:LEU:HB2	14:MQ:236:TYR:CE1	2.51	0.42
8:eR:85:PRO:HG3	7:NR:107:ASP:O	2.17	0.42
8:eR:170:ARG:HE	8:eR:170:ARG:HB3	1.73	0.42
6:MR:118:ARG:CD	6:WR:114:ARG:NH2	2.77	0.42
6:QR:143:ASP:C	6:QR:144:MET:SD	3.03	0.42
6:UR:44:LEU:HD12	6:UR:44:LEU:HA	1.81	0.42
7:VR:149:ARG:HD2	7:VR:149:ARG:HA	1.88	0.42
7:VR:154:ALA:HB3	29:VR:202:PEB:C4B	2.49	0.42
2:A1:132:ALA:HB1	29:g1:201:PEB:CGC	2.49	0.42
3:B1:43:VAL:HG11	3:B1:74:ARG:HG2	2.01	0.42
4:E1:94:MET:HG3	4:E1:111:LEU:HB2	2.01	0.42
7:R1:115:GLU:HA	7:R1:118:ILE:HG12	2.00	0.42
6:Z1:139:CYS:HB3	29:Z1:203:PEB:H3A1	1.88	0.42
6:d1:98:VAL:HG21	7:e1:19:VAL:HB	2.02	0.42
6:M2:118:ARG:HD2	6:W2:114:ARG:NH1	2.34	0.42
7:P2:3:ASP:H	7:P2:6:SER:HG	1.62	0.42
6:Q2:18:PHE:CE2	7:R2:48:ALA:HB1	2.55	0.42
6:Q2:67:LYS:CD	6:Q2:67:LYS:N	2.83	0.42
6:S2:27:ILE:HD13	7:T2:98:LEU:HD11	2.02	0.42
6:S2:72:ALA:HB3	29:S2:201:PEB:OA	2.20	0.42
7:T2:39:ASP:OD1	29:T2:202:PEB:HHC1	2.20	0.42
6:A3:42:GLU:OE2	7:B3:24:LEU:HB2	2.19	0.42
6:A3:88:HIS:CD2	6:A3:91:ARG:HH21	2.38	0.42
6:A3:105:LEU:HD12	6:A3:105:LEU:HA	1.89	0.42
6:E3:102:THR:O	6:E3:102:THR:OG1	2.29	0.42
7:N3:82:CYS:HA	29:N3:201:PEB:HHA1	2.01	0.42
10:d4:76:LEU:C	10:d4:76:LEU:HD12	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d4:96:PHE:O	10:d4:100:GLU:HG2	2.19	0.42
6:B4:130:SER:O	6:B4:134:THR:HG23	2.20	0.42
7:C4:135:LYS:CE	7:C4:169:PHE:HB2	2.50	0.42
6:D4:2:LYS:HE2	6:D4:7:THR:CG2	2.49	0.42
6:D4:91:ARG:NH1	6:D4:95:TYR:OH	2.53	0.42
7:E4:133:ILE:O	7:E4:137:GLN:HG2	2.20	0.42
6:F4:81:LYS:NZ	29:F4:201:PEB:CHB	2.83	0.42
6:J4:81:LYS:NZ	29:J4:201:PEB:CHB	2.83	0.42
29:K4:202:PEB:HMD1	6:L4:150:VAL:HG11	2.02	0.42
6:L4:81:LYS:NZ	29:L4:201:PEB:CHB	2.83	0.42
6:L4:130:SER:O	6:L4:134:THR:HG23	2.20	0.42
7:I5:15:LYS:HD3	7:I5:15:LYS:HA	1.84	0.42
7:K5:141:PHE:HZ	29:K5:203:PEB:HMA3	1.85	0.42
7:L5:157:ASP:OD2	7:L5:159:THR:OG1	2.32	0.42
7:A5:108:ARG:HD3	7:A5:108:ARG:HA	1.72	0.42
7:C5:16:ALA:HA	11:D5:265:LEU:O	2.20	0.42
12:E5:40:VAL:HG11	7:a9:27:LEU:HD23	2.01	0.42
1:X7:229:ALA:HB2	29:V7:201:PEB:HAC1	2.02	0.42
4:C7:6:THR:HG22	5:D7:1:MET:HG2	2.02	0.42
5:J7:110:LEU:O	26:2P:48:LEU:HD11	2.20	0.42
7:R7:5:PHE:HD1	7:R7:27:LEU:HD22	1.85	0.42
6:S7:26:SER:HB3	6:U7:26:SER:HB3	2.02	0.42
29:W7:201:PEB:HAB2	29:W7:201:PEB:HHB1	1.93	0.42
7:c7:120:LEU:HB2	7:c7:122:VAL:HG23	2.02	0.42
6:d7:126:ALA:HB3	29:d7:201:PEB:HMA1	2.01	0.42
6:h7:6:THR:HB	7:i7:1:MET:HE3	2.01	0.42
7:i7:6:SER:O	7:i7:10:VAL:HG23	2.20	0.42
7:B8:59:MET:HE2	7:B8:59:MET:HB3	1.84	0.42
7:B8:72:MEN:N	7:B8:72:MEN:OD1	2.50	0.42
7:I8:13:ASP:CB	7:I8:16:ALA:HB3	2.49	0.42
7:I8:72:MEN:O	7:I8:78:ARG:CG	2.66	0.42
7:L8:35:ASN:HB3	29:L8:202:PEB:C1C	2.49	0.42
1:X9:163:ARG:NH1	29:R9:201:PEB:O1C	2.53	0.42
3:B9:172:LYS:CD	3:B9:173:GLY:H	2.31	0.42
4:C9:4:PRO:HG3	4:M9:22:THR:HG23	2.02	0.42
4:G9:122:PHE:C	4:G9:123:ASP:OD1	2.52	0.42
7:V9:6:SER:O	7:V9:10:VAL:HG23	2.20	0.42
7:Y9:5:PHE:HD1	7:Y9:27:LEU:HD22	1.85	0.42
7:c9:8:VAL:HG21	7:c9:27:LEU:HD21	2.02	0.42
7:i9:5:PHE:HD1	7:i9:27:LEU:HD22	1.85	0.42
6:AA:5:ILE:HD11	6:AA:27:ILE:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AA:43:LYS:HZ3	6:AA:143:ASP:HB3	1.85	0.42
7:BA:59:MET:HG3	7:BA:130:ALA:HB2	2.02	0.42
14:MA:267:MET:HA	14:MA:270:ASN:HB3	2.01	0.42
7:DB:19:VAL:HG13	7:DB:23:ASP:HB2	2.02	0.42
7:HB:50:CYS:HB3	29:HB:203:PEB:H3A1	1.99	0.42
6:SB:3:SER:HB3	6:SB:99:VAL:CG1	2.50	0.42
6:aB:135:ARG:HD2	6:aB:157:ASP:OD2	2.20	0.42
6:dB:50:ALA:HB1	29:dB:202:PEB:HBC1	2.00	0.42
7:eB:19:VAL:HG13	7:eB:23:ASP:HB2	2.02	0.42
6:jB:144:MET:HE2	6:jB:144:MET:HB3	1.96	0.42
7:BC:30:PHE:HE1	7:BC:100:GLY:HA3	1.85	0.42
7:BC:148:GLU:OE1	29:BC:203:PEB:NA	2.53	0.42
7:JC:30:PHE:HE1	7:JC:100:GLY:HA3	1.85	0.42
10:dD:96:PHE:O	10:dD:100:GLU:HG2	2.19	0.42
10:dD:103:PHE:HA	10:dD:108:LEU:HB3	2.02	0.42
6:BD:9:VAL:CG1	7:CD:95:TYR:HD1	2.28	0.42
7:CD:58:GLY:O	29:CD:203:PEB:CBD	2.68	0.42
6:DD:87:ASP:HA	6:DD:90:MET:HG2	2.00	0.42
7:ED:164:GLU:O	7:ED:167:SER:OG	2.27	0.42
6:FD:113:ALA:O	6:FD:114:ARG:C	2.62	0.42
6:HD:44:LEU:HA	6:HD:44:LEU:HD12	1.80	0.42
7:ID:97:LEU:HD21	7:ID:165:VAL:HA	2.00	0.42
7:ID:133:ILE:O	7:ID:137:GLN:HG2	2.20	0.42
7:ID:142:ILE:H	7:ID:142:ILE:HG12	1.60	0.42
6:JD:81:LYS:NZ	29:JD:201:PEB:CHB	2.83	0.42
7:KD:33:ASP:HA	7:KD:36:LYS:HG2	2.02	0.42
6:LD:49:GLU:O	6:LD:52:VAL:HG22	2.20	0.42
6:LD:85:ASP:O	6:LD:88:HIS:HB2	2.19	0.42
7:MD:7:ARG:HE	7:MD:7:ARG:CA	2.26	0.42
7:MD:36:LYS:NZ	29:MD:202:PEB:C2B	2.83	0.42
7:MD:85:ASP:HB2	29:MD:201:PEB:HHA1	2.01	0.42
7:MD:114:LYS:HE3	7:MD:114:LYS:HB2	1.92	0.42
6:AE:44:LEU:O	6:AE:48:HIS:N	2.53	0.42
6:CE:119:THR:HG21	7:HE:83:LEU:HD11	2.02	0.42
29:LE:201:PEB:NB	29:LE:201:PEB:NC	2.65	0.42
18:ME:38:THR:HG23	18:ME:39:ALA:H	1.84	0.42
18:ME:61:VAL:CG1	18:ME:98:LEU:O	2.68	0.42
18:ME:150:SER:C	18:ME:152:HIS:N	2.76	0.42
5:JF:59:LEU:HD22	5:JF:130:ALA:HB2	2.02	0.42
5:LF:68:GLN:CD	27:3P:110:SER:OG	2.63	0.42
5:LF:72:MEN:HE21	27:3P:114:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TF:82:CYS:HA	29:TF:201:PEB:CHA	2.50	0.42
6:UF:103:GLY:O	6:UF:107:GLU:HB2	2.20	0.42
6:bF:137:ARG:HE	6:bF:137:ARG:HB2	1.73	0.42
7:DG:133:ILE:O	7:DG:137:GLN:HG2	2.20	0.42
7:FG:133:ILE:HG23	29:FG:203:PEB:HBC2	2.02	0.42
7:FG:133:ILE:O	7:FG:137:GLN:HG2	2.20	0.42
7:LG:50:CYS:SG	29:LG:203:PEB:C2A	3.08	0.42
7:LG:141:PHE:HE2	29:LG:203:PEB:CHA	2.33	0.42
4:EI:25:GLN:O	4:KI:29:GLY:HA3	2.20	0.42
4:II:8:ALA:HB1	4:II:23:GLU:HB3	2.01	0.42
6:QI:103:GLY:O	6:QI:107:GLU:HB2	2.20	0.42
6:hI:103:GLY:O	6:hI:107:GLU:HB2	2.20	0.42
6:AJ:43:LYS:HD2	6:AJ:43:LYS:HA	1.67	0.42
6:CJ:139:CYS:HB3	29:CJ:202:PEB:H3A1	1.72	0.42
6:IJ:138:LEU:HD22	6:IJ:152:PHE:CE2	2.54	0.42
6:KJ:53:LYS:HA	6:KJ:53:LYS:HD3	1.90	0.42
6:KJ:74:GLU:N	6:KJ:78:LYS:HG3	2.35	0.42
6:QJ:75:ASN:H	6:QJ:78:LYS:HD2	1.85	0.42
7:TJ:37:ARG:O	7:TJ:41:VAL:HG23	2.20	0.42
7:ZJ:37:ARG:O	7:ZJ:41:VAL:HG23	2.20	0.42
7:dJ:37:ARG:O	7:dJ:41:VAL:HG23	2.20	0.42
29:kJ:201:PEB:CGC	7:tJ:67:ILE:HG21	2.50	0.42
6:qJ:9:VAL:HG11	7:rJ:1:MET:HE1	2.01	0.42
19:zJ:332:LEU:HD23	20:pP:64:ASP:CA	2.34	0.42
19:zJ:366:ARG:HD3	21:nP:61:LEU:HB3	2.01	0.42
1:XK:219:ALA:HA	1:XK:257:PRO:HB3	2.01	0.42
2:AK:132:ALA:HB1	29:gK:201:PEB:CGC	2.49	0.42
5:DK:40:ILE:HD13	5:DK:156:LEU:HB3	2.02	0.42
4:GK:65:TYR:HE2	4:MK:65:TYR:CE2	2.37	0.42
6:SK:140:VAL:HG12	6:SK:146:ALA:HA	2.01	0.42
6:WK:157:ASP:HA	6:WK:160:ILE:HB	2.02	0.42
7:eK:1:MET:HE3	7:eK:104:VAL:HB	2.01	0.42
7:BL:40:ALA:HB2	7:BL:161:LEU:HD13	2.01	0.42
7:BL:118:ILE:O	7:TL:118:ILE:CD1	2.68	0.42
7:DL:131:VAL:CG1	7:DL:169:PHE:HD1	2.32	0.42
6:ML:33:ARG:NH2	29:PL:202:PEB:HAD1	2.35	0.42
6:ML:43:LYS:HB2	6:ML:144:MET:CE	2.50	0.42
6:SL:51:VAL:C	6:SL:53:LYS:N	2.78	0.42
7:TL:92:TYR:HB3	7:TL:105:LEU:HD12	2.01	0.42
7:XL:92:TYR:HB3	7:XL:105:LEU:HD12	2.01	0.42
6:cL:72:ALA:O	29:cL:201:PEB:C1A	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dL:40:ALA:HB2	7:dL:161:LEU:HD13	2.01	0.42
7:dL:158:CYS:HB3	29:dL:202:PEB:HBA1	1.88	0.42
29:gL:201:PEB:HAC2	29:gL:201:PEB:HBB1	1.92	0.42
6:iL:85:ASP:OD2	6:iL:127:TYR:OH	2.30	0.42
7:jL:92:TYR:HB3	7:jL:105:LEU:HD12	2.01	0.42
7:IL:40:ALA:HB2	7:IL:161:LEU:HD13	2.01	0.42
7:IL:158:CYS:HB3	29:IL:202:PEB:HBA1	1.88	0.42
7:pL:78:ARG:HD3	29:pL:201:PEB:HMB3	2.02	0.42
17:yL:111:CYS:CA	30:yL:303:PUB:HBA1	2.44	0.42
7:JM:19:VAL:HG13	7:JM:23:ASP:HB2	2.02	0.42
7:LM:19:VAL:HG13	7:LM:23:ASP:HB2	2.02	0.42
7:LM:50:CYS:HB3	29:LM:203:PEB:H3A1	1.99	0.42
6:QM:3:SER:HB3	6:QM:99:VAL:CG1	2.50	0.42
7:RM:19:VAL:HG13	7:RM:23:ASP:HB2	2.02	0.42
6:hM:50:ALA:HB1	29:hM:202:PEB:HBC1	2.00	0.42
6:hM:135:ARG:NH1	6:hM:157:ASP:OD1	2.39	0.42
6:IM:54:GLU:OE1	29:IM:202:PEB:HMC2	1.95	0.42
7:JN:91:ARG:O	7:JN:94:SER:OG	2.36	0.42
7:LN:146:ALA:HB3	7:LN:150:LYS:HZ1	1.85	0.42
7:BO:120:LEU:HD11	29:BO:201:PEB:CBB	2.37	0.42
6:IO:88:HIS:CD2	6:IO:91:ARG:HH21	2.38	0.42
9:OO:53:GLN:O	9:OO:196:HIS:NE2	2.53	0.42
21:DP:122:PRO:HB2	21:IP:64:ASP:OD2	2.19	0.42
21:MP:96:MET:HG2	21:MP:148:GLU:HG3	2.02	0.42
21:OP:62:TYR:HE1	22:VP:80:LEU:HD13	1.79	0.42
24:XP:63:GLU:O	24:XP:63:GLU:HG3	2.19	0.42
20:iP:97:ILE:HD12	23:yP:19:LEU:HD12	2.00	0.42
21:jP:18:TYR:CE2	25:1P:157:ARG:CA	3.03	0.42
20:mP:89:LEU:HB2	20:mP:133:MET:CE	2.48	0.42
20:rP:17:TYR:HB3	21:wP:45:ALA:HB2	2.02	0.42
21:uP:38:VAL:CG1	20:vP:23:LEU:HB3	2.49	0.42
23:yP:63:GLN:CB	23:yP:66:LEU:HD13	2.44	0.42
23:yP:152:ILE:O	23:yP:156:ILE:HG13	2.18	0.42
24:zP:74:VAL:HG23	24:zP:116:LEU:HD11	2.00	0.42
25:1P:357:PHE:CD2	25:1P:427:ILE:HD13	2.55	0.42
6:AQ:37:ARG:HH22	6:AQ:98:VAL:C	2.28	0.42
6:CQ:48:HIS:HB3	7:DQ:18:TYR:CE1	2.55	0.42
6:EQ:72:ALA:O	6:EQ:78:LYS:NZ	2.40	0.42
7:FQ:55:ALA:HB2	7:FQ:134:MET:HE3	2.01	0.42
7:FQ:141:PHE:CZ	29:FQ:203:PEB:C3A	3.03	0.42
29:FQ:202:PEB:OD	6:GQ:33:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HQ:139:VAL:HA	7:HQ:142:ILE:HG12	2.00	0.42
6:KQ:135:ARG:HE	6:KQ:156:LEU:HD13	1.85	0.42
7:LQ:133:ILE:O	7:LQ:137:GLN:HG2	2.20	0.42
8:eR:64:LEU:HD12	7:TR:77:ARG:NH1	2.34	0.42
6:MR:103:GLY:O	6:MR:107:GLU:HG2	2.20	0.42
7:NR:72:MEN:O	7:NR:78:ARG:CD	2.68	0.42
7:NR:114:LYS:O	7:NR:118:ILE:HG13	2.20	0.42
7:NR:125:ASN:OD1	7:NR:126:SER:N	2.52	0.42
7:PR:39:ASP:OD1	29:PR:201:PEB:HHC1	2.20	0.42
7:TR:67:ILE:O	7:TR:74:TYR:CD1	2.72	0.42
7:VR:107:ASP:OD1	7:VR:108:ARG:N	2.52	0.42
2:A1:41:SER:HB2	29:V1:201:PEB:HBD1	2.01	0.41
3:B1:13:GLN:CD	3:B1:15:GLN:HE22	2.27	0.41
4:C1:1:MET:HE2	4:C1:1:MET:HB2	1.90	0.41
5:F1:40:ILE:HG13	29:F1:1002:PEB:CBA	2.43	0.41
5:J1:8:VAL:O	5:J1:19:LEU:HD21	2.20	0.41
5:N1:25:ASP:OD1	5:N1:25:ASP:N	2.53	0.41
6:U1:49:GLU:OE1	6:U1:49:GLU:N	2.45	0.41
7:Y1:97:LEU:CD1	7:Y1:165:VAL:HG23	2.40	0.41
6:Z1:53:LYS:HE3	6:Z1:53:LYS:HB3	1.81	0.41
6:d1:52:VAL:CG1	6:d1:86:VAL:HG12	2.33	0.41
8:e2:299:VAL:O	5:F7:17:GLU:HB2	2.19	0.41
6:M2:113:ALA:HB1	6:M2:117:TYR:CE2	2.54	0.41
6:M2:138:LEU:HD12	29:M2:202:PEB:HMD1	2.02	0.41
7:N2:39:ASP:OD1	29:N2:202:PEB:HHC1	2.20	0.41
6:O2:69:PRO:CD	13:k6:232:PHE:CD2	3.04	0.41
6:O2:113:ALA:HB1	6:O2:117:TYR:CE2	2.54	0.41
7:P2:39:ASP:OD1	29:P2:201:PEB:HHC1	2.20	0.41
7:P2:67:ILE:O	7:P2:67:ILE:HG22	2.20	0.41
7:P2:114:LYS:O	7:P2:118:ILE:HG13	2.20	0.41
6:S2:37:ARG:HB3	6:S2:151:GLU:CD	2.38	0.41
7:B3:76:ASN:ND2	6:E3:109:GLY:O	2.51	0.41
6:I3:88:HIS:CD2	6:I3:91:ARG:HH21	2.38	0.41
10:d4:298:TYR:O	10:d4:299:LEU:HD23	2.20	0.41
6:B4:139:CYS:HB3	6:B4:141:PRO:HD2	2.02	0.41
7:C4:79:MET:HB3	6:F4:116:VAL:CG1	2.46	0.41
7:C4:167:SER:O	7:C4:171:ARG:NH1	2.53	0.41
6:D4:1:MET:HB3	6:D4:2:LYS:H	1.68	0.41
7:E4:93:VAL:HG11	7:E4:169:PHE:CE1	2.54	0.41
7:E4:129:ARG:HH21	7:E4:133:ILE:N	2.18	0.41
6:F4:25:GLU:CD	6:H4:33:ARG:CG	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H4:81:LYS:NZ	29:H4:201:PEB:CHB	2.83	0.41
7:I4:83:LEU:HD23	7:I4:83:LEU:HA	1.76	0.41
6:J4:60:PHE:CD1	6:J4:67:LYS:NZ	2.88	0.41
6:L4:30:ASN:OD1	6:L4:34:SER:OG	2.38	0.41
7:M4:33:ASP:HA	7:M4:36:LYS:HG2	2.02	0.41
7:L5:115:GLU:HG2	13:k6:284:LEU:HD21	2.01	0.41
7:A5:141:PHE:HZ	29:A5:203:PEB:HMA3	1.85	0.41
12:E5:51:LYS:HE2	12:E5:51:LYS:HB3	1.83	0.41
13:k6:124:ASN:HD21	7:V7:147:THR:CB	2.32	0.41
4:C7:90:TYR:CE1	5:F7:74:TYR:HE1	2.38	0.41
4:C7:117:GLU:O	4:C7:121:SER:OG	2.36	0.41
5:D7:65:GLN:H	5:D7:65:GLN:HG2	1.64	0.41
7:T7:6:SER:O	7:T7:10:VAL:HG23	2.20	0.41
6:f7:126:ALA:HB3	29:f7:201:PEB:HMA1	2.01	0.41
7:k7:5:PHE:HD1	7:k7:27:LEU:HD22	1.85	0.41
7:I8:7:ARG:HA	28:4P:132:PRO:HB3	2.02	0.41
1:X9:233:SER:HB2	1:X9:239:PRO:HG3	2.01	0.41
2:A9:284:ARG:HD2	29:A9:301:PEB:HMA2	2.01	0.41
3:B9:205:ARG:HD3	3:B9:206:PHE:H	1.85	0.41
7:T9:8:VAL:HG21	7:T9:27:LEU:HD21	2.02	0.41
7:Y9:6:SER:O	7:Y9:10:VAL:HG23	2.20	0.41
7:k9:6:SER:O	7:k9:10:VAL:HG23	2.20	0.41
7:k9:83:LEU:O	7:k9:87:GLU:HG3	2.20	0.41
6:AA:34:SER:HA	6:AA:37:ARG:HH22	1.84	0.41
7:DA:83:LEU:CD1	6:KA:116:VAL:HA	2.50	0.41
7:FA:108:ARG:HG2	14:MA:203:GLN:OE1	2.20	0.41
7:FA:125:ASN:OD1	7:FA:125:ASN:N	2.53	0.41
6:KA:42:GLU:CA	7:LA:20:GLY:HA3	2.50	0.41
15:bB:234:GLY:HA3	7:NB:77:ARG:HH22	1.84	0.41
15:bB:274:ARG:HH11	15:bB:372:ILE:CG2	2.24	0.41
30:AB:304:PUB:NB	30:AB:304:PUB:NC	2.68	0.41
6:MB:3:SER:HB3	6:MB:99:VAL:CG1	2.50	0.41
6:OB:54:GLU:HG2	6:OB:133:TYR:CE2	2.31	0.41
7:RB:19:VAL:HG13	7:RB:23:ASP:HB2	2.02	0.41
29:ZB:203:PEB:HBA2	29:ZB:203:PEB:H2A1	1.86	0.41
7:eB:60:ILE:C	7:eB:62:GLU:N	2.78	0.41
7:iB:59:MET:HE2	7:iB:59:MET:HB3	1.89	0.41
7:DC:129:ARG:NH1	7:DC:132:SER:OG	2.53	0.41
6:BD:44:LEU:HD12	6:BD:44:LEU:HA	1.80	0.41
6:BD:139:CYS:HB3	6:BD:141:PRO:HD2	2.01	0.41
7:CD:26:ALA:HA	7:CD:29:SER:OG	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CD:30:PHE:CE1	7:CD:37:ARG:NH1	2.88	0.41
7:CD:117:TYR:HA	7:CD:120:LEU:HB2	2.02	0.41
6:DD:60:PHE:CD1	6:DD:67:LYS:NZ	2.88	0.41
29:ED:201:PEB:HH1	29:ED:201:PEB:HMD3	1.60	0.41
7:GD:167:SER:O	7:GD:171:ARG:NH1	2.53	0.41
6:HD:91:ARG:NH1	6:HD:95:TYR:OH	2.53	0.41
7:ID:104:VAL:HG23	7:ID:108:ARG:CD	2.51	0.41
6:JD:89:TYR:O	6:JD:93:VAL:HG22	2.20	0.41
6:JD:113:ALA:C	6:JD:115:GLU:N	2.78	0.41
6:LD:60:PHE:CD1	6:LD:67:LYS:NZ	2.88	0.41
6:LD:91:ARG:NH1	6:LD:95:TYR:OH	2.53	0.41
7:MD:133:ILE:O	7:MD:137:GLN:HG2	2.20	0.41
7:MD:139:VAL:O	7:MD:143:THR:OG1	2.30	0.41
7:JE:21:GLY:O	7:JE:25:GLN:NE2	2.41	0.41
6:KE:2:LYS:HA	6:KE:2:LYS:HD3	1.84	0.41
6:KE:106:ASP:HA	6:KE:110:ILE:HB	2.01	0.41
18:ME:310:SER:O	7:dL:64:PRO:CG	2.68	0.41
5:LF:18:PHE:CE2	9:OO:267:THR:HG21	2.54	0.41
7:PF:135:LYS:NZ	7:PF:170:ASP:OD1	2.51	0.41
6:SF:103:GLY:O	6:SF:107:GLU:HB2	2.20	0.41
7:gF:148:GLU:OE1	7:gF:148:GLU:N	2.51	0.41
6:hF:103:GLY:O	6:hF:107:GLU:HB2	2.20	0.41
7:iF:3:ASP:OD1	7:iF:3:ASP:N	2.46	0.41
6:lF:103:GLY:O	6:lF:107:GLU:HB2	2.20	0.41
6:AG:37:ARG:HH22	6:AG:98:VAL:C	2.28	0.41
6:AG:67:LYS:HB2	6:AG:67:LYS:HE2	1.88	0.41
14:MG:158:ARG:HG3	30:MG:403:PUB:HAD2	2.01	0.41
5:HI:59:LEU:HD22	5:HI:130:ALA:HB2	2.02	0.41
4:II:24:LEU:HD22	5:JI:38:LEU:HD22	2.02	0.41
5:JI:14:ALA:HB1	27:aP:113:ASP:HB3	2.02	0.41
5:LI:59:LEU:HD22	5:LI:130:ALA:HB2	2.02	0.41
6:OI:6:THR:CG2	7:PI:1:MET:HE3	2.43	0.41
7:PI:3:ASP:OD1	7:PI:6:SER:OG	2.30	0.41
7:aI:3:ASP:OD1	7:aI:6:SER:OG	2.30	0.41
7:BJ:37:ARG:O	7:BJ:41:VAL:HG23	2.20	0.41
7:BJ:129:ARG:HD2	7:BJ:129:ARG:HA	1.82	0.41
29:JJ:203:PEB:HBA2	29:JJ:203:PEB:H2A1	1.91	0.41
7:NJ:92:TYR:HB3	7:NJ:105:LEU:HD12	2.01	0.41
6:QJ:106:ASP:OD1	6:QJ:158:TYR:OH	2.31	0.41
7:VJ:131:VAL:CG1	7:VJ:169:PHE:HD1	2.32	0.41
7:bJ:37:ARG:O	7:bJ:41:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dJ:78:ARG:HD3	29:dJ:201:PEB:HMB3	2.02	0.41
7:dJ:112:GLY:O	7:dJ:116:THR:OG1	2.32	0.41
7:nJ:158:CYS:HB3	29:nJ:202:PEB:HBA1	1.88	0.41
7:rJ:129:ARG:HA	7:rJ:129:ARG:HD2	1.82	0.41
7:tJ:37:ARG:O	7:tJ:41:VAL:HG23	2.20	0.41
7:tJ:40:ALA:HB2	7:tJ:161:LEU:HD13	2.01	0.41
16:wJ:47:ARG:NE	16:wJ:48:MET:H	2.18	0.41
2:AK:103:CYS:CB	30:AK:305:PUB:HAA1	2.47	0.41
3:BK:226:GLN:HA	3:BK:226:GLN:NE2	2.35	0.41
4:GK:65:TYR:CD2	4:MK:65:TYR:CD1	3.08	0.41
6:OK:140:VAL:HG12	6:OK:146:ALA:HA	2.01	0.41
7:kK:1:MET:HE3	7:kK:104:VAL:HB	2.01	0.41
7:FL:37:ARG:O	7:FL:41:VAL:HG23	2.20	0.41
7:PL:92:TYR:HB3	7:PL:105:LEU:HD12	2.01	0.41
6:QL:75:ASN:H	6:QL:78:LYS:HD2	1.85	0.41
7:TL:75:THR:OG1	7:TL:76:ASN:N	2.52	0.41
7:VL:37:ARG:O	7:VL:41:VAL:HG23	2.20	0.41
7:VL:131:VAL:CG1	7:VL:169:PHE:HD1	2.32	0.41
7:ZL:37:ARG:O	7:ZL:41:VAL:HG23	2.20	0.41
29:iL:202:PEB:HBA3	29:iL:202:PEB:H2A1	1.91	0.41
7:jL:37:ARG:O	7:jL:41:VAL:HG23	2.20	0.41
7:nL:40:ALA:HB2	7:nL:161:LEU:HD13	2.01	0.41
7:rL:37:ARG:O	7:rL:41:VAL:HG23	2.20	0.41
7:vL:129:ARG:HD2	7:vL:129:ARG:HA	1.82	0.41
16:wL:44:PHE:O	16:wL:45:SER:CB	2.60	0.41
15:bM:319:VAL:HG21	20:mP:79:ALA:CB	2.50	0.41
17:BM:209:ASN:ND2	17:BM:289:ALA:O	2.53	0.41
6:OM:54:GLU:HG2	6:OM:133:TYR:CE2	2.31	0.41
6:SM:144:MET:HE2	6:SM:144:MET:HB3	1.96	0.41
7:TM:19:VAL:CG1	7:TM:24:LEU:CD2	2.93	0.41
6:AN:5:ILE:HD11	6:AN:27:ILE:CB	2.49	0.41
7:BN:110:LEU:HA	7:BN:113:LEU:HD23	2.02	0.41
7:DN:31:ILE:HD13	7:DN:31:ILE:HA	1.88	0.41
7:DN:125:ASN:OD1	7:DN:125:ASN:N	2.53	0.41
6:EN:134:THR:HA	6:EN:137:ARG:HB3	2.02	0.41
7:FN:115:GLU:CD	14:MN:111:ARG:HG2	2.42	0.41
6:GN:134:THR:HA	6:GN:137:ARG:HB3	2.02	0.41
7:JN:59:MET:HG3	7:JN:130:ALA:HB2	2.02	0.41
7:LN:59:MET:HG3	7:LN:130:ALA:HB2	2.02	0.41
6:AO:105:LEU:HD12	6:AO:105:LEU:HA	1.89	0.41
7:BO:142:ILE:CD1	7:BO:165:VAL:HG11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:JO:1:MET:HG2	7:JO:108:ARG:HH21	1.85	0.41
21:DP:96:MET:HG2	21:DP:148:GLU:HG3	2.02	0.41
20:GP:77:MET:HA	20:GP:77:MET:HE2	2.02	0.41
21:LP:112:LEU:HD23	21:LP:160:LEU:HD13	2.01	0.41
21:OP:112:LEU:HD23	21:OP:160:LEU:HD13	2.01	0.41
21:SP:72:MET:O	21:SP:72:MET:HG3	2.19	0.41
22:VP:51:ILE:HG23	22:VP:85:TYR:CB	2.49	0.41
25:YP:490:GLN:HE21	25:YP:497:ARG:HH11	1.68	0.41
20:cP:108:GLY:HA2	21:fP:75:THR:CG2	2.50	0.41
21:dP:112:LEU:HD23	21:dP:160:LEU:HD13	2.01	0.41
21:hP:128:GLN:NE2	23:yP:73:ALA:HA	2.35	0.41
21:jP:96:MET:HE3	21:jP:96:MET:HB3	1.91	0.41
21:oP:105:ASP:OD2	21:oP:155:TYR:OH	2.34	0.41
21:wP:96:MET:HG2	21:wP:148:GLU:HG3	2.02	0.41
23:yP:2:GLN:O	23:yP:106:ASN:ND2	2.50	0.41
25:1P:22:MET:HE3	25:1P:22:MET:HB3	1.95	0.41
25:1P:27:GLN:HB3	25:1P:33:ARG:NH1	2.35	0.41
25:1P:241:SER:OG	25:1P:242:ASN:N	2.53	0.41
25:1P:245:GLN:HG3	25:1P:247:LEU:CD2	2.50	0.41
27:3P:245:GLU:HG2	27:3P:246:GLY:N	2.33	0.41
6:AQ:161:ASN:O	7:DQ:49:SER:HB3	2.20	0.41
7:DQ:97:LEU:HD21	7:DQ:165:VAL:HB	2.02	0.41
6:EQ:135:ARG:HE	6:EQ:156:LEU:HD13	1.85	0.41
6:IQ:78:LYS:HE2	29:IQ:201:PEB:HMB1	2.00	0.41
7:JQ:133:ILE:O	7:JQ:137:GLN:HG2	2.20	0.41
7:LQ:140:ALA:HB3	29:LQ:202:PEB:HMB3	2.02	0.41
6:MR:33:ARG:HG2	6:MR:33:ARG:O	2.19	0.41
6:OR:111:ALA:HB3	7:TR:77:ARG:CG	2.50	0.41
6:QR:44:LEU:HD12	6:QR:44:LEU:HA	1.81	0.41
6:QR:103:GLY:O	6:QR:107:GLU:HG2	2.20	0.41
6:QR:157:ASP:HA	6:QR:160:ILE:HB	2.02	0.41
7:VR:2:LEU:HD22	7:VR:6:SER:HB2	2.01	0.41
7:VR:134:MET:HA	7:VR:137:GLN:CG	2.50	0.41
1:X1:328:LEU:HD13	4:C1:113:ALA:C	2.44	0.41
2:A1:36:GLY:C	6:S1:114:ARG:HH22	2.28	0.41
2:A1:202:MET:SD	2:A1:285:SER:HB2	2.60	0.41
4:C1:42:LYS:HB2	4:C1:42:LYS:HE3	1.41	0.41
5:H1:38:LEU:N	5:H1:38:LEU:CD2	2.77	0.41
5:L1:33:GLU:CB	5:L1:36:GLN:HB2	2.44	0.41
29:S1:202:PEB:HBA3	29:S1:202:PEB:H2A1	1.89	0.41
6:f1:157:ASP:HA	6:f1:160:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:j1:158:TYR:OH	6:l1:17:ARG:NH2	2.51	0.41
6:l1:49:GLU:OE1	6:l1:49:GLU:N	2.45	0.41
6:O2:49:GLU:HG2	13:k6:250:VAL:HG23	2.02	0.41
6:O2:111:ALA:HB3	7:T2:77:ARG:CG	2.50	0.41
6:O2:138:LEU:CB	29:O2:202:PEB:HMD1	2.50	0.41
29:W2:201:PEB:CMB	29:W2:201:PEB:HNA	2.33	0.41
7:B3:60:ILE:HD13	7:B3:60:ILE:HA	1.93	0.41
7:B3:118:ILE:HG22	9:O3:281:GLY:HA3	2.01	0.41
6:E3:106:ASP:CG	6:E3:107:GLU:N	2.73	0.41
7:F3:107:ASP:HA	7:F3:111:ASN:HB2	2.02	0.41
6:G3:24:LEU:C	6:G3:24:LEU:CD1	2.89	0.41
6:K3:76:GLN:NE2	6:K3:80:ASN:OD1	2.50	0.41
6:K3:88:HIS:CD2	6:K3:91:ARG:HH21	2.38	0.41
7:L3:1:MET:HG2	7:L3:108:ARG:HH21	1.85	0.41
7:G4:137:GLN:HG2	7:G4:137:GLN:H	1.51	0.41
29:G4:202:PEB:O1B	29:G4:202:PEB:HAC1	2.21	0.41
6:H4:49:GLU:O	6:H4:52:VAL:HG22	2.20	0.41
7:I4:37:ARG:HG2	7:I4:161:LEU:HD11	2.02	0.41
6:J4:49:GLU:O	6:J4:52:VAL:HG22	2.20	0.41
7:K4:30:PHE:CE1	7:K4:37:ARG:NH1	2.88	0.41
7:K4:135:LYS:CE	7:K4:169:PHE:HB2	2.50	0.41
29:K4:202:PEB:O1B	29:K4:202:PEB:HAC1	2.20	0.41
7:M4:117:TYR:HA	7:M4:120:LEU:HB2	2.02	0.41
7:I5:1:MET:CE	28:bP:130:LEU:HD11	2.49	0.41
7:I5:141:PHE:HZ	29:I5:203:PEB:HMA3	1.85	0.41
13:k6:93:MET:HE1	13:k6:142:SER:CB	2.45	0.41
13:k6:226:ALA:HB2	4:E7:77:SER:CA	2.50	0.41
2:A7:142:ARG:O	2:A7:146:ILE:HG12	2.20	0.41
3:B7:24:PRO:O	4:C7:15:GLN:CG	2.61	0.41
5:H7:135:LYS:O	5:H7:139:VAL:HG23	2.21	0.41
29:Q7:201:PEB:HAB2	29:Q7:201:PEB:HHB1	1.93	0.41
6:S7:54:GLU:CG	6:S7:133:TYR:HE2	2.22	0.41
6:W7:126:ALA:HB3	29:W7:201:PEB:HMA1	2.01	0.41
7:c7:67:ILE:HD12	6:f7:84:ARG:HH12	1.85	0.41
7:c7:83:LEU:O	7:c7:87:GLU:HG3	2.21	0.41
7:e7:6:SER:O	7:e7:10:VAL:HG23	2.20	0.41
7:g7:6:SER:O	7:g7:10:VAL:HG23	2.20	0.41
7:I8:10:VAL:HG21	7:I8:13:ASP:HB3	2.01	0.41
7:L8:76:ASN:HD21	6:OR:75:ASN:HB3	1.85	0.41
2:A9:217:VAL:HG23	6:h9:14:ALA:HA	2.02	0.41
29:H9:1002:PEB:HHB1	29:H9:1002:PEB:HAB2	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J9:135:LYS:O	5:J9:139:VAL:HG23	2.21	0.41
7:R9:147:THR:OG1	7:R9:148:GLU:OE1	2.37	0.41
7:g9:129:ARG:HA	7:g9:129:ARG:HD2	1.92	0.41
7:m9:8:VAL:HG21	7:m9:27:LEU:HD21	2.02	0.41
7:BA:150:LYS:HA	7:BA:150:LYS:HD3	1.89	0.41
7:DA:59:MET:HG3	7:DA:130:ALA:HB2	2.02	0.41
6:EA:91:ARG:HG2	6:EA:95:TYR:CZ	2.55	0.41
7:JA:113:LEU:O	7:JA:116:THR:OG1	2.29	0.41
7:LA:109:CYS:HB2	7:LA:113:LEU:HD11	2.02	0.41
14:MA:200:LYS:HE3	14:MA:200:LYS:HB3	1.91	0.41
17:BB:112:MET:HG2	17:BB:246:ARG:HG3	2.02	0.41
7:DB:24:LEU:HD23	7:DB:24:LEU:HA	1.92	0.41
7:DB:50:CYS:HB3	29:DB:203:PEB:H3A1	1.99	0.41
7:FB:129:ARG:HD2	7:FB:129:ARG:HA	1.90	0.41
7:JB:129:ARG:HD2	7:JB:129:ARG:HA	1.90	0.41
6:KB:43:LYS:HA	6:KB:43:LYS:HD3	1.91	0.41
7:RB:53:SER:OG	6:YB:119:THR:HG22	2.20	0.41
7:RB:110:LEU:HD21	7:RB:172:VAL:HG13	2.00	0.41
6:UB:144:MET:HE2	6:UB:144:MET:HB3	1.96	0.41
7:ZB:129:ARG:HD2	7:ZB:129:ARG:HA	1.90	0.41
6:IB:53:LYS:HE3	6:IB:53:LYS:HB2	1.88	0.41
6:EC:33:ARG:HH22	6:GC:28:GLN:CD	2.28	0.41
6:EC:44:LEU:O	6:EC:48:HIS:N	2.53	0.41
6:KC:81:LYS:NZ	29:KC:202:PEB:O2C	2.41	0.41
18:MC:61:VAL:CG1	18:MC:98:LEU:O	2.68	0.41
10:dD:86:ALA:HA	29:ID:201:PEB:O1C	2.21	0.41
7:CD:5:PHE:HD1	7:CD:27:LEU:HD21	1.84	0.41
7:CD:133:ILE:O	7:CD:137:GLN:HG2	2.20	0.41
6:DD:81:LYS:NZ	6:DD:85:ASP:OD1	2.51	0.41
6:DD:113:ALA:C	6:DD:115:GLU:N	2.78	0.41
7:ED:37:ARG:HG2	7:ED:161:LEU:HD11	2.02	0.41
29:ED:201:PEB:O1B	29:ED:201:PEB:HAC1	2.21	0.41
6:HD:142:ARG:HE	6:HD:142:ARG:HB2	1.46	0.41
7:ID:104:VAL:CG2	7:ID:108:ARG:CZ	2.98	0.41
6:JD:91:ARG:NH1	6:JD:95:TYR:OH	2.53	0.41
7:KD:164:GLU:O	7:KD:167:SER:OG	2.27	0.41
7:BE:30:PHE:HE1	7:BE:100:GLY:HA3	1.85	0.41
6:GE:106:ASP:HA	6:GE:110:ILE:HB	2.01	0.41
7:HE:21:GLY:O	7:HE:25:GLN:NE2	2.41	0.41
7:JE:129:ARG:NH1	7:JE:132:SER:OG	2.53	0.41
18:ME:236:ASP:N	29:SI:202:PEB:HMA2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XF:362:PRO:HG2	7:PF:114:LYS:HZ1	1.85	0.41
3:BF:121:ASN:N	3:BF:121:ASN:OD1	2.53	0.41
7:YF:103:SER:O	7:YF:103:SER:OG	2.36	0.41
6:fF:103:GLY:O	6:fF:107:GLU:HB2	2.20	0.41
6:CG:37:ARG:HH22	6:CG:98:VAL:C	2.28	0.41
7:DG:97:LEU:HD21	7:DG:165:VAL:HB	2.02	0.41
7:HG:58:GLY:HA3	29:HG:203:PEB:CMD	2.41	0.41
7:HG:133:ILE:O	7:HG:137:GLN:HG2	2.20	0.41
6:KG:25:GLU:OE1	6:KG:25:GLU:N	2.52	0.41
7:LG:97:LEU:HD21	7:LG:165:VAL:HB	2.02	0.41
4:EI:8:ALA:HB1	4:EI:23:GLU:HB3	2.01	0.41
6:UI:87:ASP:OD1	7:VI:18:TYR:OH	2.25	0.41
6:bI:3:SER:N	6:bI:6:THR:OG1	2.52	0.41
6:II:103:GLY:O	6:II:107:GLU:HB2	2.20	0.41
6:AJ:17:ARG:NH1	6:CJ:106:ASP:OD2	2.54	0.41
7:FJ:1:MET:HE3	7:FJ:1:MET:HB2	1.80	0.41
7:FJ:37:ARG:O	7:FJ:41:VAL:HG23	2.20	0.41
7:HJ:118:ILE:CD1	19:zJ:398:GLU:HG2	2.50	0.41
7:HJ:123:PRO:CG	29:zJ:501:PEB:HMA2	2.47	0.41
6:SJ:33:ARG:HA	6:SJ:33:ARG:NH2	2.34	0.41
7:bJ:78:ARG:HD3	29:bJ:201:PEB:HMB3	2.02	0.41
7:dJ:40:ALA:HB2	7:dJ:161:LEU:HD13	2.01	0.41
7:dJ:70:GLY:C	7:vJ:125:ASN:HD22	2.29	0.41
7:hJ:78:ARG:HD3	29:hJ:201:PEB:HMB3	2.02	0.41
29:oJ:201:PEB:HAC2	29:oJ:201:PEB:HHB1	1.92	0.41
16:xJ:123:GLU:OE2	16:xJ:270:SER:OG	2.29	0.41
1:XK:182:TYR:N	6:OK:14:ALA:O	2.53	0.41
5:JK:20:SER:CB	5:JK:23:GLN:HE21	2.33	0.41
5:JK:145:THR:CG2	5:JK:150:ILE:HD11	2.42	0.41
7:PK:1:MET:HE3	7:PK:104:VAL:HB	2.01	0.41
6:dK:157:ASP:HA	6:dK:160:ILE:HB	2.02	0.41
6:fK:5:ILE:CG2	7:gK:3:ASP:OD2	2.68	0.41
6:hK:140:VAL:HG12	6:hK:146:ALA:HA	2.01	0.41
6:lK:157:ASP:HA	6:lK:160:ILE:HB	2.02	0.41
7:FL:37:ARG:HH12	7:FL:164:GLU:CD	2.25	0.41
7:HL:124:THR:O	7:HL:128:ILE:HG12	2.20	0.41
29:JL:203:PEB:HBA2	29:JL:203:PEB:H2A1	1.91	0.41
7:bL:112:GLY:O	7:bL:116:THR:OG1	2.32	0.41
6:kL:22:SER:OG	6:mL:101:GLY:HA2	2.19	0.41
7:lL:116:THR:OG1	16:xL:176:TYR:CD2	2.73	0.41
7:vL:40:ALA:HB2	7:vL:161:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:zL:501:PEB:NA	29:zL:501:PEB:CMB	2.83	0.41
17:BM:112:MET:HG2	17:BM:246:ARG:HG3	2.02	0.41
7:DM:19:VAL:HG13	7:DM:23:ASP:HB2	2.02	0.41
7:HM:50:CYS:HB3	29:HM:203:PEB:H3A1	1.99	0.41
6:IM:3:SER:HB3	6:IM:99:VAL:CG1	2.50	0.41
7:LM:129:ARG:HD2	7:LM:129:ARG:HA	1.90	0.41
6:OM:3:SER:HB3	6:OM:99:VAL:CG1	2.50	0.41
6:UM:135:ARG:HD2	6:UM:157:ASP:OD2	2.20	0.41
6:fM:98:VAL:HG21	7:gM:19:VAL:HG11	2.03	0.41
7:gM:50:CYS:HB3	29:gM:203:PEB:H3A1	1.99	0.41
6:hM:147:GLN:CD	6:hM:147:GLN:H	2.18	0.41
6:IM:43:LYS:HA	6:IM:43:LYS:HD3	1.91	0.41
7:DN:109:CYS:HB2	7:DN:113:LEU:HD11	2.02	0.41
7:FN:43:SER:C	7:FN:46:SER:HG	2.27	0.41
7:LN:115:GLU:HA	7:LN:118:ILE:HG12	2.00	0.41
14:MN:100:THR:O	14:MN:101:LEU:C	2.60	0.41
6:AO:48:HIS:NE2	6:AO:49:GLU:HG3	2.35	0.41
6:CO:138:LEU:HD21	6:CO:149:GLY:HA3	2.03	0.41
6:EO:76:GLN:NE2	6:EO:80:ASN:OD1	2.50	0.41
7:MO:66:LEU:HD12	7:MO:66:LEU:HA	1.91	0.41
7:NO:141:PHE:HZ	29:NO:203:PEB:HMA3	1.84	0.41
21:DP:83:ARG:HH12	25:YP:486:GLY:C	2.28	0.41
21:FP:67:ARG:NH2	21:FP:67:ARG:CG	2.73	0.41
21:LP:19:LEU:HD13	22:VP:97:LEU:HD22	2.02	0.41
21:MP:112:LEU:HD23	21:MP:160:LEU:HD13	2.01	0.41
20:NP:77:MET:HE2	20:NP:77:MET:HA	2.02	0.41
20:PP:30:VAL:HG11	21:UP:34:GLY:HA3	2.00	0.41
21:SP:96:MET:HG2	21:SP:148:GLU:HG3	2.02	0.41
20:TP:135:ASP:OD1	20:TP:135:ASP:N	2.51	0.41
21:UP:58:LYS:HB3	21:UP:58:LYS:HE2	1.81	0.41
25:YP:245:GLN:HG3	25:YP:247:LEU:CD2	2.50	0.41
25:YP:523:ASN:HD21	25:YP:557:ASN:HD21	1.67	0.41
25:YP:590:TRP:CZ2	25:YP:594:ARG:HD3	2.55	0.41
25:YP:698:VAL:HG23	25:YP:699:SER:N	2.30	0.41
21:dP:96:MET:HG2	21:dP:148:GLU:HG3	2.02	0.41
21:hP:128:GLN:HE22	23:yP:73:ALA:HA	1.85	0.41
21:nP:71:MEN:CE2	24:zP:126:MET:HG2	2.47	0.41
20:pP:89:LEU:HB2	20:pP:133:MET:CE	2.48	0.41
21:sP:28:ARG:HG3	20:tP:37:LEU:HD13	2.02	0.41
25:1P:490:GLN:HA	25:1P:493:ASN:O	2.20	0.41
27:3P:59:LYS:O	27:3P:61:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BQ:116:THR:HG22	14:MQ:119:ALA:HB1	2.01	0.41
6:CQ:33:ARG:C	6:CQ:35:ALA:N	2.77	0.41
7:FQ:97:LEU:HD21	7:FQ:165:VAL:HB	2.02	0.41
6:IQ:81:LYS:HA	6:IQ:84:ARG:HG2	2.01	0.41
6:KQ:5:ILE:HA	6:KQ:8:VAL:HG22	2.01	0.41
8:eR:85:PRO:HD3	7:NR:107:ASP:O	2.19	0.41
8:eR:125:ARG:O	8:eR:128:ARG:NH2	2.53	0.41
29:OR:201:PEB:CMB	29:OR:201:PEB:HNA	2.33	0.41
6:QR:92:LEU:CB	6:QR:105:LEU:CD2	2.98	0.41
6:QR:137:ARG:HH21	29:QR:202:PEB:CHB	2.34	0.41
7:RR:107:ASP:OD1	7:RR:108:ARG:N	2.52	0.41
7:TR:39:ASP:OD1	29:TR:202:PEB:HHC1	2.20	0.41
7:TR:67:ILE:O	7:TR:67:ILE:HG22	2.20	0.41
6:WR:2:LYS:O	6:WR:101:GLY:HA3	2.21	0.41
1:X1:237:ALA:HB1	7:Y1:116:THR:CG2	2.49	0.41
1:X1:329:TYR:CZ	5:F1:84:ARG:HD3	2.56	0.41
3:B1:58:HIS:CD2	5:L1:84:ARG:HD3	2.55	0.41
4:C1:114:GLY:O	4:C1:116:GLU:N	2.53	0.41
5:F1:21:ASN:HB2	29:Q7:202:PEB:HBC2	2.01	0.41
8:e2:125:ARG:O	8:e2:128:ARG:NH2	2.54	0.41
29:e2:401:PEB:CHA	7:P2:82:CYS:HB2	2.50	0.41
6:Q2:9:VAL:CG2	7:R2:1:MET:HE1	2.50	0.41
6:S2:157:ASP:HA	6:S2:160:ILE:HB	2.02	0.41
6:A3:39:GLU:O	6:A3:43:LYS:CG	2.43	0.41
7:F3:1:MET:HG2	7:F3:108:ARG:HH21	1.85	0.41
7:N3:50:CYS:HB3	29:N3:203:PEB:H3A1	1.80	0.41
10:d4:198:TYR:C	10:d4:200:THR:N	2.75	0.41
7:C4:129:ARG:HH21	7:C4:133:ILE:N	2.18	0.41
6:D4:42:GLU:HG2	6:D4:43:LYS:N	2.36	0.41
6:D4:81:LYS:NZ	6:D4:85:ASP:OD1	2.51	0.41
7:E4:36:LYS:NZ	29:E4:202:PEB:C2B	2.83	0.41
6:F4:89:TYR:O	6:F4:93:VAL:HG22	2.20	0.41
7:G4:8:VAL:H	7:G4:8:VAL:HG13	1.61	0.41
6:H4:60:PHE:CD1	6:H4:67:LYS:NZ	2.88	0.41
7:I4:104:VAL:CG2	7:I4:108:ARG:CD	2.96	0.41
7:I4:137:GLN:CB	29:I4:203:PEB:C2B	2.95	0.41
6:J4:89:TYR:O	6:J4:93:VAL:HG22	2.20	0.41
6:J4:130:SER:O	6:J4:134:THR:HG23	2.20	0.41
6:L4:49:GLU:O	6:L4:52:VAL:HG22	2.20	0.41
7:B5:108:ARG:HA	7:B5:108:ARG:HD2	1.85	0.41
7:I5:25:GLN:HA	7:I5:28:LYS:HZ3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B7:52:ARG:HA	3:B7:60:ILE:HD11	2.01	0.41
5:H7:115:GLU:HA	5:H7:118:GLN:HB2	2.02	0.41
7:R7:6:SER:O	7:R7:10:VAL:HG23	2.20	0.41
7:c7:6:SER:O	7:c7:10:VAL:HG23	2.20	0.41
7:I8:40:ALA:O	7:I8:43:SER:OG	2.34	0.41
7:K8:79:MET:CE	7:LO:164:GLU:HA	2.50	0.41
1:X9:347:TYR:CE1	31:H9:1001:CYC:HBB3	2.54	0.41
5:F9:135:LYS:O	5:F9:139:VAL:HG23	2.21	0.41
29:F9:1002:PEB:HAB2	29:F9:1002:PEB:HBB1	1.91	0.41
5:J9:88:ILE:HG21	31:J9:1001:CYC:HAB2	2.01	0.41
5:L9:115:GLU:HA	5:L9:118:GLN:HB2	2.02	0.41
5:N9:135:LYS:O	5:N9:139:VAL:HG23	2.21	0.41
6:O9:53:LYS:HA	6:O9:53:LYS:HD3	1.71	0.41
7:e9:53:SER:O	7:e9:57:SER:OG	2.28	0.41
7:HA:38:LEU:HD23	7:HA:38:LEU:HA	1.83	0.41
7:JA:91:ARG:O	7:JA:94:SER:OG	2.36	0.41
7:TB:50:CYS:HB3	29:TB:203:PEB:H3A1	1.99	0.41
6:UB:135:ARG:HD2	6:UB:157:ASP:OD2	2.20	0.41
7:VB:19:VAL:HG13	7:VB:23:ASP:HB2	2.02	0.41
6:WB:3:SER:HB3	6:WB:99:VAL:CG1	2.50	0.41
7:ZB:84:ARG:NH2	29:ZB:201:PEB:NC	2.68	0.41
6:aB:3:SER:HB3	6:aB:99:VAL:CG1	2.50	0.41
6:fB:54:GLU:HG2	6:fB:133:TYR:CE2	2.31	0.41
7:kB:129:ARG:HD2	7:kB:129:ARG:HA	1.90	0.41
6:CC:106:ASP:HA	6:CC:110:ILE:HB	2.01	0.41
7:HC:30:PHE:HE1	7:HC:100:GLY:HA3	1.85	0.41
6:IC:106:ASP:HA	6:IC:110:ILE:HB	2.01	0.41
18:MC:62:GLY:O	18:MC:63:ASP:C	2.62	0.41
10:dD:68:LEU:HD23	10:dD:71:ARG:HD2	2.02	0.41
10:dD:133:PRO:HB2	29:dD:401:PEB:OD	2.20	0.41
7:CD:125:ASN:HA	7:CD:128:ILE:HD11	2.01	0.41
6:DD:27:ILE:H	6:DD:27:ILE:HG13	1.18	0.41
6:FD:1:MET:HB3	6:FD:2:LYS:H	1.68	0.41
6:FD:49:GLU:O	6:FD:52:VAL:HG22	2.20	0.41
6:FD:60:PHE:CD1	6:FD:67:LYS:NZ	2.88	0.41
7:GD:30:PHE:CE1	7:GD:37:ARG:NH1	2.88	0.41
7:GD:83:LEU:HD23	7:GD:83:LEU:HA	1.76	0.41
7:ID:58:GLY:CA	29:ID:203:PEB:HMD2	2.50	0.41
6:JD:60:PHE:CD1	6:JD:67:LYS:NZ	2.88	0.41
7:KD:129:ARG:NE	7:KD:129:ARG:HA	2.35	0.41
6:LD:130:SER:O	6:LD:134:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:MD:129:ARG:HH21	7:MD:133:ILE:N	2.18	0.41
6:EE:144:MET:HE3	6:EE:144:MET:HB3	1.66	0.41
7:FE:91:ARG:HH12	18:ME:92:VAL:HG11	1.84	0.41
6:GE:2:LYS:HD3	6:GE:2:LYS:HA	1.84	0.41
7:HE:30:PHE:HE1	7:HE:100:GLY:HA3	1.85	0.41
18:ME:280:VAL:HG13	4:CI:49:GLN:HA	2.02	0.41
3:BF:78:ILE:HB	3:BF:82:ASP:HB2	2.02	0.41
5:JF:166:ARG:HH22	27:3P:86:LYS:NZ	2.17	0.41
6:ZF:103:GLY:O	6:ZF:107:GLU:HB2	2.20	0.41
6:jF:156:LEU:HD23	6:jF:156:LEU:HA	1.91	0.41
7:HG:97:LEU:HD21	7:HG:165:VAL:HB	2.02	0.41
7:JG:65:GLY:O	7:JG:68:SER:OG	2.29	0.41
13:kH:156:THR:O	13:kH:156:THR:OG1	2.30	0.41
2:AI:105:GLU:HG3	30:AI:303:PUB:HNB	1.85	0.41
31:KI:1001:CYC:O1D	5:NI:57:ARG:HD3	2.19	0.41
6:UI:103:GLY:O	6:UI:107:GLU:HB2	2.20	0.41
6:WI:103:GLY:O	6:WI:107:GLU:HB2	2.20	0.41
6:ZI:103:GLY:O	6:ZI:107:GLU:HB2	2.20	0.41
7:cI:146:ALA:HB3	7:cI:149:ARG:O	2.21	0.41
6:fI:103:GLY:O	6:fI:107:GLU:HB2	2.20	0.41
7:DJ:69:PRO:HG2	7:LJ:16:ALA:HB2	2.03	0.41
7:FJ:7:ARG:O	7:FJ:11:ASN:OD1	2.37	0.41
6:KJ:72:ALA:C	29:KJ:201:PEB:OA	2.64	0.41
6:UJ:76:GLN:HG3	6:UJ:80:ASN:ND2	2.33	0.41
7:XJ:37:ARG:O	7:XJ:41:VAL:HG23	2.20	0.41
7:XJ:78:ARG:HD3	29:XJ:201:PEB:HMB3	2.02	0.41
7:ZJ:78:ARG:HD3	29:ZJ:201:PEB:HMB3	2.02	0.41
6:cJ:125:SER:HA	6:cJ:128:VAL:HG22	2.03	0.41
7:hJ:37:ARG:O	7:hJ:41:VAL:HG23	2.20	0.41
7:hJ:131:VAL:CG1	7:hJ:169:PHE:HD1	2.32	0.41
7:IJ:92:TYR:HB3	7:IJ:105:LEU:HD12	2.01	0.41
6:mJ:87:ASP:O	7:nJ:18:TYR:OH	2.29	0.41
29:nJ:203:PEB:HBA2	29:nJ:203:PEB:H2A1	1.91	0.41
6:sJ:10:SER:HB2	16:xJ:82:TYR:HB2	2.01	0.41
7:vJ:37:ARG:O	7:vJ:41:VAL:HG23	2.20	0.41
2:AK:36:GLY:C	6:SK:114:ARG:HH22	2.28	0.41
3:BK:43:VAL:HG11	3:BK:74:ARG:HG2	2.01	0.41
4:GK:130:ILE:HG23	4:GK:158:ILE:HG23	2.02	0.41
5:HK:38:LEU:C	29:HK:1002:PEB:HMD3	2.45	0.41
7:VK:173:GLY:O	7:VK:177:SER:OG	2.32	0.41
6:ZK:157:ASP:HA	6:ZK:160:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cK:69:PRO:CB	7:gK:16:ALA:HB2	2.50	0.41
6:EL:29:GLY:HA3	6:GL:25:GLU:O	2.20	0.41
7:HL:71:GLY:O	7:HL:74:TYR:HB3	2.20	0.41
7:JL:114:LYS:HE3	7:JL:177:SER:OXT	2.20	0.41
6:KL:72:ALA:C	29:KL:201:PEB:OA	2.64	0.41
29:LL:201:PEB:HBD2	19:zL:217:ALA:O	2.18	0.41
6:ML:33:ARG:CZ	6:ML:151:GLU:OE2	2.67	0.41
7:NL:19:VAL:CG1	7:NL:23:ASP:OD1	2.57	0.41
7:NL:129:ARG:CZ	7:bL:15:LYS:HG2	2.50	0.41
6:cL:85:ASP:OD2	6:cL:127:TYR:OH	2.30	0.41
7:dL:124:THR:O	7:dL:127:SER:OG	2.26	0.41
6:iL:65:TYR:CE2	6:iL:71:GLU:CD	2.77	0.41
7:jL:75:THR:OG1	7:jL:76:ASN:N	2.52	0.41
7:pL:92:TYR:HB3	7:pL:105:LEU:HD12	2.01	0.41
6:qL:125:SER:HA	6:qL:128:VAL:HG22	2.03	0.41
7:tL:37:ARG:O	7:tL:41:VAL:HG23	2.20	0.41
17:BM:61:GLN:HE21	7:DM:108:ARG:HA	1.85	0.41
6:EM:43:LYS:HA	6:EM:43:LYS:HD3	1.91	0.41
7:PM:19:VAL:HG13	7:PM:23:ASP:HB2	2.02	0.41
6:QM:144:MET:HE2	6:QM:144:MET:HB3	1.96	0.41
7:cM:19:VAL:HG13	7:cM:23:ASP:HB2	2.02	0.41
7:kM:85:ASP:CG	29:kM:201:PEB:HNC	2.27	0.41
7:FN:113:LEU:O	7:FN:116:THR:OG1	2.29	0.41
7:HN:59:MET:HG3	7:HN:130:ALA:HB2	2.02	0.41
6:IN:139:CYS:N	6:IN:143:ASP:OD2	2.51	0.41
14:MN:153:MET:HE3	14:MN:153:MET:HB3	1.90	0.41
7:NO:91:ARG:CZ	9:OO:377:ALA:HB3	2.48	0.41
21:DP:89:LEU:HD23	20:CP:17:TYR:OH	2.21	0.41
20:GP:48:GLU:HG2	20:GP:49:ARG:N	2.36	0.41
21:HP:112:LEU:HD23	21:HP:160:LEU:HD13	2.01	0.41
21:LP:107:ARG:O	24:XP:109:GLN:NE2	2.53	0.41
20:TP:151:PHE:HD2	27:aP:164:ARG:HH11	1.68	0.41
21:UP:72:MET:O	21:UP:72:MET:HG3	2.20	0.41
21:UP:96:MET:HG2	21:UP:148:GLU:HG3	2.02	0.41
25:YP:27:GLN:HB3	25:YP:33:ARG:NH1	2.35	0.41
28:bP:158:ASP:N	28:bP:175:GLY:O	2.50	0.41
20:gP:77:MET:HA	20:gP:77:MET:HE2	2.02	0.41
21:hP:96:MET:HG2	21:hP:148:GLU:HG3	2.02	0.41
20:iP:77:MET:HA	20:iP:77:MET:HE2	2.02	0.41
21:nP:9:ILE:HG13	22:xP:97:LEU:HD23	1.98	0.41
21:uP:112:LEU:HD23	21:uP:160:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:zP:111:MET:HE1	25:1P:383:SER:CB	2.51	0.41
25:1P:343:PHE:HE2	25:1P:351:LEU:HD21	1.85	0.41
27:3P:229:LYS:HB2	27:3P:230:PRO:HD2	2.02	0.41
6:CQ:33:ARG:O	6:CQ:35:ALA:N	2.54	0.41
6:EQ:81:LYS:HA	6:EQ:84:ARG:HG2	2.00	0.41
6:IQ:37:ARG:HH22	6:IQ:98:VAL:C	2.28	0.41
7:JQ:113:LEU:O	7:JQ:116:THR:OG1	2.29	0.41
6:KQ:81:LYS:HA	6:KQ:84:ARG:HG2	2.00	0.41
14:MQ:228:GLN:HE21	14:MQ:282:ALA:HB3	1.86	0.41
8:eR:221:ASN:HD22	7:TR:113:LEU:HB2	1.85	0.41
6:MR:113:ALA:HB1	6:MR:117:TYR:CE2	2.54	0.41
7:NR:39:ASP:OD1	29:NR:202:PEB:HHC1	2.20	0.41
6:SR:113:ALA:HB1	6:SR:117:TYR:CE2	2.54	0.41
6:SR:142:ARG:NH2	29:SR:202:PEB:CHA	2.65	0.41
7:TR:113:LEU:HD23	7:TR:176:ILE:CG2	2.51	0.41
29:UR:201:PEB:HNA	29:UR:201:PEB:CMB	2.33	0.41
6:WR:47:ASN:ND2	29:WR:202:PEB:HMC1	2.36	0.41
4:E1:2:LYS:H	4:E1:105:GLY:HA3	1.86	0.41
4:G1:19:LEU:O	5:H1:45:THR:HG21	2.20	0.41
5:J1:145:THR:HG22	5:J1:150:ILE:HD13	1.97	0.41
4:K1:130:ILE:HG23	4:K1:158:ILE:HG23	2.02	0.41
7:R1:1:MET:HE3	7:R1:104:VAL:HB	2.01	0.41
6:W1:157:ASP:HA	6:W1:160:ILE:HB	2.02	0.41
29:c1:201:PEB:HAB1	29:c1:201:PEB:HHB1	1.91	0.41
6:d1:99:VAL:CG2	7:e1:9:VAL:HG21	2.51	0.41
6:f1:5:ILE:CG2	7:g1:3:ASP:OD2	2.68	0.41
6:j1:99:VAL:CG2	7:k1:9:VAL:HG21	2.50	0.41
29:e2:401:PEB:HBA1	7:P2:56:VAL:HG22	2.02	0.41
7:T2:129:ARG:HD2	7:T2:129:ARG:HA	1.82	0.41
6:U2:157:ASP:HA	6:U2:160:ILE:HB	2.02	0.41
6:W2:157:ASP:HA	6:W2:160:ILE:HB	2.02	0.41
7:X2:125:ASN:OD1	7:X2:126:SER:N	2.52	0.41
6:A3:48:HIS:NE2	6:A3:49:GLU:HG3	2.35	0.41
7:B3:1:MET:HG2	7:B3:108:ARG:HH21	1.85	0.41
6:E3:88:HIS:CD2	6:E3:91:ARG:HH21	2.38	0.41
7:H3:1:MET:HG2	7:H3:108:ARG:HH21	1.85	0.41
10:d4:68:LEU:HD23	10:d4:71:ARG:HD2	2.02	0.41
6:B4:60:PHE:CD1	6:B4:67:LYS:NZ	2.88	0.41
7:E4:85:ASP:HB2	29:E4:201:PEB:HHA1	2.01	0.41
7:E4:117:TYR:HA	7:E4:120:LEU:HB2	2.02	0.41
7:E4:117:TYR:HB3	7:E4:122:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E4:135:LYS:CE	7:E4:169:PHE:HB2	2.50	0.41
6:F4:81:LYS:HG3	29:F4:201:PEB:C3B	2.51	0.41
7:G4:85:ASP:HB2	29:G4:201:PEB:HHA1	2.01	0.41
7:I4:142:ILE:H	7:I4:142:ILE:HG12	1.60	0.41
29:I4:202:PEB:O1B	29:I4:202:PEB:HAC1	2.20	0.41
7:K4:129:ARG:HH21	7:K4:133:ILE:N	2.18	0.41
29:M4:202:PEB:O1B	29:M4:202:PEB:HAC1	2.20	0.41
7:B5:91:ARG:NE	18:MC:293:MET:HB2	2.34	0.41
7:I5:27:LEU:HD23	19:zL:298:ALA:HB3	2.00	0.41
7:A5:40:ALA:O	7:A5:43:SER:OG	2.34	0.41
13:k6:134:ILE:HD11	13:k6:143:ALA:HB3	2.01	0.41
5:D7:14:ALA:O	5:F7:70:GLY:HA3	2.20	0.41
5:J7:30:MET:HE2	5:J7:30:MET:HB3	1.92	0.41
4:K7:61:ASN:OD1	5:JF:146:THR:HA	2.21	0.41
7:P7:5:PHE:HD1	7:P7:27:LEU:HD22	1.85	0.41
7:P7:8:VAL:HG21	7:P7:27:LEU:HD21	2.02	0.41
7:V7:6:SER:O	7:V7:10:VAL:HG23	2.20	0.41
7:I8:1:MET:CB	28:4P:118:LEU:HD21	2.48	0.41
6:J8:113:ALA:HB2	26:ZP:65:LEU:HD21	2.02	0.41
1:X9:191:TYR:OH	1:X9:198:PHE:O	2.37	0.41
5:D9:135:LYS:O	5:D9:139:VAL:HG23	2.21	0.41
4:E9:90:TYR:HE1	8:eR:297:GLY:O	1.98	0.41
5:L9:135:LYS:O	5:L9:139:VAL:HG23	2.21	0.41
5:N9:39:ASP:OD1	29:N9:1002:PEB:HMD1	2.17	0.41
6:Q9:76:GLN:HE22	4:EK:53:THR:CB	2.32	0.41
7:e9:6:SER:O	7:e9:10:VAL:HG23	2.20	0.41
29:f9:201:PEB:HAB2	29:f9:201:PEB:HHB1	1.93	0.41
7:i9:8:VAL:HG21	7:i9:27:LEU:HD21	2.02	0.41
7:i9:83:LEU:O	7:i9:87:GLU:HG3	2.20	0.41
6:GA:139:CYS:N	6:GA:143:ASP:OD2	2.51	0.41
7:HA:150:LYS:HA	7:HA:150:LYS:HD3	1.89	0.41
6:IA:43:LYS:HZ3	6:IA:143:ASP:HB3	1.85	0.41
6:KA:105:LEU:HD21	6:KA:159:LEU:HD12	2.03	0.41
15:bB:93:GLU:HG3	6:IB:114:ARG:HH22	1.84	0.41
17:BB:53:SER:O	17:BB:58:ARG:NH2	2.53	0.41
7:LB:125:ASN:OD1	7:LB:125:ASN:C	2.59	0.41
7:NB:19:VAL:HG13	7:NB:23:ASP:HB2	2.02	0.41
6:UB:43:LYS:HE3	14:MG:115:TYR:CD2	2.53	0.41
6:WB:43:LYS:HD3	6:WB:43:LYS:HA	1.91	0.41
6:aB:119:THR:HG21	7:kB:83:LEU:CD1	2.49	0.41
6:fB:98:VAL:HG21	7:gB:19:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:iB:19:VAL:HG13	7:iB:23:ASP:HB2	2.02	0.41
6:CC:41:ALA:O	6:CC:45:ALA:CB	2.69	0.41
6:EC:144:MET:HE3	6:EC:144:MET:HB3	1.66	0.41
7:FC:148:GLU:OE1	29:FC:203:PEB:NA	2.53	0.41
6:GC:2:LYS:HD3	6:GC:2:LYS:HA	1.84	0.41
7:JC:148:GLU:OE1	29:JC:202:PEB:NA	2.53	0.41
18:MC:214:ASP:OD1	18:MC:214:ASP:N	2.46	0.41
18:MC:287:VAL:O	5:DF:20:SER:HB3	2.20	0.41
10:dD:138:GLU:OE1	10:dD:248:THR:OG1	2.27	0.41
10:dD:288:ARG:HB3	10:dD:298:TYR:CD1	2.55	0.41
7:CD:85:ASP:HB2	29:CD:201:PEB:HHA1	2.01	0.41
6:DD:2:LYS:HE2	6:DD:7:THR:CG2	2.49	0.41
6:DD:42:GLU:HG2	6:DD:43:LYS:N	2.36	0.41
6:FD:130:SER:O	6:FD:134:THR:HG23	2.20	0.41
7:GD:117:TYR:HB3	7:GD:122:VAL:HB	2.02	0.41
7:GD:125:ASN:HA	7:GD:128:ILE:HD11	2.01	0.41
7:KD:22:SER:OG	7:KD:23:ASP:OD1	2.36	0.41
7:MD:167:SER:O	7:MD:171:ARG:NH1	2.53	0.41
7:BE:21:GLY:O	7:BE:25:GLN:NE2	2.41	0.41
6:CE:106:ASP:HA	6:CE:110:ILE:HB	2.01	0.41
7:DE:30:PHE:HE1	7:DE:100:GLY:HA3	1.85	0.41
7:DE:129:ARG:NH1	7:DE:132:SER:OG	2.53	0.41
7:HE:148:GLU:OE1	29:HE:203:PEB:NA	2.53	0.41
6:IE:106:ASP:HA	6:IE:110:ILE:HB	2.01	0.41
6:KE:44:LEU:O	6:KE:48:HIS:N	2.53	0.41
7:LE:30:PHE:HE1	7:LE:100:GLY:HA3	1.85	0.41
18:ME:141:ARG:HH12	18:ME:143:PRO:HA	1.84	0.41
18:ME:241:ALA:HB2	6:SI:133:TYR:CZ	2.34	0.41
3:BF:57:GLU:HB3	3:BF:58:HIS:HD2	1.85	0.41
3:BF:57:GLU:HG3	5:JF:84:ARG:HD3	2.02	0.41
3:BF:65:LYS:HB3	3:BF:65:LYS:HE3	1.82	0.41
3:BF:226:GLN:HE21	27:3P:63:ARG:CD	2.31	0.41
5:JF:74:TYR:C	5:JF:75:THR:HG23	2.40	0.41
4:MF:8:ALA:HB1	4:MF:23:GLU:HB3	2.01	0.41
6:SF:88:HIS:CD2	6:SF:91:ARG:HH21	2.39	0.41
6:AG:90:MET:H	6:AG:90:MET:HG3	1.53	0.41
7:BG:137:GLN:NE2	29:BG:203:PEB:CHA	2.83	0.41
6:CG:48:HIS:HB3	7:DG:18:TYR:CE1	2.55	0.41
7:FG:133:ILE:HG12	29:FG:203:PEB:HMC1	2.03	0.41
7:LG:109:CYS:C	14:MG:236:TYR:HE1	2.11	0.41
7:LG:133:ILE:O	7:LG:137:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:MG:149:ALA:H	14:MG:153:MET:HB2	1.85	0.41
14:MG:220:LEU:O	14:MG:222:SER:N	2.53	0.41
13:kH:93:MET:CE	13:kH:142:SER:CB	2.99	0.41
3:BI:227:GLU:CB	20:vP:56:GLN:OE1	2.66	0.41
5:FI:59:LEU:HD22	5:FI:130:ALA:HB2	2.02	0.41
5:HI:75:THR:HG1	5:HI:78:ARG:H	1.60	0.41
5:LI:15:ARG:HG3	5:LI:17:GLU:HB2	2.02	0.41
6:OI:157:ASP:OD1	6:OI:157:ASP:N	2.53	0.41
7:eI:129:ARG:HA	7:eI:129:ARG:HD2	1.92	0.41
6:EJ:30:ASN:OD1	6:EJ:37:ARG:NH2	2.44	0.41
7:FJ:92:TYR:HB3	7:FJ:105:LEU:HD12	2.01	0.41
7:LJ:100:GLY:O	28:4P:227:VAL:CG2	2.67	0.41
6:MJ:33:ARG:HB3	6:MJ:33:ARG:CZ	2.44	0.41
6:MJ:125:SER:HA	6:MJ:128:VAL:HG22	2.03	0.41
7:NJ:37:ARG:O	7:NJ:41:VAL:HG23	2.20	0.41
6:OJ:139:CYS:HB3	29:OJ:202:PEB:H3A1	1.72	0.41
7:XJ:158:CYS:HB3	29:XJ:202:PEB:HBA1	1.88	0.41
29:gJ:201:PEB:HAC2	29:gJ:201:PEB:HBB1	1.92	0.41
6:qJ:33:ARG:HH21	6:qJ:33:ARG:CB	2.31	0.41
29:sJ:201:PEB:HAC2	29:sJ:201:PEB:HBB1	1.92	0.41
19:zJ:84:LEU:HD12	19:zJ:84:LEU:HA	1.82	0.41
2:AK:41:SER:HB2	29:VK:201:PEB:HBD1	2.01	0.41
4:IK:140:HIS:ND1	4:IK:142:LEU:HB2	2.36	0.41
5:JK:8:VAL:O	5:JK:19:LEU:HD21	2.20	0.41
5:NK:82:CYS:HB3	31:NK:1001:CYC:HBC1	1.86	0.41
7:VK:159:THR:HB	14:MN:103:ARG:HE	0.69	0.41
6:bK:157:ASP:HA	6:bK:160:ILE:HB	2.02	0.41
7:cK:173:GLY:O	7:cK:177:SER:OG	2.32	0.41
29:hK:202:PEB:HBA3	29:hK:202:PEB:H2A1	1.89	0.41
7:FL:92:TYR:HB3	7:FL:105:LEU:HD12	2.01	0.41
7:JL:1:MET:HE3	7:JL:1:MET:HB2	1.80	0.41
29:ML:202:PEB:HBA3	29:ML:202:PEB:H2A1	1.91	0.41
7:NL:37:ARG:O	7:NL:41:VAL:HG23	2.20	0.41
6:OL:125:SER:HA	6:OL:128:VAL:HG22	2.03	0.41
7:PL:5:PHE:HZ	7:PL:31:ILE:HG12	1.85	0.41
6:QL:68:ASN:CB	6:QL:71:GLU:OE2	2.60	0.41
29:eL:202:PEB:HBA3	29:eL:202:PEB:H2A1	1.91	0.41
6:iL:125:SER:HA	6:iL:128:VAL:HG22	2.03	0.41
6:kL:30:ASN:OD1	6:kL:37:ARG:NH2	2.44	0.41
6:kL:88:HIS:CE1	7:tL:74:TYR:HE1	2.38	0.41
29:kL:201:PEB:HAC1	7:tL:79:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:nL:78:ARG:HD3	29:nL:201:PEB:HMB3	2.02	0.41
6:qL:53:LYS:HA	6:qL:53:LYS:HD3	1.90	0.41
16:wL:86:CYS:CB	30:wL:305:PUB:HAA1	2.36	0.41
19:zL:323:MET:HE2	20:NP:48:GLU:HA	1.99	0.41
17:BM:73:VAL:HG23	17:BM:76:LYS:HE3	2.03	0.41
6:CM:54:GLU:HG3	29:CM:202:PEB:HMC1	2.02	0.41
6:EM:135:ARG:HD2	6:EM:157:ASP:OD2	2.20	0.41
6:EM:135:ARG:NH1	6:EM:157:ASP:OD1	2.39	0.41
6:UM:3:SER:HB3	6:UM:99:VAL:CG1	2.50	0.41
6:WM:3:SER:HB3	6:WM:99:VAL:CG1	2.50	0.41
7:kM:36:LYS:NZ	7:kM:157:ASP:O	2.43	0.41
6:EN:139:CYS:N	6:EN:143:ASP:OD2	2.51	0.41
7:FN:125:ASN:N	7:FN:125:ASN:OD1	2.53	0.41
14:MN:117:ARG:HB3	14:MN:118:LYS:HZ2	1.86	0.41
7:DO:1:MET:HG2	7:DO:108:ARG:HH21	1.84	0.41
7:FO:59:MET:HE3	7:FO:59:MET:HB3	1.86	0.41
6:GO:88:HIS:CD2	6:GO:91:ARG:HH21	2.38	0.41
20:CP:48:GLU:HG2	20:CP:49:ARG:N	2.36	0.41
21:LP:96:MET:HG2	21:LP:148:GLU:HG3	2.02	0.41
21:QP:96:MET:HG2	21:QP:148:GLU:HG3	2.02	0.41
20:RP:77:MET:HE2	20:RP:77:MET:HA	2.02	0.41
22:VP:65:TYR:O	22:VP:70:GLY:HA3	2.20	0.41
23:WP:110:LEU:HD23	23:WP:110:LEU:HA	1.87	0.41
25:YP:483:ARG:HG3	25:YP:506:PRO:HD3	2.01	0.41
25:YP:772:LEU:HD12	25:YP:776:TYR:HB3	2.03	0.41
20:iP:17:TYR:CE1	23:yP:96:ARG:HD3	2.56	0.41
20:lP:48:GLU:HG2	20:lP:49:ARG:N	2.36	0.41
21:oP:147:LYS:CD	21:oP:147:LYS:C	2.94	0.41
25:1P:661:ILE:O	25:1P:661:ILE:HG13	2.20	0.41
7:BQ:109:CYS:HA	14:MQ:122:PHE:HZ	1.85	0.41
6:EQ:37:ARG:HH22	6:EQ:98:VAL:C	2.28	0.41
7:FQ:116:THR:HG22	14:MQ:177:SER:HB2	2.02	0.41
6:KQ:19:PRO:HG3	7:LQ:94:SER:HB2	2.03	0.41
7:LQ:127:SER:HB2	7:LQ:176:ILE:HD12	2.03	0.41
8:eR:291:ILE:O	8:eR:291:ILE:HG13	2.19	0.41
6:MR:9:VAL:HG21	7:NR:1:MET:HE1	2.03	0.41
29:MR:201:PEB:HNA	29:MR:201:PEB:CMB	2.33	0.41
6:QR:9:VAL:CG2	7:RR:1:MET:HE1	2.50	0.41
6:QR:13:ASP:OD2	7:RR:92:TYR:HE1	2.00	0.41
7:TR:110:LEU:HD13	7:TR:175:ALA:HB2	2.02	0.41
3:B1:200:ALA:HA	20:JP:66:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:204:ARG:HB2	5:L1:125:SER:CB	2.50	0.41
4:E1:130:ILE:HG23	4:E1:158:ILE:HG23	2.02	0.41
7:P1:3:ASP:CG	7:P1:99:ALA:HB1	2.41	0.41
7:Y1:125:ASN:OD1	7:Y1:126:SER:N	2.54	0.41
6:d1:139:CYS:HB3	29:d1:202:PEB:H3A1	1.88	0.41
6:j1:157:ASP:HA	6:j1:160:ILE:HB	2.02	0.41
7:m1:112:GLY:O	7:m1:116:THR:OG1	2.32	0.41
6:M2:137:ARG:NH2	29:M2:202:PEB:HHB1	2.35	0.41
6:O2:79:ILE:CG2	13:k6:245:VAL:HG11	2.50	0.41
6:O2:142:ARG:HD2	6:lB:76:GLN:NE2	2.32	0.41
6:S2:2:LYS:O	6:S2:101:GLY:HA3	2.21	0.41
6:S2:103:GLY:O	6:S2:107:GLU:HG2	2.20	0.41
7:T2:67:ILE:O	7:T2:74:TYR:CD1	2.72	0.41
29:U2:201:PEB:CMB	29:U2:201:PEB:HNA	2.33	0.41
6:W2:63:TYR:HB3	6:W2:66:LEU:HD13	2.02	0.41
6:W2:81:LYS:HG2	6:W2:84:ARG:HH21	1.85	0.41
6:W2:138:LEU:HB2	29:W2:202:PEB:HMD3	2.02	0.41
7:N3:101:ASP:OD1	7:N3:101:ASP:N	2.54	0.41
10:d4:127:PHE:HE1	10:d4:218:ASP:OD2	2.03	0.41
10:d4:210:MET:HE2	10:d4:210:MET:HB3	1.58	0.41
29:C4:202:PEB:CMD	6:D4:150:VAL:HG11	2.42	0.41
6:D4:54:GLU:CG	6:D4:137:ARG:HD2	2.51	0.41
6:D4:130:SER:O	6:D4:134:THR:HG23	2.20	0.41
6:F4:130:SER:O	6:F4:134:THR:HG23	2.20	0.41
6:H4:155:TYR:O	6:H4:158:TYR:HB3	2.21	0.41
6:J4:9:VAL:HG11	7:K4:95:TYR:HD1	1.63	0.41
6:J4:81:LYS:HZ1	29:J4:201:PEB:CHB	2.33	0.41
6:J4:92:LEU:HD21	6:J4:108:TRP:HE3	1.84	0.41
6:J4:106:ASP:O	6:J4:111:ALA:HB2	2.21	0.41
6:L4:60:PHE:CD1	6:L4:67:LYS:NZ	2.89	0.41
7:M4:133:ILE:O	7:M4:137:GLN:HG2	2.20	0.41
7:C5:158:CYS:HB3	29:C5:202:PEB:HBA1	1.95	0.41
13:k6:93:MET:CE	13:k6:142:SER:CB	2.99	0.41
13:k6:211:PRO:HB3	6:U7:77:GLU:OE2	2.20	0.41
1:X7:106:GLN:CB	1:X7:124:LEU:HD11	2.49	0.41
1:X7:233:SER:HB2	1:X7:239:PRO:HG3	2.01	0.41
5:D7:135:LYS:O	5:D7:139:VAL:HG23	2.21	0.41
4:I7:117:GLU:O	4:I7:121:SER:OG	2.36	0.41
7:a7:5:PHE:HD1	7:a7:27:LEU:HD22	1.85	0.41
7:g7:5:PHE:HD1	7:g7:27:LEU:HD22	1.85	0.41
7:g7:8:VAL:HG21	7:g7:27:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:i7:8:VAL:HG21	7:i7:27:LEU:HD21	2.02	0.41
6:j7:126:ALA:HB3	29:j7:201:PEB:HMA1	2.01	0.41
7:G8:157:ASP:OD2	7:G8:159:THR:OG1	2.32	0.41
6:J8:18:PHE:HE2	7:K8:91:ARG:HG2	1.63	0.41
7:K8:1:MET:CE	7:K8:104:VAL:HG21	2.42	0.41
7:K8:115:GLU:CD	27:3P:269:LYS:HZ1	2.29	0.41
7:K8:115:GLU:CD	27:3P:269:LYS:NZ	2.78	0.41
12:E8:164:VAL:HG23	29:kF:203:PEB:C4D	2.50	0.41
2:A9:76:LYS:HE2	2:A9:76:LYS:HB3	1.89	0.41
6:Q9:76:GLN:NE2	4:EK:53:THR:CB	2.80	0.41
6:W9:2:LYS:NZ	6:Z9:22:SER:OG	2.53	0.41
6:W9:126:ALA:HB3	29:W9:201:PEB:HMA1	2.01	0.41
6:W9:133:TYR:OH	8:eR:258:ASN:ND2	2.52	0.41
7:a9:6:SER:O	7:a9:10:VAL:HG23	2.20	0.41
7:a9:60:ILE:O	7:a9:63:ASN:O	2.38	0.41
7:c9:83:LEU:O	7:c9:87:GLU:HG3	2.21	0.41
29:d9:201:PEB:HAB2	29:d9:201:PEB:HBB1	1.93	0.41
6:CA:105:LEU:HD21	6:CA:159:LEU:HD12	2.03	0.41
6:CA:134:THR:HA	6:CA:137:ARG:HB3	2.02	0.41
7:FA:59:MET:HG3	7:FA:130:ALA:HB2	2.02	0.41
6:GA:91:ARG:HG2	6:GA:95:TYR:CZ	2.55	0.41
6:IA:105:LEU:HD21	6:IA:159:LEU:HD12	2.03	0.41
6:KA:90:MET:HB3	7:LA:18:TYR:OH	2.21	0.41
14:MA:176:MET:HE3	14:MA:176:MET:HB3	1.84	0.41
15:bB:112:SER:OG	15:bB:113:VAL:N	2.53	0.41
15:bB:404:MET:HB3	15:bB:406:ARG:HH12	1.85	0.41
6:CB:54:GLU:HG3	29:CB:202:PEB:HMC1	2.02	0.41
7:NB:7:ARG:HA	7:NB:7:ARG:HD3	1.90	0.41
6:OB:3:SER:HB3	6:OB:99:VAL:CG1	2.50	0.41
6:QB:116:VAL:HG12	7:VB:83:LEU:HD12	2.03	0.41
7:RB:50:CYS:HB3	29:RB:203:PEB:H3A1	1.99	0.41
7:XB:19:VAL:HG13	7:XB:23:ASP:HB2	2.02	0.41
6:YB:3:SER:HB3	6:YB:99:VAL:CG1	2.50	0.41
6:YB:44:LEU:O	6:YB:48:HIS:HB3	2.21	0.41
6:dB:16:GLY:HA2	7:eB:91:ARG:NH1	2.36	0.41
6:fB:94:ASN:OD1	7:gB:19:VAL:N	2.36	0.41
6:jB:3:SER:HB3	6:jB:99:VAL:CG1	2.50	0.41
6:CC:119:THR:HG21	7:HC:83:LEU:HD11	2.02	0.41
6:IC:41:ALA:O	6:IC:45:ALA:CB	2.69	0.41
18:MC:45:PHE:CZ	18:MC:253:ALA:CA	3.03	0.41
18:MC:261:VAL:HG21	6:SF:68:ASN:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:130:SER:O	6:BD:134:THR:HG23	2.20	0.41
6:DD:49:GLU:O	6:DD:52:VAL:HG22	2.20	0.41
6:HD:60:PHE:CD1	6:HD:67:LYS:NZ	2.88	0.41
6:HD:130:SER:O	6:HD:134:THR:HG23	2.20	0.41
7:ID:75:THR:H	7:ID:78:ARG:HH21	1.68	0.41
7:KD:133:ILE:O	7:KD:137:GLN:HG2	2.20	0.41
29:KD:202:PEB:O1B	29:KD:202:PEB:HAC1	2.21	0.41
6:LD:66:LEU:HA	6:LD:71:GLU:HG3	2.03	0.41
6:LD:106:ASP:O	6:LD:111:ALA:HB2	2.21	0.41
7:FE:129:ARG:NH1	7:FE:132:SER:OG	2.53	0.41
6:IE:41:ALA:O	6:IE:45:ALA:CB	2.69	0.41
7:JE:148:GLU:OE1	29:JE:202:PEB:NA	2.53	0.41
7:LE:51:MET:HE3	7:LE:137:GLN:CB	2.37	0.41
7:LE:120:LEU:CD2	18:ME:219:SER:HB2	2.50	0.41
7:LE:148:GLU:OE1	29:LE:203:PEB:NA	2.53	0.41
18:ME:62:GLY:O	18:ME:63:ASP:C	2.62	0.41
18:ME:310:SER:O	7:dL:64:PRO:HG3	2.20	0.41
1:XF:276:ARG:HE	3:BF:39:SER:HA	1.86	0.41
4:MF:97:TYR:CE2	5:Nf:13:ASP:HB2	2.56	0.41
6:UF:88:HIS:CD2	6:UF:91:ARG:HH21	2.39	0.41
6:UF:137:ARG:HE	6:UF:137:ARG:HB2	1.73	0.41
7:aF:24:LEU:HD23	7:aF:24:LEU:HA	1.89	0.41
7:aF:47:ASN:HD22	7:aF:149:ARG:HD3	1.86	0.41
6:bF:88:HIS:CD2	6:bF:91:ARG:HH21	2.39	0.41
7:cF:146:ALA:HB3	7:cF:149:ARG:O	2.21	0.41
6:hF:156:LEU:HD23	6:hF:156:LEU:HA	1.91	0.41
6:jF:137:ARG:HE	6:jF:137:ARG:HB2	1.73	0.41
7:BG:127:SER:HB2	7:BG:176:ILE:HD12	2.03	0.41
6:CG:135:ARG:HE	6:CG:156:LEU:HD13	1.85	0.41
6:IG:2:LYS:HZ3	14:MG:254:VAL:CG1	2.24	0.41
7:LG:164:GLU:O	7:LG:167:SER:OG	2.36	0.41
14:MG:195:CYS:HB3	29:MG:404:PEB:HBA1	1.83	0.41
3:BI:91:ALA:HB1	4:CI:15:GLN:OE1	2.21	0.41
6:WI:156:LEU:HD23	6:WI:156:LEU:HA	1.91	0.41
6:ZI:156:LEU:HD23	6:ZI:156:LEU:HA	1.91	0.41
6:fl:88:HIS:CD2	6:fl:91:ARG:HH21	2.39	0.41
7:mI:47:ASN:HD22	7:mI:149:ARG:HD3	1.86	0.41
7:LJ:37:ARG:O	7:LJ:41:VAL:HG23	2.20	0.41
29:LJ:201:PEB:HBD2	19:zJ:217:ALA:O	2.18	0.41
7:PJ:5:PHE:HZ	7:PJ:31:ILE:HG12	1.85	0.41
7:RJ:129:ARG:HA	7:RJ:129:ARG:HD2	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:TJ:124:THR:O	7:TJ:127:SER:OG	2.26	0.41
7:VJ:155:ALA:HB1	7:NO:66:LEU:HD11	1.97	0.41
7:bJ:40:ALA:HB2	7:bJ:161:LEU:HD13	2.01	0.41
6:iJ:139:CYS:HB3	29:iJ:202:PEB:H3A1	1.72	0.41
7:jJ:37:ARG:O	7:jJ:41:VAL:HG23	2.20	0.41
6:kJ:68:ASN:CG	6:kJ:71:GLU:OE2	2.48	0.41
6:kJ:88:HIS:CE1	7:tJ:74:TYR:HE1	2.38	0.41
6:qJ:43:LYS:HA	6:qJ:43:LYS:HD2	1.67	0.41
29:rJ:203:PEB:HBA2	29:rJ:203:PEB:H2A1	1.91	0.41
3:BK:80:ILE:HD13	3:BK:80:ILE:HA	1.92	0.41
3:BK:204:ARG:HB2	5:LK:125:SER:CB	2.50	0.41
5:DK:43:LYS:HD3	5:DK:43:LYS:HA	1.91	0.41
4:EK:2:LYS:H	4:EK:105:GLY:HA3	1.86	0.41
4:GK:93:ARG:NH1	5:HK:13:ASP:OD1	2.53	0.41
5:JK:40:ILE:HG22	5:JK:41:VAL:N	2.34	0.41
5:LK:8:VAL:HG12	5:LK:19:LEU:HD21	2.02	0.41
5:LK:19:LEU:HD23	5:LK:19:LEU:HA	1.92	0.41
4:MK:139:SER:O	4:MK:139:SER:OG	2.35	0.41
29:YK:201:PEB:HAB1	29:YK:201:PEB:HHB1	1.91	0.41
29:bK:202:PEB:HBA3	29:bK:202:PEB:H2A1	1.89	0.41
7:eK:129:ARG:HA	7:eK:129:ARG:HD2	1.87	0.41
7:iK:125:ASN:OD1	7:iK:126:SER:N	2.54	0.41
6:EL:161:ASN:CG	7:HL:49:SER:OG	2.63	0.41
7:HL:118:ILE:CD1	19:zL:398:GLU:HG2	2.50	0.41
6:KL:72:ALA:HB3	29:KL:201:PEB:CMA	2.49	0.41
6:UL:2:LYS:HD2	17:yL:105:GLY:HA3	2.02	0.41
6:UL:77:GLU:H	6:UL:77:GLU:HG2	1.55	0.41
7:XL:19:VAL:CG1	7:XL:23:ASP:OD1	2.57	0.41
7:XL:37:ARG:O	7:XL:41:VAL:HG23	2.20	0.41
7:ZL:40:ALA:HB2	7:ZL:161:LEU:HD13	2.01	0.41
7:bL:78:ARG:HD3	29:bL:201:PEB:HMB3	2.02	0.41
6:iL:30:ASN:OD1	6:iL:37:ARG:NH2	2.44	0.41
7:jL:78:ARG:HD3	29:jL:201:PEB:HMB3	2.02	0.41
7:jL:158:CYS:HB3	29:jL:202:PEB:HBA1	1.88	0.41
6:kL:125:SER:HA	6:kL:128:VAL:HG22	2.03	0.41
7:lL:37:ARG:O	7:lL:41:VAL:HG23	2.20	0.41
7:nL:37:ARG:O	7:nL:41:VAL:HG23	2.20	0.41
17:yL:156:LEU:HD21	17:yL:269:LEU:HD21	2.02	0.41
15:bM:379:ARG:HB3	28:4P:43:TYR:OH	2.20	0.41
6:SM:3:SER:HB3	6:SM:99:VAL:CG1	2.50	0.41
6:WM:33:ARG:NH2	6:WM:147:GLN:NE2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jM:3:SER:HB3	6:jM:99:VAL:CG1	2.50	0.41
7:BN:147:THR:OG1	29:BN:203:PEB:OA	2.27	0.41
7:HN:21:GLY:HA2	7:HN:24:LEU:HB2	2.02	0.41
6:KN:42:GLU:CA	7:LN:20:GLY:HA3	2.50	0.41
7:LN:23:ASP:OD1	7:LN:23:ASP:N	2.50	0.41
14:MN:295:PHE:HB3	14:MN:299:ARG:NH2	2.35	0.41
7:LO:1:MET:HG2	7:LO:108:ARG:HH21	1.85	0.41
9:OO:56:PRO:HD3	9:OO:77:MET:HE3	2.01	0.41
20:AP:48:GLU:HG2	20:AP:49:ARG:N	2.36	0.41
20:AP:77:MET:HA	20:AP:77:MET:HE2	2.02	0.41
20:EP:15:ALA:HB2	25:YP:532:LEU:CD1	2.45	0.41
20:KP:135:ASP:OD1	20:KP:135:ASP:N	2.51	0.41
21:SP:38:VAL:CG1	20:TP:23:LEU:HB3	2.50	0.41
20:TP:32:SER:HB3	27:aP:153:PHE:HA	2.02	0.41
25:YP:176:ARG:HD3	25:YP:226:GLU:OE2	2.21	0.41
27:aP:49:LYS:N	21:sP:64:ASP:OD2	2.51	0.41
20:iP:48:GLU:HG2	20:iP:49:ARG:N	2.36	0.41
20:lP:89:LEU:HB2	20:lP:133:MET:CE	2.49	0.41
20:mP:25:ARG:NH1	25:1P:45:SER:H	2.09	0.41
21:mP:107:ARG:CZ	24:zP:110:LYS:HD3	2.50	0.41
20:pP:48:GLU:HG2	20:pP:49:ARG:N	2.36	0.41
21:qP:96:MET:HG2	21:qP:148:GLU:HG3	2.02	0.41
20:rP:48:GLU:HG2	20:rP:49:ARG:N	2.36	0.41
20:rP:77:MET:HE2	20:rP:77:MET:HA	2.02	0.41
21:sP:72:MET:HA	21:sP:77:ARG:HB3	2.02	0.41
21:wP:72:MET:HG3	21:wP:72:MET:O	2.20	0.41
25:1P:15:GLN:HB3	25:1P:257:GLY:CA	2.49	0.41
25:1P:460:ILE:CG2	25:1P:467:GLN:HG3	2.50	0.41
27:3P:183:ARG:HD2	27:3P:245:GLU:O	2.20	0.41
7:DQ:133:ILE:O	7:DQ:137:GLN:HG2	2.20	0.41
6:EQ:67:LYS:HB2	6:EQ:67:LYS:HE2	1.87	0.41
7:FQ:127:SER:HB2	7:FQ:176:ILE:HD12	2.03	0.41
6:GQ:89:TYR:HB3	6:GQ:159:LEU:HD21	2.03	0.41
7:JQ:127:SER:HB2	7:JQ:176:ILE:HD12	2.03	0.41
7:LQ:35:ASN:ND2	29:LQ:201:PEB:OD	2.54	0.41
6:MR:2:LYS:O	6:MR:101:GLY:HA3	2.21	0.41
6:WR:65:TYR:O	6:WR:68:ASN:HB2	2.21	0.41
6:O1:140:VAL:HG12	6:O1:146:ALA:HA	2.01	0.41
29:T1:201:PEB:HHB1	29:T1:201:PEB:HAB1	1.91	0.41
8:e2:260:LEU:CD2	6:W7:133:TYR:OH	2.69	0.41
6:M2:9:VAL:HG21	7:N2:1:MET:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q2:37:ARG:NH2	6:Q2:98:VAL:O	2.51	0.41
6:S2:72:ALA:CB	29:S2:201:PEB:OA	2.69	0.41
6:U2:103:GLY:O	6:U2:107:GLU:HG2	2.20	0.41
7:V2:134:MET:O	7:V2:137:GLN:HG3	2.21	0.41
7:X2:106:GLU:O	7:X2:111:ASN:HB2	2.21	0.41
6:A3:42:GLU:OE2	7:B3:24:LEU:CB	2.69	0.41
7:B3:142:ILE:HD11	7:B3:165:VAL:CG1	2.51	0.41
7:D3:38:LEU:HD23	29:D3:202:PEB:C4D	2.50	0.41
7:J3:170:ASP:OD1	7:J3:171:ARG:N	2.54	0.41
7:N3:83:LEU:HD13	9:O3:402:ILE:HG21	2.02	0.41
10:d4:224:ARG:O	10:d4:228:THR:N	2.40	0.41
6:B4:113:ALA:C	6:B4:115:GLU:N	2.79	0.41
7:E4:33:ASP:HA	7:E4:36:LYS:HG2	2.03	0.41
6:F4:155:TYR:O	6:F4:158:TYR:HB3	2.21	0.41
7:I4:30:PHE:CE1	7:I4:37:ARG:NH1	2.87	0.41
7:I4:58:GLY:N	29:I4:203:PEB:CMD	2.84	0.41
7:I4:148:GLU:OE2	29:I4:203:PEB:OA	2.39	0.41
7:K4:117:TYR:HB3	7:K4:122:VAL:HB	2.03	0.41
7:K4:133:ILE:O	7:K4:137:GLN:HG2	2.20	0.41
6:L4:155:TYR:O	6:L4:158:TYR:HB3	2.21	0.41
7:M4:30:PHE:CE1	7:M4:37:ARG:NH1	2.88	0.41
7:M4:129:ARG:HH21	7:M4:133:ILE:N	2.18	0.41
7:I5:36:LYS:HA	29:I5:202:PEB:HHA1	2.03	0.41
7:L5:72:MEN:OD1	7:L5:72:MEN:N	2.50	0.41
7:A5:142:ILE:HD12	7:A5:142:ILE:HA	1.68	0.41
5:F7:75:THR:OG1	5:F7:78:ARG:CG	2.67	0.41
5:L7:135:LYS:O	5:L7:139:VAL:HG23	2.20	0.41
29:U7:201:PEB:HAB2	29:U7:201:PEB:HBB1	1.93	0.41
7:Y7:5:PHE:HD1	7:Y7:27:LEU:HD22	1.85	0.41
7:a7:8:VAL:HG21	7:a7:27:LEU:HD21	2.02	0.41
6:j7:81:LYS:HE3	29:j7:201:PEB:HAB2	2.03	0.41
7:k7:83:LEU:O	7:k7:87:GLU:HG3	2.20	0.41
7:A8:67:ILE:HD12	7:A8:67:ILE:HA	1.79	0.41
3:B9:130:ILE:HD12	3:B9:130:ILE:HA	1.79	0.41
4:E9:76:SER:O	13:kH:226:ALA:HB3	2.20	0.41
6:U9:75:ASN:HB3	7:TR:125:ASN:ND2	2.36	0.41
6:b9:81:LYS:HE3	29:b9:201:PEB:HAB2	2.03	0.41
7:g9:5:PHE:HD1	7:g9:27:LEU:HD22	1.85	0.41
6:l9:6:THR:O	6:l9:10:SER:HB3	2.21	0.41
7:BA:113:LEU:O	7:BA:116:THR:OG1	2.29	0.41
6:CA:91:ARG:HG2	6:CA:95:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GA:134:THR:HA	6:GA:137:ARG:HB3	2.02	0.41
7:HA:59:MET:HG3	7:HA:130:ALA:HB2	2.02	0.41
29:JA:201:PEB:CBC	14:MA:162:LEU:CD2	2.96	0.41
6:KA:91:ARG:HG2	6:KA:95:TYR:CZ	2.55	0.41
15:bB:341:ALA:HB3	15:bB:349:LYS:CE	2.40	0.41
16:AB:56:THR:O	16:AB:60:VAL:HG23	2.21	0.41
17:BB:178:MET:O	17:BB:182:GLU:HG2	2.21	0.41
7:HB:129:ARG:HD2	7:HB:129:ARG:HA	1.90	0.41
6:IB:91:ARG:HA	7:JB:18:TYR:CE2	2.55	0.41
7:LB:24:LEU:HD23	7:LB:24:LEU:HA	1.92	0.41
7:NB:61:CYS:O	7:NB:61:CYS:SG	2.79	0.41
7:NB:85:ASP:OD1	29:NB:201:PEB:HHC1	2.18	0.41
7:TB:19:VAL:HG13	7:TB:23:ASP:HB2	2.02	0.41
7:TB:25:GLN:N	7:TB:25:GLN:CD	2.79	0.41
6:UB:43:LYS:CE	14:MG:115:TYR:CD2	2.77	0.41
7:ZB:35:ASN:OD1	29:ZB:202:PEB:CMC	2.69	0.41
6:jB:102:THR:OG1	6:IB:17:ARG:NH2	2.45	0.41
6:IB:57:ASP:CG	6:IB:58:ALA:H	2.26	0.41
7:FC:24:LEU:H	7:FC:24:LEU:HG	1.59	0.41
6:KC:106:ASP:HA	6:KC:110:ILE:HB	2.01	0.41
18:MC:238:VAL:HG23	18:MC:239:GLY:N	2.36	0.41
10:dD:74:LEU:HA	10:dD:74:LEU:HD12	1.65	0.41
10:dD:197:THR:HA	29:MD:201:PEB:OD	2.20	0.41
6:BD:60:PHE:CD1	6:BD:67:LYS:NZ	2.88	0.41
7:CD:54:ASP:HB3	29:CD:203:PEB:HAA2	2.03	0.41
7:CD:135:LYS:CE	7:CD:169:PHE:HB2	2.50	0.41
7:ED:26:ALA:HA	7:ED:29:SER:OG	2.19	0.41
7:ED:143:THR:OG1	7:ED:145:THR:HG23	2.21	0.41
6:FD:81:LYS:NZ	29:FD:201:PEB:CHB	2.83	0.41
7:GD:143:THR:OG1	7:GD:145:THR:HG23	2.21	0.41
6:JD:81:LYS:HG3	29:JD:201:PEB:C3B	2.51	0.41
7:KD:135:LYS:CE	7:KD:169:PHE:HB2	2.50	0.41
29:KD:202:PEB:HMD1	6:LD:150:VAL:HG11	2.02	0.41
6:LD:89:TYR:O	6:LD:93:VAL:HG22	2.20	0.41
7:MD:37:ARG:HG2	7:MD:161:LEU:HD11	2.02	0.41
7:MD:38:LEU:HD23	7:MD:38:LEU:HA	1.64	0.41
7:MD:117:TYR:HA	7:MD:120:LEU:HB2	2.02	0.41
7:BE:148:GLU:OE1	29:BE:203:PEB:NA	2.53	0.41
6:EE:41:ALA:O	6:EE:45:ALA:CB	2.69	0.41
7:HE:129:ARG:NH1	7:HE:132:SER:OG	2.53	0.41
18:ME:55:VAL:HG13	18:ME:56:VAL:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DF:59:LEU:HD22	5:DF:130:ALA:HB2	2.02	0.41
5:HF:169:VAL:O	5:HF:169:VAL:CG1	2.69	0.41
5:NF:15:ARG:HG3	5:NF:17:GLU:HB2	2.03	0.41
7:RF:47:ASN:HD22	7:RF:149:ARG:HD3	1.86	0.41
7:YF:47:ASN:HD22	7:YF:149:ARG:HD3	1.86	0.41
7:BG:35:ASN:ND2	29:BG:202:PEB:OD	2.54	0.41
6:CG:18:PHE:CE1	7:DG:87:GLU:HB2	2.55	0.41
6:CG:33:ARG:O	6:CG:35:ALA:N	2.54	0.41
6:IG:89:TYR:HB3	6:IG:159:LEU:HD21	2.03	0.41
7:JG:35:ASN:ND2	29:JG:202:PEB:OD	2.54	0.41
7:JG:54:ASP:OD2	29:JG:203:PEB:NB	2.53	0.41
7:JG:150:LYS:HA	7:JG:150:LYS:HD3	1.84	0.41
6:KG:19:PRO:HG3	7:LG:94:SER:HB2	2.03	0.41
13:kH:148:THR:HG22	13:kH:149:PHE:O	2.20	0.41
1:XI:70:ALA:HA	1:XI:78:TYR:CZ	2.55	0.41
3:BI:78:ILE:HB	3:BI:82:ASP:HB2	2.02	0.41
4:CI:42:LYS:HB2	4:CI:42:LYS:HE2	1.94	0.41
4:GI:32:GLN:HE22	4:II:28:ASN:ND2	2.18	0.41
4:II:100:VAL:HG11	5:JI:27:LEU:CD1	2.51	0.41
6:OI:33:ARG:NH2	6:QI:28:GLN:OE1	2.53	0.41
6:OI:88:HIS:CD2	6:OI:91:ARG:HH21	2.39	0.41
6:QI:157:ASP:OD1	6:QI:157:ASP:N	2.53	0.41
7:aI:47:ASN:HD22	7:aI:149:ARG:HD3	1.86	0.41
6:dI:95:TYR:CG	7:eI:9:VAL:HG13	2.56	0.41
7:HJ:77:ARG:HH22	29:zJ:501:PEB:CGB	2.34	0.41
7:HJ:124:THR:O	7:HJ:128:ILE:CG1	2.68	0.41
7:PJ:37:ARG:O	7:PJ:41:VAL:HG23	2.20	0.41
7:RJ:114:LYS:HZ3	7:RJ:177:SER:C	2.29	0.41
6:SJ:67:LYS:NZ	26:2P:121:VAL:HG11	2.29	0.41
6:kJ:125:SER:HA	6:kJ:128:VAL:HG22	2.03	0.41
6:mJ:9:VAL:HG13	7:nJ:95:TYR:HB3	2.03	0.41
6:mJ:99:VAL:HG12	7:nJ:5:PHE:C	2.45	0.41
7:pJ:78:ARG:HD3	29:pJ:201:PEB:HMB3	2.02	0.41
7:pJ:158:CYS:HB3	29:pJ:202:PEB:HBA1	1.88	0.41
29:sJ:203:PEB:HBA1	7:vJ:158:CYS:HB3	1.88	0.41
7:vJ:75:THR:OG1	7:vJ:76:ASN:N	2.52	0.41
16:wJ:125:ARG:O	16:wJ:129:ILE:HG12	2.20	0.41
19:zJ:339:VAL:CG1	20:tP:63:PRO:HB2	2.50	0.41
1:XK:328:LEU:HD13	4:CK:113:ALA:C	2.46	0.41
1:XK:329:TYR:CZ	5:FK:84:ARG:HD3	2.56	0.41
3:BK:80:ILE:O	3:BK:84:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:65:TYR:CE2	4:MK:65:TYR:CE1	3.09	0.41
5:HK:63:GLN:HE21	5:HK:63:GLN:HB3	1.58	0.41
4:IK:137:LYS:C	4:IK:140:HIS:CD2	2.99	0.41
4:IK:143:SER:N	4:IK:147:ALA:HB2	2.36	0.41
5:NK:19:LEU:CD1	5:NK:23:GLN:HB3	2.49	0.41
7:aK:1:MET:HE3	7:aK:1:MET:HB2	1.89	0.41
7:cK:125:ASN:OD1	7:cK:126:SER:N	2.54	0.41
6:dK:98:VAL:HG21	7:eK:19:VAL:HB	2.02	0.41
7:mK:125:ASN:OD1	7:mK:126:SER:N	2.54	0.41
7:mK:173:GLY:O	7:mK:177:SER:OG	2.32	0.41
6:AL:125:SER:HA	6:AL:128:VAL:HG22	2.03	0.41
7:LL:92:TYR:HB3	7:LL:105:LEU:HD12	2.01	0.41
7:LL:125:ASN:ND2	19:zL:375:GLU:OE2	2.54	0.41
6:OL:94:ASN:HD21	7:PL:18:TYR:HB3	1.80	0.41
6:QL:139:CYS:HB3	29:QL:202:PEB:H3A1	1.72	0.41
7:RL:37:ARG:O	7:RL:41:VAL:HG23	2.20	0.41
6:aL:2:LYS:HD2	16:wL:193:GLY:HA3	2.02	0.41
6:aL:6:THR:HG22	7:bL:1:MET:HG3	2.02	0.41
6:aL:125:SER:HA	6:aL:128:VAL:HG22	2.03	0.41
6:iL:124:THR:HB	6:iL:163:LEU:HD12	1.98	0.41
29:kL:201:PEB:CGC	7:tL:67:ILE:HG21	2.50	0.41
7:lL:1:MET:HE3	7:lL:1:MET:HB2	1.80	0.41
6:uL:125:SER:HA	6:uL:128:VAL:HG22	2.03	0.41
7:vL:37:ARG:O	7:vL:41:VAL:HG23	2.20	0.41
16:xL:40:VAL:CG1	16:xL:41:ASN:H	2.32	0.41
29:JM:203:PEB:HBA2	29:JM:203:PEB:H2A1	1.86	0.41
7:NK:19:VAL:HG13	7:NK:23:ASP:HB2	2.02	0.41
6:SM:33:ARG:HH12	6:SM:147:GLN:HB3	1.86	0.41
7:BN:59:MET:HG3	7:BN:130:ALA:HB2	2.02	0.41
7:HN:134:MET:HA	7:HN:137:GLN:HE21	1.86	0.41
29:HN:203:PEB:HBA2	29:HN:203:PEB:H2A1	1.91	0.41
14:MN:151:LYS:HB3	14:MN:153:MET:HG2	2.02	0.41
7:BO:1:MET:HG2	7:BO:108:ARG:HH21	1.85	0.41
7:DO:24:LEU:HD23	7:DO:24:LEU:HA	1.95	0.41
7:DO:39:ASP:CB	29:DO:202:PEB:CMD	2.96	0.41
6:EO:88:HIS:CD2	6:EO:91:ARG:HH21	2.38	0.41
7:MO:101:ASP:OD1	7:MO:101:ASP:N	2.54	0.41
7:NO:83:LEU:HD12	9:OO:402:ILE:HG21	2.02	0.41
21:FP:1:MET:HE1	20:EP:8:ILE:CG2	2.51	0.41
20:EP:77:MET:HA	20:EP:77:MET:HE2	2.02	0.41
20:RP:68:PRO:HB3	20:gP:66:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YP:460:ILE:CG2	25:YP:467:GLN:HG3	2.50	0.41
25:YP:490:GLN:HA	25:YP:493:ASN:O	2.20	0.41
27:aP:183:ARG:HD2	27:aP:245:GLU:O	2.20	0.41
21:jP:18:TYR:CZ	25:1P:157:ARG:HB2	2.55	0.41
21:nP:27:LEU:HB2	22:xP:37:ILE:CD1	2.49	0.41
20:pP:77:MET:HA	20:pP:77:MET:HE2	2.02	0.41
21:sP:135:GLU:OE1	21:sP:135:GLU:N	2.54	0.41
25:1P:176:ARG:HD3	25:1P:226:GLU:OE2	2.21	0.41
25:1P:431:SER:O	25:1P:435:LYS:HD3	2.19	0.41
26:2P:127:VAL:O	26:2P:131:ARG:HG3	2.20	0.41
7:BQ:35:ASN:ND2	29:BQ:202:PEB:OD	2.54	0.41
7:BQ:133:ILE:O	7:BQ:137:GLN:HG2	2.20	0.41
6:CQ:18:PHE:CE1	7:DQ:87:GLU:HB2	2.55	0.41
6:CQ:25:GLU:OE1	6:CQ:25:GLU:N	2.52	0.41
7:FQ:25:GLN:HA	7:FQ:28:LYS:HD3	2.03	0.41
7:HQ:133:ILE:O	7:HQ:137:GLN:HG2	2.20	0.41
7:NR:54:ASP:HB3	7:NR:137:GLN:HE22	1.86	0.41
6:QR:43:LYS:HD3	6:QR:43:LYS:HA	1.77	0.41
7:RR:76:ASN:HD22	6:UR:113:ALA:HB2	1.86	0.41
6:SR:157:ASP:HA	6:SR:160:ILE:HB	2.02	0.41
29:VR:202:PEB:HMD3	29:VR:202:PEB:HHC1	1.77	0.41
7:XR:39:ASP:OD1	29:XR:202:PEB:HHC1	2.20	0.41
4:E1:53:THR:CB	6:Q7:76:GLN:HE22	2.34	0.41
6:O1:49:GLU:OE1	6:O1:49:GLU:N	2.45	0.41
6:Q1:157:ASP:HA	6:Q1:160:ILE:HB	2.02	0.41
7:R1:125:ASN:OD1	7:R1:126:SER:N	2.54	0.41
7:T1:151:MET:HE2	7:T1:151:MET:HB3	1.90	0.41
7:a1:173:GLY:O	7:a1:177:SER:OG	2.32	0.41
8:e2:125:ARG:CG	29:V2:201:PEB:O1C	2.68	0.41
8:e2:235:SER:HG	29:e2:401:PEB:CBD	2.33	0.41
8:e2:297:GLY:HA2	4:E7:89:GLY:HA3	2.01	0.41
7:N2:106:GLU:O	7:N2:111:ASN:HB2	2.20	0.41
7:P2:168:TYR:HD1	7:P2:171:ARG:HH21	1.69	0.41
6:Q2:103:GLY:O	6:Q2:107:GLU:HG2	2.20	0.41
7:R2:39:ASP:OD1	29:R2:202:PEB:HHC1	2.20	0.41
7:R2:125:ASN:OD1	7:R2:126:SER:N	2.52	0.41
7:T2:125:ASN:OD1	7:T2:126:SER:N	2.52	0.41
6:U2:2:LYS:O	6:U2:101:GLY:HA3	2.21	0.41
6:U2:26:SER:HB3	6:W2:26:SER:HB3	2.02	0.41
7:X2:149:ARG:HA	7:X2:149:ARG:HD2	1.88	0.41
6:C3:88:HIS:CD2	6:C3:91:ARG:HH21	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:38:LEU:HB3	29:D3:202:PEB:HMD1	1.99	0.41
7:H3:44:ILE:HD13	7:H3:44:ILE:HA	1.93	0.41
7:M3:87:GLU:OE1	7:M3:91:ARG:CD	2.66	0.41
6:B4:43:LYS:HD2	6:B4:43:LYS:HA	1.70	0.41
6:D4:60:PHE:CD1	6:D4:67:LYS:NZ	2.88	0.41
6:F4:106:ASP:O	6:F4:111:ALA:HB2	2.21	0.41
7:G4:51:MET:HE2	29:G4:203:PEB:H3A1	2.03	0.41
6:H4:106:ASP:O	6:H4:111:ALA:HB2	2.21	0.41
7:I4:8:VAL:H	7:I4:8:VAL:HG13	1.61	0.41
7:I4:91:ARG:HG2	7:I4:95:TYR:HE2	1.84	0.41
7:K4:36:LYS:NZ	29:K4:202:PEB:C2B	2.83	0.41
7:M4:50:CYS:HA	29:M4:203:PEB:HAA1	2.02	0.41
7:M4:77:ARG:NH2	7:M4:78:ARG:CG	2.83	0.41
7:I5:158:CYS:SG	29:I5:202:PEB:C4A	3.06	0.41
6:J5:36:ALA:HA	28:bP:237:PRO:HB3	2.02	0.41
7:L5:70:GLY:O	6:WB:61:ALA:HB2	2.21	0.41
7:C5:173:GLY:O	7:C5:177:SER:OG	2.33	0.41
2:A7:77:ALA:N	7:e7:115:GLU:OE2	2.52	0.41
3:B7:228:MET:HB3	3:B7:228:MET:HE2	1.97	0.41
5:J7:33:GLU:OE1	5:J7:36:GLN:NE2	2.54	0.41
5:J7:72:MEN:HD2	5:J7:72:MEN:HA	1.72	0.41
7:P7:6:SER:O	7:P7:10:VAL:HG23	2.20	0.41
6:W7:139:CYS:HB2	6:W7:142:ARG:HB3	2.02	0.41
6:d7:53:LYS:HA	6:d7:53:LYS:HD3	1.71	0.41
7:e7:5:PHE:HD1	7:e7:27:LEU:HD22	1.85	0.41
6:f7:81:LYS:HE3	29:f7:201:PEB:HAB2	2.03	0.41
6:h7:91:ARG:NH1	7:i7:16:ALA:HA	2.36	0.41
7:i7:83:LEU:O	7:i7:87:GLU:HG3	2.20	0.41
7:m7:6:SER:O	7:m7:10:VAL:HG23	2.20	0.41
7:m7:8:VAL:HG21	7:m7:27:LEU:HD21	2.02	0.41
7:F8:63:ASN:OD1	7:F8:63:ASN:N	2.54	0.41
7:K8:104:VAL:CG1	7:K8:108:ARG:HG2	2.45	0.41
7:L8:120:LEU:HD21	13:kH:283:LYS:NZ	2.35	0.41
2:A9:142:ARG:O	2:A9:146:ILE:HG12	2.20	0.41
3:B9:228:MET:SD	3:B9:228:MET:N	2.94	0.41
5:D9:33:GLU:OE1	5:D9:36:GLN:NE2	2.54	0.41
5:F9:8:VAL:HG21	5:F9:27:LEU:HD21	2.02	0.41
5:F9:15:ARG:HB2	5:F9:17:GLU:CD	2.45	0.41
4:K9:57:GLN:OE1	5:JI:145:THR:CG2	2.64	0.41
7:P9:6:SER:O	7:P9:10:VAL:HG23	2.20	0.41
6:U9:81:LYS:HE3	29:U9:201:PEB:HAB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z9:81:LYS:HE3	29:Z9:201:PEB:HAB2	2.03	0.41
7:a9:59:MET:HE2	7:a9:59:MET:HB3	1.96	0.41
7:LA:134:MET:HA	7:LA:137:GLN:HE21	1.86	0.41
14:MA:151:LYS:HB3	14:MA:153:MET:HG2	2.02	0.41
14:MA:154:ALA:HA	14:MA:157:ALA:HB3	2.02	0.41
17:BB:78:VAL:CG1	7:LB:115:GLU:HG2	2.50	0.41
6:GB:90:MET:CE	6:GB:134:THR:HG21	2.50	0.41
6:KB:3:SER:HB3	6:KB:99:VAL:HG12	2.03	0.41
7:VB:84:ARG:NH2	29:VB:201:PEB:C4C	2.84	0.41
7:eB:59:MET:HE2	7:eB:59:MET:HB3	1.89	0.41
7:iB:82:CYS:HA	29:iB:201:PEB:HAA1	1.85	0.41
7:mB:129:ARG:HD2	7:mB:129:ARG:HA	1.90	0.41
6:AC:41:ALA:O	6:AC:45:ALA:CB	2.69	0.41
6:GC:41:ALA:O	6:GC:45:ALA:CB	2.69	0.41
6:GC:44:LEU:O	6:GC:48:HIS:N	2.53	0.41
7:JC:125:ASN:OD1	7:JC:125:ASN:N	2.48	0.41
7:LC:30:PHE:HE1	7:LC:100:GLY:HA3	1.85	0.41
6:BD:33:ARG:HA	6:BD:33:ARG:HD2	1.78	0.41
6:BD:82:CYS:HB2	29:BD:201:PEB:C4A	2.50	0.41
6:BD:103:GLY:O	6:BD:107:GLU:HB2	2.21	0.41
7:CD:77:ARG:NH2	7:CD:78:ARG:CG	2.83	0.41
6:DD:81:LYS:NZ	29:DD:201:PEB:CHB	2.83	0.41
7:ED:33:ASP:HA	7:ED:36:LYS:HG2	2.03	0.41
6:FD:43:LYS:HE2	6:FD:143:ASP:O	2.20	0.41
6:FD:106:ASP:O	6:FD:111:ALA:HB2	2.21	0.41
7:GD:37:ARG:HG2	7:GD:161:LEU:HD11	2.02	0.41
6:HD:113:ALA:C	6:HD:115:GLU:N	2.78	0.41
7:ID:167:SER:O	7:ID:171:ARG:NH1	2.53	0.41
6:JD:42:GLU:HG2	6:JD:43:LYS:N	2.36	0.41
7:KD:117:TYR:HB3	7:KD:122:VAL:HB	2.03	0.41
6:LD:81:LYS:NZ	29:LD:201:PEB:CHB	2.83	0.41
6:IE:21:ASN:ND2	6:KE:100:GLY:O	2.54	0.41
18:ME:242:LYS:HD2	29:SI:202:PEB:CBB	2.49	0.41
1:XF:154:ARG:HH22	1:XF:161:HIS:HD2	1.68	0.41
5:JF:135:LYS:NZ	27:3P:67:GLY:O	2.39	0.41
6:ZF:88:HIS:CD2	6:ZF:91:ARG:HH21	2.39	0.41
6:dF:41:ALA:O	6:dF:94:ASN:ND2	2.54	0.41
6:fF:88:HIS:CD2	6:fF:91:ARG:HH21	2.39	0.41
7:BG:133:ILE:O	7:BG:137:GLN:HG2	2.20	0.41
6:CG:89:TYR:HB3	6:CG:159:LEU:HD21	2.03	0.41
6:IG:135:ARG:HE	6:IG:156:LEU:HD13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:JG:113:LEU:O	7:JG:116:THR:OG1	2.29	0.41
29:JG:202:PEB:HAC2	29:JG:202:PEB:HBB1	1.94	0.41
6:KG:135:ARG:HE	6:KG:156:LEU:HD13	1.85	0.41
7:LG:35:ASN:ND2	29:LG:202:PEB:OD	2.54	0.41
7:LG:54:ASP:OD2	29:LG:203:PEB:HBA2	2.20	0.41
7:LG:111:ASN:HA	14:MG:232:LYS:NZ	2.35	0.41
14:MG:180:TYR:CZ	14:MG:184:ARG:HD2	2.56	0.41
14:MG:228:GLN:HE21	14:MG:282:ALA:HB3	1.86	0.41
5:FI:169:VAL:O	5:FI:169:VAL:CG1	2.69	0.41
6:SI:103:GLY:O	6:SI:107:GLU:HB2	2.20	0.41
6:ZI:88:HIS:CD2	6:ZI:91:ARG:HH21	2.39	0.41
7:eI:47:ASN:HD22	7:eI:149:ARG:HD3	1.86	0.41
7:gI:47:ASN:HD22	7:gI:149:ARG:HD3	1.86	0.41
6:II:88:HIS:CD2	6:II:91:ARG:HH21	2.39	0.41
29:AJ:203:PEB:HBA1	7:DJ:158:CYS:HB3	1.88	0.41
29:GJ:202:PEB:HBA3	29:GJ:202:PEB:H2A1	1.91	0.41
7:LJ:125:ASN:ND2	19:zJ:375:GLU:OE2	2.54	0.41
7:NJ:129:ARG:CZ	7:bJ:15:LYS:HG2	2.50	0.41
7:PJ:1:MET:HE3	7:PJ:1:MET:HB2	1.80	0.41
7:VJ:37:ARG:O	7:VJ:41:VAL:HG23	2.20	0.41
6:WJ:72:ALA:O	6:WJ:78:LYS:CD	2.68	0.41
7:fJ:92:TYR:HB3	7:fJ:105:LEU:HD12	2.01	0.41
6:gJ:17:ARG:NH1	6:iJ:158:TYR:OH	2.42	0.41
7:lJ:37:ARG:O	7:lJ:41:VAL:HG23	2.20	0.41
6:oJ:18:PHE:CE1	7:pJ:91:ARG:HA	2.56	0.41
6:oJ:53:LYS:HA	6:oJ:53:LYS:HD3	1.90	0.41
7:tJ:78:ARG:HD3	29:tJ:201:PEB:HMB3	2.02	0.41
16:xJ:125:ARG:O	16:xJ:129:ILE:HG12	2.20	0.41
19:zJ:320:PHE:HZ	20:pP:86:ASP:HB3	1.86	0.41
5:DK:34:GLY:O	5:DK:38:LEU:HG	2.20	0.41
4:EK:139:SER:O	4:EK:139:SER:OG	2.23	0.41
5:FK:82:CYS:HB3	31:FK:1001:CYC:HBC1	1.87	0.41
5:LK:30:MET:HE3	5:LK:30:MET:HB2	1.71	0.41
5:NK:25:ASP:N	5:NK:25:ASP:OD1	2.53	0.41
7:PK:125:ASN:OD1	7:PK:126:SER:N	2.54	0.41
7:TK:3:ASP:OD1	7:TK:6:SER:N	2.44	0.41
6:lK:5:ILE:HG21	7:mK:99:ALA:HA	2.03	0.41
6:AL:17:ARG:NH1	6:CL:106:ASP:OD2	2.54	0.41
29:CL:202:PEB:HBA3	29:CL:202:PEB:H2A1	1.91	0.41
7:DL:37:ARG:O	7:DL:41:VAL:HG23	2.20	0.41
7:DL:69:PRO:HG2	7:LL:16:ALA:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FL:201:PEB:HMD3	29:FL:201:PEB:HHC1	1.96	0.41
7:LL:78:ARG:HD3	29:LL:201:PEB:HMB3	2.02	0.41
6:SL:125:SER:HA	6:SL:128:VAL:HG22	2.03	0.41
6:WL:125:SER:HA	6:WL:128:VAL:HG22	2.03	0.41
7:ZL:1:MET:HE3	7:ZL:1:MET:HB2	1.80	0.41
6:mL:53:LYS:HA	6:mL:53:LYS:HD3	1.90	0.41
7:pL:37:ARG:O	7:pL:41:VAL:HG23	2.20	0.41
7:rL:40:ALA:HB2	7:rL:161:LEU:HD13	2.01	0.41
29:sL:203:PEB:HBA1	7:vL:158:CYS:HB3	1.88	0.41
7:vL:78:ARG:HD3	29:vL:201:PEB:HMB3	2.02	0.41
17:BM:53:SER:O	17:BM:58:ARG:NH2	2.53	0.41
6:QM:116:VAL:HG12	7:VM:83:LEU:HD12	2.03	0.41
6:WM:30:ASN:HA	6:YM:25:GLU:OE2	2.21	0.41
29:XM:202:PEB:HBA2	29:XM:202:PEB:H2A1	1.86	0.41
7:kM:1:MET:HE3	7:kM:1:MET:HB2	1.89	0.41
6:lM:3:SER:HB3	6:lM:99:VAL:CG1	2.50	0.41
6:CN:84:ARG:NH2	29:CN:201:PEB:O1C	2.54	0.41
6:CN:134:THR:HA	6:CN:137:ARG:HB3	2.02	0.41
7:DN:134:MET:HA	7:DN:137:GLN:HE21	1.86	0.41
6:EN:37:ARG:NE	6:EN:97:LEU:O	2.52	0.41
6:KN:105:LEU:HD21	6:KN:159:LEU:HD12	2.03	0.41
14:MN:118:LYS:HA	14:MN:118:LYS:HD3	1.97	0.41
6:AO:88:HIS:CD2	6:AO:91:ARG:HH21	2.38	0.41
6:GO:24:LEU:HD13	29:HO:202:PEB:HMD2	2.03	0.41
6:IO:140:VAL:HB	6:IO:141:PRO:CD	2.50	0.41
7:LO:15:LYS:HB2	7:LO:15:LYS:HE2	1.78	0.41
9:OO:70:ARG:HD3	9:OO:71:PRO:HD2	2.02	0.41
21:FP:135:GLU:OE1	21:FP:135:GLU:N	2.54	0.41
21:LP:19:LEU:HD12	22:VP:40:ILE:HD12	2.02	0.41
20:PP:48:GLU:HG2	20:PP:49:ARG:N	2.36	0.41
21:SP:63:SER:HB2	27:aP:52:VAL:HB	2.02	0.41
23:WP:93:TYR:OH	25:YP:247:LEU:HD12	2.20	0.41
25:YP:22:MET:HE3	25:YP:22:MET:HB3	1.95	0.41
25:YP:241:SER:OG	25:YP:242:ASN:N	2.53	0.41
21:hP:135:GLU:OE1	21:hP:135:GLU:N	2.54	0.41
21:kP:33:THR:O	21:kP:37:ARG:HG3	2.21	0.41
21:kP:96:MET:HG2	21:kP:148:GLU:HG3	2.02	0.41
20:mP:98:ALA:HB2	21:qP:9:ILE:CD1	2.51	0.41
21:sP:96:MET:HG2	21:sP:148:GLU:HG3	2.02	0.41
20:vP:48:GLU:HG2	20:vP:49:ARG:N	2.36	0.41
25:1P:169:ASN:O	25:1P:173:VAL:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:4P:147:ILE:CD1	28:4P:165:SER:HB3	2.51	0.41
7:BQ:25:GLN:HA	7:BQ:28:LYS:HD3	2.03	0.41
7:DQ:127:SER:HB2	7:DQ:176:ILE:HD12	2.03	0.41
6:GQ:37:ARG:HH22	6:GQ:98:VAL:C	2.28	0.41
6:IQ:89:TYR:HB3	6:IQ:159:LEU:HD21	2.03	0.41
6:KQ:6:THR:O	6:KQ:10:SER:OG	2.37	0.41
6:KQ:99:VAL:HA	7:LQ:5:PHE:HB3	2.03	0.41
7:LQ:117:TYR:O	7:LQ:122:VAL:N	2.44	0.41
14:MQ:225:ARG:HH22	29:MQ:403:PEB:CGC	2.34	0.41
8:eR:256:SER:HB3	7:TR:115:GLU:CD	2.45	0.41
7:NR:106:GLU:O	7:NR:111:ASN:HB2	2.20	0.41
7:PR:67:ILE:O	7:PR:67:ILE:HG22	2.20	0.41
6:QR:77:GLU:O	6:QR:81:LYS:HG3	2.20	0.41
6:QR:97:LEU:HD21	6:QR:155:TYR:CD2	2.39	0.41
6:SR:103:GLY:O	6:SR:107:GLU:HG2	2.20	0.41
6:UR:103:GLY:O	6:UR:107:GLU:HG2	2.20	0.41
5:H1:38:LEU:C	29:H1:1002:PEB:HMD3	2.45	0.41
5:L1:18:PHE:HD1	5:L1:18:PHE:H	1.69	0.41
5:L1:30:MET:HE3	5:L1:30:MET:HB2	1.71	0.41
6:S1:49:GLU:OE1	6:S1:49:GLU:N	2.45	0.41
6:b1:49:GLU:OE1	6:b1:49:GLU:N	2.45	0.41
6:b1:157:ASP:HA	6:b1:160:ILE:HB	2.02	0.41
6:d1:49:GLU:OE1	6:d1:49:GLU:N	2.45	0.41
6:h1:74:GLU:H	6:h1:74:GLU:HG2	1.65	0.41
6:l1:5:ILE:HG21	7:m1:99:ALA:HA	2.03	0.41
6:l1:157:ASP:HA	6:l1:160:ILE:HB	2.02	0.41
7:m1:125:ASN:OD1	7:m1:126:SER:N	2.54	0.41
8:e2:295:ILE:HD12	4:E7:49:GLN:HB3	2.02	0.41
7:N2:114:LYS:O	7:N2:118:ILE:HG13	2.20	0.41
6:Q2:139:CYS:SG	29:Q2:202:PEB:HHA1	2.60	0.41
6:Q2:157:ASP:HA	6:Q2:160:ILE:HB	2.02	0.41
6:S2:118:ARG:HH11	6:U2:114:ARG:HE	1.57	0.41
6:W2:65:TYR:O	6:W2:68:ASN:HB2	2.21	0.41
6:I3:140:VAL:HB	6:I3:141:PRO:CD	2.50	0.41
10:d4:92:GLU:OE2	7:I4:77:ARG:NH1	2.53	0.41
10:d4:288:ARG:HB3	10:d4:298:TYR:CD1	2.55	0.41
7:C4:128:ILE:H	7:C4:128:ILE:HG12	1.60	0.41
7:C4:137:GLN:HG2	7:C4:137:GLN:H	1.51	0.41
6:D4:51:VAL:HG12	6:D4:137:ARG:NH1	2.31	0.41
6:D4:103:GLY:O	6:D4:107:GLU:HB2	2.21	0.41
6:F4:60:PHE:CD1	6:F4:67:LYS:NZ	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G4:7:ARG:O	7:G4:11:ASN:ND2	2.54	0.41
7:I4:33:ASP:HA	7:I4:36:LYS:HG2	2.03	0.41
7:I4:104:VAL:HG23	7:I4:108:ARG:CD	2.51	0.41
7:I4:117:TYR:HB3	7:I4:122:VAL:HB	2.03	0.41
7:I4:148:GLU:CD	29:I4:203:PEB:OA	2.63	0.41
6:J4:113:ALA:C	6:J4:115:GLU:N	2.78	0.41
7:K4:33:ASP:HA	7:K4:36:LYS:HG2	2.02	0.41
6:L4:89:TYR:O	6:L4:93:VAL:HG22	2.20	0.41
6:L4:103:GLY:O	6:L4:107:GLU:HB2	2.21	0.41
12:E5:162:ASN:HA	29:kI:203:PEB:CHB	2.50	0.41
12:E5:174:TRP:CB	6:ZI:83:TYR:HB2	2.51	0.41
2:A7:217:VAL:HG23	6:h7:14:ALA:HA	2.02	0.41
5:D7:115:GLU:HA	5:D7:118:GLN:HB2	2.02	0.41
5:F7:8:VAL:HG21	5:F7:27:LEU:HD21	2.02	0.41
5:F7:33:GLU:OE1	5:F7:36:GLN:NE2	2.54	0.41
7:V7:8:VAL:HG21	7:V7:27:LEU:HD21	2.02	0.41
7:Y7:6:SER:O	7:Y7:10:VAL:HG23	2.20	0.41
6:d7:81:LYS:HE3	29:d7:201:PEB:HAB2	2.03	0.41
6:h7:81:LYS:HE3	29:h7:201:PEB:HAB2	2.03	0.41
7:k7:53:SER:O	7:k7:57:SER:OG	2.28	0.41
7:m7:5:PHE:HD1	7:m7:27:LEU:HD22	1.85	0.41
7:K8:141:PHE:HZ	29:K8:203:PEB:HMA3	1.85	0.41
7:C8:141:PHE:HZ	29:C8:203:PEB:HMA3	1.85	0.41
12:E8:162:ASN:HD22	29:kF:203:PEB:NB	1.55	0.41
5:H9:33:GLU:OE1	5:H9:36:GLN:NE2	2.54	0.41
5:H9:135:LYS:O	5:H9:139:VAL:HG23	2.21	0.41
5:H9:137:ALA:HB2	13:kH:200:LEU:CD2	2.47	0.41
5:N9:115:GLU:HA	5:N9:118:GLN:HB2	2.02	0.41
7:R9:5:PHE:HD1	7:R9:27:LEU:HD22	1.85	0.41
7:R9:8:VAL:HG21	7:R9:27:LEU:HD21	2.02	0.41
7:V9:5:PHE:HD1	7:V9:27:LEU:HD22	1.85	0.41
6:Z9:53:LYS:HA	6:Z9:53:LYS:HD3	1.71	0.41
6:f9:81:LYS:HE3	29:f9:201:PEB:HAB2	2.03	0.41
7:k9:59:MET:HE2	7:k9:59:MET:HB3	1.97	0.41
6:AA:91:ARG:HG2	6:AA:95:TYR:CZ	2.55	0.41
7:BA:43:SER:O	7:BA:46:SER:OG	2.35	0.41
7:BA:134:MET:HA	7:BA:137:GLN:HE21	1.86	0.41
6:EA:134:THR:HA	6:EA:137:ARG:HB3	2.02	0.41
7:FA:43:SER:OG	7:FA:141:PHE:O	2.33	0.41
7:JA:134:MET:HA	7:JA:137:GLN:HE21	1.86	0.41
15:bB:118:ARG:NH2	15:bB:179:ASP:OD1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BB:61:GLN:HE21	7:DB:108:ARG:HA	1.85	0.41
6:MB:3:SER:HB3	6:MB:99:VAL:HG12	2.03	0.41
7:NB:170:ASP:CB	28:bP:183:GLY:O	2.64	0.41
6:SB:3:SER:HB3	6:SB:99:VAL:HG12	2.03	0.41
6:WB:30:ASN:HA	6:YB:25:GLU:OE2	2.21	0.41
6:YB:18:PHE:HD2	7:ZB:45:VAL:HG12	1.85	0.41
7:cB:33:ASP:CG	7:cB:36:LYS:HE2	2.46	0.41
6:dB:3:SER:HB3	6:dB:99:VAL:HG12	2.03	0.41
7:eB:33:ASP:CG	7:eB:36:LYS:HE2	2.46	0.41
6:fB:3:SER:HB3	6:fB:99:VAL:HG12	2.03	0.41
6:hB:135:ARG:HD2	6:hB:157:ASP:OD2	2.20	0.41
7:mB:59:MET:HE2	7:mB:59:MET:HB3	1.89	0.41
6:IC:2:LYS:HA	6:IC:2:LYS:HD3	1.84	0.41
6:KC:152:PHE:CZ	6:KC:156:LEU:CD2	2.79	0.41
7:LC:129:ARG:NH1	7:LC:132:SER:OG	2.53	0.41
18:MC:55:VAL:HG13	18:MC:56:VAL:H	1.86	0.41
7:CD:117:TYR:HB3	7:CD:122:VAL:HB	2.03	0.41
6:DD:33:ARG:HH12	6:DD:147:GLN:NE2	2.18	0.41
6:DD:89:TYR:O	6:DD:93:VAL:HG22	2.20	0.41
7:ED:39:ASP:OD1	7:ED:39:ASP:N	2.49	0.41
6:FD:155:TYR:O	6:FD:158:TYR:HB3	2.21	0.41
29:GD:202:PEB:O1B	29:GD:202:PEB:HAC1	2.21	0.41
6:HD:49:GLU:O	6:HD:52:VAL:HG22	2.20	0.41
29:ID:202:PEB:O1B	29:ID:202:PEB:HAC1	2.21	0.41
6:JD:106:ASP:O	6:JD:111:ALA:HB2	2.21	0.41
7:KD:75:THR:H	7:KD:78:ARG:HH21	1.68	0.41
6:LD:92:LEU:HD21	6:LD:108:TRP:HE3	1.84	0.41
5:DF:75:THR:CG2	5:DF:76:SER:N	2.77	0.41
4:EF:33:ARG:HH12	29:LF:1002:PEB:C3D	2.32	0.41
5:FF:59:LEU:HD22	5:FF:130:ALA:HB2	2.02	0.41
5:JF:111:ASN:CG	27:3P:124:TRP:CZ3	2.99	0.41
5:LF:59:LEU:HD22	5:LF:130:ALA:HB2	2.02	0.41
6:dF:103:GLY:O	6:dF:107:GLU:HB2	2.20	0.41
7:gF:47:ASN:HD22	7:gF:149:ARG:HD3	1.86	0.41
7:kF:47:ASN:HD22	7:kF:149:ARG:HD3	1.86	0.41
7:mF:3:ASP:OD1	7:mF:6:SER:OG	2.30	0.41
29:BG:201:PEB:HMD2	14:MG:122:PHE:HE2	1.85	0.41
7:DG:127:SER:HB2	7:DG:176:ILE:HD12	2.03	0.41
6:EG:89:TYR:HB3	6:EG:159:LEU:HD21	2.03	0.41
6:IG:43:LYS:HZ1	6:IG:144:MET:HG2	1.85	0.41
7:LG:25:GLN:HA	7:LG:28:LYS:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LG:113:LEU:HD13	14:MG:236:TYR:CE1	2.51	0.41
14:MG:158:ARG:O	14:MG:161:SER:OG	2.35	0.41
1:XI:276:ARG:HE	3:BI:39:SER:HA	1.86	0.41
3:BI:156:ASP:OD1	3:BI:156:ASP:N	2.47	0.41
5:HI:169:VAL:O	5:HI:169:VAL:CG1	2.69	0.41
6:QI:88:HIS:CD2	6:QI:91:ARG:HH21	2.39	0.41
6:SI:137:ARG:HE	6:SI:137:ARG:HB2	1.73	0.41
6:FI:142:ARG:HH11	6:FI:142:ARG:HD3	1.75	0.41
6:HI:88:HIS:CD2	6:HI:91:ARG:HH21	2.39	0.41
7:II:129:ARG:HA	7:II:129:ARG:HD2	1.92	0.41
6:CJ:106:ASP:OD1	6:CJ:158:TYR:OH	2.31	0.41
6:EJ:125:SER:HA	6:EJ:128:VAL:HG22	2.03	0.41
6:II:19:PRO:O	7:JJ:45:VAL:HG21	2.21	0.41
6:qJ:125:SER:HA	6:qJ:128:VAL:HG22	2.03	0.41
6:qJ:139:CYS:HB3	29:qJ:202:PEB:H3A1	1.72	0.41
17:yJ:126:MET:SD	17:yJ:232:GLN:NE2	2.93	0.41
4:EK:2:LYS:HE3	4:KK:22:THR:HG21	2.02	0.41
7:RK:37:ARG:O	7:RK:41:VAL:HG23	2.21	0.41
6:SK:139:CYS:HB3	29:SK:202:PEB:H3A1	1.88	0.41
29:TK:201:PEB:HAB1	29:TK:201:PEB:HBB1	1.91	0.41
7:VK:125:ASN:OD1	7:VK:126:SER:N	2.54	0.41
6:WK:33:ARG:HG3	6:ZK:25:GLU:HG2	2.02	0.41
7:IK:112:GLY:O	7:IK:116:THR:OG1	2.32	0.41
7:mK:37:ARG:O	7:mK:41:VAL:HG23	2.21	0.41
7:FL:37:ARG:HB2	7:FL:161:LEU:HD21	2.02	0.41
6:IL:138:LEU:CD2	6:IL:152:PHE:HD2	2.34	0.41
7:JL:30:PHE:CD1	7:JL:30:PHE:O	2.74	0.41
6:KL:125:SER:HA	6:KL:128:VAL:HG22	2.03	0.41
7:PL:37:ARG:O	7:PL:41:VAL:HG23	2.20	0.41
7:RL:78:ARG:HD3	29:RL:201:PEB:HMB3	2.02	0.41
7:TL:37:ARG:O	7:TL:41:VAL:HG23	2.20	0.41
6:YL:139:CYS:HB3	29:YL:202:PEB:H3A1	1.72	0.41
7:dL:70:GLY:C	7:vL:125:ASN:HD22	2.29	0.41
6:sL:125:SER:HA	6:sL:128:VAL:HG22	2.03	0.41
29:uL:202:PEB:HAC2	29:uL:202:PEB:HBB1	1.92	0.41
16:xL:102:ALA:HB1	16:xL:105:ARG:HD2	1.97	0.41
16:xL:113:SER:O	16:xL:117:LYS:N	2.50	0.41
17:BM:181:THR:CG2	29:BM:301:PEB:HBA2	2.49	0.41
6:GM:157:ASP:OD2	7:JM:46:SER:C	2.63	0.41
7:JM:33:ASP:CG	7:JM:36:LYS:HE2	2.46	0.41
6:OM:3:SER:HB3	6:OM:99:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:RM:203:PEB:HBA2	29:RM:203:PEB:H2A1	1.86	0.41
7:eM:61:CYS:O	7:eM:61:CYS:SG	2.79	0.41
6:fM:33:ARG:HH12	6:fM:147:GLN:HB3	1.86	0.41
7:mM:33:ASP:CG	7:mM:36:LYS:HE2	2.46	0.41
7:BN:125:ASN:OD1	7:BN:125:ASN:N	2.53	0.41
7:FN:147:THR:OG1	29:FN:203:PEB:OA	2.27	0.41
6:IN:134:THR:HA	6:IN:137:ARG:HB3	2.02	0.41
7:JN:134:MET:HA	7:JN:137:GLN:HE21	1.86	0.41
6:KN:91:ARG:HG2	6:KN:95:TYR:CZ	2.55	0.41
6:CO:42:GLU:O	6:CO:42:GLU:OE2	2.38	0.41
7:HO:1:MET:HG2	7:HO:108:ARG:HH21	1.85	0.41
9:OO:149:LEU:HD23	9:OO:149:LEU:HA	1.89	0.41
21:HP:14:VAL:HG21	23:WP:72:ASN:HA	2.02	0.41
20:KP:48:GLU:HG2	20:KP:49:ARG:N	2.36	0.41
20:NP:48:GLU:HG2	20:NP:49:ARG:N	2.36	0.41
21:OP:33:THR:O	21:OP:37:ARG:HG3	2.21	0.41
20:PP:32:SER:HB3	26:ZP:120:PHE:HA	2.03	0.41
21:dP:135:GLU:N	21:dP:135:GLU:OE1	2.54	0.41
21:dP:161:SER:HB2	23:yP:14:LEU:HD11	2.02	0.41
21:jP:58:LYS:HB3	21:jP:58:LYS:HE2	1.81	0.41
21:kP:105:ASP:OD2	21:kP:155:TYR:OH	2.34	0.41
21:oP:135:GLU:N	21:oP:135:GLU:OE1	2.54	0.41
20:pP:114:GLU:OE2	24:zP:58:LYS:NZ	2.50	0.41
21:qP:33:THR:O	21:qP:37:ARG:HG3	2.21	0.41
21:qP:62:TYR:CZ	22:xP:80:LEU:HD13	2.55	0.41
20:rP:43:LEU:HD23	20:rP:43:LEU:HA	1.91	0.41
20:tP:48:GLU:HG2	20:tP:49:ARG:N	2.36	0.41
25:1P:149:LEU:HD23	25:1P:149:LEU:HA	1.88	0.41
7:BQ:146:ALA:HA	29:BQ:203:PEB:CGB	2.48	0.41
6:IQ:98:VAL:O	7:JQ:5:PHE:HB3	2.21	0.41
7:JQ:164:GLU:O	7:JQ:167:SER:OG	2.36	0.41
6:MR:157:ASP:HA	6:MR:160:ILE:HB	2.02	0.41
7:NR:43:SER:O	7:NR:46:SER:OG	2.39	0.41
6:OR:103:GLY:O	6:OR:107:GLU:HG2	2.20	0.41
6:QR:135:ARG:C	6:QR:138:LEU:HD22	2.42	0.41
7:RR:27:LEU:O	7:RR:30:PHE:HB3	2.21	0.41
7:RR:125:ASN:OD1	7:RR:126:SER:N	2.52	0.41
6:SR:85:ASP:OD2	29:SR:201:PEB:NB	2.54	0.41
6:WR:81:LYS:HG2	6:WR:84:ARG:HH21	1.85	0.41
2:A1:222:LYS:NZ	6:l1:164:SER:OXT	2.49	0.41
31:C1:1001:CYC:HBB2	5:F1:76:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D1:39:ASP:N	29:D1:1002:PEB:CMD	2.84	0.41
4:G1:3:THR:O	4:G1:6:THR:OG1	2.36	0.41
4:G1:65:TYR:CE2	4:M1:65:TYR:CZ	3.09	0.41
4:I1:143:SER:N	4:I1:147:ALA:HB2	2.36	0.41
4:K1:139:SER:O	4:K1:139:SER:OG	2.35	0.41
5:L1:8:VAL:HG12	5:L1:19:LEU:HD21	2.02	0.41
29:P1:201:PEB:HHB1	29:P1:201:PEB:HAB1	1.91	0.41
7:V1:37:ARG:O	7:V1:41:VAL:HG23	2.21	0.41
6:W1:103:GLY:O	6:W1:107:GLU:HB2	2.21	0.41
6:d1:33:ARG:O	6:d1:37:ARG:HB2	2.21	0.41
6:f1:103:GLY:O	6:f1:107:GLU:HB2	2.21	0.41
6:h1:157:ASP:HA	6:h1:160:ILE:HB	2.02	0.41
7:k1:112:GLY:O	7:k1:116:THR:OG1	2.31	0.41
7:m1:129:ARG:HA	7:m1:129:ARG:HD2	1.87	0.41
8:e2:276:PHE:HA	7:T2:118:ILE:HG23	2.02	0.41
6:M2:142:ARG:HH12	29:M2:202:PEB:NB	1.52	0.41
7:N2:107:ASP:OD1	7:N2:108:ARG:N	2.52	0.41
6:O2:2:LYS:O	6:O2:101:GLY:HA3	2.21	0.41
6:O2:44:LEU:HA	6:O2:44:LEU:HD12	1.81	0.41
6:O2:115:GLU:CG	6:O2:118:ARG:NH2	2.84	0.41
6:O2:131:ILE:HG21	6:O2:160:ILE:HG13	2.03	0.41
29:O2:201:PEB:HNA	29:O2:201:PEB:CMB	2.33	0.41
6:Q2:2:LYS:O	6:Q2:101:GLY:HA3	2.21	0.41
6:Q2:77:GLU:O	6:Q2:81:LYS:HG3	2.20	0.41
7:R2:27:LEU:O	7:R2:30:PHE:HB3	2.21	0.41
7:R2:43:SER:O	7:R2:46:SER:OG	2.39	0.41
7:R2:106:GLU:O	7:R2:111:ASN:HB2	2.20	0.41
6:S2:139:CYS:SG	6:S2:139:CYS:O	2.79	0.41
7:T2:43:SER:O	7:T2:46:SER:OG	2.39	0.41
6:U2:44:LEU:HA	6:U2:44:LEU:HD12	1.81	0.41
7:V2:67:ILE:O	7:V2:67:ILE:HG22	2.20	0.41
6:W2:103:GLY:O	6:W2:107:GLU:HG2	2.20	0.41
6:A3:1:MET:O	6:A3:6:THR:OG1	2.31	0.41
6:I3:105:LEU:HD12	6:I3:105:LEU:HA	1.88	0.41
10:d4:279:GLN:N	10:d4:279:GLN:CD	2.78	0.41
10:d4:291:ILE:HG13	10:d4:292:VAL:N	2.36	0.41
10:d4:291:ILE:HG13	10:d4:292:VAL:H	1.84	0.41
6:B4:66:LEU:HA	6:B4:71:GLU:HG3	2.03	0.41
6:B4:91:ARG:NH1	6:B4:95:TYR:OH	2.53	0.41
6:B4:155:TYR:O	6:B4:158:TYR:HB3	2.21	0.41
7:C4:51:MET:HE1	7:C4:137:GLN:CB	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:137:GLN:HB3	29:C4:203:PEB:C1B	2.51	0.41
7:C4:143:THR:OG1	7:C4:145:THR:HG23	2.21	0.41
29:C4:202:PEB:O1B	29:C4:202:PEB:HAC1	2.20	0.41
6:D4:39:GLU:HA	6:D4:42:GLU:OE2	2.21	0.41
6:D4:89:TYR:O	6:D4:93:VAL:HG22	2.20	0.41
6:D4:92:LEU:HD21	6:D4:108:TRP:HE3	1.84	0.41
29:D4:201:PEB:HBC2	7:I4:79:MET:HE2	2.02	0.41
7:E4:58:GLY:HA2	29:E4:203:PEB:CAD	2.51	0.41
7:E4:143:THR:OG1	7:E4:145:THR:HG23	2.21	0.41
7:G4:117:TYR:HA	7:G4:120:LEU:HB2	2.02	0.41
7:G4:125:ASN:HA	7:G4:128:ILE:HD11	2.01	0.41
7:G4:167:SER:O	7:G4:171:ARG:NH1	2.53	0.41
6:H4:82:CYS:HB2	29:H4:201:PEB:C4A	2.50	0.41
7:I4:7:ARG:O	7:I4:11:ASN:ND2	2.54	0.41
6:J4:63:TYR:CD1	6:J4:65:TYR:HE1	2.39	0.41
7:K4:37:ARG:HG2	7:K4:161:LEU:HD11	2.02	0.41
7:K4:41:VAL:CG2	7:K4:97:LEU:HD21	2.51	0.41
7:K4:117:TYR:HA	7:K4:120:LEU:HB2	2.02	0.41
7:K4:143:THR:OG1	7:K4:145:THR:HG23	2.21	0.41
6:L4:113:ALA:C	6:L4:115:GLU:N	2.78	0.41
7:M4:124:THR:CG2	6:UF:69:PRO:HG2	2.51	0.41
6:J5:125:SER:HA	6:J5:128:VAL:HG22	2.03	0.41
6:J5:163:LEU:HD23	6:J5:163:LEU:HA	1.90	0.41
7:L5:125:ASN:ND2	6:UB:68:ASN:OD1	2.54	0.41
7:C5:141:PHE:HZ	29:C5:203:PEB:HMA3	1.85	0.41
12:E5:216:ALA:O	12:E5:237:GLN:N	2.47	0.41
13:k6:148:THR:HG22	13:k6:149:PHE:O	2.20	0.41
1:X7:159:LEU:HD13	1:X7:245:ILE:HG23	2.01	0.41
1:X7:263:THR:CB	5:D7:115:GLU:CG	2.99	0.41
2:A7:160:VAL:O	7:m7:111:ASN:ND2	2.54	0.41
3:B7:228:MET:HA	20:rP:56:GLN:CG	2.49	0.41
5:F7:63:GLN:NE2	7:a7:14:ALA:O	2.54	0.41
5:J7:14:ALA:CB	26:2P:61:ASN:HD22	2.34	0.41
5:J7:135:LYS:O	5:J7:139:VAL:HG23	2.20	0.41
6:O7:81:LYS:HE3	29:O7:201:PEB:HAB2	2.03	0.41
7:T7:24:LEU:HD23	7:T7:24:LEU:HA	1.93	0.41
7:V7:5:PHE:HD1	7:V7:27:LEU:HD22	1.85	0.41
6:b7:81:LYS:HE3	29:b7:201:PEB:HAB2	2.03	0.41
7:e7:8:VAL:HG21	7:e7:27:LEU:HD21	2.02	0.41
6:j7:22:SER:OG	6:l7:2:LYS:NZ	2.54	0.41
7:k7:129:ARG:HA	7:k7:129:ARG:HD2	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B8:63:ASN:OD1	7:B8:63:ASN:N	2.54	0.41
7:F8:157:ASP:OD2	7:F8:159:THR:OG1	2.32	0.41
7:I8:7:ARG:HA	28:4P:132:PRO:CB	2.51	0.41
7:I8:30:PHE:CD2	28:4P:132:PRO:HD3	2.51	0.41
7:I8:79:MET:HG2	15:bM:229:LEU:CG	2.51	0.41
7:I8:157:ASP:OD2	7:I8:159:THR:CG2	2.65	0.41
7:I8:158:CYS:CB	29:I8:202:PEB:CBA	2.93	0.41
7:K8:36:LYS:HA	29:K8:202:PEB:HHA1	2.03	0.41
7:A8:110:LEU:HD23	7:A8:110:LEU:HA	1.96	0.41
12:E8:63:ILE:HG12	12:E8:78:THR:HG22	2.03	0.41
12:E8:173:PHE:HE1	6:ZF:53:LYS:HE2	1.86	0.41
12:E8:216:ALA:O	12:E8:237:GLN:N	2.47	0.41
1:X9:322:LYS:O	1:X9:323:ALA:C	2.63	0.41
3:B9:84:ILE:HD13	3:B9:84:ILE:HA	1.91	0.41
5:F9:33:GLU:OE1	5:F9:36:GLN:NE2	2.54	0.41
5:H9:57:ARG:CG	13:kH:198:MET:SD	3.09	0.41
7:R9:110:LEU:HD11	7:R9:172:VAL:HG23	2.03	0.41
6:S9:56:GLY:HA3	6:S9:83:TYR:CE1	2.55	0.41
7:a9:147:THR:OG1	7:a9:148:GLU:OE1	2.37	0.41
6:d9:81:LYS:HE3	29:d9:201:PEB:HAB2	2.03	0.41
7:i9:6:SER:O	7:i9:10:VAL:HG23	2.20	0.41
7:m9:5:PHE:HD1	7:m9:27:LEU:HD22	1.85	0.41
7:m9:102:ALA:HB2	7:m9:168:TYR:HE1	1.86	0.41
6:AA:84:ARG:NH2	29:AA:201:PEB:O1C	2.54	0.41
7:BA:23:ASP:OD1	7:BA:23:ASP:N	2.50	0.41
6:CA:84:ARG:NH2	29:CA:201:PEB:O1C	2.54	0.41
7:DA:125:ASN:OD1	7:DA:125:ASN:N	2.53	0.41
7:DA:158:CYS:HB3	29:DA:202:PEB:HBA1	1.58	0.41
7:HA:21:GLY:HA2	7:HA:24:LEU:HB2	2.02	0.41
6:IA:84:ARG:NH2	29:IA:201:PEB:O1C	2.54	0.41
7:JA:110:LEU:HA	7:JA:113:LEU:HD23	2.02	0.41
7:LA:125:ASN:OD1	7:LA:125:ASN:N	2.53	0.41
14:MA:276:GLU:HA	14:MA:279:ASN:HD22	1.86	0.41
15:bB:318:THR:OG1	20:KP:83:ARG:NH1	2.48	0.41
15:bB:374:THR:HG21	21:MP:63:SER:CB	2.45	0.41
16:AB:238:MET:O	16:AB:242:ARG:NE	2.54	0.41
6:CB:33:ARG:HH12	6:CB:147:GLN:HB3	1.86	0.41
6:EB:43:LYS:HA	6:EB:43:LYS:HD3	1.91	0.41
7:FB:1:MET:HE3	7:FB:1:MET:HB2	1.89	0.41
7:FB:33:ASP:CG	7:FB:36:LYS:HE2	2.46	0.41
7:HB:19:VAL:HG13	7:HB:23:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IB:157:ASP:OD1	6:IB:157:ASP:O	2.39	0.41
7:JB:125:ASN:OD1	7:JB:125:ASN:C	2.59	0.41
7:NB:106:GLU:OE1	28:bP:176:LEU:HB2	2.21	0.41
6:QB:33:ARG:HH12	6:QB:147:GLN:HB3	1.86	0.41
7:RB:33:ASP:CG	7:RB:36:LYS:HE2	2.46	0.41
6:UB:53:LYS:CG	14:MG:100:THR:CB	2.56	0.41
6:WB:135:ARG:HD2	6:WB:157:ASP:OD2	2.20	0.41
7:XB:33:ASP:CG	7:XB:36:LYS:HE2	2.46	0.41
7:mB:33:ASP:CG	7:mB:36:LYS:HE2	2.46	0.41
6:AC:25:GLU:OE2	6:CC:33:ARG:CB	2.69	0.41
6:KC:157:ASP:OD1	6:KC:157:ASP:N	2.54	0.41
18:MC:265:LYS:HE2	18:MC:265:LYS:HB3	1.82	0.41
18:MC:300:VAL:CG1	6:gJ:49:GLU:CG	2.93	0.41
10:dD:54:VAL:HB	29:MD:201:PEB:O2C	2.20	0.41
10:dD:150:ILE:N	10:dD:154:GLU:OE2	2.49	0.41
6:BD:39:GLU:HA	6:BD:42:GLU:OE2	2.21	0.41
6:BD:106:ASP:O	6:BD:111:ALA:HB2	2.21	0.41
7:CD:167:SER:O	7:CD:171:ARG:NH1	2.53	0.41
6:DD:106:ASP:O	6:DD:111:ALA:HB2	2.21	0.41
6:DD:142:ARG:HE	6:DD:142:ARG:HB2	1.46	0.41
6:FD:81:LYS:HG3	29:FD:201:PEB:C3B	2.51	0.41
6:FD:81:LYS:CE	6:FD:84:ARG:HD3	2.27	0.41
6:FD:89:TYR:O	6:FD:93:VAL:HG22	2.20	0.41
6:FD:103:GLY:O	6:FD:107:GLU:HB2	2.21	0.41
7:GD:158:CYS:O	7:GD:161:LEU:HB2	2.21	0.41
6:HD:81:LYS:NZ	29:HD:201:PEB:CHB	2.83	0.41
6:HD:94:ASN:ND2	7:ID:18:TYR:HD1	2.17	0.41
6:HD:103:GLY:O	6:HD:107:GLU:HB2	2.21	0.41
6:HD:106:ASP:O	6:HD:111:ALA:HB2	2.21	0.41
6:HD:155:TYR:O	6:HD:158:TYR:HB3	2.21	0.41
7:ID:58:GLY:CA	29:ID:203:PEB:CMD	2.98	0.41
6:JD:49:GLU:O	6:JD:52:VAL:HG22	2.20	0.41
7:KD:37:ARG:HG2	7:KD:161:LEU:HD11	2.02	0.41
7:KD:117:TYR:HA	7:KD:120:LEU:HB2	2.02	0.41
7:KD:148:GLU:CD	29:KD:203:PEB:C1A	2.94	0.41
6:LD:44:LEU:HA	6:LD:44:LEU:HD12	1.80	0.41
6:LD:81:LYS:HG3	29:LD:201:PEB:C3B	2.51	0.41
7:MD:7:ARG:O	7:MD:11:ASN:ND2	2.54	0.41
29:MD:202:PEB:O1B	29:MD:202:PEB:HAC1	2.20	0.41
6:IE:157:ASP:OD1	6:IE:157:ASP:N	2.54	0.41
18:ME:56:VAL:CG2	18:ME:59:GLU:OE1	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ME:82:LEU:HD11	18:ME:120:ARG:NH2	2.34	0.41
18:ME:260:PRO:HB2	18:ME:261:VAL:H	1.64	0.41
1:XF:70:ALA:HA	1:XF:78:TYR:CZ	2.55	0.41
1:XF:192:ASP:OD1	1:XF:193:ASP:N	2.54	0.41
2:AF:73:ILE:HD12	2:AF:73:ILE:HA	1.86	0.41
3:BF:222:LEU:HG	3:BF:225:VAL:HG21	2.03	0.41
4:GF:13:ASP:OD1	5:HF:92:TYR:OH	2.29	0.41
4:GF:32:GLN:HE22	4:IF:28:ASN:ND2	2.18	0.41
7:VF:47:ASN:HD22	7:VF:149:ARG:HD3	1.86	0.41
6:WF:88:HIS:CD2	6:WF:91:ARG:HH21	2.39	0.41
7:cF:47:ASN:HD22	7:cF:149:ARG:HD3	1.86	0.41
7:eF:47:ASN:HD22	7:eF:149:ARG:HD3	1.86	0.41
6:fF:3:SER:N	6:fF:6:THR:OG1	2.52	0.41
6:hF:27:ILE:H	6:hF:27:ILE:HG12	1.76	0.41
7:iF:2:LEU:HD12	7:iF:2:LEU:HA	1.82	0.41
7:iF:3:ASP:OD1	7:iF:6:SER:OG	2.30	0.41
7:iF:47:ASN:HD22	7:iF:149:ARG:HD3	1.86	0.41
7:DG:25:GLN:HA	7:DG:28:LYS:HD3	2.03	0.41
6:EG:1:MET:HG2	14:MG:196:ASN:HD21	1.84	0.41
7:FG:58:GLY:C	7:FG:62:GLU:OE1	2.56	0.41
7:FG:141:PHE:HE2	29:FG:203:PEB:C4A	2.33	0.41
7:FG:164:GLU:O	7:FG:167:SER:OG	2.36	0.41
6:GG:89:TYR:HB3	6:GG:159:LEU:HD21	2.03	0.41
6:GG:111:ALA:HB2	29:MG:405:PEB:OA	2.21	0.41
6:GG:135:ARG:HE	6:GG:156:LEU:HD13	1.85	0.41
7:HG:25:GLN:HA	7:HG:28:LYS:HD3	2.03	0.41
7:JG:97:LEU:HD21	7:JG:165:VAL:HB	2.02	0.41
6:KG:37:ARG:HH22	6:KG:98:VAL:C	2.28	0.41
6:KG:99:VAL:HA	7:LG:5:PHE:HB3	2.03	0.41
7:LG:116:THR:CG2	14:MG:233:ALA:CB	2.99	0.41
14:MG:125:ARG:HG2	14:MG:129:MET:HE2	2.02	0.41
13:kH:174:VAL:O	13:kH:174:VAL:HG13	2.21	0.41
13:kH:267:LYS:HZ3	29:TR:203:PEB:CBD	2.34	0.41
1:XI:192:ASP:OD1	1:XI:193:ASP:N	2.54	0.41
5:JI:15:ARG:NH2	27:aP:94:PHE:HE1	2.16	0.41
7:RI:24:LEU:HD23	7:RI:24:LEU:HA	1.89	0.41
7:RI:47:ASN:HD22	7:RI:149:ARG:HD3	1.86	0.41
7:TI:47:ASN:HD22	7:TI:149:ARG:HD3	1.86	0.41
6:UI:88:HIS:CD2	6:UI:91:ARG:HH21	2.39	0.41
6:WI:88:HIS:CD2	6:WI:91:ARG:HH21	2.39	0.41
7:cI:135:LYS:NZ	7:cI:170:ASP:OD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:dI:103:GLY:O	6:dI:107:GLU:HB2	2.20	0.41
6:jI:88:HIS:CD2	6:jI:91:ARG:HH21	2.39	0.41
6:jI:157:ASP:OD1	6:jI:157:ASP:N	2.53	0.41
6:EJ:29:GLY:HA3	6:GJ:25:GLU:O	2.20	0.41
7:HJ:124:THR:O	7:HJ:128:ILE:HG12	2.20	0.41
6:IJ:125:SER:HA	6:IJ:128:VAL:HG22	2.03	0.41
7:JJ:30:PHE:CD1	7:JJ:30:PHE:O	2.74	0.41
29:OJ:202:PEB:HBA3	29:OJ:202:PEB:H2A1	1.91	0.41
7:PJ:31:ILE:O	7:PJ:31:ILE:HG22	2.21	0.41
7:TJ:19:VAL:CG1	7:TJ:23:ASP:OD1	2.57	0.41
7:VJ:78:ARG:HD3	29:VJ:201:PEB:HMB3	2.02	0.41
6:WJ:125:SER:HA	6:WJ:128:VAL:HG22	2.03	0.41
6:cJ:53:LYS:HA	6:cJ:53:LYS:HD3	1.90	0.41
6:mJ:43:LYS:HA	6:mJ:43:LYS:HD2	1.67	0.41
6:mJ:91:ARG:HH12	7:nJ:13:ASP:HA	1.85	0.41
7:nJ:37:ARG:O	7:nJ:41:VAL:HG23	2.20	0.41
7:rJ:78:ARG:HD3	29:rJ:201:PEB:HMB3	2.02	0.41
6:uJ:53:LYS:HA	6:uJ:53:LYS:HD3	1.90	0.41
29:xJ:301:PEB:NC	29:xJ:301:PEB:NB	2.69	0.41
19:zJ:90:GLU:HA	19:zJ:93:MET:HG2	2.03	0.41
1:XK:256:THR:HA	1:XK:257:PRO:HD3	1.89	0.41
3:BK:58:HIS:CD2	5:LK:84:ARG:HD3	2.55	0.41
4:CK:1:MET:HE2	4:CK:109:GLU:OE2	2.21	0.41
4:EK:21:ASN:ND2	4:EK:25:GLN:HE21	2.19	0.41
4:EK:130:ILE:HG23	4:EK:158:ILE:HG23	2.02	0.41
5:JK:33:GLU:OE1	5:JK:156:LEU:CG	2.69	0.41
5:NK:8:VAL:HG12	5:NK:19:LEU:HD21	2.03	0.41
7:PK:37:ARG:O	7:PK:41:VAL:HG23	2.21	0.41
7:PK:112:GLY:O	7:PK:116:THR:OG1	2.31	0.41
29:QK:202:PEB:HBA3	29:QK:202:PEB:H2A1	1.89	0.41
6:SK:49:GLU:OE1	6:SK:49:GLU:N	2.45	0.41
7:TK:37:ARG:O	7:TK:41:VAL:HG23	2.21	0.41
6:UK:140:VAL:HG12	6:UK:146:ALA:HA	2.01	0.41
7:YK:37:ARG:O	7:YK:41:VAL:HG23	2.21	0.41
7:aK:37:ARG:O	7:aK:41:VAL:HG23	2.21	0.41
7:aK:125:ASN:OD1	7:aK:126:SER:N	2.54	0.41
29:aK:201:PEB:HAB1	29:aK:201:PEB:HHB1	1.91	0.41
7:eK:37:ARG:O	7:eK:41:VAL:HG23	2.21	0.41
7:iK:1:MET:HE3	7:iK:1:MET:HB2	1.89	0.41
6:jK:99:VAL:CG2	7:kK:9:VAL:HG21	2.50	0.41
6:AL:137:ARG:NH1	29:AL:202:PEB:NA	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AL:202:PEB:HBA3	29:AL:202:PEB:H2A1	1.91	0.41
29:IL:203:PEB:HBA1	7:LL:158:CYS:HB3	1.88	0.41
6:KL:53:LYS:HA	6:KL:53:LYS:HD3	1.90	0.41
6:KL:73:GLY:CA	6:KL:78:LYS:CB	2.91	0.41
7:NL:40:ALA:HB2	7:NL:161:LEU:HD13	2.01	0.41
7:NL:72:MEN:HE22	7:NL:122:VAL:HA	2.03	0.41
7:PL:31:ILE:O	7:PL:31:ILE:HG22	2.21	0.41
6:UL:82:CYS:O	6:UL:86:VAL:HG23	2.20	0.41
7:VL:1:MET:HE3	7:VL:1:MET:HB2	1.80	0.41
29:WL:203:PEB:HBA3	29:WL:203:PEB:H2A1	1.91	0.41
29:cL:201:PEB:HAC2	29:cL:201:PEB:HHB1	1.92	0.41
7:dL:78:ARG:HD3	29:dL:201:PEB:HMB3	2.02	0.41
7:fL:129:ARG:HD2	7:fL:129:ARG:HA	1.82	0.41
6:gL:33:ARG:NE	6:iL:25:GLU:HA	2.29	0.41
7:hL:37:ARG:O	7:hL:41:VAL:HG23	2.20	0.41
6:iL:19:PRO:O	7:jL:45:VAL:HG21	2.21	0.41
6:kL:5:ILE:HG21	7:lL:99:ALA:HA	2.03	0.41
6:mL:9:VAL:HG13	7:nL:95:TYR:HB3	2.03	0.41
7:rL:72:MEN:HE22	7:rL:122:VAL:HA	2.03	0.41
6:sL:10:SER:HB2	16:xL:82:TYR:N	2.33	0.41
7:tL:72:MEN:HE22	7:tL:122:VAL:HA	2.03	0.41
16:wL:125:ARG:O	16:wL:129:ILE:HG12	2.20	0.41
17:yL:121:HIS:HA	30:yL:303:PUB:HMC3	2.03	0.41
15:bM:347:ALA:HB1	15:bM:348:GLN:H	1.74	0.41
15:bM:375:ASP:OD2	7:FM:64:PRO:HD2	2.20	0.41
16:AM:238:MET:O	16:AM:242:ARG:NE	2.54	0.41
7:FM:24:LEU:HD23	7:FM:24:LEU:HA	1.92	0.41
7:FM:33:ASP:CG	7:FM:36:LYS:HE2	2.46	0.41
6:GM:90:MET:CE	6:GM:134:THR:HG21	2.50	0.41
6:IM:157:ASP:OD1	6:IM:157:ASP:O	2.39	0.41
7:LM:125:ASN:CG	7:LM:126:SER:N	2.75	0.41
7:NM:33:ASP:CG	7:NM:36:LYS:HE2	2.46	0.41
6:OM:157:ASP:OD1	6:OM:157:ASP:O	2.39	0.41
6:QM:3:SER:HB3	6:QM:99:VAL:HG12	2.03	0.41
7:TM:25:GLN:NE2	7:TM:25:GLN:HA	2.36	0.41
7:TM:170:ASP:OD1	7:TM:170:ASP:N	2.53	0.41
7:XM:19:VAL:HG13	7:XM:23:ASP:HB2	2.02	0.41
6:YM:33:ARG:HH12	6:YM:147:GLN:HB3	1.86	0.41
6:YM:44:LEU:O	6:YM:48:HIS:HB3	2.21	0.41
7:ZM:35:ASN:OD1	29:ZM:202:PEB:CMC	2.69	0.41
6:aM:135:ARG:HD2	6:aM:157:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cM:33:ASP:CG	7:cM:36:LYS:HE2	2.46	0.41
7:gM:24:LEU:HD23	7:gM:24:LEU:HA	1.92	0.41
7:kM:33:ASP:CG	7:kM:36:LYS:HE2	2.46	0.41
6:lM:33:ARG:HH12	6:lM:147:GLN:HB3	1.86	0.41
7:mM:1:MET:HE3	7:mM:1:MET:HB2	1.89	0.41
29:mM:203:PEB:HBA2	29:mM:203:PEB:H2A1	1.86	0.41
7:BN:38:LEU:HA	7:BN:38:LEU:HD23	1.83	0.41
7:BN:43:SER:OG	7:BN:141:PHE:O	2.33	0.41
6:CN:28:GLN:NE2	29:DN:202:PEB:OD	2.54	0.41
6:CN:105:LEU:HD21	6:CN:159:LEU:HD12	2.03	0.41
7:DN:21:GLY:HA2	7:DN:24:LEU:HB2	2.02	0.41
7:DN:129:ARG:NH2	29:DN:203:PEB:O2C	2.54	0.41
7:DN:150:LYS:HA	7:DN:150:LYS:HD3	1.88	0.41
7:FN:108:ARG:HA	14:MN:203:GLN:OE1	2.20	0.41
7:HN:91:ARG:O	7:HN:94:SER:OG	2.36	0.41
7:HN:111:ASN:O	14:MN:298:ARG:NH1	2.53	0.41
7:HN:129:ARG:NH2	29:HN:203:PEB:O2C	2.54	0.41
6:IN:91:ARG:HG2	6:IN:95:TYR:CZ	2.55	0.41
7:LN:129:ARG:NH2	29:LN:203:PEB:O2C	2.54	0.41
14:MN:154:ALA:HA	14:MN:157:ALA:HB3	2.02	0.41
6:AO:42:GLU:OE2	7:BO:21:GLY:HA2	2.21	0.41
6:AO:42:GLU:OE2	7:BO:24:LEU:CB	2.69	0.41
7:JO:170:ASP:OD1	7:JO:171:ARG:N	2.54	0.41
7:MO:75:THR:HA	9:OO:348:LEU:HD11	2.03	0.41
29:MO:201:PEB:H2A1	29:MO:201:PEB:HBA2	1.85	0.41
9:OO:239:VAL:HG11	9:OO:247:ALA:HB2	2.01	0.41
21:DP:33:THR:O	21:DP:37:ARG:HG3	2.21	0.41
21:DP:105:ASP:OD2	21:DP:155:TYR:OH	2.34	0.41
21:DP:161:SER:HB2	23:WP:14:LEU:HD11	2.02	0.41
21:FP:24:VAL:HG12	21:FP:28:ARG:HE	1.86	0.41
21:FP:33:THR:O	21:FP:37:ARG:HG3	2.21	0.41
20:EP:48:GLU:HG2	20:EP:49:ARG:N	2.36	0.41
21:BP:24:VAL:HG12	21:BP:28:ARG:HE	1.86	0.41
21:BP:33:THR:O	21:BP:37:ARG:HG3	2.21	0.41
21:HP:17:LYS:HE2	25:YP:94:GLU:OE1	2.21	0.41
21:HP:135:GLU:N	21:HP:135:GLU:OE1	2.54	0.41
20:JP:48:GLU:HG2	20:JP:49:ARG:N	2.36	0.41
21:MP:72:MET:HG3	21:MP:72:MET:O	2.21	0.41
21:OP:135:GLU:N	21:OP:135:GLU:OE1	2.54	0.41
21:QP:105:ASP:OD2	21:QP:155:TYR:OH	2.34	0.41
20:RP:48:GLU:HG2	20:RP:49:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:SP:135:GLU:N	21:SP:135:GLU:OE1	2.54	0.41
28:bP:163:VAL:O	28:bP:170:PRO:HA	2.20	0.41
21:dP:69:GLY:HA2	25:1P:666:ASN:HB2	2.03	0.41
20:eP:77:MET:HE2	20:eP:77:MET:HA	2.02	0.41
21:fP:18:TYR:CE2	20:gP:90:ARG:HA	2.56	0.41
21:hP:33:THR:O	21:hP:37:ARG:HG3	2.21	0.41
21:jP:73:TYR:OH	20:lP:90:ARG:NH2	2.44	0.41
21:kP:135:GLU:OE1	21:kP:135:GLU:N	2.54	0.41
20:lP:135:ASP:N	20:lP:135:ASP:OD1	2.51	0.41
20:mP:48:GLU:HG2	20:mP:49:ARG:N	2.36	0.41
21:nP:33:THR:O	21:nP:37:ARG:HG3	2.21	0.41
21:oP:33:THR:O	21:oP:37:ARG:HG3	2.21	0.41
21:oP:96:MET:HE3	21:oP:96:MET:HB3	1.91	0.41
21:wP:135:GLU:N	21:wP:135:GLU:OE1	2.54	0.41
22:xP:71:ASN:ND2	22:xP:121:VAL:HA	2.26	0.41
28:4P:88:LEU:HD22	28:4P:138:LEU:HD21	2.03	0.41
6:AQ:1:MET:O	6:AQ:2:LYS:CE	2.69	0.41
7:BQ:127:SER:HB2	7:BQ:176:ILE:HD12	2.03	0.41
7:DQ:25:GLN:HA	7:DQ:28:LYS:HD3	2.03	0.41
7:FQ:35:ASN:ND2	29:FQ:202:PEB:OD	2.54	0.41
7:FQ:133:ILE:O	7:FQ:137:GLN:HG2	2.20	0.41
7:FQ:140:ALA:HB2	29:FQ:203:PEB:HAB2	2.02	0.41
7:HQ:97:LEU:HD21	7:HQ:165:VAL:HB	2.02	0.41
7:LQ:97:LEU:HD21	7:LQ:165:VAL:HB	2.02	0.41
14:MQ:220:LEU:O	14:MQ:222:SER:N	2.53	0.41
14:MQ:248:ARG:HH22	14:MQ:328:PRO:C	2.29	0.41
8:eR:198:ASP:O	8:eR:202:GLN:OE1	2.39	0.41
8:eR:294:LYS:HD2	8:eR:294:LYS:HA	1.80	0.41
7:NR:149:ARG:HA	7:NR:149:ARG:HD2	1.88	0.41
7:PR:27:LEU:O	7:PR:30:PHE:HB3	2.21	0.41
7:PR:43:SER:O	7:PR:46:SER:OG	2.39	0.41
7:PR:125:ASN:OD1	7:PR:126:SER:N	2.52	0.41
6:SR:27:ILE:HD13	7:TR:98:LEU:HD11	2.02	0.41
6:SR:139:CYS:SG	6:SR:139:CYS:O	2.79	0.41
7:TR:27:LEU:O	7:TR:30:PHE:HB3	2.21	0.41
7:VR:3:ASP:H	7:VR:6:SER:HG	1.62	0.41
7:XR:27:LEU:O	7:XR:30:PHE:HB3	2.21	0.41
7:XR:43:SER:O	7:XR:46:SER:OG	2.39	0.41
1:X1:221:PHE:CD2	7:T1:116:THR:HG23	2.56	0.41
3:B1:65:LYS:HE2	3:B1:65:LYS:HB2	1.88	0.41
3:B1:80:ILE:O	3:B1:84:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J1:39:ASP:OD2	29:J1:1002:PEB:CMD	2.69	0.41
6:O1:103:GLY:O	6:O1:107:GLU:HB2	2.21	0.41
7:V1:159:THR:C	14:MA:103:ARG:HG2	2.45	0.41
6:W1:54:GLU:OE2	29:W1:202:PEB:CAC	2.69	0.41
6:Z1:103:GLY:O	6:Z1:107:GLU:HB2	2.21	0.41
6:b1:5:ILE:CG2	7:c1:3:ASP:OD2	2.69	0.41
6:b1:103:GLY:O	6:b1:107:GLU:HB2	2.21	0.41
7:g1:125:ASN:OD1	7:g1:126:SER:N	2.54	0.41
6:j1:74:GLU:H	6:j1:74:GLU:HG2	1.65	0.41
8:e2:275:GLY:HA2	6:U7:69:PRO:O	2.21	0.41
7:N2:67:ILE:O	7:N2:67:ILE:HG22	2.20	0.41
6:O2:103:GLY:O	6:O2:107:GLU:HG2	2.20	0.41
6:O2:142:ARG:NH2	29:O2:202:PEB:NB	2.69	0.41
7:P2:47:ASN:O	7:P2:51:MET:HG3	2.21	0.41
7:R2:76:ASN:HD22	6:U2:113:ALA:HB2	1.86	0.41
6:S2:37:ARG:CB	6:S2:151:GLU:OE1	2.47	0.41
7:X2:77:ARG:HH11	7:X2:77:ARG:CG	2.34	0.41
29:D3:202:PEB:OD	29:D3:202:PEB:HBD1	2.21	0.41
10:d4:133:PRO:HB3	29:E4:201:PEB:C4D	2.51	0.41
6:B4:63:TYR:CD1	6:B4:65:TYR:HE1	2.39	0.41
7:C4:158:CYS:O	7:C4:161:LEU:HB2	2.21	0.41
6:D4:81:LYS:HG3	29:D4:201:PEB:C3B	2.51	0.41
29:E4:202:PEB:O1B	29:E4:202:PEB:HAC1	2.20	0.41
6:F4:34:SER:O	6:F4:38:LEU:HG	2.21	0.41
6:H4:42:GLU:HG2	6:H4:43:LYS:N	2.36	0.41
7:I4:75:THR:H	7:I4:78:ARG:HH21	1.68	0.41
7:I4:158:CYS:O	7:I4:161:LEU:HB2	2.21	0.41
29:I4:203:PEB:CMC	29:I4:203:PEB:ND	2.83	0.41
6:J4:39:GLU:HA	6:J4:42:GLU:OE2	2.21	0.41
6:J4:91:ARG:NH1	6:J4:95:TYR:OH	2.53	0.41
7:M4:128:ILE:H	7:M4:128:ILE:HG12	1.60	0.41
7:I5:11:ASN:HD22	7:I5:11:ASN:N	2.19	0.41
29:J5:202:PEB:HBA3	29:J5:202:PEB:H2A1	1.87	0.41
7:L5:51:MET:HE3	7:L5:90:LEU:HD21	2.03	0.41
7:L5:53:SER:HB3	13:k6:232:PHE:H	1.86	0.41
12:E5:36:VAL:HA	5:F9:169:VAL:HG21	2.02	0.41
13:k6:280:ARG:O	13:k6:283:LYS:HG2	2.21	0.41
2:A7:152:CYS:HB2	29:A7:304:PEB:H3A1	1.34	0.41
3:B7:17:VAL:HB	5:J7:84:ARG:HH22	1.86	0.41
5:J7:115:GLU:HA	5:J7:118:GLN:HB2	2.02	0.41
5:N7:135:LYS:O	5:N7:139:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P7:110:LEU:HD11	7:P7:172:VAL:HG23	2.03	0.41
7:Y7:147:THR:OG1	7:Y7:148:GLU:OE1	2.37	0.41
6:h7:24:LEU:HD22	7:i7:38:LEU:HD22	2.02	0.41
7:i7:53:SER:O	7:i7:57:SER:OG	2.28	0.41
7:k7:6:SER:O	7:k7:10:VAL:HG23	2.20	0.41
7:k7:147:THR:HB	7:G8:150:LYS:C	2.46	0.41
7:G8:63:ASN:OD1	7:G8:63:ASN:N	2.54	0.41
7:I8:91:ARG:HE	28:4P:118:LEU:HB2	1.69	0.41
6:J8:125:SER:HA	6:J8:128:VAL:HG22	2.03	0.41
7:A8:141:PHE:HZ	29:A8:203:PEB:HMA3	1.85	0.41
4:C9:6:THR:HG22	5:D9:1:MET:HG2	2.02	0.41
5:J9:115:GLU:HA	5:J9:118:GLN:HB2	2.02	0.41
4:M9:137:LYS:HB2	4:M9:154:ILE:HG21	2.03	0.41
6:j9:81:LYS:HE3	29:j9:201:PEB:HAB2	2.03	0.41
7:k9:5:PHE:HD1	7:k9:27:LEU:HD22	1.85	0.41
7:k9:8:VAL:HG21	7:k9:27:LEU:HD21	2.02	0.41
6:CA:28:GLN:NE2	29:DA:202:PEB:OD	2.54	0.41
6:CA:95:TYR:CZ	7:DA:13:ASP:OD1	2.73	0.41
29:FA:201:PEB:C2C	14:MA:174:ARG:HH12	2.32	0.41
15:bB:60:HIS:HD2	15:bB:267:THR:CG2	2.34	0.41
17:BB:61:GLN:HE22	7:DB:108:ARG:HG2	1.86	0.41
6:CB:135:ARG:HD2	6:CB:157:ASP:OD2	2.20	0.41
6:EB:147:GLN:H	6:EB:147:GLN:HG2	1.41	0.41
6:GB:3:SER:HB3	6:GB:99:VAL:HG12	2.03	0.41
7:TB:33:ASP:CG	7:TB:36:LYS:HE2	2.46	0.41
29:TB:203:PEB:HBA2	29:TB:203:PEB:H2A1	1.86	0.41
7:gB:7:ARG:HA	7:gB:7:ARG:HD3	1.90	0.41
7:BC:24:LEU:H	7:BC:24:LEU:HG	1.60	0.41
6:CC:144:MET:HE3	6:CC:144:MET:HB3	1.66	0.41
6:IC:152:PHE:CZ	6:IC:156:LEU:CD2	2.79	0.41
6:KC:41:ALA:O	6:KC:45:ALA:CB	2.69	0.41
7:LC:148:GLU:OE1	29:LC:203:PEB:NA	2.53	0.41
18:MC:46:SER:OG	18:MC:188:PHE:O	2.34	0.41
10:dD:76:LEU:HD12	10:dD:76:LEU:C	2.45	0.41
10:dD:127:PHE:HE1	10:dD:218:ASP:OD2	2.03	0.41
10:dD:270:ARG:H	10:dD:270:ARG:HG2	1.64	0.41
10:dD:333:SER:O	10:dD:337:ARG:HG3	2.21	0.41
6:BD:31:ILE:HG23	7:CD:31:ILE:HG23	2.03	0.41
6:BD:42:GLU:HG2	6:BD:43:LYS:N	2.36	0.41
7:CD:90:LEU:O	7:CD:93:VAL:HG13	2.21	0.41
7:ED:117:TYR:HB3	7:ED:122:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GD:51:MET:HE1	7:GD:137:GLN:CB	2.48	0.41
7:GD:90:LEU:O	7:GD:93:VAL:HG13	2.21	0.41
6:HD:63:TYR:CD1	6:HD:65:TYR:HE1	2.39	0.41
7:ID:83:LEU:HD23	7:ID:83:LEU:HA	1.76	0.41
7:KD:15:LYS:HB2	7:KD:15:LYS:HE2	1.64	0.41
7:KD:51:MET:CE	7:KD:141:PHE:CE2	3.01	0.41
6:GE:41:ALA:O	6:GE:45:ALA:CB	2.69	0.41
7:HE:105:LEU:HD21	7:HE:171:ARG:HD2	2.03	0.41
5:DF:15:ARG:HG3	5:DF:17:GLU:HB2	2.02	0.41
5:LF:15:ARG:HG3	5:LF:17:GLU:HB2	2.02	0.41
6:OF:103:GLY:O	6:OF:107:GLU:HB2	2.20	0.41
7:PF:47:ASN:HD22	7:PF:149:ARG:HD3	1.86	0.41
7:RF:173:GLY:O	7:RF:177:SER:OG	2.33	0.41
7:VF:3:ASP:OD1	7:VF:3:ASP:N	2.46	0.41
6:DF:88:HIS:CD2	6:DF:91:ARG:HH21	2.39	0.41
6:DF:157:ASP:OD1	6:DF:157:ASP:N	2.53	0.41
6:jF:25:GLU:OE2	6:lF:33:ARG:HB2	2.21	0.41
7:BG:25:GLN:HA	7:BG:28:LYS:HD3	2.03	0.41
7:BG:65:GLY:O	7:BG:68:SER:OG	2.29	0.41
7:FG:35:ASN:ND2	29:FG:202:PEB:OD	2.54	0.41
7:FG:136:ALA:C	29:FG:203:PEB:O1C	2.64	0.41
7:HG:35:ASN:ND2	29:HG:202:PEB:OD	2.54	0.41
7:LG:115:GLU:O	14:MG:233:ALA:HB2	2.20	0.41
7:LG:116:THR:HG23	14:MG:233:ALA:O	2.19	0.41
7:LG:127:SER:HB2	7:LG:176:ILE:HD12	2.03	0.41
3:BI:57:GLU:HB3	3:BI:58:HIS:HD2	1.85	0.41
4:EI:33:ARG:HD2	4:EI:33:ARG:HA	1.73	0.41
5:JI:65:GLN:NE2	20:PP:68:PRO:HA	2.36	0.41
4:MI:97:TYR:CE2	5:NI:13:ASP:HB2	2.56	0.41
7:PI:47:ASN:HD22	7:PI:149:ARG:HD3	1.86	0.41
6:SI:88:HIS:CD2	6:SI:91:ARG:HH21	2.39	0.41
7:VI:148:GLU:OE1	7:VI:148:GLU:N	2.52	0.41
6:WI:27:ILE:H	6:WI:27:ILE:HG12	1.76	0.41
6:bI:103:GLY:O	6:bI:107:GLU:HB2	2.20	0.41
6:dI:41:ALA:O	6:dI:94:ASN:ND2	2.54	0.41
7:FJ:72:MEN:HE22	7:FJ:122:VAL:HA	2.03	0.41
7:FJ:159:THR:CG2	25:YP:513:GLY:CA	2.95	0.41
6:IJ:72:ALA:CB	29:IJ:201:PEB:C1A	2.98	0.41
7:JJ:114:LYS:HE3	7:JJ:177:SER:OXT	2.20	0.41
7:LJ:24:LEU:HD23	7:LJ:24:LEU:HA	1.93	0.41
7:LJ:72:MEN:HE22	7:LJ:122:VAL:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LJ:78:ARG:HD3	29:LJ:201:PEB:HMB3	2.02	0.41
6:MJ:139:CYS:HB3	29:MJ:202:PEB:H3A1	1.72	0.41
6:OJ:15:ALA:HB2	30:yJ:302:PUB:HBB1	2.03	0.41
6:QJ:125:SER:HA	6:QJ:128:VAL:HG22	2.03	0.41
7:XJ:19:VAL:CG1	7:XJ:23:ASP:OD1	2.57	0.41
6:eJ:43:LYS:HA	6:eJ:43:LYS:HD2	1.67	0.41
6:iJ:125:SER:HA	6:iJ:128:VAL:HG22	2.03	0.41
7:nJ:129:ARG:HA	7:nJ:129:ARG:HD2	1.81	0.41
6:oJ:125:SER:HA	6:oJ:128:VAL:HG22	2.03	0.41
29:pJ:202:PEB:C3D	6:qJ:33:ARG:CZ	2.98	0.41
6:uJ:125:SER:HA	6:uJ:128:VAL:HG22	2.03	0.41
2:AK:48:ARG:NH2	7:VK:108:ARG:O	2.53	0.41
3:BK:65:LYS:HE2	3:BK:65:LYS:HB2	1.88	0.41
5:DK:39:ASP:N	29:DK:1002:PEB:CMD	2.84	0.41
4:GK:21:ASN:HD21	4:IK:152:ALA:HB3	1.81	0.41
5:HK:46:SER:O	4:IK:159:ASN:ND2	2.54	0.41
5:LK:18:PHE:CD1	5:LK:18:PHE:N	2.89	0.41
4:MK:44:LEU:HD23	4:MK:44:LEU:HA	1.93	0.41
6:SK:144:MET:HB3	6:SK:148:ALA:HB3	2.03	0.41
6:WK:54:GLU:OE2	29:WK:202:PEB:CAC	2.69	0.41
6:WK:139:CYS:HB3	29:WK:202:PEB:H3A1	1.88	0.41
6:WK:144:MET:HB3	6:WK:148:ALA:HB3	2.04	0.41
7:iK:37:ARG:O	7:iK:41:VAL:HG23	2.21	0.41
6:lK:103:GLY:O	6:lK:107:GLU:HB2	2.21	0.41
7:BL:124:THR:O	7:BL:127:SER:OG	2.26	0.41
7:BL:129:ARG:HA	7:BL:129:ARG:HD2	1.82	0.41
7:DL:124:THR:O	7:DL:127:SER:OG	2.26	0.41
6:IL:30:ASN:OD1	6:IL:37:ARG:NH2	2.44	0.41
6:QL:33:ARG:NH2	6:SL:24:LEU:O	2.50	0.41
6:QL:43:LYS:HD2	6:QL:43:LYS:HA	1.67	0.41
6:QL:74:GLU:N	6:QL:78:LYS:CE	2.31	0.41
7:TL:72:MEN:HE22	7:TL:122:VAL:HA	2.03	0.41
7:VL:72:MEN:HE22	7:VL:122:VAL:HA	2.03	0.41
6:YL:125:SER:HA	6:YL:128:VAL:HG22	2.03	0.41
7:bL:37:ARG:O	7:bL:41:VAL:HG23	2.20	0.41
7:hL:72:MEN:HE22	7:hL:122:VAL:HA	2.03	0.41
29:kL:202:PEB:HBA3	29:kL:202:PEB:H2A1	1.91	0.41
6:oL:125:SER:HA	6:oL:128:VAL:HG22	2.03	0.41
19:zL:340:PHE:CD1	20:gP:67:SER:CB	3.04	0.41
17:BM:61:GLN:HE22	7:DM:108:ARG:HG2	1.86	0.41
6:GM:139:CYS:HB2	6:GM:142:ARG:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KM:48:HIS:CD2	6:KM:48:HIS:C	2.98	0.41
7:LM:33:ASP:CG	7:LM:36:LYS:HE2	2.46	0.41
29:LM:203:PEB:HBA2	29:LM:203:PEB:H2A1	1.86	0.41
7:NM:61:CYS:O	7:NM:61:CYS:SG	2.79	0.41
29:TM:203:PEB:HBA2	29:TM:203:PEB:H2A1	1.86	0.41
7:VM:59:MET:HB3	7:VM:59:MET:HE2	1.89	0.41
6:AN:27:ILE:HG21	7:BN:38:LEU:HD21	2.02	0.41
7:FN:113:LEU:HD12	7:FN:114:LYS:N	2.36	0.41
6:GN:37:ARG:HD2	6:GN:97:LEU:O	2.20	0.41
14:MN:276:GLU:HA	14:MN:279:ASN:HD22	1.86	0.41
6:EO:21:ASN:OD1	29:FO:202:PEB:HBD2	2.21	0.41
6:IO:105:LEU:HD12	6:IO:105:LEU:HA	1.88	0.41
7:JO:15:LYS:HE2	7:JO:15:LYS:HB2	1.78	0.41
21:LP:135:GLU:N	21:LP:135:GLU:OE1	2.54	0.41
21:OP:58:LYS:HE2	21:OP:58:LYS:HB3	1.80	0.41
20:PP:12:ASP:HA	21:UP:94:TYR:OH	2.21	0.41
21:SP:33:THR:O	21:SP:37:ARG:HG3	2.21	0.41
20:TP:48:GLU:HG2	20:TP:49:ARG:N	2.36	0.41
22:VP:130:ILE:HG22	22:VP:157:ILE:HD11	2.03	0.41
20:cP:48:GLU:HG2	20:cP:49:ARG:N	2.36	0.41
21:fP:3:ASP:OD1	20:gP:5:THR:OG1	2.29	0.41
21:fP:33:THR:O	21:fP:37:ARG:HG3	2.21	0.41
21:hP:24:VAL:HG12	21:hP:28:ARG:HE	1.86	0.41
21:jP:135:GLU:OE1	21:jP:135:GLU:N	2.54	0.41
20:IP:77:MET:HA	20:IP:77:MET:HE2	2.02	0.41
21:nP:96:MET:HG2	21:nP:148:GLU:HG3	2.02	0.41
21:nP:135:GLU:OE1	21:nP:135:GLU:N	2.54	0.41
20:tP:77:MET:HE2	20:tP:77:MET:HA	2.02	0.41
21:uP:96:MET:HG2	21:uP:148:GLU:HG3	2.02	0.41
22:xP:43:LEU:HD23	22:xP:43:LEU:HA	1.81	0.41
6:CQ:135:ARG:HE	6:CQ:156:LEU:HD13	1.85	0.41
7:HQ:35:ASN:ND2	29:HQ:202:PEB:OD	2.54	0.41
7:JQ:25:GLN:HA	7:JQ:28:LYS:HD3	2.03	0.41
29:JQ:202:PEB:HHB1	29:JQ:202:PEB:HAC2	1.94	0.41
8:eR:224:PHE:HD2	7:TR:116:THR:CG2	2.32	0.41
6:OR:44:LEU:HD12	6:OR:44:LEU:HA	1.81	0.41
6:SR:2:LYS:O	6:SR:101:GLY:HA3	2.21	0.41
7:VR:114:LYS:O	7:VR:118:ILE:HG13	2.20	0.41
6:WR:18:PHE:CE1	7:XR:91:ARG:HA	2.56	0.41
6:WR:44:LEU:HD12	6:WR:44:LEU:HA	1.81	0.41
6:WR:92:LEU:CB	6:WR:105:LEU:CD2	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:WR:201:PEB:CMB	29:WR:201:PEB:HNA	2.33	0.41
3:B1:64:THR:HG23	3:B1:92:PRO:HB2	2.03	0.40
3:B1:99:ASN:OD1	5:J1:108:ARG:NH2	2.53	0.40
4:E1:5:ILE:HD12	5:F1:3:ASP:OD2	2.21	0.40
5:L1:18:PHE:N	5:L1:18:PHE:CD1	2.89	0.40
7:V1:125:ASN:OD1	7:V1:126:SER:N	2.54	0.40
6:b1:140:VAL:HG12	6:b1:146:ALA:HA	2.01	0.40
6:b1:144:MET:HB3	6:b1:148:ALA:HB3	2.03	0.40
7:c1:37:ARG:O	7:c1:41:VAL:HG23	2.21	0.40
7:c1:97:LEU:CD1	7:c1:165:VAL:HG23	2.40	0.40
6:d1:99:VAL:HG22	7:e1:9:VAL:HG21	2.03	0.40
6:l1:103:GLY:O	6:l1:107:GLU:HB2	2.21	0.40
6:Q2:67:LYS:N	6:Q2:67:LYS:HD2	2.36	0.40
7:T2:67:ILE:O	7:T2:67:ILE:HG22	2.20	0.40
9:O3:51:LYS:HA	9:O3:51:LYS:HD2	1.84	0.40
9:O3:70:ARG:HD3	9:O3:71:PRO:HD2	2.02	0.40
7:C4:77:ARG:HE	7:C4:77:ARG:HB3	1.07	0.40
6:D4:106:ASP:O	6:D4:111:ALA:HB2	2.21	0.40
6:D4:155:TYR:O	6:D4:158:TYR:HB3	2.21	0.40
7:E4:7:ARG:O	7:E4:11:ASN:ND2	2.54	0.40
6:F4:43:LYS:HE2	6:F4:143:ASP:O	2.20	0.40
6:F4:49:GLU:O	6:F4:52:VAL:HG22	2.20	0.40
6:H4:89:TYR:O	6:H4:93:VAL:HG22	2.20	0.40
6:L4:39:GLU:HA	6:L4:42:GLU:OE2	2.21	0.40
6:L4:66:LEU:HA	6:L4:71:GLU:HG3	2.03	0.40
6:L4:91:ARG:NH1	6:L4:95:TYR:OH	2.53	0.40
7:I5:161:LEU:HD12	29:I5:202:PEB:HBA1	2.03	0.40
7:L5:59:MET:HE2	7:L5:59:MET:HB3	1.84	0.40
11:D5:260:THR:HG23	7:TK:150:LYS:O	2.21	0.40
13:k6:153:LYS:NZ	29:V7:203:PEB:C1D	2.84	0.40
3:B7:7:LYS:NZ	3:B7:7:LYS:CB	2.81	0.40
3:B7:205:ARG:HD3	3:B7:206:PHE:H	1.85	0.40
5:L7:33:GLU:OE1	5:L7:36:GLN:NE2	2.54	0.40
5:L7:115:GLU:HA	5:L7:118:GLN:HB2	2.02	0.40
6:S7:81:LYS:HE3	29:S7:201:PEB:HAB2	2.03	0.40
6:Z7:18:PHE:CE2	7:a7:91:ARG:HA	2.56	0.40
6:Z7:81:LYS:HE3	29:Z7:201:PEB:HAB2	2.03	0.40
7:a7:6:SER:O	7:a7:10:VAL:HG23	2.20	0.40
7:a7:171:ARG:HD2	7:a7:171:ARG:HA	1.86	0.40
7:g7:3:ASP:OD1	7:g7:6:SER:OG	2.31	0.40
7:G8:51:MET:HE3	7:G8:90:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H8:157:ASP:OD2	7:H8:159:THR:OG1	2.32	0.40
7:I8:14:ALA:HB1	21:nP:123:ILE:H	1.83	0.40
29:J8:202:PEB:HBB1	29:J8:202:PEB:HBC1	2.04	0.40
7:L8:63:ASN:OD1	7:L8:63:ASN:N	2.54	0.40
7:A8:125:ASN:OD1	7:A8:125:ASN:N	2.55	0.40
1:X9:324:ASN:O	1:X9:325:LYS:CB	2.45	0.40
2:A9:160:VAL:O	7:m9:111:ASN:ND2	2.54	0.40
2:A9:233:LEU:HB3	29:c9:201:PEB:HBC2	2.03	0.40
4:C9:94:MET:HE1	5:D9:13:ASP:OD1	2.21	0.40
4:C9:122:PHE:HE2	5:F9:83:LEU:HD11	1.86	0.40
4:E9:104:THR:OG1	4:K9:17:ARG:NH2	2.49	0.40
4:E9:124:LEU:HD11	31:E9:1001:CYC:ND	2.36	0.40
5:J9:33:GLU:OE1	5:J9:36:GLN:NE2	2.54	0.40
5:N9:149:PRO:HG2	29:N9:1002:PEB:C4B	2.51	0.40
7:R9:6:SER:O	7:R9:10:VAL:HG23	2.20	0.40
6:S9:81:LYS:HE3	29:S9:201:PEB:HAB2	2.03	0.40
7:T9:6:SER:O	7:T9:10:VAL:HG23	2.20	0.40
6:b9:22:SER:OG	6:d9:2:LYS:NZ	2.54	0.40
7:c9:5:PHE:HD1	7:c9:27:LEU:HD22	1.85	0.40
6:h9:91:ARG:NH1	7:i9:16:ALA:HA	2.36	0.40
7:m9:6:SER:O	7:m9:10:VAL:HG23	2.20	0.40
6:AA:142:ARG:HE	6:AA:142:ARG:HB3	1.64	0.40
6:CA:139:CYS:N	6:CA:143:ASP:OD2	2.51	0.40
6:EA:82:CYS:HA	29:EA:201:PEB:HHA1	2.03	0.40
7:FA:129:ARG:NH2	29:FA:203:PEB:O2C	2.54	0.40
7:HA:129:ARG:NH2	29:HA:203:PEB:O2C	2.54	0.40
7:JA:129:ARG:NH2	29:JA:203:PEB:O2C	2.54	0.40
17:BB:184:THR:O	17:BB:186:ALA:N	2.54	0.40
7:LB:19:VAL:HG13	7:LB:23:ASP:HB2	2.02	0.40
6:QB:3:SER:HB3	6:QB:99:VAL:HG12	2.03	0.40
6:DB:9:VAL:HG13	7:eB:95:TYR:CG	2.55	0.40
7:gB:62:GLU:OE2	7:gB:129:ARG:HG3	2.21	0.40
7:iB:33:ASP:CG	7:iB:36:LYS:HE2	2.46	0.40
7:kB:33:ASP:CG	7:kB:36:LYS:HE2	2.46	0.40
7:BC:105:LEU:HD21	7:BC:171:ARG:HD2	2.04	0.40
6:EC:41:ALA:O	6:EC:45:ALA:CB	2.69	0.40
7:FC:91:ARG:HH12	18:MC:92:VAL:HG11	1.86	0.40
7:LC:105:LEU:HD21	7:LC:171:ARG:HD2	2.03	0.40
18:MC:166:ASP:O	18:MC:170:ASP:N	2.49	0.40
10:dD:112:GLU:OE1	10:dD:112:GLU:N	2.51	0.40
10:dD:224:ARG:O	10:dD:228:THR:N	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:dD:283:ARG:HD2	7:TI:148:GLU:HB3	2.03	0.40
10:dD:298:TYR:CE2	5:FI:17:GLU:CB	3.01	0.40
7:CD:50:CYS:HB3	29:CD:203:PEB:HMA1	2.03	0.40
6:DD:39:GLU:HA	6:DD:42:GLU:OE2	2.21	0.40
6:DD:63:TYR:CD1	6:DD:65:TYR:HE1	2.39	0.40
6:DD:66:LEU:HA	6:DD:71:GLU:HG3	2.03	0.40
6:FD:66:LEU:HA	6:FD:71:GLU:HG3	2.03	0.40
7:GD:22:SER:OG	7:GD:23:ASP:OD1	2.36	0.40
6:HD:32:GLN:CD	6:HD:32:GLN:H	2.17	0.40
7:ID:128:ILE:H	7:ID:128:ILE:HG12	1.60	0.40
6:JD:63:TYR:CD1	6:JD:65:TYR:HE1	2.39	0.40
7:KD:158:CYS:O	7:KD:161:LEU:HB2	2.21	0.40
6:LD:155:TYR:O	6:LD:158:TYR:HB3	2.21	0.40
7:MD:33:ASP:HA	7:MD:36:LYS:HG2	2.02	0.40
7:FE:105:LEU:HD21	7:FE:171:ARG:HD2	2.03	0.40
6:GE:157:ASP:OD1	6:GE:157:ASP:N	2.54	0.40
1:XF:217:PHE:O	1:XF:221:ARG:NH2	2.54	0.40
1:XF:262:TYR:CZ	1:XF:300:GLU:HB3	2.57	0.40
1:XF:350:ILE:HD13	1:XF:350:ILE:HA	1.93	0.40
2:AF:105:GLU:HG3	30:AF:303:PUB:HNB	1.85	0.40
3:BF:91:ALA:HB1	4:CF:15:GLN:OE1	2.21	0.40
5:HF:15:ARG:HG3	5:HF:17:GLU:HB2	2.02	0.40
5:JF:15:ARG:HG3	5:JF:17:GLU:HB2	2.02	0.40
4:MF:69:MET:HE3	4:MF:69:MET:HB2	1.87	0.40
6:OF:88:HIS:CD2	6:OF:91:ARG:HH21	2.39	0.40
7:RF:3:ASP:OD1	7:RF:6:SER:OG	2.30	0.40
6:jF:157:ASP:OD1	6:jF:157:ASP:N	2.53	0.40
6:CG:67:LYS:HB2	6:CG:67:LYS:HE2	1.88	0.40
6:EG:135:ARG:HE	6:EG:156:LEU:HD13	1.85	0.40
7:FG:127:SER:HB2	7:FG:176:ILE:HD12	2.03	0.40
7:HG:54:ASP:CG	29:HG:203:PEB:HBA2	2.46	0.40
6:IG:2:LYS:HZ1	14:MG:254:VAL:CB	2.28	0.40
7:JG:127:SER:HB2	7:JG:176:ILE:HD12	2.03	0.40
6:KG:89:TYR:HB3	6:KG:159:LEU:HD21	2.03	0.40
14:MG:103:ARG:HD2	14:MG:103:ARG:H	1.84	0.40
14:MG:275:LYS:HA	14:MG:275:LYS:HD2	1.85	0.40
2:AI:171:MET:HE2	2:AI:171:MET:HB2	2.01	0.40
3:BI:224:MET:HG3	5:JI:152:ASP:HA	2.04	0.40
5:NI:15:ARG:HG3	5:NI:17:GLU:HB2	2.03	0.40
7:cI:131:VAL:HA	7:cI:134:MET:HB2	2.02	0.40
6:dI:137:ARG:HE	6:dI:137:ARG:HB2	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:jI:137:ARG:HE	6:jI:137:ARG:HB2	1.73	0.40
7:kI:47:ASN:HD22	7:kI:149:ARG:HD3	1.86	0.40
7:HJ:60:ILE:HG23	7:HJ:67:ILE:HG12	2.03	0.40
7:NJ:108:ARG:CZ	16:wJ:41:ASN:CB	2.99	0.40
7:RJ:37:ARG:O	7:RJ:41:VAL:HG23	2.20	0.40
6:cJ:30:ASN:OD1	6:cJ:37:ARG:NH2	2.44	0.40
7:dJ:129:ARG:HD2	7:dJ:129:ARG:HA	1.82	0.40
6:eJ:97:LEU:HD11	6:eJ:152:PHE:HD1	1.87	0.40
29:eJ:201:PEB:HAC2	29:eJ:201:PEB:HHB1	1.92	0.40
7:fJ:78:ARG:HD3	29:fJ:201:PEB:HMB3	2.02	0.40
7:lJ:16:ALA:CB	7:tJ:69:PRO:HG2	2.39	0.40
7:lJ:108:ARG:CB	16:xJ:183:LYS:HZ1	2.32	0.40
7:nJ:78:ARG:HD3	29:nJ:201:PEB:HMB3	2.02	0.40
7:rJ:37:ARG:O	7:rJ:41:VAL:HG23	2.20	0.40
4:CK:114:GLY:O	4:CK:116:GLU:N	2.53	0.40
7:TK:125:ASN:OD1	7:TK:126:SER:N	2.54	0.40
6:ZK:103:GLY:O	6:ZK:107:GLU:HB2	2.21	0.40
6:jK:140:VAL:HG12	6:jK:146:ALA:HA	2.01	0.40
6:CL:70:GLY:N	6:CL:74:GLU:HG2	2.16	0.40
7:DL:72:MEN:HE22	7:DL:122:VAL:HA	2.03	0.40
7:DL:78:ARG:HD3	29:DL:201:PEB:HMB3	2.02	0.40
7:JL:72:MEN:HE22	7:JL:122:VAL:HA	2.03	0.40
7:LL:72:MEN:HE22	7:LL:122:VAL:HA	2.03	0.40
6:QL:30:ASN:OD1	6:QL:37:ARG:NH2	2.44	0.40
6:QL:125:SER:HA	6:QL:128:VAL:HG22	2.03	0.40
6:UL:97:LEU:HD11	6:UL:152:PHE:HD1	1.87	0.40
7:XL:112:GLY:O	7:XL:116:THR:OG1	2.32	0.40
6:sL:14:ALA:HA	16:xL:87:THR:HG22	2.03	0.40
17:yL:121:HIS:HA	30:yL:303:PUB:CMC	2.51	0.40
19:zL:215:THR:C	19:zL:217:ALA:N	2.55	0.40
15:bM:234:GLY:HA3	7:NM:77:ARG:HH22	1.86	0.40
6:KM:33:ARG:HH12	6:KM:147:GLN:HB3	1.86	0.40
7:TM:33:ASP:CG	7:TM:36:LYS:HE2	2.46	0.40
6:UM:33:ARG:HH12	6:UM:147:GLN:HB3	1.86	0.40
7:ZM:127:SER:HB3	7:ZM:176:ILE:HD12	2.02	0.40
6:aM:3:SER:HB3	6:aM:99:VAL:HG12	2.03	0.40
6:hM:3:SER:HB3	6:hM:99:VAL:HG12	2.03	0.40
6:hM:43:LYS:HD3	6:hM:43:LYS:HA	1.91	0.40
7:kM:83:LEU:HD23	7:kM:83:LEU:HA	1.78	0.40
7:BN:129:ARG:NH2	29:BN:203:PEB:O2C	2.54	0.40
29:BN:203:PEB:HBA2	29:BN:203:PEB:H2A1	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DN:14:ALA:HA	7:HN:69:PRO:HB2	2.03	0.40
7:DN:59:MET:HG3	7:DN:130:ALA:HB2	2.02	0.40
7:DN:83:LEU:CD1	6:KN:116:VAL:HA	2.50	0.40
7:DN:158:CYS:HB3	29:DN:202:PEB:HBA1	1.58	0.40
7:FN:129:ARG:NH2	29:FN:203:PEB:O2C	2.54	0.40
6:KN:90:MET:HB3	7:LN:18:TYR:OH	2.21	0.40
7:BO:46:SER:O	6:CO:161:ASN:ND2	2.45	0.40
6:GO:1:MET:SD	6:GO:1:MET:N	2.80	0.40
7:JO:78:ARG:HH21	7:JO:78:ARG:HD2	1.77	0.40
9:OO:208:LEU:HD23	9:OO:208:LEU:HA	1.97	0.40
9:OO:233:LEU:HD11	9:OO:236:ILE:HG22	2.03	0.40
20:TP:161:GLN:HB2	27:aP:175:THR:OG1	2.20	0.40
25:YP:169:ASN:O	25:YP:173:VAL:HG13	2.21	0.40
25:YP:343:PHE:HE2	25:YP:351:LEU:HD21	1.85	0.40
25:YP:386:PHE:HE1	25:YP:393:TYR:CE2	2.39	0.40
21:dP:24:VAL:HG12	21:dP:28:ARG:HE	1.86	0.40
21:hP:128:GLN:NE2	23:yP:72:ASN:O	2.53	0.40
21:kP:24:VAL:HG12	21:kP:28:ARG:HE	1.86	0.40
21:nP:9:ILE:HG23	22:xP:94:TYR:CG	2.56	0.40
21:oP:24:VAL:HG12	21:oP:28:ARG:HE	1.86	0.40
21:oP:96:MET:HG2	21:oP:148:GLU:HG3	2.02	0.40
21:wP:33:THR:O	21:wP:37:ARG:HG3	2.21	0.40
22:xP:82:LEU:O	22:xP:85:TYR:HB2	2.21	0.40
25:1P:454:PHE:CE2	25:1P:537:ARG:HD3	2.56	0.40
27:3P:250:VAL:O	27:3P:250:VAL:HG23	2.21	0.40
7:DQ:35:ASN:ND2	29:DQ:202:PEB:OD	2.54	0.40
29:FQ:202:PEB:HAC2	29:FQ:202:PEB:HHB1	1.94	0.40
7:HQ:54:ASP:OD1	29:HQ:203:PEB:C4C	2.69	0.40
7:LQ:57:SER:HA	7:LQ:60:ILE:HG21	2.01	0.40
7:LQ:150:LYS:HA	7:LQ:150:LYS:HD3	1.84	0.40
14:MQ:280:PHE:HA	14:MQ:283:ARG:CZ	2.51	0.40
8:eR:224:PHE:CD2	7:TR:116:THR:CG2	3.02	0.40
8:eR:258:ASN:HB3	8:eR:261:SER:OG	2.21	0.40
6:MR:37:ARG:CD	6:MR:151:GLU:OE1	2.58	0.40
6:MR:37:ARG:HH22	29:PR:201:PEB:HBD2	1.86	0.40
7:RR:85:ASP:OD2	29:RR:201:PEB:HHA1	2.22	0.40
7:XR:106:GLU:O	7:XR:111:ASN:HB2	2.20	0.40
2:A1:35:THR:OG1	2:A1:36:GLY:N	2.54	0.40
3:B1:208:PRO:HG2	3:B1:211:GLN:HG3	2.02	0.40
3:B1:219:ALA:HA	3:B1:222:LEU:HD12	2.02	0.40
5:L1:159:GLU:OE2	5:L1:163:TYR:OH	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O1:144:MET:HB3	6:O1:148:ALA:HB3	2.04	0.40
7:e1:124:THR:O	7:e1:127:SER:OG	2.23	0.40
7:g1:112:GLY:O	7:g1:116:THR:OG1	2.31	0.40
6:j1:103:GLY:O	6:j1:107:GLU:HB2	2.21	0.40
6:l1:98:VAL:HG21	7:m1:19:VAL:HB	2.04	0.40
8:e2:176:ALA:HB2	29:e2:402:PEB:O2C	2.21	0.40
8:e2:258:ASN:HB3	8:e2:261:SER:OG	2.21	0.40
6:M2:2:LYS:O	6:M2:101:GLY:HA3	2.21	0.40
29:M2:201:PEB:CMB	29:M2:201:PEB:HNA	2.33	0.40
7:N2:47:ASN:O	7:N2:51:MET:HG3	2.21	0.40
7:P2:129:ARG:HA	7:P2:129:ARG:HD2	1.82	0.40
6:Q2:9:VAL:CG1	7:R2:98:LEU:HD23	2.52	0.40
6:Q2:49:GLU:O	6:Q2:53:LYS:CG	2.51	0.40
6:S2:114:ARG:NH2	6:U2:118:ARG:HD3	2.36	0.40
7:T2:113:LEU:HD23	7:T2:176:ILE:CG2	2.51	0.40
6:U2:140:VAL:CG1	6:U2:146:ALA:HA	2.52	0.40
7:V2:106:GLU:O	7:V2:111:ASN:HB2	2.20	0.40
7:X2:27:LEU:O	7:X2:30:PHE:HB3	2.21	0.40
7:X2:47:ASN:O	7:X2:51:MET:HG3	2.22	0.40
7:B3:44:ILE:HD13	7:B3:44:ILE:HA	1.93	0.40
6:G3:105:LEU:HD12	6:G3:105:LEU:HA	1.88	0.40
7:M3:101:ASP:N	7:M3:101:ASP:OD1	2.54	0.40
10:d4:333:SER:O	10:d4:337:ARG:HG3	2.21	0.40
6:B4:39:GLU:HA	6:B4:42:GLU:OE2	2.21	0.40
7:C4:77:ARG:NH2	29:C4:201:PEB:CGB	2.80	0.40
7:E4:37:ARG:HG2	7:E4:161:LEU:HD11	2.02	0.40
7:I4:38:LEU:HD23	7:I4:38:LEU:HA	1.64	0.40
7:K4:51:MET:HE1	7:K4:137:GLN:CB	2.48	0.40
7:K4:158:CYS:O	7:K4:161:LEU:HB2	2.21	0.40
6:L4:1:MET:HB3	6:L4:2:LYS:H	1.69	0.40
7:B5:72:MEN:HE22	7:B5:72:MEN:HB3	1.94	0.40
7:F5:51:MET:HE3	7:F5:90:LEU:HD21	2.03	0.40
7:G5:51:MET:HE3	7:G5:90:LEU:HD21	2.03	0.40
7:I5:7:ARG:CZ	28:bP:138:LEU:CD2	2.93	0.40
7:I5:125:ASN:OD1	7:I5:125:ASN:N	2.55	0.40
7:L5:83:LEU:HB2	13:k6:229:PRO:HG3	2.03	0.40
12:E5:157:ILE:HD13	12:E5:157:ILE:HA	1.88	0.40
1:X7:218:ARG:HD3	1:X7:250:LEU:HD13	2.02	0.40
1:X7:242:TYR:O	1:X7:246:THR:OG1	2.31	0.40
3:B7:130:ILE:HD11	5:L7:84:ARG:HH22	1.86	0.40
3:B7:175:MET:HE3	3:B7:175:MET:HB2	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B7:222:LEU:HD22	20:rP:79:ALA:CB	2.51	0.40
4:M7:27:VAL:HG11	5:N7:38:LEU:HD21	2.04	0.40
7:Y7:53:SER:O	7:Y7:57:SER:OG	2.28	0.40
7:Y7:110:LEU:HD11	7:Y7:172:VAL:HG23	2.03	0.40
7:Y7:129:ARG:HA	7:Y7:129:ARG:HD2	1.92	0.40
6:b7:22:SER:OG	6:d7:2:LYS:NZ	2.54	0.40
7:i7:5:PHE:HD1	7:i7:27:LEU:HD22	1.85	0.40
6:l7:6:THR:O	6:l7:10:SER:HB3	2.21	0.40
6:J8:19:PRO:HG2	7:K8:45:VAL:HG11	2.03	0.40
12:E8:188:ALA:HB3	6:bF:64:ALA:HB1	1.92	0.40
1:X9:247:LYS:HB3	7:a9:111:ASN:HD21	1.86	0.40
5:L9:109:CYS:HA	31:L9:1001:CYC:HBB1	2.04	0.40
7:c9:83:LEU:HD22	6:f9:119:THR:HG21	2.04	0.40
6:CA:82:CYS:HA	29:CA:201:PEB:HHA1	2.04	0.40
7:HA:110:LEU:HA	7:HA:113:LEU:HD23	2.02	0.40
6:IA:82:CYS:HA	29:IA:201:PEB:HHA1	2.03	0.40
29:JA:201:PEB:CAC	14:MA:162:LEU:HD23	2.51	0.40
7:LA:59:MET:HG3	7:LA:130:ALA:HB2	2.02	0.40
6:KB:48:HIS:CD2	6:KB:48:HIS:C	2.98	0.40
7:NB:33:ASP:CG	7:NB:36:LYS:HE2	2.46	0.40
6:OB:3:SER:HB3	6:OB:99:VAL:HG12	2.03	0.40
6:fB:33:ARG:HH12	6:fB:147:GLN:HB3	1.86	0.40
6:fB:43:LYS:HA	6:fB:43:LYS:HD3	1.90	0.40
7:FC:105:LEU:HD21	7:FC:171:ARG:HD2	2.03	0.40
18:MC:220:THR:HB	18:MC:221:ALA:H	1.56	0.40
10:dD:153:ALA:O	10:dD:156:SER:OG	2.22	0.40
6:BD:113:ALA:C	6:BD:115:GLU:N	2.78	0.40
6:BD:118:ARG:CZ	6:LD:118:ARG:NH2	2.84	0.40
6:DD:103:GLY:O	6:DD:107:GLU:HB2	2.21	0.40
7:ED:117:TYR:HA	7:ED:120:LEU:HB2	2.02	0.40
6:FD:39:GLU:HA	6:FD:42:GLU:OE2	2.21	0.40
7:GD:38:LEU:HA	7:GD:38:LEU:HD23	1.64	0.40
7:GD:54:ASP:CB	29:GD:203:PEB:HAA2	2.51	0.40
7:GD:117:TYR:HA	7:GD:120:LEU:HB2	2.02	0.40
6:HD:81:LYS:HG3	29:HD:201:PEB:C3B	2.51	0.40
7:ID:143:THR:OG1	7:ID:145:THR:HG23	2.21	0.40
6:JD:44:LEU:HA	6:JD:44:LEU:HD12	1.80	0.40
6:JD:142:ARG:HE	6:JD:142:ARG:HB2	1.46	0.40
7:KD:8:VAL:H	7:KD:8:VAL:HG13	1.61	0.40
6:LD:113:ALA:C	6:LD:115:GLU:N	2.78	0.40
6:AE:25:GLU:OE2	6:CE:33:ARG:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:41:ALA:O	6:AE:45:ALA:CB	2.69	0.40
6:AE:89:TYR:HH	6:AE:117:TYR:HH	1.59	0.40
6:GE:81:LYS:NZ	29:GE:201:PEB:O2C	2.41	0.40
6:IE:135:ARG:HA	6:IE:156:LEU:CD1	2.51	0.40
6:KE:135:ARG:HA	6:KE:156:LEU:CD1	2.51	0.40
6:QF:88:HIS:CD2	6:QF:91:ARG:HH21	2.39	0.40
7:TF:68:SER:CB	7:TF:69:PRO:HD2	2.40	0.40
6:hF:88:HIS:CD2	6:hF:91:ARG:HH21	2.39	0.40
6:AG:157:ASP:HB2	7:DG:46:SER:CA	2.39	0.40
7:DG:92:TYR:HB3	7:DG:105:LEU:HD13	2.03	0.40
7:LG:92:TYR:HB3	7:LG:105:LEU:HD13	2.04	0.40
14:MG:248:ARG:HH22	14:MG:328:PRO:C	2.29	0.40
2:AI:210:GLY:HA3	6:fI:2:LYS:NZ	2.35	0.40
5:DI:15:ARG:HG3	5:DI:17:GLU:HB2	2.02	0.40
4:EI:69:MET:HE3	4:EI:69:MET:HB2	1.87	0.40
7:VI:47:ASN:HD22	7:VI:149:ARG:HD3	1.86	0.40
7:YI:47:ASN:HD22	7:YI:149:ARG:HD3	1.86	0.40
7:cI:47:ASN:HD22	7:cI:149:ARG:HD3	1.86	0.40
6:dI:88:HIS:CD2	6:dI:91:ARG:HH21	2.39	0.40
6:jI:140:VAL:HG12	6:jI:146:ALA:HA	2.04	0.40
6:CJ:53:LYS:HA	6:CJ:53:LYS:HD3	1.90	0.40
7:LJ:29:SER:HG	28:4P:231:ILE:CD1	2.14	0.40
6:OJ:125:SER:HA	6:OJ:128:VAL:HG22	2.03	0.40
6:SJ:33:ARG:NH2	6:SJ:33:ARG:O	2.55	0.40
7:VJ:155:ALA:HB3	7:NO:66:LEU:CD1	2.17	0.40
7:dJ:72:MEN:HE22	7:dJ:122:VAL:HA	2.03	0.40
6:gJ:68:ASN:CB	6:gJ:71:GLU:OE2	2.60	0.40
6:mJ:41:ALA:HB3	7:nJ:24:LEU:CD1	2.51	0.40
17:yJ:139:ALA:O	17:yJ:143:THR:OG1	2.32	0.40
2:AK:35:THR:OG1	2:AK:36:GLY:N	2.54	0.40
2:AK:244:ALA:HA	2:AK:247:THR:HG22	2.04	0.40
4:CK:12:ALA:O	4:CK:13:ASP:C	2.65	0.40
5:DK:75:THR:O	5:DK:79:MET:N	2.51	0.40
4:GK:45:THR:CG2	5:HK:18:PHE:CD2	2.99	0.40
6:QK:91:ARG:HA	7:RK:18:TYR:CE2	2.57	0.40
6:dK:144:MET:HB3	6:dK:148:ALA:HB3	2.03	0.40
7:gK:112:GLY:O	7:gK:116:THR:OG1	2.31	0.40
6:IK:49:GLU:OE1	6:IK:49:GLU:N	2.45	0.40
7:BL:3:ASP:N	7:BL:3:ASP:OD1	2.55	0.40
7:BL:37:ARG:O	7:BL:41:VAL:HG23	2.20	0.40
29:KL:201:PEB:HAC2	29:KL:201:PEB:HHB1	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LL:37:ARG:O	7:LL:41:VAL:HG23	2.20	0.40
7:NL:3:ASP:N	7:NL:3:ASP:OD1	2.55	0.40
7:PL:72:MEN:HE22	7:PL:122:VAL:HA	2.03	0.40
7:RL:3:ASP:N	7:RL:3:ASP:OD1	2.55	0.40
29:UL:201:PEB:HAC2	29:UL:201:PEB:HHB1	1.92	0.40
7:ZL:72:MEN:HE22	7:ZL:122:VAL:HA	2.03	0.40
6:aL:97:LEU:HD11	6:aL:152:PHE:HD1	1.87	0.40
7:bL:72:MEN:HE22	7:bL:122:VAL:HA	2.03	0.40
6:cL:97:LEU:HD11	6:cL:152:PHE:HD1	1.87	0.40
7:dL:37:ARG:O	7:dL:41:VAL:HG23	2.20	0.40
7:fL:72:MEN:HE22	7:fL:122:VAL:HA	2.03	0.40
6:gL:125:SER:HA	6:gL:128:VAL:HG22	2.03	0.40
6:kL:111:ALA:O	7:tL:77:ARG:HA	2.21	0.40
7:lL:3:ASP:OD1	7:lL:3:ASP:N	2.55	0.40
7:pL:72:MEN:HE22	7:pL:122:VAL:HA	2.03	0.40
29:vL:202:PEB:HBA2	29:vL:202:PEB:H2A1	1.91	0.40
19:zL:323:MET:HE2	20:NP:48:GLU:O	2.21	0.40
19:zL:330:ARG:HH12	20:RP:61:ARG:HD3	1.83	0.40
17:BM:178:MET:O	17:BM:182:GLU:HG2	2.21	0.40
7:DM:33:ASP:CG	7:DM:36:LYS:HE2	2.46	0.40
7:FM:19:VAL:HG13	7:FM:23:ASP:HB2	2.01	0.40
6:KM:19:PRO:HD3	7:LM:95:TYR:CE1	2.56	0.40
6:KM:54:GLU:HG2	6:KM:133:TYR:CE2	2.30	0.40
7:LM:24:LEU:HD23	7:LM:24:LEU:HA	1.92	0.40
6:MM:53:LYS:HA	6:MM:53:LYS:HD3	1.94	0.40
7:PM:33:ASP:CG	7:PM:36:LYS:HE2	2.46	0.40
7:RM:50:CYS:HB3	29:RM:203:PEB:H3A1	1.99	0.40
7:TM:129:ARG:HA	7:TM:129:ARG:HD2	1.90	0.40
7:VM:19:VAL:HG13	7:VM:23:ASP:HB2	2.02	0.40
6:fM:99:VAL:HG22	7:gM:6:SER:HA	2.03	0.40
7:gM:57:SER:O	7:gM:61:CYS:SG	2.59	0.40
6:jM:53:LYS:O	6:jM:57:ASP:CG	2.64	0.40
6:lM:3:SER:HB3	6:lM:99:VAL:HG12	2.03	0.40
7:FN:67:ILE:HD12	7:FN:67:ILE:HA	1.91	0.40
7:FN:91:ARG:O	7:FN:94:SER:OG	2.36	0.40
7:HN:59:MET:HB3	7:HN:59:MET:HE3	1.89	0.40
7:JN:20:GLY:O	7:JN:22:SER:N	2.53	0.40
7:BO:76:ASN:ND2	6:EO:109:GLY:O	2.51	0.40
7:BO:142:ILE:HD11	7:BO:165:VAL:CG1	2.51	0.40
6:EO:105:LEU:HD12	6:EO:105:LEU:HA	1.90	0.40
6:EO:106:ASP:CG	6:EO:107:GLU:N	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FO:107:ASP:HA	7:FO:111:ASN:HB2	2.02	0.40
7:NO:87:GLU:OE1	7:NO:91:ARG:CD	2.67	0.40
20:CP:107:ILE:HD11	23:WP:173:LEU:CD1	2.51	0.40
20:GP:25:ARG:HE	20:GP:25:ARG:HA	1.87	0.40
21:HP:28:ARG:NH1	25:YP:55:GLU:OE1	2.50	0.40
21:IP:33:THR:O	21:IP:37:ARG:HG3	2.21	0.40
21:IP:135:GLU:N	21:IP:135:GLU:OE1	2.54	0.40
20:PP:32:SER:HB2	26:ZP:120:PHE:CG	2.56	0.40
20:PP:77:MET:HE2	20:PP:77:MET:HA	2.02	0.40
23:WP:2:GLN:O	23:WP:106:ASN:ND2	2.50	0.40
27:aP:101:ASP:OD1	27:aP:102:PRO:HD2	2.21	0.40
20:cP:77:MET:HE2	20:cP:77:MET:HA	2.02	0.40
20:iP:97:ILE:HD12	23:yP:19:LEU:CD1	2.51	0.40
21:jP:107:ARG:HE	25:1P:29:GLU:CD	2.30	0.40
21:jP:117:ASN:HD22	25:1P:462:THR:CG2	2.33	0.40
20:mP:77:MET:HE2	20:mP:77:MET:HA	2.02	0.40
21:qP:135:GLU:N	21:qP:135:GLU:OE1	2.54	0.40
20:rP:108:GLY:HA2	21:uP:75:THR:HG23	2.02	0.40
21:sP:18:TYR:HB3	20:tP:44:THR:HG23	2.01	0.40
20:vP:77:MET:HA	20:vP:77:MET:HE2	2.02	0.40
28:4P:163:VAL:O	28:4P:170:PRO:HA	2.20	0.40
6:AQ:158:TYR:CE1	6:CQ:20:SER:HB2	2.57	0.40
6:CQ:43:LYS:HD3	29:CQ:202:PEB:HAD1	2.04	0.40
6:CQ:157:ASP:OD1	6:CQ:158:TYR:N	2.55	0.40
6:KQ:43:LYS:HD3	29:KQ:202:PEB:HAD1	2.04	0.40
6:KQ:122:LEU:HA	6:KQ:123:PRO:HD3	1.98	0.40
6:MR:139:CYS:SG	6:MR:139:CYS:O	2.79	0.40
7:NR:47:ASN:O	7:NR:51:MET:HG3	2.21	0.40
6:QR:9:VAL:CG1	7:RR:98:LEU:HD23	2.51	0.40
6:QR:27:ILE:HD13	7:RR:98:LEU:HD11	2.01	0.40
7:VR:49:SER:OG	6:WR:161:ASN:OD1	2.31	0.40
7:VR:106:GLU:O	7:VR:111:ASN:HB2	2.20	0.40
7:VR:125:ASN:OD1	7:VR:126:SER:N	2.53	0.40
6:WR:139:CYS:O	6:WR:139:CYS:SG	2.79	0.40
7:XR:85:ASP:OD2	29:XR:201:PEB:HHA1	2.22	0.40
1:X1:267:GLY:HA2	1:X1:310:THR:HG21	2.03	0.40
4:C1:129:TYR:HB2	4:C1:161:LEU:HD13	2.04	0.40
5:N1:12:ALA:CB	5:N1:19:LEU:HD23	2.52	0.40
6:Q1:140:VAL:HG12	6:Q1:146:ALA:HA	2.01	0.40
6:S1:102:THR:HG22	6:S1:155:TYR:HE1	1.86	0.40
7:Y1:37:ARG:O	7:Y1:41:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y1:151:MET:HE2	7:Y1:151:MET:HB3	1.90	0.40
6:Z1:157:ASP:HA	6:Z1:160:ILE:HB	2.02	0.40
7:e1:37:ARG:O	7:e1:41:VAL:HG23	2.21	0.40
7:g1:37:ARG:O	7:g1:41:VAL:HG23	2.21	0.40
6:l1:144:MET:HB3	6:l1:148:ALA:HB3	2.04	0.40
8:e2:198:ASP:O	8:e2:202:GLN:OE1	2.39	0.40
6:O2:79:ILE:HG21	13:k6:245:VAL:HG11	1.95	0.40
6:Q2:139:CYS:HB3	29:Q2:202:PEB:H3A1	1.39	0.40
7:T2:16:ALA:HB2	7:X2:69:PRO:CG	2.52	0.40
6:W2:43:LYS:O	29:W2:202:PEB:CBD	2.70	0.40
7:J3:177:SER:O	5:NI:63:GLN:CD	2.65	0.40
7:L3:15:LYS:HB2	7:L3:15:LYS:HE2	1.78	0.40
7:N3:66:LEU:HD12	7:N3:66:LEU:HA	1.91	0.40
6:B4:89:TYR:O	6:B4:93:VAL:HG22	2.20	0.40
6:B4:118:ARG:HH22	6:L4:118:ARG:NH2	2.19	0.40
7:G4:33:ASP:HA	7:G4:36:LYS:HG2	2.02	0.40
7:G4:117:TYR:HB3	7:G4:122:VAL:HB	2.03	0.40
6:H4:39:GLU:HA	6:H4:42:GLU:OE2	2.21	0.40
6:H4:81:LYS:HG3	29:H4:201:PEB:C3B	2.51	0.40
7:I4:129:ARG:HH21	7:I4:133:ILE:N	2.18	0.40
7:I4:143:THR:OG1	7:I4:145:THR:HG23	2.21	0.40
7:M4:88:ILE:H	7:M4:88:ILE:HG12	1.71	0.40
7:M4:137:GLN:HG2	7:M4:137:GLN:H	1.51	0.40
7:M4:158:CYS:O	7:M4:161:LEU:HB2	2.21	0.40
7:M4:167:SER:O	7:M4:171:ARG:NH1	2.53	0.40
7:B5:104:VAL:HB	18:MC:265:LYS:CB	2.50	0.40
7:G5:148:GLU:O	7:k9:145:THR:HG21	2.21	0.40
13:k6:198:MET:SD	5:H7:57:ARG:CG	3.09	0.40
1:X7:247:LYS:HB3	7:a7:111:ASN:HD21	1.86	0.40
3:B7:137:LEU:HA	3:B7:137:LEU:HD12	1.85	0.40
4:C7:94:MET:HE1	5:D7:13:ASP:OD1	2.21	0.40
4:E7:124:LEU:HD11	31:E7:1001:CYC:ND	2.36	0.40
5:F7:114:ARG:NH1	5:F7:114:ARG:HB3	2.37	0.40
5:H7:30:MET:HE2	5:H7:30:MET:HB3	1.86	0.40
29:N7:1002:PEB:HAB2	29:N7:1002:PEB:HHB1	1.91	0.40
7:R7:8:VAL:HG21	7:R7:27:LEU:HD21	2.02	0.40
7:I8:149:ARG:HH12	7:NM:64:PRO:HG2	1.86	0.40
7:L8:108:ARG:NH1	4:I9:64:PRO:CD	2.32	0.40
7:A8:49:SER:OG	11:D8:239:PRO:HB2	2.21	0.40
7:C8:142:ILE:HD12	7:C8:142:ILE:HA	1.68	0.40
1:X9:105:LYS:CD	29:P9:201:PEB:HBD1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X9:218:ARG:HD3	1:X9:250:LEU:HD13	2.02	0.40
2:A9:158:LEU:HD23	2:A9:158:LEU:HA	1.95	0.40
5:F9:21:ASN:O	5:F9:25:ASP:OD1	2.39	0.40
7:R9:76:ASN:ND2	29:Z9:201:PEB:HHC2	2.37	0.40
6:S9:26:SER:HB3	6:U9:26:SER:HB3	2.02	0.40
7:V9:8:VAL:HG21	7:V9:27:LEU:HD21	2.02	0.40
29:V9:203:PEB:H1D1	13:kH:153:LYS:HZ1	1.85	0.40
7:a9:5:PHE:HD1	7:a9:27:LEU:HD22	1.85	0.40
7:g9:6:SER:O	7:g9:10:VAL:HG23	2.20	0.40
7:g9:8:VAL:HG21	7:g9:27:LEU:HD21	2.02	0.40
6:EA:92:LEU:HD23	6:EA:95:TYR:HD2	1.87	0.40
6:GA:111:ALA:HB2	29:MA:405:PEB:OA	2.21	0.40
7:HA:44:ILE:HD13	7:HA:44:ILE:HA	1.94	0.40
7:JA:59:MET:HG3	7:JA:130:ALA:HB2	2.02	0.40
7:LA:91:ARG:O	7:LA:94:SER:OG	2.36	0.40
7:LA:129:ARG:NH2	29:LA:203:PEB:O2C	2.54	0.40
7:LA:147:THR:OG1	29:LA:203:PEB:OA	2.27	0.40
14:MA:167:ARG:HD3	14:MA:170:GLN:HE21	1.86	0.40
14:MA:186:TYR:CD1	14:MA:189:LYS:HD2	2.56	0.40
15:bB:276:ASN:CB	28:bP:178:LYS:HE3	2.51	0.40
7:DB:33:ASP:CG	7:DB:36:LYS:HE2	2.46	0.40
29:HB:203:PEB:HBA2	29:HB:203:PEB:H2A1	1.86	0.40
7:RB:139:VAL:O	7:RB:143:THR:OG1	2.35	0.40
7:VB:33:ASP:CG	7:VB:36:LYS:HE2	2.46	0.40
6:YB:3:SER:HB3	6:YB:99:VAL:HG12	2.03	0.40
7:gB:59:MET:HE2	7:gB:59:MET:HB3	1.89	0.40
6:lB:3:SER:HB3	6:lB:99:VAL:HG12	2.03	0.40
6:EC:157:ASP:OD1	6:EC:157:ASP:N	2.54	0.40
6:GC:157:ASP:OD1	6:GC:157:ASP:N	2.54	0.40
10:dD:316:GLN:CD	10:dD:316:GLN:H	2.30	0.40
6:BD:29:GLY:O	6:BD:32:GLN:CD	2.61	0.40
6:BD:118:ARG:HH22	6:LD:118:ARG:NH2	2.19	0.40
6:BD:155:TYR:O	6:BD:158:TYR:HB3	2.21	0.40
7:CD:71:GLY:O	7:CD:73:CYS:N	2.46	0.40
7:CD:143:THR:OG1	7:CD:145:THR:HG23	2.21	0.40
6:DD:155:TYR:O	6:DD:158:TYR:HB3	2.21	0.40
7:ED:30:PHE:CE1	7:ED:37:ARG:NH1	2.88	0.40
6:JD:66:LEU:HA	6:JD:71:GLU:HG3	2.03	0.40
7:KD:164:GLU:HG3	7:KD:164:GLU:H	1.69	0.40
6:LD:103:GLY:O	6:LD:107:GLU:HB2	2.21	0.40
7:DE:55:ALA:CB	7:DE:134:MET:SD	3.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EE:157:ASP:OD1	6:EE:157:ASP:N	2.54	0.40
7:JE:26:ALA:O	7:JE:29:SER:OG	2.28	0.40
7:LE:105:LEU:HD21	7:LE:171:ARG:HD2	2.03	0.40
18:ME:166:ASP:O	18:ME:170:ASP:N	2.49	0.40
18:ME:284:LEU:HG	5:DI:18:PHE:HE2	1.87	0.40
5:DF:169:VAL:O	5:DF:169:VAL:CG1	2.69	0.40
6:WF:103:GLY:O	6:WF:107:GLU:HB2	2.20	0.40
7:iF:33:ASP:OD1	7:iF:33:ASP:C	2.64	0.40
6:AG:5:ILE:HA	6:AG:8:VAL:HG22	2.01	0.40
6:AG:157:ASP:OD1	6:AG:158:TYR:N	2.55	0.40
6:CG:43:LYS:HD3	29:CG:202:PEB:HAD1	2.04	0.40
7:HG:127:SER:HB2	7:HG:176:ILE:HD12	2.03	0.40
6:KG:43:LYS:HD3	29:KG:202:PEB:HAD1	2.04	0.40
29:LG:201:PEB:HAC1	14:MG:237:ILE:HG22	2.02	0.40
6:UI:156:LEU:HD23	6:UI:156:LEU:HA	1.91	0.40
7:YI:129:ARG:HA	7:YI:129:ARG:HD2	1.92	0.40
7:eI:68:SER:CB	7:eI:69:PRO:HD2	2.40	0.40
7:kI:33:ASP:OD1	7:kI:33:ASP:C	2.64	0.40
6:CJ:70:GLY:N	6:CJ:74:GLU:HG2	2.16	0.40
7:LJ:30:PHE:HB2	28:4P:228:ILE:HD11	2.03	0.40
7:RJ:72:MEN:HE22	7:RJ:122:VAL:HA	2.03	0.40
6:SJ:97:LEU:HD11	6:SJ:152:PHE:HD1	1.87	0.40
6:UJ:43:LYS:HA	6:UJ:43:LYS:HD2	1.67	0.40
6:UJ:82:CYS:O	6:UJ:86:VAL:HG23	2.20	0.40
7:VJ:3:ASP:OD1	7:VJ:3:ASP:N	2.55	0.40
6:aJ:30:ASN:OD1	6:aJ:37:ARG:NH2	2.44	0.40
6:iJ:97:LEU:HD11	6:iJ:152:PHE:HD1	1.87	0.40
7:jJ:3:ASP:OD1	7:jJ:3:ASP:N	2.55	0.40
6:kJ:5:ILE:HG21	7:lJ:99:ALA:HA	2.03	0.40
6:kJ:112:GLY:H	16:xJ:209:GLU:CG	2.32	0.40
29:kJ:202:PEB:HBA3	29:kJ:202:PEB:H2A1	1.91	0.40
7:lJ:72:MEN:HE22	7:lJ:122:VAL:HA	2.04	0.40
6:mJ:17:ARG:CD	30:xJ:304:PUB:O1B	2.68	0.40
6:mJ:97:LEU:HD11	6:mJ:152:PHE:HD1	1.87	0.40
7:nJ:109:CYS:C	16:xJ:111:GLN:NE2	2.74	0.40
17:yJ:63:VAL:HA	17:yJ:64:PRO:HD3	1.96	0.40
4:CK:161:LEU:HD23	4:CK:161:LEU:HA	1.88	0.40
6:QK:103:GLY:O	6:QK:107:GLU:HB2	2.21	0.40
29:ZK:203:PEB:HBA3	29:ZK:203:PEB:H2A1	1.89	0.40
6:dK:99:VAL:CG2	7:eK:9:VAL:HG21	2.51	0.40
6:dK:103:GLY:O	6:dK:107:GLU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:hK:102:THR:HG22	6:hK:155:TYR:HE1	1.87	0.40
7:BL:72:MEN:HE22	7:BL:122:VAL:HA	2.04	0.40
6:CL:125:SER:HA	6:CL:128:VAL:HG22	2.03	0.40
6:EL:106:ASP:OD1	6:EL:158:TYR:OH	2.31	0.40
7:FL:72:MEN:HE22	7:FL:122:VAL:HA	2.03	0.40
7:HL:1:MET:HE3	7:HL:1:MET:HB2	1.80	0.40
7:LL:3:ASP:OD1	7:LL:3:ASP:N	2.55	0.40
7:LL:26:ALA:HB1	28:bP:231:ILE:CD1	2.51	0.40
6:ML:125:SER:HA	6:ML:128:VAL:HG22	2.03	0.40
7:RL:72:MEN:HE22	7:RL:122:VAL:HA	2.03	0.40
7:XL:158:CYS:HB3	29:XL:202:PEB:HBA1	1.88	0.40
29:aL:202:PEB:HBA3	29:aL:202:PEB:H2A1	1.91	0.40
7:hL:19:VAL:CG1	7:hL:23:ASP:OD1	2.57	0.40
6:mL:91:ARG:HH12	7:nL:13:ASP:HA	1.85	0.40
6:oL:18:PHE:CE1	7:pL:91:ARG:HA	2.56	0.40
6:oL:97:LEU:HD11	6:oL:152:PHE:HD1	1.87	0.40
15:bM:90:TYR:CE2	7:nM:81:ALA:HB1	2.56	0.40
15:bM:319:VAL:HG23	20:mP:79:ALA:HB1	2.00	0.40
15:bM:407:THR:HG22	28:4P:81:VAL:HG11	2.03	0.40
16:AM:238:MET:HB3	16:AM:260:PRO:HB3	2.03	0.40
6:IM:33:ARG:HH12	6:IM:147:GLN:HB3	1.86	0.40
6:KM:3:SER:HB3	6:KM:99:VAL:HG12	2.03	0.40
29:QM:203:PEB:HAC1	7:VM:79:MET:HE2	2.03	0.40
7:VM:84:ARG:NH2	29:VM:201:PEB:C4C	2.84	0.40
6:WM:3:SER:HB3	6:WM:99:VAL:HG12	2.03	0.40
7:ZM:50:CYS:HB3	29:ZM:203:PEB:H3A1	1.99	0.40
6:GN:84:ARG:NH2	29:GN:201:PEB:O1C	2.54	0.40
7:HN:110:LEU:HA	7:HN:113:LEU:HD23	2.02	0.40
7:JN:44:ILE:HD13	7:JN:44:ILE:HA	1.94	0.40
7:JN:125:ASN:OD1	7:JN:125:ASN:N	2.53	0.40
6:KN:82:CYS:HA	29:KN:201:PEB:HHA1	2.04	0.40
6:KN:139:CYS:N	6:KN:143:ASP:OD2	2.51	0.40
7:DO:15:LYS:HB2	7:DO:15:LYS:HE2	1.78	0.40
6:GO:105:LEU:HD12	6:GO:105:LEU:HA	1.88	0.40
6:GO:108:TRP:HA	7:LO:75:THR:OG1	2.22	0.40
21:DP:24:VAL:HG12	21:DP:28:ARG:HE	1.86	0.40
20:CP:77:MET:HA	20:CP:77:MET:HE2	2.02	0.40
21:HP:24:VAL:HG12	21:HP:28:ARG:HE	1.86	0.40
21:HP:33:THR:O	21:HP:37:ARG:HG3	2.21	0.40
20:JP:127:ALA:O	20:JP:157:LEU:HD21	2.22	0.40
21:MP:135:GLU:OE1	21:MP:135:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:OP:24:VAL:HG12	21:OP:28:ARG:HE	1.86	0.40
21:QP:24:VAL:HG12	21:QP:28:ARG:HE	1.86	0.40
21:UP:24:VAL:HG12	21:UP:28:ARG:HE	1.86	0.40
21:UP:135:GLU:OE1	21:UP:135:GLU:N	2.54	0.40
25:YP:489:ASN:O	25:YP:490:GLN:HB3	2.20	0.40
21:dP:33:THR:O	21:dP:37:ARG:HG3	2.21	0.40
20:eP:48:GLU:HG2	20:eP:49:ARG:N	2.36	0.40
21:fP:135:GLU:OE1	21:fP:135:GLU:N	2.54	0.40
20:gP:48:GLU:HG2	20:gP:49:ARG:N	2.36	0.40
20:gP:127:ALA:O	20:gP:157:LEU:HD21	2.22	0.40
20:iP:16:ARG:O	23:yP:100:TYR:OH	2.37	0.40
21:jP:96:MET:HG2	21:jP:148:GLU:HG3	2.02	0.40
20:tP:25:ARG:HE	20:tP:25:ARG:HA	1.87	0.40
21:uP:58:LYS:HE2	21:uP:58:LYS:HB3	1.81	0.40
21:uP:63:SER:CB	27:3P:52:VAL:HB	2.51	0.40
22:xP:150:ALA:HB3	22:xP:151:PRO:HD3	2.03	0.40
25:1P:386:PHE:HE1	25:1P:393:TYR:CE2	2.39	0.40
25:1P:772:LEU:HD12	25:1P:776:TYR:HB3	2.03	0.40
6:CQ:114:ARG:HA	6:CQ:114:ARG:HD3	1.70	0.40
6:EQ:157:ASP:OD1	6:EQ:158:TYR:N	2.55	0.40
6:GQ:4:VAL:O	6:GQ:7:THR:OG1	2.30	0.40
6:IQ:38:LEU:HD13	7:JQ:24:LEU:HD12	2.04	0.40
7:LQ:25:GLN:HA	7:LQ:28:LYS:HD3	2.03	0.40
7:LQ:58:GLY:HA2	29:LQ:202:PEB:HMC1	2.02	0.40
14:MQ:275:LYS:HA	14:MQ:275:LYS:HD2	1.85	0.40
8:eR:215:LYS:HE3	8:eR:218:TYR:CE1	2.57	0.40
6:OR:89:TYR:O	6:OR:93:VAL:HG22	2.22	0.40
7:RR:61:CYS:HB3	29:RR:203:PEB:HBD2	1.54	0.40
6:SR:114:ARG:NH2	6:UR:118:ARG:HD3	2.36	0.40
6:UR:89:TYR:O	6:UR:93:VAL:HG22	2.22	0.40
6:UR:157:ASP:HA	6:UR:160:ILE:HB	2.02	0.40
7:VR:134:MET:O	7:VR:137:GLN:HG3	2.21	0.40
7:XR:77:ARG:HH11	7:XR:77:ARG:CG	2.34	0.40
3:B1:225:VAL:CG2	3:B1:226:GLN:N	2.84	0.40
3:B1:225:VAL:HG23	3:B1:226:GLN:N	2.36	0.40
4:C1:4:PRO:HG2	4:C1:30:ARG:CD	2.35	0.40
4:G1:29:GLY:HA3	4:I1:25:GLN:O	2.21	0.40
4:G1:65:TYR:HA	4:G1:68:GLN:CG	2.50	0.40
5:H1:30:MET:HE3	5:H1:30:MET:HB2	1.71	0.40
5:H1:35:ASN:HD21	29:H1:1002:PEB:C3C	2.28	0.40
5:J1:20:SER:CB	5:J1:23:GLN:HE21	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L1:75:THR:O	5:L1:79:MET:N	2.51	0.40
5:N1:19:LEU:HD22	5:N1:19:LEU:HA	1.97	0.40
7:R1:97:LEU:CD1	7:R1:165:VAL:HG23	2.40	0.40
6:S1:103:GLY:O	6:S1:107:GLU:HB2	2.21	0.40
7:T1:3:ASP:OD1	7:T1:6:SER:N	2.44	0.40
7:T1:97:LEU:CD1	7:T1:165:VAL:HG23	2.40	0.40
7:T1:125:ASN:OD1	7:T1:126:SER:N	2.54	0.40
6:U1:74:GLU:H	6:U1:74:GLU:HG2	1.65	0.40
6:W1:157:ASP:OD2	7:a1:46:SER:CB	2.69	0.40
6:Z1:144:MET:HB3	6:Z1:148:ALA:HB3	2.04	0.40
7:a1:125:ASN:OD1	7:a1:126:SER:N	2.54	0.40
6:d1:103:GLY:O	6:d1:107:GLU:HB2	2.21	0.40
6:d1:157:ASP:HA	6:d1:160:ILE:HB	2.02	0.40
7:e1:74:TYR:HH	6:l1:91:ARG:NH2	2.11	0.40
8:e2:126:TYR:HD2	7:V2:120:LEU:CD1	2.32	0.40
8:e2:239:LYS:NZ	29:e2:401:PEB:O2B	2.54	0.40
6:M2:37:ARG:HH22	29:P2:201:PEB:HBD2	1.86	0.40
7:N2:54:ASP:HB3	7:N2:137:GLN:HE22	1.86	0.40
6:U2:142:ARG:HD3	29:U2:202:PEB:HBA3	2.02	0.40
6:W2:2:LYS:O	6:W2:101:GLY:HA3	2.21	0.40
6:A3:118:ARG:CZ	6:K3:114:ARG:HD3	2.52	0.40
6:C3:106:ASP:CG	6:C3:107:GLU:N	2.72	0.40
6:G3:24:LEU:HD13	29:H3:202:PEB:HMD2	2.03	0.40
7:L3:53:SER:O	7:L3:57:SER:OG	2.26	0.40
7:M3:75:THR:HA	9:O3:348:LEU:HD11	2.03	0.40
10:d4:316:GLN:H	10:d4:316:GLN:CD	2.30	0.40
6:B4:106:ASP:O	6:B4:111:ALA:HB2	2.21	0.40
7:E4:59:MET:CE	7:E4:130:ALA:CB	2.90	0.40
7:E4:90:LEU:O	7:E4:93:VAL:HG13	2.21	0.40
6:F4:103:GLY:O	6:F4:107:GLU:HB2	2.21	0.40
7:G4:54:ASP:OD2	29:G4:203:PEB:HHA1	2.21	0.40
7:G4:122:VAL:HA	7:G4:123:PRO:HD3	1.99	0.40
7:G4:143:THR:OG1	7:G4:145:THR:HG23	2.21	0.40
7:G4:158:CYS:O	7:G4:161:LEU:HB2	2.21	0.40
6:J4:151:GLU:N	6:J4:151:GLU:OE2	2.43	0.40
7:K4:26:ALA:HA	7:K4:29:SER:OG	2.19	0.40
7:K4:75:THR:H	7:K4:78:ARG:HH21	1.68	0.40
7:K4:90:LEU:O	7:K4:93:VAL:HG13	2.21	0.40
7:M4:90:LEU:O	7:M4:93:VAL:HG13	2.21	0.40
7:M4:143:THR:OG1	7:M4:145:THR:HG23	2.21	0.40
7:H5:108:ARG:HA	7:H5:108:ARG:HD2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H5:108:ARG:O	12:E5:52:ASN:ND2	2.52	0.40
7:A5:87:GLU:O	7:A5:91:ARG:HG2	2.22	0.40
12:E5:164:VAL:HG23	29:kI:203:PEB:OD	2.19	0.40
13:k6:187:THR:HG21	5:H7:141:LEU:CG	2.52	0.40
5:F7:135:LYS:O	5:F7:139:VAL:HG23	2.21	0.40
5:H7:109:CYS:HA	31:H7:1001:CYC:HBB1	2.04	0.40
5:L7:109:CYS:HA	31:L7:1001:CYC:HBB1	2.04	0.40
5:N7:43:LYS:NZ	5:N7:146:THR:OG1	2.54	0.40
5:N7:166:ARG:HH12	26:2P:96:VAL:HG21	1.84	0.40
7:R7:129:ARG:HA	7:R7:129:ARG:HD2	1.92	0.40
7:k7:52:VAL:HG21	7:k7:87:GLU:HG2	2.02	0.40
7:k7:110:LEU:HD11	7:k7:172:VAL:HG23	2.03	0.40
7:I8:125:ASN:OD1	7:I8:125:ASN:N	2.54	0.40
7:K8:67:ILE:HA	7:K8:67:ILE:HD12	1.79	0.40
7:L8:76:ASN:HD21	6:OR:75:ASN:CB	2.33	0.40
7:L8:79:MET:CE	13:kH:233:VAL:HG23	2.26	0.40
4:C9:122:PHE:CE2	5:F9:83:LEU:HD11	2.56	0.40
5:D9:115:GLU:HA	5:D9:118:GLN:HB2	2.02	0.40
5:H9:150:ILE:HG22	7:ZM:159:THR:HG23	2.01	0.40
5:J9:109:CYS:HA	31:J9:1001:CYC:HBB1	2.04	0.40
7:c9:3:ASP:OD1	7:c9:6:SER:OG	2.31	0.40
7:c9:6:SER:O	7:c9:10:VAL:HG23	2.20	0.40
7:e9:5:PHE:HD1	7:e9:27:LEU:HD22	1.85	0.40
6:l9:5:ILE:HD12	7:m9:3:ASP:HB3	1.15	0.40
6:AA:92:LEU:HD23	6:AA:95:TYR:HD2	1.87	0.40
7:FA:118:ILE:HD12	14:MA:105:LYS:O	2.21	0.40
6:IA:17:ARG:HH22	6:IA:20:SER:H	1.70	0.40
6:IA:34:SER:OG	7:JA:31:ILE:HG13	2.22	0.40
14:MA:223:CYS:HB2	29:MA:401:PEB:HBA1	1.82	0.40
16:AB:77:VAL:HG21	6:hB:14:ALA:HB1	2.03	0.40
6:GB:43:LYS:HA	6:GB:43:LYS:HD3	1.91	0.40
7:JB:33:ASP:CG	7:JB:36:LYS:HE2	2.46	0.40
7:LB:33:ASP:CG	7:LB:36:LYS:HE2	2.46	0.40
29:LB:203:PEB:HBA2	29:LB:203:PEB:H2A1	1.86	0.40
6:SB:33:ARG:HH12	6:SB:147:GLN:HB3	1.86	0.40
7:VB:59:MET:HE2	7:VB:59:MET:HB3	1.89	0.40
6:aB:33:ARG:HH12	6:aB:147:GLN:HB3	1.86	0.40
7:cB:7:ARG:HA	7:cB:7:ARG:HD3	1.90	0.40
6:hB:3:SER:HB3	6:hB:99:VAL:HG12	2.03	0.40
6:jB:3:SER:HB3	6:jB:99:VAL:HG12	2.03	0.40
6:AC:81:LYS:HE2	6:AC:84:ARG:HH21	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:MC:255:LYS:C	18:MC:256:THR:OG1	2.55	0.40
10:dD:67:SER:OG	10:dD:69:GLU:OE1	2.29	0.40
10:dD:129:GLU:CA	7:ED:108:ARG:NH2	2.66	0.40
7:CD:58:GLY:HA2	29:CD:203:PEB:HMD3	2.00	0.40
6:DD:81:LYS:HG3	29:DD:201:PEB:C3B	2.51	0.40
7:ED:90:LEU:O	7:ED:93:VAL:HG13	2.21	0.40
7:ED:158:CYS:O	7:ED:161:LEU:HB2	2.21	0.40
6:FD:113:ALA:C	6:FD:115:GLU:N	2.78	0.40
6:HD:66:LEU:HA	6:HD:71:GLU:HG3	2.03	0.40
6:HD:97:LEU:HD23	6:HD:97:LEU:HA	1.97	0.40
7:ID:33:ASP:HA	7:ID:36:LYS:HG2	2.02	0.40
7:ID:117:TYR:CD1	7:ID:122:VAL:CB	3.04	0.40
6:JD:39:GLU:HA	6:JD:42:GLU:OE2	2.21	0.40
6:JD:43:LYS:HD2	6:JD:43:LYS:HA	1.70	0.40
6:LD:42:GLU:HG2	6:LD:43:LYS:N	2.36	0.40
7:BE:55:ALA:CB	7:BE:134:MET:SD	3.02	0.40
7:DE:105:LEU:HD21	7:DE:171:ARG:HD2	2.03	0.40
6:QF:137:ARG:HE	6:QF:137:ARG:HB2	1.73	0.40
6:jF:140:VAL:HG12	6:jF:146:ALA:HA	2.04	0.40
6:lF:88:HIS:CD2	6:lF:91:ARG:HH21	2.39	0.40
6:EG:72:ALA:O	6:EG:78:LYS:NZ	2.40	0.40
7:HG:92:TYR:HB3	7:HG:105:LEU:HD13	2.04	0.40
7:LG:112:GLY:O	14:MG:233:ALA:HA	2.21	0.40
13:kH:280:ARG:O	13:kH:283:LYS:HG2	2.21	0.40
5:DI:59:LEU:HD22	5:DI:130:ALA:HB2	2.02	0.40
6:ZI:1:MET:HE1	6:ZI:104:PRO:HG3	2.04	0.40
6:fI:122:LEU:HA	6:fI:123:PRO:HD3	1.97	0.40
7:DJ:129:ARG:HA	7:DJ:129:ARG:HD2	1.82	0.40
7:NJ:19:VAL:CG1	7:NJ:23:ASP:OD1	2.57	0.40
29:RJ:203:PEB:HBA2	29:RJ:203:PEB:H2A1	1.91	0.40
6:aJ:97:LEU:HD11	6:aJ:152:PHE:HD1	1.87	0.40
29:bJ:203:PEB:HBA2	29:bJ:203:PEB:H2A1	1.91	0.40
7:dJ:158:CYS:HB3	29:dJ:202:PEB:HBA1	1.88	0.40
7:nJ:108:ARG:HG2	16:xJ:197:LEU:CD2	2.38	0.40
29:pJ:202:PEB:C3D	6:qJ:33:ARG:NE	2.84	0.40
6:sJ:125:SER:HA	6:sJ:128:VAL:HG22	2.03	0.40
7:tJ:3:ASP:N	7:tJ:3:ASP:OD1	2.55	0.40
19:zJ:326:ASP:OD1	19:zJ:326:ASP:N	2.54	0.40
5:DK:29:LYS:O	5:DK:33:GLU:OE1	2.40	0.40
5:DK:40:ILE:CD1	5:DK:156:LEU:CD1	2.98	0.40
4:IK:44:LEU:HD23	4:IK:44:LEU:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:130:ILE:HG23	4:IK:158:ILE:HG23	2.02	0.40
7:VK:1:MET:HE3	7:VK:1:MET:HB2	1.89	0.40
6:WK:103:GLY:O	6:WK:107:GLU:HB2	2.21	0.40
7:gK:37:ARG:O	7:gK:41:VAL:HG23	2.21	0.40
6:hK:144:MET:HB3	6:hK:148:ALA:HB3	2.03	0.40
6:jK:103:GLY:O	6:jK:107:GLU:HB2	2.21	0.40
6:IK:102:THR:HG22	6:IK:155:TYR:HE1	1.87	0.40
29:DL:202:PEB:HBA2	29:DL:202:PEB:H2A1	1.91	0.40
6:GL:44:LEU:HD12	6:GL:44:LEU:HA	1.94	0.40
7:JL:78:ARG:HD3	29:JL:201:PEB:HMB3	2.02	0.40
6:KL:73:GLY:HA2	6:KL:78:LYS:NZ	2.37	0.40
6:ML:140:VAL:HG23	6:ML:146:ALA:CA	2.32	0.40
6:OL:97:LEU:HD11	6:OL:152:PHE:HD1	1.87	0.40
6:YL:30:ASN:OD1	6:YL:37:ARG:NH2	2.44	0.40
6:YL:53:LYS:HA	6:YL:53:LYS:HD3	1.90	0.40
7:ZL:111:ASN:C	16:xL:39:LEU:HD22	2.40	0.40
6:eL:125:SER:HA	6:eL:128:VAL:HG22	2.03	0.40
6:gL:97:LEU:HD11	6:gL:152:PHE:HD1	1.87	0.40
6:kL:97:LEU:HD11	6:kL:152:PHE:HD1	1.87	0.40
6:mL:41:ALA:HB3	7:nL:24:LEU:CD1	2.51	0.40
7:nL:3:ASP:OD1	7:nL:3:ASP:N	2.55	0.40
29:nL:201:PEB:HBC2	16:xL:103:LEU:CD1	2.46	0.40
7:rL:3:ASP:OD1	7:rL:3:ASP:N	2.55	0.40
7:rL:158:CYS:HB3	29:rL:202:PEB:HBA1	1.88	0.40
19:zL:366:ARG:NH1	21:LP:62:TYR:CD2	2.73	0.40
15:bM:60:HIS:HD2	15:bM:267:THR:CG2	2.34	0.40
15:bM:90:TYR:HD1	15:bM:90:TYR:HA	1.77	0.40
15:bM:112:SER:OG	15:bM:113:VAL:N	2.53	0.40
15:bM:271:TRP:CD1	15:bM:271:TRP:C	3.00	0.40
15:bM:370:TYR:CD1	21:oP:128:GLN:CG	3.05	0.40
16:AM:61:ASP:CG	16:AM:146:PRO:HD3	2.47	0.40
30:AM:304:PUB:NB	30:AM:304:PUB:NC	2.68	0.40
7:FM:1:MET:HE3	7:FM:1:MET:HB2	1.89	0.40
6:IM:3:SER:HB3	6:IM:99:VAL:HG12	2.03	0.40
6:IM:144:MET:HE2	6:IM:144:MET:HB3	1.96	0.40
6:KM:53:LYS:HA	6:KM:53:LYS:HD3	1.94	0.40
6:MM:33:ARG:HH12	6:MM:147:GLN:HB3	1.86	0.40
6:MM:43:LYS:HA	6:MM:43:LYS:HD3	1.91	0.40
7:VM:1:MET:HB2	7:VM:1:MET:HE3	1.89	0.40
7:VM:33:ASP:CG	7:VM:36:LYS:HE2	2.46	0.40
6:WM:53:LYS:HA	6:WM:53:LYS:HD3	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:cM:203:PEB:HBA2	29:cM:203:PEB:H2A1	1.86	0.40
6:dM:16:GLY:HA2	7:eM:91:ARG:NH1	2.36	0.40
7:eM:33:ASP:CG	7:eM:36:LYS:HE2	2.46	0.40
7:mM:50:CYS:HB3	29:mM:203:PEB:H3A1	1.99	0.40
6:AN:84:ARG:NH2	29:AN:201:PEB:O1C	2.54	0.40
6:GN:92:LEU:HD23	6:GN:95:TYR:HD2	1.87	0.40
7:LN:113:LEU:HA	14:MN:236:TYR:CD2	2.57	0.40
14:MN:167:ARG:HD3	14:MN:170:GLN:HE21	1.86	0.40
14:MN:176:MET:HE3	14:MN:176:MET:HB3	1.84	0.40
14:MN:180:TYR:HD1	14:MN:206:ASN:HB3	1.86	0.40
29:BO:202:PEB:HAC1	29:BO:202:PEB:HMC1	1.90	0.40
7:NO:83:LEU:CB	9:OO:402:ILE:HG13	2.47	0.40
7:NO:169:PHE:HA	7:NO:172:VAL:HG22	2.03	0.40
21:DP:135:GLU:OE1	21:DP:135:GLU:N	2.54	0.40
21:HP:60:LEU:HD13	21:HP:72:MET:SD	2.61	0.40
20:PP:127:ALA:O	20:PP:157:LEU:HD21	2.22	0.40
28:bP:88:LEU:HD22	28:bP:138:LEU:HD21	2.03	0.40
20:lP:127:ALA:O	20:lP:157:LEU:HD21	2.22	0.40
21:nP:65:ILE:O	21:nP:70:GLY:HA3	2.21	0.40
21:sP:14:VAL:HG11	25:1P:690:ILE:HG23	2.03	0.40
20:tP:109:LEU:HD23	20:tP:109:LEU:HA	1.92	0.40
20:tP:127:ALA:O	20:tP:157:LEU:HD21	2.22	0.40
23:yP:110:LEU:HD23	23:yP:110:LEU:HA	1.87	0.40
25:1P:483:ARG:HG2	25:1P:506:PRO:HD3	2.03	0.40
6:AQ:57:ASP:OD1	6:AQ:57:ASP:N	2.55	0.40
6:AQ:89:TYR:HB3	6:AQ:159:LEU:HD21	2.03	0.40
6:AQ:157:ASP:OD1	6:AQ:158:TYR:N	2.55	0.40
7:BQ:146:ALA:CA	29:BQ:203:PEB:O1B	2.61	0.40
6:EQ:43:LYS:HD3	29:EQ:202:PEB:HAD1	2.04	0.40
6:IQ:72:ALA:O	6:IQ:78:LYS:NZ	2.40	0.40
6:IQ:157:ASP:OD1	6:IQ:158:TYR:N	2.55	0.40
14:MQ:111:ARG:NH2	29:MQ:401:PEB:CMB	2.78	0.40
14:MQ:180:TYR:CZ	14:MQ:184:ARG:HD2	2.56	0.40
7:NR:27:LEU:O	7:NR:30:PHE:HB3	2.21	0.40
6:OR:2:LYS:O	6:OR:101:GLY:HA3	2.21	0.40
7:RR:106:GLU:O	7:RR:111:ASN:HB2	2.21	0.40
6:WR:43:LYS:HD3	6:WR:43:LYS:HA	1.88	0.40
6:WR:137:ARG:HH22	29:WR:202:PEB:CHB	2.35	0.40
1:X1:182:TYR:N	6:O1:14:ALA:O	2.53	0.40
3:B1:225:VAL:O	3:B1:226:GLN:C	2.65	0.40
4:E1:53:THR:CB	6:Q7:76:GLN:NE2	2.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E1:69:MET:HE1	4:I1:62:LYS:O	2.22	0.40
5:F1:62:GLU:H	5:F1:62:GLU:HG3	1.57	0.40
7:P1:37:ARG:O	7:P1:41:VAL:HG23	2.21	0.40
7:R1:37:ARG:O	7:R1:41:VAL:HG23	2.21	0.40
6:U1:103:GLY:O	6:U1:107:GLU:HB2	2.21	0.40
7:V1:173:GLY:O	7:V1:177:SER:OG	2.32	0.40
6:h1:139:CYS:HB3	29:h1:202:PEB:H3A1	1.88	0.40
8:e2:215:LYS:HE3	8:e2:218:TYR:CE1	2.57	0.40
8:e2:284:ASN:HA	8:e2:285:PRO:HD2	1.78	0.40
7:N2:27:LEU:O	7:N2:30:PHE:HB3	2.21	0.40
9:O3:335:LYS:HB2	9:O3:335:LYS:HE2	1.84	0.40
6:B4:42:GLU:HG2	6:B4:43:LYS:N	2.36	0.40
6:B4:103:GLY:O	6:B4:107:GLU:HB2	2.21	0.40
6:B4:118:ARG:CZ	6:L4:118:ARG:NH2	2.84	0.40
7:C4:171:ARG:HH11	7:C4:171:ARG:CB	2.17	0.40
6:H4:63:TYR:CD1	6:H4:65:TYR:HE1	2.39	0.40
7:I4:137:GLN:HG2	7:I4:137:GLN:H	1.51	0.40
6:J4:81:LYS:HG3	29:J4:201:PEB:C3B	2.51	0.40
7:K4:54:ASP:OD1	7:K4:54:ASP:C	2.65	0.40
7:M4:117:TYR:HB3	7:M4:122:VAL:HB	2.03	0.40
7:I5:10:VAL:CG2	7:I5:13:ASP:HB3	2.52	0.40
29:J5:202:PEB:HBC1	29:J5:202:PEB:HHB1	2.04	0.40
7:K5:1:MET:HA	7:K5:104:VAL:HG22	1.98	0.40
1:X7:69:ARG:O	1:X7:78:TYR:OH	2.40	0.40
1:X7:94:TYR:HD1	1:X7:94:TYR:HA	1.74	0.40
4:G7:104:THR:O	4:G7:104:THR:OG1	2.37	0.40
4:I7:137:LYS:HB2	4:I7:154:ILE:HG21	2.04	0.40
5:J7:39:ASP:OD1	29:J7:1002:PEB:HMD1	2.17	0.40
4:M7:70:PRO:CB	20:JP:49:ARG:HH11	2.33	0.40
6:U7:81:LYS:HE3	29:U7:201:PEB:HAB2	2.03	0.40
7:c7:110:LEU:HD11	7:c7:172:VAL:HG23	2.03	0.40
7:C8:125:ASN:OD1	7:C8:125:ASN:N	2.55	0.40
1:X9:69:ARG:O	1:X9:78:TYR:OH	2.40	0.40
1:X9:97:ASP:HB3	6:Q9:114:ARG:HH21	1.86	0.40
2:A9:155:GLU:CD	29:A9:304:PEB:HHC1	2.46	0.40
3:B9:30:ARG:HH11	4:C9:14:ASN:HD21	1.68	0.40
4:C9:117:GLU:O	4:C9:121:SER:OG	2.36	0.40
5:D9:65:GLN:H	5:D9:65:GLN:HG2	1.64	0.40
4:E9:85:ALA:CB	8:eR:296:PRO:CB	3.00	0.40
4:I9:134:GLN:CG	13:kH:192:VAL:CG2	2.73	0.40
5:N9:33:GLU:OE1	5:N9:36:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R9:129:ARG:HA	7:R9:129:ARG:HD2	1.92	0.40
6:W9:139:CYS:HB2	6:W9:142:ARG:HB3	2.02	0.40
7:a9:147:THR:HA	8:eR:284:ASN:HB3	2.03	0.40
7:e9:110:LEU:HD11	7:e9:172:VAL:HG23	2.03	0.40
7:k9:52:VAL:HG21	7:k9:87:GLU:HG2	2.02	0.40
6:l9:81:LYS:HE3	29:l9:201:PEB:HAB2	2.03	0.40
7:DA:21:GLY:HA2	7:DA:24:LEU:HB2	2.02	0.40
6:EA:84:ARG:NH2	29:EA:201:PEB:O1C	2.54	0.40
6:GA:82:CYS:HA	29:GA:201:PEB:HHA1	2.03	0.40
7:JA:43:SER:OG	7:JA:141:PHE:O	2.33	0.40
6:CB:53:LYS:HA	6:CB:53:LYS:HD3	1.94	0.40
6:GB:49:GLU:H	6:GB:49:GLU:HG2	1.58	0.40
6:KB:33:ARG:HH12	6:KB:147:GLN:HB3	1.86	0.40
7:PB:125:ASN:ND2	7:mB:70:GLY:C	2.76	0.40
7:RB:7:ARG:HA	7:RB:7:ARG:HD3	1.90	0.40
6:aB:43:LYS:HD3	6:aB:43:LYS:HA	1.90	0.40
6:IC:21:ASN:ND2	6:KC:100:GLY:O	2.54	0.40
18:MC:83:MET:SD	18:MC:83:MET:N	2.81	0.40
18:MC:312:LEU:CD1	18:MC:313:THR:OG1	2.69	0.40
10:dD:162:TYR:HA	10:dD:166:GLY:O	2.21	0.40
10:dD:290:GLU:HA	10:dD:296:TYR:CE1	2.55	0.40
6:BD:89:TYR:O	6:BD:93:VAL:HG22	2.20	0.40
6:DD:54:GLU:CG	6:DD:137:ARG:HD2	2.51	0.40
7:ED:7:ARG:O	7:ED:11:ASN:ND2	2.54	0.40
6:FD:63:TYR:CD1	6:FD:65:TYR:HE1	2.39	0.40
7:GD:77:ARG:NH2	29:GD:201:PEB:CGB	2.80	0.40
7:ID:38:LEU:HA	7:ID:38:LEU:HD23	1.64	0.40
7:KD:7:ARG:O	7:KD:11:ASN:ND2	2.54	0.40
6:LD:63:TYR:CD1	6:LD:65:TYR:HE1	2.39	0.40
7:MD:135:LYS:CE	7:MD:169:PHE:HB2	2.50	0.40
6:CE:41:ALA:O	6:CE:45:ALA:CB	2.69	0.40
6:CE:81:LYS:HE2	6:CE:84:ARG:HH21	1.87	0.40
7:DE:160:SER:O	7:DE:163:SER:OG	2.35	0.40
6:GE:144:MET:HB3	6:GE:144:MET:HE3	1.66	0.40
7:HE:57:SER:HA	7:HE:60:ILE:HG12	2.04	0.40
6:IE:152:PHE:CE1	6:IE:156:LEU:HD23	2.56	0.40
7:JE:57:SER:HA	7:JE:60:ILE:HG12	2.04	0.40
6:KE:41:ALA:O	6:KE:45:ALA:CB	2.69	0.40
18:ME:303:PHE:HB3	6:gL:83:TYR:CG	2.55	0.40
3:BF:62:LYS:NZ	4:GF:117:GLU:OE2	2.55	0.40
3:BF:203:ILE:HG12	5:JF:125:SER:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FF:169:VAL:O	5:FF:169:VAL:CG1	2.69	0.40
5:HF:59:LEU:HD22	5:HF:130:ALA:HB2	2.02	0.40
5:JF:107:ASP:OD1	27:3P:124:TRP:CZ2	2.74	0.40
6:OF:33:ARG:NH2	6:QF:28:GLN:OE1	2.53	0.40
6:OF:137:ARG:HE	6:OF:137:ARG:HB2	1.73	0.40
7:PF:124:THR:O	7:PF:128:ILE:HG13	2.22	0.40
7:RF:124:THR:O	7:RF:128:ILE:HG13	2.22	0.40
6:UF:91:ARG:HA	7:VF:18:TYR:CE2	2.57	0.40
7:YF:3:ASP:OD1	7:YF:6:SER:OG	2.30	0.40
7:gF:129:ARG:HA	7:gF:129:ARG:HD2	1.92	0.40
6:hF:1:MET:HE1	6:hF:104:PRO:HG3	2.04	0.40
6:AG:43:LYS:HD3	29:AG:202:PEB:HAD1	2.04	0.40
6:AG:89:TYR:HB3	6:AG:159:LEU:HD21	2.03	0.40
6:EG:43:LYS:HD3	29:EG:202:PEB:HAD1	2.04	0.40
7:FG:58:GLY:HA3	29:FG:203:PEB:C2D	2.50	0.40
7:HG:116:THR:CG2	14:MG:291:ALA:HB1	2.46	0.40
6:IG:98:VAL:O	7:JG:5:PHE:HB3	2.21	0.40
6:IG:157:ASP:OD1	6:IG:158:TYR:N	2.55	0.40
7:JG:25:GLN:HA	7:JG:28:LYS:HD3	2.03	0.40
6:KG:67:LYS:HB2	6:KG:67:LYS:HE2	1.88	0.40
13:kH:17:TRP:CZ3	13:kH:134:ILE:CD1	3.03	0.40
13:kH:134:ILE:CG1	13:kH:134:ILE:O	2.70	0.40
13:kH:250:VAL:O	13:kH:250:VAL:CG2	2.67	0.40
3:BI:149:GLU:O	3:BI:153:ASN:ND2	2.37	0.40
7:PI:33:ASP:OD1	7:PI:33:ASP:C	2.64	0.40
6:SI:1:MET:HE1	6:SI:104:PRO:HG3	2.04	0.40
7:VI:124:THR:O	7:VI:128:ILE:HG13	2.22	0.40
6:bI:88:HIS:CD2	6:bI:91:ARG:HH21	2.39	0.40
7:eI:124:THR:O	7:eI:128:ILE:HG13	2.22	0.40
7:kI:124:THR:O	7:kI:128:ILE:HG13	2.22	0.40
7:DJ:1:MET:HE3	7:DJ:1:MET:HB2	1.80	0.40
6:IJ:135:ARG:O	6:IJ:135:ARG:HG2	2.22	0.40
6:KJ:72:ALA:HB3	29:KJ:201:PEB:CMA	2.49	0.40
6:UJ:2:LYS:HD2	17:yJ:105:GLY:HA3	2.02	0.40
7:ZJ:1:MET:HE3	7:ZJ:1:MET:HB2	1.80	0.40
6:iJ:68:ASN:HA	6:iJ:69:PRO:HD3	1.92	0.40
7:jJ:72:MEN:HE22	7:jJ:122:VAL:HA	2.03	0.40
6:mJ:53:LYS:HA	6:mJ:53:LYS:HD3	1.90	0.40
6:qJ:97:LEU:HD11	6:qJ:152:PHE:HD1	1.87	0.40
29:qJ:201:PEB:HAC2	29:qJ:201:PEB:HHB1	1.92	0.40
6:uJ:68:ASN:CG	6:uJ:71:GLU:OE2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:wJ:105:ARG:HH12	29:wJ:303:PEB:HBB2	0.82	0.40
17:yJ:102:ILE:HD11	30:yJ:303:PUB:HMA2	2.03	0.40
19:zJ:285:LEU:HD23	19:zJ:285:LEU:HA	1.95	0.40
19:zJ:361:ARG:HD2	31:pP:1001:CYC:O2D	2.20	0.40
1:XK:72:ARG:HH11	1:XK:74:TYR:HE1	1.69	0.40
3:BK:204:ARG:CB	5:LK:125:SER:CB	2.98	0.40
4:MK:107:MET:C	4:MK:109:GLU:H	2.28	0.40
7:RK:125:ASN:OD1	7:RK:126:SER:N	2.54	0.40
6:dK:99:VAL:HG22	7:eK:9:VAL:HG21	2.03	0.40
6:dK:102:THR:HG22	6:dK:155:TYR:HE1	1.87	0.40
6:fK:102:THR:HG22	6:fK:155:TYR:HE1	1.87	0.40
7:gK:129:ARG:HD2	7:gK:129:ARG:HA	1.87	0.40
7:BL:75:THR:OG1	7:BL:76:ASN:N	2.52	0.40
7:JL:3:ASP:OD1	7:JL:3:ASP:N	2.55	0.40
7:LL:27:LEU:HD23	28:bP:228:ILE:HG13	2.01	0.40
6:cL:125:SER:HA	6:cL:128:VAL:HG22	2.03	0.40
16:wL:184:GLN:HA	16:wL:187:ARG:HG3	2.04	0.40
29:xL:301:PEB:NB	29:xL:301:PEB:NC	2.69	0.40
19:zL:392:LEU:HD23	19:zL:392:LEU:HA	1.91	0.40
15:bM:404:MET:HB3	15:bM:406:ARG:HH12	1.85	0.40
6:GM:3:SER:HB3	6:GM:99:VAL:HG12	2.03	0.40
7:JM:59:MET:HE2	7:JM:59:MET:HB3	1.88	0.40
6:YM:105:LEU:HD23	6:YM:105:LEU:HA	1.95	0.40
6:aM:33:ARG:HH12	6:aM:147:GLN:HB3	1.86	0.40
6:hM:36:ALA:CB	6:hM:147:GLN:HG3	2.48	0.40
7:FN:24:LEU:HD23	7:FN:24:LEU:HA	1.76	0.40
6:GN:140:VAL:H	6:GN:140:VAL:HG23	1.66	0.40
7:HN:125:ASN:OD1	7:HN:125:ASN:N	2.53	0.40
6:IN:17:ARG:HH22	6:IN:20:SER:H	1.70	0.40
6:IN:82:CYS:HA	29:IN:201:PEB:HHA1	2.03	0.40
6:AO:118:ARG:CZ	6:KO:114:ARG:HD3	2.52	0.40
21:BP:96:MET:HG2	21:BP:148:GLU:HG3	2.02	0.40
20:GP:97:ILE:HD12	23:WP:19:LEU:CD1	2.52	0.40
21:IP:96:MET:HG2	21:IP:148:GLU:HG3	2.02	0.40
20:JP:19:SER:HB2	20:JP:20:PRO:HD2	2.04	0.40
20:KP:19:SER:HB2	20:KP:20:PRO:HD2	2.04	0.40
21:QP:33:THR:O	21:QP:37:ARG:HG3	2.21	0.40
20:TP:127:ALA:O	20:TP:157:LEU:HD21	2.22	0.40
21:UP:33:THR:O	21:UP:37:ARG:HG3	2.21	0.40
25:YP:400:GLU:CG	25:YP:401:PRO:HD2	2.51	0.40
28:bP:166:LEU:HD23	28:bP:166:LEU:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:fP:96:MET:HG2	21:fP:148:GLU:HG3	2.02	0.40
20:gP:19:SER:HB2	20:gP:20:PRO:HD2	2.04	0.40
21:hP:96:MET:HE3	21:hP:96:MET:HB3	1.91	0.40
21:jP:24:VAL:HG12	21:jP:28:ARG:HE	1.86	0.40
20:mP:25:ARG:HH12	25:1P:45:SER:N	2.10	0.40
20:pP:106:GLU:OE1	24:zP:129:VAL:HA	2.22	0.40
20:pP:127:ALA:O	20:pP:157:LEU:HD21	2.22	0.40
21:uP:32:GLN:HG2	27:3P:143:ILE:HD11	2.03	0.40
21:uP:107:ARG:HD3	25:1P:777:ASN:O	2.20	0.40
20:vP:127:ALA:O	20:vP:157:LEU:HD21	2.22	0.40
21:wP:61:LEU:HD12	21:wP:61:LEU:HA	1.86	0.40
23:yP:77:ASN:HA	31:yP:1001:CYC:OC	2.22	0.40
7:BQ:164:GLU:O	7:BQ:167:SER:OG	2.36	0.40
7:DQ:65:GLY:O	7:DQ:68:SER:OG	2.29	0.40
6:GQ:157:ASP:OD1	6:GQ:158:TYR:N	2.55	0.40
7:HQ:127:SER:HB2	7:HQ:176:ILE:HD12	2.03	0.40
14:MQ:243:MET:SD	14:MQ:244:GLN:HG3	2.62	0.40
8:eR:57:PHE:CE1	6:OR:112:GLY:HA3	2.50	0.40
6:OR:44:LEU:O	6:OR:48:HIS:HB3	2.22	0.40
6:OR:72:ALA:O	6:OR:78:LYS:HD3	2.22	0.40
6:QR:72:ALA:O	6:QR:78:LYS:HD3	2.22	0.40
6:SR:89:TYR:O	6:SR:93:VAL:HG22	2.22	0.40
6:SR:142:ARG:HG2	6:SR:143:ASP:H	1.82	0.40
6:UR:44:LEU:O	6:UR:48:HIS:HB3	2.22	0.40
6:WR:44:LEU:O	6:WR:48:HIS:HB3	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	X1	322/363 (89%)	296 (92%)	26 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	X7	322/363 (89%)	283 (88%)	38 (12%)	1 (0%)	37	70
1	X9	322/363 (89%)	283 (88%)	37 (12%)	2 (1%)	22	57
1	XF	322/363 (89%)	283 (88%)	39 (12%)	0	100	100
1	XI	322/363 (89%)	283 (88%)	39 (12%)	0	100	100
1	XK	322/363 (89%)	296 (92%)	26 (8%)	0	100	100
2	A1	255/290 (88%)	241 (94%)	14 (6%)	0	100	100
2	A7	255/290 (88%)	237 (93%)	18 (7%)	0	100	100
2	A9	255/290 (88%)	237 (93%)	18 (7%)	0	100	100
2	AF	255/290 (88%)	239 (94%)	16 (6%)	0	100	100
2	AI	255/290 (88%)	239 (94%)	16 (6%)	0	100	100
2	AK	255/290 (88%)	241 (94%)	14 (6%)	0	100	100
3	B1	225/232 (97%)	207 (92%)	17 (8%)	1 (0%)	30	66
3	B7	228/232 (98%)	206 (90%)	21 (9%)	1 (0%)	30	66
3	B9	228/232 (98%)	205 (90%)	22 (10%)	1 (0%)	30	66
3	BF	229/232 (99%)	207 (90%)	22 (10%)	0	100	100
3	BI	229/232 (99%)	208 (91%)	21 (9%)	0	100	100
3	BK	225/232 (97%)	207 (92%)	17 (8%)	1 (0%)	30	66
4	C1	160/162 (99%)	146 (91%)	12 (8%)	2 (1%)	10	39
4	C7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	C9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	CF	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	CI	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	CK	160/162 (99%)	146 (91%)	12 (8%)	2 (1%)	10	39
4	E1	160/162 (99%)	153 (96%)	7 (4%)	0	100	100
4	E7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	E9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	EF	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	EI	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	EK	160/162 (99%)	153 (96%)	7 (4%)	0	100	100
4	G1	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
4	G7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	G9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	GF	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	GI	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	GK	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
4	I1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
4	I7	160/162 (99%)	158 (99%)	1 (1%)	1 (1%)	22	57
4	I9	160/162 (99%)	158 (99%)	1 (1%)	1 (1%)	22	57
4	IF	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	II	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	IK	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
4	K1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
4	K7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	K9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	KF	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	KI	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
4	KK	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
4	M1	160/162 (99%)	152 (95%)	7 (4%)	1 (1%)	22	57
4	M7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	M9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
4	MF	160/162 (99%)	156 (98%)	4 (2%)	0	100	100
4	MI	160/162 (99%)	156 (98%)	4 (2%)	0	100	100
4	MK	160/162 (99%)	152 (95%)	7 (4%)	1 (1%)	22	57
5	D1	169/172 (98%)	165 (98%)	4 (2%)	0	100	100
5	D7	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	D9	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	DF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	DI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	DK	169/172 (98%)	165 (98%)	4 (2%)	0	100	100
5	F1	169/172 (98%)	162 (96%)	6 (4%)	1 (1%)	22	57
5	F7	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	F9	169/172 (98%)	164 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	FF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	FI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	FK	169/172 (98%)	162 (96%)	6 (4%)	1 (1%)	22	57
5	H1	169/172 (98%)	164 (97%)	4 (2%)	1 (1%)	22	57
5	H7	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	H9	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	HF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	HI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	HK	169/172 (98%)	163 (96%)	5 (3%)	1 (1%)	22	57
5	J1	169/172 (98%)	163 (96%)	6 (4%)	0	100	100
5	J7	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	J9	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	JF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	JI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	JK	169/172 (98%)	163 (96%)	6 (4%)	0	100	100
5	L1	169/172 (98%)	162 (96%)	7 (4%)	0	100	100
5	L7	169/172 (98%)	163 (96%)	5 (3%)	1 (1%)	22	57
5	L9	169/172 (98%)	163 (96%)	5 (3%)	1 (1%)	22	57
5	LF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	LI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	LK	169/172 (98%)	162 (96%)	7 (4%)	0	100	100
5	N1	169/172 (98%)	162 (96%)	6 (4%)	1 (1%)	22	57
5	N7	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	N9	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	NF	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	NI	169/172 (98%)	164 (97%)	5 (3%)	0	100	100
5	NK	169/172 (98%)	162 (96%)	6 (4%)	1 (1%)	22	57
6	A3	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	AA	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	AC	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	AE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	AG	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	AJ	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	AL	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	AN	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	AO	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	AQ	162/164 (99%)	148 (91%)	13 (8%)	1 (1%)	22	57
6	B4	162/164 (99%)	147 (91%)	14 (9%)	1 (1%)	22	57
6	BD	162/164 (99%)	147 (91%)	14 (9%)	1 (1%)	22	57
6	C3	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	CA	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	CB	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	CC	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	CE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	CG	162/164 (99%)	148 (91%)	13 (8%)	1 (1%)	22	57
6	CJ	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	CL	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	CM	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	CN	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	CO	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	CQ	162/164 (99%)	148 (91%)	13 (8%)	1 (1%)	22	57
6	D4	162/164 (99%)	147 (91%)	14 (9%)	1 (1%)	22	57
6	DD	162/164 (99%)	147 (91%)	14 (9%)	1 (1%)	22	57
6	E3	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	EA	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	EB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	EC	162/164 (99%)	150 (93%)	12 (7%)	0	100	100
6	EE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	EG	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	EJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	EL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	EM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	EN	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	EO	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	EQ	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	F4	162/164 (99%)	147 (91%)	14 (9%)	1 (1%)	22	57
6	FD	162/164 (99%)	146 (90%)	15 (9%)	1 (1%)	22	57
6	G3	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	GA	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	GB	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	GC	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	GE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	GG	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	GJ	162/164 (99%)	151 (93%)	10 (6%)	1 (1%)	22	57
6	GL	162/164 (99%)	151 (93%)	10 (6%)	1 (1%)	22	57
6	GM	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	GN	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	GO	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	GQ	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	H4	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	HD	162/164 (99%)	146 (90%)	15 (9%)	1 (1%)	22	57
6	I3	162/164 (99%)	154 (95%)	7 (4%)	1 (1%)	22	57
6	IA	162/164 (99%)	157 (97%)	5 (3%)	0	100	100
6	IB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	IC	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	IE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	IG	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	IJ	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	IL	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	IM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	IN	162/164 (99%)	157 (97%)	5 (3%)	0	100	100
6	IO	162/164 (99%)	154 (95%)	7 (4%)	1 (1%)	22	57
6	IQ	162/164 (99%)	149 (92%)	13 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	J4	162/164 (99%)	146 (90%)	15 (9%)	1 (1%)	22	57
6	J5	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	J8	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	JD	162/164 (99%)	146 (90%)	15 (9%)	1 (1%)	22	57
6	K3	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	KA	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	KB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	KC	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	KE	162/164 (99%)	151 (93%)	11 (7%)	0	100	100
6	KG	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	KJ	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	KL	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	KM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	KN	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	KO	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	KQ	162/164 (99%)	149 (92%)	13 (8%)	0	100	100
6	L4	162/164 (99%)	148 (91%)	13 (8%)	1 (1%)	22	57
6	LD	162/164 (99%)	146 (90%)	15 (9%)	1 (1%)	22	57
6	M2	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	MB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	MJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	ML	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	MM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	MR	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	O1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	O2	162/164 (99%)	156 (96%)	5 (3%)	1 (1%)	22	57
6	O7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	O9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	OB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	OF	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	OI	162/164 (99%)	154 (95%)	8 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	OJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	OK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	OL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	OM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	OR	162/164 (99%)	155 (96%)	6 (4%)	1 (1%)	22	57
6	Q1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	Q2	162/164 (99%)	155 (96%)	5 (3%)	2 (1%)	11	41
6	Q7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	Q9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	QB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	QF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	QI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	QJ	162/164 (99%)	150 (93%)	12 (7%)	0	100	100
6	QK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	QL	162/164 (99%)	150 (93%)	12 (7%)	0	100	100
6	QM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	QR	162/164 (99%)	155 (96%)	6 (4%)	1 (1%)	22	57
6	S1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	S2	162/164 (99%)	158 (98%)	4 (2%)	0	100	100
6	S7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	S9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	SB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	SF	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	SI	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	SJ	162/164 (99%)	150 (93%)	11 (7%)	1 (1%)	22	57
6	SK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	SL	162/164 (99%)	150 (93%)	11 (7%)	1 (1%)	22	57
6	SM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	SR	162/164 (99%)	158 (98%)	4 (2%)	0	100	100
6	U1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	U2	162/164 (99%)	155 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	U7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	U9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	UB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	UF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	UI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	UJ	162/164 (99%)	154 (95%)	7 (4%)	1 (1%)	22	57
6	UK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	UL	162/164 (99%)	154 (95%)	7 (4%)	1 (1%)	22	57
6	UM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	UR	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	W1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	W2	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	W7	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	W9	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	WB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	WF	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	WI	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	WJ	162/164 (99%)	151 (93%)	10 (6%)	1 (1%)	22	57
6	WK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	WL	162/164 (99%)	151 (93%)	10 (6%)	1 (1%)	22	57
6	WM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	WR	162/164 (99%)	157 (97%)	5 (3%)	0	100	100
6	YB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	YJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	YL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	YM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	Z1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	Z7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	Z9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	ZF	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	ZI	162/164 (99%)	153 (94%)	9 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	ZK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	aB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	aJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	aL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	aM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	b1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	b7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	b9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	bF	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	bI	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	bK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	cJ	162/164 (99%)	152 (94%)	8 (5%)	2 (1%)	11	41
6	cL	162/164 (99%)	152 (94%)	8 (5%)	2 (1%)	11	41
6	d1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	d7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	d9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	dB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	dF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	dI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	dK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	dM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	eJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	eL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	f1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	f7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	f9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	fB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	fF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	fI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	fK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	fM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	gJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	gL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	h1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	h7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	h9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	hB	162/164 (99%)	154 (95%)	8 (5%)	0	100	100
6	hF	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	hI	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	hK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	hM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	iJ	162/164 (99%)	151 (93%)	9 (6%)	2 (1%)	11	41
6	iL	162/164 (99%)	151 (93%)	9 (6%)	2 (1%)	11	41
6	j1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	j7	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	j9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	jB	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	jF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	jI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	jK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	jM	162/164 (99%)	153 (94%)	9 (6%)	0	100	100
6	kJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	kL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	l1	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	l7	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	l9	162/164 (99%)	155 (96%)	7 (4%)	0	100	100
6	lB	162/164 (99%)	151 (93%)	10 (6%)	1 (1%)	22	57
6	lF	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	lI	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	lK	162/164 (99%)	156 (96%)	6 (4%)	0	100	100
6	lM	162/164 (99%)	150 (93%)	11 (7%)	1 (1%)	22	57
6	mJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	mL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	oJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	oL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	qJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	qL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	sJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	sL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	uJ	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
6	uL	162/164 (99%)	152 (94%)	10 (6%)	0	100	100
7	A5	174/177 (98%)	169 (97%)	4 (2%)	1 (1%)	22	57
7	A8	174/177 (98%)	170 (98%)	3 (2%)	1 (1%)	22	57
7	B3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	B5	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	B8	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	BA	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	BC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	BE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	BG	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	BJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	BL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	BN	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	BO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	BQ	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	C4	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	C5	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	C8	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	CD	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	D3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	DA	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	DB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	DC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	DE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	DG	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	DJ	174/177 (98%)	168 (97%)	4 (2%)	2 (1%)	12	44
7	DL	174/177 (98%)	168 (97%)	4 (2%)	2 (1%)	12	44
7	DM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	DN	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	DO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	DQ	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	E4	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	ED	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	F3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	F5	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	F8	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	FA	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	FB	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	FC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	FE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	FG	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	FJ	174/177 (98%)	164 (94%)	10 (6%)	0	100	100
7	FL	174/177 (98%)	164 (94%)	10 (6%)	0	100	100
7	FM	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	FN	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	FO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	FQ	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	G4	174/177 (98%)	158 (91%)	16 (9%)	0	100	100
7	G5	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	G8	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	GD	174/177 (98%)	158 (91%)	16 (9%)	0	100	100
7	H3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	H5	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	H8	143/177 (81%)	136 (95%)	7 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	HA	175/177 (99%)	163 (93%)	12 (7%)	0	100	100
7	HB	176/177 (99%)	176 (100%)	0	0	100	100
7	HC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	HE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	HG	175/177 (99%)	167 (95%)	8 (5%)	0	100	100
7	HJ	174/177 (98%)	160 (92%)	11 (6%)	3 (2%)	7	33
7	HL	174/177 (98%)	160 (92%)	11 (6%)	3 (2%)	7	33
7	HM	176/177 (99%)	176 (100%)	0	0	100	100
7	HN	175/177 (99%)	163 (93%)	12 (7%)	0	100	100
7	HO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	HQ	175/177 (99%)	167 (95%)	8 (5%)	0	100	100
7	I4	175/177 (99%)	159 (91%)	16 (9%)	0	100	100
7	I5	174/177 (98%)	167 (96%)	4 (2%)	3 (2%)	7	33
7	I8	174/177 (98%)	168 (97%)	3 (2%)	3 (2%)	7	33
7	ID	175/177 (99%)	161 (92%)	14 (8%)	0	100	100
7	J3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	JA	174/177 (98%)	161 (92%)	12 (7%)	1 (1%)	22	57
7	JB	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	JC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	JE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	JG	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	JJ	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	JL	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	JM	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	JN	174/177 (98%)	161 (92%)	12 (7%)	1 (1%)	22	57
7	JO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	JQ	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	K4	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	K5	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	K8	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	KD	174/177 (98%)	159 (91%)	15 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	L3	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	L5	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	L8	143/177 (81%)	136 (95%)	7 (5%)	0	100	100
7	LA	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	LB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	LC	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	LE	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	LG	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	LJ	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	LL	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	LM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	LN	174/177 (98%)	163 (94%)	11 (6%)	0	100	100
7	LO	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	LQ	174/177 (98%)	166 (95%)	8 (5%)	0	100	100
7	M3	143/177 (81%)	128 (90%)	15 (10%)	0	100	100
7	M4	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	MD	174/177 (98%)	159 (91%)	15 (9%)	0	100	100
7	MO	143/177 (81%)	128 (90%)	15 (10%)	0	100	100
7	N2	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	N3	143/177 (81%)	130 (91%)	13 (9%)	0	100	100
7	NB	176/177 (99%)	173 (98%)	2 (1%)	1 (1%)	22	57
7	NJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	NL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	NM	176/177 (99%)	173 (98%)	2 (1%)	1 (1%)	22	57
7	NO	143/177 (81%)	130 (91%)	13 (9%)	0	100	100
7	NR	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	P1	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	P2	175/177 (99%)	167 (95%)	7 (4%)	1 (1%)	22	57
7	P7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	P9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	PB	174/177 (98%)	172 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	PF	174/177 (98%)	169 (97%)	4 (2%)	1 (1%)	22	57
7	PI	174/177 (98%)	169 (97%)	4 (2%)	1 (1%)	22	57
7	PJ	175/177 (99%)	167 (95%)	7 (4%)	1 (1%)	22	57
7	PK	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	PL	175/177 (99%)	167 (95%)	7 (4%)	1 (1%)	22	57
7	PM	174/177 (98%)	172 (99%)	2 (1%)	0	100	100
7	PR	175/177 (99%)	167 (95%)	7 (4%)	1 (1%)	22	57
7	R1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	R2	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	R7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	R9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	RB	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	RF	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	RI	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	RJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	RK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	RL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	RM	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	RR	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	T1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	T2	174/177 (98%)	168 (97%)	4 (2%)	2 (1%)	12	44
7	T7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	T9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	TB	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	TF	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	TI	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	TJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	TK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	TL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	TM	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	TR	174/177 (98%)	168 (97%)	4 (2%)	2 (1%)	12	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	V1	176/177 (99%)	172 (98%)	4 (2%)	0	100	100
7	V2	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	V7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	V9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	VB	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	VF	176/177 (99%)	171 (97%)	5 (3%)	0	100	100
7	VI	176/177 (99%)	171 (97%)	5 (3%)	0	100	100
7	VJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	VK	176/177 (99%)	172 (98%)	4 (2%)	0	100	100
7	VL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	VM	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	VR	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	X2	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	XB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	XJ	175/177 (99%)	172 (98%)	3 (2%)	0	100	100
7	XL	175/177 (99%)	172 (98%)	3 (2%)	0	100	100
7	XM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	XR	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	Y1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	Y7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	Y9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	YF	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	YI	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	YK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	ZB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	ZJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	ZL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	ZM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	a1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	a7	174/177 (98%)	168 (97%)	6 (3%)	0	100	100
7	a9	174/177 (98%)	168 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	aF	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	aI	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	aK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	bJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	bL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	c1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	c7	174/177 (98%)	167 (96%)	6 (3%)	1 (1%)	22	57
7	c9	174/177 (98%)	167 (96%)	6 (3%)	1 (1%)	22	57
7	cB	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	cF	174/177 (98%)	168 (97%)	5 (3%)	1 (1%)	22	57
7	cI	174/177 (98%)	168 (97%)	5 (3%)	1 (1%)	22	57
7	cK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	cM	175/177 (99%)	174 (99%)	1 (1%)	0	100	100
7	dJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	dL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	e1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	e7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	e9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	eB	176/177 (99%)	172 (98%)	2 (1%)	2 (1%)	12	44
7	eF	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	eI	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	eK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	eM	176/177 (99%)	172 (98%)	2 (1%)	2 (1%)	12	44
7	fJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	fL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	g1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	g7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	g9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	gB	176/177 (99%)	176 (100%)	0	0	100	100
7	gF	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	gI	174/177 (98%)	169 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	gK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	gM	176/177 (99%)	176 (100%)	0	0	100	100
7	hJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	hL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	iI	175/177 (99%)	171 (98%)	4 (2%)	0	100	100
7	i7	175/177 (99%)	170 (97%)	5 (3%)	0	100	100
7	i9	175/177 (99%)	170 (97%)	5 (3%)	0	100	100
7	iB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	iF	175/177 (99%)	170 (97%)	5 (3%)	0	100	100
7	iI	175/177 (99%)	170 (97%)	5 (3%)	0	100	100
7	iK	175/177 (99%)	171 (98%)	4 (2%)	0	100	100
7	iM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	jJ	175/177 (99%)	172 (98%)	3 (2%)	0	100	100
7	jL	175/177 (99%)	172 (98%)	3 (2%)	0	100	100
7	k1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	k7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	k9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	kB	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	kF	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	kI	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	kK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	kM	176/177 (99%)	174 (99%)	2 (1%)	0	100	100
7	lJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	lL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	m1	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	m7	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	m9	174/177 (98%)	169 (97%)	5 (3%)	0	100	100
7	mB	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	mF	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	mI	174/177 (98%)	170 (98%)	4 (2%)	0	100	100
7	mK	174/177 (98%)	170 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	mM	176/177 (99%)	175 (99%)	1 (1%)	0	100	100
7	nJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	nL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	pJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	pL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	rJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	rL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	tJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	tL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	vJ	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
7	vL	174/177 (98%)	171 (98%)	3 (2%)	0	100	100
8	e2	246/303 (81%)	223 (91%)	21 (8%)	2 (1%)	16	51
8	eR	246/303 (81%)	224 (91%)	20 (8%)	2 (1%)	16	51
9	O3	373/405 (92%)	344 (92%)	29 (8%)	0	100	100
9	OO	373/405 (92%)	344 (92%)	29 (8%)	0	100	100
10	d4	295/342 (86%)	260 (88%)	33 (11%)	2 (1%)	19	54
10	dD	295/342 (86%)	260 (88%)	34 (12%)	1 (0%)	37	70
11	D5	79/327 (24%)	73 (92%)	6 (8%)	0	100	100
11	D8	79/327 (24%)	73 (92%)	6 (8%)	0	100	100
12	E5	199/288 (69%)	192 (96%)	7 (4%)	0	100	100
12	E8	199/288 (69%)	192 (96%)	7 (4%)	0	100	100
13	k6	283/288 (98%)	257 (91%)	26 (9%)	0	100	100
13	kH	283/288 (98%)	257 (91%)	25 (9%)	1 (0%)	30	66
14	MA	236/333 (71%)	221 (94%)	14 (6%)	1 (0%)	30	66
14	MG	236/333 (71%)	208 (88%)	24 (10%)	4 (2%)	7	33
14	MN	236/333 (71%)	220 (93%)	16 (7%)	0	100	100
14	MQ	236/333 (71%)	209 (89%)	25 (11%)	2 (1%)	16	51
15	bB	378/490 (77%)	352 (93%)	23 (6%)	3 (1%)	16	51
15	bM	378/490 (77%)	351 (93%)	24 (6%)	3 (1%)	16	51
16	AB	236/273 (86%)	229 (97%)	6 (2%)	1 (0%)	30	66
16	AM	236/273 (86%)	229 (97%)	6 (2%)	1 (0%)	30	66

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
16	wJ	236/273 (86%)	221 (94%)	12 (5%)	3 (1%)	10	39
16	wL	236/273 (86%)	221 (94%)	12 (5%)	3 (1%)	10	39
16	xJ	236/273 (86%)	221 (94%)	13 (6%)	2 (1%)	16	51
16	xL	236/273 (86%)	221 (94%)	13 (6%)	2 (1%)	16	51
17	BB	248/290 (86%)	241 (97%)	7 (3%)	0	100	100
17	BM	248/290 (86%)	241 (97%)	7 (3%)	0	100	100
17	yJ	248/290 (86%)	239 (96%)	9 (4%)	0	100	100
17	yL	248/290 (86%)	239 (96%)	9 (4%)	0	100	100
18	MC	278/316 (88%)	214 (77%)	50 (18%)	14 (5%)	1	10
18	ME	278/316 (88%)	210 (76%)	51 (18%)	17 (6%)	1	7
19	zJ	368/498 (74%)	339 (92%)	26 (7%)	3 (1%)	16	51
19	zL	368/498 (74%)	339 (92%)	26 (7%)	3 (1%)	16	51
20	AP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	CP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	EP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	GP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	JP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
20	KP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	NP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	PP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	RP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	TP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	cP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	eP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	gP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	iP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	lP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	mP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	pP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	rP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
20	tP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	vP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
21	BP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
21	DP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	FP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	HP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	IP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	LP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	MP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	OP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
21	QP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	SP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	UP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	dP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	fP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	hP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	jP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	kP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	nP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	oP	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
21	qP	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
21	sP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	uP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
21	wP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
22	VP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
22	xP	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
23	WP	171/173 (99%)	164 (96%)	7 (4%)	0	100	100
23	yP	171/173 (99%)	164 (96%)	7 (4%)	0	100	100
24	XP	90/132 (68%)	87 (97%)	3 (3%)	0	100	100
24	zP	90/132 (68%)	87 (97%)	3 (3%)	0	100	100
25	1P	840/879 (96%)	787 (94%)	53 (6%)	0	100	100
25	YP	840/879 (96%)	788 (94%)	50 (6%)	2 (0%)	44	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	2P	130/159 (82%)	119 (92%)	11 (8%)	0	100	100
26	ZP	130/159 (82%)	117 (90%)	13 (10%)	0	100	100
27	3P	251/288 (87%)	228 (91%)	22 (9%)	1 (0%)	30	66
27	aP	251/288 (87%)	229 (91%)	21 (8%)	1 (0%)	30	66
28	4P	205/253 (81%)	191 (93%)	14 (7%)	0	100	100
28	bP	205/253 (81%)	191 (93%)	13 (6%)	1 (0%)	25	61
All	All	115760/120800 (96%)	110526 (96%)	5057 (4%)	177 (0%)	45	77

All (177) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	C1	13	ASP
5	N1	18	PHE
6	Q2	146	ALA
6	I3	143	ASP
10	d4	284	LEU
6	B4	114	ARG
6	D4	114	ARG
6	F4	114	ARG
6	J4	114	ARG
6	L4	114	ARG
7	I5	33	ASP
7	A5	76	ASN
1	X7	325	LYS
7	I8	33	ASP
7	A8	76	ASN
1	X9	325	LYS
6	lB	58	ALA
18	MC	51	PRO
18	MC	63	ASP
18	MC	66	ASP
18	MC	216	ARG
18	MC	256	THR
18	MC	258	THR
10	dD	288	ARG
6	BD	114	ARG
6	DD	114	ARG
6	FD	114	ARG
6	HD	114	ARG
6	JD	114	ARG

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Mol	Chain	Res	Type
6	LD	114	ARG
18	ME	51	PRO
18	ME	63	ASP
18	ME	66	ASP
18	ME	144	ARG
18	ME	216	ARG
18	ME	256	THR
18	ME	258	THR
18	ME	305	ALA
14	MG	256	THR
14	MG	257	THR
7	HJ	134	MET
7	PJ	21	GLY
6	UJ	72	ALA
16	xJ	43	LYS
19	zJ	216	TYR
19	zJ	217	ALA
4	CK	13	ASP
5	NK	18	PHE
7	HL	134	MET
7	PL	21	GLY
6	UL	72	ALA
16	xL	43	LYS
19	zL	216	TYR
19	zL	217	ALA
15	bM	349	LYS
6	lM	58	ALA
6	IO	143	ASP
28	bP	42	ALA
14	MQ	256	THR
14	MQ	257	THR
6	QR	146	ALA
5	F1	18	PHE
5	H1	146	THR
4	M1	113	ALA
8	e2	86	LEU
7	I5	15	LYS
7	I5	22	SER
4	I7	112	VAL
7	I8	15	LYS
7	I8	22	SER
4	I9	112	VAL

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Mol	Chain	Res	Type
7	JA	21	GLY
14	MA	99	GLY
18	MC	52	GLU
18	MC	215	THR
18	MC	221	ALA
18	MC	260	PRO
18	ME	52	GLU
18	ME	215	THR
18	ME	221	ALA
18	ME	260	PRO
7	PF	3	ASP
7	cF	146	ALA
14	MG	105	LYS
7	PI	3	ASP
7	cI	146	ALA
6	GJ	68	ASN
16	wJ	41	ASN
16	wJ	45	SER
5	FK	18	PHE
5	HK	146	THR
4	MK	113	ALA
6	GL	68	ASN
16	wL	41	ASN
16	wL	45	SER
7	JN	21	GLY
25	YP	516	SER
8	eR	86	LEU
3	B1	201	SER
6	O2	114	ARG
7	T2	109	CYS
7	c7	125	ASN
7	c9	125	ASN
16	AB	146	PRO
7	eB	64	PRO
18	ME	151	GLU
13	kH	164	GLY
7	DJ	25	GLN
7	HJ	26	ALA
6	iJ	70	GLY
19	zJ	238	LYS
3	BK	201	SER
7	DL	25	GLN

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Mol	Chain	Res	Type
7	HL	26	ALA
6	iL	70	GLY
19	zL	238	LYS
16	AM	146	PRO
7	eM	64	PRO
27	aP	287	LEU
27	3P	287	LEU
6	AQ	3	SER
6	OR	114	ARG
7	TR	109	CYS
8	e2	128	ARG
7	P2	107	ASP
3	B7	39	SER
3	B9	39	SER
15	bB	204	CYS
7	eB	61	CYS
18	MC	307	PRO
18	ME	307	PRO
6	CG	34	SER
7	HJ	69	PRO
6	SJ	72	ALA
6	WJ	69	PRO
7	HL	69	PRO
6	SL	72	ALA
6	WL	69	PRO
15	bM	204	CYS
7	eM	61	CYS
6	CQ	34	SER
8	eR	128	ARG
7	PR	107	ASP
4	C1	115	LEU
6	Q2	143	ASP
10	d4	286	GLY
15	bB	351	ASP
7	NB	61	CYS
7	DJ	16	ALA
6	cJ	70	GLY
16	wJ	146	PRO
16	xJ	146	PRO
4	CK	115	LEU
7	DL	16	ALA
6	cL	70	GLY

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Mol	Chain	Res	Type
16	wL	146	PRO
16	xL	146	PRO
7	NM	61	CYS
25	YP	663	LYS
7	T2	111	ASN
5	L7	75	THR
1	X9	104	ALA
5	L9	75	THR
6	iJ	69	PRO
6	iL	69	PRO
7	TR	111	ASN
18	MC	306	LYS
18	ME	306	LYS
15	bB	91	ILE
18	MC	308	ILE
18	ME	308	ILE
14	MG	106	ASP
15	bM	91	ILE
18	MC	61	VAL
18	ME	61	VAL
6	cJ	69	PRO
6	cL	69	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	X1	261/290 (90%)	259 (99%)	2 (1%)	79	90
1	X7	261/290 (90%)	257 (98%)	4 (2%)	60	83
1	X9	261/290 (90%)	257 (98%)	4 (2%)	60	83
1	XF	261/290 (90%)	260 (100%)	1 (0%)	89	95
1	XI	260/290 (90%)	259 (100%)	1 (0%)	89	95
1	XK	261/290 (90%)	259 (99%)	2 (1%)	79	90
2	A1	199/222 (90%)	196 (98%)	3 (2%)	60	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A7	199/222 (90%)	199 (100%)	0	100	100
2	A9	199/222 (90%)	199 (100%)	0	100	100
2	AF	199/222 (90%)	198 (100%)	1 (0%)	86	94
2	AI	199/222 (90%)	198 (100%)	1 (0%)	86	94
2	AK	199/222 (90%)	196 (98%)	3 (2%)	60	83
3	B1	208/211 (99%)	202 (97%)	6 (3%)	37	70
3	B7	209/211 (99%)	197 (94%)	12 (6%)	17	49
3	B9	209/211 (99%)	197 (94%)	12 (6%)	17	49
3	BF	210/211 (100%)	208 (99%)	2 (1%)	73	88
3	BI	210/211 (100%)	208 (99%)	2 (1%)	73	88
3	BK	208/211 (99%)	202 (97%)	6 (3%)	37	70
4	C1	125/125 (100%)	117 (94%)	8 (6%)	14	44
4	C7	125/125 (100%)	112 (90%)	13 (10%)	5	23
4	C9	125/125 (100%)	112 (90%)	13 (10%)	5	23
4	CF	125/125 (100%)	125 (100%)	0	100	100
4	CI	125/125 (100%)	124 (99%)	1 (1%)	79	90
4	CK	125/125 (100%)	117 (94%)	8 (6%)	14	44
4	E1	125/125 (100%)	117 (94%)	8 (6%)	14	44
4	E7	125/125 (100%)	113 (90%)	12 (10%)	7	27
4	E9	125/125 (100%)	113 (90%)	12 (10%)	7	27
4	EF	125/125 (100%)	125 (100%)	0	100	100
4	EI	125/125 (100%)	124 (99%)	1 (1%)	79	90
4	EK	125/125 (100%)	117 (94%)	8 (6%)	14	44
4	G1	125/125 (100%)	120 (96%)	5 (4%)	27	61
4	G7	125/125 (100%)	113 (90%)	12 (10%)	7	27
4	G9	125/125 (100%)	113 (90%)	12 (10%)	7	27
4	GF	125/125 (100%)	125 (100%)	0	100	100
4	GI	125/125 (100%)	125 (100%)	0	100	100
4	GK	125/125 (100%)	120 (96%)	5 (4%)	27	61
4	I1	125/125 (100%)	124 (99%)	1 (1%)	79	90
4	I7	125/125 (100%)	113 (90%)	12 (10%)	7	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	I9	125/125 (100%)	113 (90%)	12 (10%)	7	27
4	IF	125/125 (100%)	125 (100%)	0	100	100
4	II	125/125 (100%)	125 (100%)	0	100	100
4	IK	125/125 (100%)	125 (100%)	0	100	100
4	K1	125/125 (100%)	123 (98%)	2 (2%)	58	82
4	K7	125/125 (100%)	112 (90%)	13 (10%)	5	23
4	K9	125/125 (100%)	112 (90%)	13 (10%)	5	23
4	KF	125/125 (100%)	125 (100%)	0	100	100
4	KI	125/125 (100%)	125 (100%)	0	100	100
4	KK	125/125 (100%)	123 (98%)	2 (2%)	58	82
4	M1	125/125 (100%)	120 (96%)	5 (4%)	27	61
4	M7	125/125 (100%)	115 (92%)	10 (8%)	10	35
4	M9	125/125 (100%)	114 (91%)	11 (9%)	8	31
4	MF	125/125 (100%)	125 (100%)	0	100	100
4	MI	125/125 (100%)	125 (100%)	0	100	100
4	MK	125/125 (100%)	120 (96%)	5 (4%)	27	61
5	D1	134/134 (100%)	127 (95%)	7 (5%)	19	52
5	D7	134/134 (100%)	112 (84%)	22 (16%)	2	9
5	D9	134/134 (100%)	112 (84%)	22 (16%)	2	9
5	DF	134/134 (100%)	134 (100%)	0	100	100
5	DI	134/134 (100%)	134 (100%)	0	100	100
5	DK	134/134 (100%)	127 (95%)	7 (5%)	19	52
5	F1	134/134 (100%)	126 (94%)	8 (6%)	16	47
5	F7	134/134 (100%)	109 (81%)	25 (19%)	1	7
5	F9	134/134 (100%)	112 (84%)	22 (16%)	2	9
5	FF	134/134 (100%)	133 (99%)	1 (1%)	81	91
5	FI	134/134 (100%)	134 (100%)	0	100	100
5	FK	134/134 (100%)	125 (93%)	9 (7%)	13	43
5	H1	134/134 (100%)	130 (97%)	4 (3%)	36	69
5	H7	134/134 (100%)	110 (82%)	24 (18%)	1	8
5	H9	134/134 (100%)	110 (82%)	24 (18%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	HF	134/134 (100%)	134 (100%)	0	100	100
5	HI	134/134 (100%)	134 (100%)	0	100	100
5	HK	134/134 (100%)	130 (97%)	4 (3%)	36	69
5	J1	134/134 (100%)	124 (92%)	10 (8%)	11	38
5	J7	134/134 (100%)	114 (85%)	20 (15%)	2	12
5	J9	134/134 (100%)	114 (85%)	20 (15%)	2	12
5	JF	134/134 (100%)	134 (100%)	0	100	100
5	JI	134/134 (100%)	132 (98%)	2 (2%)	60	83
5	JK	134/134 (100%)	123 (92%)	11 (8%)	9	34
5	L1	134/134 (100%)	129 (96%)	5 (4%)	29	63
5	L7	134/134 (100%)	115 (86%)	19 (14%)	2	13
5	L9	134/134 (100%)	115 (86%)	19 (14%)	2	13
5	LF	134/134 (100%)	132 (98%)	2 (2%)	60	83
5	LI	134/134 (100%)	132 (98%)	2 (2%)	60	83
5	LK	134/134 (100%)	129 (96%)	5 (4%)	29	63
5	N1	134/134 (100%)	127 (95%)	7 (5%)	19	52
5	N7	134/134 (100%)	115 (86%)	19 (14%)	2	13
5	N9	134/134 (100%)	115 (86%)	19 (14%)	2	13
5	NF	134/134 (100%)	132 (98%)	2 (2%)	60	83
5	NI	134/134 (100%)	132 (98%)	2 (2%)	60	83
5	NK	134/134 (100%)	127 (95%)	7 (5%)	19	52
6	A3	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	AA	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	AC	128/128 (100%)	121 (94%)	7 (6%)	18	50
6	AE	128/128 (100%)	121 (94%)	7 (6%)	18	50
6	AG	128/128 (100%)	112 (88%)	16 (12%)	3	17
6	AJ	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	AL	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	AN	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	AO	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	AQ	128/128 (100%)	112 (88%)	16 (12%)	3	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	B4	128/128 (100%)	112 (88%)	16 (12%)	3	17
6	BD	128/128 (100%)	112 (88%)	16 (12%)	3	17
6	C3	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	CA	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	CB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	CC	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	CE	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	CG	128/128 (100%)	107 (84%)	21 (16%)	2	9
6	CJ	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	CL	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	CM	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	CN	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	CO	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	CQ	128/128 (100%)	107 (84%)	21 (16%)	2	9
6	D4	128/128 (100%)	103 (80%)	25 (20%)	1	6
6	DD	128/128 (100%)	103 (80%)	25 (20%)	1	6
6	E3	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	EA	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	EB	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	EC	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	EE	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	EG	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	EJ	128/128 (100%)	128 (100%)	0	100	100
6	EL	128/128 (100%)	128 (100%)	0	100	100
6	EM	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	EN	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	EO	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	EQ	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	F4	128/128 (100%)	101 (79%)	27 (21%)	1	4
6	FD	128/128 (100%)	100 (78%)	28 (22%)	1	4
6	G3	128/128 (100%)	118 (92%)	10 (8%)	10	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	GA	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	GB	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	GC	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	GE	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	GG	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	GJ	128/128 (100%)	120 (94%)	8 (6%)	15	45
6	GL	128/128 (100%)	121 (94%)	7 (6%)	18	50
6	GM	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	GN	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	GO	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	GQ	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	H4	128/128 (100%)	102 (80%)	26 (20%)	1	5
6	HD	128/128 (100%)	102 (80%)	26 (20%)	1	5
6	I3	128/128 (100%)	115 (90%)	13 (10%)	6	24
6	IA	128/128 (100%)	115 (90%)	13 (10%)	6	24
6	IB	128/128 (100%)	128 (100%)	0	100	100
6	IC	128/128 (100%)	121 (94%)	7 (6%)	18	50
6	IE	128/128 (100%)	121 (94%)	7 (6%)	18	50
6	IG	128/128 (100%)	109 (85%)	19 (15%)	2	12
6	IJ	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	IL	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	IM	128/128 (100%)	128 (100%)	0	100	100
6	IN	128/128 (100%)	115 (90%)	13 (10%)	6	24
6	IO	128/128 (100%)	115 (90%)	13 (10%)	6	24
6	IQ	128/128 (100%)	109 (85%)	19 (15%)	2	12
6	J4	128/128 (100%)	106 (83%)	22 (17%)	1	8
6	J5	128/128 (100%)	128 (100%)	0	100	100
6	J8	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	JD	128/128 (100%)	106 (83%)	22 (17%)	1	8
6	K3	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	KA	128/128 (100%)	117 (91%)	11 (9%)	8	32

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	KB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	KC	128/128 (100%)	120 (94%)	8 (6%)	15	45
6	KE	128/128 (100%)	120 (94%)	8 (6%)	15	45
6	KG	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	KJ	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	KL	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	KM	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	KN	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	KO	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	KQ	128/128 (100%)	108 (84%)	20 (16%)	2	11
6	L4	128/128 (100%)	103 (80%)	25 (20%)	1	6
6	LD	128/128 (100%)	104 (81%)	24 (19%)	1	7
6	M2	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	MB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	MJ	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	ML	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	MM	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	MR	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	O1	128/128 (100%)	128 (100%)	0	100	100
6	O2	128/128 (100%)	120 (94%)	8 (6%)	15	45
6	O7	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	O9	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	OB	128/128 (100%)	128 (100%)	0	100	100
6	OF	128/128 (100%)	128 (100%)	0	100	100
6	OI	128/128 (100%)	128 (100%)	0	100	100
6	OJ	128/128 (100%)	128 (100%)	0	100	100
6	OK	128/128 (100%)	128 (100%)	0	100	100
6	OL	128/128 (100%)	128 (100%)	0	100	100
6	OM	128/128 (100%)	128 (100%)	0	100	100
6	OR	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	Q1	128/128 (100%)	128 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Q2	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	Q7	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	Q9	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	QB	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	QF	128/128 (100%)	128 (100%)	0	100	100
6	QI	128/128 (100%)	128 (100%)	0	100	100
6	QJ	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	QK	128/128 (100%)	128 (100%)	0	100	100
6	QL	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	QM	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	QR	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	S1	128/128 (100%)	128 (100%)	0	100	100
6	S2	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	S7	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	S9	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	SB	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	SF	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	SI	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	SJ	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	SK	128/128 (100%)	128 (100%)	0	100	100
6	SL	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	SM	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	SR	128/128 (100%)	125 (98%)	3 (2%)	45	75
6	U1	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	U2	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	U7	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	U9	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	UB	128/128 (100%)	128 (100%)	0	100	100
6	UF	128/128 (100%)	128 (100%)	0	100	100
6	UI	128/128 (100%)	128 (100%)	0	100	100
6	UJ	128/128 (100%)	123 (96%)	5 (4%)	27	61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	UK	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	UL	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	UM	128/128 (100%)	128 (100%)	0	100	100
6	UR	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	W1	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	W2	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	W7	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	W9	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	WB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	WF	128/128 (100%)	128 (100%)	0	100	100
6	WI	128/128 (100%)	128 (100%)	0	100	100
6	WJ	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	WK	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	WL	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	WM	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	WR	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	YB	128/128 (100%)	128 (100%)	0	100	100
6	YJ	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	YL	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	YM	128/128 (100%)	128 (100%)	0	100	100
6	Z1	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	Z7	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	Z9	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	ZF	128/128 (100%)	128 (100%)	0	100	100
6	ZI	128/128 (100%)	128 (100%)	0	100	100
6	ZK	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	aB	128/128 (100%)	128 (100%)	0	100	100
6	aJ	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	aL	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	aM	128/128 (100%)	128 (100%)	0	100	100
6	b1	128/128 (100%)	128 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	b7	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	b9	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	bF	128/128 (100%)	128 (100%)	0	100	100
6	bI	128/128 (100%)	128 (100%)	0	100	100
6	bK	128/128 (100%)	128 (100%)	0	100	100
6	cJ	128/128 (100%)	125 (98%)	3 (2%)	45	75
6	cL	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	d1	128/128 (100%)	128 (100%)	0	100	100
6	d7	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	d9	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	dB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	dF	128/128 (100%)	128 (100%)	0	100	100
6	dI	128/128 (100%)	128 (100%)	0	100	100
6	dK	128/128 (100%)	128 (100%)	0	100	100
6	dM	128/128 (100%)	128 (100%)	0	100	100
6	eJ	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	eL	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	f1	128/128 (100%)	128 (100%)	0	100	100
6	f7	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	f9	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	fB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	fF	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	fI	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	fK	128/128 (100%)	128 (100%)	0	100	100
6	fM	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	gJ	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	gL	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	h1	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	h7	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	h9	128/128 (100%)	116 (91%)	12 (9%)	7	28
6	hB	128/128 (100%)	128 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	hF	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	hI	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	hK	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	hM	128/128 (100%)	128 (100%)	0	100	100
6	iJ	128/128 (100%)	125 (98%)	3 (2%)	45	75
6	iL	128/128 (100%)	125 (98%)	3 (2%)	45	75
6	j1	128/128 (100%)	128 (100%)	0	100	100
6	j7	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	j9	128/128 (100%)	117 (91%)	11 (9%)	8	32
6	jB	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	jF	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	jI	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	jK	128/128 (100%)	128 (100%)	0	100	100
6	jM	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	kJ	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	kL	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	l1	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	l7	128/128 (100%)	118 (92%)	10 (8%)	10	36
6	l9	128/128 (100%)	119 (93%)	9 (7%)	12	41
6	lB	128/128 (100%)	127 (99%)	1 (1%)	79	90
6	lF	128/128 (100%)	128 (100%)	0	100	100
6	lI	128/128 (100%)	128 (100%)	0	100	100
6	lK	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	lM	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	mJ	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	mL	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	oJ	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	oL	128/128 (100%)	126 (98%)	2 (2%)	58	82
6	qJ	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	qL	128/128 (100%)	122 (95%)	6 (5%)	22	56
6	sJ	128/128 (100%)	123 (96%)	5 (4%)	27	61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	sL	128/128 (100%)	123 (96%)	5 (4%)	27	61
6	uJ	128/128 (100%)	124 (97%)	4 (3%)	35	68
6	uL	128/128 (100%)	124 (97%)	4 (3%)	35	68
7	A5	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	A8	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	B3	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	B5	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	B8	113/137 (82%)	107 (95%)	6 (5%)	19	51
7	BA	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	BC	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	BE	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	BG	137/137 (100%)	125 (91%)	12 (9%)	8	31
7	BJ	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	BL	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	BN	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	BO	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	BQ	137/137 (100%)	125 (91%)	12 (9%)	8	31
7	C4	137/137 (100%)	102 (74%)	35 (26%)	0	2
7	C5	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	C8	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	CD	137/137 (100%)	102 (74%)	35 (26%)	0	2
7	D3	137/137 (100%)	129 (94%)	8 (6%)	17	48
7	DA	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	DB	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	DC	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	DE	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	DG	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	DJ	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	DL	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	DM	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	DN	137/137 (100%)	128 (93%)	9 (7%)	14	43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	DO	137/137 (100%)	129 (94%)	8 (6%)	17	48
7	DQ	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	E4	137/137 (100%)	103 (75%)	34 (25%)	0	2
7	ED	137/137 (100%)	102 (74%)	35 (26%)	0	2
7	F3	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	F5	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	F8	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	FA	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	FB	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	FC	137/137 (100%)	117 (85%)	20 (15%)	2	12
7	FE	137/137 (100%)	117 (85%)	20 (15%)	2	12
7	FG	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	FJ	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	FL	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	FM	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	FN	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	FO	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	FQ	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	G4	137/137 (100%)	100 (73%)	37 (27%)	0	2
7	G5	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	G8	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	GD	137/137 (100%)	101 (74%)	36 (26%)	0	2
7	H3	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	H5	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	H8	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	HA	138/137 (101%)	126 (91%)	12 (9%)	8	32
7	HB	139/137 (102%)	133 (96%)	6 (4%)	25	58
7	HC	137/137 (100%)	117 (85%)	20 (15%)	2	12
7	HE	137/137 (100%)	117 (85%)	20 (15%)	2	12
7	HG	138/137 (101%)	124 (90%)	14 (10%)	6	25
7	HJ	137/137 (100%)	116 (85%)	21 (15%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	HL	137/137 (100%)	116 (85%)	21 (15%)	2	11
7	HM	139/137 (102%)	133 (96%)	6 (4%)	25	58
7	HN	138/137 (101%)	126 (91%)	12 (9%)	8	32
7	HO	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	HQ	138/137 (101%)	124 (90%)	14 (10%)	6	25
7	I4	138/137 (101%)	112 (81%)	26 (19%)	1	7
7	I5	137/137 (100%)	119 (87%)	18 (13%)	3	15
7	I8	137/137 (100%)	119 (87%)	18 (13%)	3	15
7	ID	138/137 (101%)	111 (80%)	27 (20%)	1	6
7	J3	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	JA	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	JB	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	JC	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	JE	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	JG	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	JJ	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	JL	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	JM	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	JN	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	JO	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	JQ	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	K4	137/137 (100%)	105 (77%)	32 (23%)	0	3
7	K5	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	K8	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	KD	137/137 (100%)	105 (77%)	32 (23%)	0	3
7	L3	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	L5	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	L8	113/137 (82%)	105 (93%)	8 (7%)	12	40
7	LA	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	LB	139/137 (102%)	139 (100%)	0	100	100
7	LC	137/137 (100%)	119 (87%)	18 (13%)	3	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	LE	137/137 (100%)	119 (87%)	18 (13%)	3	15
7	LG	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	LJ	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	LL	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	LM	139/137 (102%)	139 (100%)	0	100	100
7	LN	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	LO	137/137 (100%)	128 (93%)	9 (7%)	14	43
7	LQ	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	M3	113/137 (82%)	102 (90%)	11 (10%)	6	27
7	M4	137/137 (100%)	103 (75%)	34 (25%)	0	2
7	MD	137/137 (100%)	103 (75%)	34 (25%)	0	2
7	MO	113/137 (82%)	102 (90%)	11 (10%)	6	27
7	N2	137/137 (100%)	131 (96%)	6 (4%)	24	58
7	N3	113/137 (82%)	102 (90%)	11 (10%)	6	27
7	NB	139/137 (102%)	132 (95%)	7 (5%)	20	53
7	NJ	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	NL	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	NM	139/137 (102%)	133 (96%)	6 (4%)	25	58
7	NO	113/137 (82%)	102 (90%)	11 (10%)	6	27
7	NR	137/137 (100%)	131 (96%)	6 (4%)	24	58
7	P1	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	P2	138/137 (101%)	133 (96%)	5 (4%)	30	64
7	P7	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	P9	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	PB	137/137 (100%)	137 (100%)	0	100	100
7	PF	137/137 (100%)	137 (100%)	0	100	100
7	PI	137/137 (100%)	137 (100%)	0	100	100
7	PJ	138/137 (101%)	132 (96%)	6 (4%)	25	58
7	PK	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	PL	138/137 (101%)	132 (96%)	6 (4%)	25	58
7	PM	137/137 (100%)	137 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	PR	138/137 (101%)	133 (96%)	5 (4%)	30	64
7	R1	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	R2	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	R7	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	R9	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	RB	138/137 (101%)	133 (96%)	5 (4%)	30	64
7	RF	137/137 (100%)	137 (100%)	0	100	100
7	RI	137/137 (100%)	137 (100%)	0	100	100
7	RJ	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	RK	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	RL	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	RM	138/137 (101%)	133 (96%)	5 (4%)	30	64
7	RR	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	T1	137/137 (100%)	137 (100%)	0	100	100
7	T2	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	T7	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	T9	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	TB	138/137 (101%)	134 (97%)	4 (3%)	37	70
7	TF	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	TI	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	TJ	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	TK	137/137 (100%)	137 (100%)	0	100	100
7	TL	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	TM	138/137 (101%)	134 (97%)	4 (3%)	37	70
7	TR	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	V1	139/137 (102%)	139 (100%)	0	100	100
7	V2	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	V7	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	V9	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	VB	139/137 (102%)	136 (98%)	3 (2%)	47	76
7	VF	139/137 (102%)	139 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	VI	139/137 (102%)	139 (100%)	0	100	100
7	VJ	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	VK	139/137 (102%)	139 (100%)	0	100	100
7	VL	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	VM	139/137 (102%)	136 (98%)	3 (2%)	47	76
7	VR	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	X2	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	XB	139/137 (102%)	139 (100%)	0	100	100
7	XJ	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	XL	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	XM	139/137 (102%)	139 (100%)	0	100	100
7	XR	137/137 (100%)	130 (95%)	7 (5%)	20	53
7	Y1	137/137 (100%)	137 (100%)	0	100	100
7	Y7	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	Y9	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	YF	137/137 (100%)	137 (100%)	0	100	100
7	YI	137/137 (100%)	137 (100%)	0	100	100
7	YK	137/137 (100%)	137 (100%)	0	100	100
7	ZB	139/137 (102%)	134 (96%)	5 (4%)	30	64
7	ZJ	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	ZL	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	ZM	139/137 (102%)	134 (96%)	5 (4%)	30	64
7	a1	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	a7	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	a9	137/137 (100%)	121 (88%)	16 (12%)	4	19
7	aF	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	aI	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	aK	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	bJ	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	bL	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	c1	137/137 (100%)	137 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	c7	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	c9	137/137 (100%)	123 (90%)	14 (10%)	6	24
7	cB	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	cF	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	cI	137/137 (100%)	134 (98%)	3 (2%)	47	76
7	cK	137/137 (100%)	137 (100%)	0	100	100
7	cM	138/137 (101%)	137 (99%)	1 (1%)	81	91
7	dJ	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	dL	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	e1	137/137 (100%)	137 (100%)	0	100	100
7	e7	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	e9	137/137 (100%)	120 (88%)	17 (12%)	4	17
7	eB	139/137 (102%)	136 (98%)	3 (2%)	47	76
7	eF	137/137 (100%)	137 (100%)	0	100	100
7	eI	137/137 (100%)	137 (100%)	0	100	100
7	eK	137/137 (100%)	137 (100%)	0	100	100
7	eM	139/137 (102%)	136 (98%)	3 (2%)	47	76
7	fJ	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	fL	137/137 (100%)	133 (97%)	4 (3%)	37	70
7	g1	137/137 (100%)	137 (100%)	0	100	100
7	g7	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	g9	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	gB	139/137 (102%)	135 (97%)	4 (3%)	37	70
7	gF	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	gI	137/137 (100%)	136 (99%)	1 (1%)	81	91
7	gK	137/137 (100%)	137 (100%)	0	100	100
7	gM	139/137 (102%)	135 (97%)	4 (3%)	37	70
7	hJ	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	hL	137/137 (100%)	132 (96%)	5 (4%)	30	64
7	i1	138/137 (101%)	138 (100%)	0	100	100
7	i7	138/137 (101%)	123 (89%)	15 (11%)	5	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	i9	138/137 (101%)	123 (89%)	15 (11%)	5	22
7	iB	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	iF	138/137 (101%)	135 (98%)	3 (2%)	47	76
7	iI	138/137 (101%)	135 (98%)	3 (2%)	47	76
7	iK	138/137 (101%)	138 (100%)	0	100	100
7	iM	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	jJ	138/137 (101%)	134 (97%)	4 (3%)	37	70
7	jL	138/137 (101%)	134 (97%)	4 (3%)	37	70
7	k1	137/137 (100%)	137 (100%)	0	100	100
7	k7	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	k9	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	kB	139/137 (102%)	131 (94%)	8 (6%)	17	48
7	kF	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	kI	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	kK	137/137 (100%)	137 (100%)	0	100	100
7	kM	139/137 (102%)	131 (94%)	8 (6%)	17	48
7	lJ	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	lL	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	m1	137/137 (100%)	137 (100%)	0	100	100
7	m7	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	m9	137/137 (100%)	122 (89%)	15 (11%)	5	22
7	mB	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	mF	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	mI	137/137 (100%)	135 (98%)	2 (2%)	60	83
7	mK	137/137 (100%)	137 (100%)	0	100	100
7	mM	139/137 (102%)	137 (99%)	2 (1%)	62	83
7	nJ	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	nL	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	pJ	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	pL	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	rJ	137/137 (100%)	129 (94%)	8 (6%)	17	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	rL	137/137 (100%)	129 (94%)	8 (6%)	17	48
7	tJ	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	tL	137/137 (100%)	126 (92%)	11 (8%)	10	35
7	vJ	137/137 (100%)	127 (93%)	10 (7%)	11	39
7	vL	137/137 (100%)	127 (93%)	10 (7%)	11	39
8	e2	204/237 (86%)	198 (97%)	6 (3%)	37	70
8	eR	204/237 (86%)	198 (97%)	6 (3%)	37	70
9	O3	312/331 (94%)	311 (100%)	1 (0%)	91	96
9	OO	312/331 (94%)	311 (100%)	1 (0%)	91	96
10	d4	247/278 (89%)	245 (99%)	2 (1%)	79	90
10	dD	247/278 (89%)	244 (99%)	3 (1%)	67	86
11	D5	72/268 (27%)	72 (100%)	0	100	100
11	D8	72/268 (27%)	72 (100%)	0	100	100
12	E5	164/223 (74%)	164 (100%)	0	100	100
12	E8	164/223 (74%)	164 (100%)	0	100	100
13	k6	227/229 (99%)	212 (93%)	15 (7%)	14	43
13	kH	227/229 (99%)	212 (93%)	15 (7%)	14	43
14	MA	184/262 (70%)	181 (98%)	3 (2%)	58	82
14	MG	184/262 (70%)	179 (97%)	5 (3%)	40	71
14	MN	184/262 (70%)	180 (98%)	4 (2%)	47	76
14	MQ	184/262 (70%)	182 (99%)	2 (1%)	70	87
15	bB	304/389 (78%)	298 (98%)	6 (2%)	50	78
15	bM	304/389 (78%)	294 (97%)	10 (3%)	33	67
16	AB	179/203 (88%)	179 (100%)	0	100	100
16	AM	179/203 (88%)	179 (100%)	0	100	100
16	wJ	179/203 (88%)	166 (93%)	13 (7%)	11	39
16	wL	179/203 (88%)	166 (93%)	13 (7%)	11	39
16	xJ	179/203 (88%)	165 (92%)	14 (8%)	10	36
16	xL	179/203 (88%)	166 (93%)	13 (7%)	11	39
17	BB	188/218 (86%)	186 (99%)	2 (1%)	70	87
17	BM	188/218 (86%)	186 (99%)	2 (1%)	70	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	yJ	188/218 (86%)	188 (100%)	0	100	100
17	yL	188/218 (86%)	188 (100%)	0	100	100
18	MC	231/256 (90%)	216 (94%)	15 (6%)	14	43
18	ME	231/256 (90%)	218 (94%)	13 (6%)	17	49
19	zJ	303/406 (75%)	301 (99%)	2 (1%)	81	91
19	zL	303/406 (75%)	300 (99%)	3 (1%)	73	88
20	AP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	CP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	EP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	GP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	JP	130/131 (99%)	115 (88%)	15 (12%)	4	20
20	KP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	NP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	PP	130/131 (99%)	115 (88%)	15 (12%)	4	20
20	RP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	TP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	cP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	eP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	gP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	iP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	lP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	mP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	pP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	rP	130/131 (99%)	115 (88%)	15 (12%)	4	20
20	tP	130/131 (99%)	114 (88%)	16 (12%)	4	18
20	vP	130/131 (99%)	114 (88%)	16 (12%)	4	18
21	BP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	DP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	FP	124/124 (100%)	110 (89%)	14 (11%)	4	21
21	HP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	IP	124/124 (100%)	113 (91%)	11 (9%)	8	31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	LP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	MP	124/124 (100%)	114 (92%)	10 (8%)	9	34
21	OP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	QP	124/124 (100%)	112 (90%)	12 (10%)	6	27
21	SP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	UP	124/124 (100%)	112 (90%)	12 (10%)	6	27
21	dP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	fP	124/124 (100%)	112 (90%)	12 (10%)	6	27
21	hP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	jP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	kP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	nP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	oP	124/124 (100%)	111 (90%)	13 (10%)	5	23
21	qP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	sP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	uP	124/124 (100%)	113 (91%)	11 (9%)	8	31
21	wP	124/124 (100%)	112 (90%)	12 (10%)	6	27
22	VP	133/136 (98%)	132 (99%)	1 (1%)	79	90
22	xP	133/136 (98%)	132 (99%)	1 (1%)	79	90
23	WP	147/153 (96%)	147 (100%)	0	100	100
23	yP	147/153 (96%)	147 (100%)	0	100	100
24	XP	78/101 (77%)	77 (99%)	1 (1%)	65	85
24	zP	78/101 (77%)	77 (99%)	1 (1%)	65	85
25	1P	742/772 (96%)	734 (99%)	8 (1%)	70	87
25	YP	742/772 (96%)	735 (99%)	7 (1%)	75	89
26	2P	106/121 (88%)	106 (100%)	0	100	100
26	ZP	106/121 (88%)	105 (99%)	1 (1%)	75	89
27	3P	194/214 (91%)	187 (96%)	7 (4%)	30	64
27	aP	194/214 (91%)	185 (95%)	9 (5%)	23	56
28	4P	165/199 (83%)	161 (98%)	4 (2%)	44	74
28	bP	165/199 (83%)	161 (98%)	4 (2%)	44	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	91927/94464 (97%)	86969 (95%)	4958 (5%)	21	50

All (4958) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	X1	194	GLU
1	X1	211	LYS
2	A1	101	ILE
2	A1	102	GLN
2	A1	105	GLU
3	B1	203	ILE
3	B1	204	ARG
3	B1	205	ARG
3	B1	207	ARG
3	B1	220	LEU
3	B1	226	GLN
4	C1	33	ARG
4	C1	38	LEU
4	C1	39	THR
4	C1	42	LYS
4	C1	68	GLN
4	C1	112	VAL
4	C1	145	GLN
4	C1	160	THR
5	D1	31	VAL
5	D1	32	LYS
5	D1	39	ASP
5	D1	45	THR
5	D1	62	GLU
5	D1	63	GLN
5	D1	155	SER
4	E1	7	GLU
4	E1	116	GLU
4	E1	120	ARG
4	E1	121	SER
4	E1	140	HIS
4	E1	142	LEU
4	E1	145	GLN
4	E1	148	ASN
5	F1	39	ASP
5	F1	62	GLU
5	F1	63	GLN

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Mol	Chain	Res	Type
5	F1	98	ILE
5	F1	138	SER
5	F1	144	ASP
5	F1	145	THR
5	F1	154	SER
4	G1	2	LYS
4	G1	21	ASN
4	G1	22	THR
4	G1	67	THR
4	G1	112	VAL
5	H1	32	LYS
5	H1	35	ASN
5	H1	38	LEU
5	H1	143	ASN
4	I1	33	ARG
5	J1	21	ASN
5	J1	28	SER
5	J1	29	LYS
5	J1	30	MET
5	J1	31	VAL
5	J1	32	LYS
5	J1	39	ASP
5	J1	40	ILE
5	J1	41	VAL
5	J1	43	LYS
4	K1	32	GLN
4	K1	35	THR
5	L1	20	SER
5	L1	36	GLN
5	L1	38	LEU
5	L1	39	ASP
5	L1	41	VAL
4	M1	38	LEU
4	M1	39	THR
4	M1	42	LYS
4	M1	108	ASP
4	M1	112	VAL
5	N1	19	LEU
5	N1	21	ASN
5	N1	31	VAL
5	N1	37	ARG
5	N1	39	ASP

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Mol	Chain	Res	Type
5	N1	62	GLU
5	N1	98	ILE
7	P1	3	ASP
7	R1	157	ASP
6	U1	157	ASP
6	W1	53	LYS
6	Z1	53	LYS
7	a1	3	ASP
6	h1	4	VAL
6	l1	52	VAL
6	l1	53	LYS
8	e2	58	SER
8	e2	77	PHE
8	e2	84	LYS
8	e2	109	ILE
8	e2	125	ARG
8	e2	128	ARG
6	M2	38	LEU
6	M2	39	GLU
6	M2	43	LYS
6	M2	44	LEU
6	M2	77	GLU
6	M2	86	VAL
6	M2	97	LEU
6	M2	105	LEU
6	M2	118	ARG
7	N2	61	CYS
7	N2	79	MET
7	N2	83	LEU
7	N2	93	VAL
7	N2	134	MET
7	N2	135	LYS
6	O2	38	LEU
6	O2	67	LYS
6	O2	77	GLU
6	O2	116	VAL
6	O2	138	LEU
6	O2	139	CYS
6	O2	160	ILE
6	O2	163	LEU
7	P2	82	CYS
7	P2	105	LEU

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Mol	Chain	Res	Type
7	P2	107	ASP
7	P2	108	ARG
7	P2	161	LEU
6	Q2	136	ASP
6	Q2	139	CYS
6	Q2	142	ARG
6	Q2	144	MET
7	R2	25	GLN
7	R2	160	SER
6	S2	31	ILE
6	S2	90	MET
7	T2	108	ARG
7	T2	109	CYS
6	U2	52	VAL
6	U2	54	GLU
6	U2	114	ARG
6	U2	115	GLU
6	U2	150	VAL
7	V2	28	LYS
7	V2	29	SER
7	V2	31	ILE
7	V2	41	VAL
7	V2	84	ARG
7	V2	137	GLN
7	V2	161	LEU
6	W2	9	VAL
6	W2	43	LYS
7	X2	73	CYS
7	X2	75	THR
7	X2	76	ASN
7	X2	93	VAL
7	X2	108	ARG
7	X2	132	SER
7	X2	171	ARG
6	A3	10	SER
6	A3	20	SER
6	A3	51	VAL
6	A3	52	VAL
6	A3	116	VAL
7	B3	57	SER
7	B3	103	SER
7	B3	127	SER

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Mol	Chain	Res	Type
6	C3	10	SER
6	C3	20	SER
6	C3	51	VAL
6	C3	52	VAL
6	C3	93	VAL
6	C3	98	VAL
6	C3	99	VAL
6	C3	116	VAL
6	C3	124	THR
6	C3	134	THR
6	C3	140	VAL
7	D3	27	LEU
7	D3	56	VAL
7	D3	103	SER
7	D3	120	LEU
7	D3	127	SER
7	D3	159	THR
7	D3	165	VAL
7	D3	172	VAL
6	E3	10	SER
6	E3	20	SER
6	E3	51	VAL
6	E3	52	VAL
6	E3	93	VAL
6	E3	98	VAL
6	E3	99	VAL
6	E3	102	THR
6	E3	116	VAL
6	E3	124	THR
6	E3	134	THR
6	E3	140	VAL
7	F3	27	LEU
7	F3	56	VAL
7	F3	103	SER
7	F3	127	SER
7	F3	159	THR
7	F3	165	VAL
7	F3	170	ASP
7	F3	172	VAL
7	F3	176	ILE
6	G3	10	SER
6	G3	20	SER

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Mol	Chain	Res	Type
6	G3	51	VAL
6	G3	52	VAL
6	G3	93	VAL
6	G3	98	VAL
6	G3	99	VAL
6	G3	116	VAL
6	G3	124	THR
6	G3	140	VAL
7	H3	56	VAL
7	H3	103	SER
7	H3	120	LEU
7	H3	127	SER
7	H3	132	SER
7	H3	159	THR
7	H3	160	SER
7	H3	165	VAL
7	H3	172	VAL
7	H3	176	ILE
6	I3	10	SER
6	I3	20	SER
6	I3	51	VAL
6	I3	52	VAL
6	I3	93	VAL
6	I3	98	VAL
6	I3	99	VAL
6	I3	102	THR
6	I3	116	VAL
6	I3	124	THR
6	I3	134	THR
6	I3	138	LEU
6	I3	140	VAL
7	J3	27	LEU
7	J3	56	VAL
7	J3	103	SER
7	J3	120	LEU
7	J3	127	SER
7	J3	145	THR
7	J3	159	THR
7	J3	165	VAL
7	J3	172	VAL
6	K3	10	SER
6	K3	20	SER

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Mol	Chain	Res	Type
6	K3	24	LEU
6	K3	53	LYS
6	K3	98	VAL
6	K3	99	VAL
6	K3	102	THR
6	K3	116	VAL
6	K3	124	THR
6	K3	134	THR
6	K3	140	VAL
7	L3	27	LEU
7	L3	56	VAL
7	L3	103	SER
7	L3	120	LEU
7	L3	127	SER
7	L3	145	THR
7	L3	159	THR
7	L3	165	VAL
7	L3	172	VAL
7	M3	41	VAL
7	M3	50	CYS
7	M3	67	ILE
7	M3	68	SER
7	M3	91	ARG
7	M3	103	SER
7	M3	126	SER
7	M3	131	VAL
7	M3	147	THR
7	M3	159	THR
7	M3	160	SER
7	N3	41	VAL
7	N3	50	CYS
7	N3	67	ILE
7	N3	68	SER
7	N3	91	ARG
7	N3	103	SER
7	N3	126	SER
7	N3	131	VAL
7	N3	147	THR
7	N3	159	THR
7	N3	160	SER
9	O3	49	VAL
10	d4	119	LEU

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Mol	Chain	Res	Type
10	d4	283	ARG
6	B4	17	ARG
6	B4	24	LEU
6	B4	27	ILE
6	B4	28	GLN
6	B4	31	ILE
6	B4	32	GLN
6	B4	49	GLU
6	B4	53	LYS
6	B4	62	LYS
6	B4	76	GLN
6	B4	90	MET
6	B4	99	VAL
6	B4	119	THR
6	B4	136	ASP
6	B4	151	GLU
6	B4	161	ASN
7	C4	7	ARG
7	C4	8	VAL
7	C4	19	VAL
7	C4	23	ASP
7	C4	27	LEU
7	C4	31	ILE
7	C4	33	ASP
7	C4	41	VAL
7	C4	45	VAL
7	C4	52	VAL
7	C4	59	MET
7	C4	67	ILE
7	C4	77	ARG
7	C4	79	MET
7	C4	88	ILE
7	C4	93	VAL
7	C4	97	LEU
7	C4	98	LEU
7	C4	101	ASP
7	C4	105	LEU
7	C4	108	ARG
7	C4	111	ASN
7	C4	115	GLU
7	C4	125	ASN
7	C4	127	SER

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Mol	Chain	Res	Type
7	C4	128	ILE
7	C4	129	ARG
7	C4	135	LYS
7	C4	139	VAL
7	C4	142	ILE
7	C4	145	THR
7	C4	148	GLU
7	C4	149	ARG
7	C4	164	GLU
7	C4	171	ARG
6	D4	1	MET
6	D4	2	LYS
6	D4	4	VAL
6	D4	5	ILE
6	D4	7	THR
6	D4	8	VAL
6	D4	9	VAL
6	D4	13	ASP
6	D4	21	ASN
6	D4	24	LEU
6	D4	27	ILE
6	D4	28	GLN
6	D4	31	ILE
6	D4	32	GLN
6	D4	49	GLU
6	D4	53	LYS
6	D4	62	LYS
6	D4	76	GLN
6	D4	81	LYS
6	D4	90	MET
6	D4	99	VAL
6	D4	119	THR
6	D4	136	ASP
6	D4	151	GLU
6	D4	161	ASN
7	E4	7	ARG
7	E4	8	VAL
7	E4	19	VAL
7	E4	23	ASP
7	E4	27	LEU
7	E4	31	ILE
7	E4	33	ASP

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Mol	Chain	Res	Type
7	E4	41	VAL
7	E4	45	VAL
7	E4	52	VAL
7	E4	67	ILE
7	E4	77	ARG
7	E4	79	MET
7	E4	88	ILE
7	E4	93	VAL
7	E4	97	LEU
7	E4	98	LEU
7	E4	101	ASP
7	E4	105	LEU
7	E4	108	ARG
7	E4	111	ASN
7	E4	115	GLU
7	E4	125	ASN
7	E4	127	SER
7	E4	128	ILE
7	E4	129	ARG
7	E4	135	LYS
7	E4	139	VAL
7	E4	142	ILE
7	E4	145	THR
7	E4	148	GLU
7	E4	149	ARG
7	E4	164	GLU
7	E4	171	ARG
6	F4	1	MET
6	F4	2	LYS
6	F4	4	VAL
6	F4	5	ILE
6	F4	7	THR
6	F4	8	VAL
6	F4	9	VAL
6	F4	13	ASP
6	F4	21	ASN
6	F4	24	LEU
6	F4	27	ILE
6	F4	28	GLN
6	F4	33	ARG
6	F4	43	LYS
6	F4	49	GLU

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Mol	Chain	Res	Type
6	F4	53	LYS
6	F4	62	LYS
6	F4	76	GLN
6	F4	81	LYS
6	F4	84	ARG
6	F4	90	MET
6	F4	99	VAL
6	F4	119	THR
6	F4	136	ASP
6	F4	137	ARG
6	F4	151	GLU
6	F4	161	ASN
7	G4	7	ARG
7	G4	8	VAL
7	G4	19	VAL
7	G4	23	ASP
7	G4	27	LEU
7	G4	31	ILE
7	G4	33	ASP
7	G4	41	VAL
7	G4	45	VAL
7	G4	52	VAL
7	G4	59	MET
7	G4	67	ILE
7	G4	75	THR
7	G4	77	ARG
7	G4	78	ARG
7	G4	79	MET
7	G4	88	ILE
7	G4	93	VAL
7	G4	97	LEU
7	G4	98	LEU
7	G4	101	ASP
7	G4	105	LEU
7	G4	108	ARG
7	G4	111	ASN
7	G4	115	GLU
7	G4	125	ASN
7	G4	127	SER
7	G4	128	ILE
7	G4	129	ARG
7	G4	135	LYS

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Mol	Chain	Res	Type
7	G4	139	VAL
7	G4	142	ILE
7	G4	145	THR
7	G4	148	GLU
7	G4	149	ARG
7	G4	164	GLU
7	G4	171	ARG
6	H4	1	MET
6	H4	2	LYS
6	H4	4	VAL
6	H4	5	ILE
6	H4	7	THR
6	H4	8	VAL
6	H4	9	VAL
6	H4	13	ASP
6	H4	21	ASN
6	H4	24	LEU
6	H4	27	ILE
6	H4	28	GLN
6	H4	31	ILE
6	H4	32	GLN
6	H4	33	ARG
6	H4	49	GLU
6	H4	53	LYS
6	H4	62	LYS
6	H4	76	GLN
6	H4	81	LYS
6	H4	90	MET
6	H4	99	VAL
6	H4	119	THR
6	H4	136	ASP
6	H4	151	GLU
6	H4	161	ASN
7	I4	7	ARG
7	I4	8	VAL
7	I4	19	VAL
7	I4	23	ASP
7	I4	27	LEU
7	I4	31	ILE
7	I4	33	ASP
7	I4	41	VAL
7	I4	45	VAL

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Mol	Chain	Res	Type
7	I4	52	VAL
7	I4	59	MET
7	I4	67	ILE
7	I4	77	ARG
7	I4	84	ARG
7	I4	125	ASN
7	I4	127	SER
7	I4	128	ILE
7	I4	129	ARG
7	I4	132	SER
7	I4	139	VAL
7	I4	142	ILE
7	I4	145	THR
7	I4	148	GLU
7	I4	149	ARG
7	I4	164	GLU
7	I4	171	ARG
6	J4	1	MET
6	J4	2	LYS
6	J4	4	VAL
6	J4	5	ILE
6	J4	7	THR
6	J4	13	ASP
6	J4	24	LEU
6	J4	27	ILE
6	J4	28	GLN
6	J4	31	ILE
6	J4	32	GLN
6	J4	49	GLU
6	J4	53	LYS
6	J4	62	LYS
6	J4	76	GLN
6	J4	81	LYS
6	J4	90	MET
6	J4	99	VAL
6	J4	119	THR
6	J4	136	ASP
6	J4	151	GLU
6	J4	161	ASN
7	K4	7	ARG
7	K4	8	VAL
7	K4	19	VAL

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Mol	Chain	Res	Type
7	K4	23	ASP
7	K4	27	LEU
7	K4	31	ILE
7	K4	33	ASP
7	K4	45	VAL
7	K4	52	VAL
7	K4	59	MET
7	K4	67	ILE
7	K4	77	ARG
7	K4	79	MET
7	K4	88	ILE
7	K4	93	VAL
7	K4	97	LEU
7	K4	98	LEU
7	K4	101	ASP
7	K4	105	LEU
7	K4	108	ARG
7	K4	111	ASN
7	K4	115	GLU
7	K4	125	ASN
7	K4	127	SER
7	K4	129	ARG
7	K4	135	LYS
7	K4	139	VAL
7	K4	142	ILE
7	K4	145	THR
7	K4	148	GLU
7	K4	149	ARG
7	K4	164	GLU
6	L4	1	MET
6	L4	2	LYS
6	L4	4	VAL
6	L4	5	ILE
6	L4	7	THR
6	L4	8	VAL
6	L4	9	VAL
6	L4	13	ASP
6	L4	21	ASN
6	L4	24	LEU
6	L4	27	ILE
6	L4	28	GLN
6	L4	31	ILE

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Mol	Chain	Res	Type
6	L4	33	ARG
6	L4	49	GLU
6	L4	53	LYS
6	L4	62	LYS
6	L4	76	GLN
6	L4	81	LYS
6	L4	90	MET
6	L4	99	VAL
6	L4	119	THR
6	L4	136	ASP
6	L4	151	GLU
6	L4	161	ASN
7	M4	7	ARG
7	M4	8	VAL
7	M4	19	VAL
7	M4	23	ASP
7	M4	27	LEU
7	M4	31	ILE
7	M4	33	ASP
7	M4	41	VAL
7	M4	45	VAL
7	M4	52	VAL
7	M4	59	MET
7	M4	77	ARG
7	M4	79	MET
7	M4	88	ILE
7	M4	93	VAL
7	M4	97	LEU
7	M4	98	LEU
7	M4	101	ASP
7	M4	105	LEU
7	M4	108	ARG
7	M4	111	ASN
7	M4	115	GLU
7	M4	125	ASN
7	M4	127	SER
7	M4	128	ILE
7	M4	129	ARG
7	M4	135	LYS
7	M4	139	VAL
7	M4	142	ILE
7	M4	145	THR

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Mol	Chain	Res	Type
7	M4	148	GLU
7	M4	149	ARG
7	M4	164	GLU
7	M4	171	ARG
7	B5	53	SER
7	B5	87	GLU
7	B5	107	ASP
7	B5	108	ARG
7	B5	126	SER
7	B5	127	SER
7	B5	142	ILE
7	B5	150	LYS
7	F5	53	SER
7	F5	87	GLU
7	F5	107	ASP
7	F5	108	ARG
7	F5	126	SER
7	F5	127	SER
7	F5	142	ILE
7	F5	150	LYS
7	G5	53	SER
7	G5	87	GLU
7	G5	107	ASP
7	G5	108	ARG
7	G5	126	SER
7	G5	127	SER
7	G5	142	ILE
7	G5	150	LYS
7	H5	53	SER
7	H5	87	GLU
7	H5	107	ASP
7	H5	108	ARG
7	H5	126	SER
7	H5	127	SER
7	H5	142	ILE
7	H5	150	LYS
7	I5	1	MET
7	I5	11	ASN
7	I5	19	VAL
7	I5	23	ASP
7	I5	24	LEU
7	I5	52	VAL

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Mol	Chain	Res	Type
7	I5	53	SER
7	I5	57	SER
7	I5	59	MET
7	I5	67	ILE
7	I5	73	CYS
7	I5	87	GLU
7	I5	91	ARG
7	I5	124	THR
7	I5	126	SER
7	I5	127	SER
7	I5	142	ILE
7	I5	151	MET
7	K5	1	MET
7	K5	2	LEU
7	K5	7	ARG
7	K5	22	SER
7	K5	52	VAL
7	K5	53	SER
7	K5	57	SER
7	K5	59	MET
7	K5	67	ILE
7	K5	73	CYS
7	K5	79	MET
7	K5	87	GLU
7	K5	124	THR
7	K5	126	SER
7	K5	127	SER
7	K5	142	ILE
7	K5	151	MET
7	L5	53	SER
7	L5	87	GLU
7	L5	107	ASP
7	L5	109	CYS
7	L5	126	SER
7	L5	127	SER
7	L5	142	ILE
7	L5	150	LYS
7	A5	52	VAL
7	A5	53	SER
7	A5	57	SER
7	A5	59	MET
7	A5	67	ILE

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Mol	Chain	Res	Type
7	A5	73	CYS
7	A5	79	MET
7	A5	87	GLU
7	A5	91	ARG
7	A5	124	THR
7	A5	126	SER
7	A5	127	SER
7	A5	142	ILE
7	A5	151	MET
7	A5	163	SER
7	C5	52	VAL
7	C5	53	SER
7	C5	57	SER
7	C5	59	MET
7	C5	67	ILE
7	C5	73	CYS
7	C5	87	GLU
7	C5	91	ARG
7	C5	124	THR
7	C5	126	SER
7	C5	127	SER
7	C5	142	ILE
7	C5	151	MET
7	C5	163	SER
13	k6	4	LYS
13	k6	7	GLU
13	k6	32	ASN
13	k6	40	LYS
13	k6	41	ASP
13	k6	94	LEU
13	k6	128	ILE
13	k6	135	LEU
13	k6	156	THR
13	k6	157	LYS
13	k6	158	LYS
13	k6	172	LYS
13	k6	222	GLU
13	k6	281	SER
13	k6	286	MET
1	X7	105	LYS
1	X7	106	GLN
1	X7	291	THR

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Mol	Chain	Res	Type
1	X7	320	LEU
3	B7	7	LYS
3	B7	19	SER
3	B7	21	GLU
3	B7	40	SER
3	B7	41	SER
3	B7	42	GLU
3	B7	60	ILE
3	B7	61	LEU
3	B7	65	LYS
3	B7	191	LYS
3	B7	226	GLN
3	B7	227	GLU
4	C7	3	THR
4	C7	37	SER
4	C7	39	THR
4	C7	77	SER
4	C7	79	ILE
4	C7	101	VAL
4	C7	111	LEU
4	C7	112	VAL
4	C7	121	SER
4	C7	123	ASP
4	C7	127	SER
4	C7	143	SER
4	C7	155	ASP
5	D7	3	ASP
5	D7	7	LYS
5	D7	8	VAL
5	D7	20	SER
5	D7	22	THR
5	D7	28	SER
5	D7	41	VAL
5	D7	46	SER
5	D7	49	SER
5	D7	53	THR
5	D7	75	THR
5	D7	76	SER
5	D7	89	VAL
5	D7	94	SER
5	D7	107	ASP
5	D7	125	SER

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Mol	Chain	Res	Type
5	D7	129	VAL
5	D7	139	VAL
5	D7	144	ASP
5	D7	146	THR
5	D7	157	VAL
5	D7	170	SER
4	E7	3	THR
4	E7	37	SER
4	E7	39	THR
4	E7	77	SER
4	E7	79	ILE
4	E7	101	VAL
4	E7	111	LEU
4	E7	112	VAL
4	E7	121	SER
4	E7	127	SER
4	E7	143	SER
4	E7	155	ASP
5	F7	3	ASP
5	F7	7	LYS
5	F7	8	VAL
5	F7	17	GLU
5	F7	18	PHE
5	F7	20	SER
5	F7	22	THR
5	F7	41	VAL
5	F7	46	SER
5	F7	49	SER
5	F7	53	THR
5	F7	67	ILE
5	F7	75	THR
5	F7	77	ARG
5	F7	89	VAL
5	F7	94	SER
5	F7	107	ASP
5	F7	115	GLU
5	F7	125	SER
5	F7	129	VAL
5	F7	139	VAL
5	F7	144	ASP
5	F7	146	THR
5	F7	157	VAL

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Mol	Chain	Res	Type
5	F7	170	SER
4	G7	3	THR
4	G7	37	SER
4	G7	39	THR
4	G7	77	SER
4	G7	79	ILE
4	G7	101	VAL
4	G7	111	LEU
4	G7	112	VAL
4	G7	121	SER
4	G7	127	SER
4	G7	143	SER
4	G7	155	ASP
5	H7	3	ASP
5	H7	7	LYS
5	H7	8	VAL
5	H7	20	SER
5	H7	22	THR
5	H7	28	SER
5	H7	30	MET
5	H7	41	VAL
5	H7	46	SER
5	H7	49	SER
5	H7	53	THR
5	H7	77	ARG
5	H7	78	ARG
5	H7	89	VAL
5	H7	94	SER
5	H7	107	ASP
5	H7	115	GLU
5	H7	125	SER
5	H7	129	VAL
5	H7	139	VAL
5	H7	144	ASP
5	H7	146	THR
5	H7	157	VAL
5	H7	170	SER
4	I7	3	THR
4	I7	37	SER
4	I7	39	THR
4	I7	77	SER
4	I7	79	ILE

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Mol	Chain	Res	Type
4	I7	101	VAL
4	I7	112	VAL
4	I7	121	SER
4	I7	123	ASP
4	I7	127	SER
4	I7	143	SER
4	I7	155	ASP
5	J7	3	ASP
5	J7	8	VAL
5	J7	20	SER
5	J7	22	THR
5	J7	28	SER
5	J7	41	VAL
5	J7	46	SER
5	J7	49	SER
5	J7	53	THR
5	J7	77	ARG
5	J7	89	VAL
5	J7	94	SER
5	J7	107	ASP
5	J7	125	SER
5	J7	129	VAL
5	J7	139	VAL
5	J7	144	ASP
5	J7	146	THR
5	J7	157	VAL
5	J7	170	SER
4	K7	3	THR
4	K7	37	SER
4	K7	39	THR
4	K7	77	SER
4	K7	79	ILE
4	K7	101	VAL
4	K7	111	LEU
4	K7	112	VAL
4	K7	121	SER
4	K7	123	ASP
4	K7	127	SER
4	K7	143	SER
4	K7	155	ASP
5	L7	3	ASP
5	L7	8	VAL

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Mol	Chain	Res	Type
5	L7	20	SER
5	L7	22	THR
5	L7	28	SER
5	L7	41	VAL
5	L7	46	SER
5	L7	49	SER
5	L7	53	THR
5	L7	76	SER
5	L7	89	VAL
5	L7	94	SER
5	L7	125	SER
5	L7	129	VAL
5	L7	139	VAL
5	L7	144	ASP
5	L7	146	THR
5	L7	157	VAL
5	L7	170	SER
4	M7	3	THR
4	M7	37	SER
4	M7	39	THR
4	M7	77	SER
4	M7	101	VAL
4	M7	111	LEU
4	M7	112	VAL
4	M7	121	SER
4	M7	127	SER
4	M7	143	SER
5	N7	7	LYS
5	N7	8	VAL
5	N7	20	SER
5	N7	22	THR
5	N7	28	SER
5	N7	41	VAL
5	N7	46	SER
5	N7	49	SER
5	N7	53	THR
5	N7	76	SER
5	N7	89	VAL
5	N7	94	SER
5	N7	107	ASP
5	N7	125	SER
5	N7	129	VAL

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Mol	Chain	Res	Type
5	N7	139	VAL
5	N7	144	ASP
5	N7	157	VAL
5	N7	170	SER
6	O7	5	ILE
6	O7	7	THR
6	O7	9	VAL
6	O7	10	SER
6	O7	26	SER
6	O7	57	ASP
6	O7	93	VAL
6	O7	99	VAL
6	O7	125	SER
6	O7	140	VAL
6	O7	145	SER
6	O7	153	SER
7	P7	8	VAL
7	P7	10	VAL
7	P7	12	SER
7	P7	19	VAL
7	P7	22	SER
7	P7	39	ASP
7	P7	46	SER
7	P7	57	SER
7	P7	103	SER
7	P7	124	THR
7	P7	127	SER
7	P7	139	VAL
7	P7	145	THR
7	P7	160	SER
7	P7	167	SER
7	P7	172	VAL
6	Q7	7	THR
6	Q7	9	VAL
6	Q7	10	SER
6	Q7	26	SER
6	Q7	57	ASP
6	Q7	93	VAL
6	Q7	99	VAL
6	Q7	125	SER
6	Q7	140	VAL
6	Q7	145	SER

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Mol	Chain	Res	Type
6	Q7	153	SER
7	R7	8	VAL
7	R7	10	VAL
7	R7	12	SER
7	R7	19	VAL
7	R7	22	SER
7	R7	39	ASP
7	R7	46	SER
7	R7	57	SER
7	R7	103	SER
7	R7	124	THR
7	R7	127	SER
7	R7	139	VAL
7	R7	145	THR
7	R7	160	SER
7	R7	167	SER
7	R7	172	VAL
6	S7	5	ILE
6	S7	7	THR
6	S7	9	VAL
6	S7	10	SER
6	S7	26	SER
6	S7	93	VAL
6	S7	99	VAL
6	S7	125	SER
6	S7	140	VAL
6	S7	145	SER
6	S7	153	SER
7	T7	8	VAL
7	T7	10	VAL
7	T7	12	SER
7	T7	19	VAL
7	T7	22	SER
7	T7	46	SER
7	T7	57	SER
7	T7	103	SER
7	T7	124	THR
7	T7	127	SER
7	T7	139	VAL
7	T7	145	THR
7	T7	160	SER
7	T7	167	SER

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Mol	Chain	Res	Type
7	T7	172	VAL
6	U7	5	ILE
6	U7	7	THR
6	U7	9	VAL
6	U7	10	SER
6	U7	26	SER
6	U7	57	ASP
6	U7	93	VAL
6	U7	99	VAL
6	U7	125	SER
6	U7	140	VAL
6	U7	145	SER
6	U7	153	SER
7	V7	8	VAL
7	V7	10	VAL
7	V7	12	SER
7	V7	19	VAL
7	V7	22	SER
7	V7	46	SER
7	V7	57	SER
7	V7	103	SER
7	V7	127	SER
7	V7	139	VAL
7	V7	145	THR
7	V7	160	SER
7	V7	167	SER
7	V7	172	VAL
6	W7	5	ILE
6	W7	7	THR
6	W7	9	VAL
6	W7	10	SER
6	W7	26	SER
6	W7	57	ASP
6	W7	93	VAL
6	W7	125	SER
6	W7	145	SER
6	W7	153	SER
7	Y7	8	VAL
7	Y7	10	VAL
7	Y7	12	SER
7	Y7	19	VAL
7	Y7	22	SER

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Mol	Chain	Res	Type
7	Y7	46	SER
7	Y7	57	SER
7	Y7	84	ARG
7	Y7	103	SER
7	Y7	124	THR
7	Y7	127	SER
7	Y7	139	VAL
7	Y7	145	THR
7	Y7	160	SER
7	Y7	167	SER
7	Y7	172	VAL
6	Z7	5	ILE
6	Z7	7	THR
6	Z7	10	SER
6	Z7	26	SER
6	Z7	93	VAL
6	Z7	99	VAL
6	Z7	125	SER
6	Z7	140	VAL
6	Z7	145	SER
6	Z7	153	SER
7	a7	8	VAL
7	a7	10	VAL
7	a7	12	SER
7	a7	22	SER
7	a7	39	ASP
7	a7	46	SER
7	a7	57	SER
7	a7	103	SER
7	a7	124	THR
7	a7	127	SER
7	a7	139	VAL
7	a7	145	THR
7	a7	160	SER
7	a7	167	SER
7	a7	172	VAL
6	b7	5	ILE
6	b7	7	THR
6	b7	9	VAL
6	b7	10	SER
6	b7	26	SER
6	b7	57	ASP

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Mol	Chain	Res	Type
6	b7	93	VAL
6	b7	99	VAL
6	b7	125	SER
6	b7	145	SER
6	b7	153	SER
7	c7	8	VAL
7	c7	10	VAL
7	c7	12	SER
7	c7	19	VAL
7	c7	22	SER
7	c7	39	ASP
7	c7	46	SER
7	c7	57	SER
7	c7	103	SER
7	c7	139	VAL
7	c7	145	THR
7	c7	160	SER
7	c7	167	SER
7	c7	172	VAL
6	d7	5	ILE
6	d7	7	THR
6	d7	9	VAL
6	d7	10	SER
6	d7	26	SER
6	d7	57	ASP
6	d7	93	VAL
6	d7	99	VAL
6	d7	125	SER
6	d7	140	VAL
6	d7	145	SER
6	d7	153	SER
7	e7	8	VAL
7	e7	10	VAL
7	e7	12	SER
7	e7	19	VAL
7	e7	22	SER
7	e7	39	ASP
7	e7	46	SER
7	e7	57	SER
7	e7	87	GLU
7	e7	103	SER
7	e7	124	THR

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Mol	Chain	Res	Type
7	e7	127	SER
7	e7	139	VAL
7	e7	145	THR
7	e7	160	SER
7	e7	167	SER
7	e7	172	VAL
6	f7	5	ILE
6	f7	7	THR
6	f7	9	VAL
6	f7	10	SER
6	f7	26	SER
6	f7	93	VAL
6	f7	99	VAL
6	f7	125	SER
6	f7	140	VAL
6	f7	145	SER
6	f7	153	SER
7	g7	8	VAL
7	g7	10	VAL
7	g7	12	SER
7	g7	19	VAL
7	g7	22	SER
7	g7	46	SER
7	g7	57	SER
7	g7	103	SER
7	g7	124	THR
7	g7	127	SER
7	g7	139	VAL
7	g7	145	THR
7	g7	160	SER
7	g7	167	SER
7	g7	172	VAL
6	h7	5	ILE
6	h7	7	THR
6	h7	9	VAL
6	h7	10	SER
6	h7	26	SER
6	h7	57	ASP
6	h7	93	VAL
6	h7	99	VAL
6	h7	125	SER
6	h7	140	VAL

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Mol	Chain	Res	Type
6	h7	145	SER
6	h7	153	SER
7	i7	8	VAL
7	i7	10	VAL
7	i7	12	SER
7	i7	19	VAL
7	i7	22	SER
7	i7	39	ASP
7	i7	46	SER
7	i7	57	SER
7	i7	103	SER
7	i7	127	SER
7	i7	139	VAL
7	i7	145	THR
7	i7	160	SER
7	i7	167	SER
7	i7	172	VAL
6	j7	5	ILE
6	j7	7	THR
6	j7	9	VAL
6	j7	10	SER
6	j7	26	SER
6	j7	57	ASP
6	j7	93	VAL
6	j7	125	SER
6	j7	140	VAL
6	j7	145	SER
6	j7	153	SER
7	k7	8	VAL
7	k7	10	VAL
7	k7	12	SER
7	k7	19	VAL
7	k7	22	SER
7	k7	46	SER
7	k7	57	SER
7	k7	103	SER
7	k7	124	THR
7	k7	127	SER
7	k7	139	VAL
7	k7	145	THR
7	k7	160	SER
7	k7	167	SER

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Mol	Chain	Res	Type
7	k7	172	VAL
6	l7	7	THR
6	l7	9	VAL
6	l7	10	SER
6	l7	26	SER
6	l7	99	VAL
6	l7	125	SER
6	l7	137	ARG
6	l7	140	VAL
6	l7	145	SER
6	l7	153	SER
7	m7	8	VAL
7	m7	10	VAL
7	m7	12	SER
7	m7	19	VAL
7	m7	22	SER
7	m7	46	SER
7	m7	57	SER
7	m7	104	VAL
7	m7	124	THR
7	m7	127	SER
7	m7	139	VAL
7	m7	145	THR
7	m7	165	VAL
7	m7	170	ASP
7	m7	172	VAL
7	B8	53	SER
7	B8	87	GLU
7	B8	126	SER
7	B8	127	SER
7	B8	142	ILE
7	B8	150	LYS
7	F8	53	SER
7	F8	87	GLU
7	F8	107	ASP
7	F8	108	ARG
7	F8	126	SER
7	F8	127	SER
7	F8	142	ILE
7	F8	150	LYS
7	G8	53	SER
7	G8	87	GLU

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Mol	Chain	Res	Type
7	G8	107	ASP
7	G8	108	ARG
7	G8	126	SER
7	G8	127	SER
7	G8	142	ILE
7	G8	150	LYS
7	H8	53	SER
7	H8	87	GLU
7	H8	107	ASP
7	H8	108	ARG
7	H8	126	SER
7	H8	127	SER
7	H8	142	ILE
7	H8	150	LYS
7	I8	5	PHE
7	I8	11	ASN
7	I8	19	VAL
7	I8	23	ASP
7	I8	24	LEU
7	I8	52	VAL
7	I8	53	SER
7	I8	57	SER
7	I8	59	MET
7	I8	67	ILE
7	I8	73	CYS
7	I8	87	GLU
7	I8	91	ARG
7	I8	124	THR
7	I8	126	SER
7	I8	127	SER
7	I8	142	ILE
7	I8	151	MET
6	J8	18	PHE
7	K8	1	MET
7	K8	2	LEU
7	K8	7	ARG
7	K8	22	SER
7	K8	52	VAL
7	K8	53	SER
7	K8	57	SER
7	K8	59	MET
7	K8	67	ILE

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Mol	Chain	Res	Type
7	K8	73	CYS
7	K8	79	MET
7	K8	87	GLU
7	K8	124	THR
7	K8	126	SER
7	K8	127	SER
7	K8	142	ILE
7	K8	151	MET
7	L8	53	SER
7	L8	87	GLU
7	L8	107	ASP
7	L8	108	ARG
7	L8	126	SER
7	L8	127	SER
7	L8	142	ILE
7	L8	150	LYS
7	A8	52	VAL
7	A8	53	SER
7	A8	57	SER
7	A8	59	MET
7	A8	67	ILE
7	A8	73	CYS
7	A8	79	MET
7	A8	87	GLU
7	A8	91	ARG
7	A8	124	THR
7	A8	126	SER
7	A8	127	SER
7	A8	142	ILE
7	A8	151	MET
7	A8	163	SER
7	C8	52	VAL
7	C8	53	SER
7	C8	57	SER
7	C8	59	MET
7	C8	67	ILE
7	C8	73	CYS
7	C8	87	GLU
7	C8	91	ARG
7	C8	124	THR
7	C8	126	SER
7	C8	127	SER

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Mol	Chain	Res	Type
7	C8	142	ILE
7	C8	151	MET
7	C8	163	SER
1	X9	105	LYS
1	X9	106	GLN
1	X9	291	THR
1	X9	320	LEU
3	B9	19	SER
3	B9	21	GLU
3	B9	40	SER
3	B9	41	SER
3	B9	42	GLU
3	B9	60	ILE
3	B9	61	LEU
3	B9	65	LYS
3	B9	186	ILE
3	B9	187	GLU
3	B9	226	GLN
3	B9	227	GLU
4	C9	3	THR
4	C9	37	SER
4	C9	39	THR
4	C9	77	SER
4	C9	79	ILE
4	C9	101	VAL
4	C9	111	LEU
4	C9	112	VAL
4	C9	121	SER
4	C9	123	ASP
4	C9	127	SER
4	C9	143	SER
4	C9	155	ASP
5	D9	3	ASP
5	D9	7	LYS
5	D9	8	VAL
5	D9	20	SER
5	D9	22	THR
5	D9	28	SER
5	D9	41	VAL
5	D9	46	SER
5	D9	49	SER
5	D9	53	THR

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Mol	Chain	Res	Type
5	D9	75	THR
5	D9	76	SER
5	D9	89	VAL
5	D9	94	SER
5	D9	107	ASP
5	D9	125	SER
5	D9	129	VAL
5	D9	139	VAL
5	D9	144	ASP
5	D9	146	THR
5	D9	157	VAL
5	D9	170	SER
4	E9	3	THR
4	E9	37	SER
4	E9	39	THR
4	E9	77	SER
4	E9	79	ILE
4	E9	101	VAL
4	E9	111	LEU
4	E9	112	VAL
4	E9	121	SER
4	E9	127	SER
4	E9	143	SER
4	E9	155	ASP
5	F9	3	ASP
5	F9	7	LYS
5	F9	8	VAL
5	F9	22	THR
5	F9	41	VAL
5	F9	46	SER
5	F9	49	SER
5	F9	53	THR
5	F9	67	ILE
5	F9	75	THR
5	F9	77	ARG
5	F9	89	VAL
5	F9	94	SER
5	F9	107	ASP
5	F9	115	GLU
5	F9	125	SER
5	F9	129	VAL
5	F9	139	VAL

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Mol	Chain	Res	Type
5	F9	144	ASP
5	F9	146	THR
5	F9	157	VAL
5	F9	170	SER
4	G9	3	THR
4	G9	37	SER
4	G9	39	THR
4	G9	77	SER
4	G9	79	ILE
4	G9	101	VAL
4	G9	111	LEU
4	G9	112	VAL
4	G9	121	SER
4	G9	127	SER
4	G9	143	SER
4	G9	155	ASP
5	H9	3	ASP
5	H9	7	LYS
5	H9	8	VAL
5	H9	20	SER
5	H9	22	THR
5	H9	28	SER
5	H9	30	MET
5	H9	41	VAL
5	H9	46	SER
5	H9	49	SER
5	H9	53	THR
5	H9	77	ARG
5	H9	78	ARG
5	H9	89	VAL
5	H9	94	SER
5	H9	107	ASP
5	H9	115	GLU
5	H9	125	SER
5	H9	129	VAL
5	H9	139	VAL
5	H9	144	ASP
5	H9	146	THR
5	H9	157	VAL
5	H9	170	SER
4	I9	3	THR
4	I9	37	SER

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Mol	Chain	Res	Type
4	I9	39	THR
4	I9	77	SER
4	I9	79	ILE
4	I9	101	VAL
4	I9	112	VAL
4	I9	121	SER
4	I9	123	ASP
4	I9	127	SER
4	I9	143	SER
4	I9	155	ASP
5	J9	3	ASP
5	J9	8	VAL
5	J9	20	SER
5	J9	22	THR
5	J9	28	SER
5	J9	41	VAL
5	J9	46	SER
5	J9	49	SER
5	J9	53	THR
5	J9	77	ARG
5	J9	89	VAL
5	J9	94	SER
5	J9	107	ASP
5	J9	125	SER
5	J9	129	VAL
5	J9	139	VAL
5	J9	144	ASP
5	J9	146	THR
5	J9	157	VAL
5	J9	170	SER
4	K9	3	THR
4	K9	37	SER
4	K9	39	THR
4	K9	77	SER
4	K9	79	ILE
4	K9	101	VAL
4	K9	111	LEU
4	K9	112	VAL
4	K9	121	SER
4	K9	123	ASP
4	K9	127	SER
4	K9	143	SER

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Mol	Chain	Res	Type
4	K9	155	ASP
5	L9	3	ASP
5	L9	8	VAL
5	L9	20	SER
5	L9	22	THR
5	L9	28	SER
5	L9	41	VAL
5	L9	46	SER
5	L9	49	SER
5	L9	53	THR
5	L9	76	SER
5	L9	89	VAL
5	L9	94	SER
5	L9	125	SER
5	L9	129	VAL
5	L9	139	VAL
5	L9	144	ASP
5	L9	146	THR
5	L9	157	VAL
5	L9	170	SER
4	M9	3	THR
4	M9	37	SER
4	M9	39	THR
4	M9	77	SER
4	M9	79	ILE
4	M9	101	VAL
4	M9	111	LEU
4	M9	112	VAL
4	M9	121	SER
4	M9	127	SER
4	M9	143	SER
5	N9	7	LYS
5	N9	8	VAL
5	N9	20	SER
5	N9	22	THR
5	N9	28	SER
5	N9	41	VAL
5	N9	46	SER
5	N9	49	SER
5	N9	53	THR
5	N9	76	SER
5	N9	89	VAL

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Mol	Chain	Res	Type
5	N9	94	SER
5	N9	107	ASP
5	N9	125	SER
5	N9	129	VAL
5	N9	139	VAL
5	N9	144	ASP
5	N9	157	VAL
5	N9	170	SER
6	O9	5	ILE
6	O9	7	THR
6	O9	9	VAL
6	O9	10	SER
6	O9	26	SER
6	O9	57	ASP
6	O9	93	VAL
6	O9	99	VAL
6	O9	125	SER
6	O9	140	VAL
6	O9	145	SER
6	O9	153	SER
7	P9	8	VAL
7	P9	10	VAL
7	P9	12	SER
7	P9	19	VAL
7	P9	22	SER
7	P9	39	ASP
7	P9	46	SER
7	P9	57	SER
7	P9	103	SER
7	P9	124	THR
7	P9	127	SER
7	P9	139	VAL
7	P9	145	THR
7	P9	160	SER
7	P9	167	SER
7	P9	172	VAL
6	Q9	7	THR
6	Q9	9	VAL
6	Q9	10	SER
6	Q9	26	SER
6	Q9	57	ASP
6	Q9	93	VAL

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Mol	Chain	Res	Type
6	Q9	99	VAL
6	Q9	125	SER
6	Q9	140	VAL
6	Q9	145	SER
6	Q9	153	SER
7	R9	8	VAL
7	R9	10	VAL
7	R9	12	SER
7	R9	19	VAL
7	R9	22	SER
7	R9	39	ASP
7	R9	46	SER
7	R9	57	SER
7	R9	103	SER
7	R9	124	THR
7	R9	127	SER
7	R9	139	VAL
7	R9	145	THR
7	R9	160	SER
7	R9	167	SER
7	R9	172	VAL
6	S9	5	ILE
6	S9	7	THR
6	S9	9	VAL
6	S9	10	SER
6	S9	26	SER
6	S9	93	VAL
6	S9	99	VAL
6	S9	125	SER
6	S9	140	VAL
6	S9	145	SER
6	S9	153	SER
7	T9	8	VAL
7	T9	10	VAL
7	T9	12	SER
7	T9	19	VAL
7	T9	22	SER
7	T9	46	SER
7	T9	57	SER
7	T9	103	SER
7	T9	124	THR
7	T9	127	SER

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Mol	Chain	Res	Type
7	T9	139	VAL
7	T9	145	THR
7	T9	160	SER
7	T9	167	SER
7	T9	172	VAL
6	U9	5	ILE
6	U9	7	THR
6	U9	9	VAL
6	U9	10	SER
6	U9	26	SER
6	U9	57	ASP
6	U9	93	VAL
6	U9	99	VAL
6	U9	125	SER
6	U9	140	VAL
6	U9	145	SER
6	U9	153	SER
7	V9	8	VAL
7	V9	10	VAL
7	V9	12	SER
7	V9	19	VAL
7	V9	22	SER
7	V9	46	SER
7	V9	57	SER
7	V9	103	SER
7	V9	127	SER
7	V9	139	VAL
7	V9	145	THR
7	V9	160	SER
7	V9	167	SER
7	V9	172	VAL
6	W9	5	ILE
6	W9	7	THR
6	W9	9	VAL
6	W9	10	SER
6	W9	26	SER
6	W9	57	ASP
6	W9	93	VAL
6	W9	125	SER
6	W9	145	SER
6	W9	153	SER
7	Y9	8	VAL

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Mol	Chain	Res	Type
7	Y9	10	VAL
7	Y9	12	SER
7	Y9	19	VAL
7	Y9	22	SER
7	Y9	46	SER
7	Y9	57	SER
7	Y9	84	ARG
7	Y9	103	SER
7	Y9	124	THR
7	Y9	127	SER
7	Y9	139	VAL
7	Y9	145	THR
7	Y9	160	SER
7	Y9	167	SER
7	Y9	172	VAL
6	Z9	5	ILE
6	Z9	7	THR
6	Z9	10	SER
6	Z9	26	SER
6	Z9	93	VAL
6	Z9	99	VAL
6	Z9	125	SER
6	Z9	140	VAL
6	Z9	145	SER
6	Z9	153	SER
7	a9	8	VAL
7	a9	10	VAL
7	a9	12	SER
7	a9	22	SER
7	a9	39	ASP
7	a9	46	SER
7	a9	57	SER
7	a9	61	CYS
7	a9	103	SER
7	a9	124	THR
7	a9	127	SER
7	a9	139	VAL
7	a9	145	THR
7	a9	160	SER
7	a9	167	SER
7	a9	172	VAL
6	b9	5	ILE

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Mol	Chain	Res	Type
6	b9	7	THR
6	b9	9	VAL
6	b9	10	SER
6	b9	26	SER
6	b9	57	ASP
6	b9	93	VAL
6	b9	99	VAL
6	b9	125	SER
6	b9	145	SER
6	b9	153	SER
7	c9	8	VAL
7	c9	10	VAL
7	c9	12	SER
7	c9	19	VAL
7	c9	22	SER
7	c9	39	ASP
7	c9	46	SER
7	c9	57	SER
7	c9	103	SER
7	c9	139	VAL
7	c9	145	THR
7	c9	160	SER
7	c9	167	SER
7	c9	172	VAL
6	d9	5	ILE
6	d9	7	THR
6	d9	9	VAL
6	d9	10	SER
6	d9	26	SER
6	d9	57	ASP
6	d9	93	VAL
6	d9	99	VAL
6	d9	125	SER
6	d9	140	VAL
6	d9	145	SER
6	d9	153	SER
7	e9	8	VAL
7	e9	10	VAL
7	e9	12	SER
7	e9	19	VAL
7	e9	22	SER
7	e9	39	ASP

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Mol	Chain	Res	Type
7	e9	46	SER
7	e9	57	SER
7	e9	87	GLU
7	e9	103	SER
7	e9	124	THR
7	e9	127	SER
7	e9	139	VAL
7	e9	145	THR
7	e9	160	SER
7	e9	167	SER
7	e9	172	VAL
6	f9	5	ILE
6	f9	7	THR
6	f9	9	VAL
6	f9	10	SER
6	f9	26	SER
6	f9	93	VAL
6	f9	99	VAL
6	f9	125	SER
6	f9	140	VAL
6	f9	145	SER
6	f9	153	SER
7	g9	8	VAL
7	g9	10	VAL
7	g9	12	SER
7	g9	19	VAL
7	g9	22	SER
7	g9	46	SER
7	g9	57	SER
7	g9	103	SER
7	g9	124	THR
7	g9	127	SER
7	g9	139	VAL
7	g9	145	THR
7	g9	160	SER
7	g9	167	SER
7	g9	172	VAL
6	h9	5	ILE
6	h9	7	THR
6	h9	9	VAL
6	h9	10	SER
6	h9	26	SER

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Mol	Chain	Res	Type
6	h9	57	ASP
6	h9	93	VAL
6	h9	99	VAL
6	h9	125	SER
6	h9	140	VAL
6	h9	145	SER
6	h9	153	SER
7	i9	8	VAL
7	i9	10	VAL
7	i9	12	SER
7	i9	19	VAL
7	i9	22	SER
7	i9	39	ASP
7	i9	46	SER
7	i9	57	SER
7	i9	103	SER
7	i9	127	SER
7	i9	139	VAL
7	i9	145	THR
7	i9	160	SER
7	i9	167	SER
7	i9	172	VAL
6	j9	5	ILE
6	j9	7	THR
6	j9	9	VAL
6	j9	10	SER
6	j9	26	SER
6	j9	57	ASP
6	j9	93	VAL
6	j9	125	SER
6	j9	140	VAL
6	j9	145	SER
6	j9	153	SER
7	k9	8	VAL
7	k9	10	VAL
7	k9	12	SER
7	k9	19	VAL
7	k9	22	SER
7	k9	46	SER
7	k9	57	SER
7	k9	103	SER
7	k9	124	THR

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Mol	Chain	Res	Type
7	k9	127	SER
7	k9	139	VAL
7	k9	145	THR
7	k9	160	SER
7	k9	167	SER
7	k9	172	VAL
6	l9	7	THR
6	l9	9	VAL
6	l9	10	SER
6	l9	26	SER
6	l9	99	VAL
6	l9	125	SER
6	l9	140	VAL
6	l9	145	SER
6	l9	153	SER
7	m9	8	VAL
7	m9	10	VAL
7	m9	12	SER
7	m9	19	VAL
7	m9	22	SER
7	m9	46	SER
7	m9	57	SER
7	m9	104	VAL
7	m9	124	THR
7	m9	127	SER
7	m9	139	VAL
7	m9	145	THR
7	m9	165	VAL
7	m9	170	ASP
7	m9	172	VAL
6	AA	3	SER
6	AA	26	SER
6	AA	39	GLU
6	AA	124	THR
6	AA	131	ILE
6	AA	134	THR
6	AA	138	LEU
6	AA	140	VAL
6	AA	150	VAL
6	AA	153	SER
7	BA	12	SER
7	BA	13	ASP

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Mol	Chain	Res	Type
7	BA	19	VAL
7	BA	24	LEU
7	BA	43	SER
7	BA	56	VAL
7	BA	113	LEU
7	BA	126	SER
7	BA	127	SER
7	BA	152	SER
7	BA	176	ILE
6	CA	3	SER
6	CA	5	ILE
6	CA	21	ASN
6	CA	26	SER
6	CA	105	LEU
6	CA	124	THR
6	CA	131	ILE
6	CA	134	THR
6	CA	138	LEU
6	CA	140	VAL
6	CA	150	VAL
6	CA	153	SER
7	DA	12	SER
7	DA	24	LEU
7	DA	43	SER
7	DA	56	VAL
7	DA	126	SER
7	DA	127	SER
7	DA	139	VAL
7	DA	152	SER
7	DA	176	ILE
6	EA	3	SER
6	EA	5	ILE
6	EA	26	SER
6	EA	39	GLU
6	EA	124	THR
6	EA	131	ILE
6	EA	138	LEU
6	EA	140	VAL
6	EA	150	VAL
7	FA	12	SER
7	FA	13	ASP
7	FA	19	VAL

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Mol	Chain	Res	Type
7	FA	43	SER
7	FA	56	VAL
7	FA	126	SER
7	FA	127	SER
7	FA	139	VAL
7	FA	152	SER
7	FA	176	ILE
6	GA	3	SER
6	GA	5	ILE
6	GA	26	SER
6	GA	39	GLU
6	GA	124	THR
6	GA	131	ILE
6	GA	138	LEU
6	GA	140	VAL
6	GA	150	VAL
6	GA	153	SER
7	HA	12	SER
7	HA	13	ASP
7	HA	24	LEU
7	HA	43	SER
7	HA	56	VAL
7	HA	113	LEU
7	HA	126	SER
7	HA	127	SER
7	HA	139	VAL
7	HA	152	SER
7	HA	160	SER
7	HA	176	ILE
6	IA	3	SER
6	IA	5	ILE
6	IA	26	SER
6	IA	32	GLN
6	IA	38	LEU
6	IA	105	LEU
6	IA	124	THR
6	IA	131	ILE
6	IA	134	THR
6	IA	138	LEU
6	IA	140	VAL
6	IA	150	VAL
6	IA	153	SER

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Mol	Chain	Res	Type
7	JA	12	SER
7	JA	24	LEU
7	JA	43	SER
7	JA	56	VAL
7	JA	113	LEU
7	JA	126	SER
7	JA	127	SER
7	JA	139	VAL
7	JA	152	SER
7	JA	176	ILE
6	KA	3	SER
6	KA	5	ILE
6	KA	26	SER
6	KA	39	GLU
6	KA	105	LEU
6	KA	124	THR
6	KA	134	THR
6	KA	138	LEU
6	KA	140	VAL
6	KA	150	VAL
6	KA	153	SER
7	LA	12	SER
7	LA	24	LEU
7	LA	43	SER
7	LA	56	VAL
7	LA	126	SER
7	LA	127	SER
7	LA	152	SER
14	MA	101	LEU
14	MA	145	CYS
14	MA	195	CYS
15	bB	91	ILE
15	bB	202	THR
15	bB	204	CYS
15	bB	270	ASN
15	bB	332	MET
15	bB	333	ARG
17	BB	180	SER
17	BB	181	THR
6	CB	6	THR
7	DB	159	THR
7	DB	160	SER

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Mol	Chain	Res	Type
6	EB	99	VAL
6	EB	147	GLN
7	FB	139	VAL
6	GB	49	GLU
6	GB	134	THR
6	GB	135	ARG
6	GB	137	ARG
6	GB	147	GLN
6	GB	159	LEU
7	HB	8	VAL
7	HB	10	VAL
7	HB	31	ILE
7	HB	33	ASP
7	HB	52	VAL
7	HB	160	SER
7	JB	145	THR
7	JB	147	THR
6	KB	21	ASN
6	MB	49	GLU
7	NB	25	GLN
7	NB	62	GLU
7	NB	85	ASP
7	NB	114	LYS
7	NB	124	THR
7	NB	159	THR
7	NB	160	SER
6	QB	136	ASP
6	QB	157	ASP
7	RB	8	VAL
7	RB	61	CYS
7	RB	62	GLU
7	RB	145	THR
7	RB	148	GLU
6	SB	49	GLU
6	SB	54	GLU
7	TB	24	LEU
7	TB	25	GLN
7	TB	159	THR
7	TB	170	ASP
7	VB	85	ASP
7	VB	159	THR
7	VB	160	SER

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Mol	Chain	Res	Type
6	WB	121	ASN
7	ZB	31	ILE
7	ZB	61	CYS
7	ZB	84	ARG
7	ZB	124	THR
7	ZB	127	SER
7	cB	159	THR
6	dB	147	GLN
7	eB	63	ASN
7	eB	84	ARG
7	eB	125	ASN
6	fB	136	ASP
7	gB	35	ASN
7	gB	60	ILE
7	gB	84	ARG
7	gB	159	THR
7	iB	114	LYS
7	iB	115	GLU
6	jB	53	LYS
6	jB	54	GLU
6	jB	137	ARG
6	jB	147	GLN
7	kB	61	CYS
7	kB	62	GLU
7	kB	83	LEU
7	kB	84	ARG
7	kB	85	ASP
7	kB	88	ILE
7	kB	126	SER
7	kB	127	SER
6	lB	53	LYS
7	mB	159	THR
7	mB	160	SER
6	AC	44	LEU
6	AC	59	CYS
6	AC	92	LEU
6	AC	93	VAL
6	AC	125	SER
6	AC	130	SER
6	AC	156	LEU
7	BC	8	VAL
7	BC	12	SER

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Mol	Chain	Res	Type
7	BC	24	LEU
7	BC	27	LEU
7	BC	45	VAL
7	BC	46	SER
7	BC	57	SER
7	BC	68	SER
7	BC	97	LEU
7	BC	105	LEU
7	BC	110	LEU
7	BC	120	LEU
7	BC	124	THR
7	BC	128	ILE
7	BC	131	VAL
7	BC	139	VAL
6	CC	44	LEU
6	CC	59	CYS
6	CC	92	LEU
6	CC	93	VAL
6	CC	102	THR
6	CC	125	SER
6	CC	130	SER
6	CC	134	THR
6	CC	156	LEU
7	DC	8	VAL
7	DC	12	SER
7	DC	24	LEU
7	DC	27	LEU
7	DC	29	SER
7	DC	45	VAL
7	DC	46	SER
7	DC	57	SER
7	DC	68	SER
7	DC	97	LEU
7	DC	105	LEU
7	DC	110	LEU
7	DC	120	LEU
7	DC	124	THR
7	DC	128	ILE
7	DC	131	VAL
7	DC	139	VAL
6	EC	44	LEU
6	EC	59	CYS

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Mol	Chain	Res	Type
6	EC	92	LEU
6	EC	93	VAL
6	EC	102	THR
6	EC	125	SER
6	EC	130	SER
6	EC	134	THR
6	EC	156	LEU
6	EC	157	ASP
7	FC	8	VAL
7	FC	12	SER
7	FC	24	LEU
7	FC	27	LEU
7	FC	29	SER
7	FC	45	VAL
7	FC	46	SER
7	FC	51	MET
7	FC	57	SER
7	FC	68	SER
7	FC	79	MET
7	FC	97	LEU
7	FC	105	LEU
7	FC	110	LEU
7	FC	120	LEU
7	FC	124	THR
7	FC	128	ILE
7	FC	131	VAL
7	FC	134	MET
7	FC	139	VAL
6	GC	44	LEU
6	GC	59	CYS
6	GC	92	LEU
6	GC	93	VAL
6	GC	102	THR
6	GC	125	SER
6	GC	130	SER
6	GC	134	THR
6	GC	156	LEU
6	GC	157	ASP
7	HC	8	VAL
7	HC	12	SER
7	HC	24	LEU
7	HC	27	LEU

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Mol	Chain	Res	Type
7	HC	29	SER
7	HC	45	VAL
7	HC	46	SER
7	HC	51	MET
7	HC	57	SER
7	HC	68	SER
7	HC	79	MET
7	HC	97	LEU
7	HC	105	LEU
7	HC	110	LEU
7	HC	120	LEU
7	HC	124	THR
7	HC	128	ILE
7	HC	131	VAL
7	HC	134	MET
7	HC	139	VAL
6	IC	44	LEU
6	IC	59	CYS
6	IC	93	VAL
6	IC	102	THR
6	IC	125	SER
6	IC	130	SER
6	IC	157	ASP
7	JC	8	VAL
7	JC	12	SER
7	JC	24	LEU
7	JC	27	LEU
7	JC	29	SER
7	JC	45	VAL
7	JC	46	SER
7	JC	57	SER
7	JC	68	SER
7	JC	97	LEU
7	JC	105	LEU
7	JC	110	LEU
7	JC	120	LEU
7	JC	124	THR
7	JC	128	ILE
7	JC	131	VAL
7	JC	139	VAL
6	KC	59	CYS
6	KC	92	LEU

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Mol	Chain	Res	Type
6	KC	93	VAL
6	KC	102	THR
6	KC	125	SER
6	KC	130	SER
6	KC	134	THR
6	KC	157	ASP
7	LC	8	VAL
7	LC	12	SER
7	LC	24	LEU
7	LC	27	LEU
7	LC	29	SER
7	LC	45	VAL
7	LC	46	SER
7	LC	57	SER
7	LC	68	SER
7	LC	79	MET
7	LC	97	LEU
7	LC	105	LEU
7	LC	110	LEU
7	LC	120	LEU
7	LC	124	THR
7	LC	128	ILE
7	LC	131	VAL
7	LC	139	VAL
18	MC	59	GLU
18	MC	60	SER
18	MC	61	VAL
18	MC	63	ASP
18	MC	64	GLU
18	MC	65	LYS
18	MC	92	VAL
18	MC	144	ARG
18	MC	146	GLN
18	MC	219	SER
18	MC	220	THR
18	MC	223	ARG
18	MC	237	PHE
18	MC	261	VAL
18	MC	304	TRP
10	dD	119	LEU
10	dD	282	LYS
10	dD	338	GLU

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Mol	Chain	Res	Type
6	BD	17	ARG
6	BD	24	LEU
6	BD	27	ILE
6	BD	28	GLN
6	BD	31	ILE
6	BD	32	GLN
6	BD	49	GLU
6	BD	53	LYS
6	BD	62	LYS
6	BD	76	GLN
6	BD	90	MET
6	BD	99	VAL
6	BD	119	THR
6	BD	136	ASP
6	BD	151	GLU
6	BD	161	ASN
7	CD	7	ARG
7	CD	8	VAL
7	CD	19	VAL
7	CD	23	ASP
7	CD	27	LEU
7	CD	31	ILE
7	CD	33	ASP
7	CD	41	VAL
7	CD	45	VAL
7	CD	52	VAL
7	CD	59	MET
7	CD	67	ILE
7	CD	77	ARG
7	CD	79	MET
7	CD	88	ILE
7	CD	93	VAL
7	CD	97	LEU
7	CD	98	LEU
7	CD	101	ASP
7	CD	105	LEU
7	CD	108	ARG
7	CD	111	ASN
7	CD	115	GLU
7	CD	125	ASN
7	CD	127	SER
7	CD	128	ILE

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Mol	Chain	Res	Type
7	CD	129	ARG
7	CD	135	LYS
7	CD	139	VAL
7	CD	142	ILE
7	CD	145	THR
7	CD	148	GLU
7	CD	149	ARG
7	CD	164	GLU
7	CD	171	ARG
6	DD	1	MET
6	DD	2	LYS
6	DD	4	VAL
6	DD	5	ILE
6	DD	7	THR
6	DD	8	VAL
6	DD	9	VAL
6	DD	13	ASP
6	DD	21	ASN
6	DD	24	LEU
6	DD	27	ILE
6	DD	28	GLN
6	DD	31	ILE
6	DD	32	GLN
6	DD	49	GLU
6	DD	53	LYS
6	DD	62	LYS
6	DD	76	GLN
6	DD	81	LYS
6	DD	90	MET
6	DD	99	VAL
6	DD	119	THR
6	DD	136	ASP
6	DD	151	GLU
6	DD	161	ASN
7	ED	7	ARG
7	ED	8	VAL
7	ED	19	VAL
7	ED	23	ASP
7	ED	27	LEU
7	ED	31	ILE
7	ED	33	ASP
7	ED	41	VAL

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Mol	Chain	Res	Type
7	ED	45	VAL
7	ED	52	VAL
7	ED	59	MET
7	ED	67	ILE
7	ED	77	ARG
7	ED	79	MET
7	ED	88	ILE
7	ED	93	VAL
7	ED	97	LEU
7	ED	98	LEU
7	ED	101	ASP
7	ED	105	LEU
7	ED	108	ARG
7	ED	111	ASN
7	ED	115	GLU
7	ED	125	ASN
7	ED	127	SER
7	ED	128	ILE
7	ED	129	ARG
7	ED	135	LYS
7	ED	139	VAL
7	ED	142	ILE
7	ED	145	THR
7	ED	148	GLU
7	ED	149	ARG
7	ED	164	GLU
7	ED	171	ARG
6	FD	1	MET
6	FD	2	LYS
6	FD	4	VAL
6	FD	5	ILE
6	FD	7	THR
6	FD	8	VAL
6	FD	9	VAL
6	FD	13	ASP
6	FD	21	ASN
6	FD	24	LEU
6	FD	27	ILE
6	FD	28	GLN
6	FD	31	ILE
6	FD	32	GLN
6	FD	43	LYS

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Mol	Chain	Res	Type
6	FD	49	GLU
6	FD	53	LYS
6	FD	62	LYS
6	FD	76	GLN
6	FD	81	LYS
6	FD	84	ARG
6	FD	90	MET
6	FD	99	VAL
6	FD	119	THR
6	FD	136	ASP
6	FD	137	ARG
6	FD	151	GLU
6	FD	161	ASN
7	GD	7	ARG
7	GD	8	VAL
7	GD	19	VAL
7	GD	23	ASP
7	GD	27	LEU
7	GD	31	ILE
7	GD	33	ASP
7	GD	41	VAL
7	GD	45	VAL
7	GD	52	VAL
7	GD	59	MET
7	GD	67	ILE
7	GD	77	ARG
7	GD	78	ARG
7	GD	79	MET
7	GD	88	ILE
7	GD	93	VAL
7	GD	97	LEU
7	GD	98	LEU
7	GD	101	ASP
7	GD	105	LEU
7	GD	108	ARG
7	GD	111	ASN
7	GD	115	GLU
7	GD	125	ASN
7	GD	127	SER
7	GD	128	ILE
7	GD	129	ARG
7	GD	135	LYS

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Mol	Chain	Res	Type
7	GD	139	VAL
7	GD	142	ILE
7	GD	145	THR
7	GD	148	GLU
7	GD	149	ARG
7	GD	164	GLU
7	GD	171	ARG
6	HD	1	MET
6	HD	2	LYS
6	HD	4	VAL
6	HD	5	ILE
6	HD	7	THR
6	HD	8	VAL
6	HD	9	VAL
6	HD	13	ASP
6	HD	21	ASN
6	HD	24	LEU
6	HD	27	ILE
6	HD	28	GLN
6	HD	31	ILE
6	HD	32	GLN
6	HD	33	ARG
6	HD	49	GLU
6	HD	53	LYS
6	HD	62	LYS
6	HD	76	GLN
6	HD	81	LYS
6	HD	90	MET
6	HD	99	VAL
6	HD	119	THR
6	HD	136	ASP
6	HD	151	GLU
6	HD	161	ASN
7	ID	7	ARG
7	ID	8	VAL
7	ID	19	VAL
7	ID	23	ASP
7	ID	27	LEU
7	ID	31	ILE
7	ID	33	ASP
7	ID	41	VAL
7	ID	45	VAL

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Mol	Chain	Res	Type
7	ID	52	VAL
7	ID	59	MET
7	ID	67	ILE
7	ID	77	ARG
7	ID	84	ARG
7	ID	116	THR
7	ID	125	ASN
7	ID	127	SER
7	ID	128	ILE
7	ID	129	ARG
7	ID	132	SER
7	ID	139	VAL
7	ID	142	ILE
7	ID	145	THR
7	ID	148	GLU
7	ID	149	ARG
7	ID	164	GLU
7	ID	171	ARG
6	JD	1	MET
6	JD	2	LYS
6	JD	4	VAL
6	JD	5	ILE
6	JD	7	THR
6	JD	13	ASP
6	JD	24	LEU
6	JD	27	ILE
6	JD	28	GLN
6	JD	31	ILE
6	JD	32	GLN
6	JD	49	GLU
6	JD	53	LYS
6	JD	62	LYS
6	JD	76	GLN
6	JD	81	LYS
6	JD	90	MET
6	JD	99	VAL
6	JD	119	THR
6	JD	136	ASP
6	JD	151	GLU
6	JD	161	ASN
7	KD	7	ARG
7	KD	8	VAL

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Mol	Chain	Res	Type
7	KD	19	VAL
7	KD	23	ASP
7	KD	27	LEU
7	KD	31	ILE
7	KD	33	ASP
7	KD	45	VAL
7	KD	52	VAL
7	KD	59	MET
7	KD	67	ILE
7	KD	77	ARG
7	KD	79	MET
7	KD	88	ILE
7	KD	93	VAL
7	KD	97	LEU
7	KD	98	LEU
7	KD	101	ASP
7	KD	105	LEU
7	KD	108	ARG
7	KD	111	ASN
7	KD	115	GLU
7	KD	125	ASN
7	KD	127	SER
7	KD	129	ARG
7	KD	135	LYS
7	KD	139	VAL
7	KD	142	ILE
7	KD	145	THR
7	KD	148	GLU
7	KD	149	ARG
7	KD	164	GLU
6	LD	1	MET
6	LD	2	LYS
6	LD	4	VAL
6	LD	5	ILE
6	LD	7	THR
6	LD	8	VAL
6	LD	9	VAL
6	LD	13	ASP
6	LD	21	ASN
6	LD	24	LEU
6	LD	27	ILE
6	LD	28	GLN

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Mol	Chain	Res	Type
6	LD	31	ILE
6	LD	49	GLU
6	LD	53	LYS
6	LD	62	LYS
6	LD	76	GLN
6	LD	81	LYS
6	LD	90	MET
6	LD	99	VAL
6	LD	119	THR
6	LD	136	ASP
6	LD	151	GLU
6	LD	161	ASN
7	MD	7	ARG
7	MD	8	VAL
7	MD	19	VAL
7	MD	23	ASP
7	MD	27	LEU
7	MD	31	ILE
7	MD	33	ASP
7	MD	41	VAL
7	MD	45	VAL
7	MD	52	VAL
7	MD	59	MET
7	MD	77	ARG
7	MD	79	MET
7	MD	88	ILE
7	MD	93	VAL
7	MD	97	LEU
7	MD	98	LEU
7	MD	101	ASP
7	MD	105	LEU
7	MD	108	ARG
7	MD	111	ASN
7	MD	115	GLU
7	MD	125	ASN
7	MD	127	SER
7	MD	128	ILE
7	MD	129	ARG
7	MD	135	LYS
7	MD	139	VAL
7	MD	142	ILE
7	MD	145	THR

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Mol	Chain	Res	Type
7	MD	148	GLU
7	MD	149	ARG
7	MD	164	GLU
7	MD	171	ARG
6	AE	44	LEU
6	AE	59	CYS
6	AE	92	LEU
6	AE	93	VAL
6	AE	125	SER
6	AE	130	SER
6	AE	156	LEU
7	BE	8	VAL
7	BE	12	SER
7	BE	24	LEU
7	BE	27	LEU
7	BE	45	VAL
7	BE	46	SER
7	BE	57	SER
7	BE	68	SER
7	BE	97	LEU
7	BE	105	LEU
7	BE	110	LEU
7	BE	120	LEU
7	BE	124	THR
7	BE	128	ILE
7	BE	131	VAL
7	BE	139	VAL
6	CE	44	LEU
6	CE	59	CYS
6	CE	92	LEU
6	CE	93	VAL
6	CE	102	THR
6	CE	125	SER
6	CE	130	SER
6	CE	134	THR
6	CE	156	LEU
7	DE	8	VAL
7	DE	12	SER
7	DE	24	LEU
7	DE	27	LEU
7	DE	29	SER
7	DE	45	VAL

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Mol	Chain	Res	Type
7	DE	46	SER
7	DE	57	SER
7	DE	68	SER
7	DE	97	LEU
7	DE	105	LEU
7	DE	110	LEU
7	DE	120	LEU
7	DE	124	THR
7	DE	128	ILE
7	DE	131	VAL
7	DE	139	VAL
6	EE	44	LEU
6	EE	59	CYS
6	EE	92	LEU
6	EE	93	VAL
6	EE	102	THR
6	EE	125	SER
6	EE	130	SER
6	EE	134	THR
6	EE	156	LEU
6	EE	157	ASP
7	FE	8	VAL
7	FE	12	SER
7	FE	24	LEU
7	FE	27	LEU
7	FE	29	SER
7	FE	45	VAL
7	FE	46	SER
7	FE	51	MET
7	FE	57	SER
7	FE	68	SER
7	FE	79	MET
7	FE	97	LEU
7	FE	105	LEU
7	FE	110	LEU
7	FE	120	LEU
7	FE	124	THR
7	FE	128	ILE
7	FE	131	VAL
7	FE	134	MET
7	FE	139	VAL
6	GE	44	LEU

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Mol	Chain	Res	Type
6	GE	59	CYS
6	GE	92	LEU
6	GE	93	VAL
6	GE	102	THR
6	GE	125	SER
6	GE	130	SER
6	GE	134	THR
6	GE	156	LEU
6	GE	157	ASP
7	HE	8	VAL
7	HE	12	SER
7	HE	24	LEU
7	HE	27	LEU
7	HE	29	SER
7	HE	45	VAL
7	HE	46	SER
7	HE	51	MET
7	HE	57	SER
7	HE	68	SER
7	HE	79	MET
7	HE	97	LEU
7	HE	105	LEU
7	HE	110	LEU
7	HE	120	LEU
7	HE	124	THR
7	HE	128	ILE
7	HE	131	VAL
7	HE	134	MET
7	HE	139	VAL
6	IE	44	LEU
6	IE	59	CYS
6	IE	93	VAL
6	IE	102	THR
6	IE	125	SER
6	IE	130	SER
6	IE	157	ASP
7	JE	8	VAL
7	JE	12	SER
7	JE	24	LEU
7	JE	27	LEU
7	JE	29	SER
7	JE	45	VAL

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Mol	Chain	Res	Type
7	JE	46	SER
7	JE	57	SER
7	JE	68	SER
7	JE	97	LEU
7	JE	105	LEU
7	JE	110	LEU
7	JE	120	LEU
7	JE	124	THR
7	JE	128	ILE
7	JE	131	VAL
7	JE	139	VAL
6	KE	59	CYS
6	KE	92	LEU
6	KE	93	VAL
6	KE	102	THR
6	KE	125	SER
6	KE	130	SER
6	KE	134	THR
6	KE	157	ASP
7	LE	8	VAL
7	LE	12	SER
7	LE	24	LEU
7	LE	27	LEU
7	LE	29	SER
7	LE	45	VAL
7	LE	46	SER
7	LE	57	SER
7	LE	68	SER
7	LE	79	MET
7	LE	97	LEU
7	LE	105	LEU
7	LE	110	LEU
7	LE	120	LEU
7	LE	124	THR
7	LE	128	ILE
7	LE	131	VAL
7	LE	139	VAL
18	ME	59	GLU
18	ME	60	SER
18	ME	61	VAL
18	ME	63	ASP
18	ME	64	GLU

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Mol	Chain	Res	Type
18	ME	65	LYS
18	ME	92	VAL
18	ME	144	ARG
18	ME	223	ARG
18	ME	236	ASP
18	ME	261	VAL
18	ME	268	VAL
18	ME	304	TRP
1	XF	291	THR
2	AF	160	VAL
3	BF	212	GLN
3	BF	228	MET
5	FF	17	GLU
5	LF	20	SER
5	LF	172	VAL
5	NF	39	ASP
5	NF	172	VAL
6	SF	34	SER
7	TF	1	MET
7	TF	2	LEU
7	aF	1	MET
7	aF	128	ILE
7	cF	1	MET
7	cF	2	LEU
7	cF	147	THR
6	fF	42	GLU
7	gF	1	MET
6	hF	6	THR
6	hF	150	VAL
7	iF	1	MET
7	iF	2	LEU
7	iF	131	VAL
6	jF	49	GLU
7	kF	1	MET
7	kF	2	LEU
7	mF	1	MET
7	mF	2	LEU
6	AG	1	MET
6	AG	3	SER
6	AG	4	VAL
6	AG	9	VAL
6	AG	20	SER

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Mol	Chain	Res	Type
6	AG	26	SER
6	AG	27	ILE
6	AG	44	LEU
6	AG	90	MET
6	AG	97	LEU
6	AG	98	VAL
6	AG	105	LEU
6	AG	114	ARG
6	AG	115	GLU
6	AG	125	SER
6	AG	136	ASP
7	BG	23	ASP
7	BG	31	ILE
7	BG	56	VAL
7	BG	89	ILE
7	BG	94	SER
7	BG	105	LEU
7	BG	124	THR
7	BG	127	SER
7	BG	148	GLU
7	BG	152	SER
7	BG	157	ASP
7	BG	158	CYS
6	CG	1	MET
6	CG	3	SER
6	CG	4	VAL
6	CG	9	VAL
6	CG	20	SER
6	CG	23	ASP
6	CG	26	SER
6	CG	27	ILE
6	CG	33	ARG
6	CG	38	LEU
6	CG	44	LEU
6	CG	49	GLU
6	CG	90	MET
6	CG	92	LEU
6	CG	97	LEU
6	CG	98	VAL
6	CG	105	LEU
6	CG	114	ARG
6	CG	115	GLU

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Mol	Chain	Res	Type
6	CG	125	SER
6	CG	136	ASP
7	DG	23	ASP
7	DG	31	ILE
7	DG	56	VAL
7	DG	89	ILE
7	DG	94	SER
7	DG	97	LEU
7	DG	98	LEU
7	DG	105	LEU
7	DG	124	THR
7	DG	127	SER
7	DG	148	GLU
7	DG	152	SER
7	DG	157	ASP
7	DG	158	CYS
6	EG	1	MET
6	EG	3	SER
6	EG	4	VAL
6	EG	9	VAL
6	EG	20	SER
6	EG	23	ASP
6	EG	26	SER
6	EG	27	ILE
6	EG	38	LEU
6	EG	44	LEU
6	EG	49	GLU
6	EG	90	MET
6	EG	92	LEU
6	EG	97	LEU
6	EG	98	VAL
6	EG	105	LEU
6	EG	114	ARG
6	EG	115	GLU
6	EG	125	SER
6	EG	136	ASP
7	FG	23	ASP
7	FG	31	ILE
7	FG	56	VAL
7	FG	89	ILE
7	FG	94	SER
7	FG	97	LEU

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Mol	Chain	Res	Type
7	FG	98	LEU
7	FG	105	LEU
7	FG	124	THR
7	FG	127	SER
7	FG	148	GLU
7	FG	152	SER
7	FG	157	ASP
7	FG	158	CYS
6	GG	1	MET
6	GG	3	SER
6	GG	4	VAL
6	GG	9	VAL
6	GG	20	SER
6	GG	23	ASP
6	GG	26	SER
6	GG	27	ILE
6	GG	38	LEU
6	GG	44	LEU
6	GG	49	GLU
6	GG	90	MET
6	GG	92	LEU
6	GG	97	LEU
6	GG	98	VAL
6	GG	105	LEU
6	GG	114	ARG
6	GG	115	GLU
6	GG	125	SER
6	GG	136	ASP
7	HG	23	ASP
7	HG	31	ILE
7	HG	56	VAL
7	HG	89	ILE
7	HG	94	SER
7	HG	97	LEU
7	HG	98	LEU
7	HG	105	LEU
7	HG	124	THR
7	HG	127	SER
7	HG	148	GLU
7	HG	152	SER
7	HG	157	ASP
7	HG	158	CYS

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Mol	Chain	Res	Type
6	IG	1	MET
6	IG	3	SER
6	IG	4	VAL
6	IG	9	VAL
6	IG	20	SER
6	IG	23	ASP
6	IG	26	SER
6	IG	27	ILE
6	IG	38	LEU
6	IG	44	LEU
6	IG	49	GLU
6	IG	90	MET
6	IG	92	LEU
6	IG	97	LEU
6	IG	98	VAL
6	IG	105	LEU
6	IG	115	GLU
6	IG	125	SER
6	IG	136	ASP
7	JG	23	ASP
7	JG	31	ILE
7	JG	56	VAL
7	JG	89	ILE
7	JG	94	SER
7	JG	97	LEU
7	JG	98	LEU
7	JG	105	LEU
7	JG	124	THR
7	JG	127	SER
7	JG	148	GLU
7	JG	152	SER
7	JG	157	ASP
7	JG	158	CYS
6	KG	1	MET
6	KG	3	SER
6	KG	4	VAL
6	KG	9	VAL
6	KG	20	SER
6	KG	23	ASP
6	KG	26	SER
6	KG	27	ILE
6	KG	38	LEU

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Mol	Chain	Res	Type
6	KG	44	LEU
6	KG	49	GLU
6	KG	90	MET
6	KG	92	LEU
6	KG	97	LEU
6	KG	98	VAL
6	KG	105	LEU
6	KG	114	ARG
6	KG	115	GLU
6	KG	125	SER
6	KG	136	ASP
7	LG	23	ASP
7	LG	31	ILE
7	LG	56	VAL
7	LG	89	ILE
7	LG	94	SER
7	LG	97	LEU
7	LG	98	LEU
7	LG	105	LEU
7	LG	124	THR
7	LG	127	SER
7	LG	148	GLU
7	LG	152	SER
7	LG	157	ASP
7	LG	158	CYS
14	MG	96	LYS
14	MG	126	SER
14	MG	241	VAL
14	MG	243	MET
14	MG	245	MET
13	kH	4	LYS
13	kH	7	GLU
13	kH	32	ASN
13	kH	40	LYS
13	kH	41	ASP
13	kH	94	LEU
13	kH	128	ILE
13	kH	135	LEU
13	kH	156	THR
13	kH	157	LYS
13	kH	158	LYS
13	kH	172	LYS

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Mol	Chain	Res	Type
13	kH	222	GLU
13	kH	281	SER
13	kH	286	MET
1	XI	291	THR
2	AI	160	VAL
3	BI	225	VAL
3	BI	226	GLN
4	CI	49	GLN
4	EI	49	GLN
5	JI	17	GLU
5	JI	63	GLN
5	LI	20	SER
5	LI	172	VAL
5	NI	39	ASP
5	NI	172	VAL
6	SI	34	SER
7	TI	1	MET
7	TI	2	LEU
7	aI	1	MET
7	aI	128	ILE
7	cI	1	MET
7	cI	2	LEU
7	cI	147	THR
6	fI	42	GLU
7	gI	1	MET
6	hI	6	THR
6	hI	150	VAL
7	iI	1	MET
7	iI	2	LEU
7	iI	131	VAL
6	jI	49	GLU
7	kI	1	MET
7	kI	2	LEU
7	mI	1	MET
7	mI	2	LEU
6	AJ	133	TYR
6	AJ	135	ARG
6	AJ	138	LEU
6	AJ	139	CYS
6	AJ	144	MET
6	AJ	145	SER
7	BJ	28	LYS

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Mol	Chain	Res	Type
7	BJ	36	LYS
7	BJ	145	THR
7	BJ	163	SER
6	CJ	78	LYS
7	DJ	18	TYR
7	FJ	11	ASN
7	FJ	12	SER
7	FJ	15	LYS
7	FJ	19	VAL
7	FJ	31	ILE
7	FJ	114	LYS
7	FJ	115	GLU
7	FJ	125	ASN
7	FJ	128	ILE
7	FJ	131	VAL
7	FJ	142	ILE
7	FJ	148	GLU
7	FJ	158	CYS
7	FJ	159	THR
6	GJ	10	SER
6	GJ	17	ARG
6	GJ	78	LYS
6	GJ	99	VAL
6	GJ	114	ARG
6	GJ	118	ARG
6	GJ	120	LEU
6	GJ	125	SER
7	HJ	19	VAL
7	HJ	22	SER
7	HJ	23	ASP
7	HJ	25	GLN
7	HJ	31	ILE
7	HJ	36	LYS
7	HJ	44	ILE
7	HJ	49	SER
7	HJ	67	ILE
7	HJ	68	SER
7	HJ	103	SER
7	HJ	111	ASN
7	HJ	114	LYS
7	HJ	118	ILE
7	HJ	124	THR

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Mol	Chain	Res	Type
7	HJ	125	ASN
7	HJ	126	SER
7	HJ	128	ILE
7	HJ	131	VAL
7	HJ	132	SER
7	HJ	134	MET
6	IJ	67	LYS
6	IJ	71	GLU
6	IJ	74	GLU
6	IJ	75	ASN
6	IJ	134	THR
6	IJ	137	ARG
6	IJ	138	LEU
6	IJ	145	SER
6	IJ	150	VAL
7	JJ	31	ILE
7	JJ	52	VAL
7	JJ	103	SER
7	JJ	116	THR
7	JJ	117	TYR
7	JJ	118	ILE
7	JJ	127	SER
6	KJ	10	SER
6	KJ	71	GLU
6	KJ	74	GLU
6	KJ	75	ASN
6	KJ	78	LYS
6	KJ	136	ASP
7	LJ	15	LYS
7	LJ	33	ASP
7	LJ	45	VAL
6	MJ	77	GLU
6	MJ	78	LYS
6	MJ	79	ILE
6	MJ	99	VAL
7	NJ	35	ASN
7	NJ	114	LYS
7	NJ	116	THR
7	PJ	15	LYS
7	PJ	19	VAL
7	PJ	27	LEU
7	PJ	33	ASP

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Mol	Chain	Res	Type
7	PJ	45	VAL
7	PJ	46	SER
6	QJ	52	VAL
6	QJ	53	LYS
7	RJ	114	LYS
7	RJ	115	GLU
7	RJ	116	THR
7	RJ	117	TYR
7	RJ	118	ILE
6	SJ	33	ARG
6	SJ	43	LYS
6	SJ	51	VAL
6	SJ	71	GLU
6	SJ	99	VAL
7	TJ	31	ILE
7	TJ	33	ASP
7	TJ	116	THR
7	TJ	118	ILE
6	UJ	67	LYS
6	UJ	75	ASN
6	UJ	77	GLU
6	UJ	79	ILE
6	UJ	81	LYS
7	VJ	114	LYS
7	VJ	115	GLU
6	WJ	68	ASN
6	WJ	71	GLU
7	XJ	163	SER
6	YJ	10	SER
6	YJ	33	ARG
7	ZJ	68	SER
7	ZJ	103	SER
7	ZJ	126	SER
7	ZJ	127	SER
6	aJ	10	SER
6	aJ	38	LEU
6	aJ	39	GLU
6	aJ	42	GLU
6	aJ	44	LEU
7	bJ	68	SER
7	bJ	103	SER
7	bJ	126	SER

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Mol	Chain	Res	Type
7	bJ	127	SER
7	bJ	160	SER
6	cJ	10	SER
6	cJ	71	GLU
6	cJ	135	ARG
7	dJ	68	SER
7	dJ	103	SER
6	eJ	10	SER
7	fJ	33	ASP
7	fJ	68	SER
7	fJ	103	SER
7	fJ	127	SER
6	gJ	10	SER
6	gJ	49	GLU
7	hJ	68	SER
7	hJ	103	SER
7	hJ	126	SER
7	hJ	127	SER
7	hJ	160	SER
6	iJ	71	GLU
6	iJ	163	LEU
6	iJ	164	SER
7	jJ	68	SER
7	jJ	103	SER
7	jJ	126	SER
7	jJ	127	SER
6	kJ	10	SER
6	kJ	99	VAL
6	kJ	119	THR
6	kJ	124	THR
6	kJ	150	VAL
6	kJ	163	LEU
7	lJ	33	ASP
7	lJ	45	VAL
7	lJ	52	VAL
7	lJ	53	SER
7	lJ	68	SER
7	lJ	103	SER
7	lJ	126	SER
7	lJ	127	SER
7	lJ	131	VAL
7	lJ	145	THR

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Mol	Chain	Res	Type
7	lJ	160	SER
6	mJ	10	SER
6	mJ	99	VAL
6	mJ	124	THR
6	mJ	150	VAL
7	nJ	8	VAL
7	nJ	19	VAL
7	nJ	45	VAL
7	nJ	52	VAL
7	nJ	68	SER
7	nJ	103	SER
7	nJ	126	SER
7	nJ	127	SER
7	nJ	131	VAL
7	nJ	160	SER
6	oJ	10	SER
6	oJ	150	VAL
7	pJ	8	VAL
7	pJ	19	VAL
7	pJ	45	VAL
7	pJ	52	VAL
7	pJ	53	SER
7	pJ	68	SER
7	pJ	103	SER
7	pJ	126	SER
7	pJ	127	SER
7	pJ	131	VAL
6	qJ	10	SER
6	qJ	71	GLU
6	qJ	99	VAL
6	qJ	119	THR
6	qJ	124	THR
6	qJ	150	VAL
7	rJ	8	VAL
7	rJ	19	VAL
7	rJ	45	VAL
7	rJ	52	VAL
7	rJ	103	SER
7	rJ	127	SER
7	rJ	131	VAL
7	rJ	160	SER
6	sJ	10	SER

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Mol	Chain	Res	Type
6	sJ	119	THR
6	sJ	124	THR
6	sJ	136	ASP
6	sJ	150	VAL
7	tJ	8	VAL
7	tJ	19	VAL
7	tJ	45	VAL
7	tJ	52	VAL
7	tJ	68	SER
7	tJ	103	SER
7	tJ	126	SER
7	tJ	127	SER
7	tJ	131	VAL
7	tJ	145	THR
7	tJ	163	SER
6	uJ	10	SER
6	uJ	99	VAL
6	uJ	124	THR
6	uJ	150	VAL
7	vJ	8	VAL
7	vJ	19	VAL
7	vJ	45	VAL
7	vJ	52	VAL
7	vJ	68	SER
7	vJ	103	SER
7	vJ	126	SER
7	vJ	127	SER
7	vJ	160	SER
7	vJ	163	SER
16	wJ	39	LEU
16	wJ	41	ASN
16	wJ	43	LYS
16	wJ	44	PHE
16	wJ	100	SER
16	wJ	135	CYS
16	wJ	164	SER
16	wJ	180	SER
16	wJ	198	SER
16	wJ	226	SER
16	wJ	243	VAL
16	wJ	255	GLN
16	wJ	268	SER

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Mol	Chain	Res	Type
16	xJ	41	ASN
16	xJ	42	SER
16	xJ	86	CYS
16	xJ	90	THR
16	xJ	92	LYS
16	xJ	100	SER
16	xJ	135	CYS
16	xJ	153	VAL
16	xJ	164	SER
16	xJ	180	SER
16	xJ	198	SER
16	xJ	226	SER
16	xJ	243	VAL
16	xJ	268	SER
19	zJ	215	THR
19	zJ	220	SER
1	XK	194	GLU
1	XK	211	LYS
2	AK	101	ILE
2	AK	102	GLN
2	AK	105	GLU
3	BK	203	ILE
3	BK	204	ARG
3	BK	205	ARG
3	BK	207	ARG
3	BK	220	LEU
3	BK	227	GLU
4	CK	33	ARG
4	CK	38	LEU
4	CK	39	THR
4	CK	42	LYS
4	CK	68	GLN
4	CK	112	VAL
4	CK	145	GLN
4	CK	160	THR
5	DK	31	VAL
5	DK	32	LYS
5	DK	39	ASP
5	DK	45	THR
5	DK	62	GLU
5	DK	63	GLN
5	DK	155	SER

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Mol	Chain	Res	Type
4	EK	7	GLU
4	EK	116	GLU
4	EK	120	ARG
4	EK	121	SER
4	EK	140	HIS
4	EK	142	LEU
4	EK	145	GLN
4	EK	148	ASN
5	FK	39	ASP
5	FK	57	ARG
5	FK	62	GLU
5	FK	63	GLN
5	FK	98	ILE
5	FK	138	SER
5	FK	144	ASP
5	FK	145	THR
5	FK	154	SER
4	GK	2	LYS
4	GK	21	ASN
4	GK	22	THR
4	GK	67	THR
4	GK	112	VAL
5	HK	32	LYS
5	HK	35	ASN
5	HK	38	LEU
5	HK	143	ASN
5	JK	17	GLU
5	JK	21	ASN
5	JK	28	SER
5	JK	29	LYS
5	JK	30	MET
5	JK	31	VAL
5	JK	32	LYS
5	JK	39	ASP
5	JK	40	ILE
5	JK	41	VAL
5	JK	43	LYS
4	KK	32	GLN
4	KK	35	THR
5	LK	20	SER
5	LK	36	GLN
5	LK	38	LEU

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Mol	Chain	Res	Type
5	LK	39	ASP
5	LK	41	VAL
4	MK	38	LEU
4	MK	39	THR
4	MK	42	LYS
4	MK	108	ASP
4	MK	112	VAL
5	NK	19	LEU
5	NK	21	ASN
5	NK	31	VAL
5	NK	37	ARG
5	NK	39	ASP
5	NK	62	GLU
5	NK	98	ILE
7	PK	3	ASP
7	RK	157	ASP
6	UK	157	ASP
6	WK	53	LYS
6	ZK	53	LYS
7	aK	3	ASP
6	hK	4	VAL
6	lK	52	VAL
6	lK	53	LYS
6	AL	133	TYR
6	AL	135	ARG
6	AL	138	LEU
6	AL	139	CYS
6	AL	144	MET
6	AL	145	SER
7	BL	28	LYS
7	BL	36	LYS
7	BL	145	THR
7	BL	163	SER
6	CL	78	LYS
7	DL	18	TYR
7	FL	11	ASN
7	FL	12	SER
7	FL	15	LYS
7	FL	19	VAL
7	FL	31	ILE
7	FL	114	LYS
7	FL	115	GLU

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Mol	Chain	Res	Type
7	FL	125	ASN
7	FL	128	ILE
7	FL	131	VAL
7	FL	142	ILE
7	FL	148	GLU
7	FL	158	CYS
7	FL	159	THR
6	GL	10	SER
6	GL	17	ARG
6	GL	99	VAL
6	GL	114	ARG
6	GL	118	ARG
6	GL	120	LEU
6	GL	125	SER
7	HL	19	VAL
7	HL	22	SER
7	HL	23	ASP
7	HL	25	GLN
7	HL	31	ILE
7	HL	36	LYS
7	HL	44	ILE
7	HL	49	SER
7	HL	67	ILE
7	HL	68	SER
7	HL	103	SER
7	HL	111	ASN
7	HL	114	LYS
7	HL	118	ILE
7	HL	124	THR
7	HL	125	ASN
7	HL	126	SER
7	HL	128	ILE
7	HL	131	VAL
7	HL	132	SER
7	HL	134	MET
6	IL	67	LYS
6	IL	71	GLU
6	IL	74	GLU
6	IL	75	ASN
6	IL	134	THR
6	IL	137	ARG
6	IL	138	LEU

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Mol	Chain	Res	Type
6	IL	145	SER
6	IL	150	VAL
7	JL	31	ILE
7	JL	52	VAL
7	JL	103	SER
7	JL	116	THR
7	JL	117	TYR
7	JL	118	ILE
7	JL	127	SER
6	KL	10	SER
6	KL	71	GLU
6	KL	74	GLU
6	KL	75	ASN
6	KL	78	LYS
6	KL	136	ASP
7	LL	15	LYS
7	LL	33	ASP
7	LL	45	VAL
6	ML	77	GLU
6	ML	78	LYS
6	ML	79	ILE
6	ML	99	VAL
6	ML	145	SER
7	NL	35	ASN
7	NL	114	LYS
7	NL	116	THR
7	PL	15	LYS
7	PL	19	VAL
7	PL	27	LEU
7	PL	33	ASP
7	PL	45	VAL
7	PL	46	SER
6	QL	52	VAL
6	QL	53	LYS
7	RL	114	LYS
7	RL	115	GLU
7	RL	116	THR
7	RL	117	TYR
7	RL	118	ILE
6	SL	43	LYS
6	SL	51	VAL
6	SL	71	GLU

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Mol	Chain	Res	Type
6	SL	99	VAL
7	TL	31	ILE
7	TL	33	ASP
7	TL	116	THR
7	TL	118	ILE
6	UL	67	LYS
6	UL	75	ASN
6	UL	77	GLU
6	UL	79	ILE
6	UL	81	LYS
7	VL	114	LYS
7	VL	115	GLU
6	WL	68	ASN
6	WL	71	GLU
7	XL	163	SER
6	YL	10	SER
6	YL	33	ARG
7	ZL	68	SER
7	ZL	103	SER
7	ZL	126	SER
7	ZL	127	SER
6	aL	10	SER
6	aL	38	LEU
6	aL	39	GLU
6	aL	42	GLU
6	aL	44	LEU
7	bL	68	SER
7	bL	103	SER
7	bL	126	SER
7	bL	127	SER
7	bL	160	SER
6	cL	10	SER
6	cL	71	GLU
6	cL	135	ARG
6	cL	137	ARG
7	dL	68	SER
7	dL	103	SER
6	eL	10	SER
7	fL	33	ASP
7	fL	68	SER
7	fL	103	SER
7	fL	127	SER

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Mol	Chain	Res	Type
6	gL	10	SER
7	hL	68	SER
7	hL	103	SER
7	hL	126	SER
7	hL	127	SER
7	hL	160	SER
6	iL	71	GLU
6	iL	163	LEU
6	iL	164	SER
7	jL	68	SER
7	jL	103	SER
7	jL	126	SER
7	jL	127	SER
6	kL	10	SER
6	kL	99	VAL
6	kL	119	THR
6	kL	124	THR
6	kL	150	VAL
6	kL	163	LEU
7	lL	33	ASP
7	lL	45	VAL
7	lL	52	VAL
7	lL	53	SER
7	lL	68	SER
7	lL	103	SER
7	lL	126	SER
7	lL	127	SER
7	lL	131	VAL
7	lL	145	THR
7	lL	160	SER
6	mL	10	SER
6	mL	99	VAL
6	mL	124	THR
6	mL	150	VAL
7	nL	8	VAL
7	nL	19	VAL
7	nL	45	VAL
7	nL	52	VAL
7	nL	68	SER
7	nL	103	SER
7	nL	126	SER
7	nL	127	SER

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Mol	Chain	Res	Type
7	nL	131	VAL
7	nL	160	SER
6	oL	10	SER
6	oL	150	VAL
7	pL	8	VAL
7	pL	19	VAL
7	pL	45	VAL
7	pL	52	VAL
7	pL	53	SER
7	pL	68	SER
7	pL	103	SER
7	pL	126	SER
7	pL	127	SER
7	pL	131	VAL
6	qL	10	SER
6	qL	71	GLU
6	qL	99	VAL
6	qL	119	THR
6	qL	124	THR
6	qL	150	VAL
7	rL	8	VAL
7	rL	19	VAL
7	rL	45	VAL
7	rL	52	VAL
7	rL	103	SER
7	rL	127	SER
7	rL	131	VAL
7	rL	160	SER
6	sL	10	SER
6	sL	119	THR
6	sL	124	THR
6	sL	136	ASP
6	sL	150	VAL
7	tL	8	VAL
7	tL	19	VAL
7	tL	45	VAL
7	tL	52	VAL
7	tL	68	SER
7	tL	103	SER
7	tL	126	SER
7	tL	127	SER
7	tL	131	VAL

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Mol	Chain	Res	Type
7	tL	145	THR
7	tL	163	SER
6	uL	10	SER
6	uL	99	VAL
6	uL	124	THR
6	uL	150	VAL
7	vL	8	VAL
7	vL	19	VAL
7	vL	45	VAL
7	vL	52	VAL
7	vL	68	SER
7	vL	103	SER
7	vL	126	SER
7	vL	127	SER
7	vL	160	SER
7	vL	163	SER
16	wL	39	LEU
16	wL	41	ASN
16	wL	43	LYS
16	wL	44	PHE
16	wL	100	SER
16	wL	135	CYS
16	wL	164	SER
16	wL	180	SER
16	wL	198	SER
16	wL	226	SER
16	wL	243	VAL
16	wL	255	GLN
16	wL	268	SER
16	xL	41	ASN
16	xL	42	SER
16	xL	86	CYS
16	xL	90	THR
16	xL	100	SER
16	xL	135	CYS
16	xL	153	VAL
16	xL	164	SER
16	xL	180	SER
16	xL	198	SER
16	xL	226	SER
16	xL	243	VAL
16	xL	268	SER

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Mol	Chain	Res	Type
19	zL	215	THR
19	zL	220	SER
19	zL	361	ARG
15	bM	91	ILE
15	bM	202	THR
15	bM	204	CYS
15	bM	270	ASN
15	bM	332	MET
15	bM	333	ARG
15	bM	346	ILE
15	bM	349	LYS
15	bM	350	VAL
15	bM	351	ASP
17	BM	180	SER
17	BM	181	THR
6	CM	6	THR
7	DM	159	THR
7	DM	160	SER
6	EM	99	VAL
6	EM	147	GLN
7	FM	139	VAL
6	GM	49	GLU
6	GM	134	THR
6	GM	135	ARG
6	GM	137	ARG
6	GM	147	GLN
6	GM	159	LEU
7	HM	8	VAL
7	HM	10	VAL
7	HM	31	ILE
7	HM	33	ASP
7	HM	52	VAL
7	HM	160	SER
7	JM	145	THR
7	JM	147	THR
6	KM	21	ASN
6	MM	49	GLU
7	NM	62	GLU
7	NM	85	ASP
7	NM	114	LYS
7	NM	124	THR
7	NM	159	THR

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Mol	Chain	Res	Type
7	NM	160	SER
6	QM	136	ASP
6	QM	157	ASP
7	RM	8	VAL
7	RM	61	CYS
7	RM	62	GLU
7	RM	145	THR
7	RM	148	GLU
6	SM	49	GLU
6	SM	54	GLU
7	TM	24	LEU
7	TM	25	GLN
7	TM	159	THR
7	TM	170	ASP
7	VM	85	ASP
7	VM	159	THR
7	VM	160	SER
6	WM	121	ASN
7	ZM	31	ILE
7	ZM	61	CYS
7	ZM	84	ARG
7	ZM	124	THR
7	ZM	127	SER
7	cM	159	THR
7	eM	63	ASN
7	eM	84	ARG
7	eM	125	ASN
6	fM	136	ASP
7	gM	35	ASN
7	gM	60	ILE
7	gM	84	ARG
7	gM	159	THR
7	iM	114	LYS
7	iM	115	GLU
6	jM	53	LYS
6	jM	137	ARG
7	kM	61	CYS
7	kM	62	GLU
7	kM	83	LEU
7	kM	84	ARG
7	kM	85	ASP
7	kM	88	ILE

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Mol	Chain	Res	Type
7	kM	126	SER
7	kM	127	SER
6	lM	53	LYS
6	lM	77	GLU
7	mM	159	THR
7	mM	160	SER
6	AN	3	SER
6	AN	26	SER
6	AN	39	GLU
6	AN	124	THR
6	AN	131	ILE
6	AN	134	THR
6	AN	138	LEU
6	AN	140	VAL
6	AN	150	VAL
6	AN	153	SER
7	BN	12	SER
7	BN	13	ASP
7	BN	19	VAL
7	BN	24	LEU
7	BN	43	SER
7	BN	56	VAL
7	BN	113	LEU
7	BN	126	SER
7	BN	127	SER
7	BN	152	SER
7	BN	176	ILE
6	CN	3	SER
6	CN	5	ILE
6	CN	21	ASN
6	CN	26	SER
6	CN	105	LEU
6	CN	124	THR
6	CN	131	ILE
6	CN	134	THR
6	CN	138	LEU
6	CN	140	VAL
6	CN	150	VAL
6	CN	153	SER
7	DN	12	SER
7	DN	24	LEU
7	DN	43	SER

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Mol	Chain	Res	Type
7	DN	56	VAL
7	DN	126	SER
7	DN	127	SER
7	DN	139	VAL
7	DN	152	SER
7	DN	176	ILE
6	EN	3	SER
6	EN	5	ILE
6	EN	26	SER
6	EN	39	GLU
6	EN	124	THR
6	EN	131	ILE
6	EN	138	LEU
6	EN	140	VAL
6	EN	150	VAL
7	FN	12	SER
7	FN	13	ASP
7	FN	19	VAL
7	FN	43	SER
7	FN	56	VAL
7	FN	126	SER
7	FN	127	SER
7	FN	139	VAL
7	FN	152	SER
7	FN	176	ILE
6	GN	3	SER
6	GN	5	ILE
6	GN	26	SER
6	GN	39	GLU
6	GN	124	THR
6	GN	131	ILE
6	GN	138	LEU
6	GN	140	VAL
6	GN	150	VAL
6	GN	153	SER
7	HN	12	SER
7	HN	13	ASP
7	HN	24	LEU
7	HN	43	SER
7	HN	56	VAL
7	HN	113	LEU
7	HN	126	SER

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Mol	Chain	Res	Type
7	HN	127	SER
7	HN	139	VAL
7	HN	152	SER
7	HN	160	SER
7	HN	176	ILE
6	IN	3	SER
6	IN	5	ILE
6	IN	26	SER
6	IN	32	GLN
6	IN	38	LEU
6	IN	105	LEU
6	IN	124	THR
6	IN	131	ILE
6	IN	134	THR
6	IN	138	LEU
6	IN	140	VAL
6	IN	150	VAL
6	IN	153	SER
7	JN	12	SER
7	JN	24	LEU
7	JN	43	SER
7	JN	56	VAL
7	JN	113	LEU
7	JN	126	SER
7	JN	127	SER
7	JN	139	VAL
7	JN	152	SER
7	JN	176	ILE
6	KN	3	SER
6	KN	5	ILE
6	KN	26	SER
6	KN	39	GLU
6	KN	105	LEU
6	KN	124	THR
6	KN	134	THR
6	KN	138	LEU
6	KN	140	VAL
6	KN	150	VAL
6	KN	153	SER
7	LN	12	SER
7	LN	24	LEU
7	LN	43	SER

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Mol	Chain	Res	Type
7	LN	56	VAL
7	LN	126	SER
7	LN	127	SER
7	LN	152	SER
14	MN	96	LYS
14	MN	103	ARG
14	MN	145	CYS
14	MN	195	CYS
6	AO	10	SER
6	AO	20	SER
6	AO	51	VAL
6	AO	52	VAL
6	AO	116	VAL
7	BO	57	SER
7	BO	103	SER
7	BO	127	SER
6	CO	10	SER
6	CO	20	SER
6	CO	51	VAL
6	CO	52	VAL
6	CO	93	VAL
6	CO	98	VAL
6	CO	99	VAL
6	CO	116	VAL
6	CO	124	THR
6	CO	134	THR
6	CO	140	VAL
7	DO	27	LEU
7	DO	56	VAL
7	DO	103	SER
7	DO	120	LEU
7	DO	127	SER
7	DO	159	THR
7	DO	165	VAL
7	DO	172	VAL
6	EO	10	SER
6	EO	20	SER
6	EO	51	VAL
6	EO	52	VAL
6	EO	93	VAL
6	EO	98	VAL
6	EO	99	VAL

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Mol	Chain	Res	Type
6	EO	102	THR
6	EO	116	VAL
6	EO	124	THR
6	EO	134	THR
6	EO	140	VAL
7	FO	27	LEU
7	FO	56	VAL
7	FO	103	SER
7	FO	127	SER
7	FO	159	THR
7	FO	165	VAL
7	FO	170	ASP
7	FO	172	VAL
7	FO	176	ILE
6	GO	10	SER
6	GO	20	SER
6	GO	51	VAL
6	GO	52	VAL
6	GO	93	VAL
6	GO	98	VAL
6	GO	99	VAL
6	GO	116	VAL
6	GO	124	THR
6	GO	140	VAL
7	HO	56	VAL
7	HO	103	SER
7	HO	120	LEU
7	HO	127	SER
7	HO	132	SER
7	HO	159	THR
7	HO	160	SER
7	HO	165	VAL
7	HO	172	VAL
7	HO	176	ILE
6	IO	10	SER
6	IO	20	SER
6	IO	51	VAL
6	IO	52	VAL
6	IO	93	VAL
6	IO	98	VAL
6	IO	99	VAL
6	IO	102	THR

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Mol	Chain	Res	Type
6	IO	116	VAL
6	IO	124	THR
6	IO	134	THR
6	IO	138	LEU
6	IO	140	VAL
7	JO	27	LEU
7	JO	56	VAL
7	JO	103	SER
7	JO	120	LEU
7	JO	127	SER
7	JO	145	THR
7	JO	159	THR
7	JO	165	VAL
7	JO	172	VAL
6	KO	10	SER
6	KO	20	SER
6	KO	24	LEU
6	KO	53	LYS
6	KO	98	VAL
6	KO	99	VAL
6	KO	102	THR
6	KO	116	VAL
6	KO	124	THR
6	KO	134	THR
6	KO	140	VAL
7	LO	27	LEU
7	LO	56	VAL
7	LO	103	SER
7	LO	120	LEU
7	LO	127	SER
7	LO	145	THR
7	LO	159	THR
7	LO	165	VAL
7	LO	172	VAL
7	MO	41	VAL
7	MO	50	CYS
7	MO	67	ILE
7	MO	68	SER
7	MO	91	ARG
7	MO	103	SER
7	MO	126	SER
7	MO	131	VAL

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Mol	Chain	Res	Type
7	MO	147	THR
7	MO	159	THR
7	MO	160	SER
7	NO	41	VAL
7	NO	50	CYS
7	NO	67	ILE
7	NO	68	SER
7	NO	91	ARG
7	NO	103	SER
7	NO	126	SER
7	NO	131	VAL
7	NO	147	THR
7	NO	159	THR
7	NO	160	SER
9	OO	49	VAL
20	AP	5	THR
20	AP	7	SER
20	AP	9	VAL
20	AP	27	LYS
20	AP	30	VAL
20	AP	45	GLU
20	AP	56	GLN
20	AP	67	SER
20	AP	76	GLU
20	AP	135	ASP
20	AP	136	VAL
20	AP	139	SER
20	AP	140	LEU
20	AP	144	GLU
20	AP	149	VAL
20	AP	151	PHE
21	DP	1	MET
21	DP	43	THR
21	DP	64	ASP
21	DP	114	GLU
21	DP	118	SER
21	DP	135	GLU
21	DP	140	LEU
21	DP	143	SER
21	DP	147	LYS
21	DP	148	GLU
21	DP	158	SER

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Mol	Chain	Res	Type
20	CP	5	THR
20	CP	7	SER
20	CP	9	VAL
20	CP	27	LYS
20	CP	30	VAL
20	CP	45	GLU
20	CP	56	GLN
20	CP	67	SER
20	CP	76	GLU
20	CP	135	ASP
20	CP	136	VAL
20	CP	139	SER
20	CP	140	LEU
20	CP	144	GLU
20	CP	149	VAL
20	CP	151	PHE
21	FP	1	MET
21	FP	43	THR
21	FP	64	ASP
21	FP	65	ILE
21	FP	67	ARG
21	FP	72	MET
21	FP	114	GLU
21	FP	118	SER
21	FP	135	GLU
21	FP	140	LEU
21	FP	143	SER
21	FP	147	LYS
21	FP	148	GLU
21	FP	158	SER
20	EP	5	THR
20	EP	7	SER
20	EP	9	VAL
20	EP	27	LYS
20	EP	30	VAL
20	EP	45	GLU
20	EP	56	GLN
20	EP	67	SER
20	EP	76	GLU
20	EP	135	ASP
20	EP	136	VAL
20	EP	139	SER

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Mol	Chain	Res	Type
20	EP	140	LEU
20	EP	144	GLU
20	EP	149	VAL
20	EP	151	PHE
21	BP	1	MET
21	BP	43	THR
21	BP	64	ASP
21	BP	114	GLU
21	BP	118	SER
21	BP	135	GLU
21	BP	140	LEU
21	BP	143	SER
21	BP	147	LYS
21	BP	148	GLU
21	BP	158	SER
20	GP	5	THR
20	GP	7	SER
20	GP	9	VAL
20	GP	27	LYS
20	GP	30	VAL
20	GP	45	GLU
20	GP	56	GLN
20	GP	67	SER
20	GP	76	GLU
20	GP	135	ASP
20	GP	136	VAL
20	GP	139	SER
20	GP	140	LEU
20	GP	144	GLU
20	GP	149	VAL
20	GP	151	PHE
21	HP	1	MET
21	HP	43	THR
21	HP	64	ASP
21	HP	114	GLU
21	HP	118	SER
21	HP	135	GLU
21	HP	140	LEU
21	HP	143	SER
21	HP	147	LYS
21	HP	148	GLU
21	HP	158	SER

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Mol	Chain	Res	Type
21	IP	1	MET
21	IP	43	THR
21	IP	64	ASP
21	IP	114	GLU
21	IP	118	SER
21	IP	135	GLU
21	IP	140	LEU
21	IP	143	SER
21	IP	147	LYS
21	IP	148	GLU
21	IP	158	SER
20	JP	5	THR
20	JP	7	SER
20	JP	9	VAL
20	JP	27	LYS
20	JP	30	VAL
20	JP	56	GLN
20	JP	67	SER
20	JP	76	GLU
20	JP	135	ASP
20	JP	136	VAL
20	JP	139	SER
20	JP	140	LEU
20	JP	144	GLU
20	JP	149	VAL
20	JP	151	PHE
20	KP	5	THR
20	KP	7	SER
20	KP	9	VAL
20	KP	27	LYS
20	KP	30	VAL
20	KP	45	GLU
20	KP	56	GLN
20	KP	67	SER
20	KP	76	GLU
20	KP	135	ASP
20	KP	136	VAL
20	KP	139	SER
20	KP	140	LEU
20	KP	144	GLU
20	KP	149	VAL
20	KP	151	PHE

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Mol	Chain	Res	Type
21	LP	1	MET
21	LP	43	THR
21	LP	64	ASP
21	LP	114	GLU
21	LP	118	SER
21	LP	135	GLU
21	LP	140	LEU
21	LP	143	SER
21	LP	147	LYS
21	LP	148	GLU
21	LP	158	SER
21	MP	1	MET
21	MP	43	THR
21	MP	64	ASP
21	MP	114	GLU
21	MP	118	SER
21	MP	135	GLU
21	MP	140	LEU
21	MP	143	SER
21	MP	148	GLU
21	MP	158	SER
20	NP	5	THR
20	NP	7	SER
20	NP	9	VAL
20	NP	27	LYS
20	NP	30	VAL
20	NP	45	GLU
20	NP	56	GLN
20	NP	67	SER
20	NP	76	GLU
20	NP	135	ASP
20	NP	136	VAL
20	NP	139	SER
20	NP	140	LEU
20	NP	144	GLU
20	NP	149	VAL
20	NP	151	PHE
21	OP	1	MET
21	OP	43	THR
21	OP	64	ASP
21	OP	114	GLU
21	OP	118	SER

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Mol	Chain	Res	Type
21	OP	135	GLU
21	OP	140	LEU
21	OP	143	SER
21	OP	147	LYS
21	OP	148	GLU
21	OP	158	SER
20	PP	5	THR
20	PP	7	SER
20	PP	9	VAL
20	PP	27	LYS
20	PP	30	VAL
20	PP	45	GLU
20	PP	56	GLN
20	PP	67	SER
20	PP	135	ASP
20	PP	136	VAL
20	PP	139	SER
20	PP	140	LEU
20	PP	144	GLU
20	PP	149	VAL
20	PP	151	PHE
21	QP	1	MET
21	QP	43	THR
21	QP	64	ASP
21	QP	67	ARG
21	QP	114	GLU
21	QP	118	SER
21	QP	135	GLU
21	QP	140	LEU
21	QP	143	SER
21	QP	147	LYS
21	QP	148	GLU
21	QP	158	SER
20	RP	5	THR
20	RP	7	SER
20	RP	9	VAL
20	RP	27	LYS
20	RP	30	VAL
20	RP	45	GLU
20	RP	56	GLN
20	RP	67	SER
20	RP	76	GLU

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Mol	Chain	Res	Type
20	RP	135	ASP
20	RP	136	VAL
20	RP	139	SER
20	RP	140	LEU
20	RP	144	GLU
20	RP	149	VAL
20	RP	151	PHE
21	SP	1	MET
21	SP	43	THR
21	SP	64	ASP
21	SP	114	GLU
21	SP	118	SER
21	SP	135	GLU
21	SP	140	LEU
21	SP	143	SER
21	SP	147	LYS
21	SP	148	GLU
21	SP	158	SER
20	TP	5	THR
20	TP	7	SER
20	TP	9	VAL
20	TP	27	LYS
20	TP	30	VAL
20	TP	45	GLU
20	TP	56	GLN
20	TP	67	SER
20	TP	76	GLU
20	TP	135	ASP
20	TP	136	VAL
20	TP	139	SER
20	TP	140	LEU
20	TP	144	GLU
20	TP	149	VAL
20	TP	151	PHE
21	UP	1	MET
21	UP	43	THR
21	UP	64	ASP
21	UP	72	MET
21	UP	114	GLU
21	UP	118	SER
21	UP	135	GLU
21	UP	140	LEU

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Mol	Chain	Res	Type
21	UP	143	SER
21	UP	147	LYS
21	UP	148	GLU
21	UP	158	SER
22	VP	144	GLU
24	XP	51	SER
25	YP	44	VAL
25	YP	148	SER
25	YP	204	SER
25	YP	208	GLU
25	YP	512	GLU
25	YP	624	SER
25	YP	701	LEU
26	ZP	125	ASP
27	aP	58	ASP
27	aP	59	LYS
27	aP	144	SER
27	aP	150	ASP
27	aP	181	SER
27	aP	270	ARG
27	aP	286	ARG
27	aP	287	LEU
27	aP	288	VAL
28	bP	40	ARG
28	bP	78	GLN
28	bP	122	SER
28	bP	225	ARG
20	cP	5	THR
20	cP	7	SER
20	cP	9	VAL
20	cP	27	LYS
20	cP	30	VAL
20	cP	45	GLU
20	cP	56	GLN
20	cP	67	SER
20	cP	76	GLU
20	cP	135	ASP
20	cP	136	VAL
20	cP	139	SER
20	cP	140	LEU
20	cP	144	GLU
20	cP	149	VAL

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Mol	Chain	Res	Type
20	cP	151	PHE
21	dP	1	MET
21	dP	43	THR
21	dP	64	ASP
21	dP	114	GLU
21	dP	118	SER
21	dP	135	GLU
21	dP	140	LEU
21	dP	143	SER
21	dP	147	LYS
21	dP	148	GLU
21	dP	158	SER
20	eP	5	THR
20	eP	7	SER
20	eP	9	VAL
20	eP	27	LYS
20	eP	30	VAL
20	eP	45	GLU
20	eP	56	GLN
20	eP	67	SER
20	eP	76	GLU
20	eP	135	ASP
20	eP	136	VAL
20	eP	139	SER
20	eP	140	LEU
20	eP	144	GLU
20	eP	149	VAL
20	eP	151	PHE
21	fP	1	MET
21	fP	43	THR
21	fP	64	ASP
21	fP	72	MET
21	fP	114	GLU
21	fP	118	SER
21	fP	135	GLU
21	fP	140	LEU
21	fP	143	SER
21	fP	147	LYS
21	fP	148	GLU
21	fP	158	SER
20	gP	5	THR
20	gP	7	SER

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Mol	Chain	Res	Type
20	gP	9	VAL
20	gP	27	LYS
20	gP	30	VAL
20	gP	45	GLU
20	gP	56	GLN
20	gP	67	SER
20	gP	76	GLU
20	gP	135	ASP
20	gP	136	VAL
20	gP	139	SER
20	gP	140	LEU
20	gP	144	GLU
20	gP	149	VAL
20	gP	151	PHE
21	hP	1	MET
21	hP	43	THR
21	hP	64	ASP
21	hP	114	GLU
21	hP	118	SER
21	hP	135	GLU
21	hP	140	LEU
21	hP	143	SER
21	hP	147	LYS
21	hP	148	GLU
21	hP	158	SER
20	iP	5	THR
20	iP	7	SER
20	iP	9	VAL
20	iP	27	LYS
20	iP	30	VAL
20	iP	45	GLU
20	iP	56	GLN
20	iP	67	SER
20	iP	76	GLU
20	iP	135	ASP
20	iP	136	VAL
20	iP	139	SER
20	iP	140	LEU
20	iP	144	GLU
20	iP	149	VAL
20	iP	151	PHE
21	jP	1	MET

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Mol	Chain	Res	Type
21	jP	43	THR
21	jP	64	ASP
21	jP	114	GLU
21	jP	118	SER
21	jP	135	GLU
21	jP	140	LEU
21	jP	143	SER
21	jP	147	LYS
21	jP	148	GLU
21	jP	158	SER
21	kP	1	MET
21	kP	43	THR
21	kP	64	ASP
21	kP	114	GLU
21	kP	118	SER
21	kP	135	GLU
21	kP	140	LEU
21	kP	143	SER
21	kP	147	LYS
21	kP	148	GLU
21	kP	158	SER
20	lP	5	THR
20	lP	7	SER
20	lP	9	VAL
20	lP	27	LYS
20	lP	30	VAL
20	lP	45	GLU
20	lP	56	GLN
20	lP	67	SER
20	lP	76	GLU
20	lP	135	ASP
20	lP	136	VAL
20	lP	139	SER
20	lP	140	LEU
20	lP	144	GLU
20	lP	149	VAL
20	lP	151	PHE
20	mP	5	THR
20	mP	7	SER
20	mP	9	VAL
20	mP	27	LYS
20	mP	30	VAL

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Mol	Chain	Res	Type
20	mP	45	GLU
20	mP	56	GLN
20	mP	67	SER
20	mP	76	GLU
20	mP	135	ASP
20	mP	136	VAL
20	mP	139	SER
20	mP	140	LEU
20	mP	144	GLU
20	mP	149	VAL
20	mP	151	PHE
21	nP	1	MET
21	nP	43	THR
21	nP	64	ASP
21	nP	114	GLU
21	nP	118	SER
21	nP	135	GLU
21	nP	140	LEU
21	nP	143	SER
21	nP	147	LYS
21	nP	148	GLU
21	nP	158	SER
21	oP	1	MET
21	oP	43	THR
21	oP	60	LEU
21	oP	72	MET
21	oP	114	GLU
21	oP	118	SER
21	oP	128	GLN
21	oP	135	GLU
21	oP	140	LEU
21	oP	143	SER
21	oP	147	LYS
21	oP	148	GLU
21	oP	158	SER
20	pP	5	THR
20	pP	7	SER
20	pP	9	VAL
20	pP	27	LYS
20	pP	30	VAL
20	pP	45	GLU
20	pP	56	GLN

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Mol	Chain	Res	Type
20	pP	67	SER
20	pP	76	GLU
20	pP	135	ASP
20	pP	136	VAL
20	pP	139	SER
20	pP	140	LEU
20	pP	144	GLU
20	pP	149	VAL
20	pP	151	PHE
21	qP	1	MET
21	qP	43	THR
21	qP	64	ASP
21	qP	114	GLU
21	qP	118	SER
21	qP	135	GLU
21	qP	140	LEU
21	qP	143	SER
21	qP	147	LYS
21	qP	148	GLU
21	qP	158	SER
20	rP	5	THR
20	rP	7	SER
20	rP	9	VAL
20	rP	27	LYS
20	rP	30	VAL
20	rP	45	GLU
20	rP	67	SER
20	rP	76	GLU
20	rP	135	ASP
20	rP	136	VAL
20	rP	139	SER
20	rP	140	LEU
20	rP	144	GLU
20	rP	149	VAL
20	rP	151	PHE
21	sP	1	MET
21	sP	43	THR
21	sP	64	ASP
21	sP	114	GLU
21	sP	118	SER
21	sP	135	GLU
21	sP	140	LEU

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Mol	Chain	Res	Type
21	sP	143	SER
21	sP	147	LYS
21	sP	148	GLU
21	sP	158	SER
20	tP	5	THR
20	tP	7	SER
20	tP	9	VAL
20	tP	27	LYS
20	tP	30	VAL
20	tP	45	GLU
20	tP	56	GLN
20	tP	67	SER
20	tP	76	GLU
20	tP	135	ASP
20	tP	136	VAL
20	tP	139	SER
20	tP	140	LEU
20	tP	144	GLU
20	tP	149	VAL
20	tP	151	PHE
21	uP	1	MET
21	uP	43	THR
21	uP	64	ASP
21	uP	114	GLU
21	uP	118	SER
21	uP	135	GLU
21	uP	140	LEU
21	uP	143	SER
21	uP	147	LYS
21	uP	148	GLU
21	uP	158	SER
20	vP	5	THR
20	vP	7	SER
20	vP	9	VAL
20	vP	27	LYS
20	vP	30	VAL
20	vP	45	GLU
20	vP	56	GLN
20	vP	67	SER
20	vP	76	GLU
20	vP	135	ASP
20	vP	136	VAL

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Mol	Chain	Res	Type
20	vP	139	SER
20	vP	140	LEU
20	vP	144	GLU
20	vP	149	VAL
20	vP	151	PHE
21	wP	1	MET
21	wP	43	THR
21	wP	64	ASP
21	wP	72	MET
21	wP	114	GLU
21	wP	118	SER
21	wP	135	GLU
21	wP	140	LEU
21	wP	143	SER
21	wP	147	LYS
21	wP	148	GLU
21	wP	158	SER
22	xP	144	GLU
24	zP	51	SER
25	1P	44	VAL
25	1P	148	SER
25	1P	204	SER
25	1P	208	GLU
25	1P	512	GLU
25	1P	624	SER
25	1P	662	ILE
25	1P	701	LEU
27	3P	59	LYS
27	3P	144	SER
27	3P	150	ASP
27	3P	181	SER
27	3P	286	ARG
27	3P	287	LEU
27	3P	288	VAL
28	4P	40	ARG
28	4P	78	GLN
28	4P	122	SER
28	4P	225	ARG
6	AQ	1	MET
6	AQ	3	SER
6	AQ	4	VAL
6	AQ	9	VAL

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Mol	Chain	Res	Type
6	AQ	20	SER
6	AQ	26	SER
6	AQ	27	ILE
6	AQ	44	LEU
6	AQ	90	MET
6	AQ	97	LEU
6	AQ	98	VAL
6	AQ	105	LEU
6	AQ	114	ARG
6	AQ	115	GLU
6	AQ	125	SER
6	AQ	136	ASP
7	BQ	23	ASP
7	BQ	31	ILE
7	BQ	56	VAL
7	BQ	89	ILE
7	BQ	94	SER
7	BQ	105	LEU
7	BQ	124	THR
7	BQ	127	SER
7	BQ	148	GLU
7	BQ	152	SER
7	BQ	157	ASP
7	BQ	158	CYS
6	CQ	1	MET
6	CQ	3	SER
6	CQ	4	VAL
6	CQ	9	VAL
6	CQ	20	SER
6	CQ	23	ASP
6	CQ	26	SER
6	CQ	27	ILE
6	CQ	33	ARG
6	CQ	38	LEU
6	CQ	44	LEU
6	CQ	49	GLU
6	CQ	90	MET
6	CQ	92	LEU
6	CQ	97	LEU
6	CQ	98	VAL
6	CQ	105	LEU
6	CQ	114	ARG

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Mol	Chain	Res	Type
6	CQ	115	GLU
6	CQ	125	SER
6	CQ	136	ASP
7	DQ	23	ASP
7	DQ	31	ILE
7	DQ	56	VAL
7	DQ	89	ILE
7	DQ	94	SER
7	DQ	97	LEU
7	DQ	98	LEU
7	DQ	105	LEU
7	DQ	124	THR
7	DQ	127	SER
7	DQ	148	GLU
7	DQ	152	SER
7	DQ	157	ASP
7	DQ	158	CYS
6	EQ	1	MET
6	EQ	3	SER
6	EQ	4	VAL
6	EQ	9	VAL
6	EQ	20	SER
6	EQ	23	ASP
6	EQ	26	SER
6	EQ	27	ILE
6	EQ	38	LEU
6	EQ	44	LEU
6	EQ	49	GLU
6	EQ	90	MET
6	EQ	92	LEU
6	EQ	97	LEU
6	EQ	98	VAL
6	EQ	105	LEU
6	EQ	114	ARG
6	EQ	115	GLU
6	EQ	125	SER
6	EQ	136	ASP
7	FQ	23	ASP
7	FQ	31	ILE
7	FQ	56	VAL
7	FQ	89	ILE
7	FQ	94	SER

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Mol	Chain	Res	Type
7	FQ	97	LEU
7	FQ	98	LEU
7	FQ	105	LEU
7	FQ	124	THR
7	FQ	127	SER
7	FQ	148	GLU
7	FQ	152	SER
7	FQ	157	ASP
7	FQ	158	CYS
6	GQ	1	MET
6	GQ	3	SER
6	GQ	4	VAL
6	GQ	9	VAL
6	GQ	20	SER
6	GQ	23	ASP
6	GQ	26	SER
6	GQ	27	ILE
6	GQ	38	LEU
6	GQ	44	LEU
6	GQ	49	GLU
6	GQ	90	MET
6	GQ	92	LEU
6	GQ	97	LEU
6	GQ	98	VAL
6	GQ	105	LEU
6	GQ	114	ARG
6	GQ	115	GLU
6	GQ	125	SER
6	GQ	136	ASP
7	HQ	23	ASP
7	HQ	31	ILE
7	HQ	56	VAL
7	HQ	89	ILE
7	HQ	94	SER
7	HQ	97	LEU
7	HQ	98	LEU
7	HQ	105	LEU
7	HQ	124	THR
7	HQ	127	SER
7	HQ	148	GLU
7	HQ	152	SER
7	HQ	157	ASP

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Mol	Chain	Res	Type
7	HQ	158	CYS
6	IQ	1	MET
6	IQ	3	SER
6	IQ	4	VAL
6	IQ	9	VAL
6	IQ	20	SER
6	IQ	23	ASP
6	IQ	26	SER
6	IQ	27	ILE
6	IQ	38	LEU
6	IQ	44	LEU
6	IQ	49	GLU
6	IQ	90	MET
6	IQ	92	LEU
6	IQ	97	LEU
6	IQ	98	VAL
6	IQ	105	LEU
6	IQ	115	GLU
6	IQ	125	SER
6	IQ	136	ASP
7	JQ	23	ASP
7	JQ	31	ILE
7	JQ	56	VAL
7	JQ	89	ILE
7	JQ	94	SER
7	JQ	97	LEU
7	JQ	98	LEU
7	JQ	105	LEU
7	JQ	124	THR
7	JQ	127	SER
7	JQ	148	GLU
7	JQ	152	SER
7	JQ	157	ASP
7	JQ	158	CYS
6	KQ	1	MET
6	KQ	3	SER
6	KQ	4	VAL
6	KQ	9	VAL
6	KQ	20	SER
6	KQ	23	ASP
6	KQ	26	SER
6	KQ	27	ILE

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Mol	Chain	Res	Type
6	KQ	38	LEU
6	KQ	44	LEU
6	KQ	49	GLU
6	KQ	90	MET
6	KQ	92	LEU
6	KQ	97	LEU
6	KQ	98	VAL
6	KQ	105	LEU
6	KQ	114	ARG
6	KQ	115	GLU
6	KQ	125	SER
6	KQ	136	ASP
7	LQ	23	ASP
7	LQ	31	ILE
7	LQ	56	VAL
7	LQ	60	ILE
7	LQ	89	ILE
7	LQ	94	SER
7	LQ	97	LEU
7	LQ	98	LEU
7	LQ	105	LEU
7	LQ	124	THR
7	LQ	127	SER
7	LQ	148	GLU
7	LQ	152	SER
7	LQ	157	ASP
7	LQ	158	CYS
14	MQ	126	SER
14	MQ	240	SER
8	eR	58	SER
8	eR	77	PHE
8	eR	84	LYS
8	eR	109	ILE
8	eR	125	ARG
8	eR	128	ARG
6	MR	38	LEU
6	MR	39	GLU
6	MR	43	LYS
6	MR	44	LEU
6	MR	77	GLU
6	MR	86	VAL
6	MR	97	LEU

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Mol	Chain	Res	Type
6	MR	105	LEU
6	MR	118	ARG
7	NR	61	CYS
7	NR	79	MET
7	NR	83	LEU
7	NR	93	VAL
7	NR	134	MET
7	NR	135	LYS
6	OR	38	LEU
6	OR	77	GLU
6	OR	116	VAL
6	OR	139	CYS
6	OR	160	ILE
6	OR	163	LEU
7	PR	82	CYS
7	PR	105	LEU
7	PR	107	ASP
7	PR	108	ARG
7	PR	161	LEU
6	QR	144	MET
7	RR	25	GLN
7	RR	160	SER
6	SR	31	ILE
6	SR	90	MET
6	SR	139	CYS
7	TR	108	ARG
7	TR	109	CYS
6	UR	53	LYS
6	UR	54	GLU
6	UR	114	ARG
6	UR	115	GLU
6	UR	138	LEU
6	UR	150	VAL
7	VR	28	LYS
7	VR	29	SER
7	VR	31	ILE
7	VR	41	VAL
7	VR	84	ARG
7	VR	137	GLN
7	VR	161	LEU
6	WR	9	VAL
6	WR	43	LYS

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Mol	Chain	Res	Type
7	XR	73	CYS
7	XR	75	THR
7	XR	76	ASN
7	XR	93	VAL
7	XR	108	ARG
7	XR	132	SER
7	XR	171	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1583) such sidechains are listed below:

Mol	Chain	Res	Type
1	X1	71	ASN
1	X1	96	GLN
1	X1	240	ASN
1	X1	243	GLN
1	X1	288	ASN
1	X1	332	ASN
2	A1	47	ASN
2	A1	88	GLN
2	A1	201	GLN
2	A1	224	GLN
2	A1	261	HIS
2	A1	289	ASN
3	B1	13	GLN
3	B1	14	ASN
3	B1	15	GLN
3	B1	23	ASN
3	B1	28	GLN
3	B1	72	GLN
3	B1	169	GLN
3	B1	211	GLN
3	B1	226	GLN
4	C1	148	ASN
5	D1	23	GLN
5	D1	63	GLN
5	D1	143	ASN
4	E1	25	GLN
4	E1	140	HIS
4	E1	145	GLN
5	F1	21	ASN
5	F1	23	GLN
5	F1	47	ASN

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Mol	Chain	Res	Type
5	F1	63	GLN
5	F1	68	GLN
5	F1	143	ASN
4	G1	14	ASN
4	G1	15	GLN
4	G1	25	GLN
4	G1	148	ASN
5	H1	23	GLN
5	H1	35	ASN
5	H1	68	GLN
5	H1	143	ASN
4	I1	148	ASN
5	J1	23	GLN
5	J1	63	GLN
5	J1	111	ASN
5	J1	143	ASN
4	K1	148	ASN
5	L1	23	GLN
5	L1	36	GLN
5	L1	42	ASN
5	L1	63	GLN
5	L1	68	GLN
5	L1	143	ASN
4	M1	14	ASN
4	M1	15	GLN
4	M1	148	ASN
5	N1	21	ASN
5	N1	23	GLN
5	N1	47	ASN
5	N1	63	GLN
5	N1	143	ASN
6	O1	76	GLN
6	O1	88	HIS
7	P1	63	ASN
6	Q1	76	GLN
6	Q1	88	HIS
7	R1	42	ASN
7	R1	63	ASN
6	S1	76	GLN
6	S1	88	HIS
6	S1	147	GLN
7	T1	63	ASN

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Mol	Chain	Res	Type
6	U1	76	GLN
6	U1	88	HIS
6	U1	147	GLN
7	V1	63	ASN
6	W1	21	ASN
6	W1	76	GLN
6	W1	88	HIS
6	W1	94	ASN
7	Y1	63	ASN
6	Z1	76	GLN
6	Z1	88	HIS
6	Z1	94	ASN
7	a1	63	ASN
6	b1	21	ASN
6	b1	28	GLN
6	b1	76	GLN
6	b1	88	HIS
6	b1	147	GLN
7	c1	63	ASN
6	d1	76	GLN
6	d1	88	HIS
7	e1	42	ASN
7	e1	63	ASN
6	f1	76	GLN
6	f1	88	HIS
7	g1	63	ASN
6	h1	76	GLN
6	h1	88	HIS
7	i1	63	ASN
6	j1	76	GLN
6	j1	88	HIS
6	j1	147	GLN
7	k1	63	ASN
6	l1	21	ASN
6	l1	76	GLN
6	l1	88	HIS
6	l1	147	GLN
7	m1	42	ASN
7	m1	63	ASN
8	e2	153	GLN
8	e2	163	HIS
7	N2	137	GLN

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Mol	Chain	Res	Type
7	N2	144	ASN
7	P2	144	ASN
7	R2	144	ASN
7	T2	144	ASN
7	V2	47	ASN
7	V2	144	ASN
6	W2	32	GLN
6	W2	47	ASN
7	X2	137	GLN
7	X2	144	ASN
6	A3	68	ASN
6	A3	88	HIS
7	B3	11	ASN
7	B3	42	ASN
6	C3	68	ASN
6	C3	88	HIS
6	C3	94	ASN
7	D3	11	ASN
7	D3	25	GLN
7	D3	42	ASN
6	E3	68	ASN
6	E3	88	HIS
7	F3	11	ASN
7	F3	35	ASN
7	F3	42	ASN
6	G3	28	GLN
6	G3	68	ASN
6	G3	88	HIS
7	H3	11	ASN
7	H3	25	GLN
7	H3	35	ASN
7	H3	42	ASN
6	I3	28	GLN
6	I3	68	ASN
6	I3	88	HIS
6	I3	147	GLN
7	J3	11	ASN
7	J3	42	ASN
6	K3	28	GLN
6	K3	68	ASN
6	K3	88	HIS
7	L3	11	ASN

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Mol	Chain	Res	Type
7	L3	35	ASN
7	L3	42	ASN
7	N3	137	GLN
9	O3	321	ASN
9	O3	352	GLN
10	d4	58	GLN
10	d4	72	GLN
10	d4	311	GLN
6	B4	32	GLN
6	B4	48	HIS
7	C4	35	ASN
6	D4	147	GLN
7	E4	35	ASN
7	E4	76	ASN
6	F4	48	HIS
6	F4	147	GLN
7	G4	35	ASN
7	G4	76	ASN
6	H4	48	HIS
6	H4	147	GLN
7	I4	35	ASN
7	I4	76	ASN
6	J4	48	HIS
6	J4	94	ASN
6	J4	147	GLN
7	K4	35	ASN
7	K4	76	ASN
6	L4	32	GLN
6	L4	147	GLN
7	M4	35	ASN
7	M4	76	ASN
7	B5	35	ASN
7	B5	137	GLN
7	F5	35	ASN
7	F5	137	GLN
7	G5	35	ASN
7	G5	137	GLN
7	H5	35	ASN
7	H5	137	GLN
7	I5	11	ASN
6	J5	28	GLN
6	J5	32	GLN

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Mol	Chain	Res	Type
6	J5	68	ASN
6	J5	88	HIS
6	J5	121	ASN
6	J5	147	GLN
7	K5	76	ASN
7	L5	35	ASN
7	L5	76	ASN
7	L5	137	GLN
7	A5	76	ASN
7	C5	111	ASN
12	E5	53	GLN
12	E5	162	ASN
12	E5	182	ASN
13	k6	32	ASN
13	k6	104	GLN
13	k6	124	ASN
13	k6	204	GLN
13	k6	236	GLN
13	k6	275	GLN
1	X7	47	ASN
1	X7	63	ASN
1	X7	88	GLN
1	X7	306	GLN
2	A7	47	ASN
2	A7	60	ASN
2	A7	88	GLN
2	A7	141	ASN
2	A7	154	HIS
2	A7	261	HIS
2	A7	274	ASN
2	A7	289	ASN
3	B7	59	GLN
3	B7	72	GLN
3	B7	121	ASN
3	B7	146	ASN
3	B7	148	GLN
3	B7	209	GLN
4	C7	14	ASN
4	C7	25	GLN
4	C7	57	GLN
4	C7	148	ASN
5	D7	35	ASN

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Mol	Chain	Res	Type
4	E7	25	GLN
4	E7	148	ASN
5	F7	35	ASN
5	F7	63	GLN
5	F7	65	GLN
4	G7	148	ASN
5	H7	35	ASN
4	I7	68	GLN
4	I7	134	GLN
5	J7	11	GLN
5	J7	35	ASN
4	K7	57	GLN
4	K7	148	ASN
5	L7	35	ASN
5	L7	63	GLN
5	L7	65	GLN
5	L7	111	ASN
4	M7	145	GLN
4	M7	148	ASN
5	N7	35	ASN
5	N7	111	ASN
6	O7	28	GLN
6	O7	32	GLN
6	O7	147	GLN
7	P7	25	GLN
7	P7	47	ASN
6	Q7	76	GLN
6	Q7	94	ASN
6	Q7	147	GLN
7	R7	25	GLN
7	R7	47	ASN
6	S7	28	GLN
6	S7	32	GLN
6	S7	94	ASN
7	T7	25	GLN
7	T7	47	ASN
6	U7	28	GLN
6	U7	32	GLN
6	U7	147	GLN
7	V7	25	GLN
7	V7	47	ASN
6	W7	28	GLN

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Mol	Chain	Res	Type
6	W7	32	GLN
6	W7	76	GLN
7	Y7	25	GLN
7	Y7	47	ASN
6	Z7	28	GLN
6	Z7	32	GLN
7	a7	25	GLN
7	a7	47	ASN
6	b7	147	GLN
7	c7	25	GLN
7	c7	42	ASN
7	c7	47	ASN
6	d7	32	GLN
6	d7	94	ASN
7	e7	25	GLN
7	e7	42	ASN
7	e7	47	ASN
6	f7	32	GLN
7	g7	25	GLN
7	g7	47	ASN
6	h7	28	GLN
6	h7	32	GLN
7	i7	25	GLN
7	i7	47	ASN
7	i7	125	ASN
6	j7	32	GLN
7	k7	25	GLN
7	k7	47	ASN
6	l7	28	GLN
6	l7	32	GLN
7	m7	42	ASN
7	m7	47	ASN
7	m7	76	ASN
7	B8	35	ASN
7	B8	137	GLN
7	F8	35	ASN
7	F8	137	GLN
7	G8	35	ASN
7	G8	137	GLN
7	H8	35	ASN
7	H8	137	GLN
7	I8	11	ASN

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Mol	Chain	Res	Type
6	J8	28	GLN
6	J8	32	GLN
6	J8	68	ASN
6	J8	88	HIS
6	J8	121	ASN
6	J8	147	GLN
7	K8	76	ASN
7	L8	35	ASN
7	L8	76	ASN
7	L8	137	GLN
7	A8	76	ASN
7	C8	111	ASN
11	D8	196	ASN
12	E8	53	GLN
12	E8	162	ASN
12	E8	167	ASN
12	E8	182	ASN
1	X9	47	ASN
1	X9	63	ASN
1	X9	88	GLN
1	X9	306	GLN
2	A9	60	ASN
2	A9	88	GLN
2	A9	141	ASN
2	A9	154	HIS
2	A9	261	HIS
2	A9	274	ASN
2	A9	289	ASN
3	B9	59	GLN
3	B9	72	GLN
3	B9	121	ASN
3	B9	146	ASN
3	B9	148	GLN
3	B9	169	GLN
4	C9	14	ASN
4	C9	25	GLN
4	C9	57	GLN
4	C9	148	ASN
5	D9	35	ASN
4	E9	25	GLN
4	E9	148	ASN
5	F9	35	ASN

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Mol	Chain	Res	Type
4	G9	145	GLN
4	G9	148	ASN
5	H9	35	ASN
4	I9	68	GLN
4	I9	134	GLN
5	J9	11	GLN
5	J9	35	ASN
4	K9	14	ASN
4	K9	49	GLN
4	K9	145	GLN
4	K9	148	ASN
5	L9	35	ASN
4	M9	148	ASN
5	N9	35	ASN
5	N9	111	ASN
6	O9	28	GLN
6	O9	32	GLN
6	O9	147	GLN
7	P9	25	GLN
7	P9	42	ASN
7	P9	47	ASN
6	Q9	76	GLN
6	Q9	147	GLN
7	R9	25	GLN
7	R9	47	ASN
6	S9	28	GLN
6	S9	32	GLN
6	S9	94	ASN
7	T9	25	GLN
7	T9	47	ASN
6	U9	28	GLN
6	U9	32	GLN
6	U9	68	ASN
6	U9	147	GLN
7	V9	25	GLN
7	V9	42	ASN
7	V9	47	ASN
6	W9	28	GLN
6	W9	32	GLN
6	W9	76	GLN
7	Y9	25	GLN
7	Y9	42	ASN

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Mol	Chain	Res	Type
7	Y9	47	ASN
6	Z9	28	GLN
6	Z9	32	GLN
7	a9	25	GLN
7	a9	47	ASN
7	a9	137	GLN
6	b9	32	GLN
6	b9	147	GLN
7	c9	25	GLN
7	c9	47	ASN
6	d9	32	GLN
6	d9	94	ASN
7	e9	25	GLN
7	e9	42	ASN
7	e9	47	ASN
6	f9	32	GLN
7	g9	25	GLN
7	g9	47	ASN
6	h9	28	GLN
6	h9	32	GLN
6	h9	147	GLN
7	i9	25	GLN
7	i9	42	ASN
7	i9	47	ASN
7	i9	125	ASN
7	k9	25	GLN
7	k9	42	ASN
7	k9	47	ASN
6	l9	28	GLN
6	l9	32	GLN
7	m9	47	ASN
6	AA	28	GLN
6	AA	76	GLN
6	AA	80	ASN
6	CA	76	GLN
6	CA	80	ASN
6	EA	76	GLN
6	EA	80	ASN
7	FA	42	ASN
6	GA	76	GLN
6	GA	80	ASN
7	HA	111	ASN

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Mol	Chain	Res	Type
6	IA	32	GLN
6	IA	76	GLN
6	IA	80	ASN
6	IA	147	GLN
6	KA	76	GLN
6	KA	80	ASN
14	MA	156	ASN
14	MA	196	ASN
14	MA	238	GLN
14	MA	279	ASN
14	MA	331	ASN
15	bB	60	HIS
15	bB	84	GLN
15	bB	146	HIS
15	bB	155	HIS
15	bB	185	ASN
15	bB	208	ASN
15	bB	270	ASN
15	bB	360	ASN
15	bB	390	GLN
16	AB	106	GLN
16	AB	119	HIS
16	AB	184	GLN
16	AB	236	ASN
16	AB	244	HIS
16	AB	247	HIS
17	BB	61	GLN
17	BB	77	ASN
17	BB	136	GLN
17	BB	161	HIS
17	BB	165	GLN
17	BB	235	GLN
17	BB	274	HIS
6	CB	48	HIS
6	CB	75	ASN
7	DB	137	GLN
6	EB	75	ASN
6	EB	94	ASN
7	FB	125	ASN
7	FB	137	GLN
6	GB	32	GLN
6	GB	75	ASN

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Mol	Chain	Res	Type
7	HB	35	ASN
7	HB	137	GLN
6	IB	75	ASN
7	JB	47	ASN
7	JB	137	GLN
6	KB	21	ASN
6	KB	28	GLN
6	KB	32	GLN
6	KB	75	ASN
6	KB	94	ASN
7	LB	137	GLN
6	MB	28	GLN
6	MB	32	GLN
6	MB	75	ASN
6	MB	80	ASN
7	NB	25	GLN
7	NB	137	GLN
6	OB	28	GLN
6	OB	32	GLN
6	OB	75	ASN
7	PB	137	GLN
6	QB	21	ASN
6	QB	28	GLN
6	QB	32	GLN
6	QB	75	ASN
6	QB	94	ASN
7	RB	125	ASN
7	RB	137	GLN
6	SB	75	ASN
6	SB	94	ASN
7	TB	25	GLN
7	TB	137	GLN
6	UB	75	ASN
7	VB	137	GLN
6	WB	32	GLN
6	WB	75	ASN
6	WB	94	ASN
6	WB	147	GLN
7	XB	25	GLN
7	XB	137	GLN
6	YB	75	ASN
7	ZB	111	ASN

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Mol	Chain	Res	Type
7	ZB	137	GLN
6	aB	75	ASN
7	cB	137	GLN
6	dB	75	ASN
6	dB	94	ASN
6	dB	147	GLN
7	eB	137	GLN
6	fB	32	GLN
6	fB	75	ASN
7	gB	35	ASN
7	gB	76	ASN
7	gB	137	GLN
6	hB	21	ASN
6	hB	28	GLN
6	hB	32	GLN
6	hB	75	ASN
6	hB	94	ASN
7	iB	137	GLN
6	jB	75	ASN
7	kB	137	GLN
6	lB	75	ASN
7	mB	137	GLN
6	AC	30	ASN
6	AC	121	ASN
7	BC	137	GLN
6	CC	30	ASN
6	CC	147	GLN
7	DC	137	GLN
6	EC	21	ASN
6	EC	30	ASN
6	EC	76	GLN
7	FC	137	GLN
6	GC	21	ASN
6	GC	30	ASN
6	GC	121	ASN
7	HC	76	ASN
7	HC	137	GLN
6	IC	30	ASN
6	IC	121	ASN
7	JC	137	GLN
6	KC	30	ASN
6	KC	147	GLN

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Mol	Chain	Res	Type
7	LC	137	GLN
18	MC	152	HIS
10	dD	58	GLN
10	dD	72	GLN
10	dD	143	HIS
10	dD	164	ASN
10	dD	193	GLN
10	dD	311	GLN
10	dD	331	GLN
6	BD	32	GLN
6	BD	48	HIS
7	CD	35	ASN
6	DD	147	GLN
7	ED	35	ASN
7	ED	76	ASN
6	FD	48	HIS
6	FD	147	GLN
7	GD	35	ASN
7	GD	76	ASN
6	HD	48	HIS
6	HD	147	GLN
7	ID	35	ASN
7	ID	76	ASN
6	JD	48	HIS
6	JD	94	ASN
6	JD	147	GLN
7	KD	35	ASN
7	KD	76	ASN
6	LD	48	HIS
6	LD	147	GLN
7	MD	35	ASN
7	MD	76	ASN
6	AE	30	ASN
7	BE	137	GLN
6	CE	30	ASN
6	CE	147	GLN
7	DE	137	GLN
6	EE	21	ASN
6	EE	30	ASN
6	EE	76	GLN
7	FE	137	GLN
6	GE	30	ASN

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Mol	Chain	Res	Type
6	GE	121	ASN
6	GE	161	ASN
7	HE	76	ASN
7	HE	137	GLN
6	IE	30	ASN
6	IE	121	ASN
7	JE	137	GLN
6	KE	30	ASN
6	KE	147	GLN
7	LE	137	GLN
18	ME	301	ASN
1	XF	63	ASN
1	XF	88	GLN
1	XF	241	ASN
1	XF	306	GLN
1	XF	333	ASN
1	XF	348	GLN
2	AF	60	ASN
2	AF	66	ASN
2	AF	88	GLN
2	AF	154	HIS
2	AF	261	HIS
3	BF	72	GLN
3	BF	146	ASN
3	BF	148	GLN
3	BF	178	ASN
3	BF	209	GLN
3	BF	226	GLN
4	CF	145	GLN
4	CF	148	ASN
5	DF	21	ASN
5	DF	35	ASN
5	DF	36	GLN
5	DF	118	GLN
5	DF	132	GLN
4	EF	15	GLN
4	EF	25	GLN
4	EF	28	ASN
4	EF	49	GLN
4	EF	145	GLN
4	EF	148	ASN
5	FF	35	ASN

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Mol	Chain	Res	Type
5	FF	36	GLN
5	FF	111	ASN
5	FF	132	GLN
4	GF	15	GLN
4	GF	145	GLN
4	GF	148	ASN
5	HF	11	GLN
5	HF	35	ASN
5	HF	36	GLN
5	HF	118	GLN
5	HF	132	GLN
4	IF	14	ASN
4	IF	28	ASN
4	IF	145	GLN
4	IF	148	ASN
5	JF	35	ASN
5	JF	36	GLN
5	JF	111	ASN
5	JF	118	GLN
5	JF	132	GLN
4	KF	49	GLN
4	KF	145	GLN
4	KF	148	ASN
5	LF	35	ASN
5	LF	36	GLN
5	LF	118	GLN
5	LF	132	GLN
4	MF	15	GLN
4	MF	145	GLN
4	MF	148	ASN
5	NF	21	ASN
5	NF	35	ASN
5	NF	118	GLN
5	NF	132	GLN
6	OF	28	GLN
6	OF	32	GLN
6	OF	88	HIS
6	OF	94	ASN
6	OF	147	GLN
7	PF	144	ASN
6	QF	32	GLN
6	QF	88	HIS

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Mol	Chain	Res	Type
6	QF	147	GLN
7	RF	144	ASN
6	SF	32	GLN
6	SF	88	HIS
7	TF	144	ASN
6	UF	32	GLN
6	UF	88	HIS
6	UF	94	ASN
7	VF	144	ASN
6	WF	28	GLN
6	WF	32	GLN
6	WF	88	HIS
6	WF	94	ASN
6	WF	147	GLN
7	YF	76	ASN
7	YF	144	ASN
6	ZF	28	GLN
6	ZF	32	GLN
6	ZF	88	HIS
6	ZF	94	ASN
7	aF	76	ASN
7	aF	144	ASN
6	bF	32	GLN
6	bF	76	GLN
6	bF	80	ASN
6	bF	88	HIS
6	bF	94	ASN
7	cF	144	ASN
6	dF	32	GLN
6	dF	88	HIS
7	eF	144	ASN
6	fF	32	GLN
6	fF	88	HIS
7	gF	144	ASN
6	hF	32	GLN
6	hF	88	HIS
6	hF	94	ASN
6	hF	147	GLN
7	iF	76	ASN
7	iF	144	ASN
6	jF	28	GLN
6	jF	32	GLN

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Mol	Chain	Res	Type
6	jF	88	HIS
6	jF	94	ASN
6	jF	147	GLN
7	kF	144	ASN
6	lF	32	GLN
6	lF	88	HIS
7	mF	76	ASN
7	mF	144	ASN
6	AG	28	GLN
7	BG	11	ASN
7	BG	25	GLN
7	BG	35	ASN
7	BG	111	ASN
7	BG	137	GLN
7	BG	144	ASN
6	CG	28	GLN
7	DG	11	ASN
7	DG	25	GLN
7	DG	35	ASN
7	DG	137	GLN
7	DG	144	ASN
6	EG	28	GLN
6	EG	80	ASN
7	FG	11	ASN
7	FG	25	GLN
7	FG	35	ASN
7	FG	47	ASN
7	FG	111	ASN
7	FG	137	GLN
7	FG	144	ASN
6	GG	28	GLN
7	HG	11	ASN
7	HG	25	GLN
7	HG	35	ASN
7	HG	47	ASN
7	HG	137	GLN
7	HG	144	ASN
6	IG	28	GLN
6	IG	80	ASN
7	JG	11	ASN
7	JG	25	GLN
7	JG	35	ASN

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Mol	Chain	Res	Type
7	JG	111	ASN
7	JG	137	GLN
7	JG	144	ASN
6	KG	28	GLN
6	KG	121	ASN
7	LG	11	ASN
7	LG	25	GLN
7	LG	35	ASN
7	LG	111	ASN
7	LG	137	GLN
7	LG	144	ASN
14	MG	196	ASN
14	MG	203	GLN
14	MG	217	GLN
14	MG	228	GLN
14	MG	302	ASN
14	MG	307	ASN
13	kH	32	ASN
13	kH	104	GLN
13	kH	124	ASN
13	kH	204	GLN
13	kH	236	GLN
13	kH	275	GLN
1	XI	63	ASN
1	XI	88	GLN
1	XI	241	ASN
1	XI	306	GLN
1	XI	333	ASN
1	XI	348	GLN
2	AI	60	ASN
2	AI	66	ASN
2	AI	88	GLN
2	AI	128	GLN
2	AI	154	HIS
2	AI	261	HIS
3	BI	72	GLN
3	BI	146	ASN
3	BI	148	GLN
3	BI	178	ASN
3	BI	209	GLN
3	BI	223	ASN
3	BI	226	GLN

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Mol	Chain	Res	Type
4	CI	49	GLN
4	CI	145	GLN
4	CI	148	ASN
5	DI	21	ASN
5	DI	35	ASN
5	DI	36	GLN
5	DI	118	GLN
5	DI	132	GLN
4	EI	14	ASN
4	EI	15	GLN
4	EI	28	ASN
4	EI	145	GLN
4	EI	148	ASN
5	FI	35	ASN
5	FI	111	ASN
5	FI	132	GLN
4	GI	14	ASN
4	GI	15	GLN
4	GI	145	GLN
4	GI	148	ASN
5	HI	11	GLN
5	HI	35	ASN
5	HI	36	GLN
5	HI	118	GLN
5	HI	132	GLN
4	II	14	ASN
4	II	28	ASN
4	II	145	GLN
4	II	148	ASN
5	JI	35	ASN
5	JI	36	GLN
5	JI	111	ASN
5	JI	118	GLN
5	JI	132	GLN
4	KI	15	GLN
4	KI	49	GLN
4	KI	145	GLN
4	KI	148	ASN
5	LI	35	ASN
5	LI	36	GLN
5	LI	118	GLN
5	LI	132	GLN

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Mol	Chain	Res	Type
4	MI	15	GLN
4	MI	145	GLN
4	MI	148	ASN
5	NI	21	ASN
5	NI	35	ASN
5	NI	36	GLN
5	NI	118	GLN
5	NI	132	GLN
6	OI	28	GLN
6	OI	32	GLN
6	OI	88	HIS
6	OI	94	ASN
6	OI	147	GLN
7	PI	144	ASN
6	QI	32	GLN
6	QI	88	HIS
6	QI	147	GLN
7	RI	144	ASN
6	SI	32	GLN
6	SI	88	HIS
7	TI	144	ASN
6	UI	32	GLN
6	UI	88	HIS
6	UI	94	ASN
7	VI	144	ASN
6	WI	28	GLN
6	WI	32	GLN
6	WI	88	HIS
6	WI	94	ASN
6	WI	147	GLN
7	YI	76	ASN
7	YI	144	ASN
6	ZI	28	GLN
6	ZI	32	GLN
6	ZI	88	HIS
7	aI	144	ASN
6	bI	32	GLN
6	bI	88	HIS
6	bI	94	ASN
7	cI	144	ASN
6	dI	32	GLN
6	dI	88	HIS

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Mol	Chain	Res	Type
7	eI	144	ASN
6	fI	32	GLN
6	fI	88	HIS
7	gI	144	ASN
6	hI	32	GLN
6	hI	88	HIS
6	hI	94	ASN
6	hI	147	GLN
7	iI	76	ASN
7	iI	144	ASN
6	jI	32	GLN
6	jI	88	HIS
6	jI	94	ASN
6	jI	147	GLN
7	kI	144	ASN
6	lI	32	GLN
6	lI	88	HIS
7	mI	76	ASN
7	mI	144	ASN
6	AJ	80	ASN
6	AJ	161	ASN
7	BJ	47	ASN
6	CJ	80	ASN
6	CJ	94	ASN
6	CJ	161	ASN
7	DJ	47	ASN
6	EJ	80	ASN
7	FJ	47	ASN
7	FJ	125	ASN
6	GJ	76	GLN
6	GJ	94	ASN
7	HJ	47	ASN
6	IJ	75	ASN
6	IJ	147	GLN
6	KJ	47	ASN
6	KJ	80	ASN
6	KJ	161	ASN
6	MJ	76	GLN
6	MJ	147	GLN
6	OJ	80	ASN
6	OJ	94	ASN
7	PJ	47	ASN

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Mol	Chain	Res	Type
6	QJ	47	ASN
6	QJ	80	ASN
6	QJ	147	GLN
6	SJ	80	ASN
6	SJ	161	ASN
6	UJ	68	ASN
6	UJ	80	ASN
6	UJ	147	GLN
6	WJ	21	ASN
6	WJ	68	ASN
6	WJ	80	ASN
7	XJ	47	ASN
6	YJ	80	ASN
7	ZJ	47	ASN
7	ZJ	111	ASN
6	aJ	80	ASN
6	aJ	161	ASN
7	bJ	47	ASN
6	cJ	80	ASN
7	dJ	47	ASN
6	eJ	80	ASN
6	eJ	147	GLN
7	fJ	47	ASN
6	gJ	80	ASN
7	hJ	47	ASN
6	iJ	80	ASN
6	iJ	147	GLN
6	kJ	80	ASN
6	kJ	161	ASN
7	lJ	42	ASN
7	lJ	76	ASN
6	mJ	80	ASN
6	mJ	161	ASN
7	nJ	42	ASN
7	nJ	47	ASN
6	oJ	76	GLN
6	qJ	21	ASN
6	qJ	32	GLN
6	qJ	80	ASN
6	qJ	94	ASN
6	qJ	147	GLN
6	sJ	80	ASN

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Mol	Chain	Res	Type
7	tJ	47	ASN
7	tJ	76	ASN
6	uJ	80	ASN
6	uJ	161	ASN
7	vJ	47	ASN
16	wJ	58	ASN
16	wJ	71	GLN
16	wJ	255	GLN
16	xJ	41	ASN
16	xJ	58	ASN
16	xJ	71	GLN
16	xJ	74	GLN
17	yJ	61	GLN
17	yJ	79	ASN
17	yJ	110	GLN
17	yJ	235	GLN
17	yJ	274	HIS
19	zJ	256	HIS
19	zJ	343	GLN
1	XK	71	ASN
1	XK	96	GLN
1	XK	240	ASN
1	XK	243	GLN
1	XK	288	ASN
1	XK	332	ASN
2	AK	47	ASN
2	AK	88	GLN
2	AK	201	GLN
2	AK	224	GLN
2	AK	261	HIS
2	AK	289	ASN
3	BK	23	ASN
3	BK	28	GLN
3	BK	72	GLN
3	BK	97	ASN
3	BK	169	GLN
3	BK	223	ASN
3	BK	226	GLN
4	CK	25	GLN
4	CK	148	ASN
5	DK	23	GLN
5	DK	63	GLN

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Mol	Chain	Res	Type
5	DK	143	ASN
4	EK	21	ASN
4	EK	25	GLN
4	EK	140	HIS
4	EK	145	GLN
5	FK	21	ASN
5	FK	23	GLN
5	FK	47	ASN
5	FK	63	GLN
5	FK	68	GLN
5	FK	143	ASN
4	GK	14	ASN
4	GK	15	GLN
4	GK	25	GLN
4	GK	148	ASN
5	HK	23	GLN
5	HK	35	ASN
5	HK	68	GLN
5	HK	143	ASN
4	IK	49	GLN
4	IK	68	GLN
4	IK	148	ASN
5	JK	23	GLN
5	JK	47	ASN
5	JK	63	GLN
5	JK	111	ASN
5	JK	143	ASN
4	KK	32	GLN
4	KK	148	ASN
5	LK	23	GLN
5	LK	36	GLN
5	LK	65	GLN
5	LK	68	GLN
4	MK	14	ASN
4	MK	15	GLN
4	MK	25	GLN
4	MK	148	ASN
5	NK	21	ASN
5	NK	23	GLN
5	NK	47	ASN
5	NK	63	GLN
5	NK	68	GLN

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Mol	Chain	Res	Type
5	NK	143	ASN
6	OK	76	GLN
6	OK	88	HIS
7	PK	63	ASN
6	QK	76	GLN
6	QK	88	HIS
7	RK	63	ASN
6	SK	76	GLN
6	SK	88	HIS
6	SK	147	GLN
7	TK	63	ASN
6	UK	76	GLN
6	UK	88	HIS
6	UK	147	GLN
7	VK	63	ASN
6	WK	21	ASN
6	WK	76	GLN
6	WK	88	HIS
6	WK	94	ASN
7	YK	63	ASN
6	ZK	76	GLN
6	ZK	88	HIS
7	aK	63	ASN
6	bK	21	ASN
6	bK	28	GLN
6	bK	76	GLN
6	bK	88	HIS
6	bK	147	GLN
7	cK	63	ASN
6	dK	76	GLN
6	dK	88	HIS
7	eK	42	ASN
7	eK	63	ASN
6	fK	76	GLN
6	fK	88	HIS
7	gK	63	ASN
6	hK	76	GLN
6	hK	88	HIS
7	iK	63	ASN
6	jK	76	GLN
6	jK	88	HIS
6	jK	147	GLN

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Mol	Chain	Res	Type
7	kK	63	ASN
6	lK	76	GLN
6	lK	88	HIS
6	lK	147	GLN
7	mK	63	ASN
6	AL	28	GLN
6	AL	80	ASN
6	AL	161	ASN
7	BL	47	ASN
6	CL	80	ASN
6	CL	94	ASN
6	CL	161	ASN
7	DL	47	ASN
6	EL	80	ASN
7	FL	47	ASN
7	FL	125	ASN
6	GL	76	GLN
6	GL	94	ASN
7	HL	47	ASN
6	IL	75	ASN
6	IL	147	GLN
7	JL	35	ASN
6	KL	47	ASN
6	KL	80	ASN
7	LL	47	ASN
6	ML	76	GLN
6	ML	147	GLN
6	OL	80	ASN
6	OL	94	ASN
6	OL	147	GLN
7	PL	47	ASN
6	QL	47	ASN
6	QL	80	ASN
6	QL	147	GLN
7	RL	47	ASN
6	SL	80	ASN
6	SL	147	GLN
6	SL	161	ASN
7	TL	25	GLN
6	UL	80	ASN
6	UL	147	GLN
7	VL	47	ASN

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Mol	Chain	Res	Type
6	WL	21	ASN
6	WL	68	ASN
6	WL	80	ASN
6	YL	80	ASN
7	ZL	47	ASN
6	aL	80	ASN
6	aL	161	ASN
6	cL	80	ASN
6	eL	80	ASN
6	eL	147	GLN
7	fL	47	ASN
6	gL	80	ASN
6	iL	80	ASN
6	iL	147	GLN
7	jL	47	ASN
6	kL	80	ASN
6	kL	161	ASN
7	lL	42	ASN
7	lL	47	ASN
7	lL	76	ASN
6	mL	80	ASN
6	mL	161	ASN
7	nL	42	ASN
6	oL	80	ASN
7	pL	47	ASN
7	pL	111	ASN
6	qL	21	ASN
6	qL	32	GLN
6	qL	80	ASN
6	qL	94	ASN
7	rL	47	ASN
6	sL	80	ASN
7	tL	47	ASN
7	tL	76	ASN
6	uL	80	ASN
6	uL	161	ASN
7	vL	47	ASN
16	wL	58	ASN
16	wL	71	GLN
16	wL	255	GLN
16	xL	41	ASN
16	xL	58	ASN

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Mol	Chain	Res	Type
16	xL	71	GLN
17	yL	61	GLN
17	yL	79	ASN
17	yL	110	GLN
17	yL	188	GLN
17	yL	232	GLN
17	yL	235	GLN
17	yL	274	HIS
19	zL	256	HIS
19	zL	273	GLN
19	zL	276	ASN
19	zL	286	GLN
19	zL	343	GLN
19	zL	351	GLN
15	bM	60	HIS
15	bM	84	GLN
15	bM	146	HIS
15	bM	155	HIS
15	bM	185	ASN
15	bM	270	ASN
15	bM	360	ASN
15	bM	390	GLN
16	AM	106	GLN
16	AM	119	HIS
16	AM	184	GLN
16	AM	236	ASN
16	AM	244	HIS
16	AM	247	HIS
17	BM	61	GLN
17	BM	77	ASN
17	BM	136	GLN
17	BM	161	HIS
17	BM	165	GLN
17	BM	235	GLN
17	BM	274	HIS
6	CM	28	GLN
6	CM	32	GLN
6	CM	48	HIS
6	CM	75	ASN
7	DM	137	GLN
6	EM	75	ASN
6	EM	147	GLN

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Mol	Chain	Res	Type
7	FM	125	ASN
7	FM	137	GLN
6	GM	32	GLN
6	GM	75	ASN
6	GM	147	GLN
7	HM	125	ASN
7	HM	137	GLN
6	IM	32	GLN
6	IM	75	ASN
7	JM	47	ASN
7	JM	137	GLN
6	KM	21	ASN
6	KM	28	GLN
6	KM	32	GLN
6	KM	75	ASN
6	KM	94	ASN
7	LM	137	GLN
6	MM	28	GLN
6	MM	32	GLN
6	MM	75	ASN
7	NM	137	GLN
6	OM	28	GLN
6	OM	32	GLN
6	OM	75	ASN
7	PM	137	GLN
6	QM	21	ASN
6	QM	75	ASN
6	QM	94	ASN
7	RM	125	ASN
7	RM	137	GLN
6	SM	75	ASN
6	SM	94	ASN
7	TM	25	GLN
7	TM	137	GLN
6	UM	75	ASN
7	VM	137	GLN
6	WM	75	ASN
6	WM	94	ASN
6	WM	147	GLN
7	XM	25	GLN
7	XM	137	GLN
6	YM	28	GLN

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Mol	Chain	Res	Type
6	YM	32	GLN
6	YM	75	ASN
6	YM	94	ASN
7	ZM	111	ASN
7	ZM	137	GLN
6	aM	75	ASN
7	cM	137	GLN
6	dM	75	ASN
6	dM	94	ASN
7	eM	137	GLN
6	fM	32	GLN
6	fM	75	ASN
7	gM	35	ASN
7	gM	76	ASN
7	gM	137	GLN
6	hM	21	ASN
6	hM	28	GLN
6	hM	32	GLN
6	hM	75	ASN
6	hM	94	ASN
7	iM	137	GLN
6	jM	75	ASN
7	kM	137	GLN
6	lM	76	GLN
7	mM	137	GLN
6	AN	28	GLN
6	AN	76	GLN
6	AN	80	ASN
6	CN	76	GLN
6	CN	80	ASN
6	EN	76	GLN
6	EN	80	ASN
7	FN	42	ASN
6	GN	76	GLN
6	GN	80	ASN
7	HN	111	ASN
6	IN	32	GLN
6	IN	76	GLN
6	IN	80	ASN
6	IN	147	GLN
6	KN	76	GLN
6	KN	80	ASN

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Mol	Chain	Res	Type
14	MN	156	ASN
14	MN	196	ASN
14	MN	238	GLN
14	MN	242	GLN
14	MN	279	ASN
14	MN	331	ASN
6	AO	68	ASN
6	AO	88	HIS
7	BO	11	ASN
6	CO	68	ASN
6	CO	88	HIS
6	CO	94	ASN
7	DO	11	ASN
7	DO	25	GLN
7	DO	42	ASN
6	EO	68	ASN
6	EO	88	HIS
7	FO	11	ASN
7	FO	35	ASN
7	FO	42	ASN
6	GO	28	GLN
6	GO	68	ASN
6	GO	88	HIS
7	HO	11	ASN
7	HO	25	GLN
7	HO	35	ASN
6	IO	28	GLN
6	IO	68	ASN
6	IO	88	HIS
7	JO	11	ASN
7	JO	42	ASN
6	KO	28	GLN
6	KO	68	ASN
6	KO	88	HIS
7	LO	11	ASN
7	LO	42	ASN
7	MO	137	GLN
7	NO	137	GLN
9	OO	321	ASN
9	OO	352	GLN
20	AP	71	ASN
21	DP	15	GLN

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Mol	Chain	Res	Type
21	DP	22	ASN
21	DP	47	ASN
21	DP	110	ASN
20	CP	71	ASN
21	FP	47	ASN
20	EP	71	ASN
21	BP	47	ASN
21	BP	128	GLN
20	GP	71	ASN
21	HP	47	ASN
21	IP	47	ASN
21	IP	110	ASN
20	JP	41	GLN
20	JP	71	ASN
20	KP	71	ASN
21	LP	47	ASN
21	LP	110	ASN
21	MP	47	ASN
21	MP	110	ASN
21	MP	128	GLN
20	NP	41	GLN
21	OP	47	ASN
20	PP	53	GLN
20	PP	71	ASN
21	QP	47	ASN
21	QP	131	GLN
20	RP	71	ASN
21	SP	47	ASN
20	TP	71	ASN
21	UP	47	ASN
22	VP	143	GLN
23	WP	26	GLN
23	WP	50	ASN
23	WP	107	ASN
23	WP	137	GLN
24	XP	89	ASN
24	XP	109	GLN
24	XP	131	ASN
25	YP	51	ASN
25	YP	221	ASN
25	YP	229	ASN
25	YP	410	GLN

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Mol	Chain	Res	Type
25	YP	415	GLN
25	YP	490	GLN
25	YP	528	GLN
25	YP	541	GLN
25	YP	557	ASN
25	YP	558	ASN
25	YP	655	GLN
25	YP	705	GLN
25	YP	724	GLN
25	YP	755	GLN
25	YP	800	GLN
25	YP	807	ASN
25	YP	808	GLN
25	YP	816	GLN
25	YP	849	ASN
26	ZP	47	GLN
26	ZP	61	ASN
27	aP	54	GLN
27	aP	98	GLN
27	aP	275	ASN
28	bP	135	ASN
28	bP	145	HIS
28	bP	211	ASN
20	cP	56	GLN
20	cP	71	ASN
21	dP	15	GLN
21	dP	22	ASN
21	dP	47	ASN
21	dP	110	ASN
20	eP	71	ASN
21	fP	47	ASN
20	gP	41	GLN
20	gP	71	ASN
21	hP	47	ASN
21	hP	128	GLN
20	iP	71	ASN
21	jP	47	ASN
21	jP	117	ASN
21	kP	47	ASN
21	kP	110	ASN
21	kP	128	GLN
20	lP	71	ASN

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Mol	Chain	Res	Type
20	mP	53	GLN
20	mP	71	ASN
21	nP	47	ASN
21	nP	110	ASN
21	nP	128	GLN
21	nP	131	GLN
21	oP	47	ASN
21	oP	128	GLN
20	pP	41	GLN
20	pP	71	ASN
21	qP	47	ASN
20	rP	56	GLN
20	rP	71	ASN
21	sP	47	ASN
21	sP	128	GLN
20	tP	71	ASN
21	uP	47	ASN
21	uP	128	GLN
20	vP	56	GLN
20	vP	60	GLN
20	vP	71	ASN
21	wP	47	ASN
22	xP	143	GLN
23	yP	50	ASN
23	yP	107	ASN
23	yP	137	GLN
24	zP	89	ASN
24	zP	109	GLN
24	zP	131	ASN
25	1P	221	ASN
25	1P	229	ASN
25	1P	261	GLN
25	1P	309	GLN
25	1P	410	GLN
25	1P	415	GLN
25	1P	447	ASN
25	1P	490	GLN
25	1P	528	GLN
25	1P	542	ASN
25	1P	557	ASN
25	1P	558	ASN
25	1P	655	GLN

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Mol	Chain	Res	Type
25	1P	705	GLN
25	1P	724	GLN
25	1P	755	GLN
25	1P	800	GLN
25	1P	807	ASN
25	1P	808	GLN
25	1P	816	GLN
25	1P	849	ASN
26	2P	47	GLN
26	2P	61	ASN
27	3P	54	GLN
27	3P	98	GLN
27	3P	223	GLN
27	3P	275	ASN
28	4P	135	ASN
28	4P	145	HIS
28	4P	211	ASN
6	AQ	28	GLN
7	BQ	11	ASN
7	BQ	25	GLN
7	BQ	35	ASN
7	BQ	47	ASN
7	BQ	111	ASN
7	BQ	137	GLN
7	BQ	144	ASN
6	CQ	28	GLN
7	DQ	11	ASN
7	DQ	25	GLN
7	DQ	35	ASN
7	DQ	111	ASN
7	DQ	137	GLN
7	DQ	144	ASN
6	EQ	28	GLN
7	FQ	11	ASN
7	FQ	25	GLN
7	FQ	35	ASN
7	FQ	111	ASN
7	FQ	137	GLN
7	FQ	144	ASN
6	GQ	28	GLN
7	HQ	11	ASN
7	HQ	25	GLN

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Mol	Chain	Res	Type
7	HQ	35	ASN
7	HQ	111	ASN
7	HQ	137	GLN
7	HQ	144	ASN
6	IQ	28	GLN
7	JQ	11	ASN
7	JQ	25	GLN
7	JQ	35	ASN
7	JQ	111	ASN
7	JQ	137	GLN
7	JQ	144	ASN
6	KQ	28	GLN
6	KQ	121	ASN
7	LQ	11	ASN
7	LQ	25	GLN
7	LQ	35	ASN
7	LQ	111	ASN
7	LQ	137	GLN
7	LQ	144	ASN
14	MQ	203	GLN
14	MQ	217	GLN
14	MQ	228	GLN
14	MQ	305	HIS
8	eR	108	HIS
8	eR	151	ASN
8	eR	153	GLN
8	eR	221	ASN
8	eR	225	ASN
8	eR	258	ASN
8	eR	284	ASN
7	NR	137	GLN
7	NR	144	ASN
7	PR	144	ASN
7	RR	144	ASN
7	TR	144	ASN
7	VR	47	ASN
7	VR	144	ASN
6	WR	32	GLN
7	XR	137	GLN
7	XR	144	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

308 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
7	MEN	T2	72	7	7,8,9	0.75	0	6,9,11	1.14	1 (16%)
7	MEN	BE	72	7	7,8,9	0.66	0	6,9,11	0.74	0
7	MEN	m9	72	7	7,8,9	0.71	0	6,9,11	0.77	0
7	MEN	i9	72	7	7,8,9	0.70	0	6,9,11	0.78	0
7	MEN	m1	72	7	7,8,9	0.71	0	6,9,11	0.91	0
21	MEN	LP	71	21	7,8,9	8.57	4 (57%)	6,9,11	12.38	5 (83%)
21	MEN	jP	71	21	7,8,9	8.57	4 (57%)	6,9,11	12.38	5 (83%)
7	MEN	aK	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	FQ	72	7	7,8,9	0.66	0	6,9,11	0.97	0
7	MEN	VF	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	DG	72	7	7,8,9	0.66	0	6,9,11	0.97	0
5	MEN	JK	72	5	7,8,9	0.71	0	6,9,11	0.87	0
7	MEN	g7	72	7	7,8,9	0.72	0	6,9,11	0.78	0
21	MEN	IP	71	21	7,8,9	1.17	1 (14%)	6,9,11	0.86	0
7	MEN	gM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	NJ	72	7	7,8,9	0.76	0	6,9,11	0.89	0
21	MEN	uP	71	21	7,8,9	0.64	0	6,9,11	0.96	0
7	MEN	eK	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	nL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	TK	72	7	7,8,9	0.72	0	6,9,11	0.92	0
7	MEN	DE	72	7	7,8,9	0.67	0	6,9,11	0.73	0
7	MEN	TR	72	7	7,8,9	0.74	0	6,9,11	1.16	1 (16%)
7	MEN	D3	72	7	7,8,9	0.73	0	6,9,11	0.66	0
7	MEN	e1	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	vJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	T9	72	7	7,8,9	0.71	0	6,9,11	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	MEN	RI	72	7	7,8,9	0.76	0	6,9,11	0.81	0
7	MEN	YK	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	k9	72	7	7,8,9	0.72	0	6,9,11	0.78	0
7	MEN	T7	72	7	7,8,9	0.71	0	6,9,11	0.79	0
7	MEN	HC	72	7	7,8,9	0.66	0	6,9,11	0.75	0
7	MEN	fJ	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	kF	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	FB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	i7	72	7	7,8,9	0.70	0	6,9,11	0.78	0
7	MEN	E4	72	7	7,8,9	0.63	0	6,9,11	0.52	0
7	MEN	VL	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	V7	72	7	7,8,9	0.71	0	6,9,11	0.78	0
7	MEN	FG	72	7	7,8,9	0.66	0	6,9,11	0.97	0
5	MEN	LF	72	5	7,8,9	0.71	0	6,9,11	0.90	0
7	MEN	I8	72	7	7,8,9	0.69	0	6,9,11	0.76	0
7	MEN	FO	72	7	7,8,9	0.73	0	6,9,11	0.66	0
5	MEN	HF	72	5	7,8,9	0.71	0	6,9,11	0.90	0
7	MEN	M3	72	7	7,8,9	0.69	0	6,9,11	0.75	0
7	MEN	YI	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	XM	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	JN	72	7	7,8,9	0.73	0	6,9,11	0.82	0
7	MEN	LQ	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	PF	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	F5	72	7	7,8,9	0.72	0	6,9,11	0.64	0
7	MEN	A8	72	7	7,8,9	0.68	0	6,9,11	0.77	0
7	MEN	P9	72	7	7,8,9	0.72	0	6,9,11	0.79	0
7	MEN	TI	72	7	7,8,9	0.75	0	6,9,11	0.81	0
7	MEN	H5	72	7	7,8,9	0.72	0	6,9,11	0.65	0
7	MEN	MD	72	7	7,8,9	0.62	0	6,9,11	0.54	0
7	MEN	JE	72	7	7,8,9	0.66	0	6,9,11	0.74	0
5	MEN	NK	72	5	7,8,9	0.70	0	6,9,11	0.87	0
21	MEN	nP	71	21	7,8,9	1.15	1 (14%)	6,9,11	0.91	0
7	MEN	H3	72	7	7,8,9	0.73	0	6,9,11	0.66	0
5	MEN	FI	72	5	7,8,9	0.71	0	6,9,11	0.89	0
7	MEN	HE	72	7	7,8,9	0.66	0	6,9,11	0.75	0
7	MEN	DO	72	7	7,8,9	0.73	0	6,9,11	0.66	0
7	MEN	K4	72	7	7,8,9	0.62	0	6,9,11	0.52	0
7	MEN	bL	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	B8	72	7	7,8,9	0.73	0	6,9,11	0.65	0
5	MEN	N1	72	5	7,8,9	0.70	0	6,9,11	0.87	0
7	MEN	DA	72	7	7,8,9	0.74	0	6,9,11	0.83	0
7	MEN	H8	72	7	7,8,9	0.74	0	6,9,11	0.64	0
7	MEN	F8	72	7	7,8,9	0.72	0	6,9,11	0.64	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	MEN	qP	71	21	7,8,9	1.15	1 (14%)	6,9,11	0.99	0
7	MEN	g9	72	7	7,8,9	0.72	0	6,9,11	0.78	0
7	MEN	LB	72	7	7,8,9	0.67	0	6,9,11	0.87	0
7	MEN	BA	72	7	7,8,9	0.73	0	6,9,11	0.82	0
7	MEN	P7	72	7	7,8,9	0.72	0	6,9,11	0.79	0
7	MEN	tJ	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	GD	72	7	7,8,9	0.63	0	6,9,11	0.52	0
7	MEN	mM	72	7	7,8,9	0.67	0	6,9,11	0.87	0
7	MEN	FC	72	7	7,8,9	0.66	0	6,9,11	0.74	0
7	MEN	R2	72	7	7,8,9	0.76	0	6,9,11	1.15	1 (16%)
7	MEN	c7	72	7	7,8,9	0.72	0	6,9,11	0.78	0
5	MEN	N9	72	5	7,8,9	0.63	0	6,9,11	0.70	0
7	MEN	NL	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	eB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	KD	72	7	7,8,9	0.62	0	6,9,11	0.52	0
7	MEN	P1	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	JB	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	JC	72	7	7,8,9	0.66	0	6,9,11	0.74	0
7	MEN	K5	72	7	7,8,9	0.68	0	6,9,11	0.78	0
21	MEN	MP	71	21	7,8,9	1.13	1 (14%)	6,9,11	0.96	0
7	MEN	LN	72	7	7,8,9	0.74	0	6,9,11	0.83	0
21	MEN	sP	71	21	7,8,9	0.63	0	6,9,11	0.78	0
7	MEN	HJ	72	7	7,8,9	0.61	0	6,9,11	1.13	0
7	MEN	a9	72	7	7,8,9	0.70	0	6,9,11	0.80	0
7	MEN	BL	72	7	7,8,9	0.75	0	6,9,11	0.91	0
7	MEN	P2	72	7	7,8,9	0.76	0	6,9,11	1.15	1 (16%)
7	MEN	TF	72	7	7,8,9	0.75	0	6,9,11	0.81	0
7	MEN	LO	72	7	7,8,9	0.72	0	6,9,11	0.66	0
7	MEN	PL	72	7	7,8,9	0.77	0	6,9,11	0.90	0
7	MEN	BC	72	7	7,8,9	0.66	0	6,9,11	0.74	0
7	MEN	FM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	a7	72	7	7,8,9	0.70	0	6,9,11	0.80	0
7	MEN	e7	72	7	7,8,9	0.71	0	6,9,11	0.78	0
7	MEN	aF	72	7	7,8,9	0.75	0	6,9,11	0.81	0
7	MEN	HA	72	7	7,8,9	0.74	0	6,9,11	0.83	0
5	MEN	J9	72	5	7,8,9	0.65	0	6,9,11	0.84	0
7	MEN	kB	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	N2	72	7	7,8,9	0.74	0	6,9,11	1.15	1 (16%)
7	MEN	X2	72	7	7,8,9	0.76	0	6,9,11	1.15	1 (16%)
7	MEN	a1	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	HL	72	7	7,8,9	0.62	0	6,9,11	1.08	0
7	MEN	gB	72	7	7,8,9	0.68	0	6,9,11	0.86	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	MEN	JM	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	PM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	eF	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	eM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	B3	72	7	7,8,9	0.73	0	6,9,11	0.66	0
21	MEN	dP	71	21	7,8,9	1.14	1 (14%)	6,9,11	0.93	0
7	MEN	kM	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	LG	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	RM	72	7	7,8,9	0.67	0	6,9,11	0.86	0
21	MEN	HP	71	21	7,8,9	1.18	1 (14%)	6,9,11	0.97	0
7	MEN	PB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	TB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	FE	72	7	7,8,9	0.66	0	6,9,11	0.74	0
7	MEN	jJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	CD	72	7	7,8,9	0.63	0	6,9,11	0.52	0
7	MEN	JL	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	V1	72	7	7,8,9	0.71	0	6,9,11	0.91	0
7	MEN	c9	72	7	7,8,9	0.72	0	6,9,11	0.78	0
7	MEN	cF	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	RJ	72	7	7,8,9	0.76	0	6,9,11	0.90	0
21	MEN	kP	71	21	7,8,9	8.57	4 (57%)	6,9,11	12.37	5 (83%)
7	MEN	HM	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	MO	72	7	7,8,9	0.69	0	6,9,11	0.75	0
7	MEN	ZB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	RL	72	7	7,8,9	0.76	0	6,9,11	0.90	0
5	MEN	J7	72	5	7,8,9	0.66	0	6,9,11	0.84	0
5	MEN	J1	72	5	7,8,9	0.70	0	6,9,11	0.90	0
7	MEN	G4	72	7	7,8,9	0.63	0	6,9,11	0.53	0
7	MEN	ZL	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	jL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	TL	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	L3	72	7	7,8,9	0.72	0	6,9,11	0.66	0
5	MEN	NI	72	5	7,8,9	0.71	0	6,9,11	0.90	0
5	MEN	J1	72	5	7,8,9	0.71	0	6,9,11	0.87	0
5	MEN	DF	72	5,1	7,8,9	0.71	0	6,9,11	0.91	0
7	MEN	BO	72	7	7,8,9	0.73	0	6,9,11	0.66	0
7	MEN	TJ	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	LA	72	7	7,8,9	0.74	0	6,9,11	0.83	0
7	MEN	T1	72	7	7,8,9	0.72	0	6,9,11	0.92	0
7	MEN	RF	72	7	7,8,9	0.76	0	6,9,11	0.81	0
7	MEN	ED	72	7	7,8,9	0.63	0	6,9,11	0.53	0
5	MEN	F7	72	5	7,8,9	0.65	0	6,9,11	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	MEN	FL	72	7	7,8,9	0.75	0	6,9,11	0.89	0
7	MEN	DN	72	7	7,8,9	0.74	0	6,9,11	0.83	0
5	MEN	L7	72	5	7,8,9	0.62	0	6,9,11	0.71	0
7	MEN	C5	72	7	7,8,9	0.67	0	6,9,11	0.79	0
7	MEN	V2	72	7	7,8,9	0.75	0	6,9,11	1.15	1 (16%)
7	MEN	PR	72	7	7,8,9	0.75	0	6,9,11	1.15	1 (16%)
7	MEN	DJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	VK	72	7	7,8,9	0.71	0	6,9,11	0.91	0
5	MEN	FF	72	5	7,8,9	0.71	0	6,9,11	0.89	0
7	MEN	HO	72	7	7,8,9	0.73	0	6,9,11	0.66	0
7	MEN	lJ	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	aI	72	7	7,8,9	0.75	0	6,9,11	0.81	0
5	MEN	D7	72	5	7,8,9	0.65	0	6,9,11	0.87	0
7	MEN	XL	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	iB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	NM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	cK	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	TM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	gK	72	7	7,8,9	0.71	0	6,9,11	0.92	0
5	MEN	NF	72	5	7,8,9	0.71	0	6,9,11	0.90	0
7	MEN	FA	72	7	7,8,9	0.74	0	6,9,11	0.82	0
7	MEN	mF	72	7	7,8,9	0.77	0	6,9,11	0.81	0
7	MEN	FN	72	7	7,8,9	0.74	0	6,9,11	0.82	0
7	MEN	YF	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	I5	72	7	7,8,9	0.69	0	6,9,11	0.76	0
5	MEN	N7	72	5	7,8,9	0.63	0	6,9,11	0.70	0
7	MEN	VR	72	7	7,8,9	0.74	0	6,9,11	1.16	1 (16%)
21	MEN	DP	71	21	7,8,9	1.15	1 (14%)	6,9,11	0.95	0
21	MEN	OP	71	21	7,8,9	1.15	1 (14%)	6,9,11	0.97	0
7	MEN	L8	72	7	7,8,9	0.72	0	6,9,11	0.63	0
7	MEN	Y1	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	gI	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	HN	72	7	7,8,9	0.74	0	6,9,11	0.83	0
5	MEN	D1	72	5	7,8,9	0.70	0	6,9,11	0.87	0
7	MEN	m7	72	7	7,8,9	0.71	0	6,9,11	0.77	0
7	MEN	R1	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	B5	72	7	7,8,9	0.73	0	6,9,11	0.65	0
7	MEN	C8	72	7	7,8,9	0.67	0	6,9,11	0.79	0
7	MEN	lL	72	7	7,8,9	0.77	0	6,9,11	0.89	0
5	MEN	HK	72	5	7,8,9	0.71	0	6,9,11	0.87	0
7	MEN	gF	72	7	7,8,9	0.75	0	6,9,11	0.82	0
5	MEN	L9	72	5	7,8,9	0.62	0	6,9,11	0.72	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MEN	LI	72	5	7,8,9	0.71	0	6,9,11	0.90	0
7	MEN	RB	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	nJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	F3	72	7	7,8,9	0.73	0	6,9,11	0.66	0
5	MEN	FK	72	5	7,8,9	0.71	0	6,9,11	0.88	0
7	MEN	A5	72	7	7,8,9	0.68	0	6,9,11	0.78	0
7	MEN	XB	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	k1	72	7	7,8,9	0.70	0	6,9,11	0.91	0
5	MEN	DI	72	5,1	7,8,9	0.71	0	6,9,11	0.91	0
7	MEN	HG	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	G8	72	7	7,8,9	0.72	0	6,9,11	0.64	0
5	MEN	LK	72	5	7,8,9	0.71	0	6,9,11	0.87	0
7	MEN	cM	72	7	7,8,9	0.68	0	6,9,11	0.87	0
7	MEN	K8	72	7	7,8,9	0.68	0	6,9,11	0.78	0
7	MEN	pL	72	7	7,8,9	0.77	0	6,9,11	0.90	0
7	MEN	BN	72	7	7,8,9	0.73	0	6,9,11	0.82	0
7	MEN	VJ	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	rL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	NO	72	7	7,8,9	0.70	0	6,9,11	0.75	0
7	MEN	e9	72	7	7,8,9	0.71	0	6,9,11	0.78	0
7	MEN	VI	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	Y7	72	7	7,8,9	0.72	0	6,9,11	0.77	0
7	MEN	Y9	72	7	7,8,9	0.72	0	6,9,11	0.77	0
21	MEN	wP	71	21	7,8,9	0.79	0	6,9,11	0.63	0
5	MEN	HI	72	5	7,8,9	0.71	0	6,9,11	0.90	0
7	MEN	rJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	ZM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	kK	72	7	7,8,9	0.70	0	6,9,11	0.91	0
5	MEN	DK	72	5	7,8,9	0.71	0	6,9,11	0.86	0
5	MEN	H7	72	5	7,8,9	0.67	0	6,9,11	0.83	0
7	MEN	M4	72	7	7,8,9	0.61	0	6,9,11	0.53	0
7	MEN	HQ	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	RR	72	7	7,8,9	0.76	0	6,9,11	1.15	1 (16%)
7	MEN	R9	72	7	7,8,9	0.72	0	6,9,11	0.77	0
5	MEN	H1	72	5	7,8,9	0.71	0	6,9,11	0.85	0
7	MEN	VB	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	LJ	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	hJ	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	DB	72	7	7,8,9	0.67	0	6,9,11	0.86	0
21	MEN	SP	71	21	7,8,9	0.63	0	6,9,11	0.99	0
5	MEN	D9	72	5	7,8,9	0.65	0	6,9,11	0.87	0
21	MEN	oP	71	21	7,8,9	1.13	1 (14%)	6,9,11	0.94	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MEN	H9	72	5	7,8,9	0.67	0	6,9,11	0.83	0
7	MEN	bJ	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	PI	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	JA	72	7	7,8,9	0.73	0	6,9,11	0.82	0
7	MEN	cB	72	7	7,8,9	0.68	0	6,9,11	0.87	0
7	MEN	J3	72	7	7,8,9	0.74	0	6,9,11	0.67	0
7	MEN	XJ	72	7	7,8,9	0.77	0	6,9,11	0.89	0
7	MEN	mB	72	7	7,8,9	0.67	0	6,9,11	0.87	0
7	MEN	kI	72	7	7,8,9	0.75	0	6,9,11	0.82	0
7	MEN	I4	72	7	7,8,9	0.63	0	6,9,11	0.53	0
5	MEN	JF	72	5	7,8,9	0.70	0	6,9,11	0.90	0
7	MEN	eI	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	iI	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	tL	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	cI	72	7	7,8,9	0.75	0	6,9,11	0.82	0
21	MEN	FP	71	21	7,8,9	1.14	1 (14%)	6,9,11	0.86	0
7	MEN	C4	72	7	7,8,9	0.64	0	6,9,11	0.51	0
7	MEN	pJ	72	7	7,8,9	0.77	0	6,9,11	0.90	0
7	MEN	VM	72	7	7,8,9	0.68	0	6,9,11	0.85	0
7	MEN	JO	72	7	7,8,9	0.74	0	6,9,11	0.67	0
7	MEN	DM	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	ZJ	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	BQ	72	7	7,8,9	0.67	0	6,9,11	0.97	0
21	MEN	BP	71	21	7,8,9	1.16	1 (14%)	6,9,11	1.29	1 (16%)
7	MEN	g1	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	BJ	72	7	7,8,9	0.75	0	6,9,11	0.91	0
5	MEN	L1	72	5	7,8,9	0.71	0	6,9,11	0.87	0
7	MEN	fL	72	7	7,8,9	0.76	0	6,9,11	0.90	0
7	MEN	LC	72	7	7,8,9	0.67	0	6,9,11	0.74	0
7	MEN	BG	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	vL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	LE	72	7	7,8,9	0.67	0	6,9,11	0.74	0
7	MEN	iF	72	7	7,8,9	0.76	0	6,9,11	0.82	0
7	MEN	c1	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	LL	72	7	7,8,9	0.77	0	6,9,11	0.89	0
21	MEN	fP	71	21	7,8,9	1.16	1 (14%)	6,9,11	1.10	0
7	MEN	N3	72	7	7,8,9	0.69	0	6,9,11	0.73	0
7	MEN	mI	72	7	7,8,9	0.77	0	6,9,11	0.81	0
21	MEN	hP	71	21	7,8,9	1.14	1 (14%)	6,9,11	0.96	0
7	MEN	JJ	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	JQ	72	7	7,8,9	0.67	0	6,9,11	0.97	0
7	MEN	dJ	72	7	7,8,9	0.76	0	6,9,11	0.89	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	MEN	L5	72	7	7,8,9	0.72	0	6,9,11	0.64	0
7	MEN	iM	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	NB	72	7	7,8,9	0.68	0	6,9,11	0.86	0
7	MEN	iK	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	DQ	72	7	7,8,9	0.66	0	6,9,11	0.97	0
7	MEN	dL	72	7	7,8,9	0.76	0	6,9,11	0.89	0
7	MEN	DL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	PK	72	7	7,8,9	0.70	0	6,9,11	0.92	0
7	MEN	ID	72	7	7,8,9	0.63	0	6,9,11	0.52	0
7	MEN	PJ	72	7	7,8,9	0.77	0	6,9,11	0.90	0
7	MEN	DC	72	7	7,8,9	0.67	0	6,9,11	0.73	0
5	MEN	F1	72	5	7,8,9	0.71	0	6,9,11	0.88	0
7	MEN	HB	72	7	7,8,9	0.67	0	6,9,11	0.86	0
7	MEN	G5	72	7	7,8,9	0.73	0	6,9,11	0.63	0
7	MEN	mK	72	7	7,8,9	0.71	0	6,9,11	0.91	0
7	MEN	XR	72	7	7,8,9	0.76	0	6,9,11	1.14	1 (16%)
7	MEN	JG	72	7	7,8,9	0.67	0	6,9,11	0.97	0
21	MEN	QP	71	21	7,8,9	0.63	0	6,9,11	0.76	0
7	MEN	hL	72	7	7,8,9	0.75	0	6,9,11	0.90	0
7	MEN	V9	72	7	7,8,9	0.71	0	6,9,11	0.78	0
7	MEN	k7	72	7	7,8,9	0.72	0	6,9,11	0.78	0
7	MEN	NR	72	7	7,8,9	0.75	0	6,9,11	1.15	1 (16%)
7	MEN	LM	72	7	7,8,9	0.67	0	6,9,11	0.87	0
7	MEN	R7	72	7	7,8,9	0.72	0	6,9,11	0.77	0
5	MEN	F9	72	5	7,8,9	0.65	0	6,9,11	0.78	0
7	MEN	RK	72	7	7,8,9	0.70	0	6,9,11	0.92	0
21	MEN	UP	71	21	7,8,9	0.80	0	6,9,11	0.61	0
7	MEN	i1	72	7	7,8,9	0.71	0	6,9,11	0.92	0
7	MEN	FJ	72	7	7,8,9	0.75	0	6,9,11	0.89	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	T2	72	7	-	3/7/8/10	-
7	MEN	BE	72	7	-	2/7/8/10	-
7	MEN	m9	72	7	-	6/7/8/10	-
7	MEN	i9	72	7	-	6/7/8/10	-
7	MEN	m1	72	7	-	6/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	MEN	LP	71	21	-	6/7/8/10	-
21	MEN	jP	71	21	-	6/7/8/10	-
7	MEN	aK	72	7	-	6/7/8/10	-
7	MEN	FQ	72	7	-	4/7/8/10	-
7	MEN	VF	72	7	-	6/7/8/10	-
7	MEN	DG	72	7	-	4/7/8/10	-
5	MEN	JK	72	5	-	2/7/8/10	-
7	MEN	g7	72	7	-	6/7/8/10	-
21	MEN	IP	71	21	-	2/7/8/10	-
7	MEN	gM	72	7	-	6/7/8/10	-
7	MEN	NJ	72	7	-	4/7/8/10	-
21	MEN	uP	71	21	-	5/7/8/10	-
7	MEN	eK	72	7	-	6/7/8/10	-
7	MEN	nL	72	7	-	4/7/8/10	-
7	MEN	TK	72	7	-	6/7/8/10	-
7	MEN	DE	72	7	-	2/7/8/10	-
7	MEN	TR	72	7	-	3/7/8/10	-
7	MEN	D3	72	7	-	4/7/8/10	-
7	MEN	e1	72	7	-	6/7/8/10	-
7	MEN	vJ	72	7	-	4/7/8/10	-
7	MEN	T9	72	7	-	6/7/8/10	-
7	MEN	RI	72	7	-	6/7/8/10	-
7	MEN	YK	72	7	-	6/7/8/10	-
7	MEN	k9	72	7	-	6/7/8/10	-
7	MEN	T7	72	7	-	6/7/8/10	-
7	MEN	HC	72	7	-	2/7/8/10	-
7	MEN	fJ	72	7	-	4/7/8/10	-
7	MEN	kF	72	7	-	6/7/8/10	-
7	MEN	FB	72	7	-	6/7/8/10	-
7	MEN	i7	72	7	-	6/7/8/10	-
7	MEN	E4	72	7	-	5/7/8/10	-
7	MEN	VL	72	7	-	4/7/8/10	-
7	MEN	V7	72	7	-	6/7/8/10	-
7	MEN	FG	72	7	-	4/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	MEN	LF	72	5	-	4/7/8/10	-
7	MEN	I8	72	7	-	6/7/8/10	-
7	MEN	FO	72	7	-	4/7/8/10	-
5	MEN	HF	72	5	-	4/7/8/10	-
7	MEN	M3	72	7	-	2/7/8/10	-
7	MEN	YI	72	7	-	6/7/8/10	-
7	MEN	XM	72	7	-	6/7/8/10	-
7	MEN	JN	72	7	-	2/7/8/10	-
7	MEN	LQ	72	7	-	4/7/8/10	-
7	MEN	PF	72	7	-	6/7/8/10	-
7	MEN	F5	72	7	-	2/7/8/10	-
7	MEN	A8	72	7	-	6/7/8/10	-
7	MEN	P9	72	7	-	6/7/8/10	-
7	MEN	TI	72	7	-	6/7/8/10	-
7	MEN	H5	72	7	-	2/7/8/10	-
7	MEN	MD	72	7	-	5/7/8/10	-
7	MEN	JE	72	7	-	2/7/8/10	-
5	MEN	NK	72	5	-	2/7/8/10	-
21	MEN	nP	71	21	-	4/7/8/10	-
7	MEN	H3	72	7	-	4/7/8/10	-
5	MEN	FI	72	5	-	4/7/8/10	-
7	MEN	HE	72	7	-	2/7/8/10	-
7	MEN	DO	72	7	-	4/7/8/10	-
7	MEN	K4	72	7	-	5/7/8/10	-
7	MEN	bL	72	7	-	4/7/8/10	-
7	MEN	B8	72	7	-	2/7/8/10	-
5	MEN	N1	72	5	-	2/7/8/10	-
7	MEN	DA	72	7	-	2/7/8/10	-
7	MEN	H8	72	7	-	2/7/8/10	-
7	MEN	F8	72	7	-	2/7/8/10	-
21	MEN	qP	71	21	-	4/7/8/10	-
7	MEN	g9	72	7	-	6/7/8/10	-
7	MEN	LB	72	7	-	6/7/8/10	-
7	MEN	BA	72	7	-	2/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	P7	72	7	-	6/7/8/10	-
7	MEN	tJ	72	7	-	4/7/8/10	-
7	MEN	GD	72	7	-	5/7/8/10	-
7	MEN	mM	72	7	-	6/7/8/10	-
7	MEN	FC	72	7	-	2/7/8/10	-
7	MEN	R2	72	7	-	3/7/8/10	-
7	MEN	c7	72	7	-	6/7/8/10	-
5	MEN	N9	72	5	-	4/7/8/10	-
7	MEN	NL	72	7	-	4/7/8/10	-
7	MEN	eB	72	7	-	6/7/8/10	-
7	MEN	KD	72	7	-	5/7/8/10	-
7	MEN	P1	72	7	-	6/7/8/10	-
7	MEN	JB	72	7	-	6/7/8/10	-
7	MEN	JC	72	7	-	2/7/8/10	-
7	MEN	K5	72	7	-	6/7/8/10	-
21	MEN	MP	71	21	-	6/7/8/10	-
7	MEN	LN	72	7	-	2/7/8/10	-
21	MEN	sP	71	21	-	2/7/8/10	-
7	MEN	HJ	72	7	-	4/7/8/10	-
7	MEN	a9	72	7	-	6/7/8/10	-
7	MEN	BL	72	7	-	4/7/8/10	-
7	MEN	P2	72	7	-	3/7/8/10	-
7	MEN	TF	72	7	-	6/7/8/10	-
7	MEN	LO	72	7	-	4/7/8/10	-
7	MEN	PL	72	7	-	4/7/8/10	-
7	MEN	BC	72	7	-	2/7/8/10	-
7	MEN	FM	72	7	-	6/7/8/10	-
7	MEN	a7	72	7	-	6/7/8/10	-
7	MEN	e7	72	7	-	6/7/8/10	-
7	MEN	aF	72	7	-	6/7/8/10	-
7	MEN	HA	72	7	-	2/7/8/10	-
5	MEN	J9	72	5	-	4/7/8/10	-
7	MEN	kB	72	7	-	6/7/8/10	-
7	MEN	N2	72	7	-	3/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	X2	72	7	-	3/7/8/10	-
7	MEN	a1	72	7	-	6/7/8/10	-
7	MEN	HL	72	7	-	5/7/8/10	-
7	MEN	gB	72	7	-	6/7/8/10	-
7	MEN	JM	72	7	-	6/7/8/10	-
7	MEN	PM	72	7	-	6/7/8/10	-
7	MEN	eF	72	7	-	6/7/8/10	-
7	MEN	eM	72	7	-	6/7/8/10	-
7	MEN	B3	72	7	-	4/7/8/10	-
21	MEN	dP	71	21	-	2/7/8/10	-
7	MEN	kM	72	7	-	6/7/8/10	-
7	MEN	LG	72	7	-	4/7/8/10	-
7	MEN	RM	72	7	-	6/7/8/10	-
21	MEN	HP	71	21	-	4/7/8/10	-
7	MEN	PB	72	7	-	6/7/8/10	-
7	MEN	TB	72	7	-	6/7/8/10	-
7	MEN	FE	72	7	-	2/7/8/10	-
7	MEN	jJ	72	7	-	4/7/8/10	-
7	MEN	CD	72	7	-	5/7/8/10	-
7	MEN	JL	72	7	-	4/7/8/10	-
7	MEN	V1	72	7	-	6/7/8/10	-
7	MEN	c9	72	7	-	6/7/8/10	-
7	MEN	cF	72	7	-	6/7/8/10	-
7	MEN	RJ	72	7	-	4/7/8/10	-
21	MEN	kP	71	21	-	6/7/8/10	-
7	MEN	HM	72	7	-	6/7/8/10	-
7	MEN	MO	72	7	-	2/7/8/10	-
7	MEN	ZB	72	7	-	6/7/8/10	-
7	MEN	RL	72	7	-	4/7/8/10	-
5	MEN	J7	72	5	-	4/7/8/10	-
5	MEN	JI	72	5	-	4/7/8/10	-
7	MEN	G4	72	7	-	5/7/8/10	-
7	MEN	ZL	72	7	-	4/7/8/10	-
7	MEN	jL	72	7	-	4/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	TL	72	7	-	4/7/8/10	-
7	MEN	L3	72	7	-	4/7/8/10	-
5	MEN	NI	72	5	-	4/7/8/10	-
5	MEN	J1	72	5	-	2/7/8/10	-
5	MEN	DF	72	5,1	-	5/7/8/10	-
7	MEN	BO	72	7	-	4/7/8/10	-
7	MEN	TJ	72	7	-	4/7/8/10	-
7	MEN	LA	72	7	-	2/7/8/10	-
7	MEN	T1	72	7	-	6/7/8/10	-
7	MEN	RF	72	7	-	6/7/8/10	-
7	MEN	ED	72	7	-	5/7/8/10	-
5	MEN	F7	72	5	-	4/7/8/10	-
7	MEN	FL	72	7	-	4/7/8/10	-
7	MEN	DN	72	7	-	2/7/8/10	-
5	MEN	L7	72	5	-	2/7/8/10	-
7	MEN	C5	72	7	-	6/7/8/10	-
7	MEN	V2	72	7	-	3/7/8/10	-
7	MEN	PR	72	7	-	3/7/8/10	-
7	MEN	DJ	72	7	-	4/7/8/10	-
7	MEN	VK	72	7	-	6/7/8/10	-
5	MEN	FF	72	5	-	4/7/8/10	-
7	MEN	HO	72	7	-	4/7/8/10	-
7	MEN	IJ	72	7	-	4/7/8/10	-
7	MEN	aI	72	7	-	6/7/8/10	-
5	MEN	D7	72	5	-	2/7/8/10	-
7	MEN	XL	72	7	-	4/7/8/10	-
7	MEN	iB	72	7	-	6/7/8/10	-
7	MEN	NM	72	7	-	6/7/8/10	-
7	MEN	cK	72	7	-	6/7/8/10	-
7	MEN	TM	72	7	-	6/7/8/10	-
7	MEN	gK	72	7	-	6/7/8/10	-
5	MEN	NF	72	5	-	4/7/8/10	-
7	MEN	FA	72	7	-	2/7/8/10	-
7	MEN	mF	72	7	-	6/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	FN	72	7	-	2/7/8/10	-
7	MEN	YF	72	7	-	6/7/8/10	-
7	MEN	I5	72	7	-	6/7/8/10	-
5	MEN	N7	72	5	-	4/7/8/10	-
7	MEN	VR	72	7	-	3/7/8/10	-
21	MEN	DP	71	21	-	2/7/8/10	-
21	MEN	OP	71	21	-	4/7/8/10	-
7	MEN	L8	72	7	-	2/7/8/10	-
7	MEN	Y1	72	7	-	6/7/8/10	-
7	MEN	gI	72	7	-	6/7/8/10	-
7	MEN	HN	72	7	-	2/7/8/10	-
5	MEN	D1	72	5	-	2/7/8/10	-
7	MEN	m7	72	7	-	6/7/8/10	-
7	MEN	R1	72	7	-	6/7/8/10	-
7	MEN	B5	72	7	-	2/7/8/10	-
7	MEN	C8	72	7	-	6/7/8/10	-
7	MEN	IL	72	7	-	4/7/8/10	-
5	MEN	HK	72	5	-	2/7/8/10	-
7	MEN	gF	72	7	-	6/7/8/10	-
5	MEN	L9	72	5	-	2/7/8/10	-
5	MEN	LI	72	5	-	4/7/8/10	-
7	MEN	RB	72	7	-	6/7/8/10	-
7	MEN	nJ	72	7	-	4/7/8/10	-
7	MEN	F3	72	7	-	4/7/8/10	-
5	MEN	FK	72	5	-	2/7/8/10	-
7	MEN	A5	72	7	-	6/7/8/10	-
7	MEN	XB	72	7	-	6/7/8/10	-
7	MEN	k1	72	7	-	6/7/8/10	-
5	MEN	DI	72	5,1	-	5/7/8/10	-
7	MEN	HG	72	7	-	4/7/8/10	-
7	MEN	G8	72	7	-	2/7/8/10	-
5	MEN	LK	72	5	-	2/7/8/10	-
7	MEN	cM	72	7	-	6/7/8/10	-
7	MEN	K8	72	7	-	6/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	pL	72	7	-	4/7/8/10	-
7	MEN	BN	72	7	-	2/7/8/10	-
7	MEN	VJ	72	7	-	4/7/8/10	-
7	MEN	rL	72	7	-	4/7/8/10	-
7	MEN	NO	72	7	-	2/7/8/10	-
7	MEN	e9	72	7	-	6/7/8/10	-
7	MEN	VI	72	7	-	6/7/8/10	-
7	MEN	Y7	72	7	-	6/7/8/10	-
7	MEN	Y9	72	7	-	6/7/8/10	-
21	MEN	wP	71	21	-	4/7/8/10	-
5	MEN	HI	72	5	-	4/7/8/10	-
7	MEN	rJ	72	7	-	4/7/8/10	-
7	MEN	ZM	72	7	-	6/7/8/10	-
7	MEN	kK	72	7	-	6/7/8/10	-
5	MEN	DK	72	5	-	2/7/8/10	-
5	MEN	H7	72	5	-	6/7/8/10	-
7	MEN	M4	72	7	-	5/7/8/10	-
7	MEN	HQ	72	7	-	4/7/8/10	-
7	MEN	RR	72	7	-	3/7/8/10	-
7	MEN	R9	72	7	-	6/7/8/10	-
5	MEN	H1	72	5	-	2/7/8/10	-
7	MEN	VB	72	7	-	6/7/8/10	-
7	MEN	LJ	72	7	-	4/7/8/10	-
7	MEN	hJ	72	7	-	4/7/8/10	-
7	MEN	DB	72	7	-	6/7/8/10	-
21	MEN	SP	71	21	-	5/7/8/10	-
5	MEN	D9	72	5	-	2/7/8/10	-
21	MEN	oP	71	21	-	6/7/8/10	-
5	MEN	H9	72	5	-	6/7/8/10	-
7	MEN	bJ	72	7	-	4/7/8/10	-
7	MEN	PI	72	7	-	6/7/8/10	-
7	MEN	JA	72	7	-	2/7/8/10	-
7	MEN	cB	72	7	-	6/7/8/10	-
7	MEN	J3	72	7	-	4/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	XJ	72	7	-	4/7/8/10	-
7	MEN	mB	72	7	-	6/7/8/10	-
7	MEN	kI	72	7	-	6/7/8/10	-
7	MEN	I4	72	7	-	5/7/8/10	-
5	MEN	JF	72	5	-	4/7/8/10	-
7	MEN	eI	72	7	-	6/7/8/10	-
7	MEN	iI	72	7	-	6/7/8/10	-
7	MEN	tL	72	7	-	4/7/8/10	-
7	MEN	cI	72	7	-	6/7/8/10	-
21	MEN	FP	71	21	-	6/7/8/10	-
7	MEN	C4	72	7	-	5/7/8/10	-
7	MEN	pJ	72	7	-	4/7/8/10	-
7	MEN	VM	72	7	-	6/7/8/10	-
7	MEN	JO	72	7	-	4/7/8/10	-
7	MEN	DM	72	7	-	6/7/8/10	-
7	MEN	ZJ	72	7	-	4/7/8/10	-
7	MEN	BQ	72	7	-	4/7/8/10	-
21	MEN	BP	71	21	-	4/7/8/10	-
7	MEN	gI	72	7	-	6/7/8/10	-
7	MEN	BJ	72	7	-	4/7/8/10	-
5	MEN	L1	72	5	-	2/7/8/10	-
7	MEN	fL	72	7	-	4/7/8/10	-
7	MEN	LC	72	7	-	2/7/8/10	-
7	MEN	BG	72	7	-	4/7/8/10	-
7	MEN	vL	72	7	-	4/7/8/10	-
7	MEN	LE	72	7	-	2/7/8/10	-
7	MEN	iF	72	7	-	6/7/8/10	-
7	MEN	cI	72	7	-	6/7/8/10	-
7	MEN	LL	72	7	-	4/7/8/10	-
21	MEN	fP	71	21	-	4/7/8/10	-
7	MEN	N3	72	7	-	2/7/8/10	-
7	MEN	mI	72	7	-	6/7/8/10	-
21	MEN	hP	71	21	-	5/7/8/10	-
7	MEN	JJ	72	7	-	4/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	MEN	JQ	72	7	-	4/7/8/10	-
7	MEN	dJ	72	7	-	4/7/8/10	-
7	MEN	L5	72	7	-	2/7/8/10	-
7	MEN	iM	72	7	-	6/7/8/10	-
7	MEN	NB	72	7	-	6/7/8/10	-
7	MEN	iK	72	7	-	6/7/8/10	-
7	MEN	DQ	72	7	-	4/7/8/10	-
7	MEN	dL	72	7	-	4/7/8/10	-
7	MEN	DL	72	7	-	4/7/8/10	-
7	MEN	PK	72	7	-	6/7/8/10	-
7	MEN	ID	72	7	-	5/7/8/10	-
7	MEN	PJ	72	7	-	4/7/8/10	-
7	MEN	DC	72	7	-	2/7/8/10	-
5	MEN	F1	72	5	-	2/7/8/10	-
7	MEN	HB	72	7	-	6/7/8/10	-
7	MEN	G5	72	7	-	2/7/8/10	-
7	MEN	mK	72	7	-	6/7/8/10	-
7	MEN	XR	72	7	-	3/7/8/10	-
7	MEN	JG	72	7	-	4/7/8/10	-
21	MEN	QP	71	21	-	2/7/8/10	-
7	MEN	hL	72	7	-	4/7/8/10	-
7	MEN	V9	72	7	-	6/7/8/10	-
7	MEN	k7	72	7	-	6/7/8/10	-
7	MEN	NR	72	7	-	3/7/8/10	-
7	MEN	LM	72	7	-	6/7/8/10	-
7	MEN	R7	72	7	-	6/7/8/10	-
5	MEN	F9	72	5	-	4/7/8/10	-
7	MEN	RK	72	7	-	6/7/8/10	-
21	MEN	UP	71	21	-	4/7/8/10	-
7	MEN	i1	72	7	-	6/7/8/10	-
7	MEN	FJ	72	7	-	4/7/8/10	-

All (25) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	LP	71	MEN	O-C	21.59	2.06	1.19
21	kP	71	MEN	O-C	21.59	2.06	1.19
21	jP	71	MEN	O-C	21.58	2.06	1.19
21	jP	71	MEN	CB-CA	-5.16	1.42	1.53
21	kP	71	MEN	CB-CA	-5.16	1.42	1.53
21	LP	71	MEN	CB-CA	-5.16	1.42	1.53
21	kP	71	MEN	CB-CG	3.65	1.60	1.51
21	LP	71	MEN	CB-CG	3.63	1.59	1.51
21	jP	71	MEN	CB-CG	3.61	1.59	1.51
21	IP	71	MEN	O-C	2.91	1.31	1.19
21	OP	71	MEN	O-C	2.87	1.31	1.19
21	qP	71	MEN	O-C	2.87	1.31	1.19
21	nP	71	MEN	O-C	2.87	1.31	1.19
21	BP	71	MEN	O-C	2.87	1.31	1.19
21	HP	71	MEN	O-C	2.86	1.31	1.19
21	fP	71	MEN	O-C	2.85	1.31	1.19
21	DP	71	MEN	O-C	2.84	1.31	1.19
21	hP	71	MEN	O-C	2.84	1.31	1.19
21	dP	71	MEN	O-C	2.83	1.31	1.19
21	oP	71	MEN	O-C	2.82	1.31	1.19
21	MP	71	MEN	O-C	2.81	1.31	1.19
21	FP	71	MEN	O-C	2.80	1.31	1.19
21	kP	71	MEN	CE2-ND2	2.47	1.50	1.45
21	jP	71	MEN	CE2-ND2	2.44	1.49	1.45
21	LP	71	MEN	CE2-ND2	2.40	1.49	1.45

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	jP	71	MEN	CB-CA-C	-19.45	75.00	111.47
21	LP	71	MEN	CB-CA-C	-19.45	75.00	111.47
21	kP	71	MEN	CB-CA-C	-19.44	75.03	111.47
21	LP	71	MEN	CB-CG-ND2	14.88	135.50	115.48
21	kP	71	MEN	CB-CG-ND2	14.88	135.50	115.48
21	jP	71	MEN	CB-CG-ND2	14.86	135.47	115.48
21	LP	71	MEN	CA-CB-CG	-11.44	80.14	112.70
21	jP	71	MEN	CA-CB-CG	-11.44	80.16	112.70
21	kP	71	MEN	CA-CB-CG	-11.44	80.16	112.70
21	jP	71	MEN	OD1-CG-CB	10.17	136.40	121.50
21	LP	71	MEN	OD1-CG-CB	10.13	136.34	121.50
21	kP	71	MEN	OD1-CG-CB	10.13	136.33	121.50
21	kP	71	MEN	OD1-CG-ND2	-9.27	74.08	122.36
21	jP	71	MEN	OD1-CG-ND2	-9.27	74.10	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	LP	71	MEN	OD1-CG-ND2	-9.27	74.11	122.36
7	TR	72	MEN	CA-CB-CG	-2.49	105.61	112.70
7	PR	72	MEN	CA-CB-CG	-2.48	105.65	112.70
7	P2	72	MEN	CA-CB-CG	-2.47	105.66	112.70
7	N2	72	MEN	CA-CB-CG	-2.47	105.66	112.70
7	NR	72	MEN	CA-CB-CG	-2.47	105.66	112.70
7	RR	72	MEN	CA-CB-CG	-2.47	105.67	112.70
7	T2	72	MEN	CA-CB-CG	-2.47	105.68	112.70
7	R2	72	MEN	CA-CB-CG	-2.46	105.70	112.70
7	V2	72	MEN	CA-CB-CG	-2.46	105.70	112.70
7	VR	72	MEN	CA-CB-CG	-2.46	105.70	112.70
7	X2	72	MEN	CA-CB-CG	-2.46	105.70	112.70
7	XR	72	MEN	CA-CB-CG	-2.45	105.72	112.70
21	BP	71	MEN	CA-CB-CG	-2.45	105.73	112.70

There are no chirality outliers.

All (1368) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	P1	72	MEN	C-CA-CB-CG
7	R1	72	MEN	C-CA-CB-CG
7	T1	72	MEN	C-CA-CB-CG
7	V1	72	MEN	C-CA-CB-CG
7	Y1	72	MEN	C-CA-CB-CG
7	a1	72	MEN	C-CA-CB-CG
7	c1	72	MEN	C-CA-CB-CG
7	e1	72	MEN	C-CA-CB-CG
7	g1	72	MEN	C-CA-CB-CG
7	i1	72	MEN	C-CA-CB-CG
7	k1	72	MEN	C-CA-CB-CG
7	m1	72	MEN	C-CA-CB-CG
7	N2	72	MEN	CB-CG-ND2-CE2
7	P2	72	MEN	CB-CG-ND2-CE2
7	R2	72	MEN	CB-CG-ND2-CE2
7	T2	72	MEN	CB-CG-ND2-CE2
7	V2	72	MEN	CB-CG-ND2-CE2
7	X2	72	MEN	CB-CG-ND2-CE2
7	C4	72	MEN	O-C-CA-CB
7	C4	72	MEN	CB-CG-ND2-CE2
7	E4	72	MEN	O-C-CA-CB
7	E4	72	MEN	CB-CG-ND2-CE2
7	G4	72	MEN	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
7	G4	72	MEN	CB-CG-ND2-CE2
7	I4	72	MEN	O-C-CA-CB
7	I4	72	MEN	CB-CG-ND2-CE2
7	K4	72	MEN	O-C-CA-CB
7	K4	72	MEN	CB-CG-ND2-CE2
7	M4	72	MEN	O-C-CA-CB
7	M4	72	MEN	CB-CG-ND2-CE2
7	B5	72	MEN	CB-CG-ND2-CE2
7	B5	72	MEN	OD1-CG-ND2-CE2
7	F5	72	MEN	CB-CG-ND2-CE2
7	F5	72	MEN	OD1-CG-ND2-CE2
7	G5	72	MEN	CB-CG-ND2-CE2
7	G5	72	MEN	OD1-CG-ND2-CE2
7	H5	72	MEN	CB-CG-ND2-CE2
7	H5	72	MEN	OD1-CG-ND2-CE2
7	I5	72	MEN	CB-CG-ND2-CE2
7	K5	72	MEN	CB-CG-ND2-CE2
7	L5	72	MEN	CB-CG-ND2-CE2
7	L5	72	MEN	OD1-CG-ND2-CE2
7	A5	72	MEN	CB-CG-ND2-CE2
7	C5	72	MEN	CB-CG-ND2-CE2
5	D7	72	MEN	CB-CG-ND2-CE2
5	F7	72	MEN	C-CA-CB-CG
5	H7	72	MEN	C-CA-CB-CG
5	H7	72	MEN	CB-CG-ND2-CE2
5	J7	72	MEN	C-CA-CB-CG
7	P7	72	MEN	C-CA-CB-CG
7	R7	72	MEN	C-CA-CB-CG
7	T7	72	MEN	C-CA-CB-CG
7	V7	72	MEN	C-CA-CB-CG
7	Y7	72	MEN	C-CA-CB-CG
7	a7	72	MEN	C-CA-CB-CG
7	c7	72	MEN	C-CA-CB-CG
7	e7	72	MEN	C-CA-CB-CG
7	g7	72	MEN	C-CA-CB-CG
7	i7	72	MEN	C-CA-CB-CG
7	k7	72	MEN	C-CA-CB-CG
7	m7	72	MEN	C-CA-CB-CG
7	B8	72	MEN	CB-CG-ND2-CE2
7	B8	72	MEN	OD1-CG-ND2-CE2
7	F8	72	MEN	CB-CG-ND2-CE2
7	F8	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	G8	72	MEN	CB-CG-ND2-CE2
7	G8	72	MEN	OD1-CG-ND2-CE2
7	H8	72	MEN	CB-CG-ND2-CE2
7	H8	72	MEN	OD1-CG-ND2-CE2
7	I8	72	MEN	CB-CG-ND2-CE2
7	K8	72	MEN	CB-CG-ND2-CE2
7	L8	72	MEN	CB-CG-ND2-CE2
7	L8	72	MEN	OD1-CG-ND2-CE2
7	A8	72	MEN	CB-CG-ND2-CE2
7	C8	72	MEN	CB-CG-ND2-CE2
5	D9	72	MEN	CB-CG-ND2-CE2
5	F9	72	MEN	C-CA-CB-CG
5	H9	72	MEN	C-CA-CB-CG
5	H9	72	MEN	CB-CG-ND2-CE2
5	J9	72	MEN	C-CA-CB-CG
7	P9	72	MEN	C-CA-CB-CG
7	R9	72	MEN	C-CA-CB-CG
7	T9	72	MEN	C-CA-CB-CG
7	V9	72	MEN	C-CA-CB-CG
7	Y9	72	MEN	C-CA-CB-CG
7	a9	72	MEN	C-CA-CB-CG
7	c9	72	MEN	C-CA-CB-CG
7	e9	72	MEN	C-CA-CB-CG
7	g9	72	MEN	C-CA-CB-CG
7	i9	72	MEN	C-CA-CB-CG
7	k9	72	MEN	C-CA-CB-CG
7	m9	72	MEN	C-CA-CB-CG
7	DB	72	MEN	C-CA-CB-CG
7	DB	72	MEN	CB-CG-ND2-CE2
7	FB	72	MEN	C-CA-CB-CG
7	FB	72	MEN	CB-CG-ND2-CE2
7	HB	72	MEN	C-CA-CB-CG
7	HB	72	MEN	CB-CG-ND2-CE2
7	JB	72	MEN	C-CA-CB-CG
7	JB	72	MEN	CB-CG-ND2-CE2
7	LB	72	MEN	C-CA-CB-CG
7	LB	72	MEN	CB-CG-ND2-CE2
7	NB	72	MEN	C-CA-CB-CG
7	NB	72	MEN	CB-CG-ND2-CE2
7	PB	72	MEN	C-CA-CB-CG
7	PB	72	MEN	CB-CG-ND2-CE2
7	RB	72	MEN	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	RB	72	MEN	CB-CG-ND2-CE2
7	TB	72	MEN	C-CA-CB-CG
7	TB	72	MEN	CB-CG-ND2-CE2
7	VB	72	MEN	C-CA-CB-CG
7	VB	72	MEN	CB-CG-ND2-CE2
7	XB	72	MEN	C-CA-CB-CG
7	XB	72	MEN	CB-CG-ND2-CE2
7	ZB	72	MEN	C-CA-CB-CG
7	ZB	72	MEN	CB-CG-ND2-CE2
7	cB	72	MEN	C-CA-CB-CG
7	cB	72	MEN	CB-CG-ND2-CE2
7	eB	72	MEN	C-CA-CB-CG
7	eB	72	MEN	CB-CG-ND2-CE2
7	gB	72	MEN	C-CA-CB-CG
7	gB	72	MEN	CB-CG-ND2-CE2
7	iB	72	MEN	C-CA-CB-CG
7	iB	72	MEN	CB-CG-ND2-CE2
7	kB	72	MEN	C-CA-CB-CG
7	kB	72	MEN	CB-CG-ND2-CE2
7	mB	72	MEN	C-CA-CB-CG
7	mB	72	MEN	CB-CG-ND2-CE2
7	BC	72	MEN	C-CA-CB-CG
7	DC	72	MEN	C-CA-CB-CG
7	FC	72	MEN	C-CA-CB-CG
7	HC	72	MEN	C-CA-CB-CG
7	JC	72	MEN	C-CA-CB-CG
7	LC	72	MEN	C-CA-CB-CG
7	CD	72	MEN	O-C-CA-CB
7	CD	72	MEN	CB-CG-ND2-CE2
7	ED	72	MEN	O-C-CA-CB
7	ED	72	MEN	CB-CG-ND2-CE2
7	GD	72	MEN	O-C-CA-CB
7	GD	72	MEN	CB-CG-ND2-CE2
7	ID	72	MEN	O-C-CA-CB
7	ID	72	MEN	CB-CG-ND2-CE2
7	KD	72	MEN	O-C-CA-CB
7	KD	72	MEN	CB-CG-ND2-CE2
7	MD	72	MEN	O-C-CA-CB
7	MD	72	MEN	CB-CG-ND2-CE2
7	BE	72	MEN	C-CA-CB-CG
7	DE	72	MEN	C-CA-CB-CG
7	FE	72	MEN	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	HE	72	MEN	C-CA-CB-CG
7	JE	72	MEN	C-CA-CB-CG
7	LE	72	MEN	C-CA-CB-CG
5	DF	72	MEN	C-CA-CB-CG
5	DF	72	MEN	CB-CG-ND2-CE2
5	DF	72	MEN	OD1-CG-ND2-CE2
5	FF	72	MEN	C-CA-CB-CG
5	FF	72	MEN	CB-CG-ND2-CE2
5	FF	72	MEN	OD1-CG-ND2-CE2
5	HF	72	MEN	C-CA-CB-CG
5	HF	72	MEN	CB-CG-ND2-CE2
5	HF	72	MEN	OD1-CG-ND2-CE2
5	JF	72	MEN	C-CA-CB-CG
5	JF	72	MEN	CB-CG-ND2-CE2
5	JF	72	MEN	OD1-CG-ND2-CE2
5	LF	72	MEN	C-CA-CB-CG
5	LF	72	MEN	CB-CG-ND2-CE2
5	LF	72	MEN	OD1-CG-ND2-CE2
5	NF	72	MEN	C-CA-CB-CG
5	NF	72	MEN	CB-CG-ND2-CE2
5	NF	72	MEN	OD1-CG-ND2-CE2
7	BG	72	MEN	C-CA-CB-CG
7	DG	72	MEN	C-CA-CB-CG
7	FG	72	MEN	C-CA-CB-CG
7	HG	72	MEN	C-CA-CB-CG
7	JG	72	MEN	C-CA-CB-CG
7	LG	72	MEN	C-CA-CB-CG
5	DI	72	MEN	C-CA-CB-CG
5	DI	72	MEN	CB-CG-ND2-CE2
5	DI	72	MEN	OD1-CG-ND2-CE2
5	FI	72	MEN	C-CA-CB-CG
5	FI	72	MEN	CB-CG-ND2-CE2
5	FI	72	MEN	OD1-CG-ND2-CE2
5	HI	72	MEN	C-CA-CB-CG
5	HI	72	MEN	CB-CG-ND2-CE2
5	HI	72	MEN	OD1-CG-ND2-CE2
5	JI	72	MEN	C-CA-CB-CG
5	JI	72	MEN	CB-CG-ND2-CE2
5	JI	72	MEN	OD1-CG-ND2-CE2
5	LI	72	MEN	C-CA-CB-CG
5	LI	72	MEN	CB-CG-ND2-CE2
5	LI	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
5	NI	72	MEN	C-CA-CB-CG
5	NI	72	MEN	CB-CG-ND2-CE2
5	NI	72	MEN	OD1-CG-ND2-CE2
7	BJ	72	MEN	CB-CG-ND2-CE2
7	BJ	72	MEN	OD1-CG-ND2-CE2
7	DJ	72	MEN	CB-CG-ND2-CE2
7	DJ	72	MEN	OD1-CG-ND2-CE2
7	FJ	72	MEN	CB-CG-ND2-CE2
7	FJ	72	MEN	OD1-CG-ND2-CE2
7	HJ	72	MEN	C-CA-CB-CG
7	HJ	72	MEN	CB-CG-ND2-CE2
7	JJ	72	MEN	CB-CG-ND2-CE2
7	JJ	72	MEN	OD1-CG-ND2-CE2
7	LJ	72	MEN	CB-CG-ND2-CE2
7	LJ	72	MEN	OD1-CG-ND2-CE2
7	NJ	72	MEN	CB-CG-ND2-CE2
7	NJ	72	MEN	OD1-CG-ND2-CE2
7	PJ	72	MEN	CB-CG-ND2-CE2
7	PJ	72	MEN	OD1-CG-ND2-CE2
7	RJ	72	MEN	CB-CG-ND2-CE2
7	RJ	72	MEN	OD1-CG-ND2-CE2
7	TJ	72	MEN	CB-CG-ND2-CE2
7	TJ	72	MEN	OD1-CG-ND2-CE2
7	VJ	72	MEN	CB-CG-ND2-CE2
7	VJ	72	MEN	OD1-CG-ND2-CE2
7	XJ	72	MEN	CB-CG-ND2-CE2
7	XJ	72	MEN	OD1-CG-ND2-CE2
7	ZJ	72	MEN	CB-CG-ND2-CE2
7	ZJ	72	MEN	OD1-CG-ND2-CE2
7	bJ	72	MEN	CB-CG-ND2-CE2
7	bJ	72	MEN	OD1-CG-ND2-CE2
7	dJ	72	MEN	CB-CG-ND2-CE2
7	dJ	72	MEN	OD1-CG-ND2-CE2
7	fJ	72	MEN	CB-CG-ND2-CE2
7	fJ	72	MEN	OD1-CG-ND2-CE2
7	hJ	72	MEN	CB-CG-ND2-CE2
7	hJ	72	MEN	OD1-CG-ND2-CE2
7	jJ	72	MEN	CB-CG-ND2-CE2
7	jJ	72	MEN	OD1-CG-ND2-CE2
7	lJ	72	MEN	CB-CG-ND2-CE2
7	lJ	72	MEN	OD1-CG-ND2-CE2
7	nJ	72	MEN	CB-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	nJ	72	MEN	OD1-CG-ND2-CE2
7	pJ	72	MEN	CB-CG-ND2-CE2
7	pJ	72	MEN	OD1-CG-ND2-CE2
7	rJ	72	MEN	CB-CG-ND2-CE2
7	rJ	72	MEN	OD1-CG-ND2-CE2
7	tJ	72	MEN	CB-CG-ND2-CE2
7	tJ	72	MEN	OD1-CG-ND2-CE2
7	vJ	72	MEN	CB-CG-ND2-CE2
7	vJ	72	MEN	OD1-CG-ND2-CE2
7	PK	72	MEN	C-CA-CB-CG
7	RK	72	MEN	C-CA-CB-CG
7	TK	72	MEN	C-CA-CB-CG
7	VK	72	MEN	C-CA-CB-CG
7	YK	72	MEN	C-CA-CB-CG
7	aK	72	MEN	C-CA-CB-CG
7	cK	72	MEN	C-CA-CB-CG
7	eK	72	MEN	C-CA-CB-CG
7	gK	72	MEN	C-CA-CB-CG
7	iK	72	MEN	C-CA-CB-CG
7	kK	72	MEN	C-CA-CB-CG
7	mK	72	MEN	C-CA-CB-CG
7	BL	72	MEN	CB-CG-ND2-CE2
7	BL	72	MEN	OD1-CG-ND2-CE2
7	DL	72	MEN	CB-CG-ND2-CE2
7	DL	72	MEN	OD1-CG-ND2-CE2
7	FL	72	MEN	CB-CG-ND2-CE2
7	FL	72	MEN	OD1-CG-ND2-CE2
7	JL	72	MEN	CB-CG-ND2-CE2
7	JL	72	MEN	OD1-CG-ND2-CE2
7	LL	72	MEN	CB-CG-ND2-CE2
7	LL	72	MEN	OD1-CG-ND2-CE2
7	NL	72	MEN	CB-CG-ND2-CE2
7	NL	72	MEN	OD1-CG-ND2-CE2
7	PL	72	MEN	CB-CG-ND2-CE2
7	PL	72	MEN	OD1-CG-ND2-CE2
7	RL	72	MEN	CB-CG-ND2-CE2
7	RL	72	MEN	OD1-CG-ND2-CE2
7	TL	72	MEN	CB-CG-ND2-CE2
7	TL	72	MEN	OD1-CG-ND2-CE2
7	VL	72	MEN	CB-CG-ND2-CE2
7	VL	72	MEN	OD1-CG-ND2-CE2
7	XL	72	MEN	CB-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	XL	72	MEN	OD1-CG-ND2-CE2
7	ZL	72	MEN	CB-CG-ND2-CE2
7	ZL	72	MEN	OD1-CG-ND2-CE2
7	bL	72	MEN	CB-CG-ND2-CE2
7	bL	72	MEN	OD1-CG-ND2-CE2
7	dL	72	MEN	CB-CG-ND2-CE2
7	dL	72	MEN	OD1-CG-ND2-CE2
7	fL	72	MEN	CB-CG-ND2-CE2
7	fL	72	MEN	OD1-CG-ND2-CE2
7	hL	72	MEN	CB-CG-ND2-CE2
7	hL	72	MEN	OD1-CG-ND2-CE2
7	jL	72	MEN	CB-CG-ND2-CE2
7	jL	72	MEN	OD1-CG-ND2-CE2
7	lL	72	MEN	CB-CG-ND2-CE2
7	lL	72	MEN	OD1-CG-ND2-CE2
7	nL	72	MEN	CB-CG-ND2-CE2
7	nL	72	MEN	OD1-CG-ND2-CE2
7	pL	72	MEN	CB-CG-ND2-CE2
7	pL	72	MEN	OD1-CG-ND2-CE2
7	rL	72	MEN	CB-CG-ND2-CE2
7	rL	72	MEN	OD1-CG-ND2-CE2
7	tL	72	MEN	CB-CG-ND2-CE2
7	tL	72	MEN	OD1-CG-ND2-CE2
7	vL	72	MEN	CB-CG-ND2-CE2
7	vL	72	MEN	OD1-CG-ND2-CE2
7	DM	72	MEN	C-CA-CB-CG
7	DM	72	MEN	CB-CG-ND2-CE2
7	FM	72	MEN	C-CA-CB-CG
7	FM	72	MEN	CB-CG-ND2-CE2
7	HM	72	MEN	C-CA-CB-CG
7	HM	72	MEN	CB-CG-ND2-CE2
7	JM	72	MEN	C-CA-CB-CG
7	JM	72	MEN	CB-CG-ND2-CE2
7	LM	72	MEN	C-CA-CB-CG
7	LM	72	MEN	CB-CG-ND2-CE2
7	NM	72	MEN	C-CA-CB-CG
7	NM	72	MEN	CB-CG-ND2-CE2
7	PM	72	MEN	C-CA-CB-CG
7	PM	72	MEN	CB-CG-ND2-CE2
7	RM	72	MEN	C-CA-CB-CG
7	RM	72	MEN	CB-CG-ND2-CE2
7	TM	72	MEN	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	TM	72	MEN	CB-CG-ND2-CE2
7	VM	72	MEN	C-CA-CB-CG
7	VM	72	MEN	CB-CG-ND2-CE2
7	XM	72	MEN	C-CA-CB-CG
7	XM	72	MEN	CB-CG-ND2-CE2
7	ZM	72	MEN	C-CA-CB-CG
7	ZM	72	MEN	CB-CG-ND2-CE2
7	cM	72	MEN	C-CA-CB-CG
7	cM	72	MEN	CB-CG-ND2-CE2
7	eM	72	MEN	C-CA-CB-CG
7	eM	72	MEN	CB-CG-ND2-CE2
7	gM	72	MEN	C-CA-CB-CG
7	gM	72	MEN	CB-CG-ND2-CE2
7	iM	72	MEN	C-CA-CB-CG
7	iM	72	MEN	CB-CG-ND2-CE2
7	kM	72	MEN	C-CA-CB-CG
7	kM	72	MEN	CB-CG-ND2-CE2
7	mM	72	MEN	C-CA-CB-CG
7	mM	72	MEN	CB-CG-ND2-CE2
21	FP	71	MEN	C-CA-CB-CG
21	FP	71	MEN	CB-CG-ND2-CE2
21	BP	71	MEN	N-CA-CB-CG
21	BP	71	MEN	C-CA-CB-CG
21	BP	71	MEN	CB-CG-ND2-CE2
21	HP	71	MEN	CB-CG-ND2-CE2
21	LP	71	MEN	C-CA-CB-CG
21	LP	71	MEN	CB-CG-ND2-CE2
21	MP	71	MEN	C-CA-CB-CG
21	MP	71	MEN	CB-CG-ND2-CE2
21	OP	71	MEN	CB-CG-ND2-CE2
21	UP	71	MEN	C-CA-CB-CG
21	fP	71	MEN	C-CA-CB-CG
21	fP	71	MEN	CB-CG-ND2-CE2
21	hP	71	MEN	C-CA-CB-CG
21	hP	71	MEN	CB-CG-ND2-CE2
21	jP	71	MEN	C-CA-CB-CG
21	jP	71	MEN	CB-CG-ND2-CE2
21	kP	71	MEN	C-CA-CB-CG
21	kP	71	MEN	CB-CG-ND2-CE2
21	nP	71	MEN	CB-CG-ND2-CE2
21	oP	71	MEN	C-CA-CB-CG
21	oP	71	MEN	CB-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
21	qP	71	MEN	CB-CG-ND2-CE2
21	uP	71	MEN	CB-CG-ND2-CE2
21	wP	71	MEN	C-CA-CB-CG
7	BQ	72	MEN	C-CA-CB-CG
7	DQ	72	MEN	C-CA-CB-CG
7	FQ	72	MEN	C-CA-CB-CG
7	HQ	72	MEN	C-CA-CB-CG
7	JQ	72	MEN	C-CA-CB-CG
7	LQ	72	MEN	C-CA-CB-CG
7	NR	72	MEN	CB-CG-ND2-CE2
7	PR	72	MEN	CB-CG-ND2-CE2
7	RR	72	MEN	CB-CG-ND2-CE2
7	TR	72	MEN	CB-CG-ND2-CE2
7	VR	72	MEN	CB-CG-ND2-CE2
7	XR	72	MEN	CB-CG-ND2-CE2
21	LP	71	MEN	CA-CB-CG-ND2
21	jP	71	MEN	CA-CB-CG-ND2
21	kP	71	MEN	CA-CB-CG-ND2
7	C4	72	MEN	OD1-CG-ND2-CE2
7	E4	72	MEN	OD1-CG-ND2-CE2
7	G4	72	MEN	OD1-CG-ND2-CE2
7	I4	72	MEN	OD1-CG-ND2-CE2
7	K4	72	MEN	OD1-CG-ND2-CE2
7	M4	72	MEN	OD1-CG-ND2-CE2
7	I5	72	MEN	OD1-CG-ND2-CE2
7	K5	72	MEN	OD1-CG-ND2-CE2
7	A5	72	MEN	OD1-CG-ND2-CE2
7	C5	72	MEN	OD1-CG-ND2-CE2
5	H7	72	MEN	OD1-CG-ND2-CE2
5	N7	72	MEN	OD1-CG-ND2-CE2
7	I8	72	MEN	OD1-CG-ND2-CE2
7	K8	72	MEN	OD1-CG-ND2-CE2
7	A8	72	MEN	OD1-CG-ND2-CE2
7	C8	72	MEN	OD1-CG-ND2-CE2
5	H9	72	MEN	OD1-CG-ND2-CE2
5	N9	72	MEN	OD1-CG-ND2-CE2
7	CD	72	MEN	OD1-CG-ND2-CE2
7	ED	72	MEN	OD1-CG-ND2-CE2
7	GD	72	MEN	OD1-CG-ND2-CE2
7	ID	72	MEN	OD1-CG-ND2-CE2
7	KD	72	MEN	OD1-CG-ND2-CE2
7	MD	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	HJ	72	MEN	OD1-CG-ND2-CE2
7	HL	72	MEN	OD1-CG-ND2-CE2
21	FP	71	MEN	OD1-CG-ND2-CE2
21	HP	71	MEN	OD1-CG-ND2-CE2
21	LP	71	MEN	OD1-CG-ND2-CE2
21	MP	71	MEN	OD1-CG-ND2-CE2
21	OP	71	MEN	OD1-CG-ND2-CE2
21	hP	71	MEN	OD1-CG-ND2-CE2
21	jP	71	MEN	OD1-CG-ND2-CE2
21	kP	71	MEN	OD1-CG-ND2-CE2
21	nP	71	MEN	OD1-CG-ND2-CE2
21	uP	71	MEN	OD1-CG-ND2-CE2
7	P1	72	MEN	N-CA-CB-CG
7	R1	72	MEN	N-CA-CB-CG
7	T1	72	MEN	N-CA-CB-CG
7	V1	72	MEN	N-CA-CB-CG
7	Y1	72	MEN	N-CA-CB-CG
7	a1	72	MEN	N-CA-CB-CG
7	c1	72	MEN	N-CA-CB-CG
7	e1	72	MEN	N-CA-CB-CG
7	g1	72	MEN	N-CA-CB-CG
7	i1	72	MEN	N-CA-CB-CG
7	k1	72	MEN	N-CA-CB-CG
7	m1	72	MEN	N-CA-CB-CG
7	I5	72	MEN	N-CA-CB-CG
7	K5	72	MEN	N-CA-CB-CG
7	A5	72	MEN	N-CA-CB-CG
7	C5	72	MEN	N-CA-CB-CG
5	H7	72	MEN	N-CA-CB-CG
7	I8	72	MEN	N-CA-CB-CG
7	K8	72	MEN	N-CA-CB-CG
7	A8	72	MEN	N-CA-CB-CG
7	C8	72	MEN	N-CA-CB-CG
5	H9	72	MEN	N-CA-CB-CG
7	DB	72	MEN	N-CA-CB-CG
7	FB	72	MEN	N-CA-CB-CG
7	HB	72	MEN	N-CA-CB-CG
7	JB	72	MEN	N-CA-CB-CG
7	LB	72	MEN	N-CA-CB-CG
7	NB	72	MEN	N-CA-CB-CG
7	PB	72	MEN	N-CA-CB-CG
7	RB	72	MEN	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	TB	72	MEN	N-CA-CB-CG
7	VB	72	MEN	N-CA-CB-CG
7	XB	72	MEN	N-CA-CB-CG
7	ZB	72	MEN	N-CA-CB-CG
7	cB	72	MEN	N-CA-CB-CG
7	eB	72	MEN	N-CA-CB-CG
7	gB	72	MEN	N-CA-CB-CG
7	iB	72	MEN	N-CA-CB-CG
7	kB	72	MEN	N-CA-CB-CG
7	mB	72	MEN	N-CA-CB-CG
7	BC	72	MEN	N-CA-CB-CG
7	DC	72	MEN	N-CA-CB-CG
7	FC	72	MEN	N-CA-CB-CG
7	HC	72	MEN	N-CA-CB-CG
7	JC	72	MEN	N-CA-CB-CG
7	LC	72	MEN	N-CA-CB-CG
7	BE	72	MEN	N-CA-CB-CG
7	DE	72	MEN	N-CA-CB-CG
7	FE	72	MEN	N-CA-CB-CG
7	HE	72	MEN	N-CA-CB-CG
7	JE	72	MEN	N-CA-CB-CG
7	LE	72	MEN	N-CA-CB-CG
5	DF	72	MEN	N-CA-CB-CG
5	FF	72	MEN	N-CA-CB-CG
5	HF	72	MEN	N-CA-CB-CG
5	JF	72	MEN	N-CA-CB-CG
5	LF	72	MEN	N-CA-CB-CG
5	NF	72	MEN	N-CA-CB-CG
7	BG	72	MEN	N-CA-CB-CG
7	DG	72	MEN	N-CA-CB-CG
7	FG	72	MEN	N-CA-CB-CG
7	HG	72	MEN	N-CA-CB-CG
7	JG	72	MEN	N-CA-CB-CG
7	LG	72	MEN	N-CA-CB-CG
5	DI	72	MEN	N-CA-CB-CG
5	FI	72	MEN	N-CA-CB-CG
5	HI	72	MEN	N-CA-CB-CG
5	JI	72	MEN	N-CA-CB-CG
5	LI	72	MEN	N-CA-CB-CG
5	NI	72	MEN	N-CA-CB-CG
7	HJ	72	MEN	N-CA-CB-CG
7	PK	72	MEN	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	RK	72	MEN	N-CA-CB-CG
7	TK	72	MEN	N-CA-CB-CG
7	VK	72	MEN	N-CA-CB-CG
7	YK	72	MEN	N-CA-CB-CG
7	aK	72	MEN	N-CA-CB-CG
7	cK	72	MEN	N-CA-CB-CG
7	eK	72	MEN	N-CA-CB-CG
7	gK	72	MEN	N-CA-CB-CG
7	iK	72	MEN	N-CA-CB-CG
7	kK	72	MEN	N-CA-CB-CG
7	mK	72	MEN	N-CA-CB-CG
7	HL	72	MEN	N-CA-CB-CG
7	DM	72	MEN	N-CA-CB-CG
7	FM	72	MEN	N-CA-CB-CG
7	HM	72	MEN	N-CA-CB-CG
7	JM	72	MEN	N-CA-CB-CG
7	LM	72	MEN	N-CA-CB-CG
7	NM	72	MEN	N-CA-CB-CG
7	PM	72	MEN	N-CA-CB-CG
7	RM	72	MEN	N-CA-CB-CG
7	TM	72	MEN	N-CA-CB-CG
7	VM	72	MEN	N-CA-CB-CG
7	XM	72	MEN	N-CA-CB-CG
7	ZM	72	MEN	N-CA-CB-CG
7	cM	72	MEN	N-CA-CB-CG
7	eM	72	MEN	N-CA-CB-CG
7	gM	72	MEN	N-CA-CB-CG
7	iM	72	MEN	N-CA-CB-CG
7	kM	72	MEN	N-CA-CB-CG
7	mM	72	MEN	N-CA-CB-CG
21	FP	71	MEN	N-CA-CB-CG
21	LP	71	MEN	N-CA-CB-CG
21	MP	71	MEN	N-CA-CB-CG
21	fP	71	MEN	N-CA-CB-CG
21	hP	71	MEN	N-CA-CB-CG
21	jP	71	MEN	N-CA-CB-CG
21	kP	71	MEN	N-CA-CB-CG
21	oP	71	MEN	N-CA-CB-CG
7	BQ	72	MEN	N-CA-CB-CG
7	DQ	72	MEN	N-CA-CB-CG
7	FQ	72	MEN	N-CA-CB-CG
7	HQ	72	MEN	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	JQ	72	MEN	N-CA-CB-CG
7	LQ	72	MEN	N-CA-CB-CG
5	N7	72	MEN	CB-CG-ND2-CE2
5	N9	72	MEN	CB-CG-ND2-CE2
7	HL	72	MEN	CB-CG-ND2-CE2
7	N2	72	MEN	OD1-CG-ND2-CE2
7	P2	72	MEN	OD1-CG-ND2-CE2
7	R2	72	MEN	OD1-CG-ND2-CE2
7	T2	72	MEN	OD1-CG-ND2-CE2
7	V2	72	MEN	OD1-CG-ND2-CE2
7	X2	72	MEN	OD1-CG-ND2-CE2
5	D7	72	MEN	OD1-CG-ND2-CE2
5	D9	72	MEN	OD1-CG-ND2-CE2
7	DB	72	MEN	OD1-CG-ND2-CE2
7	FB	72	MEN	OD1-CG-ND2-CE2
7	HB	72	MEN	OD1-CG-ND2-CE2
7	JB	72	MEN	OD1-CG-ND2-CE2
7	LB	72	MEN	OD1-CG-ND2-CE2
7	NB	72	MEN	OD1-CG-ND2-CE2
7	PB	72	MEN	OD1-CG-ND2-CE2
7	RB	72	MEN	OD1-CG-ND2-CE2
7	TB	72	MEN	OD1-CG-ND2-CE2
7	VB	72	MEN	OD1-CG-ND2-CE2
7	XB	72	MEN	OD1-CG-ND2-CE2
7	ZB	72	MEN	OD1-CG-ND2-CE2
7	cB	72	MEN	OD1-CG-ND2-CE2
7	eB	72	MEN	OD1-CG-ND2-CE2
7	gB	72	MEN	OD1-CG-ND2-CE2
7	iB	72	MEN	OD1-CG-ND2-CE2
7	kB	72	MEN	OD1-CG-ND2-CE2
7	mB	72	MEN	OD1-CG-ND2-CE2
7	DM	72	MEN	OD1-CG-ND2-CE2
7	FM	72	MEN	OD1-CG-ND2-CE2
7	HM	72	MEN	OD1-CG-ND2-CE2
7	JM	72	MEN	OD1-CG-ND2-CE2
7	LM	72	MEN	OD1-CG-ND2-CE2
7	NM	72	MEN	OD1-CG-ND2-CE2
7	PM	72	MEN	OD1-CG-ND2-CE2
7	RM	72	MEN	OD1-CG-ND2-CE2
7	TM	72	MEN	OD1-CG-ND2-CE2
7	VM	72	MEN	OD1-CG-ND2-CE2
7	XM	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	ZM	72	MEN	OD1-CG-ND2-CE2
7	cM	72	MEN	OD1-CG-ND2-CE2
7	eM	72	MEN	OD1-CG-ND2-CE2
7	gM	72	MEN	OD1-CG-ND2-CE2
7	iM	72	MEN	OD1-CG-ND2-CE2
7	kM	72	MEN	OD1-CG-ND2-CE2
7	mM	72	MEN	OD1-CG-ND2-CE2
21	BP	71	MEN	OD1-CG-ND2-CE2
21	fP	71	MEN	OD1-CG-ND2-CE2
21	oP	71	MEN	OD1-CG-ND2-CE2
21	qP	71	MEN	OD1-CG-ND2-CE2
7	NR	72	MEN	OD1-CG-ND2-CE2
7	PR	72	MEN	OD1-CG-ND2-CE2
7	RR	72	MEN	OD1-CG-ND2-CE2
7	TR	72	MEN	OD1-CG-ND2-CE2
7	VR	72	MEN	OD1-CG-ND2-CE2
7	XR	72	MEN	OD1-CG-ND2-CE2
7	P1	72	MEN	CA-CB-CG-OD1
7	R1	72	MEN	CA-CB-CG-OD1
7	T1	72	MEN	CA-CB-CG-OD1
7	V1	72	MEN	CA-CB-CG-OD1
7	Y1	72	MEN	CA-CB-CG-OD1
7	a1	72	MEN	CA-CB-CG-OD1
7	c1	72	MEN	CA-CB-CG-OD1
7	e1	72	MEN	CA-CB-CG-OD1
7	g1	72	MEN	CA-CB-CG-OD1
7	i1	72	MEN	CA-CB-CG-OD1
7	k1	72	MEN	CA-CB-CG-OD1
7	m1	72	MEN	CA-CB-CG-OD1
7	B3	72	MEN	CA-CB-CG-OD1
7	D3	72	MEN	CA-CB-CG-OD1
7	F3	72	MEN	CA-CB-CG-OD1
7	H3	72	MEN	CA-CB-CG-OD1
7	J3	72	MEN	CA-CB-CG-OD1
7	L3	72	MEN	CA-CB-CG-OD1
7	M3	72	MEN	CA-CB-CG-OD1
7	N3	72	MEN	CA-CB-CG-OD1
5	F7	72	MEN	CA-CB-CG-OD1
5	L7	72	MEN	CA-CB-CG-OD1
5	N7	72	MEN	CA-CB-CG-OD1
5	F9	72	MEN	CA-CB-CG-OD1
5	L9	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
5	N9	72	MEN	CA-CB-CG-OD1
7	FB	72	MEN	CA-CB-CG-OD1
7	JB	72	MEN	CA-CB-CG-OD1
7	PB	72	MEN	CA-CB-CG-OD1
7	TB	72	MEN	CA-CB-CG-OD1
7	VB	72	MEN	CA-CB-CG-OD1
7	XB	72	MEN	CA-CB-CG-OD1
7	ZB	72	MEN	CA-CB-CG-OD1
7	eB	72	MEN	CA-CB-CG-OD1
7	gB	72	MEN	CA-CB-CG-OD1
7	iB	72	MEN	CA-CB-CG-OD1
7	kB	72	MEN	CA-CB-CG-OD1
7	PF	72	MEN	CA-CB-CG-OD1
7	RF	72	MEN	CA-CB-CG-OD1
7	TF	72	MEN	CA-CB-CG-OD1
7	VF	72	MEN	CA-CB-CG-OD1
7	YF	72	MEN	CA-CB-CG-OD1
7	aF	72	MEN	CA-CB-CG-OD1
7	cF	72	MEN	CA-CB-CG-OD1
7	eF	72	MEN	CA-CB-CG-OD1
7	gF	72	MEN	CA-CB-CG-OD1
7	iF	72	MEN	CA-CB-CG-OD1
7	kF	72	MEN	CA-CB-CG-OD1
7	mF	72	MEN	CA-CB-CG-OD1
7	BG	72	MEN	CA-CB-CG-OD1
7	DG	72	MEN	CA-CB-CG-OD1
7	FG	72	MEN	CA-CB-CG-OD1
7	HG	72	MEN	CA-CB-CG-OD1
7	JG	72	MEN	CA-CB-CG-OD1
7	LG	72	MEN	CA-CB-CG-OD1
7	PI	72	MEN	CA-CB-CG-OD1
7	RI	72	MEN	CA-CB-CG-OD1
7	TI	72	MEN	CA-CB-CG-OD1
7	VI	72	MEN	CA-CB-CG-OD1
7	YI	72	MEN	CA-CB-CG-OD1
7	aI	72	MEN	CA-CB-CG-OD1
7	cI	72	MEN	CA-CB-CG-OD1
7	eI	72	MEN	CA-CB-CG-OD1
7	gI	72	MEN	CA-CB-CG-OD1
7	iI	72	MEN	CA-CB-CG-OD1
7	kI	72	MEN	CA-CB-CG-OD1
7	mI	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	BJ	72	MEN	CA-CB-CG-OD1
7	DJ	72	MEN	CA-CB-CG-OD1
7	FJ	72	MEN	CA-CB-CG-OD1
7	JJ	72	MEN	CA-CB-CG-OD1
7	LJ	72	MEN	CA-CB-CG-OD1
7	NJ	72	MEN	CA-CB-CG-OD1
7	PJ	72	MEN	CA-CB-CG-OD1
7	RJ	72	MEN	CA-CB-CG-OD1
7	TJ	72	MEN	CA-CB-CG-OD1
7	VJ	72	MEN	CA-CB-CG-OD1
7	XJ	72	MEN	CA-CB-CG-OD1
7	ZJ	72	MEN	CA-CB-CG-OD1
7	bJ	72	MEN	CA-CB-CG-OD1
7	dJ	72	MEN	CA-CB-CG-OD1
7	fJ	72	MEN	CA-CB-CG-OD1
7	hJ	72	MEN	CA-CB-CG-OD1
7	jJ	72	MEN	CA-CB-CG-OD1
7	lJ	72	MEN	CA-CB-CG-OD1
7	nJ	72	MEN	CA-CB-CG-OD1
7	pJ	72	MEN	CA-CB-CG-OD1
7	rJ	72	MEN	CA-CB-CG-OD1
7	tJ	72	MEN	CA-CB-CG-OD1
7	vJ	72	MEN	CA-CB-CG-OD1
7	PK	72	MEN	CA-CB-CG-OD1
7	RK	72	MEN	CA-CB-CG-OD1
7	TK	72	MEN	CA-CB-CG-OD1
7	VK	72	MEN	CA-CB-CG-OD1
7	YK	72	MEN	CA-CB-CG-OD1
7	aK	72	MEN	CA-CB-CG-OD1
7	cK	72	MEN	CA-CB-CG-OD1
7	eK	72	MEN	CA-CB-CG-OD1
7	gK	72	MEN	CA-CB-CG-OD1
7	iK	72	MEN	CA-CB-CG-OD1
7	kK	72	MEN	CA-CB-CG-OD1
7	mK	72	MEN	CA-CB-CG-OD1
7	BL	72	MEN	CA-CB-CG-OD1
7	DL	72	MEN	CA-CB-CG-OD1
7	FL	72	MEN	CA-CB-CG-OD1
7	JL	72	MEN	CA-CB-CG-OD1
7	LL	72	MEN	CA-CB-CG-OD1
7	NL	72	MEN	CA-CB-CG-OD1
7	PL	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	RL	72	MEN	CA-CB-CG-OD1
7	TL	72	MEN	CA-CB-CG-OD1
7	VL	72	MEN	CA-CB-CG-OD1
7	XL	72	MEN	CA-CB-CG-OD1
7	ZL	72	MEN	CA-CB-CG-OD1
7	bL	72	MEN	CA-CB-CG-OD1
7	dL	72	MEN	CA-CB-CG-OD1
7	fL	72	MEN	CA-CB-CG-OD1
7	hL	72	MEN	CA-CB-CG-OD1
7	jL	72	MEN	CA-CB-CG-OD1
7	lL	72	MEN	CA-CB-CG-OD1
7	nL	72	MEN	CA-CB-CG-OD1
7	pL	72	MEN	CA-CB-CG-OD1
7	rL	72	MEN	CA-CB-CG-OD1
7	tL	72	MEN	CA-CB-CG-OD1
7	vL	72	MEN	CA-CB-CG-OD1
7	FM	72	MEN	CA-CB-CG-OD1
7	JM	72	MEN	CA-CB-CG-OD1
7	PM	72	MEN	CA-CB-CG-OD1
7	TM	72	MEN	CA-CB-CG-OD1
7	VM	72	MEN	CA-CB-CG-OD1
7	XM	72	MEN	CA-CB-CG-OD1
7	ZM	72	MEN	CA-CB-CG-OD1
7	eM	72	MEN	CA-CB-CG-OD1
7	gM	72	MEN	CA-CB-CG-OD1
7	iM	72	MEN	CA-CB-CG-OD1
7	kM	72	MEN	CA-CB-CG-OD1
7	BO	72	MEN	CA-CB-CG-OD1
7	DO	72	MEN	CA-CB-CG-OD1
7	FO	72	MEN	CA-CB-CG-OD1
7	HO	72	MEN	CA-CB-CG-OD1
7	JO	72	MEN	CA-CB-CG-OD1
7	LO	72	MEN	CA-CB-CG-OD1
7	MO	72	MEN	CA-CB-CG-OD1
7	NO	72	MEN	CA-CB-CG-OD1
21	FP	71	MEN	CA-CB-CG-OD1
21	QP	71	MEN	CA-CB-CG-OD1
21	kP	71	MEN	CA-CB-CG-OD1
21	nP	71	MEN	CA-CB-CG-OD1
21	sP	71	MEN	CA-CB-CG-OD1
7	BQ	72	MEN	CA-CB-CG-OD1
7	DQ	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	FQ	72	MEN	CA-CB-CG-OD1
7	HQ	72	MEN	CA-CB-CG-OD1
7	JQ	72	MEN	CA-CB-CG-OD1
7	LQ	72	MEN	CA-CB-CG-OD1
5	D1	72	MEN	CA-CB-CG-ND2
5	F1	72	MEN	CA-CB-CG-ND2
5	H1	72	MEN	CA-CB-CG-ND2
5	J1	72	MEN	CA-CB-CG-ND2
5	L1	72	MEN	CA-CB-CG-ND2
5	N1	72	MEN	CA-CB-CG-ND2
7	B3	72	MEN	CA-CB-CG-ND2
7	D3	72	MEN	CA-CB-CG-ND2
7	F3	72	MEN	CA-CB-CG-ND2
7	H3	72	MEN	CA-CB-CG-ND2
7	J3	72	MEN	CA-CB-CG-ND2
7	L3	72	MEN	CA-CB-CG-ND2
7	M3	72	MEN	CA-CB-CG-ND2
7	N3	72	MEN	CA-CB-CG-ND2
5	J7	72	MEN	CA-CB-CG-ND2
5	L7	72	MEN	CA-CB-CG-ND2
7	P7	72	MEN	CA-CB-CG-ND2
7	R7	72	MEN	CA-CB-CG-ND2
7	T7	72	MEN	CA-CB-CG-ND2
7	V7	72	MEN	CA-CB-CG-ND2
7	Y7	72	MEN	CA-CB-CG-ND2
7	a7	72	MEN	CA-CB-CG-ND2
7	c7	72	MEN	CA-CB-CG-ND2
7	e7	72	MEN	CA-CB-CG-ND2
7	g7	72	MEN	CA-CB-CG-ND2
7	i7	72	MEN	CA-CB-CG-ND2
7	k7	72	MEN	CA-CB-CG-ND2
7	m7	72	MEN	CA-CB-CG-ND2
5	J9	72	MEN	CA-CB-CG-ND2
5	L9	72	MEN	CA-CB-CG-ND2
7	P9	72	MEN	CA-CB-CG-ND2
7	R9	72	MEN	CA-CB-CG-ND2
7	T9	72	MEN	CA-CB-CG-ND2
7	V9	72	MEN	CA-CB-CG-ND2
7	Y9	72	MEN	CA-CB-CG-ND2
7	a9	72	MEN	CA-CB-CG-ND2
7	c9	72	MEN	CA-CB-CG-ND2
7	e9	72	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
7	g9	72	MEN	CA-CB-CG-ND2
7	i9	72	MEN	CA-CB-CG-ND2
7	k9	72	MEN	CA-CB-CG-ND2
7	m9	72	MEN	CA-CB-CG-ND2
7	BA	72	MEN	CA-CB-CG-ND2
7	DA	72	MEN	CA-CB-CG-ND2
7	FA	72	MEN	CA-CB-CG-ND2
7	HA	72	MEN	CA-CB-CG-ND2
7	JA	72	MEN	CA-CB-CG-ND2
7	LA	72	MEN	CA-CB-CG-ND2
7	PF	72	MEN	CA-CB-CG-ND2
7	RF	72	MEN	CA-CB-CG-ND2
7	TF	72	MEN	CA-CB-CG-ND2
7	VF	72	MEN	CA-CB-CG-ND2
7	YF	72	MEN	CA-CB-CG-ND2
7	aF	72	MEN	CA-CB-CG-ND2
7	cF	72	MEN	CA-CB-CG-ND2
7	eF	72	MEN	CA-CB-CG-ND2
7	gF	72	MEN	CA-CB-CG-ND2
7	iF	72	MEN	CA-CB-CG-ND2
7	kF	72	MEN	CA-CB-CG-ND2
7	mF	72	MEN	CA-CB-CG-ND2
7	BG	72	MEN	CA-CB-CG-ND2
7	DG	72	MEN	CA-CB-CG-ND2
7	FG	72	MEN	CA-CB-CG-ND2
7	HG	72	MEN	CA-CB-CG-ND2
7	JG	72	MEN	CA-CB-CG-ND2
7	LG	72	MEN	CA-CB-CG-ND2
7	PI	72	MEN	CA-CB-CG-ND2
7	RI	72	MEN	CA-CB-CG-ND2
7	TI	72	MEN	CA-CB-CG-ND2
7	VI	72	MEN	CA-CB-CG-ND2
7	YI	72	MEN	CA-CB-CG-ND2
7	aI	72	MEN	CA-CB-CG-ND2
7	cI	72	MEN	CA-CB-CG-ND2
7	eI	72	MEN	CA-CB-CG-ND2
7	gI	72	MEN	CA-CB-CG-ND2
7	iI	72	MEN	CA-CB-CG-ND2
7	kI	72	MEN	CA-CB-CG-ND2
7	mI	72	MEN	CA-CB-CG-ND2
7	BJ	72	MEN	CA-CB-CG-ND2
7	DJ	72	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
7	FJ	72	MEN	CA-CB-CG-ND2
7	JJ	72	MEN	CA-CB-CG-ND2
7	LJ	72	MEN	CA-CB-CG-ND2
7	NJ	72	MEN	CA-CB-CG-ND2
7	PJ	72	MEN	CA-CB-CG-ND2
7	RJ	72	MEN	CA-CB-CG-ND2
7	TJ	72	MEN	CA-CB-CG-ND2
7	VJ	72	MEN	CA-CB-CG-ND2
7	XJ	72	MEN	CA-CB-CG-ND2
7	ZJ	72	MEN	CA-CB-CG-ND2
7	bJ	72	MEN	CA-CB-CG-ND2
7	dJ	72	MEN	CA-CB-CG-ND2
7	fJ	72	MEN	CA-CB-CG-ND2
7	hJ	72	MEN	CA-CB-CG-ND2
7	jJ	72	MEN	CA-CB-CG-ND2
7	lJ	72	MEN	CA-CB-CG-ND2
7	nJ	72	MEN	CA-CB-CG-ND2
7	pJ	72	MEN	CA-CB-CG-ND2
7	rJ	72	MEN	CA-CB-CG-ND2
7	tJ	72	MEN	CA-CB-CG-ND2
7	vJ	72	MEN	CA-CB-CG-ND2
5	DK	72	MEN	CA-CB-CG-ND2
5	FK	72	MEN	CA-CB-CG-ND2
5	HK	72	MEN	CA-CB-CG-ND2
5	JK	72	MEN	CA-CB-CG-ND2
5	LK	72	MEN	CA-CB-CG-ND2
5	NK	72	MEN	CA-CB-CG-ND2
7	BL	72	MEN	CA-CB-CG-ND2
7	DL	72	MEN	CA-CB-CG-ND2
7	FL	72	MEN	CA-CB-CG-ND2
7	JL	72	MEN	CA-CB-CG-ND2
7	LL	72	MEN	CA-CB-CG-ND2
7	NL	72	MEN	CA-CB-CG-ND2
7	PL	72	MEN	CA-CB-CG-ND2
7	RL	72	MEN	CA-CB-CG-ND2
7	TL	72	MEN	CA-CB-CG-ND2
7	VL	72	MEN	CA-CB-CG-ND2
7	XL	72	MEN	CA-CB-CG-ND2
7	ZL	72	MEN	CA-CB-CG-ND2
7	bL	72	MEN	CA-CB-CG-ND2
7	dL	72	MEN	CA-CB-CG-ND2
7	fL	72	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
7	hL	72	MEN	CA-CB-CG-ND2
7	jL	72	MEN	CA-CB-CG-ND2
7	lL	72	MEN	CA-CB-CG-ND2
7	nL	72	MEN	CA-CB-CG-ND2
7	pL	72	MEN	CA-CB-CG-ND2
7	rL	72	MEN	CA-CB-CG-ND2
7	tL	72	MEN	CA-CB-CG-ND2
7	vL	72	MEN	CA-CB-CG-ND2
7	BN	72	MEN	CA-CB-CG-ND2
7	DN	72	MEN	CA-CB-CG-ND2
7	FN	72	MEN	CA-CB-CG-ND2
7	HN	72	MEN	CA-CB-CG-ND2
7	JN	72	MEN	CA-CB-CG-ND2
7	LN	72	MEN	CA-CB-CG-ND2
7	BO	72	MEN	CA-CB-CG-ND2
7	DO	72	MEN	CA-CB-CG-ND2
7	FO	72	MEN	CA-CB-CG-ND2
7	HO	72	MEN	CA-CB-CG-ND2
7	JO	72	MEN	CA-CB-CG-ND2
7	LO	72	MEN	CA-CB-CG-ND2
7	MO	72	MEN	CA-CB-CG-ND2
7	NO	72	MEN	CA-CB-CG-ND2
21	DP	71	MEN	CA-CB-CG-ND2
21	FP	71	MEN	CA-CB-CG-ND2
21	IP	71	MEN	CA-CB-CG-ND2
21	MP	71	MEN	CA-CB-CG-ND2
21	OP	71	MEN	CA-CB-CG-ND2
21	QP	71	MEN	CA-CB-CG-ND2
21	SP	71	MEN	CA-CB-CG-ND2
21	dP	71	MEN	CA-CB-CG-ND2
21	nP	71	MEN	CA-CB-CG-ND2
21	oP	71	MEN	CA-CB-CG-ND2
21	qP	71	MEN	CA-CB-CG-ND2
21	sP	71	MEN	CA-CB-CG-ND2
21	uP	71	MEN	CA-CB-CG-ND2
7	BQ	72	MEN	CA-CB-CG-ND2
7	DQ	72	MEN	CA-CB-CG-ND2
7	FQ	72	MEN	CA-CB-CG-ND2
7	HQ	72	MEN	CA-CB-CG-ND2
7	JQ	72	MEN	CA-CB-CG-ND2
7	LQ	72	MEN	CA-CB-CG-ND2
5	D1	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
5	F1	72	MEN	CA-CB-CG-OD1
5	H1	72	MEN	CA-CB-CG-OD1
5	J1	72	MEN	CA-CB-CG-OD1
5	L1	72	MEN	CA-CB-CG-OD1
5	N1	72	MEN	CA-CB-CG-OD1
7	C4	72	MEN	CA-CB-CG-OD1
7	E4	72	MEN	CA-CB-CG-OD1
7	G4	72	MEN	CA-CB-CG-OD1
7	I4	72	MEN	CA-CB-CG-OD1
7	K4	72	MEN	CA-CB-CG-OD1
7	M4	72	MEN	CA-CB-CG-OD1
7	I5	72	MEN	CA-CB-CG-OD1
7	K5	72	MEN	CA-CB-CG-OD1
7	A5	72	MEN	CA-CB-CG-OD1
7	C5	72	MEN	CA-CB-CG-OD1
5	H7	72	MEN	CA-CB-CG-OD1
5	J7	72	MEN	CA-CB-CG-OD1
7	P7	72	MEN	CA-CB-CG-OD1
7	R7	72	MEN	CA-CB-CG-OD1
7	T7	72	MEN	CA-CB-CG-OD1
7	V7	72	MEN	CA-CB-CG-OD1
7	Y7	72	MEN	CA-CB-CG-OD1
7	a7	72	MEN	CA-CB-CG-OD1
7	c7	72	MEN	CA-CB-CG-OD1
7	e7	72	MEN	CA-CB-CG-OD1
7	g7	72	MEN	CA-CB-CG-OD1
7	i7	72	MEN	CA-CB-CG-OD1
7	k7	72	MEN	CA-CB-CG-OD1
7	m7	72	MEN	CA-CB-CG-OD1
7	I8	72	MEN	CA-CB-CG-OD1
7	K8	72	MEN	CA-CB-CG-OD1
7	A8	72	MEN	CA-CB-CG-OD1
7	C8	72	MEN	CA-CB-CG-OD1
5	H9	72	MEN	CA-CB-CG-OD1
5	J9	72	MEN	CA-CB-CG-OD1
7	P9	72	MEN	CA-CB-CG-OD1
7	R9	72	MEN	CA-CB-CG-OD1
7	T9	72	MEN	CA-CB-CG-OD1
7	V9	72	MEN	CA-CB-CG-OD1
7	Y9	72	MEN	CA-CB-CG-OD1
7	a9	72	MEN	CA-CB-CG-OD1
7	c9	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	e9	72	MEN	CA-CB-CG-OD1
7	g9	72	MEN	CA-CB-CG-OD1
7	i9	72	MEN	CA-CB-CG-OD1
7	k9	72	MEN	CA-CB-CG-OD1
7	m9	72	MEN	CA-CB-CG-OD1
7	BA	72	MEN	CA-CB-CG-OD1
7	DA	72	MEN	CA-CB-CG-OD1
7	FA	72	MEN	CA-CB-CG-OD1
7	HA	72	MEN	CA-CB-CG-OD1
7	JA	72	MEN	CA-CB-CG-OD1
7	LA	72	MEN	CA-CB-CG-OD1
7	DB	72	MEN	CA-CB-CG-OD1
7	HB	72	MEN	CA-CB-CG-OD1
7	LB	72	MEN	CA-CB-CG-OD1
7	NB	72	MEN	CA-CB-CG-OD1
7	RB	72	MEN	CA-CB-CG-OD1
7	cB	72	MEN	CA-CB-CG-OD1
7	mB	72	MEN	CA-CB-CG-OD1
7	CD	72	MEN	CA-CB-CG-OD1
7	ED	72	MEN	CA-CB-CG-OD1
7	GD	72	MEN	CA-CB-CG-OD1
7	ID	72	MEN	CA-CB-CG-OD1
7	KD	72	MEN	CA-CB-CG-OD1
7	MD	72	MEN	CA-CB-CG-OD1
5	DK	72	MEN	CA-CB-CG-OD1
5	FK	72	MEN	CA-CB-CG-OD1
5	HK	72	MEN	CA-CB-CG-OD1
5	JK	72	MEN	CA-CB-CG-OD1
5	LK	72	MEN	CA-CB-CG-OD1
5	NK	72	MEN	CA-CB-CG-OD1
7	DM	72	MEN	CA-CB-CG-OD1
7	HM	72	MEN	CA-CB-CG-OD1
7	LM	72	MEN	CA-CB-CG-OD1
7	NM	72	MEN	CA-CB-CG-OD1
7	RM	72	MEN	CA-CB-CG-OD1
7	cM	72	MEN	CA-CB-CG-OD1
7	mM	72	MEN	CA-CB-CG-OD1
7	BN	72	MEN	CA-CB-CG-OD1
7	DN	72	MEN	CA-CB-CG-OD1
7	FN	72	MEN	CA-CB-CG-OD1
7	HN	72	MEN	CA-CB-CG-OD1
7	JN	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	LN	72	MEN	CA-CB-CG-OD1
21	DP	71	MEN	CA-CB-CG-OD1
21	HP	71	MEN	CA-CB-CG-OD1
21	IP	71	MEN	CA-CB-CG-OD1
21	LP	71	MEN	CA-CB-CG-OD1
21	MP	71	MEN	CA-CB-CG-OD1
21	SP	71	MEN	CA-CB-CG-OD1
21	dP	71	MEN	CA-CB-CG-OD1
21	jP	71	MEN	CA-CB-CG-OD1
21	oP	71	MEN	CA-CB-CG-OD1
21	qP	71	MEN	CA-CB-CG-OD1
21	uP	71	MEN	CA-CB-CG-OD1
7	P1	72	MEN	CA-CB-CG-ND2
7	R1	72	MEN	CA-CB-CG-ND2
7	T1	72	MEN	CA-CB-CG-ND2
7	V1	72	MEN	CA-CB-CG-ND2
7	Y1	72	MEN	CA-CB-CG-ND2
7	a1	72	MEN	CA-CB-CG-ND2
7	c1	72	MEN	CA-CB-CG-ND2
7	e1	72	MEN	CA-CB-CG-ND2
7	g1	72	MEN	CA-CB-CG-ND2
7	i1	72	MEN	CA-CB-CG-ND2
7	k1	72	MEN	CA-CB-CG-ND2
7	m1	72	MEN	CA-CB-CG-ND2
7	DB	72	MEN	CA-CB-CG-ND2
7	FB	72	MEN	CA-CB-CG-ND2
7	HB	72	MEN	CA-CB-CG-ND2
7	JB	72	MEN	CA-CB-CG-ND2
7	LB	72	MEN	CA-CB-CG-ND2
7	NB	72	MEN	CA-CB-CG-ND2
7	PB	72	MEN	CA-CB-CG-ND2
7	RB	72	MEN	CA-CB-CG-ND2
7	TB	72	MEN	CA-CB-CG-ND2
7	VB	72	MEN	CA-CB-CG-ND2
7	XB	72	MEN	CA-CB-CG-ND2
7	ZB	72	MEN	CA-CB-CG-ND2
7	cB	72	MEN	CA-CB-CG-ND2
7	eB	72	MEN	CA-CB-CG-ND2
7	gB	72	MEN	CA-CB-CG-ND2
7	iB	72	MEN	CA-CB-CG-ND2
7	kB	72	MEN	CA-CB-CG-ND2
7	mB	72	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
7	PK	72	MEN	CA-CB-CG-ND2
7	RK	72	MEN	CA-CB-CG-ND2
7	TK	72	MEN	CA-CB-CG-ND2
7	VK	72	MEN	CA-CB-CG-ND2
7	YK	72	MEN	CA-CB-CG-ND2
7	aK	72	MEN	CA-CB-CG-ND2
7	cK	72	MEN	CA-CB-CG-ND2
7	eK	72	MEN	CA-CB-CG-ND2
7	gK	72	MEN	CA-CB-CG-ND2
7	iK	72	MEN	CA-CB-CG-ND2
7	kK	72	MEN	CA-CB-CG-ND2
7	mK	72	MEN	CA-CB-CG-ND2
7	DM	72	MEN	CA-CB-CG-ND2
7	FM	72	MEN	CA-CB-CG-ND2
7	HM	72	MEN	CA-CB-CG-ND2
7	JM	72	MEN	CA-CB-CG-ND2
7	LM	72	MEN	CA-CB-CG-ND2
7	NM	72	MEN	CA-CB-CG-ND2
7	PM	72	MEN	CA-CB-CG-ND2
7	RM	72	MEN	CA-CB-CG-ND2
7	TM	72	MEN	CA-CB-CG-ND2
7	VM	72	MEN	CA-CB-CG-ND2
7	XM	72	MEN	CA-CB-CG-ND2
7	ZM	72	MEN	CA-CB-CG-ND2
7	cM	72	MEN	CA-CB-CG-ND2
7	eM	72	MEN	CA-CB-CG-ND2
7	gM	72	MEN	CA-CB-CG-ND2
7	iM	72	MEN	CA-CB-CG-ND2
7	kM	72	MEN	CA-CB-CG-ND2
7	mM	72	MEN	CA-CB-CG-ND2
21	HP	71	MEN	CA-CB-CG-ND2
7	P1	72	MEN	CB-CG-ND2-CE2
7	R1	72	MEN	CB-CG-ND2-CE2
7	T1	72	MEN	CB-CG-ND2-CE2
7	V1	72	MEN	CB-CG-ND2-CE2
7	Y1	72	MEN	CB-CG-ND2-CE2
7	a1	72	MEN	CB-CG-ND2-CE2
7	c1	72	MEN	CB-CG-ND2-CE2
7	e1	72	MEN	CB-CG-ND2-CE2
7	g1	72	MEN	CB-CG-ND2-CE2
7	i1	72	MEN	CB-CG-ND2-CE2
7	k1	72	MEN	CB-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	m1	72	MEN	CB-CG-ND2-CE2
7	PF	72	MEN	CB-CG-ND2-CE2
7	RF	72	MEN	CB-CG-ND2-CE2
7	TF	72	MEN	CB-CG-ND2-CE2
7	VF	72	MEN	CB-CG-ND2-CE2
7	YF	72	MEN	CB-CG-ND2-CE2
7	aF	72	MEN	CB-CG-ND2-CE2
7	cF	72	MEN	CB-CG-ND2-CE2
7	eF	72	MEN	CB-CG-ND2-CE2
7	gF	72	MEN	CB-CG-ND2-CE2
7	iF	72	MEN	CB-CG-ND2-CE2
7	kF	72	MEN	CB-CG-ND2-CE2
7	mF	72	MEN	CB-CG-ND2-CE2
7	PI	72	MEN	CB-CG-ND2-CE2
7	RI	72	MEN	CB-CG-ND2-CE2
7	TI	72	MEN	CB-CG-ND2-CE2
7	VI	72	MEN	CB-CG-ND2-CE2
7	YI	72	MEN	CB-CG-ND2-CE2
7	aI	72	MEN	CB-CG-ND2-CE2
7	cI	72	MEN	CB-CG-ND2-CE2
7	eI	72	MEN	CB-CG-ND2-CE2
7	gI	72	MEN	CB-CG-ND2-CE2
7	iI	72	MEN	CB-CG-ND2-CE2
7	kI	72	MEN	CB-CG-ND2-CE2
7	mI	72	MEN	CB-CG-ND2-CE2
7	PK	72	MEN	CB-CG-ND2-CE2
7	RK	72	MEN	CB-CG-ND2-CE2
7	TK	72	MEN	CB-CG-ND2-CE2
7	VK	72	MEN	CB-CG-ND2-CE2
7	YK	72	MEN	CB-CG-ND2-CE2
7	aK	72	MEN	CB-CG-ND2-CE2
7	cK	72	MEN	CB-CG-ND2-CE2
7	eK	72	MEN	CB-CG-ND2-CE2
7	gK	72	MEN	CB-CG-ND2-CE2
7	iK	72	MEN	CB-CG-ND2-CE2
7	kK	72	MEN	CB-CG-ND2-CE2
7	mK	72	MEN	CB-CG-ND2-CE2
21	SP	71	MEN	CB-CG-ND2-CE2
7	B3	72	MEN	C-CA-CB-CG
7	D3	72	MEN	C-CA-CB-CG
7	F3	72	MEN	C-CA-CB-CG
7	H3	72	MEN	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	J3	72	MEN	C-CA-CB-CG
7	L3	72	MEN	C-CA-CB-CG
7	I5	72	MEN	C-CA-CB-CG
7	K5	72	MEN	C-CA-CB-CG
7	A5	72	MEN	C-CA-CB-CG
7	C5	72	MEN	C-CA-CB-CG
7	I8	72	MEN	C-CA-CB-CG
7	K8	72	MEN	C-CA-CB-CG
7	A8	72	MEN	C-CA-CB-CG
7	C8	72	MEN	C-CA-CB-CG
7	PF	72	MEN	C-CA-CB-CG
7	RF	72	MEN	C-CA-CB-CG
7	TF	72	MEN	C-CA-CB-CG
7	VF	72	MEN	C-CA-CB-CG
7	YF	72	MEN	C-CA-CB-CG
7	aF	72	MEN	C-CA-CB-CG
7	cF	72	MEN	C-CA-CB-CG
7	eF	72	MEN	C-CA-CB-CG
7	gF	72	MEN	C-CA-CB-CG
7	iF	72	MEN	C-CA-CB-CG
7	kF	72	MEN	C-CA-CB-CG
7	mF	72	MEN	C-CA-CB-CG
7	PI	72	MEN	C-CA-CB-CG
7	RI	72	MEN	C-CA-CB-CG
7	TI	72	MEN	C-CA-CB-CG
7	VI	72	MEN	C-CA-CB-CG
7	YI	72	MEN	C-CA-CB-CG
7	aI	72	MEN	C-CA-CB-CG
7	cI	72	MEN	C-CA-CB-CG
7	eI	72	MEN	C-CA-CB-CG
7	gI	72	MEN	C-CA-CB-CG
7	iI	72	MEN	C-CA-CB-CG
7	kI	72	MEN	C-CA-CB-CG
7	mI	72	MEN	C-CA-CB-CG
7	HL	72	MEN	C-CA-CB-CG
7	BO	72	MEN	C-CA-CB-CG
7	DO	72	MEN	C-CA-CB-CG
7	FO	72	MEN	C-CA-CB-CG
7	HO	72	MEN	C-CA-CB-CG
7	JO	72	MEN	C-CA-CB-CG
7	LO	72	MEN	C-CA-CB-CG
7	PF	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	RF	72	MEN	OD1-CG-ND2-CE2
7	TF	72	MEN	OD1-CG-ND2-CE2
7	VF	72	MEN	OD1-CG-ND2-CE2
7	YF	72	MEN	OD1-CG-ND2-CE2
7	aF	72	MEN	OD1-CG-ND2-CE2
7	cF	72	MEN	OD1-CG-ND2-CE2
7	eF	72	MEN	OD1-CG-ND2-CE2
7	gF	72	MEN	OD1-CG-ND2-CE2
7	iF	72	MEN	OD1-CG-ND2-CE2
7	kF	72	MEN	OD1-CG-ND2-CE2
7	mF	72	MEN	OD1-CG-ND2-CE2
7	PI	72	MEN	OD1-CG-ND2-CE2
7	RI	72	MEN	OD1-CG-ND2-CE2
7	TI	72	MEN	OD1-CG-ND2-CE2
7	VI	72	MEN	OD1-CG-ND2-CE2
7	YI	72	MEN	OD1-CG-ND2-CE2
7	aI	72	MEN	OD1-CG-ND2-CE2
7	cI	72	MEN	OD1-CG-ND2-CE2
7	eI	72	MEN	OD1-CG-ND2-CE2
7	gI	72	MEN	OD1-CG-ND2-CE2
7	iI	72	MEN	OD1-CG-ND2-CE2
7	kI	72	MEN	OD1-CG-ND2-CE2
7	mI	72	MEN	OD1-CG-ND2-CE2
21	OP	71	MEN	CA-CB-CG-OD1
7	C4	72	MEN	CA-CB-CG-ND2
7	E4	72	MEN	CA-CB-CG-ND2
7	G4	72	MEN	CA-CB-CG-ND2
7	I4	72	MEN	CA-CB-CG-ND2
7	K4	72	MEN	CA-CB-CG-ND2
7	M4	72	MEN	CA-CB-CG-ND2
7	I5	72	MEN	CA-CB-CG-ND2
7	K5	72	MEN	CA-CB-CG-ND2
7	A5	72	MEN	CA-CB-CG-ND2
7	C5	72	MEN	CA-CB-CG-ND2
5	F7	72	MEN	CA-CB-CG-ND2
5	H7	72	MEN	CA-CB-CG-ND2
5	N7	72	MEN	CA-CB-CG-ND2
7	I8	72	MEN	CA-CB-CG-ND2
7	K8	72	MEN	CA-CB-CG-ND2
7	A8	72	MEN	CA-CB-CG-ND2
7	C8	72	MEN	CA-CB-CG-ND2
5	F9	72	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
5	H9	72	MEN	CA-CB-CG-ND2
5	N9	72	MEN	CA-CB-CG-ND2
7	CD	72	MEN	CA-CB-CG-ND2
7	ED	72	MEN	CA-CB-CG-ND2
7	GD	72	MEN	CA-CB-CG-ND2
7	ID	72	MEN	CA-CB-CG-ND2
7	KD	72	MEN	CA-CB-CG-ND2
7	MD	72	MEN	CA-CB-CG-ND2
21	UP	71	MEN	CA-CB-CG-ND2
21	wP	71	MEN	CA-CB-CG-ND2
5	F7	72	MEN	N-CA-CB-CG
5	J7	72	MEN	N-CA-CB-CG
7	P7	72	MEN	N-CA-CB-CG
7	R7	72	MEN	N-CA-CB-CG
7	T7	72	MEN	N-CA-CB-CG
7	V7	72	MEN	N-CA-CB-CG
7	Y7	72	MEN	N-CA-CB-CG
7	a7	72	MEN	N-CA-CB-CG
7	c7	72	MEN	N-CA-CB-CG
7	e7	72	MEN	N-CA-CB-CG
7	g7	72	MEN	N-CA-CB-CG
7	i7	72	MEN	N-CA-CB-CG
7	k7	72	MEN	N-CA-CB-CG
7	m7	72	MEN	N-CA-CB-CG
5	F9	72	MEN	N-CA-CB-CG
5	J9	72	MEN	N-CA-CB-CG
7	P9	72	MEN	N-CA-CB-CG
7	R9	72	MEN	N-CA-CB-CG
7	T9	72	MEN	N-CA-CB-CG
7	V9	72	MEN	N-CA-CB-CG
7	Y9	72	MEN	N-CA-CB-CG
7	a9	72	MEN	N-CA-CB-CG
7	c9	72	MEN	N-CA-CB-CG
7	e9	72	MEN	N-CA-CB-CG
7	g9	72	MEN	N-CA-CB-CG
7	i9	72	MEN	N-CA-CB-CG
7	k9	72	MEN	N-CA-CB-CG
7	m9	72	MEN	N-CA-CB-CG
21	UP	71	MEN	N-CA-CB-CG
21	wP	71	MEN	N-CA-CB-CG
21	SP	71	MEN	OD1-CG-ND2-CE2
7	P7	72	MEN	CB-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	R7	72	MEN	CB-CG-ND2-CE2
7	T7	72	MEN	CB-CG-ND2-CE2
7	V7	72	MEN	CB-CG-ND2-CE2
7	Y7	72	MEN	CB-CG-ND2-CE2
7	a7	72	MEN	CB-CG-ND2-CE2
7	c7	72	MEN	CB-CG-ND2-CE2
7	e7	72	MEN	CB-CG-ND2-CE2
7	g7	72	MEN	CB-CG-ND2-CE2
7	i7	72	MEN	CB-CG-ND2-CE2
7	k7	72	MEN	CB-CG-ND2-CE2
7	m7	72	MEN	CB-CG-ND2-CE2
7	P9	72	MEN	CB-CG-ND2-CE2
7	R9	72	MEN	CB-CG-ND2-CE2
7	T9	72	MEN	CB-CG-ND2-CE2
7	V9	72	MEN	CB-CG-ND2-CE2
7	Y9	72	MEN	CB-CG-ND2-CE2
7	a9	72	MEN	CB-CG-ND2-CE2
7	c9	72	MEN	CB-CG-ND2-CE2
7	e9	72	MEN	CB-CG-ND2-CE2
7	g9	72	MEN	CB-CG-ND2-CE2
7	i9	72	MEN	CB-CG-ND2-CE2
7	k9	72	MEN	CB-CG-ND2-CE2
7	m9	72	MEN	CB-CG-ND2-CE2
21	UP	71	MEN	CA-CB-CG-OD1
21	wP	71	MEN	CA-CB-CG-OD1
7	P1	72	MEN	OD1-CG-ND2-CE2
7	R1	72	MEN	OD1-CG-ND2-CE2
7	T1	72	MEN	OD1-CG-ND2-CE2
7	V1	72	MEN	OD1-CG-ND2-CE2
7	Y1	72	MEN	OD1-CG-ND2-CE2
7	a1	72	MEN	OD1-CG-ND2-CE2
7	c1	72	MEN	OD1-CG-ND2-CE2
7	e1	72	MEN	OD1-CG-ND2-CE2
7	g1	72	MEN	OD1-CG-ND2-CE2
7	i1	72	MEN	OD1-CG-ND2-CE2
7	k1	72	MEN	OD1-CG-ND2-CE2
7	m1	72	MEN	OD1-CG-ND2-CE2
7	P7	72	MEN	OD1-CG-ND2-CE2
7	R7	72	MEN	OD1-CG-ND2-CE2
7	T7	72	MEN	OD1-CG-ND2-CE2
7	V7	72	MEN	OD1-CG-ND2-CE2
7	Y7	72	MEN	OD1-CG-ND2-CE2

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Mol	Chain	Res	Type	Atoms
7	a7	72	MEN	OD1-CG-ND2-CE2
7	c7	72	MEN	OD1-CG-ND2-CE2
7	e7	72	MEN	OD1-CG-ND2-CE2
7	g7	72	MEN	OD1-CG-ND2-CE2
7	i7	72	MEN	OD1-CG-ND2-CE2
7	k7	72	MEN	OD1-CG-ND2-CE2
7	m7	72	MEN	OD1-CG-ND2-CE2
7	P9	72	MEN	OD1-CG-ND2-CE2
7	R9	72	MEN	OD1-CG-ND2-CE2
7	T9	72	MEN	OD1-CG-ND2-CE2
7	V9	72	MEN	OD1-CG-ND2-CE2
7	Y9	72	MEN	OD1-CG-ND2-CE2
7	a9	72	MEN	OD1-CG-ND2-CE2
7	c9	72	MEN	OD1-CG-ND2-CE2
7	e9	72	MEN	OD1-CG-ND2-CE2
7	g9	72	MEN	OD1-CG-ND2-CE2
7	i9	72	MEN	OD1-CG-ND2-CE2
7	k9	72	MEN	OD1-CG-ND2-CE2
7	m9	72	MEN	OD1-CG-ND2-CE2
7	PK	72	MEN	OD1-CG-ND2-CE2
7	RK	72	MEN	OD1-CG-ND2-CE2
7	TK	72	MEN	OD1-CG-ND2-CE2
7	VK	72	MEN	OD1-CG-ND2-CE2
7	YK	72	MEN	OD1-CG-ND2-CE2
7	aK	72	MEN	OD1-CG-ND2-CE2
7	cK	72	MEN	OD1-CG-ND2-CE2
7	eK	72	MEN	OD1-CG-ND2-CE2
7	gK	72	MEN	OD1-CG-ND2-CE2
7	iK	72	MEN	OD1-CG-ND2-CE2
7	kK	72	MEN	OD1-CG-ND2-CE2
7	mK	72	MEN	OD1-CG-ND2-CE2
7	B3	72	MEN	N-CA-CB-CG
7	D3	72	MEN	N-CA-CB-CG
7	F3	72	MEN	N-CA-CB-CG
7	H3	72	MEN	N-CA-CB-CG
7	J3	72	MEN	N-CA-CB-CG
7	L3	72	MEN	N-CA-CB-CG
7	PF	72	MEN	N-CA-CB-CG
7	RF	72	MEN	N-CA-CB-CG
7	TF	72	MEN	N-CA-CB-CG
7	VF	72	MEN	N-CA-CB-CG
7	YF	72	MEN	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
7	aF	72	MEN	N-CA-CB-CG
7	cF	72	MEN	N-CA-CB-CG
7	eF	72	MEN	N-CA-CB-CG
7	gF	72	MEN	N-CA-CB-CG
7	iF	72	MEN	N-CA-CB-CG
7	kF	72	MEN	N-CA-CB-CG
7	mF	72	MEN	N-CA-CB-CG
7	PI	72	MEN	N-CA-CB-CG
7	RI	72	MEN	N-CA-CB-CG
7	TI	72	MEN	N-CA-CB-CG
7	VI	72	MEN	N-CA-CB-CG
7	YI	72	MEN	N-CA-CB-CG
7	aI	72	MEN	N-CA-CB-CG
7	cI	72	MEN	N-CA-CB-CG
7	eI	72	MEN	N-CA-CB-CG
7	gI	72	MEN	N-CA-CB-CG
7	iI	72	MEN	N-CA-CB-CG
7	kI	72	MEN	N-CA-CB-CG
7	mI	72	MEN	N-CA-CB-CG
7	BO	72	MEN	N-CA-CB-CG
7	DO	72	MEN	N-CA-CB-CG
7	FO	72	MEN	N-CA-CB-CG
7	HO	72	MEN	N-CA-CB-CG
7	JO	72	MEN	N-CA-CB-CG
7	LO	72	MEN	N-CA-CB-CG
21	SP	71	MEN	N-CA-CB-CG
21	uP	71	MEN	N-CA-CB-CG
21	hP	71	MEN	CA-CB-CG-OD1
7	N2	72	MEN	CA-CB-CG-OD1
7	P2	72	MEN	CA-CB-CG-OD1
7	R2	72	MEN	CA-CB-CG-OD1
7	T2	72	MEN	CA-CB-CG-OD1
7	V2	72	MEN	CA-CB-CG-OD1
7	X2	72	MEN	CA-CB-CG-OD1
5	DF	72	MEN	CA-CB-CG-OD1
5	DI	72	MEN	CA-CB-CG-OD1
7	HL	72	MEN	CA-CB-CG-OD1
7	NR	72	MEN	CA-CB-CG-OD1
7	PR	72	MEN	CA-CB-CG-OD1
7	RR	72	MEN	CA-CB-CG-OD1
7	TR	72	MEN	CA-CB-CG-OD1
7	VR	72	MEN	CA-CB-CG-OD1

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Mol	Chain	Res	Type	Atoms
7	XR	72	MEN	CA-CB-CG-OD1

There are no ring outliers.

73 monomers are involved in 177 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	i9	72	MEN	1	0
21	LP	71	MEN	5	0
21	jP	71	MEN	4	0
21	IP	71	MEN	1	0
21	uP	71	MEN	1	0
7	TR	72	MEN	3	0
7	i7	72	MEN	1	0
7	VL	72	MEN	1	0
5	LF	72	MEN	3	0
7	I8	72	MEN	7	0
7	F5	72	MEN	4	0
7	H5	72	MEN	4	0
21	nP	71	MEN	4	0
7	bL	72	MEN	1	0
7	B8	72	MEN	4	0
7	H8	72	MEN	4	0
7	F8	72	MEN	4	0
21	qP	71	MEN	1	0
7	GD	72	MEN	1	0
5	N9	72	MEN	5	0
7	NL	72	MEN	1	0
21	MP	71	MEN	1	0
21	sP	71	MEN	1	0
7	HJ	72	MEN	9	0
7	BL	72	MEN	1	0
7	PL	72	MEN	1	0
7	N2	72	MEN	2	0
7	HL	72	MEN	8	0
21	dP	71	MEN	1	0
21	HP	71	MEN	1	0
7	jJ	72	MEN	1	0
7	JL	72	MEN	1	0
7	RJ	72	MEN	1	0
21	kP	71	MEN	4	0
7	RL	72	MEN	1	0
5	J7	72	MEN	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	G4	72	MEN	1	0
7	ZL	72	MEN	1	0
7	TL	72	MEN	1	0
5	F7	72	MEN	3	0
7	FL	72	MEN	1	0
7	C5	72	MEN	4	0
7	IJ	72	MEN	1	0
7	I5	72	MEN	6	0
5	N7	72	MEN	5	0
21	DP	71	MEN	1	0
21	OP	71	MEN	1	0
7	L8	72	MEN	4	0
7	B5	72	MEN	5	0
7	C8	72	MEN	4	0
5	LI	72	MEN	3	0
7	G8	72	MEN	4	0
7	pL	72	MEN	1	0
7	rL	72	MEN	1	0
7	LJ	72	MEN	1	0
21	SP	71	MEN	1	0
21	oP	71	MEN	1	0
7	tL	72	MEN	1	0
21	FP	71	MEN	3	0
21	BP	71	MEN	2	0
7	fL	72	MEN	1	0
7	LL	72	MEN	1	0
21	fP	71	MEN	1	0
21	hP	71	MEN	6	0
7	dJ	72	MEN	1	0
7	L5	72	MEN	4	0
7	DL	72	MEN	1	0
7	G5	72	MEN	4	0
21	QP	71	MEN	1	0
7	hL	72	MEN	1	0
7	NR	72	MEN	2	0
5	F9	72	MEN	3	0
7	FJ	72	MEN	1	0

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

1462 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
29	PEB	jB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	B5	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	B3	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	kJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	O1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	fB	202	-	43,46,46	3.33	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	aM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
31	CYC	TP	1001	-	42,46,46	3.39	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	GJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	O2	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.54	18 (40%)
31	CYC	fP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.09	21 (42%)
31	CYC	L7	1001	5	42,46,46	3.03	15 (35%)	50,67,67	3.23	26 (52%)
29	PEB	C5	201	-	43,46,46	3.32	10 (23%)	45,67,67	2.12	14 (31%)
29	PEB	KO	202	-	43,46,46	3.61	12 (27%)	45,67,67	1.97	15 (33%)
29	PEB	BO	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	G5	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	W7	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	gF	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	nJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	JJ	201	-	43,46,46	3.33	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	ZI	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
30	PUB	BM	302	17	42,46,46	3.40	7 (16%)	37,67,67	3.33	12 (32%)
29	PEB	I8	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.21	12 (26%)
29	PEB	fB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	AL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	CO	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	F3	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
31	CYC	xP	1001	-	42,46,46	3.95	18 (42%)	50,67,67	3.57	28 (56%)
29	PEB	EC	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	J1	1002	-	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	KB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	KB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	KO	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	VF	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	HL	201	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	g1	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
31	CYC	UP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	V9	203	-	43,46,46	3.47	12 (27%)	45,67,67	2.10	14 (31%)
29	PEB	eM	201	-	43,46,46	3.35	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	KE	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.13	13 (28%)
30	PUB	MQ	404	14	42,46,46	3.70	9 (21%)	37,67,67	4.02	21 (56%)
29	PEB	uL	202	-	43,46,46	2.93	9 (20%)	45,67,67	2.32	15 (33%)
30	PUB	AI	303	-	42,46,46	3.29	7 (16%)	37,67,67	3.30	14 (37%)
29	PEB	a1	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	kM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
31	CYC	FF	1001	5	42,46,46	3.19	15 (35%)	50,67,67	3.02	22 (44%)
29	PEB	CJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	FK	1002	5	43,46,46	3.43	13 (30%)	45,67,67	2.35	17 (37%)
29	PEB	KL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	cK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	R1	203	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	rJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	mK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	gB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	BL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	FM	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	F4	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	D4	202	-	43,46,46	3.12	10 (23%)	45,67,67	2.39	20 (44%)
29	PEB	kF	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	BM	301	-	43,46,46	3.38	11 (25%)	45,67,67	2.41	17 (37%)
31	CYC	jP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.10	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	NB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	fF	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	K8	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.13	14 (31%)
29	PEB	OM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	V1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	R2	203	7	43,46,46	3.41	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	EB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	IJ	203	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	ZL	203	-	43,46,46	3.42	10 (23%)	45,67,67	2.00	12 (26%)
29	PEB	ZK	203	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	KD	203	-	43,46,46	3.30	10 (23%)	45,67,67	2.62	18 (40%)
29	PEB	Q2	202	-	43,46,46	3.60	12 (27%)	45,67,67	2.05	15 (33%)
29	PEB	gI	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	NL	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	16 (35%)
29	PEB	V7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	O2	202	-	43,46,46	3.61	12 (27%)	45,67,67	2.05	15 (33%)
29	PEB	gM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	B8	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	rL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	AK	301	-	43,46,46	3.25	10 (23%)	45,67,67	2.13	15 (33%)
29	PEB	f9	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	hM	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	nJ	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	JL	201	-	43,46,46	3.33	8 (18%)	45,67,67	2.99	15 (33%)
31	CYC	LK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
29	PEB	nL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	g7	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	HF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.10	16 (35%)
29	PEB	VK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	T2	203	7	43,46,46	3.41	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	pJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	HK	1002	-	43,46,46	3.44	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	GD	203	7	43,46,46	3.30	10 (23%)	45,67,67	2.63	18 (40%)
29	PEB	sJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	CG	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
30	PUB	yL	303	-	42,46,46	3.51	7 (16%)	37,67,67	3.28	16 (43%)
29	PEB	AQ	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	15 (33%)
31	CYC	gP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	DC	201	-	43,46,46	3.55	12 (27%)	45,67,67	2.17	16 (35%)
29	PEB	C3	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.16	16 (35%)
29	PEB	V2	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.35	14 (31%)
31	CYC	J9	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	25 (50%)
29	PEB	JA	203	-	43,46,46	3.29	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	m9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	Y7	203	-	43,46,46	3.49	12 (27%)	45,67,67	2.11	14 (31%)
29	PEB	K3	202	-	43,46,46	3.61	12 (27%)	45,67,67	1.97	15 (33%)
29	PEB	DQ	203	-	43,46,46	3.45	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	V2	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	T9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
31	CYC	EP	1001	-	42,46,46	3.39	14 (33%)	50,67,67	3.10	22 (44%)
29	PEB	RB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	UF	203	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
31	CYC	MF	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.80	18 (36%)
31	CYC	hP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	AJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	CC	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	eL	202	-	43,46,46	3.28	9 (20%)	45,67,67	2.12	13 (28%)
29	PEB	M4	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	eK	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	NM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	KE	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	TK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	S9	202	-	43,46,46	3.22	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	II	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.24	19 (42%)
29	PEB	BN	203	-	43,46,46	3.29	9 (20%)	45,67,67	2.07	15 (33%)
31	CYC	pP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	H5	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	AJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	EM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	GM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	FJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	e9	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	EL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	lB	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	P9	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	eF	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
31	CYC	DP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	DB	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	S9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	M3	203	-	43,46,46	3.23	11 (25%)	45,67,67	2.14	14 (31%)
29	PEB	HE	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	JL	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
31	CYC	D1	1001	-	42,46,46	3.21	13 (30%)	50,67,67	3.01	24 (48%)
29	PEB	W1	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	wJ	303	-	43,46,46	3.44	12 (27%)	45,67,67	2.28	18 (40%)
29	PEB	d1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	17 (37%)
29	PEB	BD	202	-	43,46,46	3.15	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	jI	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	jM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	h9	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
31	CYC	J7	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	F5	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	VI	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	HE	201	-	43,46,46	3.56	12 (27%)	45,67,67	2.17	16 (35%)
29	PEB	e7	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	i1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	UJ	201	6	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	wL	301	-	43,46,46	3.18	10 (23%)	45,67,67	2.54	17 (37%)
29	PEB	DD	201	-	43,46,46	3.11	13 (30%)	45,67,67	2.72	21 (46%)
29	PEB	ZM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	l1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	IO	201	-	43,46,46	3.28	11 (25%)	45,67,67	2.17	17 (37%)
31	CYC	wP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	NK	1002	-	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	R9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	PM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	F9	1002	-	43,46,46	3.23	10 (23%)	45,67,67	2.21	17 (37%)
29	PEB	bI	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	H8	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	jF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	TJ	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	MG	401	-	43,46,46	3.11	11 (25%)	45,67,67	2.44	14 (31%)
29	PEB	JQ	203	-	43,46,46	3.46	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	xL	303	-	43,46,46	3.43	10 (23%)	45,67,67	2.28	18 (40%)
29	PEB	ZB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	KN	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.90	20 (44%)
29	PEB	h7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	eR	401	-	43,46,46	1.07	2 (4%)	45,67,67	1.02	2 (4%)
29	PEB	ZB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	bK	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	PR	201	-	43,46,46	3.04	8 (18%)	45,67,67	2.47	18 (40%)
29	PEB	j7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	J3	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	mM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	eM	202	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	mB	201	-	43,46,46	3.36	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	JN	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	DJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	k1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	L7	1002	-	43,46,46	3.24	11 (25%)	45,67,67	2.21	17 (37%)
29	PEB	AB	301	-	43,46,46	3.29	11 (25%)	45,67,67	2.34	19 (42%)
29	PEB	X2	201	-	43,46,46	3.03	8 (18%)	45,67,67	2.48	17 (37%)
29	PEB	DQ	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	16 (35%)
30	PUB	AM	305	-	42,46,46	3.40	7 (16%)	37,67,67	3.00	15 (40%)
29	PEB	DQ	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.07	16 (35%)
29	PEB	m1	202	-	43,46,46	3.38	9 (20%)	45,67,67	2.01	15 (33%)
29	PEB	VL	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	bJ	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	WJ	201	-	43,46,46	3.09	10 (23%)	45,67,67	2.84	14 (31%)
29	PEB	bJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	LQ	202	-	43,46,46	3.44	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	kK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	LQ	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
30	PUB	MG	403	-	42,46,46	3.55	8 (19%)	37,67,67	3.60	19 (51%)
29	PEB	fK	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	15 (33%)
29	PEB	jK	201	-	43,46,46	3.20	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	A3	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.16	17 (37%)
31	CYC	C1	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	LC	201	-	43,46,46	3.55	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	uJ	201	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	AC	202	-	43,46,46	3.42	10 (23%)	45,67,67	2.14	13 (28%)
29	PEB	mF	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	DO	202	-	43,46,46	3.41	11 (25%)	45,67,67	2.10	13 (28%)
29	PEB	H3	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	ZK	201	-	43,46,46	3.08	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	B8	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	mF	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	21 (46%)
29	PEB	LN	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	cI	201	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	F5	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	b9	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	LN	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	H1	1002	-	43,46,46	3.44	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	FD	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	SI	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	BA	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.35	20 (44%)
31	CYC	I7	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	m7	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	EN	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.89	20 (44%)
29	PEB	R1	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.58	15 (33%)
29	PEB	eI	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	lJ	202	-	43,46,46	3.10	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	I3	202	-	43,46,46	3.62	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	EA	201	-	43,46,46	3.04	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	VM	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	LB	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	iB	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	MR	202	-	43,46,46	3.44	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	DL	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	OF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	CG	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.06	14 (31%)
29	PEB	hJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	AO	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.16	17 (37%)
31	CYC	G7	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	DF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
30	PUB	xJ	305	-	42,46,46	3.28	8 (19%)	37,67,67	3.74	15 (40%)
29	PEB	B3	202	-	43,46,46	3.54	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	fJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	jL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.98	15 (33%)
29	PEB	dJ	201	-	43,46,46	3.32	9 (20%)	45,67,67	2.99	15 (33%)
29	PEB	aB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	Y1	202	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
31	CYC	D1	1003	4	42,46,46	3.09	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	U9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	NM	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	mK	202	-	43,46,46	3.38	9 (20%)	45,67,67	2.01	15 (33%)
29	PEB	j1	201	-	43,46,46	3.20	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	j9	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	l9	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	hL	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	TB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	D3	201	-	43,46,46	3.43	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	PF	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	21 (46%)
29	PEB	T1	202	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	MD	202	-	43,46,46	3.07	10 (23%)	45,67,67	2.58	15 (33%)
29	PEB	D7	1002	-	43,46,46	3.23	10 (23%)	45,67,67	2.21	17 (37%)
29	PEB	T1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	SB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	R7	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	RL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	CD	203	-	43,46,46	3.29	10 (23%)	45,67,67	2.60	18 (40%)
29	PEB	I5	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.09	17 (37%)
29	PEB	FJ	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	kL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
31	CYC	1P	1002	-	42,46,46	3.42	13 (30%)	50,67,67	2.93	19 (38%)
29	PEB	oL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	hL	201	-	43,46,46	3.31	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	BG	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	LI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	NO	203	-	43,46,46	3.23	11 (25%)	45,67,67	2.13	14 (31%)
29	PEB	A7	304	-	43,46,46	3.30	9 (20%)	45,67,67	2.23	14 (31%)
29	PEB	N9	1002	-	43,46,46	3.23	10 (23%)	45,67,67	2.21	16 (35%)
29	PEB	JM	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	zJ	501	7	43,46,46	3.38	9 (20%)	45,67,67	2.03	14 (31%)
29	PEB	NJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	16 (35%)
29	PEB	pJ	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	Y9	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	L4	201	-	43,46,46	3.13	13 (30%)	45,67,67	2.72	21 (46%)
29	PEB	AK	303	-	43,46,46	3.24	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	gK	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	JO	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	IO	202	-	43,46,46	3.62	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	i7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	AM	302	-	43,46,46	3.35	8 (18%)	45,67,67	2.01	13 (28%)
29	PEB	MG	405	-	43,46,46	3.11	10 (23%)	45,67,67	2.98	17 (37%)
29	PEB	iK	202	-	43,46,46	3.10	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	HM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	L9	1002	-	43,46,46	3.24	10 (23%)	45,67,67	2.21	16 (35%)
29	PEB	T2	202	-	43,46,46	3.04	8 (18%)	45,67,67	2.47	17 (37%)
29	PEB	g7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
31	CYC	uP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	OB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	J4	201	-	43,46,46	3.11	14 (32%)	45,67,67	2.72	21 (46%)
29	PEB	AF	301	-	43,46,46	3.23	10 (23%)	45,67,67	2.14	13 (28%)
30	PUB	A7	303	-	42,46,46	3.34	7 (16%)	37,67,67	3.09	14 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	c1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	R2	201	-	43,46,46	3.37	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	IG	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	Q1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	TM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	P7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	fl	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	jJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.98	12 (26%)
29	PEB	f1	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	15 (33%)
31	CYC	PP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.12	22 (44%)
29	PEB	cL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	f7	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
31	CYC	IK	1001	4	42,46,46	3.10	14 (33%)	50,67,67	2.78	18 (36%)
29	PEB	GB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	CL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
31	CYC	NF	1001	5	42,46,46	3.21	15 (35%)	50,67,67	3.03	21 (42%)
29	PEB	b7	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	L3	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.07	14 (31%)
29	PEB	A9	304	-	43,46,46	3.30	10 (23%)	45,67,67	2.23	14 (31%)
31	CYC	II	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.80	18 (36%)
29	PEB	PL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	XJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	MQ	402	-	43,46,46	3.28	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	Z1	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	FB	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	I4	203	7	43,46,46	3.39	10 (23%)	45,67,67	2.39	15 (33%)
29	PEB	KN	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	MJ	202	-	43,46,46	3.28	9 (20%)	45,67,67	2.13	13 (28%)
29	PEB	FL	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	YI	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	FQ	203	-	43,46,46	3.46	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	oJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	CL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	A8	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.13	14 (31%)
29	PEB	S2	201	-	43,46,46	3.45	11 (25%)	45,67,67	2.17	14 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	G8	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	b9	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	E4	201	-	43,46,46	3.17	10 (23%)	45,67,67	2.23	20 (44%)
29	PEB	G8	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	HO	202	-	43,46,46	3.53	13 (30%)	45,67,67	2.12	15 (33%)
29	PEB	NO	201	-	43,46,46	3.31	9 (20%)	45,67,67	2.29	15 (33%)
29	PEB	U2	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.55	18 (40%)
29	PEB	SL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
31	CYC	E9	1001	-	42,46,46	3.14	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	B8	203	-	43,46,46	3.35	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	BN	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	VM	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	BN	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.35	20 (44%)
30	PUB	xL	304	-	42,46,46	3.36	7 (16%)	37,67,67	3.30	16 (43%)
29	PEB	BL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
31	CYC	M1	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	WR	202	-	43,46,46	3.60	12 (27%)	45,67,67	2.06	15 (33%)
29	PEB	JI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.12	16 (35%)
29	PEB	I3	203	-	43,46,46	3.54	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	HG	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	hJ	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	cM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	tL	201	-	43,46,46	3.33	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	mI	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	MM	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	xL	301	-	43,46,46	3.18	10 (23%)	45,67,67	2.56	17 (37%)
29	PEB	OF	203	-	43,46,46	3.15	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	pJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	IM	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	AI	305	-	43,46,46	3.26	8 (18%)	45,67,67	1.98	13 (28%)
29	PEB	HC	201	-	43,46,46	3.56	12 (27%)	45,67,67	2.17	16 (35%)
29	PEB	QJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	RK	203	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	VR	202	-	43,46,46	3.03	8 (18%)	45,67,67	2.48	17 (37%)
29	PEB	KQ	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	UK	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
31	CYC	YP	1000	-	42,46,46	3.41	13 (30%)	50,67,67	2.92	19 (38%)
29	PEB	OR	202	6	43,46,46	3.39	10 (23%)	45,67,67	2.20	16 (35%)
29	PEB	S7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	R7	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	j1	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	TF	202	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	l9	202	-	43,46,46	3.21	9 (20%)	45,67,67	2.07	13 (28%)
29	PEB	dL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	UF	201	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	Y7	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	IM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	LC	202	-	43,46,46	3.26	11 (25%)	45,67,67	2.43	16 (35%)
29	PEB	KG	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	14 (31%)
29	PEB	iM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	e7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
31	CYC	WP	1001	-	42,46,46	3.50	15 (35%)	50,67,67	2.92	20 (40%)
29	PEB	DA	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.35	20 (44%)
30	PUB	QB	201	-	42,46,46	3.60	8 (19%)	37,67,67	3.06	14 (37%)
29	PEB	cI	202	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	N3	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.24	13 (28%)
29	PEB	UK	203	-	43,46,46	3.24	10 (23%)	45,67,67	2.61	14 (31%)
29	PEB	JB	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	mB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	GO	202	-	43,46,46	3.62	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	NF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
30	PUB	xL	305	-	42,46,46	3.29	8 (19%)	37,67,67	3.75	15 (40%)
29	PEB	Z9	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	MG	404	-	43,46,46	3.22	10 (23%)	45,67,67	2.49	20 (44%)
29	PEB	xL	302	-	43,46,46	3.42	12 (27%)	45,67,67	2.26	19 (42%)
29	PEB	P9	203	-	43,46,46	3.47	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	KG	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
31	CYC	CI	1001	4	42,46,46	3.08	13 (30%)	50,67,67	2.81	18 (36%)
29	PEB	LM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	bF	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	H5	202	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	13 (28%)
31	CYC	KI	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.81	18 (36%)
31	CYC	JI	1001	5	42,46,46	3.19	14 (33%)	50,67,67	3.02	21 (42%)
29	PEB	ID	202	-	43,46,46	3.07	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	eF	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.60	14 (31%)
30	PUB	MQ	405	-	42,46,46	3.56	8 (19%)	37,67,67	3.60	19 (51%)
29	PEB	b1	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	OL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	b1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
31	CYC	MK	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	BQ	201	29	43,46,46	3.28	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	SK	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	dJ	202	-	43,46,46	3.10	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	H3	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	bL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	ZM	203	7	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	kB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
30	PUB	AF	303	-	42,46,46	3.29	7 (16%)	37,67,67	3.30	14 (37%)
29	PEB	aK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	U9	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
31	CYC	I9	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	AG	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	iF	201	-	43,46,46	3.32	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	YF	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	C4	203	-	43,46,46	3.28	10 (23%)	45,67,67	2.61	18 (40%)
29	PEB	sJ	203	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	RI	202	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	DC	202	-	43,46,46	3.43	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	GL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	G4	201	-	43,46,46	3.16	10 (23%)	45,67,67	2.21	20 (44%)
29	PEB	kI	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	LB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	Q7	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	fI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	rL	201	-	43,46,46	3.30	9 (20%)	45,67,67	2.98	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
31	CYC	DK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	3.00	24 (48%)
29	PEB	lK	202	-	43,46,46	3.25	10 (23%)	45,67,67	2.61	15 (33%)
31	CYC	SP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	mI	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	21 (46%)
29	PEB	mJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	OK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	fJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.98	12 (26%)
29	PEB	OJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	IL	203	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	W2	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.54	18 (40%)
29	PEB	PK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	TJ	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	JE	202	-	43,46,46	3.44	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	L3	202	-	43,46,46	3.41	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	LA	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	GL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	Z1	203	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	QR	202	-	43,46,46	3.60	12 (27%)	45,67,67	2.05	15 (33%)
29	PEB	XL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	Q7	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	eJ	202	-	43,46,46	3.28	9 (20%)	45,67,67	2.12	13 (28%)
29	PEB	K4	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	UM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	AI	304	-	43,46,46	3.29	10 (23%)	45,67,67	2.25	15 (33%)
29	PEB	K4	201	-	43,46,46	3.16	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	Z7	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	k9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	qJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	PF	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	ZF	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	CJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	A5	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.20	12 (26%)
29	PEB	GQ	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	JG	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	G8	203	-	43,46,46	3.33	10 (23%)	45,67,67	1.90	12 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	RL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	RM	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	iM	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	DG	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.07	16 (35%)
29	PEB	iM	201	7	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	P2	202	7	43,46,46	3.42	10 (23%)	45,67,67	2.20	16 (35%)
31	CYC	KF	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.81	18 (36%)
29	PEB	SF	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	QF	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	qJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	BJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	IJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	EQ	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	RR	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	NJ	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	HB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
31	CYC	G9	1001	-	42,46,46	3.14	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	DO	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	cL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	SF	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
31	CYC	qP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	Z1	201	-	43,46,46	3.08	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	L8	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	SJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
31	CYC	mP	1001	-	42,46,46	3.39	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	MA	404	-	43,46,46	3.14	12 (27%)	45,67,67	2.49	13 (28%)
29	PEB	N2	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.20	16 (35%)
29	PEB	IJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	N1	1002	-	43,46,46	3.41	13 (30%)	45,67,67	2.33	18 (40%)
29	PEB	IC	201	-	43,46,46	3.44	11 (25%)	45,67,67	2.07	15 (33%)
29	PEB	gF	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
30	PUB	yJ	303	-	42,46,46	3.50	7 (16%)	37,67,67	3.28	16 (43%)
29	PEB	IL	202	-	43,46,46	3.10	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	WB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	HM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	F3	201	-	43,46,46	3.44	11 (25%)	45,67,67	2.08	16 (35%)
29	PEB	aL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
31	CYC	FK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	3.00	24 (48%)
29	PEB	AB	302	-	43,46,46	3.34	8 (18%)	45,67,67	2.01	13 (28%)
29	PEB	RJ	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	D1	1002	5	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
30	PUB	BB	302	17	42,46,46	3.40	7 (16%)	37,67,67	3.33	12 (32%)
29	PEB	DA	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.25	16 (35%)
29	PEB	gM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	U1	203	-	43,46,46	3.24	10 (23%)	45,67,67	2.61	14 (31%)
29	PEB	WB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	aJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	N3	203	-	43,46,46	3.23	10 (23%)	45,67,67	2.14	14 (31%)
29	PEB	S2	202	-	43,46,46	3.61	12 (27%)	45,67,67	2.05	15 (33%)
29	PEB	DE	202	-	43,46,46	3.43	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	H4	202	-	43,46,46	3.11	10 (23%)	45,67,67	2.39	19 (42%)
29	PEB	f7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	MM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	FM	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	AN	201	-	43,46,46	3.05	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	TR	202	-	43,46,46	3.04	8 (18%)	45,67,67	2.47	17 (37%)
29	PEB	TL	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	QL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	CQ	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.06	14 (31%)
29	PEB	RJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
31	CYC	K9	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.81	21 (42%)
29	PEB	QK	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	15 (33%)
29	PEB	hB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	FA	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.27	16 (35%)
29	PEB	QK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	KD	202	-	43,46,46	3.05	11 (25%)	45,67,67	2.59	16 (35%)
29	PEB	YB	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	PB	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	ID	203	7	43,46,46	3.29	10 (23%)	45,67,67	2.62	18 (40%)
29	PEB	BB	301	-	43,46,46	3.38	11 (25%)	45,67,67	2.41	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
31	CYC	C7	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.81	21 (42%)
29	PEB	MO	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.24	13 (28%)
29	PEB	TR	201	7	43,46,46	3.37	12 (27%)	45,67,67	2.36	14 (31%)
29	PEB	C5	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.21	12 (26%)
29	PEB	wJ	301	-	43,46,46	3.17	10 (23%)	45,67,67	2.54	17 (37%)
29	PEB	WL	202	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	MO	201	-	43,46,46	3.31	9 (20%)	45,67,67	2.29	15 (33%)
29	PEB	dJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	QR	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.54	18 (40%)
31	CYC	F7	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
32	PMS	k6	301	-	11,11,11	0.83	1 (9%)	14,15,15	0.65	0
29	PEB	FG	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	16 (35%)
29	PEB	J8	201	-	43,46,46	3.37	11 (25%)	45,67,67	2.77	16 (35%)
29	PEB	dD	401	-	43,46,46	3.17	10 (23%)	45,67,67	2.23	20 (44%)
29	PEB	XM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	F4	201	-	43,46,46	3.14	13 (30%)	45,67,67	2.73	21 (46%)
29	PEB	LF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	O7	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	W9	202	6	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	V1	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
31	CYC	D7	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	FO	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	l1	202	-	43,46,46	3.25	10 (23%)	45,67,67	2.61	15 (33%)
29	PEB	e7	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	EG	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.05	13 (28%)
29	PEB	GD	201	-	43,46,46	3.17	10 (23%)	45,67,67	2.21	20 (44%)
29	PEB	EG	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	m9	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	HI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.10	16 (35%)
29	PEB	R9	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	aB	203	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	O9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	W2	202	-	43,46,46	3.62	12 (27%)	45,67,67	2.05	15 (33%)
29	PEB	MB	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	fL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.98	12 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	ZJ	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	EN	201	-	43,46,46	3.04	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	c1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	NI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	PR	202	7	43,46,46	3.41	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	j7	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	HA	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	K4	203	7	43,46,46	3.29	10 (23%)	45,67,67	2.62	18 (40%)
29	PEB	J5	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	16 (35%)
31	CYC	JK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
29	PEB	FC	201	-	43,46,46	3.57	12 (27%)	45,67,67	2.18	16 (35%)
29	PEB	HN	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	EL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	tJ	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	KJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	vJ	201	-	43,46,46	3.33	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	OM	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	16 (35%)
29	PEB	VL	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	ML	202	-	43,46,46	3.28	9 (20%)	45,67,67	2.13	13 (28%)
29	PEB	c9	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	IJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	JB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	V1	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	CD	201	-	43,46,46	3.15	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	FQ	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)
31	CYC	NK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	3.00	24 (48%)
29	PEB	OI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	DD	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.39	20 (44%)
30	PUB	wJ	304	-	42,46,46	3.35	7 (16%)	37,67,67	3.30	16 (43%)
29	PEB	c9	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	CQ	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	dF	201	-	43,46,46	3.13	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	BC	201	-	43,46,46	3.56	11 (25%)	45,67,67	2.18	16 (35%)
29	PEB	PM	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	a7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	I8	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.12	14 (31%)
31	CYC	M7	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	H8	202	-	43,46,46	3.25	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	DB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	iK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	WM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	PJ	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	H8	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	G5	203	-	43,46,46	3.34	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	aF	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	MQ	401	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	hK	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	BD	201	-	43,46,46	3.13	14 (32%)	45,67,67	2.73	21 (46%)
29	PEB	WK	201	-	43,46,46	3.20	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	YB	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	yL	301	-	43,46,46	3.29	10 (23%)	45,67,67	2.21	16 (35%)
29	PEB	bL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	cJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	JA	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	VK	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	AN	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.89	20 (44%)
29	PEB	sL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	NR	202	-	43,46,46	3.03	8 (18%)	45,67,67	2.48	18 (40%)
29	PEB	JA	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	WF	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
31	CYC	KP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	hK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	17 (37%)
31	CYC	F1	1001	-	42,46,46	3.21	13 (30%)	50,67,67	3.00	24 (48%)
29	PEB	LA	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	S1	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	lM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	qL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	sL	203	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
31	CYC	kP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	jJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.98	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
30	PUB	wJ	305	-	42,46,46	3.29	8 (19%)	37,67,67	3.74	15 (40%)
29	PEB	SB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	E3	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	AJ	203	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	BO	201	-	43,46,46	3.43	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	aF	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	EQ	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.05	13 (28%)
29	PEB	kL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	V9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	HO	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	kB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	xJ	302	-	43,46,46	3.42	12 (27%)	45,67,67	2.25	19 (42%)
29	PEB	i7	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
31	CYC	MI	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.80	18 (36%)
29	PEB	IO	203	-	43,46,46	3.54	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	V7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	XJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.98	15 (33%)
29	PEB	J9	1002	-	43,46,46	3.25	10 (23%)	45,67,67	2.22	16 (35%)
29	PEB	JM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
30	PUB	A9	302	2	42,46,46	3.35	7 (16%)	37,67,67	3.17	18 (48%)
29	PEB	AE	203	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	U1	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
31	CYC	L1	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
31	CYC	1P	1001	-	42,46,46	3.28	14 (33%)	50,67,67	3.10	21 (42%)
29	PEB	JF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.12	16 (35%)
29	PEB	ZI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	AO	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	GA	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.89	21 (46%)
29	PEB	TL	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	HE	203	-	43,46,46	3.44	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	J3	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	hI	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	GD	202	-	43,46,46	3.05	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	MD	201	-	43,46,46	3.17	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	KM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
31	CYC	EI	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.81	18 (36%)
29	PEB	VJ	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
31	CYC	KK	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.78	18 (36%)
29	PEB	M3	201	-	43,46,46	3.31	9 (20%)	45,67,67	2.29	15 (33%)
29	PEB	YL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	U7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	DO	201	-	43,46,46	3.43	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	Y7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	cB	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	A9	301	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	14 (31%)
29	PEB	kJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	k7	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
31	CYC	RP	1001	-	42,46,46	3.38	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	EO	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	F8	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	dM	202	-	43,46,46	3.33	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	M4	201	-	43,46,46	3.17	10 (23%)	45,67,67	2.21	20 (44%)
29	PEB	QF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	UL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	F8	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	UL	201	6	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	R7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	UI	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	MQ	407	-	43,46,46	3.13	9 (20%)	45,67,67	2.99	17 (37%)
30	PUB	MA	403	-	42,46,46	3.46	10 (23%)	37,67,67	3.89	16 (43%)
29	PEB	QI	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	CO	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.16	16 (35%)
29	PEB	e9	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	CM	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	DN	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	IQ	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	AF	305	-	43,46,46	3.26	8 (18%)	45,67,67	1.98	13 (28%)
29	PEB	DG	203	-	43,46,46	3.47	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	UK	201	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	c7	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	YJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	I4	201	-	43,46,46	3.16	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	NO	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.25	13 (28%)
29	PEB	K5	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.13	14 (31%)
29	PEB	iI	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
30	PUB	AK	305	-	42,46,46	3.40	8 (19%)	37,67,67	4.48	16 (43%)
29	PEB	JC	202	-	43,46,46	3.44	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	AK	302	-	43,46,46	3.36	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	G4	203	7	43,46,46	3.29	10 (23%)	45,67,67	2.61	18 (40%)
29	PEB	dK	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	rJ	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	FE	203	-	43,46,46	3.43	9 (20%)	45,67,67	1.97	13 (28%)
31	CYC	XP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	JD	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.39	20 (44%)
29	PEB	C8	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.21	12 (26%)
29	PEB	jL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.98	12 (26%)
29	PEB	cK	202	-	43,46,46	3.10	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	rJ	201	-	43,46,46	3.30	9 (20%)	45,67,67	2.98	15 (33%)
31	CYC	CP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.11	22 (44%)
30	PUB	MA	402	14	42,46,46	3.43	7 (16%)	37,67,67	3.77	19 (51%)
29	PEB	cK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	EJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	BL	202	-	43,46,46	3.07	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	VR	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.20	16 (35%)
29	PEB	IB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	FF	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	XB	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	dI	201	-	43,46,46	3.13	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	L4	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	CA	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.90	20 (44%)
29	PEB	Q9	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	cM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	O9	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	c1	202	-	43,46,46	3.10	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	I3	201	-	43,46,46	3.28	11 (25%)	45,67,67	2.17	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	GE	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	B4	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	OF	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.24	19 (42%)
29	PEB	kI	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	Q1	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	15 (33%)
29	PEB	IE	201	-	43,46,46	3.44	11 (25%)	45,67,67	2.07	15 (33%)
29	PEB	JQ	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	KQ	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	14 (31%)
29	PEB	BE	203	-	43,46,46	3.44	9 (20%)	45,67,67	1.98	13 (28%)
29	PEB	JO	202	-	43,46,46	3.55	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	GC	202	-	43,46,46	3.42	10 (23%)	45,67,67	2.14	13 (28%)
31	CYC	rP	1001	-	42,46,46	3.38	14 (33%)	50,67,67	3.10	22 (44%)
29	PEB	g9	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	BG	203	-	43,46,46	3.46	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	d7	202	-	43,46,46	3.22	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	C3	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	eI	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	VK	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	KJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	PL	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
31	CYC	NI	1001	5	42,46,46	3.21	15 (35%)	50,67,67	3.03	21 (42%)
29	PEB	EE	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	C4	201	-	43,46,46	3.16	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	LK	1002	-	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	D3	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	j9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	lK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	KB	203	-	43,46,46	3.20	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	FB	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	cB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	HQ	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	dL	201	-	43,46,46	3.32	9 (20%)	45,67,67	2.99	15 (33%)
29	PEB	aI	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	J7	1002	-	43,46,46	3.24	10 (23%)	45,67,67	2.22	17 (37%)
29	PEB	hM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	VF	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	TK	202	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	V9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	KL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	e1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
31	CYC	NP	1001	-	42,46,46	3.39	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	B5	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	XR	203	7	43,46,46	3.42	10 (23%)	45,67,67	2.19	16 (35%)
31	CYC	I1	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	KA	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.90	20 (44%)
29	PEB	jI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	JE	201	-	43,46,46	3.55	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	JQ	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	HN	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.35	20 (44%)
29	PEB	kF	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	a7	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	RB	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	HB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	K8	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.20	12 (26%)
29	PEB	A3	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	V7	203	-	43,46,46	3.47	12 (27%)	45,67,67	2.10	14 (31%)
29	PEB	i1	202	-	43,46,46	3.10	9 (20%)	45,67,67	2.59	15 (33%)
29	PEB	NL	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	M3	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.24	13 (28%)
29	PEB	iB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	QI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	lF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
30	PUB	A9	303	-	42,46,46	3.34	7 (16%)	37,67,67	3.09	14 (37%)
29	PEB	GN	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.89	21 (46%)
29	PEB	nJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
31	CYC	J1	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
31	CYC	N7	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	I8	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.09	17 (37%)
29	PEB	DL	202	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	MA	401	-	43,46,46	3.16	9 (20%)	45,67,67	2.86	14 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	i9	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	E4	203	-	43,46,46	3.30	10 (23%)	45,67,67	2.63	18 (40%)
29	PEB	PK	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	AQ	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	RK	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.58	15 (33%)
29	PEB	V2	202	-	43,46,46	3.03	8 (18%)	45,67,67	2.48	18 (40%)
29	PEB	MN	404	-	43,46,46	3.15	12 (27%)	45,67,67	2.49	13 (28%)
29	PEB	UF	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	VF	201	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	K5	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.20	12 (26%)
29	PEB	Z7	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	VJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	M4	203	7	43,46,46	3.41	9 (20%)	45,67,67	2.28	14 (31%)
32	PMS	k6	302	-	11,11,11	1.23	1 (9%)	14,15,15	1.08	1 (7%)
29	PEB	AF	304	-	43,46,46	3.29	10 (23%)	45,67,67	2.25	15 (33%)
29	PEB	RJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	mM	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	U1	201	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	UI	201	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
31	CYC	HF	1001	5	42,46,46	3.20	15 (35%)	50,67,67	3.02	22 (44%)
31	CYC	tP	1001	-	42,46,46	3.38	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	lB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	lI	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	L8	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.89	12 (26%)
29	PEB	M2	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.55	18 (40%)
29	PEB	uJ	202	-	43,46,46	2.93	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	HA	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.35	20 (44%)
29	PEB	xJ	303	-	43,46,46	3.43	11 (25%)	45,67,67	2.27	18 (40%)
29	PEB	hI	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	IB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
30	PUB	AF	302	-	42,46,46	3.54	8 (19%)	37,67,67	3.18	15 (40%)
29	PEB	P9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	WR	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.54	18 (40%)
29	PEB	AC	201	-	43,46,46	3.45	9 (20%)	45,67,67	2.08	15 (33%)
29	PEB	pL	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	C4	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	15 (33%)
29	PEB	e9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	VI	201	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	m9	203	-	43,46,46	3.50	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	A5	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.13	14 (31%)
29	PEB	LG	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	OK	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
30	PUB	A7	302	2	42,46,46	3.35	7 (16%)	37,67,67	3.17	18 (48%)
29	PEB	T7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	uJ	203	-	43,46,46	3.29	9 (20%)	45,67,67	2.13	13 (28%)
29	PEB	gF	202	-	43,46,46	3.15	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	T7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	TJ	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	CM	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	iL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	h9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	dL	202	-	43,46,46	3.10	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	fM	202	-	43,46,46	3.33	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	GJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	hF	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	ZB	203	7	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	vL	201	-	43,46,46	3.33	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	KE	202	-	43,46,46	3.44	11 (25%)	45,67,67	2.07	15 (33%)
29	PEB	c7	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
30	PUB	wL	305	-	42,46,46	3.28	7 (16%)	37,67,67	3.74	15 (40%)
29	PEB	PF	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	gK	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	KM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	A7	301	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	14 (31%)
29	PEB	KC	202	-	43,46,46	3.44	11 (25%)	45,67,67	2.07	15 (33%)
29	PEB	eK	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	YM	203	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	YL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	HO	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	YF	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.15	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	ZJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	c9	203	-	43,46,46	3.49	12 (27%)	45,67,67	2.11	14 (31%)
29	PEB	LJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	DM	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	X2	202	7	43,46,46	3.42	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	l7	202	-	43,46,46	3.21	9 (20%)	45,67,67	2.07	13 (28%)
29	PEB	IN	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.90	20 (44%)
29	PEB	OI	203	-	43,46,46	3.15	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	FL	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	UB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	RM	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	SJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	UB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	MN	401	-	43,46,46	3.16	9 (20%)	45,67,67	2.86	14 (31%)
29	PEB	LE	201	-	43,46,46	3.55	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	RR	202	-	43,46,46	3.03	8 (18%)	45,67,67	2.47	17 (37%)
29	PEB	AC	203	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	FD	201	-	43,46,46	3.13	14 (32%)	45,67,67	2.72	21 (46%)
29	PEB	J8	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.17	16 (35%)
31	CYC	OP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	jF	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	MA	405	-	43,46,46	3.20	12 (27%)	45,67,67	2.60	16 (35%)
29	PEB	ZK	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
31	CYC	cP	1001	-	42,46,46	3.39	15 (35%)	50,67,67	3.10	22 (44%)
29	PEB	lJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	WI	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	iB	201	7	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	eI	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	MR	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.55	18 (40%)
29	PEB	BA	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	PL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	k9	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	MQ	406	29	43,46,46	3.22	10 (23%)	45,67,67	2.48	20 (44%)
29	PEB	FA	201	-	43,46,46	3.23	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	EA	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.89	20 (44%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	aM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	WI	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	AA	201	-	43,46,46	3.05	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	IQ	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	P7	203	-	43,46,46	3.47	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	aB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	iF	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	WL	201	-	43,46,46	3.09	10 (23%)	45,67,67	2.84	14 (31%)
29	PEB	HD	202	-	43,46,46	3.12	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	SM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	IL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
31	CYC	DI	1001	5	42,46,46	3.20	14 (33%)	50,67,67	3.02	21 (42%)
29	PEB	K3	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	e2	402	-	43,46,46	3.38	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	g9	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	QJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	HM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
31	CYC	MP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	JC	201	-	43,46,46	3.55	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	FI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	k7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	dK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	17 (37%)
31	CYC	iP	1001	-	42,46,46	3.39	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	JG	203	-	43,46,46	3.47	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	B3	201	-	43,46,46	3.43	11 (25%)	45,67,67	2.08	15 (33%)
29	PEB	TB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	FC	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	16 (35%)
29	PEB	aL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	d9	202	-	43,46,46	3.22	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	K5	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.10	15 (33%)
29	PEB	VB	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	QM	204	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	FN	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	WJ	203	-	43,46,46	3.29	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	N7	1002	-	43,46,46	3.23	10 (23%)	45,67,67	2.21	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	gB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	MD	203	7	43,46,46	3.30	10 (23%)	45,67,67	2.63	18 (40%)
29	PEB	QM	203	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	HG	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	oL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
31	CYC	IP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	a7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	RL	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	dB	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	SK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	CB	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	BJ	202	-	43,46,46	3.07	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	LM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
31	CYC	AP	1001	-	42,46,46	3.37	15 (35%)	50,67,67	3.12	22 (44%)
29	PEB	eK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	gB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	aK	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	FQ	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	16 (35%)
29	PEB	O1	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
31	CYC	IP	1001	-	42,46,46	3.37	14 (33%)	50,67,67	3.11	22 (44%)
29	PEB	EE	202	-	43,46,46	3.41	11 (25%)	45,67,67	2.13	13 (28%)
29	PEB	NJ	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
31	CYC	DF	1001	5	42,46,46	3.20	14 (33%)	50,67,67	3.02	21 (42%)
29	PEB	e1	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	hB	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	ZL	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	15 (33%)
31	CYC	E1	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	LD	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	Y9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	KD	201	-	43,46,46	3.15	10 (23%)	45,67,67	2.21	20 (44%)
30	PUB	MN	403	-	42,46,46	3.46	10 (23%)	37,67,67	3.90	16 (43%)
29	PEB	PB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	aK	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
31	CYC	EF	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.81	18 (36%)
29	PEB	mJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	N2	202	-	43,46,46	3.02	8 (18%)	45,67,67	2.48	18 (40%)
29	PEB	g7	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	IG	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	N2	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.36	14 (31%)
29	PEB	m7	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	WM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	d1	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	S7	202	-	43,46,46	3.22	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	JJ	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	i9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
30	PUB	A1	304	-	42,46,46	3.54	8 (19%)	37,67,67	3.22	16 (43%)
29	PEB	lL	201	-	43,46,46	3.32	8 (18%)	45,67,67	3.00	15 (33%)
29	PEB	nL	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	EB	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	g1	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	G5	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	R2	202	-	43,46,46	3.03	8 (18%)	45,67,67	2.46	17 (37%)
29	PEB	WK	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	TM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	G4	202	-	43,46,46	3.05	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	ZM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	RB	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	mI	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	H7	1002	-	43,46,46	3.22	10 (23%)	45,67,67	2.21	17 (37%)
29	PEB	e2	401	-	43,46,46	1.07	2 (4%)	45,67,67	1.01	2 (4%)
31	CYC	GP	1001	-	42,46,46	3.38	15 (35%)	50,67,67	3.10	22 (44%)
29	PEB	AL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	BO	202	-	43,46,46	3.54	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	qL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	Y1	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	GB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	fF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	CC	202	-	43,46,46	3.41	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	GN	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
31	CYC	GF	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.80	18 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	d7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	fM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	LJ	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	iI	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	ED	202	7	43,46,46	3.31	10 (23%)	45,67,67	2.62	18 (40%)
29	PEB	uL	201	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	A7	305	-	43,46,46	3.31	10 (23%)	45,67,67	2.24	17 (37%)
31	CYC	HI	1001	5	42,46,46	3.20	15 (35%)	50,67,67	3.02	22 (44%)
29	PEB	D4	201	-	43,46,46	3.12	13 (30%)	45,67,67	2.72	21 (46%)
29	PEB	P1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	C8	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	FB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	tJ	201	-	43,46,46	3.33	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	fK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
31	CYC	K7	1001	-	42,46,46	3.14	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	wL	303	-	43,46,46	3.43	12 (27%)	45,67,67	2.28	18 (40%)
29	PEB	DJ	202	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	H9	1002	-	43,46,46	3.22	10 (23%)	45,67,67	2.21	17 (37%)
29	PEB	dF	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	ED	201	-	43,46,46	3.07	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	I5	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.20	12 (26%)
29	PEB	HG	203	-	43,46,46	3.47	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	U2	202	-	43,46,46	3.60	12 (27%)	45,67,67	2.06	15 (33%)
31	CYC	F9	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	25 (50%)
31	CYC	CK	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.78	18 (36%)
29	PEB	AI	301	-	43,46,46	3.23	10 (23%)	45,67,67	2.14	13 (28%)
29	PEB	iK	203	-	43,46,46	3.38	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	OL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	BA	203	-	43,46,46	3.29	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	R1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	iF	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	YF	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	DB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
31	CYC	EK	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.78	18 (36%)
29	PEB	I5	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.12	14 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	VR	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	aM	203	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	FN	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.27	16 (35%)
29	PEB	hF	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	16 (35%)
32	PMS	kH	302	-	11,11,11	1.23	1 (9%)	14,15,15	1.08	1 (7%)
29	PEB	CE	202	-	43,46,46	3.41	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	bL	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	iJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	CE	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	gI	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	AM	303	-	43,46,46	3.34	10 (23%)	45,67,67	2.18	14 (31%)
29	PEB	gJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	TF	201	-	43,46,46	3.41	11 (25%)	45,67,67	2.10	15 (33%)
29	PEB	HJ	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
31	CYC	HP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	L1	1002	-	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	BE	201	-	43,46,46	3.56	11 (25%)	45,67,67	2.18	16 (35%)
31	CYC	H7	1001	5	42,46,46	3.03	15 (35%)	50,67,67	3.24	26 (52%)
31	CYC	CF	1001	4	42,46,46	3.08	13 (30%)	50,67,67	2.81	18 (36%)
29	PEB	k1	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.58	15 (33%)
29	PEB	LE	202	-	43,46,46	3.26	11 (25%)	45,67,67	2.43	16 (35%)
29	PEB	aF	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	k9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	A8	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.09	17 (37%)
29	PEB	JO	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.08	15 (33%)
31	CYC	H1	1001	-	42,46,46	3.20	13 (30%)	50,67,67	2.98	24 (48%)
29	PEB	HJ	201	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	L5	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	RF	202	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	dB	202	-	43,46,46	3.33	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	RF	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	LO	201	-	43,46,46	3.42	11 (25%)	45,67,67	2.07	14 (31%)
29	PEB	a1	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	pL	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	FG	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	cM	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	hL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	S1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	K8	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	Z9	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	kF	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	PI	202	-	43,46,46	3.13	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	H5	203	-	43,46,46	3.33	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	kK	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.58	15 (33%)
29	PEB	FG	203	-	43,46,46	3.45	9 (20%)	45,67,67	2.17	16 (35%)
29	PEB	FE	201	-	43,46,46	3.57	12 (27%)	45,67,67	2.18	16 (35%)
29	PEB	jK	202	-	43,46,46	3.23	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	mF	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	i1	203	-	43,46,46	3.38	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	XR	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	VB	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	VB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	W7	202	6	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	LG	203	-	43,46,46	3.44	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	WL	203	-	43,46,46	3.29	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	BJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	cF	201	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	SR	202	-	43,46,46	3.59	12 (27%)	45,67,67	2.04	15 (33%)
29	PEB	MQ	403	-	43,46,46	3.10	12 (27%)	45,67,67	2.44	14 (31%)
29	PEB	U7	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	aJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	SR	201	-	43,46,46	3.43	11 (25%)	45,67,67	2.52	14 (31%)
29	PEB	ID	201	-	43,46,46	3.15	10 (23%)	45,67,67	2.22	20 (44%)
29	PEB	nL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	A1	302	-	43,46,46	3.36	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	HQ	203	7	43,46,46	3.47	9 (20%)	45,67,67	2.18	16 (35%)
31	CYC	FP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	kI	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	HL	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	iI	201	-	43,46,46	3.32	11 (25%)	45,67,67	2.42	21 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	gK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	15 (33%)
29	PEB	KC	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	mB	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.47	15 (33%)
31	CYC	E7	1001	-	42,46,46	3.14	14 (33%)	50,67,67	2.82	21 (42%)
29	PEB	kM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	sJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
31	CYC	JP	1001	-	42,46,46	3.38	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	fJ	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	c7	203	-	43,46,46	3.49	12 (27%)	45,67,67	2.11	14 (31%)
29	PEB	TR	203	7	43,46,46	3.41	10 (23%)	45,67,67	2.19	16 (35%)
29	PEB	NR	201	-	43,46,46	3.38	12 (27%)	45,67,67	2.36	14 (31%)
30	PUB	AB	304	-	42,46,46	3.14	9 (21%)	37,67,67	3.65	18 (48%)
29	PEB	DG	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	16 (35%)
29	PEB	NB	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	FO	201	-	43,46,46	3.44	11 (25%)	45,67,67	2.08	16 (35%)
29	PEB	WJ	202	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	LA	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	T9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	G3	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.16	17 (37%)
29	PEB	P1	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	DM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	jB	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	A5	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.09	17 (37%)
29	PEB	TI	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	MN	405	-	43,46,46	3.19	12 (27%)	45,67,67	2.60	16 (35%)
29	PEB	m1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.18	17 (37%)
29	PEB	RM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	GO	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.16	17 (37%)
29	PEB	NL	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	UR	202	-	43,46,46	3.61	12 (27%)	45,67,67	2.06	15 (33%)
29	PEB	a9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
30	PUB	QM	201	-	42,46,46	3.60	8 (19%)	37,67,67	3.06	14 (37%)
29	PEB	mL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	YJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	oJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	HB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	EJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	SM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	a9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	P1	203	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	TL	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.99	15 (33%)
30	PUB	A1	305	-	42,46,46	3.40	8 (19%)	37,67,67	4.48	16 (43%)
30	PUB	AB	305	-	42,46,46	3.41	7 (16%)	37,67,67	3.01	15 (40%)
29	PEB	L8	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.16	16 (35%)
29	PEB	TB	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	J3	202	-	43,46,46	3.55	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	PK	203	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
29	PEB	jL	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	F5	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.90	12 (26%)
29	PEB	P2	201	-	43,46,46	3.04	9 (20%)	45,67,67	2.48	17 (37%)
29	PEB	D9	1002	-	43,46,46	3.23	10 (23%)	45,67,67	2.21	17 (37%)
29	PEB	QB	203	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	iJ	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	JD	201	-	43,46,46	3.11	14 (32%)	45,67,67	2.72	21 (46%)
29	PEB	B5	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.15	16 (35%)
29	PEB	F7	1002	-	43,46,46	3.24	10 (23%)	45,67,67	2.22	17 (37%)
29	PEB	cB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	FO	202	-	43,46,46	3.53	12 (27%)	45,67,67	2.12	15 (33%)
29	PEB	ML	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	hJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	WF	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	RI	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	CA	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	IL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	BQ	203	-	43,46,46	3.45	9 (20%)	45,67,67	2.18	16 (35%)
29	PEB	QB	204	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	BE	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.42	15 (33%)
31	CYC	BP	1001	-	42,46,46	3.28	13 (30%)	50,67,67	3.09	21 (42%)
29	PEB	GM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	L5	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	YI	203	-	43,46,46	3.40	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	H4	201	-	43,46,46	3.14	14 (32%)	45,67,67	2.73	21 (46%)
29	PEB	KC	203	-	43,46,46	3.41	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	FJ	203	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	BG	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	GG	202	-	43,46,46	3.34	10 (23%)	45,67,67	2.05	13 (28%)
29	PEB	LL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
30	PUB	wL	304	-	42,46,46	3.33	7 (16%)	37,67,67	3.30	16 (43%)
29	PEB	GC	201	-	43,46,46	3.44	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	QL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	BC	203	-	43,46,46	3.44	9 (20%)	45,67,67	1.98	13 (28%)
29	PEB	UI	203	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	JN	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	vJ	202	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	YK	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.17	17 (37%)
31	CYC	yP	1001	-	42,46,46	3.49	15 (35%)	50,67,67	2.92	20 (40%)
31	CYC	GI	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.80	18 (36%)
31	CYC	QP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	jM	202	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	PI	203	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	GG	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	kK	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	FE	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	16 (35%)
29	PEB	RR	203	7	43,46,46	3.42	10 (23%)	45,67,67	2.20	16 (35%)
29	PEB	YM	202	-	43,46,46	3.27	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	eJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	JK	1002	-	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	YM	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.48	15 (33%)
29	PEB	zL	501	7	43,46,46	3.36	9 (20%)	45,67,67	2.02	14 (31%)
29	PEB	C5	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	FM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
31	CYC	N1	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
29	PEB	eB	201	-	43,46,46	3.35	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	J4	202	-	43,46,46	3.12	10 (23%)	45,67,67	2.40	20 (44%)
29	PEB	b7	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.65	19 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	yJ	301	-	43,46,46	3.29	10 (23%)	45,67,67	2.21	16 (35%)
29	PEB	EC	202	-	43,46,46	3.41	11 (25%)	45,67,67	2.13	13 (28%)
29	PEB	O7	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	HC	203	-	43,46,46	3.44	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	W9	201	-	43,46,46	3.26	11 (25%)	45,67,67	2.66	19 (42%)
29	PEB	bI	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	17 (37%)
31	CYC	HK	1001	-	42,46,46	3.21	13 (30%)	50,67,67	2.99	24 (48%)
29	PEB	KA	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	AG	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	SI	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	XM	202	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	B4	201	-	43,46,46	3.12	14 (32%)	45,67,67	2.73	21 (46%)
29	PEB	Y9	203	-	43,46,46	3.49	12 (27%)	45,67,67	2.11	14 (31%)
29	PEB	h7	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.07	13 (28%)
29	PEB	CB	201	-	43,46,46	3.26	10 (23%)	45,67,67	2.24	14 (31%)
29	PEB	MB	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	gM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	17 (37%)
29	PEB	gJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	AM	301	-	43,46,46	3.29	11 (25%)	45,67,67	2.34	19 (42%)
29	PEB	kB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	T7	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
30	PUB	AM	304	-	42,46,46	3.14	9 (21%)	37,67,67	3.65	18 (48%)
29	PEB	R9	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	PI	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.41	21 (46%)
29	PEB	kM	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
31	CYC	VP	1001	-	42,46,46	3.95	18 (42%)	50,67,67	3.57	28 (56%)
29	PEB	OJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	AL	203	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	fL	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	fL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	DN	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.25	16 (35%)
29	PEB	ZJ	203	-	43,46,46	3.42	10 (23%)	45,67,67	2.00	12 (26%)
29	PEB	J5	201	-	43,46,46	3.37	11 (25%)	45,67,67	2.77	16 (35%)
29	PEB	YI	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	vL	202	-	43,46,46	3.44	10 (23%)	45,67,67	1.99	12 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	f1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	A8	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.20	12 (26%)
29	PEB	G3	202	-	43,46,46	3.62	12 (27%)	45,67,67	1.98	15 (33%)
29	PEB	uL	203	-	43,46,46	3.29	9 (20%)	45,67,67	2.13	13 (28%)
29	PEB	A1	303	-	43,46,46	3.24	10 (23%)	45,67,67	2.08	15 (33%)
29	PEB	P7	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	LO	202	-	43,46,46	3.41	10 (23%)	45,67,67	2.09	15 (33%)
29	PEB	TI	202	-	43,46,46	3.40	10 (23%)	45,67,67	2.14	17 (37%)
30	PUB	AI	302	-	42,46,46	3.54	8 (19%)	37,67,67	3.18	15 (40%)
29	PEB	JN	203	-	43,46,46	3.29	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	GQ	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.06	15 (33%)
29	PEB	iL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
31	CYC	eP	1001	-	42,46,46	3.37	14 (33%)	50,67,67	3.10	22 (44%)
30	PUB	xJ	304	-	42,46,46	3.35	7 (16%)	37,67,67	3.30	16 (43%)
29	PEB	wL	302	-	43,46,46	3.42	12 (27%)	45,67,67	2.26	19 (42%)
29	PEB	L5	203	-	43,46,46	3.32	10 (23%)	45,67,67	1.89	12 (26%)
29	PEB	HD	201	-	43,46,46	3.13	14 (32%)	45,67,67	2.72	21 (46%)
29	PEB	RK	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
31	CYC	LI	1001	5	42,46,46	3.19	15 (35%)	50,67,67	3.03	21 (42%)
29	PEB	cF	202	-	43,46,46	3.39	10 (23%)	45,67,67	2.14	17 (37%)
29	PEB	eB	202	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)
30	PUB	MN	402	14	42,46,46	3.43	7 (16%)	37,67,67	3.76	19 (51%)
29	PEB	DM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	h1	202	-	43,46,46	3.24	10 (23%)	45,67,67	2.60	14 (31%)
29	PEB	IA	201	-	43,46,46	3.05	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	JB	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	a1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	14 (31%)
29	PEB	F1	1002	5	43,46,46	3.43	13 (30%)	45,67,67	2.35	17 (37%)
31	CYC	LF	1001	5	42,46,46	3.19	15 (35%)	50,67,67	3.03	21 (42%)
29	PEB	pL	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	XB	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.34	15 (33%)
29	PEB	MO	203	-	43,46,46	3.23	11 (25%)	45,67,67	2.14	14 (31%)
29	PEB	gL	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	UR	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.55	18 (40%)
29	PEB	JM	203	-	43,46,46	3.37	11 (25%)	45,67,67	2.40	17 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	xJ	301	-	43,46,46	3.18	10 (23%)	45,67,67	2.55	17 (37%)
31	CYC	K1	1001	4	42,46,46	3.10	13 (30%)	50,67,67	2.78	18 (36%)
29	PEB	FN	201	-	43,46,46	3.23	11 (25%)	45,67,67	2.34	20 (44%)
29	PEB	OI	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.24	19 (42%)
29	PEB	LG	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	d9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	dF	203	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
31	CYC	D9	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	CD	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	JL	203	-	43,46,46	3.41	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	h1	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.38	17 (37%)
31	CYC	L9	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.23	26 (52%)
29	PEB	AE	202	-	43,46,46	3.42	10 (23%)	45,67,67	2.14	13 (28%)
29	PEB	eF	201	-	43,46,46	3.33	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	AE	201	-	43,46,46	3.45	9 (20%)	45,67,67	2.08	15 (33%)
29	PEB	SL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	gL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.31	15 (33%)
29	PEB	g1	203	-	43,46,46	3.39	9 (20%)	45,67,67	2.01	15 (33%)
29	PEB	Q9	202	-	43,46,46	3.20	10 (23%)	45,67,67	2.07	13 (28%)
31	CYC	IF	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.80	18 (36%)
29	PEB	BC	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.42	15 (33%)
31	CYC	sP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	GA	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	T2	201	7	43,46,46	3.37	12 (27%)	45,67,67	2.35	14 (31%)
29	PEB	GE	202	-	43,46,46	3.42	10 (23%)	45,67,67	2.14	13 (28%)
29	PEB	l7	201	-	43,46,46	3.24	11 (25%)	45,67,67	2.65	19 (42%)
30	PUB	yL	302	-	42,46,46	3.35	7 (16%)	37,67,67	3.26	15 (40%)
29	PEB	IE	202	-	43,46,46	3.41	11 (25%)	45,67,67	2.13	13 (28%)
29	PEB	FC	203	-	43,46,46	3.43	9 (20%)	45,67,67	1.97	13 (28%)
29	PEB	PJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	HQ	201	-	43,46,46	3.29	10 (23%)	45,67,67	2.08	16 (35%)
29	PEB	Q2	201	-	43,46,46	3.25	10 (23%)	45,67,67	2.54	18 (40%)
29	PEB	aI	202	-	43,46,46	3.14	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	HA	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	E4	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	16 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	TM	201	-	43,46,46	3.33	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	cJ	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	IC	202	-	43,46,46	3.41	11 (25%)	45,67,67	2.13	13 (28%)
31	CYC	N9	1001	5	42,46,46	3.04	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	D3	202	-	43,46,46	3.41	9 (20%)	45,67,67	2.10	13 (28%)
29	PEB	XL	202	-	43,46,46	3.07	10 (23%)	45,67,67	2.84	14 (31%)
29	PEB	DE	201	-	43,46,46	3.55	12 (27%)	45,67,67	2.17	16 (35%)
29	PEB	k7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	j1	203	-	43,46,46	3.10	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	NR	203	-	43,46,46	3.42	10 (23%)	45,67,67	2.20	16 (35%)
29	PEB	F3	202	-	43,46,46	3.53	12 (27%)	45,67,67	2.12	15 (33%)
31	CYC	vP	1001	-	42,46,46	3.40	15 (35%)	50,67,67	3.11	22 (44%)
29	PEB	E3	201	-	43,46,46	3.27	11 (25%)	45,67,67	2.17	16 (35%)
29	PEB	dM	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	sL	202	-	43,46,46	3.29	10 (23%)	45,67,67	2.13	13 (28%)
29	PEB	i9	201	-	43,46,46	3.24	10 (23%)	45,67,67	2.15	17 (37%)
29	PEB	LE	203	-	43,46,46	3.45	9 (20%)	45,67,67	1.98	13 (28%)
29	PEB	T9	203	-	43,46,46	3.49	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	QM	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	jJ	202	-	43,46,46	3.09	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	bF	202	-	43,46,46	3.36	10 (23%)	45,67,67	2.05	17 (37%)
29	PEB	YK	202	-	43,46,46	3.40	9 (20%)	45,67,67	2.02	15 (33%)
32	PMS	kH	301	-	11,11,11	0.83	1 (9%)	14,15,15	0.65	0
29	PEB	MJ	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	FL	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	BQ	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	i7	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	DN	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.35	20 (44%)
31	CYC	GK	1001	4	42,46,46	3.09	13 (30%)	50,67,67	2.79	18 (36%)
29	PEB	DK	1002	5	43,46,46	3.42	13 (30%)	45,67,67	2.34	17 (37%)
29	PEB	IL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	lF	201	-	43,46,46	3.22	10 (23%)	45,67,67	2.24	19 (42%)
30	PUB	AK	304	-	42,46,46	3.54	8 (19%)	37,67,67	3.22	16 (43%)
29	PEB	XJ	202	-	43,46,46	3.07	10 (23%)	45,67,67	2.84	14 (31%)
29	PEB	wJ	302	-	43,46,46	3.42	12 (27%)	45,67,67	2.26	19 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	bK	201	-	43,46,46	3.19	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	e1	202	-	43,46,46	3.09	10 (23%)	45,67,67	2.59	15 (33%)
29	PEB	ZL	202	-	43,46,46	3.08	10 (23%)	45,67,67	2.85	14 (31%)
29	PEB	YB	203	-	43,46,46	3.35	11 (25%)	45,67,67	2.41	16 (35%)
29	PEB	W1	201	-	43,46,46	3.20	10 (23%)	45,67,67	2.39	17 (37%)
29	PEB	OB	202	-	43,46,46	3.35	11 (25%)	45,67,67	2.42	16 (35%)
29	PEB	XL	201	-	43,46,46	3.31	8 (18%)	45,67,67	2.98	15 (33%)
29	PEB	gI	202	-	43,46,46	3.15	10 (23%)	45,67,67	2.59	14 (31%)
29	PEB	IN	201	-	43,46,46	3.05	10 (23%)	45,67,67	2.23	16 (35%)
30	PUB	MG	402	14	42,46,46	3.70	9 (21%)	37,67,67	4.02	21 (56%)
31	CYC	nP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
31	CYC	FI	1001	5	42,46,46	3.19	15 (35%)	50,67,67	3.02	22 (44%)
29	PEB	KM	203	-	43,46,46	3.20	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	JJ	203	-	43,46,46	3.41	10 (23%)	45,67,67	1.99	12 (26%)
31	CYC	H9	1001	5	42,46,46	3.03	15 (35%)	50,67,67	3.24	26 (52%)
29	PEB	rL	202	-	43,46,46	3.08	11 (25%)	45,67,67	2.85	14 (31%)
29	PEB	f9	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.65	19 (42%)
29	PEB	H3	202	-	43,46,46	3.53	13 (30%)	45,67,67	2.12	15 (33%)
29	PEB	VM	201	-	43,46,46	3.34	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	LL	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	AA	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.89	20 (44%)
29	PEB	QB	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	OR	201	-	43,46,46	3.25	11 (25%)	45,67,67	2.55	18 (40%)
29	PEB	ZF	202	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	JG	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	16 (35%)
29	PEB	LB	203	-	43,46,46	3.38	11 (25%)	45,67,67	2.40	16 (35%)
29	PEB	EO	202	-	43,46,46	3.63	12 (27%)	45,67,67	1.98	15 (33%)
31	CYC	C9	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.81	21 (42%)
29	PEB	F8	202	-	43,46,46	3.26	10 (23%)	45,67,67	2.06	13 (28%)
29	PEB	dI	202	-	43,46,46	3.21	10 (23%)	45,67,67	2.25	19 (42%)
29	PEB	g9	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.37	15 (33%)
29	PEB	mL	201	-	43,46,46	2.92	9 (20%)	45,67,67	2.32	15 (33%)
29	PEB	mM	201	-	43,46,46	3.36	10 (23%)	45,67,67	2.33	15 (33%)
29	PEB	jK	203	-	43,46,46	3.10	10 (23%)	45,67,67	2.59	15 (33%)
31	CYC	M9	1001	-	42,46,46	3.15	14 (33%)	50,67,67	2.82	21 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	PJ	201	-	43,46,46	3.32	8 (18%)	45,67,67	2.99	15 (33%)
29	PEB	LC	203	-	43,46,46	3.45	9 (20%)	45,67,67	1.98	13 (28%)
29	PEB	DA	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	LD	201	-	43,46,46	3.13	14 (32%)	45,67,67	2.72	21 (46%)
29	PEB	CN	202	-	43,46,46	3.29	11 (25%)	45,67,67	2.90	20 (44%)
31	CYC	oP	1001	-	42,46,46	3.29	13 (30%)	50,67,67	3.10	21 (42%)
29	PEB	A9	305	-	43,46,46	3.31	10 (23%)	45,67,67	2.24	17 (37%)
29	PEB	IM	201	-	43,46,46	3.27	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	k1	201	-	43,46,46	3.23	10 (23%)	45,67,67	2.17	17 (37%)
29	PEB	CN	201	-	43,46,46	3.06	10 (23%)	45,67,67	2.23	16 (35%)
29	PEB	IA	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.90	20 (44%)
29	PEB	bJ	203	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	A1	301	-	43,46,46	3.25	10 (23%)	45,67,67	2.13	15 (33%)
31	CYC	JF	1001	5	42,46,46	3.19	14 (33%)	50,67,67	3.02	21 (42%)
29	PEB	HN	202	-	43,46,46	3.19	10 (23%)	45,67,67	2.26	16 (35%)
29	PEB	AB	303	-	43,46,46	3.35	10 (23%)	45,67,67	2.18	14 (31%)
29	PEB	FA	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	aI	201	-	43,46,46	3.34	11 (25%)	45,67,67	2.42	21 (46%)
29	PEB	I4	202	-	43,46,46	3.06	11 (25%)	45,67,67	2.58	16 (35%)
29	PEB	VI	203	-	43,46,46	3.38	10 (23%)	45,67,67	2.13	17 (37%)
29	PEB	dI	203	-	43,46,46	3.35	10 (23%)	45,67,67	2.05	16 (35%)
29	PEB	LM	202	-	43,46,46	3.18	10 (23%)	45,67,67	2.47	15 (33%)
29	PEB	tL	202	-	43,46,46	3.43	10 (23%)	45,67,67	1.99	12 (26%)
29	PEB	XR	202	-	43,46,46	3.04	8 (18%)	45,67,67	2.48	17 (37%)
29	PEB	C8	201	-	43,46,46	3.32	10 (23%)	45,67,67	2.13	14 (31%)
30	PUB	yJ	302	-	42,46,46	3.35	7 (16%)	37,67,67	3.26	15 (40%)
29	PEB	a9	203	-	43,46,46	3.48	13 (30%)	45,67,67	2.10	14 (31%)
29	PEB	LN	203	-	43,46,46	3.30	9 (20%)	45,67,67	2.07	15 (33%)
29	PEB	M2	202	-	43,46,46	3.63	12 (27%)	45,67,67	2.06	15 (33%)
29	PEB	HC	202	-	43,46,46	3.25	11 (25%)	45,67,67	2.43	15 (33%)
29	PEB	DI	1002	-	43,46,46	3.33	10 (23%)	45,67,67	2.11	16 (35%)
29	PEB	m7	203	-	43,46,46	3.50	13 (30%)	45,67,67	2.11	14 (31%)
29	PEB	EM	201	-	43,46,46	3.28	10 (23%)	45,67,67	2.25	14 (31%)
29	PEB	UJ	202	-	43,46,46	3.28	10 (23%)	45,67,67	2.12	13 (28%)
29	PEB	eL	201	-	43,46,46	2.91	9 (20%)	45,67,67	2.31	15 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	PEB	N3	201	-	43,46,46	3.31	9 (20%)	45,67,67	2.29	15 (33%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	jB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	B5	203	-	-	12/24/74/74	0/4/4/4
29	PEB	B3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	kJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	O1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	fB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	aM	201	-	-	5/24/74/74	0/4/4/4
31	CYC	TP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	GJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	O2	201	-	-	7/24/74/74	0/4/4/4
31	CYC	fP	1001	-	-	8/25/74/74	0/4/4/4
31	CYC	L7	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	C5	201	-	-	6/24/74/74	0/4/4/4
29	PEB	KO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	BO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	G5	202	-	-	10/24/74/74	0/4/4/4
29	PEB	W7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	gF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	nJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	JJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	ZI	201	-	-	6/24/74/74	0/4/4/4
30	PUB	BM	302	17	-	7/24/74/74	0/4/4/4
29	PEB	I8	202	-	-	9/24/74/74	0/4/4/4
29	PEB	fB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	AL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	CO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	F3	203	-	-	10/24/74/74	0/4/4/4
31	CYC	xP	1001	-	-	10/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	EC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	J1	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	KB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	KB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	KO	201	-	-	4/24/74/74	0/4/4/4
29	PEB	VF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	HL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	g1	201	-	-	6/24/74/74	0/4/4/4
31	CYC	UP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	V9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	eM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	KE	203	-	-	8/24/74/74	0/4/4/4
30	PUB	MQ	404	14	-	15/24/74/74	0/4/4/4
29	PEB	uL	202	-	-	9/24/74/74	0/4/4/4
30	PUB	AI	303	-	-	6/24/74/74	0/4/4/4
29	PEB	a1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	kM	201	-	-	6/24/74/74	0/4/4/4
31	CYC	FF	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	CJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	FK	1002	5	-	8/24/74/74	0/4/4/4
29	PEB	KL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	cK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	R1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	rJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	mK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	gB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	BL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	FM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	F4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	D4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	kF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	BM	301	-	-	13/24/74/74	0/4/4/4
31	CYC	jP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	NB	201	-	-	6/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	fF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	K8	201	-	-	6/24/74/74	0/4/4/4
29	PEB	OM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	V1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	R2	203	7	-	12/24/74/74	0/4/4/4
29	PEB	EB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	IJ	203	-	-	9/24/74/74	0/4/4/4
29	PEB	ZL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	ZK	203	-	-	9/24/74/74	0/4/4/4
29	PEB	KD	203	-	-	11/24/74/74	0/4/4/4
29	PEB	Q2	202	-	-	11/24/74/74	0/4/4/4
29	PEB	gI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	NL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	V7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	O2	202	-	-	11/24/74/74	0/4/4/4
29	PEB	gM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	B8	201	-	-	7/24/74/74	0/4/4/4
29	PEB	rL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	AK	301	-	-	10/24/74/74	0/4/4/4
29	PEB	f9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	hM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	nJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	JL	201	-	-	7/24/74/74	0/4/4/4
31	CYC	LK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	nL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	g7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	HF	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	VK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	T2	203	7	-	12/24/74/74	0/4/4/4
29	PEB	pJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	HK	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	GD	203	7	-	11/24/74/74	0/4/4/4
29	PEB	sJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	CG	201	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	PUB	yL	303	-	-	5/24/74/74	0/4/4/4
29	PEB	AQ	201	-	-	7/24/74/74	0/4/4/4
31	CYC	gP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	DC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	C3	201	-	-	4/24/74/74	0/4/4/4
29	PEB	V2	201	-	-	9/24/74/74	0/4/4/4
31	CYC	J9	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	JA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	m9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	Y7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	K3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	DQ	203	-	-	12/24/74/74	0/4/4/4
29	PEB	V2	203	-	-	12/24/74/74	0/4/4/4
29	PEB	T9	202	-	-	9/24/74/74	0/4/4/4
31	CYC	EP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	RB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	UF	203	-	-	8/24/74/74	0/4/4/4
31	CYC	MF	1001	4	-	8/25/74/74	0/4/4/4
31	CYC	hP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	AJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	CC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	eL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	M4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	eK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	NM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	KE	201	-	-	8/24/74/74	0/4/4/4
29	PEB	TK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	S9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	II	201	-	-	6/24/74/74	0/4/4/4
29	PEB	BN	203	-	-	9/24/74/74	0/4/4/4
31	CYC	pP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	H5	201	-	-	7/24/74/74	0/4/4/4
29	PEB	AJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	EM	202	-	-	10/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	GM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	FJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	e9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	EL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	lB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	P9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	eF	203	-	-	14/24/74/74	0/4/4/4
31	CYC	DP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	DB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	S9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	M3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	HE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	JL	202	-	-	9/24/74/74	0/4/4/4
31	CYC	D1	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	W1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	wJ	303	-	-	14/24/74/74	0/4/4/4
29	PEB	d1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	BD	202	-	-	11/24/74/74	0/4/4/4
29	PEB	jI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	jM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	h9	202	-	-	8/24/74/74	0/4/4/4
31	CYC	J7	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	F5	201	-	-	7/24/74/74	0/4/4/4
29	PEB	VI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	HE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	e7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	i1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	UJ	201	6	-	9/24/74/74	0/4/4/4
29	PEB	wL	301	-	-	12/24/74/74	0/4/4/4
29	PEB	DD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	ZM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	l1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	IO	201	-	-	4/24/74/74	0/4/4/4
31	CYC	wP	1001	-	-	8/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	NK	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	R9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	PM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	F9	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	bI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	H8	203	-	-	12/24/74/74	0/4/4/4
29	PEB	jF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	TJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	MG	401	-	-	9/24/74/74	0/4/4/4
29	PEB	JQ	203	-	-	12/24/74/74	0/4/4/4
29	PEB	xL	303	-	-	14/24/74/74	0/4/4/4
29	PEB	ZB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	KN	202	-	-	16/24/74/74	0/4/4/4
29	PEB	h7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	eR	401	-	-	9/24/74/74	0/4/4/4
29	PEB	ZB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	bK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	PR	201	-	-	7/24/74/74	0/4/4/4
29	PEB	j7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	J3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	mM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	eM	202	-	-	13/24/74/74	0/4/4/4
29	PEB	mB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	JN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	DJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	k1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	L7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	AB	301	-	-	10/24/74/74	0/4/4/4
29	PEB	X2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	DQ	202	-	-	6/24/74/74	0/4/4/4
30	PUB	AM	305	-	-	7/24/74/74	0/4/4/4
29	PEB	DQ	201	-	-	10/24/74/74	0/4/4/4
29	PEB	m1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	VL	201	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	bJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	WJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	bJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	LQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	kK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	LQ	201	-	-	6/24/74/74	0/4/4/4
30	PUB	MG	403	-	-	10/24/74/74	0/4/4/4
29	PEB	fK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	jK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	A3	201	-	-	4/24/74/74	0/4/4/4
31	CYC	C1	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	LC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	uJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	AC	202	-	-	8/24/74/74	0/4/4/4
29	PEB	mF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	DO	202	-	-	12/24/74/74	0/4/4/4
29	PEB	H3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	ZK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	B8	202	-	-	10/24/74/74	0/4/4/4
29	PEB	mF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	LN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	cI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	F5	202	-	-	10/24/74/74	0/4/4/4
29	PEB	b9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	LN	201	-	-	12/24/74/74	0/4/4/4
29	PEB	H1	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	FD	202	-	-	11/24/74/74	0/4/4/4
29	PEB	SI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	BA	201	-	-	12/24/74/74	0/4/4/4
31	CYC	I7	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	m7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	EN	202	-	-	16/24/74/74	0/4/4/4
29	PEB	R1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	eI	203	-	-	14/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	IJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	I3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	EA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	VM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	LB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	iB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	MR	202	-	-	5/24/74/74	0/4/4/4
29	PEB	DL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	OF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	CG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	hJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	AO	201	-	-	4/24/74/74	0/4/4/4
31	CYC	G7	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	DF	1002	-	-	13/24/74/74	0/4/4/4
30	PUB	xJ	305	-	-	5/24/74/74	0/4/4/4
29	PEB	B3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	fJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	jL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	dJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	aB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	Y1	202	-	-	6/24/74/74	0/4/4/4
31	CYC	D1	1003	4	-	9/25/74/74	0/4/4/4
29	PEB	U9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	NM	202	-	-	13/24/74/74	0/4/4/4
29	PEB	mK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	j1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	j9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	l9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	hL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	TB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	D3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	PF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	T1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	MD	202	-	-	12/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	D7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	T1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	SB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	R7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	RL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	CD	203	-	-	11/24/74/74	0/4/4/4
29	PEB	I5	203	-	-	9/24/74/74	0/4/4/4
29	PEB	FJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	kL	201	-	-	9/24/74/74	0/4/4/4
31	CYC	1P	1002	-	-	7/25/74/74	0/4/4/4
29	PEB	oL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	hL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	BG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	LI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	NO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	A7	304	-	-	10/24/74/74	0/4/4/4
29	PEB	N9	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	JM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	zJ	501	7	-	8/24/74/74	0/4/4/4
29	PEB	NJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	pJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	Y9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	L4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	AK	303	-	-	9/24/74/74	0/4/4/4
29	PEB	gK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	JO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	IO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	i7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	AM	302	-	-	8/24/74/74	0/4/4/4
29	PEB	MG	405	-	-	11/24/74/74	0/4/4/4
29	PEB	iK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	HM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	L9	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	T2	202	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	g7	202	-	-	9/24/74/74	0/4/4/4
31	CYC	uP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	OB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	J4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	AF	301	-	-	12/24/74/74	0/4/4/4
30	PUB	A7	303	-	-	8/24/74/74	0/4/4/4
29	PEB	c1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	R2	201	-	-	9/24/74/74	0/4/4/4
29	PEB	IG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	Q1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	TM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	P7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	fI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	jJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	f1	202	-	-	9/24/74/74	0/4/4/4
31	CYC	PP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	cL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	f7	202	-	-	8/24/74/74	0/4/4/4
31	CYC	IK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	GB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	CL	202	-	-	10/24/74/74	0/4/4/4
31	CYC	NF	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	b7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	L3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	A9	304	-	-	10/24/74/74	0/4/4/4
31	CYC	II	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	PL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	XJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	MQ	402	-	-	10/24/74/74	0/4/4/4
29	PEB	Z1	202	-	-	8/24/74/74	0/4/4/4
29	PEB	FB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	I4	203	7	-	8/24/74/74	0/4/4/4
29	PEB	KN	201	-	-	10/24/74/74	0/4/4/4
29	PEB	MJ	202	-	-	10/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	FL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	YI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	FQ	203	-	-	12/24/74/74	0/4/4/4
29	PEB	oJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	CL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	A8	201	-	-	6/24/74/74	0/4/4/4
29	PEB	S2	201	-	-	4/24/74/74	0/4/4/4
29	PEB	G8	202	-	-	10/24/74/74	0/4/4/4
29	PEB	b9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	E4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	G8	201	-	-	7/24/74/74	0/4/4/4
29	PEB	HO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	NO	201	-	-	6/24/74/74	0/4/4/4
29	PEB	U2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	SL	202	-	-	10/24/74/74	0/4/4/4
31	CYC	E9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	B8	203	-	-	12/24/74/74	0/4/4/4
29	PEB	BN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	VM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	BN	201	-	-	12/24/74/74	0/4/4/4
30	PUB	xL	304	-	-	9/24/74/74	0/4/4/4
29	PEB	BL	201	-	-	7/24/74/74	0/4/4/4
31	CYC	M1	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	WR	202	-	-	10/24/74/74	0/4/4/4
29	PEB	JI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	I3	203	-	-	9/24/74/74	0/4/4/4
29	PEB	HG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	hJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	cM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	tL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	mI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	MM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	xL	301	-	-	12/24/74/74	0/4/4/4
29	PEB	OF	203	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	pJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	lM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	AI	305	-	-	7/24/74/74	0/4/4/4
29	PEB	HC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	QJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	RK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	VR	202	-	-	7/24/74/74	0/4/4/4
29	PEB	KQ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	UK	202	-	-	8/24/74/74	0/4/4/4
31	CYC	YP	1000	-	-	7/25/74/74	0/4/4/4
29	PEB	OR	202	6	-	8/24/74/74	0/4/4/4
29	PEB	S7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	R7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	j1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	TF	202	-	-	14/24/74/74	0/4/4/4
29	PEB	l9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	dL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	UF	201	-	-	7/24/74/74	0/4/4/4
29	PEB	Y7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	IM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	LC	202	-	-	8/24/74/74	0/4/4/4
29	PEB	KG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	iM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	e7	201	-	-	4/24/74/74	0/4/4/4
31	CYC	WP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	DA	201	-	-	12/24/74/74	0/4/4/4
30	PUB	QB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	cI	202	-	-	14/24/74/74	0/4/4/4
29	PEB	N3	202	-	-	10/24/74/74	0/4/4/4
29	PEB	UK	203	-	-	9/24/74/74	0/4/4/4
29	PEB	JB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	mB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	GO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	NF	1002	-	-	13/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	PUB	xL	305	-	-	5/24/74/74	0/4/4/4
29	PEB	Z9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	MG	404	-	-	10/24/74/74	0/4/4/4
29	PEB	xL	302	-	-	7/24/74/74	0/4/4/4
29	PEB	P9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	KG	201	-	-	7/24/74/74	0/4/4/4
31	CYC	CI	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	LM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	bF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	H5	202	-	-	10/24/74/74	0/4/4/4
31	CYC	KI	1001	4	-	8/25/74/74	0/4/4/4
31	CYC	JI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	ID	202	-	-	12/24/74/74	0/4/4/4
29	PEB	eF	202	-	-	7/24/74/74	0/4/4/4
30	PUB	MQ	405	-	-	10/24/74/74	0/4/4/4
29	PEB	b1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	OL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	b1	201	-	-	8/24/74/74	0/4/4/4
31	CYC	MK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	BQ	201	29	-	10/24/74/74	0/4/4/4
29	PEB	SK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	dJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	H3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	bL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	ZM	203	7	-	13/24/74/74	0/4/4/4
29	PEB	kB	202	-	-	6/24/74/74	0/4/4/4
30	PUB	AF	303	-	-	6/24/74/74	0/4/4/4
29	PEB	aK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	U9	202	-	-	8/24/74/74	0/4/4/4
31	CYC	I9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	AG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	iF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	YF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	C4	203	-	-	11/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	sJ	203	-	-	9/24/74/74	0/4/4/4
29	PEB	RI	202	-	-	14/24/74/74	0/4/4/4
29	PEB	DC	202	-	-	9/24/74/74	0/4/4/4
29	PEB	GL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	G4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	kI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	LB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	Q7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	fI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	rL	201	-	-	7/24/74/74	0/4/4/4
31	CYC	DK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	lK	202	-	-	9/24/74/74	0/4/4/4
31	CYC	SP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	mI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	mJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	OK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	fJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	OJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	IL	203	-	-	9/24/74/74	0/4/4/4
29	PEB	W2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	PK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	TJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	JE	202	-	-	9/24/74/74	0/4/4/4
29	PEB	L3	202	-	-	10/24/74/74	0/4/4/4
29	PEB	LA	201	-	-	12/24/74/74	0/4/4/4
29	PEB	GL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	Z1	203	-	-	9/24/74/74	0/4/4/4
29	PEB	QR	202	-	-	10/24/74/74	0/4/4/4
29	PEB	XL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	Q7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	eJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	K4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	UM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	AI	304	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	K4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	Z7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	k9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	qJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	PF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	ZF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	CJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	A5	202	-	-	9/24/74/74	0/4/4/4
29	PEB	GQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	JG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	G8	203	-	-	12/24/74/74	0/4/4/4
29	PEB	RL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	RM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	iM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	DG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	iM	201	7	-	6/24/74/74	0/4/4/4
29	PEB	P2	202	7	-	12/24/74/74	0/4/4/4
31	CYC	KF	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	SF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	QF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	qJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	BJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	IJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	EQ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	RR	201	-	-	9/24/74/74	0/4/4/4
29	PEB	NJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	HB	202	-	-	6/24/74/74	0/4/4/4
31	CYC	G9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	DO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	cL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	SF	201	-	-	6/24/74/74	0/4/4/4
31	CYC	qP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	Z1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	L8	202	-	-	10/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	SJ	201	-	-	9/24/74/74	0/4/4/4
31	CYC	mP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	MA	404	-	-	11/24/74/74	0/4/4/4
29	PEB	N2	203	-	-	12/24/74/74	0/4/4/4
29	PEB	IJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	N1	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	IC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	gF	201	-	-	11/24/74/74	0/4/4/4
30	PUB	yJ	303	-	-	5/24/74/74	0/4/4/4
29	PEB	IL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	WB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	HM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	F3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	aL	202	-	-	10/24/74/74	0/4/4/4
31	CYC	FK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	AB	302	-	-	8/24/74/74	0/4/4/4
29	PEB	RJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	D1	1002	5	-	8/24/74/74	0/4/4/4
30	PUB	BB	302	17	-	7/24/74/74	0/4/4/4
29	PEB	DA	202	-	-	11/24/74/74	0/4/4/4
29	PEB	gM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	U1	203	-	-	9/24/74/74	0/4/4/4
29	PEB	WB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	aJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	N3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	S2	202	-	-	10/24/74/74	0/4/4/4
29	PEB	DE	202	-	-	9/24/74/74	0/4/4/4
29	PEB	H4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	f7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	MM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	FM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	AN	201	-	-	10/24/74/74	0/4/4/4
29	PEB	TR	202	-	-	7/24/74/74	0/4/4/4
29	PEB	TL	203	-	-	13/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	QL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	CQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	RJ	203	-	-	13/24/74/74	0/4/4/4
31	CYC	K9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	QK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	hB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	FA	202	-	-	11/24/74/74	0/4/4/4
29	PEB	QK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	KD	202	-	-	12/24/74/74	0/4/4/4
29	PEB	YB	202	-	-	5/24/74/74	0/4/4/4
29	PEB	PB	202	-	-	13/24/74/74	0/4/4/4
29	PEB	ID	203	7	-	11/24/74/74	0/4/4/4
29	PEB	BB	301	-	-	13/24/74/74	0/4/4/4
31	CYC	C7	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	MO	202	-	-	10/24/74/74	0/4/4/4
29	PEB	TR	201	7	-	9/24/74/74	0/4/4/4
29	PEB	C5	202	-	-	9/24/74/74	0/4/4/4
29	PEB	wJ	301	-	-	12/24/74/74	0/4/4/4
29	PEB	WL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	MO	201	-	-	6/24/74/74	0/4/4/4
29	PEB	dJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	QR	201	-	-	7/24/74/74	0/4/4/4
31	CYC	F7	1001	5	-	9/25/74/74	0/4/4/4
32	PMS	k6	301	-	-	2/5/5/5	0/1/1/1
29	PEB	FG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	J8	201	-	-	5/24/74/74	0/4/4/4
29	PEB	dD	401	-	-	9/24/74/74	0/4/4/4
29	PEB	XM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	F4	201	-	-	8/24/74/74	0/4/4/4
29	PEB	LF	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	O7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	W9	202	6	-	8/24/74/74	0/4/4/4
29	PEB	V1	201	-	-	6/24/74/74	0/4/4/4
31	CYC	D7	1001	5	-	9/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	FO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	l1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	e7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	EG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	GD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	EG	201	-	-	7/24/74/74	0/4/4/4
29	PEB	m9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	HI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	R9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	aB	203	-	-	6/24/74/74	0/4/4/4
29	PEB	O9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	W2	202	-	-	10/24/74/74	0/4/4/4
29	PEB	MB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	fL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	ZJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	EN	201	-	-	10/24/74/74	0/4/4/4
29	PEB	c1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	NI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	PR	202	7	-	12/24/74/74	0/4/4/4
29	PEB	j7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	HA	202	-	-	11/24/74/74	0/4/4/4
29	PEB	K4	203	7	-	11/24/74/74	0/4/4/4
29	PEB	J5	202	-	-	8/24/74/74	0/4/4/4
31	CYC	JK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	FC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	HN	203	-	-	9/24/74/74	0/4/4/4
29	PEB	EL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	tJ	202	-	-	13/24/74/74	0/4/4/4
29	PEB	KJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	vJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	OM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	VL	202	-	-	13/24/74/74	0/4/4/4
29	PEB	ML	202	-	-	10/24/74/74	0/4/4/4
29	PEB	c9	202	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	IJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	JB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	V1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	CD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	FQ	201	-	-	10/24/74/74	0/4/4/4
31	CYC	NK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	OI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	DD	202	-	-	11/24/74/74	0/4/4/4
30	PUB	wJ	304	-	-	9/24/74/74	0/4/4/4
29	PEB	c9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	CQ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	dF	201	-	-	7/24/74/74	0/4/4/4
29	PEB	BC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	PM	202	-	-	13/24/74/74	0/4/4/4
29	PEB	a7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	I8	201	-	-	6/24/74/74	0/4/4/4
31	CYC	M7	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	H8	202	-	-	10/24/74/74	0/4/4/4
29	PEB	DB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	iK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	WM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	PJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	H8	201	-	-	7/24/74/74	0/4/4/4
29	PEB	G5	203	-	-	12/24/74/74	0/4/4/4
29	PEB	aF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	MQ	401	-	-	10/24/74/74	0/4/4/4
29	PEB	hK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	BD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	WK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	YB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	yL	301	-	-	9/24/74/74	0/4/4/4
29	PEB	bL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	cJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	JA	202	-	-	11/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	VK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	AN	202	-	-	16/24/74/74	0/4/4/4
29	PEB	sL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	NR	202	-	-	7/24/74/74	0/4/4/4
29	PEB	JA	201	-	-	12/24/74/74	0/4/4/4
29	PEB	WF	202	-	-	8/24/74/74	0/4/4/4
31	CYC	KP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	hK	201	-	-	8/24/74/74	0/4/4/4
31	CYC	F1	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	LA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	S1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	lM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	qL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	sL	203	-	-	9/24/74/74	0/4/4/4
31	CYC	kP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	jJ	201	-	-	7/24/74/74	0/4/4/4
30	PUB	wJ	305	-	-	5/24/74/74	0/4/4/4
29	PEB	SB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	E3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	AJ	203	-	-	9/24/74/74	0/4/4/4
29	PEB	BO	201	-	-	5/24/74/74	0/4/4/4
29	PEB	aF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	EQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	kL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	V9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	HO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	kB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	xJ	302	-	-	7/24/74/74	0/4/4/4
29	PEB	i7	203	-	-	12/24/74/74	0/4/4/4
31	CYC	MI	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	IO	203	-	-	9/24/74/74	0/4/4/4
29	PEB	V7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	XJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	J9	1002	-	-	12/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	JM	202	-	-	6/24/74/74	0/4/4/4
30	PUB	A9	302	2	-	5/24/74/74	0/4/4/4
29	PEB	AE	203	-	-	8/24/74/74	0/4/4/4
29	PEB	U1	202	-	-	8/24/74/74	0/4/4/4
31	CYC	L1	1001	-	-	7/25/74/74	0/4/4/4
31	CYC	1P	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	JF	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	ZI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	AO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	GA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	TL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	HE	203	-	-	9/24/74/74	0/4/4/4
29	PEB	J3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	hI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	GD	202	-	-	12/24/74/74	0/4/4/4
29	PEB	MD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	KM	202	-	-	10/24/74/74	0/4/4/4
31	CYC	EI	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	VJ	202	-	-	13/24/74/74	0/4/4/4
31	CYC	KK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	M3	201	-	-	6/24/74/74	0/4/4/4
29	PEB	YL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	U7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	DO	201	-	-	5/24/74/74	0/4/4/4
29	PEB	Y7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	cB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	A9	301	-	-	9/24/74/74	0/4/4/4
29	PEB	kJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	k7	203	-	-	12/24/74/74	0/4/4/4
31	CYC	RP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	EO	201	-	-	4/24/74/74	0/4/4/4
29	PEB	F8	201	-	-	7/24/74/74	0/4/4/4
29	PEB	dM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	M4	201	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	QF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	UL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	F8	203	-	-	12/24/74/74	0/4/4/4
29	PEB	UL	201	6	-	9/24/74/74	0/4/4/4
29	PEB	R7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	UI	202	-	-	6/24/74/74	0/4/4/4
29	PEB	MQ	407	-	-	11/24/74/74	0/4/4/4
30	PUB	MA	403	-	-	10/24/74/74	0/4/4/4
29	PEB	QI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	CO	201	-	-	4/24/74/74	0/4/4/4
29	PEB	e9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	CM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	DN	203	-	-	9/24/74/74	0/4/4/4
29	PEB	IQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	AF	305	-	-	7/24/74/74	0/4/4/4
29	PEB	DG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	UK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	c7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	YJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	I4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	NO	202	-	-	10/24/74/74	0/4/4/4
29	PEB	K5	201	-	-	6/24/74/74	0/4/4/4
29	PEB	iI	202	-	-	7/24/74/74	0/4/4/4
30	PUB	AK	305	-	-	13/24/74/74	0/4/4/4
29	PEB	JC	202	-	-	9/24/74/74	0/4/4/4
29	PEB	AK	302	-	-	9/24/74/74	0/4/4/4
29	PEB	G4	203	7	-	11/24/74/74	0/4/4/4
29	PEB	dK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	rJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	FE	203	-	-	9/24/74/74	0/4/4/4
31	CYC	XP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	JD	202	-	-	11/24/74/74	0/4/4/4
29	PEB	C8	202	-	-	9/24/74/74	0/4/4/4
29	PEB	jL	203	-	-	13/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	cK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	rJ	201	-	-	7/24/74/74	0/4/4/4
31	CYC	CP	1001	-	-	8/25/74/74	0/4/4/4
30	PUB	MA	402	14	-	8/24/74/74	0/4/4/4
29	PEB	cK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	EJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	BL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	VR	203	-	-	12/24/74/74	0/4/4/4
29	PEB	IB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	FF	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	XB	202	-	-	13/24/74/74	0/4/4/4
29	PEB	dI	201	-	-	7/24/74/74	0/4/4/4
29	PEB	L4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	CA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	Q9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	cM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	O9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	c1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	I3	201	-	-	4/24/74/74	0/4/4/4
29	PEB	GE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	B4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	OF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	kI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	Q1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	IE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	JQ	202	-	-	6/24/74/74	0/4/4/4
29	PEB	KQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	BE	203	-	-	9/24/74/74	0/4/4/4
29	PEB	JO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	GC	202	-	-	8/24/74/74	0/4/4/4
31	CYC	rP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	g9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	BG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	d7	202	-	-	8/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	C3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	eI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	VK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	KJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	PL	202	-	-	9/24/74/74	0/4/4/4
31	CYC	NI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	EE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	C4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	LK	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	D3	203	-	-	10/24/74/74	0/4/4/4
29	PEB	j9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	lK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	KB	203	-	-	6/24/74/74	0/4/4/4
29	PEB	FB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	cB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	HQ	202	-	-	6/24/74/74	0/4/4/4
29	PEB	dL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	aI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	J7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	hM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	VF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	TK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	V9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	KL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	eI	203	-	-	6/24/74/74	0/4/4/4
31	CYC	NP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	B5	202	-	-	10/24/74/74	0/4/4/4
29	PEB	XR	203	7	-	12/24/74/74	0/4/4/4
31	CYC	I1	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	KA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	jI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	JE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	JQ	201	-	-	10/24/74/74	0/4/4/4
29	PEB	HN	201	-	-	12/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	kF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	a7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	RB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	HB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	K8	202	-	-	9/24/74/74	0/4/4/4
29	PEB	A3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	V7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	i1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	NL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	M3	202	-	-	10/24/74/74	0/4/4/4
29	PEB	iB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	QI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	lF	202	-	-	8/24/74/74	0/4/4/4
30	PUB	A9	303	-	-	8/24/74/74	0/4/4/4
29	PEB	GN	202	-	-	16/24/74/74	0/4/4/4
29	PEB	nJ	203	-	-	13/24/74/74	0/4/4/4
31	CYC	J1	1001	-	-	7/25/74/74	0/4/4/4
31	CYC	N7	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	I8	203	-	-	9/24/74/74	0/4/4/4
29	PEB	DL	202	-	-	13/24/74/74	0/4/4/4
29	PEB	MA	401	-	-	12/24/74/74	0/4/4/4
29	PEB	i9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	E4	203	-	-	11/24/74/74	0/4/4/4
29	PEB	PK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	AQ	202	-	-	12/24/74/74	0/4/4/4
29	PEB	RK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	V2	202	-	-	7/24/74/74	0/4/4/4
29	PEB	MN	404	-	-	11/24/74/74	0/4/4/4
29	PEB	UF	202	-	-	6/24/74/74	0/4/4/4
29	PEB	VF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	K5	202	-	-	9/24/74/74	0/4/4/4
29	PEB	Z7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	VJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	M4	203	7	-	12/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	PMS	k6	302	-	-	2/5/5/5	0/1/1/1
29	PEB	AF	304	-	-	9/24/74/74	0/4/4/4
29	PEB	RJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	mM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	U1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	UI	201	-	-	7/24/74/74	0/4/4/4
31	CYC	HF	1001	5	-	7/25/74/74	0/4/4/4
31	CYC	tP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	lB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	lI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	L8	203	-	-	12/24/74/74	0/4/4/4
29	PEB	M2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	uJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	HA	201	-	-	12/24/74/74	0/4/4/4
29	PEB	xJ	303	-	-	14/24/74/74	0/4/4/4
29	PEB	hI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	IB	202	-	-	10/24/74/74	0/4/4/4
30	PUB	AF	302	-	-	9/24/74/74	0/4/4/4
29	PEB	P9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	WR	201	-	-	7/24/74/74	0/4/4/4
29	PEB	AC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	pL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	C4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	e9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	VI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	m9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	A5	201	-	-	6/24/74/74	0/4/4/4
29	PEB	LG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	OK	202	-	-	9/24/74/74	0/4/4/4
30	PUB	A7	302	2	-	5/24/74/74	0/4/4/4
29	PEB	T7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	uJ	203	-	-	10/24/74/74	0/4/4/4
29	PEB	gF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	T7	201	-	-	4/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	TJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	CM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	iL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	h9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	dL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	fM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	GJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	hF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	ZB	203	7	-	13/24/74/74	0/4/4/4
29	PEB	vL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	KE	202	-	-	6/24/74/74	0/4/4/4
29	PEB	c7	201	-	-	4/24/74/74	0/4/4/4
30	PUB	wL	305	-	-	5/24/74/74	0/4/4/4
29	PEB	PF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	gK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	KM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	A7	301	-	-	9/24/74/74	0/4/4/4
29	PEB	KC	202	-	-	6/24/74/74	0/4/4/4
29	PEB	eK	201	-	-	6/24/74/74	0/4/4/4
29	PEB	YM	203	-	-	10/24/74/74	0/4/4/4
29	PEB	YL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	HO	201	-	-	5/24/74/74	0/4/4/4
29	PEB	YF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	ZJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	c9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	LJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	DM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	X2	202	7	-	12/24/74/74	0/4/4/4
29	PEB	l7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	IN	202	-	-	16/24/74/74	0/4/4/4
29	PEB	OI	203	-	-	7/24/74/74	0/4/4/4
29	PEB	FL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	UB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	RM	201	-	-	6/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	SJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	UB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	MN	401	-	-	12/24/74/74	0/4/4/4
29	PEB	LE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	RR	202	-	-	7/24/74/74	0/4/4/4
29	PEB	AC	203	-	-	8/24/74/74	0/4/4/4
29	PEB	FD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	J8	202	-	-	8/24/74/74	0/4/4/4
31	CYC	OP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	jF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	MA	405	-	-	9/24/74/74	0/4/4/4
29	PEB	ZK	202	-	-	8/24/74/74	0/4/4/4
31	CYC	cP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	lJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	WI	202	-	-	8/24/74/74	0/4/4/4
29	PEB	iB	201	7	-	6/24/74/74	0/4/4/4
29	PEB	eI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	MR	201	-	-	7/24/74/74	0/4/4/4
29	PEB	BA	202	-	-	11/24/74/74	0/4/4/4
29	PEB	PL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	k9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	MQ	406	29	-	10/24/74/74	0/4/4/4
29	PEB	FA	201	-	-	12/24/74/74	0/4/4/4
29	PEB	EA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	aM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	WI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	AA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	IQ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	P7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	aB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	iF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	WL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	HD	202	-	-	11/24/74/74	0/4/4/4
29	PEB	SM	201	-	-	5/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	IL	202	-	-	10/24/74/74	0/4/4/4
31	CYC	DI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	K3	201	-	-	4/24/74/74	0/4/4/4
29	PEB	e2	402	-	-	9/24/74/74	0/4/4/4
29	PEB	g9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	QJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	HM	201	-	-	6/24/74/74	0/4/4/4
31	CYC	MP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	JC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	FI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	k7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	dK	201	-	-	8/24/74/74	0/4/4/4
31	CYC	iP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	JG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	B3	201	-	-	5/24/74/74	0/4/4/4
29	PEB	TB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	FC	202	-	-	8/24/74/74	0/4/4/4
29	PEB	aL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	d9	202	-	-	8/24/74/74	0/4/4/4
29	PEB	K5	203	-	-	9/24/74/74	0/4/4/4
29	PEB	VB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	QM	204	-	-	10/24/74/74	0/4/4/4
29	PEB	FN	203	-	-	9/24/74/74	0/4/4/4
29	PEB	WJ	203	-	-	10/24/74/74	0/4/4/4
29	PEB	N7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	gB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	MD	203	7	-	11/24/74/74	0/4/4/4
29	PEB	QM	203	-	-	5/24/74/74	0/4/4/4
29	PEB	HG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	oL	201	-	-	9/24/74/74	0/4/4/4
31	CYC	IP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	a7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	RL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	dB	201	-	-	5/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	SK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	CB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	BJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	LM	201	-	-	6/24/74/74	0/4/4/4
31	CYC	AP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	eK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	gB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	aK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	FQ	202	-	-	6/24/74/74	0/4/4/4
29	PEB	O1	202	-	-	9/24/74/74	0/4/4/4
31	CYC	IP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	EE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	NJ	202	-	-	9/24/74/74	0/4/4/4
31	CYC	DF	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	e1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	hB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	ZL	201	-	-	7/24/74/74	0/4/4/4
31	CYC	E1	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	LD	202	-	-	11/24/74/74	0/4/4/4
29	PEB	Y9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	KD	201	-	-	9/24/74/74	0/4/4/4
30	PUB	MN	403	-	-	10/24/74/74	0/4/4/4
29	PEB	PB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	aK	201	-	-	6/24/74/74	0/4/4/4
31	CYC	EF	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	mJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	N2	202	-	-	7/24/74/74	0/4/4/4
29	PEB	g7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	IG	201	-	-	7/24/74/74	0/4/4/4
29	PEB	N2	201	-	-	9/24/74/74	0/4/4/4
29	PEB	m7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	WM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	d1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	S7	202	-	-	8/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	JJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	i9	202	-	-	9/24/74/74	0/4/4/4
30	PUB	A1	304	-	-	4/24/74/74	0/4/4/4
29	PEB	lL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	nL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	EB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	g1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	G5	201	-	-	7/24/74/74	0/4/4/4
29	PEB	R2	202	-	-	7/24/74/74	0/4/4/4
29	PEB	WK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	TM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	G4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	ZM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	RB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	mI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	H7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	e2	401	-	-	9/24/74/74	0/4/4/4
31	CYC	GP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	AL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	BO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	qL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	Y1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	GB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	fF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	CC	202	-	-	8/24/74/74	0/4/4/4
29	PEB	GN	201	-	-	10/24/74/74	0/4/4/4
31	CYC	GF	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	d7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	fM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	LJ	202	-	-	13/24/74/74	0/4/4/4
29	PEB	iI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	ED	202	7	-	11/24/74/74	0/4/4/4
29	PEB	uL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	A7	305	-	-	10/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CYC	HI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	D4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	P1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	C8	203	-	-	9/24/74/74	0/4/4/4
29	PEB	FB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	tJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	fK	201	-	-	8/24/74/74	0/4/4/4
31	CYC	K7	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	wL	303	-	-	14/24/74/74	0/4/4/4
29	PEB	DJ	202	-	-	13/24/74/74	0/4/4/4
29	PEB	H9	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	dF	202	-	-	6/24/74/74	0/4/4/4
29	PEB	ED	201	-	-	12/24/74/74	0/4/4/4
29	PEB	I5	202	-	-	9/24/74/74	0/4/4/4
29	PEB	HG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	U2	202	-	-	10/24/74/74	0/4/4/4
31	CYC	F9	1001	5	-	9/25/74/74	0/4/4/4
31	CYC	CK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	AI	301	-	-	12/24/74/74	0/4/4/4
29	PEB	iK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	OL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	BA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	R1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	iF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	YF	202	-	-	7/24/74/74	0/4/4/4
29	PEB	DB	202	-	-	6/24/74/74	0/4/4/4
31	CYC	EK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	I5	201	-	-	6/24/74/74	0/4/4/4
29	PEB	VR	201	-	-	9/24/74/74	0/4/4/4
29	PEB	aM	203	-	-	6/24/74/74	0/4/4/4
29	PEB	FN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	hF	202	-	-	8/24/74/74	0/4/4/4
32	PMS	kH	302	-	-	2/5/5/5	0/1/1/1
29	PEB	CE	202	-	-	8/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	bL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	iJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	CE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	gI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	AM	303	-	-	13/24/74/74	0/4/4/4
29	PEB	gJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	TF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	HJ	202	-	-	13/24/74/74	0/4/4/4
31	CYC	HP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	L1	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	BE	201	-	-	6/24/74/74	0/4/4/4
31	CYC	H7	1001	5	-	9/25/74/74	0/4/4/4
31	CYC	CF	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	k1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	LE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	aF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	k9	202	-	-	9/24/74/74	0/4/4/4
29	PEB	A8	203	-	-	9/24/74/74	0/4/4/4
29	PEB	JO	201	-	-	5/24/74/74	0/4/4/4
31	CYC	H1	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	HJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	L5	201	-	-	7/24/74/74	0/4/4/4
29	PEB	RF	202	-	-	14/24/74/74	0/4/4/4
29	PEB	dB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	RF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	LO	201	-	-	5/24/74/74	0/4/4/4
29	PEB	a1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	pL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	FG	201	-	-	10/24/74/74	0/4/4/4
29	PEB	cM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	hL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	S1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	K8	203	-	-	9/24/74/74	0/4/4/4
29	PEB	Z9	202	-	-	8/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	kF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	PI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	H5	203	-	-	12/24/74/74	0/4/4/4
29	PEB	kK	202	-	-	6/24/74/74	0/4/4/4
29	PEB	FG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	FE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	jK	202	-	-	9/24/74/74	0/4/4/4
29	PEB	mF	203	-	-	14/24/74/74	0/4/4/4
29	PEB	iI	203	-	-	6/24/74/74	0/4/4/4
29	PEB	XR	201	-	-	9/24/74/74	0/4/4/4
29	PEB	VB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	VB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	W7	202	6	-	8/24/74/74	0/4/4/4
29	PEB	LG	203	-	-	12/24/74/74	0/4/4/4
29	PEB	WL	203	-	-	10/24/74/74	0/4/4/4
29	PEB	BJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	cF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	SR	202	-	-	10/24/74/74	0/4/4/4
29	PEB	MQ	403	-	-	9/24/74/74	0/4/4/4
29	PEB	U7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	aJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	SR	201	-	-	7/24/74/74	0/4/4/4
29	PEB	ID	201	-	-	9/24/74/74	0/4/4/4
29	PEB	nL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	A1	302	-	-	9/24/74/74	0/4/4/4
29	PEB	HQ	203	7	-	12/24/74/74	0/4/4/4
31	CYC	FP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	kI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	HL	202	-	-	13/24/74/74	0/4/4/4
29	PEB	iI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	gK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	KC	201	-	-	8/24/74/74	0/4/4/4
29	PEB	mB	202	-	-	6/24/74/74	0/4/4/4
31	CYC	E7	1001	-	-	7/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	kM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	sJ	201	-	-	9/24/74/74	0/4/4/4
31	CYC	JP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	fJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	c7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	TR	203	7	-	12/24/74/74	0/4/4/4
29	PEB	NR	201	-	-	9/24/74/74	0/4/4/4
30	PUB	AB	304	-	-	13/24/74/74	0/4/4/4
29	PEB	DG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	NB	202	-	-	13/24/74/74	0/4/4/4
29	PEB	FO	201	-	-	5/24/74/74	0/4/4/4
29	PEB	WJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	LA	202	-	-	11/24/74/74	0/4/4/4
29	PEB	T9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	G3	201	-	-	4/24/74/74	0/4/4/4
29	PEB	P1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	DM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	jB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	A5	203	-	-	9/24/74/74	0/4/4/4
29	PEB	TI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	MN	405	-	-	9/24/74/74	0/4/4/4
29	PEB	m1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	RM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	GO	201	-	-	4/24/74/74	0/4/4/4
29	PEB	NL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	UR	202	-	-	11/24/74/74	0/4/4/4
29	PEB	a9	202	-	-	9/24/74/74	0/4/4/4
30	PUB	QM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	mL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	YJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	oJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	HB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	EJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	SM	202	-	-	10/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	a9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	P1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	TL	201	-	-	7/24/74/74	0/4/4/4
30	PUB	A1	305	-	-	13/24/74/74	0/4/4/4
30	PUB	AB	305	-	-	7/24/74/74	0/4/4/4
29	PEB	L8	201	-	-	7/24/74/74	0/4/4/4
29	PEB	TB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	J3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	PK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	jL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	F5	203	-	-	12/24/74/74	0/4/4/4
29	PEB	P2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	D9	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	QB	203	-	-	5/24/74/74	0/4/4/4
29	PEB	iJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	JD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	B5	201	-	-	7/24/74/74	0/4/4/4
29	PEB	F7	1002	-	-	12/24/74/74	0/4/4/4
29	PEB	cB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	FO	202	-	-	9/24/74/74	0/4/4/4
29	PEB	ML	201	-	-	9/24/74/74	0/4/4/4
29	PEB	hJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	WF	201	-	-	6/24/74/74	0/4/4/4
29	PEB	RI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	CA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	IL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	BQ	203	-	-	12/24/74/74	0/4/4/4
29	PEB	QB	204	-	-	10/24/74/74	0/4/4/4
29	PEB	BE	202	-	-	8/24/74/74	0/4/4/4
31	CYC	BP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	GM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	L5	202	-	-	10/24/74/74	0/4/4/4
29	PEB	YI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	H4	201	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	KC	203	-	-	8/24/74/74	0/4/4/4
29	PEB	FJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	BG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	GG	202	-	-	12/24/74/74	0/4/4/4
29	PEB	LL	201	-	-	7/24/74/74	0/4/4/4
30	PUB	wL	304	-	-	9/24/74/74	0/4/4/4
29	PEB	GC	201	-	-	6/24/74/74	0/4/4/4
29	PEB	QL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	BC	203	-	-	9/24/74/74	0/4/4/4
29	PEB	UI	203	-	-	8/24/74/74	0/4/4/4
29	PEB	JN	201	-	-	12/24/74/74	0/4/4/4
29	PEB	vJ	202	-	-	13/24/74/74	0/4/4/4
29	PEB	YK	201	-	-	6/24/74/74	0/4/4/4
31	CYC	yP	1001	-	-	8/25/74/74	0/4/4/4
31	CYC	GI	1001	4	-	8/25/74/74	0/4/4/4
31	CYC	QP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	jM	202	-	-	10/24/74/74	0/4/4/4
29	PEB	PI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	GG	201	-	-	7/24/74/74	0/4/4/4
29	PEB	kK	203	-	-	6/24/74/74	0/4/4/4
29	PEB	FE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	RR	203	7	-	12/24/74/74	0/4/4/4
29	PEB	YM	202	-	-	5/24/74/74	0/4/4/4
29	PEB	eJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	JK	1002	-	-	8/24/74/74	0/4/4/4
29	PEB	YM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	zL	501	7	-	8/24/74/74	0/4/4/4
29	PEB	C5	203	-	-	9/24/74/74	0/4/4/4
29	PEB	FM	201	-	-	6/24/74/74	0/4/4/4
31	CYC	N1	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	eB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	J4	202	-	-	11/24/74/74	0/4/4/4
29	PEB	b7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	yJ	301	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	EC	202	-	-	8/24/74/74	0/4/4/4
29	PEB	O7	201	-	-	8/24/74/74	0/4/4/4
29	PEB	HC	203	-	-	9/24/74/74	0/4/4/4
29	PEB	W9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	bI	202	-	-	8/24/74/74	0/4/4/4
31	CYC	HK	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	KA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	AG	201	-	-	7/24/74/74	0/4/4/4
29	PEB	SI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	XM	202	-	-	13/24/74/74	0/4/4/4
29	PEB	B4	201	-	-	9/24/74/74	0/4/4/4
29	PEB	Y9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	h7	202	-	-	8/24/74/74	0/4/4/4
29	PEB	CB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	MB	201	-	-	5/24/74/74	0/4/4/4
29	PEB	gM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	gJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	AM	301	-	-	10/24/74/74	0/4/4/4
29	PEB	kB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	T7	203	-	-	12/24/74/74	0/4/4/4
30	PUB	AM	304	-	-	13/24/74/74	0/4/4/4
29	PEB	R9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	PI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	kM	203	-	-	13/24/74/74	0/4/4/4
31	CYC	VP	1001	-	-	10/25/74/74	0/4/4/4
29	PEB	OJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	AL	203	-	-	9/24/74/74	0/4/4/4
29	PEB	fL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	fL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	DN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	ZJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	J5	201	-	-	5/24/74/74	0/4/4/4
29	PEB	YI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	vL	202	-	-	13/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	f1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	A8	202	-	-	9/24/74/74	0/4/4/4
29	PEB	G3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	uL	203	-	-	10/24/74/74	0/4/4/4
29	PEB	A1	303	-	-	9/24/74/74	0/4/4/4
29	PEB	P7	201	-	-	4/24/74/74	0/4/4/4
29	PEB	LO	202	-	-	10/24/74/74	0/4/4/4
29	PEB	TI	202	-	-	14/24/74/74	0/4/4/4
30	PUB	AI	302	-	-	9/24/74/74	0/4/4/4
29	PEB	JN	203	-	-	9/24/74/74	0/4/4/4
29	PEB	GQ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	iL	202	-	-	10/24/74/74	0/4/4/4
31	CYC	eP	1001	-	-	8/25/74/74	0/4/4/4
30	PUB	xJ	304	-	-	9/24/74/74	0/4/4/4
29	PEB	wL	302	-	-	7/24/74/74	0/4/4/4
29	PEB	L5	203	-	-	12/24/74/74	0/4/4/4
29	PEB	HD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	RK	201	-	-	6/24/74/74	0/4/4/4
31	CYC	LI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	cF	202	-	-	14/24/74/74	0/4/4/4
29	PEB	eB	202	-	-	13/24/74/74	0/4/4/4
30	PUB	MN	402	14	-	8/24/74/74	0/4/4/4
29	PEB	DM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	h1	202	-	-	9/24/74/74	0/4/4/4
29	PEB	IA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	JB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	a1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	F1	1002	5	-	8/24/74/74	0/4/4/4
31	CYC	LF	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	pL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	XB	201	-	-	6/24/74/74	0/4/4/4
29	PEB	MO	203	-	-	10/24/74/74	0/4/4/4
29	PEB	gL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	UR	201	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	JM	203	-	-	13/24/74/74	0/4/4/4
29	PEB	xJ	301	-	-	12/24/74/74	0/4/4/4
31	CYC	K1	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	FN	201	-	-	12/24/74/74	0/4/4/4
29	PEB	OI	201	-	-	6/24/74/74	0/4/4/4
29	PEB	LG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	d9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	dF	203	-	-	8/24/74/74	0/4/4/4
31	CYC	D9	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	CD	202	-	-	12/24/74/74	0/4/4/4
29	PEB	JL	203	-	-	13/24/74/74	0/4/4/4
29	PEB	h1	201	-	-	8/24/74/74	0/4/4/4
31	CYC	L9	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	AE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	eF	201	-	-	11/24/74/74	0/4/4/4
29	PEB	AE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	SL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	gL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	g1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	Q9	202	-	-	8/24/74/74	0/4/4/4
31	CYC	IF	1001	4	-	8/25/74/74	0/4/4/4
29	PEB	BC	202	-	-	8/24/74/74	0/4/4/4
31	CYC	sP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	GA	201	-	-	10/24/74/74	0/4/4/4
29	PEB	T2	201	7	-	9/24/74/74	0/4/4/4
29	PEB	GE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	l7	201	-	-	8/24/74/74	0/4/4/4
30	PUB	yL	302	-	-	7/24/74/74	0/4/4/4
29	PEB	IE	202	-	-	8/24/74/74	0/4/4/4
29	PEB	FC	203	-	-	9/24/74/74	0/4/4/4
29	PEB	PJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	HQ	201	-	-	10/24/74/74	0/4/4/4
29	PEB	Q2	201	-	-	7/24/74/74	0/4/4/4
29	PEB	aI	202	-	-	7/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	HA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	E4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	TM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	cJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	IC	202	-	-	8/24/74/74	0/4/4/4
31	CYC	N9	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	D3	202	-	-	12/24/74/74	0/4/4/4
29	PEB	XL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	DE	201	-	-	6/24/74/74	0/4/4/4
29	PEB	k7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	j1	203	-	-	6/24/74/74	0/4/4/4
29	PEB	NR	203	-	-	12/24/74/74	0/4/4/4
29	PEB	F3	202	-	-	9/24/74/74	0/4/4/4
31	CYC	vP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	E3	201	-	-	4/24/74/74	0/4/4/4
29	PEB	dM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	sL	202	-	-	10/24/74/74	0/4/4/4
29	PEB	i9	201	-	-	4/24/74/74	0/4/4/4
29	PEB	LE	203	-	-	9/24/74/74	0/4/4/4
29	PEB	T9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	QM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	jJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	bF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	YK	202	-	-	6/24/74/74	0/4/4/4
32	PMS	kH	301	-	-	2/5/5/5	0/1/1/1
29	PEB	MJ	201	-	-	9/24/74/74	0/4/4/4
29	PEB	FL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	BQ	202	-	-	6/24/74/74	0/4/4/4
29	PEB	i7	202	-	-	9/24/74/74	0/4/4/4
29	PEB	DN	201	-	-	12/24/74/74	0/4/4/4
31	CYC	GK	1001	4	-	9/25/74/74	0/4/4/4
29	PEB	DK	1002	5	-	8/24/74/74	0/4/4/4
29	PEB	IL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	lF	201	-	-	6/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	PUB	AK	304	-	-	4/24/74/74	0/4/4/4
29	PEB	XJ	202	-	-	9/24/74/74	0/4/4/4
29	PEB	wJ	302	-	-	7/24/74/74	0/4/4/4
29	PEB	bK	201	-	-	8/24/74/74	0/4/4/4
29	PEB	e1	202	-	-	6/24/74/74	0/4/4/4
29	PEB	ZL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	YB	203	-	-	10/24/74/74	0/4/4/4
29	PEB	W1	201	-	-	8/24/74/74	0/4/4/4
29	PEB	OB	202	-	-	10/24/74/74	0/4/4/4
29	PEB	XL	201	-	-	7/24/74/74	0/4/4/4
29	PEB	gI	202	-	-	7/24/74/74	0/4/4/4
29	PEB	IN	201	-	-	10/24/74/74	0/4/4/4
30	PUB	MG	402	14	-	15/24/74/74	0/4/4/4
31	CYC	nP	1001	-	-	8/25/74/74	0/4/4/4
31	CYC	FI	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	KM	203	-	-	6/24/74/74	0/4/4/4
29	PEB	JJ	203	-	-	13/24/74/74	0/4/4/4
31	CYC	H9	1001	5	-	9/25/74/74	0/4/4/4
29	PEB	rL	202	-	-	9/24/74/74	0/4/4/4
29	PEB	f9	201	-	-	8/24/74/74	0/4/4/4
29	PEB	H3	202	-	-	9/24/74/74	0/4/4/4
29	PEB	VM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	LL	202	-	-	13/24/74/74	0/4/4/4
29	PEB	AA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	QB	202	-	-	6/24/74/74	0/4/4/4
29	PEB	OR	201	-	-	7/24/74/74	0/4/4/4
29	PEB	ZF	202	-	-	8/24/74/74	0/4/4/4
29	PEB	JG	202	-	-	6/24/74/74	0/4/4/4
29	PEB	LB	203	-	-	13/24/74/74	0/4/4/4
29	PEB	EO	202	-	-	9/24/74/74	0/4/4/4
31	CYC	C9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	F8	202	-	-	10/24/74/74	0/4/4/4
29	PEB	dI	202	-	-	6/24/74/74	0/4/4/4
29	PEB	g9	202	-	-	9/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	mL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	mM	201	-	-	6/24/74/74	0/4/4/4
29	PEB	jK	203	-	-	6/24/74/74	0/4/4/4
31	CYC	M9	1001	-	-	7/25/74/74	0/4/4/4
29	PEB	PJ	201	-	-	7/24/74/74	0/4/4/4
29	PEB	LC	203	-	-	9/24/74/74	0/4/4/4
29	PEB	DA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	LD	201	-	-	9/24/74/74	0/4/4/4
29	PEB	CN	202	-	-	16/24/74/74	0/4/4/4
31	CYC	oP	1001	-	-	8/25/74/74	0/4/4/4
29	PEB	A9	305	-	-	10/24/74/74	0/4/4/4
29	PEB	IM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	k1	201	-	-	6/24/74/74	0/4/4/4
29	PEB	CN	201	-	-	10/24/74/74	0/4/4/4
29	PEB	IA	202	-	-	16/24/74/74	0/4/4/4
29	PEB	bJ	203	-	-	13/24/74/74	0/4/4/4
29	PEB	A1	301	-	-	10/24/74/74	0/4/4/4
31	CYC	JF	1001	5	-	7/25/74/74	0/4/4/4
29	PEB	HN	202	-	-	11/24/74/74	0/4/4/4
29	PEB	AB	303	-	-	13/24/74/74	0/4/4/4
29	PEB	FA	203	-	-	9/24/74/74	0/4/4/4
29	PEB	aI	201	-	-	11/24/74/74	0/4/4/4
29	PEB	I4	202	-	-	12/24/74/74	0/4/4/4
29	PEB	VI	203	-	-	14/24/74/74	0/4/4/4
29	PEB	dI	203	-	-	8/24/74/74	0/4/4/4
29	PEB	LM	202	-	-	6/24/74/74	0/4/4/4
29	PEB	tL	202	-	-	13/24/74/74	0/4/4/4
29	PEB	XR	202	-	-	7/24/74/74	0/4/4/4
29	PEB	C8	201	-	-	6/24/74/74	0/4/4/4
30	PUB	yJ	302	-	-	7/24/74/74	0/4/4/4
29	PEB	a9	203	-	-	12/24/74/74	0/4/4/4
29	PEB	LN	203	-	-	9/24/74/74	0/4/4/4
29	PEB	M2	202	-	-	10/24/74/74	0/4/4/4
29	PEB	HC	202	-	-	8/24/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
29	PEB	DI	1002	-	-	13/24/74/74	0/4/4/4
29	PEB	m7	203	-	-	12/24/74/74	0/4/4/4
29	PEB	EM	201	-	-	5/24/74/74	0/4/4/4
29	PEB	UJ	202	-	-	10/24/74/74	0/4/4/4
29	PEB	eL	201	-	-	9/24/74/74	0/4/4/4
29	PEB	N3	201	-	-	6/24/74/74	0/4/4/4

All (15197) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	VP	1001	CYC	CHA-C1A	19.85	1.51	1.35
31	xP	1001	CYC	CHA-C1A	19.80	1.51	1.35
29	C3	202	PEB	CHB-C4B	18.15	1.50	1.35
29	CO	202	PEB	CHB-C4B	18.15	1.50	1.35
29	A3	202	PEB	CHB-C4B	18.14	1.50	1.35
29	AO	202	PEB	CHB-C4B	18.14	1.50	1.35
29	E3	202	PEB	CHB-C4B	18.12	1.50	1.35
29	EO	202	PEB	CHB-C4B	18.12	1.50	1.35
29	I3	202	PEB	CHB-C4B	18.04	1.50	1.35
29	IO	202	PEB	CHB-C4B	18.04	1.50	1.35
29	G3	202	PEB	CHB-C4B	18.04	1.50	1.35
29	GO	202	PEB	CHB-C4B	18.04	1.50	1.35
29	K3	202	PEB	CHB-C4B	18.00	1.50	1.35
29	KO	202	PEB	CHB-C4B	18.00	1.50	1.35
29	M2	202	PEB	CHB-C4B	17.93	1.50	1.35
29	W2	202	PEB	CHB-C4B	17.92	1.50	1.35
29	S2	202	PEB	CHB-C4B	17.87	1.50	1.35
29	UR	202	PEB	CHB-C4B	17.84	1.50	1.35
29	O2	202	PEB	CHB-C4B	17.84	1.50	1.35
29	Q2	202	PEB	CHB-C4B	17.79	1.50	1.35
29	U2	202	PEB	CHB-C4B	17.74	1.49	1.35
29	QR	202	PEB	CHB-C4B	17.74	1.49	1.35
29	SR	202	PEB	CHB-C4B	17.74	1.49	1.35
29	WR	202	PEB	CHB-C4B	17.74	1.49	1.35
29	FC	201	PEB	CHB-C4B	17.61	1.49	1.35
29	FE	201	PEB	CHB-C4B	17.61	1.49	1.35
31	WP	1001	CYC	CHA-C1A	17.56	1.49	1.35
29	BC	201	PEB	CHB-C4B	17.55	1.49	1.35
29	BE	201	PEB	CHB-C4B	17.55	1.49	1.35
29	HC	201	PEB	CHB-C4B	17.53	1.49	1.35
29	HE	201	PEB	CHB-C4B	17.53	1.49	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	yP	1001	CYC	CHA-C1A	17.51	1.49	1.35
29	DC	201	PEB	CHB-C4B	17.50	1.49	1.35
29	DE	201	PEB	CHB-C4B	17.50	1.49	1.35
29	JC	201	PEB	CHB-C4B	17.45	1.49	1.35
29	JE	201	PEB	CHB-C4B	17.45	1.49	1.35
29	LC	201	PEB	CHB-C4B	17.42	1.49	1.35
29	LE	201	PEB	CHB-C4B	17.42	1.49	1.35
31	1P	1002	CYC	CHA-C1A	17.32	1.49	1.35
31	YP	1000	CYC	CHA-C1A	17.23	1.49	1.35
30	A1	304	PUB	CHB-C1C	17.11	1.49	1.35
30	AK	304	PUB	CHB-C1C	17.11	1.49	1.35
31	vP	1001	CYC	CHA-C1A	17.05	1.49	1.35
31	cP	1001	CYC	CHA-C1A	17.03	1.49	1.35
31	TP	1001	CYC	CHA-C1A	17.01	1.49	1.35
31	mP	1001	CYC	CHA-C1A	17.01	1.49	1.35
29	m7	203	PEB	CHB-C4B	17.00	1.49	1.35
29	m9	203	PEB	CHB-C4B	17.00	1.49	1.35
31	EP	1001	CYC	CHA-C1A	16.99	1.49	1.35
31	NP	1001	CYC	CHA-C1A	16.99	1.49	1.35
31	iP	1001	CYC	CHA-C1A	16.99	1.49	1.35
31	JP	1001	CYC	CHA-C1A	16.96	1.49	1.35
31	pP	1001	CYC	CHA-C1A	16.95	1.49	1.35
29	T7	203	PEB	CHB-C4B	16.94	1.49	1.35
29	T9	203	PEB	CHB-C4B	16.94	1.49	1.35
29	Y7	203	PEB	CHB-C4B	16.94	1.49	1.35
29	Y9	203	PEB	CHB-C4B	16.94	1.49	1.35
31	CP	1001	CYC	CHA-C1A	16.93	1.49	1.35
31	tP	1001	CYC	CHA-C1A	16.92	1.49	1.35
31	GP	1001	CYC	CHA-C1A	16.92	1.49	1.35
31	rP	1001	CYC	CHA-C1A	16.91	1.49	1.35
29	c7	203	PEB	CHB-C4B	16.90	1.49	1.35
29	c9	203	PEB	CHB-C4B	16.90	1.49	1.35
31	eP	1001	CYC	CHA-C1A	16.90	1.49	1.35
31	RP	1001	CYC	CHA-C1A	16.90	1.49	1.35
31	PP	1001	CYC	CHA-C1A	16.89	1.49	1.35
29	i7	203	PEB	CHB-C4B	16.89	1.49	1.35
29	i9	203	PEB	CHB-C4B	16.89	1.49	1.35
31	gP	1001	CYC	CHA-C1A	16.89	1.49	1.35
29	g7	203	PEB	CHB-C4B	16.88	1.49	1.35
29	g9	203	PEB	CHB-C4B	16.88	1.49	1.35
31	KP	1001	CYC	CHA-C1A	16.88	1.49	1.35
31	AP	1001	CYC	CHA-C1A	16.88	1.49	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	lP	1001	CYC	CHA-C1A	16.87	1.49	1.35
29	e7	203	PEB	CHB-C4B	16.86	1.49	1.35
29	e9	203	PEB	CHB-C4B	16.86	1.49	1.35
29	a7	203	PEB	CHB-C4B	16.84	1.49	1.35
29	k7	203	PEB	CHB-C4B	16.84	1.49	1.35
29	a9	203	PEB	CHB-C4B	16.84	1.49	1.35
29	k9	203	PEB	CHB-C4B	16.84	1.49	1.35
29	R7	203	PEB	CHB-C4B	16.80	1.49	1.35
29	R9	203	PEB	CHB-C4B	16.80	1.49	1.35
29	P7	203	PEB	CHB-C4B	16.80	1.49	1.35
29	P9	203	PEB	CHB-C4B	16.80	1.49	1.35
30	QB	201	PUB	CHB-C1C	16.79	1.49	1.35
30	QM	201	PUB	CHB-C1C	16.79	1.49	1.35
29	V7	203	PEB	CHB-C4B	16.78	1.49	1.35
29	V9	203	PEB	CHB-C4B	16.78	1.49	1.35
29	F3	201	PEB	CHB-C4B	16.77	1.49	1.35
29	FO	201	PEB	CHB-C4B	16.77	1.49	1.35
29	B3	201	PEB	CHB-C4B	16.77	1.49	1.35
29	BO	201	PEB	CHB-C4B	16.77	1.49	1.35
29	wJ	303	PEB	CHB-C4B	16.76	1.49	1.35
29	xJ	303	PEB	CHB-C4B	16.75	1.49	1.35
29	AC	201	PEB	CHB-C4B	16.74	1.49	1.35
29	AE	201	PEB	CHB-C4B	16.74	1.49	1.35
29	D3	201	PEB	CHB-C4B	16.73	1.49	1.35
29	DO	201	PEB	CHB-C4B	16.73	1.49	1.35
29	wL	303	PEB	CHB-C4B	16.72	1.49	1.35
29	xL	303	PEB	CHB-C4B	16.72	1.49	1.35
29	J3	201	PEB	CHB-C4B	16.71	1.49	1.35
29	CC	201	PEB	CHB-C4B	16.71	1.49	1.35
29	CE	201	PEB	CHB-C4B	16.71	1.49	1.35
29	JO	201	PEB	CHB-C4B	16.71	1.49	1.35
29	L3	201	PEB	CHB-C4B	16.69	1.49	1.35
29	LO	201	PEB	CHB-C4B	16.69	1.49	1.35
29	H3	201	PEB	CHB-C4B	16.68	1.49	1.35
29	HO	201	PEB	CHB-C4B	16.68	1.49	1.35
29	GC	201	PEB	CHB-C4B	16.68	1.49	1.35
29	GE	201	PEB	CHB-C4B	16.68	1.49	1.35
29	EC	201	PEB	CHB-C4B	16.67	1.49	1.35
29	EE	201	PEB	CHB-C4B	16.67	1.49	1.35
29	S2	201	PEB	CHB-C4B	16.65	1.49	1.35
29	P2	202	PEB	CHB-C4B	16.65	1.49	1.35
29	IC	201	PEB	CHB-C4B	16.64	1.49	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	IE	201	PEB	CHB-C4B	16.64	1.49	1.35
29	X2	202	PEB	CHB-C4B	16.63	1.49	1.35
29	XR	203	PEB	CHB-C4B	16.63	1.49	1.35
29	NR	203	PEB	CHB-C4B	16.62	1.49	1.35
29	RR	203	PEB	CHB-C4B	16.61	1.49	1.35
29	KC	202	PEB	CHB-C4B	16.60	1.49	1.35
29	KE	202	PEB	CHB-C4B	16.60	1.49	1.35
29	MR	202	PEB	CHB-C4B	16.58	1.49	1.35
29	KG	202	PEB	CHB-C4B	16.58	1.49	1.35
29	KQ	202	PEB	CHB-C4B	16.58	1.49	1.35
29	VR	203	PEB	CHB-C4B	16.58	1.49	1.35
29	R2	203	PEB	CHB-C4B	16.57	1.49	1.35
29	gF	203	PEB	CHB-C4B	16.57	1.49	1.35
29	gI	203	PEB	CHB-C4B	16.57	1.49	1.35
29	wJ	302	PEB	CHB-C4B	16.56	1.49	1.35
29	wL	302	PEB	CHB-C4B	16.55	1.48	1.35
29	PR	202	PEB	CHB-C4B	16.55	1.48	1.35
29	xL	302	PEB	CHB-C4B	16.55	1.48	1.35
29	IG	202	PEB	CHB-C4B	16.54	1.48	1.35
29	IQ	202	PEB	CHB-C4B	16.54	1.48	1.35
29	T2	203	PEB	CHB-C4B	16.53	1.48	1.35
29	kF	203	PEB	CHB-C4B	16.53	1.48	1.35
29	kI	203	PEB	CHB-C4B	16.53	1.48	1.35
29	TR	203	PEB	CHB-C4B	16.53	1.48	1.35
29	iF	203	PEB	CHB-C4B	16.53	1.48	1.35
29	iI	203	PEB	CHB-C4B	16.53	1.48	1.35
29	AG	202	PEB	CHB-C4B	16.52	1.48	1.35
29	EG	202	PEB	CHB-C4B	16.52	1.48	1.35
29	AQ	202	PEB	CHB-C4B	16.52	1.48	1.35
29	EQ	202	PEB	CHB-C4B	16.52	1.48	1.35
29	N2	203	PEB	CHB-C4B	16.52	1.48	1.35
29	TF	202	PEB	CHB-C4B	16.52	1.48	1.35
29	TI	202	PEB	CHB-C4B	16.52	1.48	1.35
29	A1	302	PEB	CHB-C4B	16.51	1.48	1.35
29	AK	302	PEB	CHB-C4B	16.51	1.48	1.35
29	xJ	302	PEB	CHB-C4B	16.50	1.48	1.35
29	YF	203	PEB	CHB-C4B	16.49	1.48	1.35
29	YI	203	PEB	CHB-C4B	16.49	1.48	1.35
29	GC	202	PEB	CHB-C4B	16.49	1.48	1.35
29	GE	202	PEB	CHB-C4B	16.49	1.48	1.35
29	eF	203	PEB	CHB-C4B	16.48	1.48	1.35
29	eI	203	PEB	CHB-C4B	16.48	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CG	202	PEB	CHB-C4B	16.48	1.48	1.35
29	CQ	202	PEB	CHB-C4B	16.48	1.48	1.35
29	D3	202	PEB	CHB-C4B	16.48	1.48	1.35
29	GG	202	PEB	CHB-C4B	16.47	1.48	1.35
29	GQ	202	PEB	CHB-C4B	16.47	1.48	1.35
29	AC	202	PEB	CHB-C4B	16.47	1.48	1.35
29	AE	202	PEB	CHB-C4B	16.47	1.48	1.35
29	RF	202	PEB	CHB-C4B	16.47	1.48	1.35
29	RI	202	PEB	CHB-C4B	16.47	1.48	1.35
29	SR	201	PEB	CHB-C4B	16.47	1.48	1.35
29	cF	202	PEB	CHB-C4B	16.46	1.48	1.35
29	cI	202	PEB	CHB-C4B	16.46	1.48	1.35
29	V2	203	PEB	CHB-C4B	16.46	1.48	1.35
29	EC	202	PEB	CHB-C4B	16.46	1.48	1.35
29	EE	202	PEB	CHB-C4B	16.46	1.48	1.35
30	MQ	405	PUB	CHB-C1C	16.45	1.48	1.35
29	TF	201	PEB	CHB-C4B	16.43	1.48	1.35
29	CC	202	PEB	CHB-C4B	16.43	1.48	1.35
29	CE	202	PEB	CHB-C4B	16.43	1.48	1.35
29	PF	203	PEB	CHB-C4B	16.43	1.48	1.35
29	PI	203	PEB	CHB-C4B	16.43	1.48	1.35
29	DO	202	PEB	CHB-C4B	16.43	1.48	1.35
29	aF	203	PEB	CHB-C4B	16.42	1.48	1.35
29	aI	203	PEB	CHB-C4B	16.42	1.48	1.35
29	LC	203	PEB	CHB-C4B	16.42	1.48	1.35
29	LE	203	PEB	CHB-C4B	16.42	1.48	1.35
29	mF	203	PEB	CHB-C4B	16.42	1.48	1.35
29	mI	203	PEB	CHB-C4B	16.42	1.48	1.35
29	KC	203	PEB	CHB-C4B	16.41	1.48	1.35
29	KE	203	PEB	CHB-C4B	16.41	1.48	1.35
29	IC	202	PEB	CHB-C4B	16.40	1.48	1.35
29	IE	202	PEB	CHB-C4B	16.40	1.48	1.35
29	cF	201	PEB	CHB-C4B	16.40	1.48	1.35
29	cI	201	PEB	CHB-C4B	16.40	1.48	1.35
29	VF	203	PEB	CHB-C4B	16.39	1.48	1.35
29	VI	203	PEB	CHB-C4B	16.39	1.48	1.35
29	VF	201	PEB	CHB-C4B	16.37	1.48	1.35
29	VI	201	PEB	CHB-C4B	16.37	1.48	1.35
30	MG	403	PUB	CHB-C1C	16.37	1.48	1.35
29	HC	203	PEB	CHB-C4B	16.36	1.48	1.35
29	HE	203	PEB	CHB-C4B	16.36	1.48	1.35
29	AM	302	PEB	CHB-C4B	16.36	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BC	203	PEB	CHB-C4B	16.36	1.48	1.35
29	BE	203	PEB	CHB-C4B	16.36	1.48	1.35
30	AF	302	PUB	CHB-C1C	16.36	1.48	1.35
30	AI	302	PUB	CHB-C1C	16.36	1.48	1.35
29	mF	201	PEB	CHB-C4B	16.35	1.48	1.35
29	mI	201	PEB	CHB-C4B	16.35	1.48	1.35
29	HQ	203	PEB	CHB-C4B	16.35	1.48	1.35
29	AB	302	PEB	CHB-C4B	16.35	1.48	1.35
30	yL	303	PUB	CHB-C1C	16.34	1.48	1.35
29	M4	203	PEB	CHB-C4B	16.34	1.48	1.35
29	HG	203	PEB	CHB-C4B	16.34	1.48	1.35
29	NJ	203	PEB	CHB-C4B	16.34	1.48	1.35
29	NL	203	PEB	CHB-C4B	16.34	1.48	1.35
29	JC	202	PEB	CHB-C4B	16.34	1.48	1.35
29	JE	202	PEB	CHB-C4B	16.34	1.48	1.35
29	gF	201	PEB	CHB-C4B	16.34	1.48	1.35
29	gI	201	PEB	CHB-C4B	16.34	1.48	1.35
29	JG	203	PEB	CHB-C4B	16.33	1.48	1.35
29	L3	202	PEB	CHB-C4B	16.33	1.48	1.35
29	tJ	201	PEB	CHB-C4B	16.33	1.48	1.35
29	tL	201	PEB	CHB-C4B	16.33	1.48	1.35
29	LO	202	PEB	CHB-C4B	16.33	1.48	1.35
29	DG	203	PEB	CHB-C4B	16.33	1.48	1.35
29	JJ	201	PEB	CHB-C4B	16.33	1.48	1.35
29	JL	201	PEB	CHB-C4B	16.33	1.48	1.35
29	vJ	201	PEB	CHB-C4B	16.32	1.48	1.35
29	vL	201	PEB	CHB-C4B	16.32	1.48	1.35
29	F3	203	PEB	CHB-C4B	16.32	1.48	1.35
29	FO	203	PEB	CHB-C4B	16.32	1.48	1.35
29	BJ	201	PEB	CHB-C4B	16.31	1.48	1.35
29	BL	201	PEB	CHB-C4B	16.31	1.48	1.35
29	H3	203	PEB	CHB-C4B	16.31	1.48	1.35
29	HO	203	PEB	CHB-C4B	16.31	1.48	1.35
29	YF	201	PEB	CHB-C4B	16.31	1.48	1.35
29	YI	201	PEB	CHB-C4B	16.31	1.48	1.35
29	YB	203	PEB	CHB-C4B	16.30	1.48	1.35
29	YM	203	PEB	CHB-C4B	16.30	1.48	1.35
29	vJ	202	PEB	CHB-C4B	16.30	1.48	1.35
29	vL	202	PEB	CHB-C4B	16.30	1.48	1.35
29	J3	203	PEB	CHB-C4B	16.30	1.48	1.35
29	lB	202	PEB	CHB-C4B	16.30	1.48	1.35
29	RF	201	PEB	CHB-C4B	16.30	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	RI	201	PEB	CHB-C4B	16.30	1.48	1.35
29	IM	202	PEB	CHB-C4B	16.30	1.48	1.35
29	JO	203	PEB	CHB-C4B	16.30	1.48	1.35
29	JQ	203	PEB	CHB-C4B	16.30	1.48	1.35
29	QB	204	PEB	CHB-C4B	16.30	1.48	1.35
29	QM	204	PEB	CHB-C4B	16.30	1.48	1.35
29	J3	202	PEB	CHB-C4B	16.29	1.48	1.35
29	ZJ	201	PEB	CHB-C4B	16.29	1.48	1.35
29	ZL	201	PEB	CHB-C4B	16.29	1.48	1.35
29	JO	202	PEB	CHB-C4B	16.29	1.48	1.35
29	TI	201	PEB	CHB-C4B	16.29	1.48	1.35
29	B3	202	PEB	CHB-C4B	16.29	1.48	1.35
29	BO	202	PEB	CHB-C4B	16.29	1.48	1.35
29	BG	203	PEB	CHB-C4B	16.29	1.48	1.35
29	aF	201	PEB	CHB-C4B	16.29	1.48	1.35
29	aI	201	PEB	CHB-C4B	16.29	1.48	1.35
29	DC	202	PEB	CHB-C4B	16.29	1.48	1.35
29	DE	202	PEB	CHB-C4B	16.29	1.48	1.35
29	hF	202	PEB	CHB-C4B	16.28	1.48	1.35
29	hI	202	PEB	CHB-C4B	16.28	1.48	1.35
29	TJ	203	PEB	CHB-C4B	16.28	1.48	1.35
29	TL	203	PEB	CHB-C4B	16.28	1.48	1.35
29	DQ	203	PEB	CHB-C4B	16.28	1.48	1.35
29	FC	203	PEB	CHB-C4B	16.28	1.48	1.35
29	FE	203	PEB	CHB-C4B	16.28	1.48	1.35
29	DJ	202	PEB	CHB-C4B	16.28	1.48	1.35
29	DL	202	PEB	CHB-C4B	16.28	1.48	1.35
29	PF	201	PEB	CHB-C4B	16.28	1.48	1.35
29	PI	201	PEB	CHB-C4B	16.28	1.48	1.35
29	FQ	203	PEB	CHB-C4B	16.28	1.48	1.35
29	FJ	203	PEB	CHB-C4B	16.28	1.48	1.35
29	FL	203	PEB	CHB-C4B	16.28	1.48	1.35
29	NJ	201	PEB	CHB-C4B	16.27	1.48	1.35
29	NL	201	PEB	CHB-C4B	16.27	1.48	1.35
29	RJ	203	PEB	CHB-C4B	16.27	1.48	1.35
29	RL	203	PEB	CHB-C4B	16.27	1.48	1.35
29	OB	202	PEB	CHB-C4B	16.27	1.48	1.35
29	OM	202	PEB	CHB-C4B	16.27	1.48	1.35
29	eF	201	PEB	CHB-C4B	16.27	1.48	1.35
29	eI	201	PEB	CHB-C4B	16.27	1.48	1.35
29	tJ	202	PEB	CHB-C4B	16.27	1.48	1.35
29	tL	202	PEB	CHB-C4B	16.27	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kF	201	PEB	CHB-C4B	16.27	1.48	1.35
29	kI	201	PEB	CHB-C4B	16.27	1.48	1.35
29	FJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	FL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	NO	202	PEB	CHB-C4B	16.26	1.48	1.35
29	fJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	nJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	fL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	nL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	AB	303	PEB	CHB-C4B	16.26	1.48	1.35
29	jJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	lJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	jL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	lL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	LJ	201	PEB	CHB-C4B	16.26	1.48	1.35
29	fJ	203	PEB	CHB-C4B	16.26	1.48	1.35
29	LL	201	PEB	CHB-C4B	16.26	1.48	1.35
29	fL	203	PEB	CHB-C4B	16.26	1.48	1.35
29	OR	202	PEB	CHB-C4B	16.26	1.48	1.35
29	KB	202	PEB	CHB-C4B	16.25	1.48	1.35
29	bF	202	PEB	CHB-C4B	16.25	1.48	1.35
29	bI	202	PEB	CHB-C4B	16.25	1.48	1.35
29	HJ	202	PEB	CHB-C4B	16.25	1.48	1.35
29	HL	202	PEB	CHB-C4B	16.25	1.48	1.35
29	KM	202	PEB	CHB-C4B	16.25	1.48	1.35
29	WF	202	PEB	CHB-C4B	16.25	1.48	1.35
29	WI	202	PEB	CHB-C4B	16.25	1.48	1.35
29	VJ	202	PEB	CHB-C4B	16.25	1.48	1.35
29	VL	202	PEB	CHB-C4B	16.25	1.48	1.35
29	RJ	201	PEB	CHB-C4B	16.25	1.48	1.35
29	RL	201	PEB	CHB-C4B	16.25	1.48	1.35
29	dJ	203	PEB	CHB-C4B	16.25	1.48	1.35
29	dL	203	PEB	CHB-C4B	16.25	1.48	1.35
29	CB	202	PEB	CHB-C4B	16.25	1.48	1.35
29	CM	202	PEB	CHB-C4B	16.25	1.48	1.35
29	SB	202	PEB	CHB-C4B	16.25	1.48	1.35
29	SM	202	PEB	CHB-C4B	16.25	1.48	1.35
29	jJ	203	PEB	CHB-C4B	16.25	1.48	1.35
29	jL	203	PEB	CHB-C4B	16.25	1.48	1.35
29	jB	202	PEB	CHB-C4B	16.24	1.48	1.35
29	jM	202	PEB	CHB-C4B	16.24	1.48	1.35
29	K5	203	PEB	CHB-C4B	16.24	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	K8	203	PEB	CHB-C4B	16.24	1.48	1.35
29	B3	203	PEB	CHB-C4B	16.24	1.48	1.35
29	XJ	203	PEB	CHB-C4B	16.24	1.48	1.35
29	XL	203	PEB	CHB-C4B	16.24	1.48	1.35
29	BO	203	PEB	CHB-C4B	16.24	1.48	1.35
29	dJ	201	PEB	CHB-C4B	16.24	1.48	1.35
29	dL	201	PEB	CHB-C4B	16.24	1.48	1.35
30	yJ	303	PUB	CHB-C1C	16.24	1.48	1.35
29	FG	203	PEB	CHB-C4B	16.23	1.48	1.35
29	MB	202	PEB	CHB-C4B	16.23	1.48	1.35
29	MM	202	PEB	CHB-C4B	16.23	1.48	1.35
29	SF	202	PEB	CHB-C4B	16.23	1.48	1.35
29	iF	201	PEB	CHB-C4B	16.23	1.48	1.35
29	SI	202	PEB	CHB-C4B	16.23	1.48	1.35
29	iI	201	PEB	CHB-C4B	16.23	1.48	1.35
29	BQ	203	PEB	CHB-C4B	16.23	1.48	1.35
29	PJ	201	PEB	CHB-C4B	16.22	1.48	1.35
29	rJ	203	PEB	CHB-C4B	16.22	1.48	1.35
29	PL	201	PEB	CHB-C4B	16.22	1.48	1.35
29	rL	203	PEB	CHB-C4B	16.22	1.48	1.35
29	hB	202	PEB	CHB-C4B	16.22	1.48	1.35
29	hM	202	PEB	CHB-C4B	16.22	1.48	1.35
29	N3	202	PEB	CHB-C4B	16.22	1.48	1.35
29	bJ	201	PEB	CHB-C4B	16.22	1.48	1.35
29	bL	201	PEB	CHB-C4B	16.22	1.48	1.35
29	BJ	203	PEB	CHB-C4B	16.22	1.48	1.35
29	BL	203	PEB	CHB-C4B	16.22	1.48	1.35
29	pJ	203	PEB	CHB-C4B	16.22	1.48	1.35
29	pL	203	PEB	CHB-C4B	16.22	1.48	1.35
29	hJ	201	PEB	CHB-C4B	16.22	1.48	1.35
29	hL	201	PEB	CHB-C4B	16.22	1.48	1.35
29	aB	202	PEB	CHB-C4B	16.21	1.48	1.35
29	aM	202	PEB	CHB-C4B	16.21	1.48	1.35
29	F3	202	PEB	CHB-C4B	16.21	1.48	1.35
29	bJ	203	PEB	CHB-C4B	16.21	1.48	1.35
29	bL	203	PEB	CHB-C4B	16.21	1.48	1.35
29	FO	202	PEB	CHB-C4B	16.21	1.48	1.35
29	nJ	203	PEB	CHB-C4B	16.21	1.48	1.35
29	zJ	501	PEB	CHB-C4B	16.21	1.48	1.35
29	nL	203	PEB	CHB-C4B	16.21	1.48	1.35
29	VJ	201	PEB	CHB-C4B	16.21	1.48	1.35
29	VL	201	PEB	CHB-C4B	16.21	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I5	203	PEB	CHB-C4B	16.21	1.48	1.35
29	I8	203	PEB	CHB-C4B	16.21	1.48	1.35
29	M3	202	PEB	CHB-C4B	16.21	1.48	1.35
29	dF	203	PEB	CHB-C4B	16.21	1.48	1.35
29	dI	203	PEB	CHB-C4B	16.21	1.48	1.35
29	PJ	203	PEB	CHB-C4B	16.21	1.48	1.35
29	PL	203	PEB	CHB-C4B	16.21	1.48	1.35
29	MO	202	PEB	CHB-C4B	16.21	1.48	1.35
29	A5	203	PEB	CHB-C4B	16.20	1.48	1.35
29	A8	203	PEB	CHB-C4B	16.20	1.48	1.35
29	IB	202	PEB	CHB-C4B	16.20	1.48	1.35
29	TJ	201	PEB	CHB-C4B	16.20	1.48	1.35
29	TL	201	PEB	CHB-C4B	16.20	1.48	1.35
29	IM	202	PEB	CHB-C4B	16.20	1.48	1.35
29	IF	202	PEB	CHB-C4B	16.20	1.48	1.35
29	II	202	PEB	CHB-C4B	16.20	1.48	1.35
29	dB	202	PEB	CHB-C4B	16.20	1.48	1.35
29	dM	202	PEB	CHB-C4B	16.20	1.48	1.35
29	D3	203	PEB	CHB-C4B	16.20	1.48	1.35
29	DO	203	PEB	CHB-C4B	16.20	1.48	1.35
29	I3	203	PEB	CHB-C4B	16.20	1.48	1.35
29	IO	203	PEB	CHB-C4B	16.20	1.48	1.35
29	WB	202	PEB	CHB-C4B	16.20	1.48	1.35
29	WM	202	PEB	CHB-C4B	16.20	1.48	1.35
29	jF	202	PEB	CHB-C4B	16.19	1.48	1.35
29	jI	202	PEB	CHB-C4B	16.19	1.48	1.35
30	AB	305	PUB	CHB-C1C	16.19	1.48	1.35
29	DJ	201	PEB	CHB-C4B	16.19	1.48	1.35
29	DL	201	PEB	CHB-C4B	16.19	1.48	1.35
29	AM	303	PEB	CHB-C4B	16.18	1.48	1.35
29	H3	202	PEB	CHB-C4B	16.18	1.48	1.35
29	GB	202	PEB	CHB-C4B	16.18	1.48	1.35
29	GM	202	PEB	CHB-C4B	16.18	1.48	1.35
29	HO	202	PEB	CHB-C4B	16.18	1.48	1.35
29	OF	202	PEB	CHB-C4B	16.18	1.48	1.35
29	OI	202	PEB	CHB-C4B	16.18	1.48	1.35
29	LJ	202	PEB	CHB-C4B	16.18	1.48	1.35
29	hJ	203	PEB	CHB-C4B	16.18	1.48	1.35
29	LL	202	PEB	CHB-C4B	16.18	1.48	1.35
29	hL	203	PEB	CHB-C4B	16.18	1.48	1.35
29	lJ	203	PEB	CHB-C4B	16.18	1.48	1.35
29	lL	203	PEB	CHB-C4B	16.18	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LQ	202	PEB	CHB-C4B	16.17	1.48	1.35
29	UB	202	PEB	CHB-C4B	16.17	1.48	1.35
29	MQ	401	PEB	CHB-C4B	16.17	1.48	1.35
29	EB	202	PEB	CHB-C4B	16.17	1.48	1.35
29	EM	202	PEB	CHB-C4B	16.17	1.48	1.35
29	XJ	201	PEB	CHB-C4B	16.17	1.48	1.35
29	XL	201	PEB	CHB-C4B	16.17	1.48	1.35
29	C5	203	PEB	CHB-C4B	16.16	1.48	1.35
29	fB	202	PEB	CHB-C4B	16.16	1.48	1.35
29	fM	202	PEB	CHB-C4B	16.16	1.48	1.35
29	UF	203	PEB	CHB-C4B	16.15	1.48	1.35
29	UI	203	PEB	CHB-C4B	16.15	1.48	1.35
29	ZF	202	PEB	CHB-C4B	16.15	1.48	1.35
29	ZI	202	PEB	CHB-C4B	16.15	1.48	1.35
29	pJ	201	PEB	CHB-C4B	16.14	1.48	1.35
29	pL	201	PEB	CHB-C4B	16.14	1.48	1.35
29	C8	203	PEB	CHB-C4B	16.14	1.48	1.35
29	QF	202	PEB	CHB-C4B	16.14	1.48	1.35
29	QI	202	PEB	CHB-C4B	16.14	1.48	1.35
29	RR	201	PEB	CHB-C4B	16.13	1.48	1.35
29	ZJ	203	PEB	CHB-C4B	16.13	1.48	1.35
29	ZL	203	PEB	CHB-C4B	16.13	1.48	1.35
29	JJ	203	PEB	CHB-C4B	16.13	1.48	1.35
29	JL	203	PEB	CHB-C4B	16.13	1.48	1.35
29	fF	202	PEB	CHB-C4B	16.13	1.48	1.35
29	fI	202	PEB	CHB-C4B	16.13	1.48	1.35
30	AM	305	PUB	CHB-C1C	16.13	1.48	1.35
29	LG	203	PEB	CHB-C4B	16.12	1.48	1.35
29	rJ	201	PEB	CHB-C4B	16.11	1.48	1.35
29	rL	201	PEB	CHB-C4B	16.11	1.48	1.35
29	P1	203	PEB	CHB-C4B	16.10	1.48	1.35
29	PK	203	PEB	CHB-C4B	16.10	1.48	1.35
29	e2	402	PEB	CHB-C4B	16.09	1.48	1.35
29	V2	201	PEB	CHB-C4B	16.07	1.48	1.35
29	VR	201	PEB	CHB-C4B	16.07	1.48	1.35
29	N2	201	PEB	CHB-C4B	16.06	1.48	1.35
29	NR	201	PEB	CHB-C4B	16.06	1.48	1.35
29	zL	501	PEB	CHB-C4B	16.06	1.48	1.35
29	T2	201	PEB	CHB-C4B	16.05	1.48	1.35
29	TR	201	PEB	CHB-C4B	16.05	1.48	1.35
29	Y1	202	PEB	CHB-C4B	16.05	1.48	1.35
29	R2	201	PEB	CHB-C4B	16.05	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YK	202	PEB	CHB-C4B	16.05	1.48	1.35
29	XR	201	PEB	CHB-C4B	16.03	1.48	1.35
29	e1	203	PEB	CHB-C4B	16.03	1.48	1.35
29	eK	203	PEB	CHB-C4B	16.03	1.48	1.35
29	DF	1002	PEB	CHB-C4B	16.03	1.48	1.35
29	DI	1002	PEB	CHB-C4B	16.03	1.48	1.35
29	R1	203	PEB	CHB-C4B	16.01	1.48	1.35
29	RK	203	PEB	CHB-C4B	16.01	1.48	1.35
29	g1	203	PEB	CHB-C4B	16.00	1.48	1.35
29	gK	203	PEB	CHB-C4B	16.00	1.48	1.35
29	I4	203	PEB	CHB-C4B	16.00	1.48	1.35
29	V1	203	PEB	CHB-C4B	16.00	1.48	1.35
29	VK	203	PEB	CHB-C4B	16.00	1.48	1.35
29	HF	1002	PEB	CHB-C4B	16.00	1.48	1.35
29	HI	1002	PEB	CHB-C4B	16.00	1.48	1.35
29	FF	1002	PEB	CHB-C4B	15.98	1.48	1.35
29	FI	1002	PEB	CHB-C4B	15.98	1.48	1.35
29	m1	202	PEB	CHB-C4B	15.98	1.48	1.35
29	K5	201	PEB	CHB-C4B	15.98	1.48	1.35
29	K8	201	PEB	CHB-C4B	15.98	1.48	1.35
29	mK	202	PEB	CHB-C4B	15.98	1.48	1.35
29	JF	1002	PEB	CHB-C4B	15.97	1.48	1.35
29	JI	1002	PEB	CHB-C4B	15.97	1.48	1.35
29	k1	203	PEB	CHB-C4B	15.97	1.48	1.35
29	kK	203	PEB	CHB-C4B	15.97	1.48	1.35
29	a1	203	PEB	CHB-C4B	15.97	1.48	1.35
29	aK	203	PEB	CHB-C4B	15.97	1.48	1.35
29	LF	1002	PEB	CHB-C4B	15.96	1.48	1.35
29	LI	1002	PEB	CHB-C4B	15.96	1.48	1.35
29	T1	202	PEB	CHB-C4B	15.95	1.48	1.35
29	I5	201	PEB	CHB-C4B	15.95	1.48	1.35
29	I8	201	PEB	CHB-C4B	15.95	1.48	1.35
29	TK	202	PEB	CHB-C4B	15.95	1.48	1.35
29	c1	203	PEB	CHB-C4B	15.94	1.48	1.35
29	cK	203	PEB	CHB-C4B	15.94	1.48	1.35
29	NF	1002	PEB	CHB-C4B	15.94	1.48	1.35
29	NI	1002	PEB	CHB-C4B	15.94	1.48	1.35
29	A7	305	PEB	CHB-C4B	15.94	1.48	1.35
29	A9	305	PEB	CHB-C4B	15.94	1.48	1.35
29	i1	203	PEB	CHB-C4B	15.91	1.48	1.35
29	iK	203	PEB	CHB-C4B	15.91	1.48	1.35
29	mB	201	PEB	CHB-C4B	15.91	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mM	201	PEB	CHB-C4B	15.91	1.48	1.35
29	A5	201	PEB	CHB-C4B	15.91	1.48	1.35
29	A8	201	PEB	CHB-C4B	15.91	1.48	1.35
29	A7	304	PEB	CHB-C4B	15.91	1.48	1.35
29	A9	304	PEB	CHB-C4B	15.84	1.48	1.35
29	XB	201	PEB	CHB-C4B	15.84	1.48	1.35
29	XM	201	PEB	CHB-C4B	15.84	1.48	1.35
29	PB	201	PEB	CHB-C4B	15.84	1.48	1.35
29	PM	201	PEB	CHB-C4B	15.84	1.48	1.35
29	eB	201	PEB	CHB-C4B	15.83	1.48	1.35
29	eM	201	PEB	CHB-C4B	15.83	1.48	1.35
29	gB	201	PEB	CHB-C4B	15.83	1.48	1.35
29	gM	201	PEB	CHB-C4B	15.83	1.48	1.35
29	LB	201	PEB	CHB-C4B	15.83	1.48	1.35
29	LM	201	PEB	CHB-C4B	15.83	1.48	1.35
29	ZB	201	PEB	CHB-C4B	15.82	1.48	1.35
29	ZM	201	PEB	CHB-C4B	15.82	1.48	1.35
29	C5	201	PEB	CHB-C4B	15.80	1.48	1.35
29	C8	201	PEB	CHB-C4B	15.80	1.48	1.35
29	cB	201	PEB	CHB-C4B	15.80	1.48	1.35
29	cM	201	PEB	CHB-C4B	15.80	1.48	1.35
29	DG	201	PEB	CHB-C4B	15.80	1.48	1.35
29	DQ	201	PEB	CHB-C4B	15.80	1.48	1.35
29	B8	203	PEB	CHB-C4B	15.80	1.48	1.35
29	kB	201	PEB	CHB-C4B	15.78	1.48	1.35
29	kM	201	PEB	CHB-C4B	15.78	1.48	1.35
29	AF	305	PEB	CHB-C4B	15.78	1.48	1.35
29	AI	305	PEB	CHB-C4B	15.78	1.48	1.35
29	HB	201	PEB	CHB-C4B	15.78	1.48	1.35
29	NB	202	PEB	CHB-C4B	15.78	1.48	1.35
29	HM	201	PEB	CHB-C4B	15.78	1.48	1.35
29	NM	202	PEB	CHB-C4B	15.78	1.48	1.35
29	iB	201	PEB	CHB-C4B	15.77	1.48	1.35
29	iM	201	PEB	CHB-C4B	15.77	1.48	1.35
30	BB	302	PUB	CHB-C1C	15.77	1.48	1.35
30	BM	302	PUB	CHB-C1C	15.77	1.48	1.35
29	JB	201	PEB	CHB-C4B	15.77	1.48	1.35
29	JM	201	PEB	CHB-C4B	15.77	1.48	1.35
29	iB	203	PEB	CHB-C4B	15.77	1.48	1.35
29	iM	203	PEB	CHB-C4B	15.77	1.48	1.35
29	RB	203	PEB	CHB-C4B	15.77	1.48	1.35
29	RM	203	PEB	CHB-C4B	15.77	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AF	304	PEB	CHB-C4B	15.76	1.48	1.35
29	AI	304	PEB	CHB-C4B	15.76	1.48	1.35
29	VB	201	PEB	CHB-C4B	15.76	1.48	1.35
29	VM	201	PEB	CHB-C4B	15.76	1.48	1.35
29	DB	203	PEB	CHB-C4B	15.76	1.48	1.35
29	HB	203	PEB	CHB-C4B	15.76	1.48	1.35
29	DM	203	PEB	CHB-C4B	15.76	1.48	1.35
29	HM	203	PEB	CHB-C4B	15.76	1.48	1.35
29	NB	201	PEB	CHB-C4B	15.76	1.48	1.35
29	NM	201	PEB	CHB-C4B	15.76	1.48	1.35
29	ZB	203	PEB	CHB-C4B	15.76	1.48	1.35
29	ZM	203	PEB	CHB-C4B	15.76	1.48	1.35
29	XB	202	PEB	CHB-C4B	15.76	1.48	1.35
29	XM	202	PEB	CHB-C4B	15.76	1.48	1.35
29	FB	201	PEB	CHB-C4B	15.75	1.48	1.35
29	FM	201	PEB	CHB-C4B	15.75	1.48	1.35
29	gB	203	PEB	CHB-C4B	15.75	1.48	1.35
29	gM	203	PEB	CHB-C4B	15.75	1.48	1.35
29	G5	203	PEB	CHB-C4B	15.75	1.48	1.35
29	HK	1002	PEB	CHB-C4B	15.74	1.48	1.35
31	NK	1001	CYC	CHA-C1A	15.74	1.48	1.35
29	PB	202	PEB	CHB-C4B	15.74	1.48	1.35
29	PM	202	PEB	CHB-C4B	15.74	1.48	1.35
29	B8	201	PEB	CHB-C4B	15.73	1.48	1.35
31	D1	1001	CYC	CHA-C1A	15.73	1.48	1.35
29	LB	203	PEB	CHB-C4B	15.73	1.48	1.35
29	LM	203	PEB	CHB-C4B	15.73	1.48	1.35
29	g1	201	PEB	CHB-C4B	15.73	1.48	1.35
29	gK	201	PEB	CHB-C4B	15.73	1.48	1.35
29	H1	1002	PEB	CHB-C4B	15.73	1.48	1.35
31	L1	1001	CYC	CHA-C1A	15.73	1.48	1.35
31	LK	1001	CYC	CHA-C1A	15.73	1.48	1.35
31	N1	1001	CYC	CHA-C1A	15.72	1.48	1.35
29	RB	201	PEB	CHB-C4B	15.72	1.48	1.35
29	RM	201	PEB	CHB-C4B	15.72	1.48	1.35
29	H5	203	PEB	CHB-C4B	15.72	1.48	1.35
29	mB	203	PEB	CHB-C4B	15.72	1.48	1.35
29	mM	203	PEB	CHB-C4B	15.72	1.48	1.35
29	H8	201	PEB	CHB-C4B	15.71	1.48	1.35
29	HA	203	PEB	CHB-C4B	15.71	1.48	1.35
29	HN	203	PEB	CHB-C4B	15.71	1.48	1.35
29	DA	203	PEB	CHB-C4B	15.71	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	TB	203	PEB	CHB-C4B	15.71	1.48	1.35
29	TM	203	PEB	CHB-C4B	15.71	1.48	1.35
29	DN	203	PEB	CHB-C4B	15.71	1.48	1.35
29	e1	201	PEB	CHB-C4B	15.71	1.48	1.35
29	eK	201	PEB	CHB-C4B	15.71	1.48	1.35
31	OP	1001	CYC	CHA-C1A	15.71	1.48	1.35
29	I5	202	PEB	CHB-C4B	15.71	1.48	1.35
29	I8	202	PEB	CHB-C4B	15.71	1.48	1.35
29	G8	203	PEB	CHB-C4B	15.71	1.48	1.35
29	A8	202	PEB	CHB-C4B	15.71	1.48	1.35
29	FA	203	PEB	CHB-C4B	15.71	1.48	1.35
29	FN	203	PEB	CHB-C4B	15.71	1.48	1.35
31	F1	1001	CYC	CHA-C1A	15.71	1.48	1.35
31	FK	1001	CYC	CHA-C1A	15.71	1.48	1.35
29	DB	201	PEB	CHB-C4B	15.70	1.48	1.35
29	cB	203	PEB	CHB-C4B	15.70	1.48	1.35
29	kB	203	PEB	CHB-C4B	15.70	1.48	1.35
29	DM	201	PEB	CHB-C4B	15.70	1.48	1.35
29	cM	203	PEB	CHB-C4B	15.70	1.48	1.35
29	kM	203	PEB	CHB-C4B	15.70	1.48	1.35
29	B8	202	PEB	CHB-C4B	15.70	1.48	1.35
31	DK	1001	CYC	CHA-C1A	15.70	1.48	1.35
31	HK	1001	CYC	CHA-C1A	15.70	1.48	1.35
31	sP	1001	CYC	CHA-C1A	15.70	1.48	1.35
31	oP	1001	CYC	CHA-C1A	15.70	1.48	1.35
29	BA	203	PEB	CHB-C4B	15.70	1.48	1.35
29	VB	203	PEB	CHB-C4B	15.70	1.48	1.35
29	VM	203	PEB	CHB-C4B	15.70	1.48	1.35
29	BN	203	PEB	CHB-C4B	15.70	1.48	1.35
29	V1	201	PEB	CHB-C4B	15.70	1.48	1.35
29	Y1	201	PEB	CHB-C4B	15.70	1.48	1.35
29	TB	201	PEB	CHB-C4B	15.70	1.48	1.35
29	VK	201	PEB	CHB-C4B	15.70	1.48	1.35
29	YK	201	PEB	CHB-C4B	15.70	1.48	1.35
29	TM	201	PEB	CHB-C4B	15.70	1.48	1.35
31	QP	1001	CYC	CHA-C1A	15.70	1.48	1.35
29	eB	202	PEB	CHB-C4B	15.69	1.48	1.35
29	eM	202	PEB	CHB-C4B	15.69	1.48	1.35
29	LA	203	PEB	CHB-C4B	15.69	1.48	1.35
29	LN	203	PEB	CHB-C4B	15.69	1.48	1.35
31	J1	1001	CYC	CHA-C1A	15.69	1.48	1.35
31	JK	1001	CYC	CHA-C1A	15.69	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L8	203	PEB	CHB-C4B	15.69	1.48	1.35
29	FB	203	PEB	CHB-C4B	15.68	1.48	1.35
29	FM	203	PEB	CHB-C4B	15.68	1.48	1.35
29	B5	202	PEB	CHB-C4B	15.68	1.48	1.35
29	HG	201	PEB	CHB-C4B	15.68	1.48	1.35
29	HQ	201	PEB	CHB-C4B	15.68	1.48	1.35
29	F5	201	PEB	CHB-C4B	15.68	1.48	1.35
29	F8	201	PEB	CHB-C4B	15.68	1.48	1.35
29	G8	202	PEB	CHB-C4B	15.68	1.48	1.35
29	BG	201	PEB	CHB-C4B	15.68	1.48	1.35
29	BQ	201	PEB	CHB-C4B	15.68	1.48	1.35
31	fP	1001	CYC	CHA-C1A	15.68	1.48	1.35
29	FG	201	PEB	CHB-C4B	15.67	1.48	1.35
29	FQ	201	PEB	CHB-C4B	15.67	1.48	1.35
31	H1	1001	CYC	CHA-C1A	15.67	1.48	1.35
29	C5	202	PEB	CHB-C4B	15.67	1.48	1.35
29	C8	202	PEB	CHB-C4B	15.67	1.48	1.35
29	c1	201	PEB	CHB-C4B	15.67	1.48	1.35
29	cK	201	PEB	CHB-C4B	15.67	1.48	1.35
29	G5	201	PEB	CHB-C4B	15.67	1.48	1.35
29	H5	201	PEB	CHB-C4B	15.67	1.48	1.35
29	L5	202	PEB	CHB-C4B	15.67	1.48	1.35
29	JA	203	PEB	CHB-C4B	15.67	1.48	1.35
29	JN	203	PEB	CHB-C4B	15.67	1.48	1.35
31	HP	1001	CYC	CHA-C1A	15.67	1.48	1.35
29	m1	201	PEB	CHB-C4B	15.66	1.48	1.35
29	mK	201	PEB	CHB-C4B	15.66	1.48	1.35
31	XP	1001	CYC	CHA-C1A	15.66	1.48	1.35
29	JG	201	PEB	CHB-C4B	15.66	1.48	1.35
29	JQ	201	PEB	CHB-C4B	15.66	1.48	1.35
30	yJ	302	PUB	CHB-C1C	15.66	1.48	1.35
30	yL	302	PUB	CHB-C1C	15.66	1.48	1.35
29	L5	203	PEB	CHB-C4B	15.66	1.48	1.35
31	FP	1001	CYC	CHA-C1A	15.66	1.48	1.35
31	MP	1001	CYC	CHA-C1A	15.65	1.48	1.35
29	K5	202	PEB	CHB-C4B	15.65	1.48	1.35
29	F1	1002	PEB	CHB-C4B	15.65	1.48	1.35
29	FK	1002	PEB	CHB-C4B	15.65	1.48	1.35
29	k1	201	PEB	CHB-C4B	15.65	1.48	1.35
29	JB	203	PEB	CHB-C4B	15.65	1.48	1.35
29	kK	201	PEB	CHB-C4B	15.65	1.48	1.35
29	JM	203	PEB	CHB-C4B	15.65	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	G8	201	PEB	CHB-C4B	15.65	1.48	1.35
31	DP	1001	CYC	CHA-C1A	15.65	1.48	1.35
29	T1	201	PEB	CHB-C4B	15.64	1.48	1.35
29	LG	201	PEB	CHB-C4B	15.64	1.48	1.35
29	TK	201	PEB	CHB-C4B	15.64	1.48	1.35
29	MQ	402	PEB	CHB-C4B	15.64	1.48	1.35
29	G5	202	PEB	CHB-C4B	15.64	1.48	1.35
29	dB	201	PEB	CHB-C4B	15.64	1.48	1.35
29	dM	201	PEB	CHB-C4B	15.64	1.48	1.35
29	A5	202	PEB	CHB-C4B	15.64	1.48	1.35
29	EB	201	PEB	CHB-C4B	15.64	1.48	1.35
29	EM	201	PEB	CHB-C4B	15.64	1.48	1.35
29	a1	201	PEB	CHB-C4B	15.64	1.48	1.35
29	aK	201	PEB	CHB-C4B	15.64	1.48	1.35
29	B5	203	PEB	CHB-C4B	15.64	1.48	1.35
29	AM	301	PEB	CHB-C4B	15.63	1.48	1.35
29	P1	201	PEB	CHB-C4B	15.63	1.48	1.35
29	PK	201	PEB	CHB-C4B	15.63	1.48	1.35
31	IP	1001	CYC	CHA-C1A	15.63	1.48	1.35
31	nP	1001	CYC	CHA-C1A	15.63	1.48	1.35
31	kP	1001	CYC	CHA-C1A	15.63	1.48	1.35
29	R1	201	PEB	CHB-C4B	15.62	1.48	1.35
29	H8	203	PEB	CHB-C4B	15.62	1.48	1.35
29	RK	201	PEB	CHB-C4B	15.62	1.48	1.35
31	SP	1001	CYC	CHA-C1A	15.62	1.48	1.35
29	i1	201	PEB	CHB-C4B	15.62	1.48	1.35
29	AB	301	PEB	CHB-C4B	15.62	1.48	1.35
29	iK	201	PEB	CHB-C4B	15.62	1.48	1.35
31	jP	1001	CYC	CHA-C1A	15.61	1.48	1.35
29	hF	201	PEB	CHB-C4B	15.61	1.48	1.35
29	hI	201	PEB	CHB-C4B	15.61	1.48	1.35
29	L8	202	PEB	CHB-C4B	15.61	1.48	1.35
29	D1	1002	PEB	CHB-C4B	15.61	1.48	1.35
31	wP	1001	CYC	CHA-C1A	15.61	1.48	1.35
29	DK	1002	PEB	CHB-C4B	15.60	1.48	1.35
31	uP	1001	CYC	CHA-C1A	15.60	1.48	1.35
29	lB	201	PEB	CHB-C4B	15.59	1.48	1.35
29	lM	201	PEB	CHB-C4B	15.59	1.48	1.35
29	F5	202	PEB	CHB-C4B	15.59	1.48	1.35
29	F8	202	PEB	CHB-C4B	15.59	1.48	1.35
29	hB	201	PEB	CHB-C4B	15.59	1.48	1.35
29	hM	201	PEB	CHB-C4B	15.59	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B5	201	PEB	CHB-C4B	15.59	1.48	1.35
29	Y7	201	PEB	CHB-C4B	15.58	1.48	1.35
29	Y9	201	PEB	CHB-C4B	15.58	1.48	1.35
31	BP	1001	CYC	CHA-C1A	15.58	1.48	1.35
29	J1	1002	PEB	CHB-C4B	15.58	1.48	1.35
29	BB	301	PEB	CHB-C4B	15.58	1.48	1.35
29	JK	1002	PEB	CHB-C4B	15.58	1.48	1.35
29	BM	301	PEB	CHB-C4B	15.58	1.48	1.35
29	fF	201	PEB	CHB-C4B	15.58	1.48	1.35
29	fI	201	PEB	CHB-C4B	15.58	1.48	1.35
31	UP	1001	CYC	CHA-C1A	15.58	1.48	1.35
30	A7	303	PUB	CHB-C1C	15.58	1.48	1.35
30	A9	303	PUB	CHB-C1C	15.58	1.48	1.35
31	qP	1001	CYC	CHA-C1A	15.58	1.48	1.35
29	L1	1002	PEB	CHB-C4B	15.58	1.48	1.35
29	K8	202	PEB	CHB-C4B	15.58	1.48	1.35
29	LK	1002	PEB	CHB-C4B	15.58	1.48	1.35
29	F5	203	PEB	CHB-C4B	15.57	1.48	1.35
31	hP	1001	CYC	CHA-C1A	15.57	1.48	1.35
31	1P	1001	CYC	CHA-C1A	15.57	1.48	1.35
29	AG	201	PEB	CHB-C4B	15.57	1.48	1.35
29	AQ	201	PEB	CHB-C4B	15.57	1.48	1.35
29	F8	203	PEB	CHB-C4B	15.57	1.48	1.35
29	H8	202	PEB	CHB-C4B	15.57	1.48	1.35
29	MB	201	PEB	CHB-C4B	15.55	1.48	1.35
29	MM	201	PEB	CHB-C4B	15.55	1.48	1.35
29	lF	201	PEB	CHB-C4B	15.55	1.48	1.35
29	lI	201	PEB	CHB-C4B	15.55	1.48	1.35
30	A7	302	PUB	CHB-C1C	15.55	1.48	1.35
30	A9	302	PUB	CHB-C1C	15.55	1.48	1.35
29	UB	201	PEB	CHB-C4B	15.55	1.48	1.35
29	UM	201	PEB	CHB-C4B	15.55	1.48	1.35
29	K3	201	PEB	CHB-C4B	15.54	1.48	1.35
29	KO	201	PEB	CHB-C4B	15.54	1.48	1.35
29	OB	201	PEB	CHB-C4B	15.54	1.48	1.35
29	OM	201	PEB	CHB-C4B	15.54	1.48	1.35
29	NO	201	PEB	CHB-C4B	15.54	1.48	1.35
29	aB	201	PEB	CHB-C4B	15.54	1.48	1.35
29	aM	201	PEB	CHB-C4B	15.54	1.48	1.35
29	g7	201	PEB	CHB-C4B	15.54	1.48	1.35
29	g9	201	PEB	CHB-C4B	15.54	1.48	1.35
29	c7	201	PEB	CHB-C4B	15.53	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	c9	201	PEB	CHB-C4B	15.53	1.48	1.35
29	YB	202	PEB	CHB-C4B	15.53	1.48	1.35
29	CG	201	PEB	CHB-C4B	15.53	1.48	1.35
29	YM	202	PEB	CHB-C4B	15.53	1.48	1.35
29	CQ	201	PEB	CHB-C4B	15.53	1.48	1.35
29	P7	201	PEB	CHB-C4B	15.53	1.48	1.35
29	P9	201	PEB	CHB-C4B	15.53	1.48	1.35
29	WB	201	PEB	CHB-C4B	15.53	1.48	1.35
29	WM	201	PEB	CHB-C4B	15.53	1.48	1.35
29	k7	201	PEB	CHB-C4B	15.53	1.48	1.35
29	k9	201	PEB	CHB-C4B	15.53	1.48	1.35
29	SF	201	PEB	CHB-C4B	15.53	1.48	1.35
29	bF	201	PEB	CHB-C4B	15.53	1.48	1.35
29	SI	201	PEB	CHB-C4B	15.53	1.48	1.35
29	bI	201	PEB	CHB-C4B	15.53	1.48	1.35
29	WF	201	PEB	CHB-C4B	15.52	1.48	1.35
29	WI	201	PEB	CHB-C4B	15.52	1.48	1.35
29	KG	201	PEB	CHB-C4B	15.52	1.48	1.35
29	KQ	201	PEB	CHB-C4B	15.52	1.48	1.35
29	SB	201	PEB	CHB-C4B	15.52	1.48	1.35
29	SM	201	PEB	CHB-C4B	15.52	1.48	1.35
29	EG	201	PEB	CHB-C4B	15.52	1.48	1.35
29	EQ	201	PEB	CHB-C4B	15.52	1.48	1.35
29	KB	201	PEB	CHB-C4B	15.52	1.48	1.35
29	KM	201	PEB	CHB-C4B	15.52	1.48	1.35
29	H5	202	PEB	CHB-C4B	15.52	1.48	1.35
29	jB	201	PEB	CHB-C4B	15.51	1.48	1.35
29	jM	201	PEB	CHB-C4B	15.51	1.48	1.35
29	m7	201	PEB	CHB-C4B	15.51	1.48	1.35
29	m9	201	PEB	CHB-C4B	15.51	1.48	1.35
29	IG	201	PEB	CHB-C4B	15.51	1.48	1.35
29	kJ	202	PEB	CHB-C4B	15.51	1.48	1.35
29	NK	1002	PEB	CHB-C4B	15.51	1.48	1.35
29	kL	202	PEB	CHB-C4B	15.51	1.48	1.35
29	IQ	201	PEB	CHB-C4B	15.51	1.48	1.35
29	GG	201	PEB	CHB-C4B	15.50	1.48	1.35
29	GQ	201	PEB	CHB-C4B	15.50	1.48	1.35
29	E3	201	PEB	CHB-C4B	15.50	1.48	1.35
29	EO	201	PEB	CHB-C4B	15.50	1.48	1.35
29	I3	201	PEB	CHB-C4B	15.50	1.48	1.35
29	a7	201	PEB	CHB-C4B	15.50	1.48	1.35
29	a9	201	PEB	CHB-C4B	15.50	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	QB	203	PEB	CHB-C4B	15.50	1.48	1.35
29	QM	203	PEB	CHB-C4B	15.50	1.48	1.35
29	IO	201	PEB	CHB-C4B	15.50	1.48	1.35
29	CB	201	PEB	CHB-C4B	15.49	1.48	1.35
29	CM	201	PEB	CHB-C4B	15.49	1.48	1.35
29	UF	202	PEB	CHB-C4B	15.49	1.48	1.35
29	UI	202	PEB	CHB-C4B	15.49	1.48	1.35
30	xL	304	PUB	CHB-C1C	15.49	1.48	1.35
29	C3	201	PEB	CHB-C4B	15.49	1.48	1.35
29	T7	201	PEB	CHB-C4B	15.49	1.48	1.35
29	e7	201	PEB	CHB-C4B	15.49	1.48	1.35
29	L8	201	PEB	CHB-C4B	15.49	1.48	1.35
29	T9	201	PEB	CHB-C4B	15.49	1.48	1.35
29	e9	201	PEB	CHB-C4B	15.49	1.48	1.35
29	IB	201	PEB	CHB-C4B	15.49	1.48	1.35
29	IM	201	PEB	CHB-C4B	15.49	1.48	1.35
29	CO	201	PEB	CHB-C4B	15.49	1.48	1.35
29	IJ	202	PEB	CHB-C4B	15.49	1.48	1.35
29	IL	202	PEB	CHB-C4B	15.49	1.48	1.35
29	OF	201	PEB	CHB-C4B	15.49	1.48	1.35
29	OI	201	PEB	CHB-C4B	15.49	1.48	1.35
29	iJ	202	PEB	CHB-C4B	15.49	1.48	1.35
29	iL	202	PEB	CHB-C4B	15.49	1.48	1.35
29	GB	201	PEB	CHB-C4B	15.49	1.48	1.35
29	GM	201	PEB	CHB-C4B	15.49	1.48	1.35
29	GJ	202	PEB	CHB-C4B	15.48	1.48	1.35
29	GL	202	PEB	CHB-C4B	15.48	1.48	1.35
29	N3	201	PEB	CHB-C4B	15.48	1.48	1.35
29	fB	201	PEB	CHB-C4B	15.48	1.48	1.35
29	fM	201	PEB	CHB-C4B	15.48	1.48	1.35
29	aJ	202	PEB	CHB-C4B	15.48	1.48	1.35
29	aL	202	PEB	CHB-C4B	15.48	1.48	1.35
29	G3	201	PEB	CHB-C4B	15.47	1.48	1.35
29	QF	201	PEB	CHB-C4B	15.47	1.48	1.35
29	QI	201	PEB	CHB-C4B	15.47	1.48	1.35
29	GO	201	PEB	CHB-C4B	15.47	1.48	1.35
29	R7	201	PEB	CHB-C4B	15.47	1.48	1.35
29	R9	201	PEB	CHB-C4B	15.47	1.48	1.35
29	L5	201	PEB	CHB-C4B	15.47	1.48	1.35
29	i7	201	PEB	CHB-C4B	15.47	1.48	1.35
29	i9	201	PEB	CHB-C4B	15.47	1.48	1.35
29	AJ	202	PEB	CHB-C4B	15.47	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AL	202	PEB	CHB-C4B	15.47	1.48	1.35
29	V7	201	PEB	CHB-C4B	15.47	1.48	1.35
29	V9	201	PEB	CHB-C4B	15.47	1.48	1.35
29	EJ	202	PEB	CHB-C4B	15.47	1.48	1.35
29	EL	202	PEB	CHB-C4B	15.47	1.48	1.35
29	SJ	202	PEB	CHB-C4B	15.46	1.48	1.35
29	SL	202	PEB	CHB-C4B	15.46	1.48	1.35
29	N1	1002	PEB	CHB-C4B	15.46	1.48	1.35
29	jF	201	PEB	CHB-C4B	15.46	1.48	1.35
29	jI	201	PEB	CHB-C4B	15.46	1.48	1.35
29	A1	303	PEB	CHB-C4B	15.46	1.48	1.35
29	sJ	202	PEB	CHB-C4B	15.46	1.48	1.35
29	AK	303	PEB	CHB-C4B	15.46	1.48	1.35
29	sL	202	PEB	CHB-C4B	15.46	1.48	1.35
29	dF	202	PEB	CHB-C4B	15.46	1.48	1.35
29	dI	202	PEB	CHB-C4B	15.46	1.48	1.35
30	AF	303	PUB	CHB-C1C	15.46	1.48	1.35
30	AI	303	PUB	CHB-C1C	15.46	1.48	1.35
29	A3	201	PEB	CHB-C4B	15.46	1.48	1.35
29	AO	201	PEB	CHB-C4B	15.46	1.48	1.35
29	KJ	202	PEB	CHB-C4B	15.45	1.48	1.35
29	KL	202	PEB	CHB-C4B	15.45	1.48	1.35
29	M3	201	PEB	CHB-C4B	15.45	1.48	1.35
29	MO	201	PEB	CHB-C4B	15.45	1.48	1.35
29	CJ	202	PEB	CHB-C4B	15.44	1.48	1.35
29	CL	202	PEB	CHB-C4B	15.44	1.48	1.35
29	mJ	202	PEB	CHB-C4B	15.44	1.48	1.35
29	uJ	203	PEB	CHB-C4B	15.44	1.48	1.35
29	mL	202	PEB	CHB-C4B	15.44	1.48	1.35
29	uL	203	PEB	CHB-C4B	15.44	1.48	1.35
29	QJ	202	PEB	CHB-C4B	15.44	1.48	1.35
29	QL	202	PEB	CHB-C4B	15.44	1.48	1.35
29	oJ	202	PEB	CHB-C4B	15.43	1.48	1.35
29	oL	202	PEB	CHB-C4B	15.43	1.48	1.35
29	ZF	201	PEB	CHB-C4B	15.43	1.48	1.35
29	ZI	201	PEB	CHB-C4B	15.43	1.48	1.35
30	xJ	304	PUB	CHB-C1C	15.43	1.48	1.35
31	M9	1001	CYC	CHA-C1A	15.43	1.48	1.35
29	KC	201	PEB	CHB-C4B	15.42	1.48	1.35
29	KE	201	PEB	CHB-C4B	15.42	1.48	1.35
29	UJ	202	PEB	CHB-C4B	15.42	1.48	1.35
29	UL	202	PEB	CHB-C4B	15.42	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	wJ	304	PUB	CHB-C1C	15.41	1.48	1.35
29	cJ	202	PEB	CHB-C4B	15.41	1.48	1.35
29	cL	202	PEB	CHB-C4B	15.41	1.48	1.35
31	C7	1001	CYC	CHA-C1A	15.41	1.48	1.35
31	C9	1001	CYC	CHA-C1A	15.41	1.48	1.35
29	A1	301	PEB	CHB-C4B	15.41	1.48	1.35
29	OJ	202	PEB	CHB-C4B	15.41	1.48	1.35
29	WJ	203	PEB	CHB-C4B	15.41	1.48	1.35
29	YJ	202	PEB	CHB-C4B	15.41	1.48	1.35
29	AK	301	PEB	CHB-C4B	15.41	1.48	1.35
29	OL	202	PEB	CHB-C4B	15.41	1.48	1.35
29	WL	203	PEB	CHB-C4B	15.41	1.48	1.35
29	YL	202	PEB	CHB-C4B	15.41	1.48	1.35
31	G7	1001	CYC	CHA-C1A	15.40	1.48	1.35
31	M7	1001	CYC	CHA-C1A	15.40	1.48	1.35
29	MJ	202	PEB	CHB-C4B	15.39	1.48	1.35
29	ML	202	PEB	CHB-C4B	15.39	1.48	1.35
29	gJ	202	PEB	CHB-C4B	15.39	1.48	1.35
29	gL	202	PEB	CHB-C4B	15.39	1.48	1.35
29	LC	202	PEB	CHB-C4B	15.38	1.48	1.35
29	LE	202	PEB	CHB-C4B	15.38	1.48	1.35
29	qJ	202	PEB	CHB-C4B	15.37	1.48	1.35
29	qL	202	PEB	CHB-C4B	15.37	1.48	1.35
31	K9	1001	CYC	CHA-C1A	15.37	1.48	1.35
29	HC	202	PEB	CHB-C4B	15.36	1.48	1.35
29	HE	202	PEB	CHB-C4B	15.36	1.48	1.35
29	BC	202	PEB	CHB-C4B	15.36	1.48	1.35
29	BE	202	PEB	CHB-C4B	15.36	1.48	1.35
31	K7	1001	CYC	CHA-C1A	15.36	1.47	1.35
29	eJ	202	PEB	CHB-C4B	15.35	1.47	1.35
29	eL	202	PEB	CHB-C4B	15.35	1.47	1.35
31	NF	1001	CYC	CHA-C1A	15.35	1.47	1.35
31	NI	1001	CYC	CHA-C1A	15.35	1.47	1.35
29	FC	202	PEB	CHB-C4B	15.34	1.47	1.35
29	FE	202	PEB	CHB-C4B	15.34	1.47	1.35
31	HF	1001	CYC	CHA-C1A	15.34	1.47	1.35
31	HI	1001	CYC	CHA-C1A	15.34	1.47	1.35
31	I7	1001	CYC	CHA-C1A	15.34	1.47	1.35
31	I9	1001	CYC	CHA-C1A	15.34	1.47	1.35
31	E7	1001	CYC	CHA-C1A	15.33	1.47	1.35
31	E9	1001	CYC	CHA-C1A	15.33	1.47	1.35
31	G9	1001	CYC	CHA-C1A	15.32	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	EA	202	PEB	CHB-C4B	15.31	1.47	1.35
29	EN	202	PEB	CHB-C4B	15.31	1.47	1.35
30	wL	304	PUB	CHB-C1C	15.31	1.47	1.35
29	AC	203	PEB	CHB-C4B	15.30	1.47	1.35
29	AE	203	PEB	CHB-C4B	15.30	1.47	1.35
31	JF	1001	CYC	CHA-C1A	15.29	1.47	1.35
31	JI	1001	CYC	CHA-C1A	15.29	1.47	1.35
31	DF	1001	CYC	CHA-C1A	15.29	1.47	1.35
31	DI	1001	CYC	CHA-C1A	15.29	1.47	1.35
31	FF	1001	CYC	CHA-C1A	15.29	1.47	1.35
31	FI	1001	CYC	CHA-C1A	15.29	1.47	1.35
29	AF	301	PEB	CHB-C4B	15.28	1.47	1.35
29	AI	301	PEB	CHB-C4B	15.28	1.47	1.35
29	KA	202	PEB	CHB-C4B	15.26	1.47	1.35
29	KN	202	PEB	CHB-C4B	15.26	1.47	1.35
31	LF	1001	CYC	CHA-C1A	15.26	1.47	1.35
31	LI	1001	CYC	CHA-C1A	15.26	1.47	1.35
29	A7	301	PEB	CHB-C4B	15.26	1.47	1.35
29	A9	301	PEB	CHB-C4B	15.26	1.47	1.35
29	CA	202	PEB	CHB-C4B	15.26	1.47	1.35
29	CN	202	PEB	CHB-C4B	15.26	1.47	1.35
29	IA	202	PEB	CHB-C4B	15.25	1.47	1.35
29	IN	202	PEB	CHB-C4B	15.25	1.47	1.35
29	yJ	301	PEB	CHB-C4B	15.23	1.47	1.35
29	yL	301	PEB	CHB-C4B	15.23	1.47	1.35
29	d7	202	PEB	CHB-C4B	15.21	1.47	1.35
29	d9	202	PEB	CHB-C4B	15.21	1.47	1.35
29	GA	202	PEB	CHB-C4B	15.20	1.47	1.35
29	GN	202	PEB	CHB-C4B	15.20	1.47	1.35
29	S7	202	PEB	CHB-C4B	15.17	1.47	1.35
29	h7	202	PEB	CHB-C4B	15.17	1.47	1.35
29	S9	202	PEB	CHB-C4B	15.17	1.47	1.35
29	h9	202	PEB	CHB-C4B	15.17	1.47	1.35
29	AA	202	PEB	CHB-C4B	15.17	1.47	1.35
29	AN	202	PEB	CHB-C4B	15.17	1.47	1.35
31	K1	1001	CYC	CHA-C1A	15.17	1.47	1.35
31	KK	1001	CYC	CHA-C1A	15.17	1.47	1.35
29	KB	203	PEB	CHB-C4B	15.17	1.47	1.35
29	KM	203	PEB	CHB-C4B	15.17	1.47	1.35
29	J5	201	PEB	CHB-C4B	15.16	1.47	1.35
29	J8	201	PEB	CHB-C4B	15.16	1.47	1.35
29	U7	202	PEB	CHB-C4B	15.16	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	U9	202	PEB	CHB-C4B	15.16	1.47	1.35
29	l7	202	PEB	CHB-C4B	15.15	1.47	1.35
29	l9	202	PEB	CHB-C4B	15.15	1.47	1.35
29	Z7	202	PEB	CHB-C4B	15.14	1.47	1.35
29	Z9	202	PEB	CHB-C4B	15.14	1.47	1.35
29	W7	202	PEB	CHB-C4B	15.13	1.47	1.35
29	W9	202	PEB	CHB-C4B	15.13	1.47	1.35
29	f7	202	PEB	CHB-C4B	15.12	1.47	1.35
29	f9	202	PEB	CHB-C4B	15.12	1.47	1.35
29	Z7	201	PEB	CHB-C4B	15.12	1.47	1.35
29	Z9	201	PEB	CHB-C4B	15.12	1.47	1.35
29	W7	201	PEB	CHB-C4B	15.12	1.47	1.35
29	W9	201	PEB	CHB-C4B	15.12	1.47	1.35
30	wJ	305	PUB	CHB-C1C	15.11	1.47	1.35
29	J8	202	PEB	CHB-C4B	15.10	1.47	1.35
31	EK	1001	CYC	CHA-C1A	15.10	1.47	1.35
29	mB	202	PEB	CHB-C4B	15.10	1.47	1.35
29	mM	202	PEB	CHB-C4B	15.10	1.47	1.35
31	IK	1001	CYC	CHA-C1A	15.09	1.47	1.35
29	h7	201	PEB	CHB-C4B	15.09	1.47	1.35
29	h9	201	PEB	CHB-C4B	15.09	1.47	1.35
29	HB	202	PEB	CHB-C4B	15.09	1.47	1.35
29	HM	202	PEB	CHB-C4B	15.09	1.47	1.35
29	j7	202	PEB	CHB-C4B	15.09	1.47	1.35
29	j9	202	PEB	CHB-C4B	15.09	1.47	1.35
29	LG	202	PEB	CHB-C4B	15.09	1.47	1.35
29	LQ	201	PEB	CHB-C4B	15.09	1.47	1.35
31	M1	1001	CYC	CHA-C1A	15.09	1.47	1.35
31	CK	1001	CYC	CHA-C1A	15.09	1.47	1.35
31	MK	1001	CYC	CHA-C1A	15.09	1.47	1.35
29	U7	201	PEB	CHB-C4B	15.08	1.47	1.35
29	U9	201	PEB	CHB-C4B	15.08	1.47	1.35
29	RB	202	PEB	CHB-C4B	15.08	1.47	1.35
29	RM	202	PEB	CHB-C4B	15.08	1.47	1.35
29	b7	202	PEB	CHB-C4B	15.08	1.47	1.35
29	b9	202	PEB	CHB-C4B	15.08	1.47	1.35
29	f7	201	PEB	CHB-C4B	15.08	1.47	1.35
29	f9	201	PEB	CHB-C4B	15.08	1.47	1.35
31	C1	1001	CYC	CHA-C1A	15.08	1.47	1.35
29	b7	201	PEB	CHB-C4B	15.08	1.47	1.35
29	b9	201	PEB	CHB-C4B	15.08	1.47	1.35
31	D1	1003	CYC	CHA-C1A	15.08	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LA	201	PEB	CHB-C4B	15.07	1.47	1.35
29	LN	201	PEB	CHB-C4B	15.07	1.47	1.35
31	GK	1001	CYC	CHA-C1A	15.07	1.47	1.35
30	xL	305	PUB	CHB-C1C	15.07	1.47	1.35
31	I1	1001	CYC	CHA-C1A	15.06	1.47	1.35
29	O7	202	PEB	CHB-C4B	15.06	1.47	1.35
29	O9	202	PEB	CHB-C4B	15.06	1.47	1.35
29	VB	202	PEB	CHB-C4B	15.05	1.47	1.35
29	VM	202	PEB	CHB-C4B	15.05	1.47	1.35
29	ZB	202	PEB	CHB-C4B	15.05	1.47	1.35
29	cB	202	PEB	CHB-C4B	15.05	1.47	1.35
29	ZM	202	PEB	CHB-C4B	15.05	1.47	1.35
29	cM	202	PEB	CHB-C4B	15.05	1.47	1.35
29	FG	202	PEB	CHB-C4B	15.05	1.47	1.35
29	FQ	202	PEB	CHB-C4B	15.05	1.47	1.35
29	QB	202	PEB	CHB-C4B	15.04	1.47	1.35
29	TB	202	PEB	CHB-C4B	15.04	1.47	1.35
29	QM	202	PEB	CHB-C4B	15.04	1.47	1.35
29	TM	202	PEB	CHB-C4B	15.04	1.47	1.35
29	DB	202	PEB	CHB-C4B	15.04	1.47	1.35
29	DM	202	PEB	CHB-C4B	15.04	1.47	1.35
31	E1	1001	CYC	CHA-C1A	15.04	1.47	1.35
29	gB	202	PEB	CHB-C4B	15.04	1.47	1.35
29	gM	202	PEB	CHB-C4B	15.04	1.47	1.35
29	aB	203	PEB	CHB-C4B	15.04	1.47	1.35
29	aM	203	PEB	CHB-C4B	15.04	1.47	1.35
30	xJ	305	PUB	CHB-C1C	15.04	1.47	1.35
29	O7	201	PEB	CHB-C4B	15.03	1.47	1.35
29	O9	201	PEB	CHB-C4B	15.03	1.47	1.35
29	JB	202	PEB	CHB-C4B	15.03	1.47	1.35
29	JM	202	PEB	CHB-C4B	15.03	1.47	1.35
29	iB	202	PEB	CHB-C4B	15.03	1.47	1.35
29	iM	202	PEB	CHB-C4B	15.03	1.47	1.35
29	j7	201	PEB	CHB-C4B	15.03	1.47	1.35
29	j9	201	PEB	CHB-C4B	15.03	1.47	1.35
29	DA	201	PEB	CHB-C4B	15.03	1.47	1.35
29	DN	201	PEB	CHB-C4B	15.03	1.47	1.35
29	Q7	202	PEB	CHB-C4B	15.02	1.47	1.35
29	Q9	202	PEB	CHB-C4B	15.02	1.47	1.35
29	kB	202	PEB	CHB-C4B	15.02	1.47	1.35
29	kM	202	PEB	CHB-C4B	15.02	1.47	1.35
29	DG	202	PEB	CHB-C4B	15.02	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	DQ	202	PEB	CHB-C4B	15.02	1.47	1.35
29	S7	201	PEB	CHB-C4B	15.02	1.47	1.35
29	d7	201	PEB	CHB-C4B	15.02	1.47	1.35
29	S9	201	PEB	CHB-C4B	15.02	1.47	1.35
29	d9	201	PEB	CHB-C4B	15.02	1.47	1.35
29	HG	202	PEB	CHB-C4B	15.02	1.47	1.35
29	HQ	202	PEB	CHB-C4B	15.02	1.47	1.35
29	LB	202	PEB	CHB-C4B	15.01	1.47	1.35
29	LM	202	PEB	CHB-C4B	15.01	1.47	1.35
29	YB	201	PEB	CHB-C4B	15.01	1.47	1.35
29	YM	201	PEB	CHB-C4B	15.01	1.47	1.35
29	J5	202	PEB	CHB-C4B	15.01	1.47	1.35
30	MN	403	PUB	CHB-C1C	15.00	1.47	1.35
29	Q7	201	PEB	CHB-C4B	15.00	1.47	1.35
29	Q9	201	PEB	CHB-C4B	15.00	1.47	1.35
30	MA	403	PUB	CHB-C1C	15.00	1.47	1.35
29	HA	201	PEB	CHB-C4B	14.99	1.47	1.35
29	HN	201	PEB	CHB-C4B	14.99	1.47	1.35
29	JG	202	PEB	CHB-C4B	14.99	1.47	1.35
29	JQ	202	PEB	CHB-C4B	14.99	1.47	1.35
29	l7	201	PEB	CHB-C4B	14.98	1.47	1.35
29	l9	201	PEB	CHB-C4B	14.98	1.47	1.35
29	W2	201	PEB	CHB-C4B	14.98	1.47	1.35
29	FB	202	PEB	CHB-C4B	14.98	1.47	1.35
29	FM	202	PEB	CHB-C4B	14.98	1.47	1.35
29	JA	201	PEB	CHB-C4B	14.97	1.47	1.35
29	JN	201	PEB	CHB-C4B	14.97	1.47	1.35
29	O2	201	PEB	CHB-C4B	14.96	1.47	1.35
30	wL	305	PUB	CHB-C1C	14.96	1.47	1.35
29	M2	201	PEB	CHB-C4B	14.95	1.47	1.35
29	MR	201	PEB	CHB-C4B	14.95	1.47	1.35
29	ED	202	PEB	CHB-C4B	14.95	1.47	1.35
30	A1	305	PUB	CHB-C1C	14.94	1.47	1.35
30	AK	305	PUB	CHB-C1C	14.94	1.47	1.35
29	GD	203	PEB	CHB-C4B	14.94	1.47	1.35
29	BA	201	PEB	CHB-C4B	14.92	1.47	1.35
29	BN	201	PEB	CHB-C4B	14.92	1.47	1.35
29	FA	201	PEB	CHB-C4B	14.92	1.47	1.35
29	FN	201	PEB	CHB-C4B	14.92	1.47	1.35
29	BG	202	PEB	CHB-C4B	14.92	1.47	1.35
29	BQ	202	PEB	CHB-C4B	14.92	1.47	1.35
29	wL	301	PEB	CHB-C4B	14.90	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	J9	1002	PEB	CHB-C4B	14.90	1.47	1.35
29	WR	201	PEB	CHB-C4B	14.90	1.47	1.35
29	OR	201	PEB	CHB-C4B	14.90	1.47	1.35
29	MD	203	PEB	CHB-C4B	14.90	1.47	1.35
31	MF	1001	CYC	CHA-C1A	14.89	1.47	1.35
31	MI	1001	CYC	CHA-C1A	14.89	1.47	1.35
29	L9	1002	PEB	CHB-C4B	14.89	1.47	1.35
29	E4	203	PEB	CHB-C4B	14.88	1.47	1.35
29	CD	203	PEB	CHB-C4B	14.88	1.47	1.35
29	MD	201	PEB	CHB-C4B	14.88	1.47	1.35
29	xL	301	PEB	CHB-C4B	14.87	1.47	1.35
29	UR	201	PEB	CHB-C4B	14.86	1.47	1.35
29	F7	1002	PEB	CHB-C4B	14.86	1.47	1.35
29	MA	405	PEB	CHB-C4B	14.85	1.47	1.35
29	M4	201	PEB	CHB-C4B	14.84	1.47	1.35
29	MN	405	PEB	CHB-C4B	14.84	1.47	1.35
29	QR	201	PEB	CHB-C4B	14.84	1.47	1.35
29	dD	401	PEB	CHB-C4B	14.84	1.47	1.35
29	U1	203	PEB	CHB-C4B	14.84	1.47	1.35
29	UK	203	PEB	CHB-C4B	14.84	1.47	1.35
29	K4	201	PEB	CHB-C4B	14.84	1.47	1.35
31	GF	1001	CYC	CHA-C1A	14.84	1.47	1.35
31	GI	1001	CYC	CHA-C1A	14.84	1.47	1.35
29	Q2	201	PEB	CHB-C4B	14.84	1.47	1.35
29	GD	201	PEB	CHB-C4B	14.84	1.47	1.35
29	l1	202	PEB	CHB-C4B	14.84	1.47	1.35
29	lK	202	PEB	CHB-C4B	14.84	1.47	1.35
29	J7	1002	PEB	CHB-C4B	14.83	1.47	1.35
29	G4	203	PEB	CHB-C4B	14.82	1.47	1.35
29	C4	201	PEB	CHB-C4B	14.81	1.47	1.35
30	MG	402	PUB	CHB-C1C	14.81	1.47	1.35
31	KI	1001	CYC	CHA-C1A	14.81	1.47	1.35
29	wJ	301	PEB	CHB-C4B	14.81	1.47	1.35
29	f1	202	PEB	CHB-C4B	14.80	1.47	1.35
29	fK	202	PEB	CHB-C4B	14.80	1.47	1.35
29	G4	201	PEB	CHB-C4B	14.80	1.47	1.35
31	KF	1001	CYC	CHA-C1A	14.80	1.47	1.35
29	Z1	203	PEB	CHB-C4B	14.80	1.47	1.35
29	ZK	203	PEB	CHB-C4B	14.80	1.47	1.35
31	IF	1001	CYC	CHA-C1A	14.80	1.47	1.35
31	II	1001	CYC	CHA-C1A	14.80	1.47	1.35
29	ID	203	PEB	CHB-C4B	14.80	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L7	1002	PEB	CHB-C4B	14.79	1.47	1.35
29	C4	203	PEB	CHB-C4B	14.79	1.47	1.35
29	KD	203	PEB	CHB-C4B	14.79	1.47	1.35
29	xJ	301	PEB	CHB-C4B	14.79	1.47	1.35
31	EF	1001	CYC	CHA-C1A	14.79	1.47	1.35
31	EI	1001	CYC	CHA-C1A	14.79	1.47	1.35
29	K4	203	PEB	CHB-C4B	14.79	1.47	1.35
29	W1	202	PEB	CHB-C4B	14.79	1.47	1.35
29	E4	201	PEB	CHB-C4B	14.79	1.47	1.35
29	WK	202	PEB	CHB-C4B	14.79	1.47	1.35
29	R7	202	PEB	CHB-C4B	14.78	1.47	1.35
29	R9	202	PEB	CHB-C4B	14.78	1.47	1.35
29	Q1	202	PEB	CHB-C4B	14.78	1.47	1.35
29	h1	202	PEB	CHB-C4B	14.78	1.47	1.35
29	QK	202	PEB	CHB-C4B	14.78	1.47	1.35
29	hK	202	PEB	CHB-C4B	14.78	1.47	1.35
29	d1	202	PEB	CHB-C4B	14.78	1.47	1.35
29	dK	202	PEB	CHB-C4B	14.78	1.47	1.35
29	b1	202	PEB	CHB-C4B	14.78	1.47	1.35
29	bK	202	PEB	CHB-C4B	14.78	1.47	1.35
29	j1	202	PEB	CHB-C4B	14.77	1.47	1.35
29	I4	201	PEB	CHB-C4B	14.77	1.47	1.35
29	jK	202	PEB	CHB-C4B	14.77	1.47	1.35
29	F9	1002	PEB	CHB-C4B	14.77	1.47	1.35
29	V7	202	PEB	CHB-C4B	14.76	1.47	1.35
29	V9	202	PEB	CHB-C4B	14.76	1.47	1.35
29	JA	202	PEB	CHB-C4B	14.75	1.47	1.35
29	JN	202	PEB	CHB-C4B	14.75	1.47	1.35
29	T7	202	PEB	CHB-C4B	14.75	1.47	1.35
29	k7	202	PEB	CHB-C4B	14.75	1.47	1.35
29	T9	202	PEB	CHB-C4B	14.75	1.47	1.35
29	k9	202	PEB	CHB-C4B	14.75	1.47	1.35
31	CF	1001	CYC	CHA-C1A	14.75	1.47	1.35
31	CI	1001	CYC	CHA-C1A	14.75	1.47	1.35
29	DA	202	PEB	CHB-C4B	14.74	1.47	1.35
29	DN	202	PEB	CHB-C4B	14.74	1.47	1.35
29	P7	202	PEB	CHB-C4B	14.74	1.47	1.35
29	P9	202	PEB	CHB-C4B	14.74	1.47	1.35
29	S1	202	PEB	CHB-C4B	14.72	1.47	1.35
29	Y7	202	PEB	CHB-C4B	14.72	1.47	1.35
29	Y9	202	PEB	CHB-C4B	14.72	1.47	1.35
29	SK	202	PEB	CHB-C4B	14.72	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	NO	203	PEB	CHB-C4B	14.72	1.47	1.35
29	a7	202	PEB	CHB-C4B	14.71	1.47	1.35
29	a9	202	PEB	CHB-C4B	14.71	1.47	1.35
29	FA	202	PEB	CHB-C4B	14.71	1.47	1.35
29	FN	202	PEB	CHB-C4B	14.71	1.47	1.35
29	H7	1002	PEB	CHB-C4B	14.71	1.47	1.35
29	H9	1002	PEB	CHB-C4B	14.71	1.47	1.35
29	LA	202	PEB	CHB-C4B	14.71	1.47	1.35
29	LN	202	PEB	CHB-C4B	14.71	1.47	1.35
29	O1	202	PEB	CHB-C4B	14.71	1.47	1.35
29	OK	202	PEB	CHB-C4B	14.71	1.47	1.35
29	U2	201	PEB	CHB-C4B	14.70	1.47	1.35
29	N7	1002	PEB	CHB-C4B	14.70	1.47	1.35
29	N9	1002	PEB	CHB-C4B	14.70	1.47	1.35
29	HA	202	PEB	CHB-C4B	14.69	1.47	1.35
29	HN	202	PEB	CHB-C4B	14.69	1.47	1.35
29	D7	1002	PEB	CHB-C4B	14.68	1.47	1.35
29	D9	1002	PEB	CHB-C4B	14.68	1.47	1.35
29	ID	201	PEB	CHB-C4B	14.68	1.47	1.35
29	IJ	202	PEB	CHB-C4B	14.68	1.47	1.35
29	IL	202	PEB	CHB-C4B	14.68	1.47	1.35
29	KD	201	PEB	CHB-C4B	14.67	1.47	1.35
29	CD	201	PEB	CHB-C4B	14.67	1.47	1.35
29	dJ	202	PEB	CHB-C4B	14.67	1.47	1.35
29	dL	202	PEB	CHB-C4B	14.67	1.47	1.35
30	MQ	404	PUB	CHB-C1C	14.67	1.47	1.35
29	i7	202	PEB	CHB-C4B	14.66	1.47	1.35
29	i9	202	PEB	CHB-C4B	14.66	1.47	1.35
29	g7	202	PEB	CHB-C4B	14.66	1.47	1.35
29	g9	202	PEB	CHB-C4B	14.66	1.47	1.35
29	BA	202	PEB	CHB-C4B	14.66	1.47	1.35
29	BN	202	PEB	CHB-C4B	14.66	1.47	1.35
29	c7	202	PEB	CHB-C4B	14.65	1.47	1.35
29	m7	202	PEB	CHB-C4B	14.65	1.47	1.35
29	c9	202	PEB	CHB-C4B	14.65	1.47	1.35
29	m9	202	PEB	CHB-C4B	14.65	1.47	1.35
29	e7	202	PEB	CHB-C4B	14.64	1.47	1.35
29	e9	202	PEB	CHB-C4B	14.64	1.47	1.35
29	FJ	202	PEB	CHB-C4B	14.64	1.47	1.35
29	FL	202	PEB	CHB-C4B	14.64	1.47	1.35
29	M3	203	PEB	CHB-C4B	14.64	1.47	1.35
29	MO	203	PEB	CHB-C4B	14.64	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jJ	202	PEB	CHB-C4B	14.62	1.47	1.35
29	jL	202	PEB	CHB-C4B	14.62	1.47	1.35
29	N3	203	PEB	CHB-C4B	14.62	1.47	1.35
29	hJ	202	PEB	CHB-C4B	14.62	1.47	1.35
29	hL	202	PEB	CHB-C4B	14.62	1.47	1.35
29	fJ	202	PEB	CHB-C4B	14.61	1.47	1.35
29	sJ	203	PEB	CHB-C4B	14.61	1.47	1.35
29	fL	202	PEB	CHB-C4B	14.61	1.47	1.35
29	sL	203	PEB	CHB-C4B	14.61	1.47	1.35
29	bJ	202	PEB	CHB-C4B	14.61	1.47	1.35
29	bL	202	PEB	CHB-C4B	14.61	1.47	1.35
29	WJ	201	PEB	CHB-C4B	14.60	1.47	1.35
29	WL	201	PEB	CHB-C4B	14.60	1.47	1.35
29	jI	201	PEB	CHB-C4B	14.59	1.47	1.35
29	jK	201	PEB	CHB-C4B	14.59	1.47	1.35
29	PJ	202	PEB	CHB-C4B	14.58	1.47	1.35
29	PL	202	PEB	CHB-C4B	14.58	1.47	1.35
29	JJ	202	PEB	CHB-C4B	14.57	1.47	1.35
29	JL	202	PEB	CHB-C4B	14.57	1.47	1.35
29	NJ	202	PEB	CHB-C4B	14.57	1.47	1.35
29	NL	202	PEB	CHB-C4B	14.57	1.47	1.35
29	AJ	203	PEB	CHB-C4B	14.56	1.47	1.35
29	RJ	202	PEB	CHB-C4B	14.56	1.47	1.35
29	AL	203	PEB	CHB-C4B	14.56	1.47	1.35
29	RL	202	PEB	CHB-C4B	14.56	1.47	1.35
29	IJ	203	PEB	CHB-C4B	14.56	1.47	1.35
29	IL	203	PEB	CHB-C4B	14.56	1.47	1.35
29	U1	202	PEB	CHB-C4B	14.56	1.47	1.35
29	UK	202	PEB	CHB-C4B	14.56	1.47	1.35
29	T2	202	PEB	CHB-C4B	14.56	1.47	1.35
29	pJ	202	PEB	CHB-C4B	14.56	1.47	1.35
29	pL	202	PEB	CHB-C4B	14.56	1.47	1.35
29	TR	202	PEB	CHB-C4B	14.56	1.47	1.35
29	HJ	201	PEB	CHB-C4B	14.56	1.47	1.35
29	HL	201	PEB	CHB-C4B	14.56	1.47	1.35
29	nJ	202	PEB	CHB-C4B	14.55	1.47	1.35
29	uJ	201	PEB	CHB-C4B	14.55	1.47	1.35
29	nL	202	PEB	CHB-C4B	14.55	1.47	1.35
29	uL	201	PEB	CHB-C4B	14.55	1.47	1.35
29	rJ	202	PEB	CHB-C4B	14.54	1.47	1.35
29	rL	202	PEB	CHB-C4B	14.54	1.47	1.35
29	W1	201	PEB	CHB-C4B	14.54	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	WK	201	PEB	CHB-C4B	14.54	1.47	1.35
29	MQ	406	PEB	CHB-C4B	14.54	1.47	1.35
29	h1	201	PEB	CHB-C4B	14.53	1.47	1.35
29	hK	201	PEB	CHB-C4B	14.53	1.47	1.35
29	S1	201	PEB	CHB-C4B	14.52	1.47	1.35
29	gF	202	PEB	CHB-C4B	14.52	1.47	1.35
29	gI	202	PEB	CHB-C4B	14.52	1.47	1.35
29	SK	201	PEB	CHB-C4B	14.52	1.47	1.35
29	OF	203	PEB	CHB-C4B	14.52	1.47	1.35
29	OI	203	PEB	CHB-C4B	14.52	1.47	1.35
29	ZJ	202	PEB	CHB-C4B	14.52	1.47	1.35
29	ZL	202	PEB	CHB-C4B	14.52	1.47	1.35
29	f1	201	PEB	CHB-C4B	14.52	1.47	1.35
29	BJ	202	PEB	CHB-C4B	14.52	1.47	1.35
29	fK	201	PEB	CHB-C4B	14.52	1.47	1.35
29	BL	202	PEB	CHB-C4B	14.52	1.47	1.35
29	XR	202	PEB	CHB-C4B	14.51	1.47	1.35
29	TJ	202	PEB	CHB-C4B	14.50	1.47	1.35
29	TL	202	PEB	CHB-C4B	14.50	1.47	1.35
29	Q1	201	PEB	CHB-C4B	14.49	1.47	1.35
29	QK	201	PEB	CHB-C4B	14.49	1.47	1.35
29	b1	201	PEB	CHB-C4B	14.49	1.47	1.35
29	bK	201	PEB	CHB-C4B	14.49	1.47	1.35
29	VF	202	PEB	CHB-C4B	14.48	1.47	1.35
29	VI	202	PEB	CHB-C4B	14.48	1.47	1.35
29	MQ	403	PEB	CHB-C4B	14.48	1.47	1.35
29	O1	201	PEB	CHB-C4B	14.47	1.47	1.35
29	Z1	202	PEB	CHB-C4B	14.47	1.47	1.35
29	OK	201	PEB	CHB-C4B	14.47	1.47	1.35
29	ZK	202	PEB	CHB-C4B	14.47	1.47	1.35
29	P2	201	PEB	CHB-C4B	14.47	1.47	1.35
29	PR	201	PEB	CHB-C4B	14.47	1.47	1.35
29	MG	401	PEB	CHB-C4B	14.46	1.47	1.35
29	l1	201	PEB	CHB-C4B	14.46	1.47	1.35
29	lK	201	PEB	CHB-C4B	14.46	1.47	1.35
29	R2	202	PEB	CHB-C4B	14.45	1.47	1.35
29	RR	202	PEB	CHB-C4B	14.45	1.47	1.35
29	XJ	202	PEB	CHB-C4B	14.45	1.47	1.35
29	XL	202	PEB	CHB-C4B	14.45	1.47	1.35
29	MG	404	PEB	CHB-C4B	14.45	1.47	1.35
29	d1	201	PEB	CHB-C4B	14.45	1.47	1.35
29	dK	201	PEB	CHB-C4B	14.45	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kF	202	PEB	CHB-C4B	14.45	1.47	1.35
29	kI	202	PEB	CHB-C4B	14.45	1.47	1.35
30	MA	402	PUB	CHB-C1C	14.45	1.47	1.35
29	X2	201	PEB	CHB-C4B	14.45	1.47	1.35
29	NR	202	PEB	CHB-C4B	14.44	1.47	1.35
29	eF	202	PEB	CHB-C4B	14.43	1.47	1.35
29	eI	202	PEB	CHB-C4B	14.43	1.47	1.35
29	aF	202	PEB	CHB-C4B	14.43	1.47	1.35
29	aI	202	PEB	CHB-C4B	14.43	1.47	1.35
29	iF	202	PEB	CHB-C4B	14.42	1.47	1.35
29	iI	202	PEB	CHB-C4B	14.42	1.47	1.35
29	V2	202	PEB	CHB-C4B	14.42	1.47	1.35
29	mF	202	PEB	CHB-C4B	14.42	1.47	1.35
29	mI	202	PEB	CHB-C4B	14.42	1.47	1.35
30	MN	402	PUB	CHB-C1C	14.41	1.47	1.35
29	PF	202	PEB	CHB-C4B	14.40	1.47	1.35
29	PI	202	PEB	CHB-C4B	14.40	1.47	1.35
29	YF	202	PEB	CHB-C4B	14.40	1.47	1.35
29	YI	202	PEB	CHB-C4B	14.40	1.47	1.35
29	dF	201	PEB	CHB-C4B	14.38	1.47	1.35
29	dI	201	PEB	CHB-C4B	14.38	1.47	1.35
29	UF	201	PEB	CHB-C4B	14.37	1.47	1.35
29	UI	201	PEB	CHB-C4B	14.37	1.47	1.35
29	VR	202	PEB	CHB-C4B	14.36	1.47	1.35
29	N2	202	PEB	CHB-C4B	14.31	1.47	1.35
29	F4	201	PEB	CHB-C4B	14.27	1.47	1.35
29	HD	201	PEB	CHB-C4B	14.24	1.47	1.35
29	LD	201	PEB	CHB-C4B	14.22	1.47	1.35
29	L4	201	PEB	CHB-C4B	14.21	1.47	1.35
29	BD	201	PEB	CHB-C4B	14.21	1.47	1.35
29	H4	201	PEB	CHB-C4B	14.20	1.47	1.35
29	MD	202	PEB	CHB-C4B	14.20	1.47	1.35
29	FD	201	PEB	CHB-C4B	14.20	1.47	1.35
29	ID	202	PEB	CHB-C4B	14.19	1.47	1.35
29	ED	201	PEB	CHB-C4B	14.14	1.46	1.35
29	I4	202	PEB	CHB-C4B	14.14	1.46	1.35
29	B4	201	PEB	CHB-C4B	14.14	1.46	1.35
29	K4	202	PEB	CHB-C4B	14.13	1.46	1.35
29	M4	202	PEB	CHB-C4B	14.13	1.46	1.35
29	D4	201	PEB	CHB-C4B	14.11	1.46	1.35
29	MQ	407	PEB	CHB-C4B	14.11	1.46	1.35
29	E4	202	PEB	CHB-C4B	14.09	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C4	202	PEB	CHB-C4B	14.08	1.46	1.35
29	MN	404	PEB	CHB-C4B	14.08	1.46	1.35
29	CD	202	PEB	CHB-C4B	14.08	1.46	1.35
29	DD	201	PEB	CHB-C4B	14.07	1.46	1.35
29	MA	404	PEB	CHB-C4B	14.06	1.46	1.35
29	BD	202	PEB	CHB-C4B	14.06	1.46	1.35
29	G4	202	PEB	CHB-C4B	14.06	1.46	1.35
29	J4	201	PEB	CHB-C4B	14.06	1.46	1.35
29	JD	201	PEB	CHB-C4B	14.06	1.46	1.35
31	N7	1001	CYC	CHA-C1A	14.04	1.46	1.35
31	N9	1001	CYC	CHA-C1A	14.04	1.46	1.35
31	L9	1001	CYC	CHA-C1A	14.03	1.46	1.35
29	KD	202	PEB	CHB-C4B	14.03	1.46	1.35
31	F7	1001	CYC	CHA-C1A	14.02	1.46	1.35
31	F9	1001	CYC	CHA-C1A	14.01	1.46	1.35
29	LD	202	PEB	CHB-C4B	14.01	1.46	1.35
31	D7	1001	CYC	CHA-C1A	14.00	1.46	1.35
31	D9	1001	CYC	CHA-C1A	14.00	1.46	1.35
31	J9	1001	CYC	CHA-C1A	14.00	1.46	1.35
29	GD	202	PEB	CHB-C4B	13.98	1.46	1.35
31	J7	1001	CYC	CHA-C1A	13.98	1.46	1.35
29	L4	202	PEB	CHB-C4B	13.96	1.46	1.35
29	FD	202	PEB	CHB-C4B	13.96	1.46	1.35
31	L7	1001	CYC	CHA-C1A	13.96	1.46	1.35
29	B4	202	PEB	CHB-C4B	13.95	1.46	1.35
29	MG	405	PEB	CHB-C4B	13.95	1.46	1.35
31	H7	1001	CYC	CHA-C1A	13.94	1.46	1.35
31	H9	1001	CYC	CHA-C1A	13.94	1.46	1.35
29	F4	202	PEB	CHB-C4B	13.94	1.46	1.35
29	DD	202	PEB	CHB-C4B	13.93	1.46	1.35
29	P1	202	PEB	CHB-C4B	13.91	1.46	1.35
29	PK	202	PEB	CHB-C4B	13.91	1.46	1.35
29	g1	202	PEB	CHB-C4B	13.91	1.46	1.35
29	gK	202	PEB	CHB-C4B	13.91	1.46	1.35
29	JD	202	PEB	CHB-C4B	13.90	1.46	1.35
29	V1	202	PEB	CHB-C4B	13.89	1.46	1.35
29	j1	203	PEB	CHB-C4B	13.89	1.46	1.35
29	VK	202	PEB	CHB-C4B	13.89	1.46	1.35
29	jK	203	PEB	CHB-C4B	13.89	1.46	1.35
29	i1	202	PEB	CHB-C4B	13.86	1.46	1.35
29	iK	202	PEB	CHB-C4B	13.86	1.46	1.35
29	J4	202	PEB	CHB-C4B	13.86	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	c1	202	PEB	CHB-C4B	13.85	1.46	1.35
29	cK	202	PEB	CHB-C4B	13.85	1.46	1.35
29	KA	201	PEB	CHB-C4B	13.84	1.46	1.35
29	KN	201	PEB	CHB-C4B	13.84	1.46	1.35
29	e1	202	PEB	CHB-C4B	13.84	1.46	1.35
29	eK	202	PEB	CHB-C4B	13.84	1.46	1.35
29	IA	201	PEB	CHB-C4B	13.83	1.46	1.35
29	IN	201	PEB	CHB-C4B	13.83	1.46	1.35
29	HD	202	PEB	CHB-C4B	13.83	1.46	1.35
29	GA	201	PEB	CHB-C4B	13.82	1.46	1.35
29	GN	201	PEB	CHB-C4B	13.82	1.46	1.35
29	U1	201	PEB	CHB-C4B	13.82	1.46	1.35
29	UK	201	PEB	CHB-C4B	13.82	1.46	1.35
29	D4	202	PEB	CHB-C4B	13.79	1.46	1.35
29	MN	401	PEB	CHB-C4B	13.79	1.46	1.35
29	a1	202	PEB	CHB-C4B	13.79	1.46	1.35
29	aK	202	PEB	CHB-C4B	13.79	1.46	1.35
29	R1	202	PEB	CHB-C4B	13.78	1.46	1.35
29	RK	202	PEB	CHB-C4B	13.78	1.46	1.35
29	Z1	201	PEB	CHB-C4B	13.78	1.46	1.35
29	ZK	201	PEB	CHB-C4B	13.78	1.46	1.35
29	CA	201	PEB	CHB-C4B	13.77	1.46	1.35
29	EA	201	PEB	CHB-C4B	13.77	1.46	1.35
29	CN	201	PEB	CHB-C4B	13.77	1.46	1.35
29	EN	201	PEB	CHB-C4B	13.77	1.46	1.35
29	AA	201	PEB	CHB-C4B	13.77	1.46	1.35
29	AN	201	PEB	CHB-C4B	13.77	1.46	1.35
29	H4	202	PEB	CHB-C4B	13.75	1.46	1.35
29	k1	202	PEB	CHB-C4B	13.74	1.46	1.35
29	kK	202	PEB	CHB-C4B	13.74	1.46	1.35
29	MA	401	PEB	CHB-C4B	13.73	1.46	1.35
30	MN	402	PUB	C3A-C2A	13.52	1.49	1.34
30	MA	402	PUB	C3A-C2A	13.44	1.49	1.34
30	AB	304	PUB	CHB-C1C	13.33	1.46	1.35
30	AM	304	PUB	CHB-C1C	13.32	1.46	1.35
30	MQ	404	PUB	C3A-C2A	13.20	1.49	1.34
30	MG	402	PUB	C3A-C2A	13.06	1.49	1.34
29	uJ	202	PEB	CHB-C4B	12.84	1.45	1.35
29	uL	202	PEB	CHB-C4B	12.84	1.45	1.35
29	qJ	201	PEB	CHB-C4B	12.81	1.45	1.35
29	qL	201	PEB	CHB-C4B	12.81	1.45	1.35
29	IJ	201	PEB	CHB-C4B	12.81	1.45	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	IL	201	PEB	CHB-C4B	12.81	1.45	1.35
29	KJ	201	PEB	CHB-C4B	12.79	1.45	1.35
29	KL	201	PEB	CHB-C4B	12.79	1.45	1.35
29	MJ	201	PEB	CHB-C4B	12.79	1.45	1.35
29	ML	201	PEB	CHB-C4B	12.79	1.45	1.35
29	gJ	201	PEB	CHB-C4B	12.78	1.45	1.35
29	gL	201	PEB	CHB-C4B	12.78	1.45	1.35
29	UJ	201	PEB	CHB-C4B	12.77	1.45	1.35
29	UL	201	PEB	CHB-C4B	12.77	1.45	1.35
29	OJ	201	PEB	CHB-C4B	12.77	1.45	1.35
29	OL	201	PEB	CHB-C4B	12.77	1.45	1.35
29	WJ	202	PEB	CHB-C4B	12.75	1.45	1.35
29	WL	202	PEB	CHB-C4B	12.75	1.45	1.35
29	mJ	201	PEB	CHB-C4B	12.75	1.45	1.35
29	mL	201	PEB	CHB-C4B	12.75	1.45	1.35
29	EJ	201	PEB	CHB-C4B	12.75	1.45	1.35
29	kJ	201	PEB	CHB-C4B	12.75	1.45	1.35
29	EL	201	PEB	CHB-C4B	12.75	1.45	1.35
29	kL	201	PEB	CHB-C4B	12.75	1.45	1.35
29	sJ	201	PEB	CHB-C4B	12.74	1.45	1.35
29	sL	201	PEB	CHB-C4B	12.74	1.45	1.35
29	CJ	201	PEB	CHB-C4B	12.74	1.45	1.35
29	CL	201	PEB	CHB-C4B	12.74	1.45	1.35
29	aJ	201	PEB	CHB-C4B	12.73	1.45	1.35
29	aL	201	PEB	CHB-C4B	12.73	1.45	1.35
29	QJ	201	PEB	CHB-C4B	12.73	1.45	1.35
29	QL	201	PEB	CHB-C4B	12.73	1.45	1.35
29	SJ	201	PEB	CHB-C4B	12.72	1.45	1.35
29	SL	201	PEB	CHB-C4B	12.72	1.45	1.35
29	cJ	201	PEB	CHB-C4B	12.72	1.45	1.35
29	cL	201	PEB	CHB-C4B	12.72	1.45	1.35
29	iJ	201	PEB	CHB-C4B	12.72	1.45	1.35
29	iL	201	PEB	CHB-C4B	12.72	1.45	1.35
29	YJ	201	PEB	CHB-C4B	12.71	1.45	1.35
29	YL	201	PEB	CHB-C4B	12.71	1.45	1.35
29	oJ	201	PEB	CHB-C4B	12.70	1.45	1.35
29	oL	201	PEB	CHB-C4B	12.70	1.45	1.35
29	GJ	201	PEB	CHB-C4B	12.69	1.45	1.35
29	GL	201	PEB	CHB-C4B	12.69	1.45	1.35
29	eJ	201	PEB	CHB-C4B	12.68	1.45	1.35
29	eL	201	PEB	CHB-C4B	12.68	1.45	1.35
29	AJ	201	PEB	CHB-C4B	12.65	1.45	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AL	201	PEB	CHB-C4B	12.65	1.45	1.35
30	A1	305	PUB	C3A-C2A	12.38	1.48	1.34
30	AK	305	PUB	C3A-C2A	12.38	1.48	1.34
30	QB	201	PUB	C3A-C2A	12.14	1.48	1.34
30	QM	201	PUB	C3A-C2A	12.14	1.48	1.34
30	MQ	405	PUB	C3A-C2A	11.97	1.48	1.34
30	MG	403	PUB	C3A-C2A	11.91	1.47	1.34
30	yL	303	PUB	C3A-C2A	11.65	1.47	1.34
30	yJ	303	PUB	C3A-C2A	11.64	1.47	1.34
30	xL	304	PUB	C3A-C2A	11.60	1.47	1.34
30	xJ	304	PUB	C3A-C2A	11.58	1.47	1.34
30	wJ	304	PUB	C3A-C2A	11.52	1.47	1.34
30	BB	302	PUB	C3A-C2A	11.50	1.47	1.34
30	wL	304	PUB	C3A-C2A	11.50	1.47	1.34
30	BM	302	PUB	C3A-C2A	11.50	1.47	1.34
30	MA	403	PUB	C3A-C2A	11.38	1.47	1.34
30	MN	403	PUB	C3A-C2A	11.36	1.47	1.34
30	AF	302	PUB	C3A-C2A	11.33	1.47	1.34
30	AI	302	PUB	C3A-C2A	11.33	1.47	1.34
30	AM	304	PUB	C3A-C2A	11.32	1.47	1.34
30	AB	304	PUB	C3A-C2A	11.29	1.47	1.34
30	A7	303	PUB	C3A-C2A	11.28	1.47	1.34
30	A9	303	PUB	C3A-C2A	11.28	1.47	1.34
30	A1	304	PUB	C3A-C2A	11.21	1.47	1.34
30	AK	304	PUB	C3A-C2A	11.21	1.47	1.34
30	xL	305	PUB	C3A-C2A	11.16	1.47	1.34
30	A7	302	PUB	C3A-C2A	11.15	1.47	1.34
30	A9	302	PUB	C3A-C2A	11.15	1.47	1.34
30	wL	305	PUB	C3A-C2A	11.14	1.47	1.34
30	yJ	302	PUB	C3A-C2A	11.13	1.47	1.34
30	yL	302	PUB	C3A-C2A	11.13	1.47	1.34
30	AM	305	PUB	C3A-C2A	11.11	1.47	1.34
30	xJ	305	PUB	C3A-C2A	11.10	1.47	1.34
30	AB	305	PUB	C3A-C2A	11.09	1.47	1.34
30	wJ	305	PUB	C3A-C2A	11.08	1.46	1.34
30	AF	303	PUB	C3A-C2A	10.88	1.46	1.34
30	AI	303	PUB	C3A-C2A	10.88	1.46	1.34
29	HQ	203	PEB	C2D-C3D	10.30	1.47	1.34
29	JG	203	PEB	C2D-C3D	10.26	1.47	1.34
29	FQ	203	PEB	C2D-C3D	10.24	1.47	1.34
29	BQ	203	PEB	C2D-C3D	10.23	1.47	1.34
29	HG	203	PEB	C2D-C3D	10.23	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BG	203	PEB	C2D-C3D	10.22	1.47	1.34
29	DG	203	PEB	C2D-C3D	10.21	1.47	1.34
29	JQ	203	PEB	C2D-C3D	10.18	1.47	1.34
29	LG	203	PEB	C2D-C3D	10.17	1.47	1.34
29	LQ	202	PEB	C2D-C3D	10.17	1.47	1.34
29	FG	203	PEB	C2D-C3D	10.16	1.47	1.34
29	MG	404	PEB	C2D-C3D	10.13	1.47	1.34
29	KD	203	PEB	C2D-C3D	10.13	1.47	1.34
29	DQ	203	PEB	C2D-C3D	10.13	1.47	1.34
29	MQ	406	PEB	C2D-C3D	10.08	1.47	1.34
29	DC	202	PEB	C2D-C3D	10.06	1.47	1.34
29	DE	202	PEB	C2D-C3D	10.06	1.47	1.34
29	K4	203	PEB	C2D-C3D	10.05	1.47	1.34
29	LC	203	PEB	C2D-C3D	10.04	1.47	1.34
29	LE	203	PEB	C2D-C3D	10.04	1.47	1.34
29	HC	203	PEB	C2D-C3D	10.03	1.47	1.34
29	HE	203	PEB	C2D-C3D	10.03	1.47	1.34
29	FC	203	PEB	C2D-C3D	10.03	1.47	1.34
29	FE	203	PEB	C2D-C3D	10.03	1.47	1.34
29	JC	202	PEB	C2D-C3D	10.02	1.47	1.34
29	JE	202	PEB	C2D-C3D	10.02	1.47	1.34
29	ED	202	PEB	C2D-C3D	10.02	1.47	1.34
29	MD	203	PEB	C2D-C3D	10.02	1.47	1.34
29	ID	203	PEB	C2D-C3D	10.01	1.47	1.34
29	BC	203	PEB	C2D-C3D	10.01	1.47	1.34
29	BE	203	PEB	C2D-C3D	10.01	1.47	1.34
29	G4	203	PEB	C2D-C3D	9.97	1.47	1.34
29	E4	203	PEB	C2D-C3D	9.95	1.47	1.34
29	GD	203	PEB	C2D-C3D	9.94	1.47	1.34
29	CD	203	PEB	C2D-C3D	9.93	1.47	1.34
29	C4	203	PEB	C2D-C3D	9.92	1.47	1.34
29	Y7	203	PEB	C2D-C3D	9.91	1.47	1.34
29	Y9	203	PEB	C2D-C3D	9.91	1.47	1.34
29	m7	203	PEB	C2D-C3D	9.91	1.47	1.34
29	m9	203	PEB	C2D-C3D	9.91	1.47	1.34
29	i7	203	PEB	C2D-C3D	9.89	1.47	1.34
29	i9	203	PEB	C2D-C3D	9.89	1.47	1.34
29	V7	203	PEB	C2D-C3D	9.86	1.47	1.34
29	V9	203	PEB	C2D-C3D	9.86	1.47	1.34
29	A3	202	PEB	C2D-C3D	9.86	1.47	1.34
29	AO	202	PEB	C2D-C3D	9.86	1.47	1.34
29	c7	203	PEB	C2D-C3D	9.86	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	c9	203	PEB	C2D-C3D	9.86	1.47	1.34
29	e7	203	PEB	C2D-C3D	9.86	1.47	1.34
29	e9	203	PEB	C2D-C3D	9.86	1.47	1.34
29	k7	203	PEB	C2D-C3D	9.86	1.47	1.34
29	k9	203	PEB	C2D-C3D	9.86	1.47	1.34
29	R7	203	PEB	C2D-C3D	9.86	1.47	1.34
29	R9	203	PEB	C2D-C3D	9.86	1.47	1.34
29	I4	203	PEB	C2D-C3D	9.85	1.47	1.34
29	a7	203	PEB	C2D-C3D	9.84	1.47	1.34
29	a9	203	PEB	C2D-C3D	9.84	1.47	1.34
29	g7	203	PEB	C2D-C3D	9.84	1.47	1.34
29	g9	203	PEB	C2D-C3D	9.84	1.47	1.34
29	C3	202	PEB	C2D-C3D	9.83	1.47	1.34
29	CO	202	PEB	C2D-C3D	9.83	1.47	1.34
29	T7	203	PEB	C2D-C3D	9.81	1.47	1.34
29	T9	203	PEB	C2D-C3D	9.81	1.47	1.34
29	P7	203	PEB	C2D-C3D	9.80	1.47	1.34
29	P9	203	PEB	C2D-C3D	9.80	1.47	1.34
29	I3	202	PEB	C2D-C3D	9.80	1.47	1.34
29	IO	202	PEB	C2D-C3D	9.80	1.47	1.34
29	KC	202	PEB	C2D-C3D	9.80	1.47	1.34
29	KE	202	PEB	C2D-C3D	9.80	1.47	1.34
29	BC	201	PEB	C2D-C3D	9.80	1.47	1.34
29	BE	201	PEB	C2D-C3D	9.80	1.47	1.34
29	E3	202	PEB	C2D-C3D	9.79	1.47	1.34
29	EO	202	PEB	C2D-C3D	9.79	1.47	1.34
29	G3	202	PEB	C2D-C3D	9.79	1.47	1.34
29	GO	202	PEB	C2D-C3D	9.79	1.47	1.34
29	JC	201	PEB	C2D-C3D	9.77	1.47	1.34
29	JE	201	PEB	C2D-C3D	9.77	1.47	1.34
29	HC	201	PEB	C2D-C3D	9.76	1.47	1.34
29	HE	201	PEB	C2D-C3D	9.76	1.47	1.34
29	BB	301	PEB	C2D-C3D	9.76	1.47	1.34
29	BM	301	PEB	C2D-C3D	9.76	1.47	1.34
29	NB	202	PEB	C2D-C3D	9.76	1.47	1.34
29	NM	202	PEB	C2D-C3D	9.76	1.47	1.34
29	kB	203	PEB	C2D-C3D	9.76	1.47	1.34
29	kM	203	PEB	C2D-C3D	9.76	1.47	1.34
29	LB	203	PEB	C2D-C3D	9.76	1.47	1.34
29	LM	203	PEB	C2D-C3D	9.76	1.47	1.34
29	H3	202	PEB	C2D-C3D	9.75	1.47	1.34
29	J3	202	PEB	C2D-C3D	9.75	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HO	202	PEB	C2D-C3D	9.75	1.47	1.34
29	JO	202	PEB	C2D-C3D	9.75	1.47	1.34
29	XB	202	PEB	C2D-C3D	9.75	1.47	1.34
29	XM	202	PEB	C2D-C3D	9.75	1.47	1.34
29	PB	202	PEB	C2D-C3D	9.75	1.47	1.34
29	PM	202	PEB	C2D-C3D	9.75	1.47	1.34
29	mB	203	PEB	C2D-C3D	9.75	1.47	1.34
29	mM	203	PEB	C2D-C3D	9.75	1.47	1.34
29	I3	203	PEB	C2D-C3D	9.74	1.47	1.34
29	DC	201	PEB	C2D-C3D	9.74	1.47	1.34
29	GC	201	PEB	C2D-C3D	9.74	1.47	1.34
29	DE	201	PEB	C2D-C3D	9.74	1.47	1.34
29	GE	201	PEB	C2D-C3D	9.74	1.47	1.34
29	IO	203	PEB	C2D-C3D	9.74	1.47	1.34
29	c1	203	PEB	C2D-C3D	9.74	1.47	1.34
29	cK	203	PEB	C2D-C3D	9.74	1.47	1.34
29	K3	202	PEB	C2D-C3D	9.74	1.47	1.34
29	KO	202	PEB	C2D-C3D	9.74	1.47	1.34
29	MA	401	PEB	C2D-C3D	9.74	1.47	1.34
29	FC	201	PEB	C2D-C3D	9.73	1.47	1.34
29	FE	201	PEB	C2D-C3D	9.73	1.47	1.34
29	TB	203	PEB	C2D-C3D	9.72	1.47	1.34
29	TM	203	PEB	C2D-C3D	9.72	1.47	1.34
29	JB	203	PEB	C2D-C3D	9.72	1.47	1.34
29	JM	203	PEB	C2D-C3D	9.72	1.47	1.34
29	ZB	203	PEB	C2D-C3D	9.72	1.47	1.34
29	CC	201	PEB	C2D-C3D	9.72	1.47	1.34
29	CE	201	PEB	C2D-C3D	9.72	1.47	1.34
29	ZM	203	PEB	C2D-C3D	9.72	1.47	1.34
29	gB	203	PEB	C2D-C3D	9.72	1.47	1.34
29	gM	203	PEB	C2D-C3D	9.72	1.47	1.34
29	MR	202	PEB	C2D-C3D	9.72	1.47	1.34
29	DB	203	PEB	C2D-C3D	9.72	1.47	1.34
29	DM	203	PEB	C2D-C3D	9.72	1.47	1.34
29	cB	203	PEB	C2D-C3D	9.71	1.47	1.34
29	cM	203	PEB	C2D-C3D	9.71	1.47	1.34
29	IC	201	PEB	C2D-C3D	9.71	1.47	1.34
29	IE	201	PEB	C2D-C3D	9.71	1.47	1.34
29	Y1	202	PEB	C2D-C3D	9.71	1.47	1.34
29	YK	202	PEB	C2D-C3D	9.71	1.47	1.34
29	FB	203	PEB	C2D-C3D	9.71	1.47	1.34
29	FM	203	PEB	C2D-C3D	9.71	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	VB	203	PEB	C2D-C3D	9.70	1.47	1.34
29	VM	203	PEB	C2D-C3D	9.70	1.47	1.34
29	MN	401	PEB	C2D-C3D	9.70	1.47	1.34
29	LC	201	PEB	C2D-C3D	9.70	1.47	1.34
29	LE	201	PEB	C2D-C3D	9.70	1.47	1.34
29	SR	201	PEB	C2D-C3D	9.70	1.47	1.34
29	k1	203	PEB	C2D-C3D	9.70	1.47	1.34
29	kK	203	PEB	C2D-C3D	9.70	1.47	1.34
29	H3	203	PEB	C2D-C3D	9.70	1.47	1.34
29	HO	203	PEB	C2D-C3D	9.70	1.47	1.34
29	B3	202	PEB	C2D-C3D	9.69	1.47	1.34
29	BO	202	PEB	C2D-C3D	9.69	1.47	1.34
29	L3	202	PEB	C2D-C3D	9.69	1.47	1.34
29	RB	203	PEB	C2D-C3D	9.69	1.47	1.34
29	RM	203	PEB	C2D-C3D	9.69	1.47	1.34
29	LO	202	PEB	C2D-C3D	9.69	1.47	1.34
29	P1	203	PEB	C2D-C3D	9.69	1.47	1.34
29	PK	203	PEB	C2D-C3D	9.69	1.47	1.34
29	R1	203	PEB	C2D-C3D	9.69	1.47	1.34
29	LA	203	PEB	C2D-C3D	9.69	1.47	1.34
29	RK	203	PEB	C2D-C3D	9.69	1.47	1.34
29	LN	203	PEB	C2D-C3D	9.69	1.47	1.34
29	J3	203	PEB	C2D-C3D	9.69	1.47	1.34
29	JO	203	PEB	C2D-C3D	9.69	1.47	1.34
29	F3	202	PEB	C2D-C3D	9.69	1.47	1.34
29	FO	202	PEB	C2D-C3D	9.69	1.47	1.34
29	e1	203	PEB	C2D-C3D	9.68	1.47	1.34
29	eK	203	PEB	C2D-C3D	9.68	1.47	1.34
29	OR	202	PEB	C2D-C3D	9.68	1.47	1.34
29	HB	203	PEB	C2D-C3D	9.68	1.47	1.34
29	EC	201	PEB	C2D-C3D	9.68	1.47	1.34
29	EE	201	PEB	C2D-C3D	9.68	1.47	1.34
29	HM	203	PEB	C2D-C3D	9.68	1.47	1.34
29	M4	203	PEB	C2D-C3D	9.68	1.47	1.34
29	LA	202	PEB	C2D-C3D	9.67	1.47	1.34
29	LN	202	PEB	C2D-C3D	9.67	1.47	1.34
29	C5	203	PEB	C2D-C3D	9.67	1.47	1.34
29	C8	203	PEB	C2D-C3D	9.67	1.47	1.34
29	JA	202	PEB	C2D-C3D	9.67	1.47	1.34
29	JN	202	PEB	C2D-C3D	9.67	1.47	1.34
29	eB	202	PEB	C2D-C3D	9.67	1.47	1.34
29	eM	202	PEB	C2D-C3D	9.67	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	iB	203	PEB	C2D-C3D	9.67	1.47	1.34
29	iM	203	PEB	C2D-C3D	9.67	1.47	1.34
29	HA	202	PEB	C2D-C3D	9.67	1.47	1.34
29	HN	202	PEB	C2D-C3D	9.67	1.47	1.34
29	S2	201	PEB	C2D-C3D	9.67	1.47	1.34
29	AC	201	PEB	C2D-C3D	9.66	1.47	1.34
29	AE	201	PEB	C2D-C3D	9.66	1.47	1.34
29	DA	202	PEB	C2D-C3D	9.66	1.47	1.34
29	DN	202	PEB	C2D-C3D	9.66	1.47	1.34
29	FA	203	PEB	C2D-C3D	9.66	1.47	1.34
29	FN	203	PEB	C2D-C3D	9.66	1.47	1.34
29	T1	202	PEB	C2D-C3D	9.66	1.47	1.34
29	TK	202	PEB	C2D-C3D	9.66	1.47	1.34
29	V1	203	PEB	C2D-C3D	9.65	1.46	1.34
29	VK	203	PEB	C2D-C3D	9.65	1.46	1.34
29	FA	202	PEB	C2D-C3D	9.65	1.46	1.34
29	FN	202	PEB	C2D-C3D	9.65	1.46	1.34
29	HA	203	PEB	C2D-C3D	9.64	1.46	1.34
29	HN	203	PEB	C2D-C3D	9.64	1.46	1.34
29	m1	202	PEB	C2D-C3D	9.64	1.46	1.34
29	AA	202	PEB	C2D-C3D	9.64	1.46	1.34
29	BA	202	PEB	C2D-C3D	9.64	1.46	1.34
29	mK	202	PEB	C2D-C3D	9.64	1.46	1.34
29	AN	202	PEB	C2D-C3D	9.64	1.46	1.34
29	BN	202	PEB	C2D-C3D	9.64	1.46	1.34
29	a1	203	PEB	C2D-C3D	9.64	1.46	1.34
29	aK	203	PEB	C2D-C3D	9.64	1.46	1.34
29	DA	203	PEB	C2D-C3D	9.63	1.46	1.34
29	DN	203	PEB	C2D-C3D	9.63	1.46	1.34
29	g1	203	PEB	C2D-C3D	9.63	1.46	1.34
29	gK	203	PEB	C2D-C3D	9.63	1.46	1.34
29	F3	203	PEB	C2D-C3D	9.63	1.46	1.34
29	FO	203	PEB	C2D-C3D	9.63	1.46	1.34
29	JA	203	PEB	C2D-C3D	9.63	1.46	1.34
29	JN	203	PEB	C2D-C3D	9.63	1.46	1.34
29	DO	202	PEB	C2D-C3D	9.62	1.46	1.34
29	GA	202	PEB	C2D-C3D	9.62	1.46	1.34
29	GN	202	PEB	C2D-C3D	9.62	1.46	1.34
29	D3	203	PEB	C2D-C3D	9.62	1.46	1.34
29	DO	203	PEB	C2D-C3D	9.62	1.46	1.34
29	i1	203	PEB	C2D-C3D	9.62	1.46	1.34
29	iK	203	PEB	C2D-C3D	9.62	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I5	203	PEB	C2D-C3D	9.61	1.46	1.34
29	I8	203	PEB	C2D-C3D	9.61	1.46	1.34
29	B3	203	PEB	C2D-C3D	9.61	1.46	1.34
29	TF	201	PEB	C2D-C3D	9.61	1.46	1.34
29	BO	203	PEB	C2D-C3D	9.61	1.46	1.34
29	K8	203	PEB	C2D-C3D	9.61	1.46	1.34
29	K5	203	PEB	C2D-C3D	9.60	1.46	1.34
29	A5	203	PEB	C2D-C3D	9.59	1.46	1.34
29	A8	203	PEB	C2D-C3D	9.59	1.46	1.34
29	M3	201	PEB	C2D-C3D	9.59	1.46	1.34
29	MO	201	PEB	C2D-C3D	9.59	1.46	1.34
29	EJ	202	PEB	C2D-C3D	9.58	1.46	1.34
29	EL	202	PEB	C2D-C3D	9.58	1.46	1.34
29	CA	202	PEB	C2D-C3D	9.58	1.46	1.34
29	CN	202	PEB	C2D-C3D	9.58	1.46	1.34
29	BA	203	PEB	C2D-C3D	9.57	1.46	1.34
29	BN	203	PEB	C2D-C3D	9.57	1.46	1.34
29	EC	202	PEB	C2D-C3D	9.56	1.46	1.34
29	EE	202	PEB	C2D-C3D	9.56	1.46	1.34
29	D3	202	PEB	C2D-C3D	9.56	1.46	1.34
29	IA	202	PEB	C2D-C3D	9.56	1.46	1.34
29	IN	202	PEB	C2D-C3D	9.56	1.46	1.34
29	cJ	202	PEB	C2D-C3D	9.55	1.46	1.34
29	cL	202	PEB	C2D-C3D	9.55	1.46	1.34
29	AC	202	PEB	C2D-C3D	9.55	1.46	1.34
29	AE	202	PEB	C2D-C3D	9.55	1.46	1.34
29	zJ	501	PEB	C2D-C3D	9.55	1.46	1.34
29	GC	202	PEB	C2D-C3D	9.54	1.46	1.34
29	GE	202	PEB	C2D-C3D	9.54	1.46	1.34
29	KJ	202	PEB	C2D-C3D	9.54	1.46	1.34
29	KL	202	PEB	C2D-C3D	9.54	1.46	1.34
29	h1	202	PEB	C2D-C3D	9.54	1.46	1.34
29	hK	202	PEB	C2D-C3D	9.54	1.46	1.34
29	WJ	203	PEB	C2D-C3D	9.53	1.46	1.34
29	WL	203	PEB	C2D-C3D	9.53	1.46	1.34
29	l1	202	PEB	C2D-C3D	9.53	1.46	1.34
29	lK	202	PEB	C2D-C3D	9.53	1.46	1.34
29	KA	202	PEB	C2D-C3D	9.53	1.46	1.34
29	SJ	202	PEB	C2D-C3D	9.53	1.46	1.34
29	SL	202	PEB	C2D-C3D	9.53	1.46	1.34
29	KN	202	PEB	C2D-C3D	9.53	1.46	1.34
29	b1	202	PEB	C2D-C3D	9.53	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	bK	202	PEB	C2D-C3D	9.53	1.46	1.34
29	EA	202	PEB	C2D-C3D	9.53	1.46	1.34
29	IJ	202	PEB	C2D-C3D	9.53	1.46	1.34
29	IL	202	PEB	C2D-C3D	9.53	1.46	1.34
29	EN	202	PEB	C2D-C3D	9.53	1.46	1.34
29	KC	203	PEB	C2D-C3D	9.53	1.46	1.34
29	KE	203	PEB	C2D-C3D	9.53	1.46	1.34
29	zL	501	PEB	C2D-C3D	9.53	1.46	1.34
29	sJ	202	PEB	C2D-C3D	9.53	1.46	1.34
29	sL	202	PEB	C2D-C3D	9.53	1.46	1.34
29	aJ	202	PEB	C2D-C3D	9.53	1.46	1.34
29	aL	202	PEB	C2D-C3D	9.53	1.46	1.34
29	Q1	202	PEB	C2D-C3D	9.52	1.46	1.34
29	CC	202	PEB	C2D-C3D	9.52	1.46	1.34
29	CE	202	PEB	C2D-C3D	9.52	1.46	1.34
29	YJ	202	PEB	C2D-C3D	9.52	1.46	1.34
29	QK	202	PEB	C2D-C3D	9.52	1.46	1.34
29	YL	202	PEB	C2D-C3D	9.52	1.46	1.34
29	OJ	202	PEB	C2D-C3D	9.52	1.46	1.34
29	OL	202	PEB	C2D-C3D	9.52	1.46	1.34
29	S1	202	PEB	C2D-C3D	9.51	1.46	1.34
29	eJ	202	PEB	C2D-C3D	9.51	1.46	1.34
29	SK	202	PEB	C2D-C3D	9.51	1.46	1.34
29	eL	202	PEB	C2D-C3D	9.51	1.46	1.34
29	N3	201	PEB	C2D-C3D	9.51	1.46	1.34
29	W1	202	PEB	C2D-C3D	9.50	1.46	1.34
29	WK	202	PEB	C2D-C3D	9.50	1.46	1.34
29	O1	202	PEB	C2D-C3D	9.50	1.46	1.34
29	OK	202	PEB	C2D-C3D	9.50	1.46	1.34
29	CJ	202	PEB	C2D-C3D	9.50	1.46	1.34
29	CL	202	PEB	C2D-C3D	9.50	1.46	1.34
29	MJ	202	PEB	C2D-C3D	9.50	1.46	1.34
29	ML	202	PEB	C2D-C3D	9.50	1.46	1.34
29	U1	203	PEB	C2D-C3D	9.49	1.46	1.34
29	d1	202	PEB	C2D-C3D	9.49	1.46	1.34
29	UK	203	PEB	C2D-C3D	9.49	1.46	1.34
29	dK	202	PEB	C2D-C3D	9.49	1.46	1.34
29	uJ	203	PEB	C2D-C3D	9.49	1.46	1.34
29	uL	203	PEB	C2D-C3D	9.49	1.46	1.34
29	qJ	202	PEB	C2D-C3D	9.49	1.46	1.34
29	qL	202	PEB	C2D-C3D	9.49	1.46	1.34
29	NO	201	PEB	C2D-C3D	9.48	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	fI	202	PEB	C2D-C3D	9.48	1.46	1.34
29	fK	202	PEB	C2D-C3D	9.48	1.46	1.34
29	AJ	202	PEB	C2D-C3D	9.48	1.46	1.34
29	AL	202	PEB	C2D-C3D	9.48	1.46	1.34
29	oJ	202	PEB	C2D-C3D	9.48	1.46	1.34
29	oL	202	PEB	C2D-C3D	9.48	1.46	1.34
29	Z1	203	PEB	C2D-C3D	9.47	1.46	1.34
29	ZK	203	PEB	C2D-C3D	9.47	1.46	1.34
29	IC	202	PEB	C2D-C3D	9.47	1.46	1.34
29	IE	202	PEB	C2D-C3D	9.47	1.46	1.34
29	BC	202	PEB	C2D-C3D	9.47	1.46	1.34
29	BE	202	PEB	C2D-C3D	9.47	1.46	1.34
29	kJ	202	PEB	C2D-C3D	9.47	1.46	1.34
29	kL	202	PEB	C2D-C3D	9.47	1.46	1.34
29	AC	203	PEB	C2D-C3D	9.47	1.46	1.34
29	AE	203	PEB	C2D-C3D	9.47	1.46	1.34
29	gJ	202	PEB	C2D-C3D	9.47	1.46	1.34
29	gL	202	PEB	C2D-C3D	9.47	1.46	1.34
29	UJ	202	PEB	C2D-C3D	9.46	1.46	1.34
29	UL	202	PEB	C2D-C3D	9.46	1.46	1.34
29	iI	202	PEB	C2D-C3D	9.46	1.46	1.34
29	LC	202	PEB	C2D-C3D	9.46	1.46	1.34
29	LE	202	PEB	C2D-C3D	9.46	1.46	1.34
29	iK	202	PEB	C2D-C3D	9.46	1.46	1.34
29	QJ	202	PEB	C2D-C3D	9.46	1.46	1.34
29	QL	202	PEB	C2D-C3D	9.46	1.46	1.34
29	GJ	202	PEB	C2D-C3D	9.46	1.46	1.34
29	GL	202	PEB	C2D-C3D	9.46	1.46	1.34
29	FC	202	PEB	C2D-C3D	9.46	1.46	1.34
29	FE	202	PEB	C2D-C3D	9.46	1.46	1.34
29	cI	202	PEB	C2D-C3D	9.45	1.46	1.34
29	cK	202	PEB	C2D-C3D	9.45	1.46	1.34
29	jI	202	PEB	C2D-C3D	9.45	1.46	1.34
29	jK	202	PEB	C2D-C3D	9.45	1.46	1.34
29	iJ	202	PEB	C2D-C3D	9.45	1.46	1.34
29	iL	202	PEB	C2D-C3D	9.45	1.46	1.34
29	mJ	202	PEB	C2D-C3D	9.45	1.46	1.34
29	mL	202	PEB	C2D-C3D	9.45	1.46	1.34
29	jI	203	PEB	C2D-C3D	9.44	1.46	1.34
29	jK	203	PEB	C2D-C3D	9.44	1.46	1.34
29	Z1	201	PEB	C2D-C3D	9.44	1.46	1.34
29	eI	202	PEB	C2D-C3D	9.44	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	ZK	201	PEB	C2D-C3D	9.44	1.46	1.34
29	eK	202	PEB	C2D-C3D	9.44	1.46	1.34
29	NB	201	PEB	C2D-C3D	9.44	1.46	1.34
29	NM	201	PEB	C2D-C3D	9.44	1.46	1.34
29	KC	201	PEB	C2D-C3D	9.43	1.46	1.34
29	KE	201	PEB	C2D-C3D	9.43	1.46	1.34
29	AF	305	PEB	C2D-C3D	9.43	1.46	1.34
29	AI	305	PEB	C2D-C3D	9.43	1.46	1.34
29	HC	202	PEB	C2D-C3D	9.42	1.46	1.34
29	HE	202	PEB	C2D-C3D	9.42	1.46	1.34
29	a1	202	PEB	C2D-C3D	9.42	1.46	1.34
29	aK	202	PEB	C2D-C3D	9.42	1.46	1.34
29	iB	201	PEB	C2D-C3D	9.42	1.46	1.34
29	iM	201	PEB	C2D-C3D	9.42	1.46	1.34
29	K5	201	PEB	C2D-C3D	9.42	1.46	1.34
29	K8	201	PEB	C2D-C3D	9.42	1.46	1.34
29	PB	201	PEB	C2D-C3D	9.42	1.46	1.34
29	mB	201	PEB	C2D-C3D	9.42	1.46	1.34
29	PM	201	PEB	C2D-C3D	9.42	1.46	1.34
29	mM	201	PEB	C2D-C3D	9.42	1.46	1.34
29	I5	201	PEB	C2D-C3D	9.42	1.46	1.34
29	I8	201	PEB	C2D-C3D	9.42	1.46	1.34
29	DB	201	PEB	C2D-C3D	9.42	1.46	1.34
29	DM	201	PEB	C2D-C3D	9.42	1.46	1.34
29	C5	201	PEB	C2D-C3D	9.41	1.46	1.34
29	k1	202	PEB	C2D-C3D	9.41	1.46	1.34
29	kK	202	PEB	C2D-C3D	9.41	1.46	1.34
29	U1	201	PEB	C2D-C3D	9.40	1.46	1.34
29	UK	201	PEB	C2D-C3D	9.40	1.46	1.34
29	V1	202	PEB	C2D-C3D	9.40	1.46	1.34
29	VK	202	PEB	C2D-C3D	9.40	1.46	1.34
29	FB	201	PEB	C2D-C3D	9.40	1.46	1.34
29	FM	201	PEB	C2D-C3D	9.40	1.46	1.34
29	RB	201	PEB	C2D-C3D	9.40	1.46	1.34
29	RM	201	PEB	C2D-C3D	9.40	1.46	1.34
29	R1	202	PEB	C2D-C3D	9.40	1.46	1.34
29	RK	202	PEB	C2D-C3D	9.40	1.46	1.34
29	cB	201	PEB	C2D-C3D	9.39	1.46	1.34
29	cM	201	PEB	C2D-C3D	9.39	1.46	1.34
29	eB	201	PEB	C2D-C3D	9.39	1.46	1.34
29	eM	201	PEB	C2D-C3D	9.39	1.46	1.34
29	LB	201	PEB	C2D-C3D	9.38	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LM	201	PEB	C2D-C3D	9.38	1.46	1.34
29	g1	202	PEB	C2D-C3D	9.38	1.46	1.34
29	A5	201	PEB	C2D-C3D	9.38	1.46	1.34
29	A8	201	PEB	C2D-C3D	9.38	1.46	1.34
29	C8	201	PEB	C2D-C3D	9.38	1.46	1.34
29	gK	202	PEB	C2D-C3D	9.38	1.46	1.34
29	JB	201	PEB	C2D-C3D	9.38	1.46	1.34
29	JM	201	PEB	C2D-C3D	9.38	1.46	1.34
29	B3	201	PEB	C2D-C3D	9.36	1.46	1.34
29	BO	201	PEB	C2D-C3D	9.36	1.46	1.34
29	F3	201	PEB	C2D-C3D	9.36	1.46	1.34
29	FO	201	PEB	C2D-C3D	9.36	1.46	1.34
29	P1	202	PEB	C2D-C3D	9.36	1.46	1.34
29	H3	201	PEB	C2D-C3D	9.36	1.46	1.34
29	PK	202	PEB	C2D-C3D	9.36	1.46	1.34
29	HO	201	PEB	C2D-C3D	9.36	1.46	1.34
29	kB	201	PEB	C2D-C3D	9.36	1.46	1.34
29	kM	201	PEB	C2D-C3D	9.36	1.46	1.34
29	VB	201	PEB	C2D-C3D	9.36	1.46	1.34
29	VM	201	PEB	C2D-C3D	9.36	1.46	1.34
29	ZJ	203	PEB	C2D-C3D	9.35	1.46	1.34
29	ZL	203	PEB	C2D-C3D	9.35	1.46	1.34
29	XB	201	PEB	C2D-C3D	9.35	1.46	1.34
29	XM	201	PEB	C2D-C3D	9.35	1.46	1.34
29	TB	201	PEB	C2D-C3D	9.35	1.46	1.34
29	TM	201	PEB	C2D-C3D	9.35	1.46	1.34
29	ZB	201	PEB	C2D-C3D	9.35	1.46	1.34
29	ZM	201	PEB	C2D-C3D	9.35	1.46	1.34
29	gB	201	PEB	C2D-C3D	9.34	1.46	1.34
29	gM	201	PEB	C2D-C3D	9.34	1.46	1.34
29	HB	201	PEB	C2D-C3D	9.34	1.46	1.34
29	HM	201	PEB	C2D-C3D	9.34	1.46	1.34
29	L3	201	PEB	C2D-C3D	9.33	1.46	1.34
29	LO	201	PEB	C2D-C3D	9.33	1.46	1.34
29	NO	202	PEB	C2D-C3D	9.32	1.46	1.34
29	TR	203	PEB	C2D-C3D	9.32	1.46	1.34
29	PJ	203	PEB	C2D-C3D	9.32	1.46	1.34
29	PL	203	PEB	C2D-C3D	9.32	1.46	1.34
29	VR	201	PEB	C2D-C3D	9.32	1.46	1.34
29	IJ	203	PEB	C2D-C3D	9.32	1.46	1.34
29	IL	203	PEB	C2D-C3D	9.32	1.46	1.34
29	FJ	203	PEB	C2D-C3D	9.31	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FL	203	PEB	C2D-C3D	9.31	1.46	1.34
29	MQ	407	PEB	C2D-C3D	9.31	1.46	1.34
29	e2	402	PEB	C2D-C3D	9.31	1.46	1.34
29	XR	201	PEB	C2D-C3D	9.31	1.46	1.34
29	fJ	203	PEB	C2D-C3D	9.31	1.46	1.34
29	fL	203	PEB	C2D-C3D	9.31	1.46	1.34
29	pJ	203	PEB	C2D-C3D	9.31	1.46	1.34
29	pL	203	PEB	C2D-C3D	9.31	1.46	1.34
29	G8	202	PEB	C2D-C3D	9.31	1.46	1.34
29	G5	202	PEB	C2D-C3D	9.30	1.46	1.34
29	jJ	203	PEB	C2D-C3D	9.30	1.46	1.34
29	jL	203	PEB	C2D-C3D	9.30	1.46	1.34
29	dJ	203	PEB	C2D-C3D	9.30	1.46	1.34
29	vJ	202	PEB	C2D-C3D	9.30	1.46	1.34
29	dL	203	PEB	C2D-C3D	9.30	1.46	1.34
29	vL	202	PEB	C2D-C3D	9.30	1.46	1.34
29	rJ	203	PEB	C2D-C3D	9.30	1.46	1.34
29	rL	203	PEB	C2D-C3D	9.30	1.46	1.34
29	D3	201	PEB	C2D-C3D	9.30	1.46	1.34
29	FA	201	PEB	C2D-C3D	9.30	1.46	1.34
29	VJ	202	PEB	C2D-C3D	9.30	1.46	1.34
29	VL	202	PEB	C2D-C3D	9.30	1.46	1.34
29	FN	201	PEB	C2D-C3D	9.30	1.46	1.34
29	DO	201	PEB	C2D-C3D	9.30	1.46	1.34
29	RR	203	PEB	C2D-C3D	9.29	1.46	1.34
29	N2	201	PEB	C2D-C3D	9.29	1.46	1.34
29	LJ	202	PEB	C2D-C3D	9.29	1.46	1.34
29	LL	202	PEB	C2D-C3D	9.29	1.46	1.34
29	cF	202	PEB	C2D-C3D	9.29	1.46	1.34
29	cI	202	PEB	C2D-C3D	9.29	1.46	1.34
29	HA	201	PEB	C2D-C3D	9.29	1.46	1.34
29	TJ	203	PEB	C2D-C3D	9.29	1.46	1.34
29	TL	203	PEB	C2D-C3D	9.29	1.46	1.34
29	HN	201	PEB	C2D-C3D	9.29	1.46	1.34
29	bJ	203	PEB	C2D-C3D	9.29	1.46	1.34
29	bL	203	PEB	C2D-C3D	9.29	1.46	1.34
29	A7	301	PEB	C2D-C3D	9.28	1.46	1.34
29	A9	301	PEB	C2D-C3D	9.28	1.46	1.34
29	K8	202	PEB	C2D-C3D	9.28	1.46	1.34
29	M3	202	PEB	C2D-C3D	9.28	1.46	1.34
29	MO	202	PEB	C2D-C3D	9.28	1.46	1.34
29	HJ	202	PEB	C2D-C3D	9.28	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	RJ	203	PEB	C2D-C3D	9.28	1.46	1.34
29	HL	202	PEB	C2D-C3D	9.28	1.46	1.34
29	RL	203	PEB	C2D-C3D	9.28	1.46	1.34
29	J3	201	PEB	C2D-C3D	9.28	1.46	1.34
29	DA	201	PEB	C2D-C3D	9.28	1.46	1.34
29	AM	301	PEB	C2D-C3D	9.28	1.46	1.34
29	DN	201	PEB	C2D-C3D	9.28	1.46	1.34
29	JO	201	PEB	C2D-C3D	9.28	1.46	1.34
29	DJ	202	PEB	C2D-C3D	9.28	1.46	1.34
29	DL	202	PEB	C2D-C3D	9.28	1.46	1.34
29	NJ	203	PEB	C2D-C3D	9.28	1.46	1.34
29	NL	203	PEB	C2D-C3D	9.28	1.46	1.34
29	MG	405	PEB	C2D-C3D	9.27	1.46	1.34
29	XJ	203	PEB	C2D-C3D	9.27	1.46	1.34
29	XL	203	PEB	C2D-C3D	9.27	1.46	1.34
29	BJ	203	PEB	C2D-C3D	9.27	1.46	1.34
29	BL	203	PEB	C2D-C3D	9.27	1.46	1.34
29	JA	201	PEB	C2D-C3D	9.27	1.46	1.34
29	RF	202	PEB	C2D-C3D	9.27	1.46	1.34
29	RI	202	PEB	C2D-C3D	9.27	1.46	1.34
29	JN	201	PEB	C2D-C3D	9.27	1.46	1.34
29	LA	201	PEB	C2D-C3D	9.27	1.46	1.34
29	AB	301	PEB	C2D-C3D	9.27	1.46	1.34
29	gF	203	PEB	C2D-C3D	9.27	1.46	1.34
29	gI	203	PEB	C2D-C3D	9.27	1.46	1.34
29	LN	201	PEB	C2D-C3D	9.27	1.46	1.34
29	N3	202	PEB	C2D-C3D	9.27	1.46	1.34
29	B4	202	PEB	C2D-C3D	9.27	1.46	1.34
29	xJ	301	PEB	C2D-C3D	9.27	1.46	1.34
29	N2	203	PEB	C2D-C3D	9.26	1.46	1.34
29	V2	201	PEB	C2D-C3D	9.26	1.46	1.34
29	bF	202	PEB	C2D-C3D	9.26	1.46	1.34
29	bI	202	PEB	C2D-C3D	9.26	1.46	1.34
29	eF	203	PEB	C2D-C3D	9.26	1.46	1.34
29	eI	203	PEB	C2D-C3D	9.26	1.46	1.34
29	nJ	203	PEB	C2D-C3D	9.26	1.46	1.34
29	nL	203	PEB	C2D-C3D	9.26	1.46	1.34
29	hJ	203	PEB	C2D-C3D	9.26	1.46	1.34
29	hL	203	PEB	C2D-C3D	9.26	1.46	1.34
29	JD	202	PEB	C2D-C3D	9.26	1.46	1.34
29	NR	203	PEB	C2D-C3D	9.26	1.46	1.34
29	T2	203	PEB	C2D-C3D	9.26	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I3	201	PEB	C2D-C3D	9.26	1.46	1.34
29	IO	201	PEB	C2D-C3D	9.26	1.46	1.34
29	C5	202	PEB	C2D-C3D	9.26	1.46	1.34
29	aF	203	PEB	C2D-C3D	9.26	1.46	1.34
29	aI	203	PEB	C2D-C3D	9.26	1.46	1.34
29	BD	202	PEB	C2D-C3D	9.26	1.46	1.34
29	F5	202	PEB	C2D-C3D	9.25	1.46	1.34
29	F8	202	PEB	C2D-C3D	9.25	1.46	1.34
29	AG	201	PEB	C2D-C3D	9.25	1.46	1.34
29	AQ	201	PEB	C2D-C3D	9.25	1.46	1.34
29	BA	201	PEB	C2D-C3D	9.25	1.46	1.34
29	BN	201	PEB	C2D-C3D	9.25	1.46	1.34
29	tJ	202	PEB	C2D-C3D	9.25	1.46	1.34
29	tL	202	PEB	C2D-C3D	9.25	1.46	1.34
29	A5	202	PEB	C2D-C3D	9.25	1.46	1.34
29	A8	202	PEB	C2D-C3D	9.25	1.46	1.34
29	TF	202	PEB	C2D-C3D	9.25	1.46	1.34
29	TI	202	PEB	C2D-C3D	9.25	1.46	1.34
29	PF	203	PEB	C2D-C3D	9.24	1.46	1.34
29	PI	203	PEB	C2D-C3D	9.24	1.46	1.34
29	GG	201	PEB	C2D-C3D	9.24	1.46	1.34
29	xL	301	PEB	C2D-C3D	9.24	1.46	1.34
29	GQ	201	PEB	C2D-C3D	9.24	1.46	1.34
29	LJ	201	PEB	C2D-C3D	9.24	1.46	1.34
29	LL	201	PEB	C2D-C3D	9.24	1.46	1.34
29	L4	202	PEB	C2D-C3D	9.24	1.46	1.34
29	YB	201	PEB	C2D-C3D	9.24	1.46	1.34
29	YM	201	PEB	C2D-C3D	9.24	1.46	1.34
29	ZF	202	PEB	C2D-C3D	9.24	1.46	1.34
29	ZI	202	PEB	C2D-C3D	9.24	1.46	1.34
29	R2	203	PEB	C2D-C3D	9.24	1.46	1.34
29	F4	202	PEB	C2D-C3D	9.24	1.46	1.34
29	QF	202	PEB	C2D-C3D	9.24	1.46	1.34
29	QI	202	PEB	C2D-C3D	9.24	1.46	1.34
29	K5	202	PEB	C2D-C3D	9.24	1.46	1.34
29	IG	201	PEB	C2D-C3D	9.23	1.46	1.34
29	IQ	201	PEB	C2D-C3D	9.23	1.46	1.34
29	JJ	203	PEB	C2D-C3D	9.23	1.46	1.34
29	JL	203	PEB	C2D-C3D	9.23	1.46	1.34
29	VB	202	PEB	C2D-C3D	9.23	1.46	1.34
29	VM	202	PEB	C2D-C3D	9.23	1.46	1.34
29	mB	202	PEB	C2D-C3D	9.23	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mM	202	PEB	C2D-C3D	9.23	1.46	1.34
29	HG	202	PEB	C2D-C3D	9.23	1.46	1.34
29	HQ	202	PEB	C2D-C3D	9.23	1.46	1.34
29	NR	201	PEB	C2D-C3D	9.23	1.46	1.34
29	H5	202	PEB	C2D-C3D	9.23	1.46	1.34
29	YF	203	PEB	C2D-C3D	9.23	1.46	1.34
29	YI	203	PEB	C2D-C3D	9.23	1.46	1.34
29	LD	202	PEB	C2D-C3D	9.22	1.46	1.34
29	EG	201	PEB	C2D-C3D	9.22	1.46	1.34
29	EQ	201	PEB	C2D-C3D	9.22	1.46	1.34
29	O7	202	PEB	C2D-C3D	9.22	1.46	1.34
29	O9	202	PEB	C2D-C3D	9.22	1.46	1.34
29	VR	203	PEB	C2D-C3D	9.22	1.46	1.34
29	rJ	201	PEB	C2D-C3D	9.22	1.46	1.34
29	rL	201	PEB	C2D-C3D	9.22	1.46	1.34
29	L8	202	PEB	C2D-C3D	9.22	1.46	1.34
29	C8	202	PEB	C2D-C3D	9.22	1.46	1.34
29	TB	202	PEB	C2D-C3D	9.22	1.46	1.34
29	TM	202	PEB	C2D-C3D	9.22	1.46	1.34
29	Z7	201	PEB	C2D-C3D	9.22	1.46	1.34
29	Z9	201	PEB	C2D-C3D	9.22	1.46	1.34
29	j7	202	PEB	C2D-C3D	9.22	1.46	1.34
29	j9	202	PEB	C2D-C3D	9.22	1.46	1.34
29	mF	203	PEB	C2D-C3D	9.22	1.46	1.34
29	mI	203	PEB	C2D-C3D	9.22	1.46	1.34
29	B5	202	PEB	C2D-C3D	9.22	1.46	1.34
29	FD	202	PEB	C2D-C3D	9.22	1.46	1.34
29	JG	202	PEB	C2D-C3D	9.21	1.46	1.34
29	JQ	202	PEB	C2D-C3D	9.21	1.46	1.34
29	f7	202	PEB	C2D-C3D	9.21	1.46	1.34
29	f9	202	PEB	C2D-C3D	9.21	1.46	1.34
29	X2	202	PEB	C2D-C3D	9.21	1.46	1.34
29	wJ	301	PEB	C2D-C3D	9.21	1.46	1.34
29	XR	203	PEB	C2D-C3D	9.21	1.46	1.34
29	RJ	201	PEB	C2D-C3D	9.21	1.46	1.34
29	RL	201	PEB	C2D-C3D	9.21	1.46	1.34
29	RB	202	PEB	C2D-C3D	9.21	1.46	1.34
29	gB	202	PEB	C2D-C3D	9.21	1.46	1.34
29	UF	203	PEB	C2D-C3D	9.21	1.46	1.34
29	UI	203	PEB	C2D-C3D	9.21	1.46	1.34
29	fJ	201	PEB	C2D-C3D	9.21	1.46	1.34
29	fL	201	PEB	C2D-C3D	9.21	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	RM	202	PEB	C2D-C3D	9.21	1.46	1.34
29	gM	202	PEB	C2D-C3D	9.21	1.46	1.34
29	fF	202	PEB	C2D-C3D	9.21	1.46	1.34
29	fI	202	PEB	C2D-C3D	9.21	1.46	1.34
29	DJ	201	PEB	C2D-C3D	9.21	1.46	1.34
29	DL	201	PEB	C2D-C3D	9.21	1.46	1.34
29	aB	203	PEB	C2D-C3D	9.20	1.46	1.34
29	aM	203	PEB	C2D-C3D	9.20	1.46	1.34
29	DG	202	PEB	C2D-C3D	9.20	1.46	1.34
29	DQ	202	PEB	C2D-C3D	9.20	1.46	1.34
29	PJ	201	PEB	C2D-C3D	9.20	1.46	1.34
29	IJ	201	PEB	C2D-C3D	9.20	1.46	1.34
29	PL	201	PEB	C2D-C3D	9.20	1.46	1.34
29	IL	201	PEB	C2D-C3D	9.20	1.46	1.34
29	OF	202	PEB	C2D-C3D	9.20	1.46	1.34
29	FG	202	PEB	C2D-C3D	9.20	1.46	1.34
29	OI	202	PEB	C2D-C3D	9.20	1.46	1.34
29	FQ	202	PEB	C2D-C3D	9.20	1.46	1.34
29	d7	202	PEB	C2D-C3D	9.20	1.46	1.34
29	d9	202	PEB	C2D-C3D	9.20	1.46	1.34
29	A3	201	PEB	C2D-C3D	9.20	1.46	1.34
29	HB	202	PEB	C2D-C3D	9.20	1.46	1.34
29	PF	201	PEB	C2D-C3D	9.20	1.46	1.34
29	eF	201	PEB	C2D-C3D	9.20	1.46	1.34
29	PI	201	PEB	C2D-C3D	9.20	1.46	1.34
29	eI	201	PEB	C2D-C3D	9.20	1.46	1.34
29	HM	202	PEB	C2D-C3D	9.20	1.46	1.34
29	AO	201	PEB	C2D-C3D	9.20	1.46	1.34
29	VF	203	PEB	C2D-C3D	9.20	1.46	1.34
29	VI	203	PEB	C2D-C3D	9.20	1.46	1.34
29	BG	202	PEB	C2D-C3D	9.20	1.46	1.34
29	wL	301	PEB	C2D-C3D	9.20	1.46	1.34
29	BQ	202	PEB	C2D-C3D	9.20	1.46	1.34
29	QR	202	PEB	C2D-C3D	9.20	1.46	1.34
29	D4	202	PEB	C2D-C3D	9.20	1.46	1.34
29	L5	202	PEB	C2D-C3D	9.20	1.46	1.34
29	SF	202	PEB	C2D-C3D	9.19	1.46	1.34
29	SI	202	PEB	C2D-C3D	9.19	1.46	1.34
29	TR	201	PEB	C2D-C3D	9.19	1.46	1.34
29	tJ	201	PEB	C2D-C3D	9.19	1.46	1.34
29	tL	201	PEB	C2D-C3D	9.19	1.46	1.34
29	G3	201	PEB	C2D-C3D	9.19	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kB	202	PEB	C2D-C3D	9.19	1.46	1.34
29	kM	202	PEB	C2D-C3D	9.19	1.46	1.34
29	GO	201	PEB	C2D-C3D	9.19	1.46	1.34
29	H4	202	PEB	C2D-C3D	9.19	1.46	1.34
29	W7	202	PEB	C2D-C3D	9.19	1.46	1.34
29	W9	202	PEB	C2D-C3D	9.19	1.46	1.34
29	Z7	202	PEB	C2D-C3D	9.19	1.46	1.34
29	Z9	202	PEB	C2D-C3D	9.19	1.46	1.34
29	HD	202	PEB	C2D-C3D	9.19	1.46	1.34
29	pJ	201	PEB	C2D-C3D	9.19	1.46	1.34
29	pL	201	PEB	C2D-C3D	9.19	1.46	1.34
29	QB	202	PEB	C2D-C3D	9.19	1.46	1.34
29	QM	202	PEB	C2D-C3D	9.19	1.46	1.34
29	V2	203	PEB	C2D-C3D	9.19	1.46	1.34
29	S7	202	PEB	C2D-C3D	9.19	1.46	1.34
29	S9	202	PEB	C2D-C3D	9.19	1.46	1.34
29	FB	202	PEB	C2D-C3D	9.19	1.46	1.34
29	FM	202	PEB	C2D-C3D	9.19	1.46	1.34
29	J4	202	PEB	C2D-C3D	9.18	1.46	1.34
29	hF	202	PEB	C2D-C3D	9.18	1.46	1.34
29	hI	202	PEB	C2D-C3D	9.18	1.46	1.34
29	I8	202	PEB	C2D-C3D	9.18	1.46	1.34
29	DB	202	PEB	C2D-C3D	9.18	1.46	1.34
29	FJ	201	PEB	C2D-C3D	9.18	1.46	1.34
29	FL	201	PEB	C2D-C3D	9.18	1.46	1.34
29	DM	202	PEB	C2D-C3D	9.18	1.46	1.34
29	CG	201	PEB	C2D-C3D	9.18	1.46	1.34
29	CQ	201	PEB	C2D-C3D	9.18	1.46	1.34
29	F5	203	PEB	C2D-C3D	9.18	1.46	1.34
29	L5	201	PEB	C2D-C3D	9.18	1.46	1.34
29	b7	202	PEB	C2D-C3D	9.18	1.46	1.34
29	F8	203	PEB	C2D-C3D	9.18	1.46	1.34
29	b9	202	PEB	C2D-C3D	9.18	1.46	1.34
29	M2	202	PEB	C2D-C3D	9.18	1.46	1.34
29	kF	203	PEB	C2D-C3D	9.18	1.46	1.34
29	kI	203	PEB	C2D-C3D	9.18	1.46	1.34
29	T2	201	PEB	C2D-C3D	9.18	1.46	1.34
29	cB	202	PEB	C2D-C3D	9.18	1.46	1.34
29	cM	202	PEB	C2D-C3D	9.18	1.46	1.34
29	b7	201	PEB	C2D-C3D	9.18	1.46	1.34
29	j7	201	PEB	C2D-C3D	9.18	1.46	1.34
29	b9	201	PEB	C2D-C3D	9.18	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	j9	201	PEB	C2D-C3D	9.18	1.46	1.34
29	NJ	201	PEB	C2D-C3D	9.18	1.46	1.34
29	NL	201	PEB	C2D-C3D	9.18	1.46	1.34
29	JJ	201	PEB	C2D-C3D	9.18	1.46	1.34
29	JL	201	PEB	C2D-C3D	9.18	1.46	1.34
29	WF	202	PEB	C2D-C3D	9.18	1.46	1.34
29	iF	203	PEB	C2D-C3D	9.18	1.46	1.34
29	WI	202	PEB	C2D-C3D	9.18	1.46	1.34
29	iI	203	PEB	C2D-C3D	9.18	1.46	1.34
29	K3	201	PEB	C2D-C3D	9.18	1.46	1.34
29	KO	201	PEB	C2D-C3D	9.18	1.46	1.34
29	C3	201	PEB	C2D-C3D	9.17	1.46	1.34
29	CO	201	PEB	C2D-C3D	9.17	1.46	1.34
29	I5	202	PEB	C2D-C3D	9.17	1.46	1.34
29	bJ	201	PEB	C2D-C3D	9.17	1.46	1.34
29	bL	201	PEB	C2D-C3D	9.17	1.46	1.34
29	O2	202	PEB	C2D-C3D	9.17	1.46	1.34
29	R2	201	PEB	C2D-C3D	9.17	1.46	1.34
29	jF	202	PEB	C2D-C3D	9.17	1.46	1.34
29	jI	202	PEB	C2D-C3D	9.17	1.46	1.34
29	dJ	201	PEB	C2D-C3D	9.17	1.46	1.34
29	dL	201	PEB	C2D-C3D	9.17	1.46	1.34
29	iB	202	PEB	C2D-C3D	9.17	1.46	1.34
29	iM	202	PEB	C2D-C3D	9.17	1.46	1.34
29	l7	201	PEB	C2D-C3D	9.17	1.46	1.34
29	l9	201	PEB	C2D-C3D	9.17	1.46	1.34
29	YF	201	PEB	C2D-C3D	9.17	1.46	1.34
29	dF	203	PEB	C2D-C3D	9.17	1.46	1.34
29	LG	202	PEB	C2D-C3D	9.17	1.46	1.34
29	YI	201	PEB	C2D-C3D	9.17	1.46	1.34
29	dI	203	PEB	C2D-C3D	9.17	1.46	1.34
29	LQ	201	PEB	C2D-C3D	9.17	1.46	1.34
29	h7	202	PEB	C2D-C3D	9.17	1.46	1.34
29	H8	202	PEB	C2D-C3D	9.17	1.46	1.34
29	h9	202	PEB	C2D-C3D	9.17	1.46	1.34
29	ZB	202	PEB	C2D-C3D	9.17	1.46	1.34
29	ZM	202	PEB	C2D-C3D	9.17	1.46	1.34
29	Q7	202	PEB	C2D-C3D	9.16	1.46	1.34
29	Q9	202	PEB	C2D-C3D	9.16	1.46	1.34
29	P2	202	PEB	C2D-C3D	9.16	1.46	1.34
29	JB	202	PEB	C2D-C3D	9.16	1.46	1.34
29	vJ	201	PEB	C2D-C3D	9.16	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	vL	201	PEB	C2D-C3D	9.16	1.46	1.34
29	JM	202	PEB	C2D-C3D	9.16	1.46	1.34
29	VF	201	PEB	C2D-C3D	9.16	1.46	1.34
29	VI	201	PEB	C2D-C3D	9.16	1.46	1.34
29	U7	201	PEB	C2D-C3D	9.16	1.46	1.34
29	U9	201	PEB	C2D-C3D	9.16	1.46	1.34
29	l7	202	PEB	C2D-C3D	9.16	1.46	1.34
29	l9	202	PEB	C2D-C3D	9.16	1.46	1.34
29	G5	203	PEB	C2D-C3D	9.16	1.46	1.34
29	YF	202	PEB	C2D-C3D	9.16	1.46	1.34
29	KG	201	PEB	C2D-C3D	9.16	1.46	1.34
29	YI	202	PEB	C2D-C3D	9.16	1.46	1.34
29	VJ	201	PEB	C2D-C3D	9.16	1.46	1.34
29	VL	201	PEB	C2D-C3D	9.16	1.46	1.34
29	KQ	201	PEB	C2D-C3D	9.16	1.46	1.34
29	lF	202	PEB	C2D-C3D	9.16	1.46	1.34
29	lI	202	PEB	C2D-C3D	9.16	1.46	1.34
29	TJ	201	PEB	C2D-C3D	9.15	1.46	1.34
29	TL	201	PEB	C2D-C3D	9.15	1.46	1.34
29	gF	201	PEB	C2D-C3D	9.15	1.46	1.34
29	gI	201	PEB	C2D-C3D	9.15	1.46	1.34
29	PR	202	PEB	C2D-C3D	9.15	1.46	1.34
29	d7	201	PEB	C2D-C3D	9.15	1.46	1.34
29	f7	201	PEB	C2D-C3D	9.15	1.46	1.34
29	B8	202	PEB	C2D-C3D	9.15	1.46	1.34
29	d9	201	PEB	C2D-C3D	9.15	1.46	1.34
29	f9	201	PEB	C2D-C3D	9.15	1.46	1.34
29	jJ	201	PEB	C2D-C3D	9.15	1.46	1.34
29	jL	201	PEB	C2D-C3D	9.15	1.46	1.34
29	WR	202	PEB	C2D-C3D	9.15	1.46	1.34
29	RR	201	PEB	C2D-C3D	9.15	1.46	1.34
29	kF	201	PEB	C2D-C3D	9.15	1.46	1.34
29	kI	201	PEB	C2D-C3D	9.15	1.46	1.34
29	E3	201	PEB	C2D-C3D	9.15	1.46	1.34
29	EO	201	PEB	C2D-C3D	9.15	1.46	1.34
29	KB	203	PEB	C2D-C3D	9.15	1.46	1.34
29	KM	203	PEB	C2D-C3D	9.15	1.46	1.34
29	DD	202	PEB	C2D-C3D	9.15	1.46	1.34
29	O7	201	PEB	C2D-C3D	9.15	1.46	1.34
29	O9	201	PEB	C2D-C3D	9.15	1.46	1.34
29	Q7	201	PEB	C2D-C3D	9.15	1.46	1.34
29	Q9	201	PEB	C2D-C3D	9.15	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	cF	201	PEB	C2D-C3D	9.14	1.46	1.34
29	mF	201	PEB	C2D-C3D	9.14	1.46	1.34
29	cI	201	PEB	C2D-C3D	9.14	1.46	1.34
29	mI	201	PEB	C2D-C3D	9.14	1.46	1.34
29	A9	304	PEB	C2D-C3D	9.14	1.46	1.34
29	aF	201	PEB	C2D-C3D	9.14	1.46	1.34
29	aI	201	PEB	C2D-C3D	9.14	1.46	1.34
29	LB	202	PEB	C2D-C3D	9.14	1.46	1.34
29	LM	202	PEB	C2D-C3D	9.14	1.46	1.34
29	S2	202	PEB	C2D-C3D	9.14	1.46	1.34
29	FG	201	PEB	C2D-C3D	9.14	1.46	1.34
29	TI	201	PEB	C2D-C3D	9.14	1.46	1.34
29	FQ	201	PEB	C2D-C3D	9.14	1.46	1.34
29	S7	201	PEB	C2D-C3D	9.14	1.46	1.34
29	h7	201	PEB	C2D-C3D	9.14	1.46	1.34
29	G8	203	PEB	C2D-C3D	9.14	1.46	1.34
29	S9	201	PEB	C2D-C3D	9.14	1.46	1.34
29	h9	201	PEB	C2D-C3D	9.14	1.46	1.34
29	MB	202	PEB	C2D-C3D	9.14	1.46	1.34
29	MM	202	PEB	C2D-C3D	9.14	1.46	1.34
29	BJ	201	PEB	C2D-C3D	9.14	1.46	1.34
29	nJ	201	PEB	C2D-C3D	9.14	1.46	1.34
29	BL	201	PEB	C2D-C3D	9.14	1.46	1.34
29	nL	201	PEB	C2D-C3D	9.14	1.46	1.34
29	Y7	201	PEB	C2D-C3D	9.14	1.46	1.34
29	Y9	201	PEB	C2D-C3D	9.14	1.46	1.34
29	b1	201	PEB	C2D-C3D	9.14	1.46	1.34
29	bK	201	PEB	C2D-C3D	9.14	1.46	1.34
29	hJ	201	PEB	C2D-C3D	9.13	1.46	1.34
29	hL	201	PEB	C2D-C3D	9.13	1.46	1.34
29	H5	203	PEB	C2D-C3D	9.13	1.46	1.34
29	XJ	201	PEB	C2D-C3D	9.13	1.46	1.34
29	XL	201	PEB	C2D-C3D	9.13	1.46	1.34
29	ZJ	201	PEB	C2D-C3D	9.13	1.46	1.34
29	ZL	201	PEB	C2D-C3D	9.13	1.46	1.34
29	B8	203	PEB	C2D-C3D	9.13	1.46	1.34
29	Q2	202	PEB	C2D-C3D	9.13	1.46	1.34
29	R7	201	PEB	C2D-C3D	9.13	1.46	1.34
29	R9	201	PEB	C2D-C3D	9.13	1.46	1.34
29	B5	203	PEB	C2D-C3D	9.12	1.46	1.34
29	U7	202	PEB	C2D-C3D	9.12	1.46	1.34
29	U9	202	PEB	C2D-C3D	9.12	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HG	201	PEB	C2D-C3D	9.12	1.46	1.34
29	HQ	201	PEB	C2D-C3D	9.12	1.46	1.34
29	Z1	202	PEB	C2D-C3D	9.12	1.46	1.34
29	ZK	202	PEB	C2D-C3D	9.12	1.46	1.34
29	CB	202	PEB	C2D-C3D	9.12	1.46	1.34
29	CM	202	PEB	C2D-C3D	9.12	1.46	1.34
29	RF	201	PEB	C2D-C3D	9.12	1.46	1.34
29	RI	201	PEB	C2D-C3D	9.12	1.46	1.34
29	SR	202	PEB	C2D-C3D	9.12	1.46	1.34
29	A7	305	PEB	C2D-C3D	9.11	1.46	1.34
29	A9	305	PEB	C2D-C3D	9.11	1.46	1.34
29	e7	201	PEB	C2D-C3D	9.11	1.46	1.34
29	e9	201	PEB	C2D-C3D	9.11	1.46	1.34
29	a7	201	PEB	C2D-C3D	9.11	1.46	1.34
29	a9	201	PEB	C2D-C3D	9.11	1.46	1.34
29	A7	304	PEB	C2D-C3D	9.11	1.46	1.34
29	g7	201	PEB	C2D-C3D	9.11	1.46	1.34
29	g9	201	PEB	C2D-C3D	9.11	1.46	1.34
29	c7	201	PEB	C2D-C3D	9.11	1.46	1.34
29	c9	201	PEB	C2D-C3D	9.11	1.46	1.34
29	G8	201	PEB	C2D-C3D	9.11	1.46	1.34
29	aB	202	PEB	C2D-C3D	9.11	1.46	1.34
29	aM	202	PEB	C2D-C3D	9.11	1.46	1.34
29	W7	201	PEB	C2D-C3D	9.11	1.46	1.34
29	W9	201	PEB	C2D-C3D	9.11	1.46	1.34
29	d1	201	PEB	C2D-C3D	9.11	1.46	1.34
29	dK	201	PEB	C2D-C3D	9.11	1.46	1.34
29	iF	201	PEB	C2D-C3D	9.11	1.46	1.34
29	iI	201	PEB	C2D-C3D	9.11	1.46	1.34
29	UB	202	PEB	C2D-C3D	9.10	1.46	1.34
29	MQ	401	PEB	C2D-C3D	9.10	1.46	1.34
29	OB	202	PEB	C2D-C3D	9.10	1.46	1.34
29	OM	202	PEB	C2D-C3D	9.10	1.46	1.34
29	CJ	201	PEB	C2D-C3D	9.10	1.46	1.34
29	CL	201	PEB	C2D-C3D	9.10	1.46	1.34
29	V7	201	PEB	C2D-C3D	9.10	1.46	1.34
29	V9	201	PEB	C2D-C3D	9.10	1.46	1.34
29	IB	202	PEB	C2D-C3D	9.10	1.46	1.34
29	IM	202	PEB	C2D-C3D	9.10	1.46	1.34
29	f1	201	PEB	C2D-C3D	9.10	1.46	1.34
29	fK	201	PEB	C2D-C3D	9.10	1.46	1.34
29	W1	201	PEB	C2D-C3D	9.10	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	WK	201	PEB	C2D-C3D	9.10	1.46	1.34
29	H8	201	PEB	C2D-C3D	9.10	1.46	1.34
29	mF	202	PEB	C2D-C3D	9.10	1.46	1.34
29	mI	202	PEB	C2D-C3D	9.10	1.46	1.34
29	OF	203	PEB	C2D-C3D	9.09	1.46	1.34
29	OI	203	PEB	C2D-C3D	9.09	1.46	1.34
29	mJ	201	PEB	C2D-C3D	9.09	1.46	1.34
29	mL	201	PEB	C2D-C3D	9.09	1.46	1.34
29	A1	301	PEB	C2D-C3D	9.09	1.46	1.34
29	j1	201	PEB	C2D-C3D	9.09	1.46	1.34
29	m7	201	PEB	C2D-C3D	9.09	1.46	1.34
29	m9	201	PEB	C2D-C3D	9.09	1.46	1.34
29	AK	301	PEB	C2D-C3D	9.09	1.46	1.34
29	jK	201	PEB	C2D-C3D	9.09	1.46	1.34
29	LG	201	PEB	C2D-C3D	9.09	1.46	1.34
29	MQ	402	PEB	C2D-C3D	9.09	1.46	1.34
29	W2	202	PEB	C2D-C3D	9.09	1.46	1.34
29	PF	202	PEB	C2D-C3D	9.09	1.46	1.34
29	PI	202	PEB	C2D-C3D	9.09	1.46	1.34
29	L8	201	PEB	C2D-C3D	9.09	1.46	1.34
29	AJ	201	PEB	C2D-C3D	9.09	1.46	1.34
29	AL	201	PEB	C2D-C3D	9.09	1.46	1.34
29	P7	201	PEB	C2D-C3D	9.09	1.46	1.34
29	k7	201	PEB	C2D-C3D	9.09	1.46	1.34
29	P9	201	PEB	C2D-C3D	9.09	1.46	1.34
29	k9	201	PEB	C2D-C3D	9.09	1.46	1.34
29	h1	201	PEB	C2D-C3D	9.09	1.46	1.34
29	hK	201	PEB	C2D-C3D	9.09	1.46	1.34
29	gF	202	PEB	C2D-C3D	9.08	1.46	1.34
29	gI	202	PEB	C2D-C3D	9.08	1.46	1.34
29	H5	201	PEB	C2D-C3D	9.08	1.46	1.34
29	EB	202	PEB	C2D-C3D	9.08	1.46	1.34
29	GJ	201	PEB	C2D-C3D	9.08	1.46	1.34
29	GL	201	PEB	C2D-C3D	9.08	1.46	1.34
29	EM	202	PEB	C2D-C3D	9.08	1.46	1.34
29	i7	201	PEB	C2D-C3D	9.08	1.46	1.34
29	i9	201	PEB	C2D-C3D	9.08	1.46	1.34
29	G5	201	PEB	C2D-C3D	9.08	1.46	1.34
29	T7	201	PEB	C2D-C3D	9.08	1.46	1.34
29	T9	201	PEB	C2D-C3D	9.08	1.46	1.34
29	F5	201	PEB	C2D-C3D	9.08	1.46	1.34
29	F8	201	PEB	C2D-C3D	9.08	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	fB	201	PEB	C2D-C3D	9.08	1.46	1.34
29	fM	201	PEB	C2D-C3D	9.08	1.46	1.34
29	kF	202	PEB	C2D-C3D	9.08	1.46	1.34
29	kI	202	PEB	C2D-C3D	9.08	1.46	1.34
29	YB	203	PEB	C2D-C3D	9.07	1.46	1.34
29	aF	202	PEB	C2D-C3D	9.07	1.46	1.34
29	aI	202	PEB	C2D-C3D	9.07	1.46	1.34
29	YM	203	PEB	C2D-C3D	9.07	1.46	1.34
29	JG	201	PEB	C2D-C3D	9.07	1.46	1.34
29	JQ	201	PEB	C2D-C3D	9.07	1.46	1.34
29	Q1	201	PEB	C2D-C3D	9.07	1.46	1.34
29	QK	201	PEB	C2D-C3D	9.07	1.46	1.34
29	L5	203	PEB	C2D-C3D	9.07	1.46	1.34
29	OB	201	PEB	C2D-C3D	9.07	1.46	1.34
29	OM	201	PEB	C2D-C3D	9.07	1.46	1.34
29	l1	201	PEB	C2D-C3D	9.07	1.46	1.34
29	WB	202	PEB	C2D-C3D	9.07	1.46	1.34
29	lK	201	PEB	C2D-C3D	9.07	1.46	1.34
29	WM	202	PEB	C2D-C3D	9.07	1.46	1.34
29	H8	203	PEB	C2D-C3D	9.07	1.46	1.34
29	EJ	201	PEB	C2D-C3D	9.07	1.46	1.34
29	EL	201	PEB	C2D-C3D	9.07	1.46	1.34
29	UR	202	PEB	C2D-C3D	9.07	1.46	1.34
29	GB	202	PEB	C2D-C3D	9.07	1.46	1.34
29	cJ	201	PEB	C2D-C3D	9.07	1.46	1.34
29	cL	201	PEB	C2D-C3D	9.07	1.46	1.34
29	GM	202	PEB	C2D-C3D	9.07	1.46	1.34
29	QB	204	PEB	C2D-C3D	9.06	1.46	1.34
29	AF	304	PEB	C2D-C3D	9.06	1.46	1.34
29	AI	304	PEB	C2D-C3D	9.06	1.46	1.34
29	AM	302	PEB	C2D-C3D	9.06	1.46	1.34
29	QM	204	PEB	C2D-C3D	9.06	1.46	1.34
29	iF	202	PEB	C2D-C3D	9.06	1.46	1.34
29	iI	202	PEB	C2D-C3D	9.06	1.46	1.34
29	sJ	201	PEB	C2D-C3D	9.06	1.46	1.34
29	sL	201	PEB	C2D-C3D	9.06	1.46	1.34
29	hB	201	PEB	C2D-C3D	9.06	1.46	1.34
29	hM	201	PEB	C2D-C3D	9.06	1.46	1.34
29	M2	201	PEB	C2D-C3D	9.06	1.46	1.34
29	U1	202	PEB	C2D-C3D	9.06	1.46	1.34
29	UF	201	PEB	C2D-C3D	9.06	1.46	1.34
29	UI	201	PEB	C2D-C3D	9.06	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	UK	202	PEB	C2D-C3D	9.06	1.46	1.34
29	OJ	201	PEB	C2D-C3D	9.06	1.46	1.34
29	WJ	202	PEB	C2D-C3D	9.06	1.46	1.34
29	YJ	201	PEB	C2D-C3D	9.06	1.46	1.34
29	gJ	201	PEB	C2D-C3D	9.06	1.46	1.34
29	OL	201	PEB	C2D-C3D	9.06	1.46	1.34
29	WL	202	PEB	C2D-C3D	9.06	1.46	1.34
29	YL	201	PEB	C2D-C3D	9.06	1.46	1.34
29	gL	201	PEB	C2D-C3D	9.06	1.46	1.34
29	jB	202	PEB	C2D-C3D	9.06	1.46	1.34
29	jM	202	PEB	C2D-C3D	9.06	1.46	1.34
29	hB	202	PEB	C2D-C3D	9.06	1.46	1.34
29	hM	202	PEB	C2D-C3D	9.06	1.46	1.34
29	GB	201	PEB	C2D-C3D	9.06	1.46	1.34
29	QJ	201	PEB	C2D-C3D	9.06	1.46	1.34
29	QL	201	PEB	C2D-C3D	9.06	1.46	1.34
29	GM	201	PEB	C2D-C3D	9.06	1.46	1.34
29	dF	201	PEB	C2D-C3D	9.05	1.46	1.34
29	dI	201	PEB	C2D-C3D	9.05	1.46	1.34
29	xJ	302	PEB	C2D-C3D	9.05	1.46	1.34
29	wJ	302	PEB	C2D-C3D	9.05	1.46	1.34
29	aB	201	PEB	C2D-C3D	9.05	1.46	1.34
29	KJ	201	PEB	C2D-C3D	9.05	1.46	1.34
29	KL	201	PEB	C2D-C3D	9.05	1.46	1.34
29	aM	201	PEB	C2D-C3D	9.05	1.46	1.34
29	xL	302	PEB	C2D-C3D	9.05	1.46	1.34
29	BG	201	PEB	C2D-C3D	9.05	1.46	1.34
29	eJ	201	PEB	C2D-C3D	9.05	1.46	1.34
29	eL	201	PEB	C2D-C3D	9.05	1.46	1.34
29	BQ	201	PEB	C2D-C3D	9.05	1.46	1.34
29	O1	201	PEB	C2D-C3D	9.05	1.46	1.34
29	OK	201	PEB	C2D-C3D	9.05	1.46	1.34
29	fB	202	PEB	C2D-C3D	9.05	1.46	1.34
29	fM	202	PEB	C2D-C3D	9.05	1.46	1.34
29	DG	201	PEB	C2D-C3D	9.04	1.46	1.34
29	DQ	201	PEB	C2D-C3D	9.04	1.46	1.34
29	L8	203	PEB	C2D-C3D	9.04	1.46	1.34
29	kJ	201	PEB	C2D-C3D	9.04	1.46	1.34
29	kL	201	PEB	C2D-C3D	9.04	1.46	1.34
29	S1	201	PEB	C2D-C3D	9.04	1.46	1.34
29	SK	201	PEB	C2D-C3D	9.04	1.46	1.34
29	VF	202	PEB	C2D-C3D	9.04	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	eF	202	PEB	C2D-C3D	9.04	1.46	1.34
29	VI	202	PEB	C2D-C3D	9.04	1.46	1.34
29	eI	202	PEB	C2D-C3D	9.04	1.46	1.34
29	KB	202	PEB	C2D-C3D	9.04	1.46	1.34
29	KM	202	PEB	C2D-C3D	9.04	1.46	1.34
29	WR	201	PEB	C2D-C3D	9.04	1.46	1.34
29	uJ	202	PEB	C2D-C3D	9.04	1.46	1.34
29	uL	202	PEB	C2D-C3D	9.04	1.46	1.34
29	B5	201	PEB	C2D-C3D	9.04	1.46	1.34
29	IJ	201	PEB	C2D-C3D	9.04	1.46	1.34
29	UJ	201	PEB	C2D-C3D	9.04	1.46	1.34
29	IL	201	PEB	C2D-C3D	9.04	1.46	1.34
29	UL	201	PEB	C2D-C3D	9.04	1.46	1.34
29	CB	201	PEB	C2D-C3D	9.04	1.46	1.34
29	CM	201	PEB	C2D-C3D	9.04	1.46	1.34
29	yJ	301	PEB	C2D-C3D	9.04	1.46	1.34
29	yL	301	PEB	C2D-C3D	9.04	1.46	1.34
29	MR	201	PEB	C2D-C3D	9.04	1.46	1.34
29	AB	302	PEB	C2D-C3D	9.04	1.46	1.34
29	SJ	201	PEB	C2D-C3D	9.04	1.46	1.34
29	SL	201	PEB	C2D-C3D	9.04	1.46	1.34
29	U2	202	PEB	C2D-C3D	9.04	1.46	1.34
29	dB	202	PEB	C2D-C3D	9.04	1.46	1.34
29	dM	202	PEB	C2D-C3D	9.04	1.46	1.34
29	WB	201	PEB	C2D-C3D	9.03	1.46	1.34
29	WM	201	PEB	C2D-C3D	9.03	1.46	1.34
29	SB	201	PEB	C2D-C3D	9.03	1.46	1.34
29	SM	201	PEB	C2D-C3D	9.03	1.46	1.34
29	QB	203	PEB	C2D-C3D	9.03	1.46	1.34
29	QM	203	PEB	C2D-C3D	9.03	1.46	1.34
29	wL	302	PEB	C2D-C3D	9.03	1.46	1.34
29	N3	203	PEB	C2D-C3D	9.02	1.46	1.34
29	oJ	201	PEB	C2D-C3D	9.02	1.46	1.34
29	oL	201	PEB	C2D-C3D	9.02	1.46	1.34
29	MA	405	PEB	C2D-C3D	9.02	1.46	1.34
29	B8	201	PEB	C2D-C3D	9.02	1.46	1.34
29	YB	202	PEB	C2D-C3D	9.02	1.46	1.34
29	YM	202	PEB	C2D-C3D	9.02	1.46	1.34
29	UR	201	PEB	C2D-C3D	9.02	1.46	1.34
29	Q2	201	PEB	C2D-C3D	9.01	1.46	1.34
29	UB	201	PEB	C2D-C3D	9.01	1.46	1.34
29	UM	201	PEB	C2D-C3D	9.01	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MJ	201	PEB	C2D-C3D	9.01	1.46	1.34
29	ML	201	PEB	C2D-C3D	9.01	1.46	1.34
29	J9	1002	PEB	C2D-C3D	9.01	1.46	1.34
29	lB	202	PEB	C2D-C3D	9.01	1.46	1.34
29	lM	202	PEB	C2D-C3D	9.01	1.46	1.34
29	W2	201	PEB	C2D-C3D	9.01	1.46	1.34
29	IB	201	PEB	C2D-C3D	9.01	1.46	1.34
29	IM	201	PEB	C2D-C3D	9.01	1.46	1.34
29	MB	201	PEB	C2D-C3D	9.00	1.46	1.34
29	MM	201	PEB	C2D-C3D	9.00	1.46	1.34
29	jB	201	PEB	C2D-C3D	9.00	1.46	1.34
29	jM	201	PEB	C2D-C3D	9.00	1.46	1.34
29	lB	201	PEB	C2D-C3D	9.00	1.46	1.34
29	lM	201	PEB	C2D-C3D	9.00	1.46	1.34
29	qJ	201	PEB	C2D-C3D	9.00	1.46	1.34
29	qL	201	PEB	C2D-C3D	9.00	1.46	1.34
29	iJ	201	PEB	C2D-C3D	8.99	1.46	1.34
29	iL	201	PEB	C2D-C3D	8.99	1.46	1.34
29	QR	201	PEB	C2D-C3D	8.99	1.46	1.34
29	SB	202	PEB	C2D-C3D	8.99	1.46	1.34
29	SM	202	PEB	C2D-C3D	8.99	1.46	1.34
29	aJ	201	PEB	C2D-C3D	8.99	1.46	1.34
29	aL	201	PEB	C2D-C3D	8.99	1.46	1.34
29	A1	302	PEB	C2D-C3D	8.99	1.46	1.34
29	AK	302	PEB	C2D-C3D	8.99	1.46	1.34
29	M3	203	PEB	C2D-C3D	8.99	1.46	1.34
29	MO	203	PEB	C2D-C3D	8.99	1.46	1.34
29	KB	201	PEB	C2D-C3D	8.98	1.46	1.34
29	KM	201	PEB	C2D-C3D	8.98	1.46	1.34
29	D7	1002	PEB	C2D-C3D	8.97	1.46	1.34
29	D9	1002	PEB	C2D-C3D	8.97	1.46	1.34
29	NO	203	PEB	C2D-C3D	8.97	1.46	1.34
29	dB	201	PEB	C2D-C3D	8.97	1.46	1.34
29	dM	201	PEB	C2D-C3D	8.97	1.46	1.34
29	L7	1002	PEB	C2D-C3D	8.97	1.46	1.34
29	EB	201	PEB	C2D-C3D	8.97	1.46	1.34
29	EM	201	PEB	C2D-C3D	8.97	1.46	1.34
29	O2	201	PEB	C2D-C3D	8.96	1.46	1.34
29	OR	201	PEB	C2D-C3D	8.96	1.46	1.34
29	L9	1002	PEB	C2D-C3D	8.96	1.46	1.34
29	J7	1002	PEB	C2D-C3D	8.96	1.46	1.34
29	MN	405	PEB	C2D-C3D	8.95	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	N1	1002	PEB	C2D-C3D	8.95	1.46	1.34
29	N7	1002	PEB	C2D-C3D	8.95	1.46	1.34
29	N9	1002	PEB	C2D-C3D	8.95	1.46	1.34
29	U2	201	PEB	C2D-C3D	8.95	1.46	1.34
29	J1	1002	PEB	C2D-C3D	8.94	1.46	1.34
29	JK	1002	PEB	C2D-C3D	8.94	1.46	1.34
29	GA	201	PEB	C2D-C3D	8.94	1.46	1.34
29	GN	201	PEB	C2D-C3D	8.94	1.46	1.34
29	xJ	303	PEB	C2D-C3D	8.94	1.46	1.34
29	NK	1002	PEB	C2D-C3D	8.94	1.46	1.34
29	wL	303	PEB	C2D-C3D	8.93	1.46	1.34
29	HK	1002	PEB	C2D-C3D	8.93	1.46	1.34
29	H1	1002	PEB	C2D-C3D	8.92	1.46	1.34
29	CA	201	PEB	C2D-C3D	8.91	1.46	1.34
29	CN	201	PEB	C2D-C3D	8.91	1.46	1.34
29	KA	201	PEB	C2D-C3D	8.91	1.46	1.34
29	KN	201	PEB	C2D-C3D	8.91	1.46	1.34
29	xL	303	PEB	C2D-C3D	8.91	1.46	1.34
29	AA	201	PEB	C2D-C3D	8.90	1.46	1.34
29	AN	201	PEB	C2D-C3D	8.90	1.46	1.34
29	L1	1002	PEB	C2D-C3D	8.90	1.46	1.34
29	LK	1002	PEB	C2D-C3D	8.90	1.46	1.34
29	wJ	303	PEB	C2D-C3D	8.90	1.46	1.34
29	AM	303	PEB	C2D-C3D	8.89	1.46	1.34
29	N2	202	PEB	C2D-C3D	8.89	1.46	1.34
29	P2	201	PEB	C2D-C3D	8.88	1.46	1.34
29	X2	201	PEB	C2D-C3D	8.88	1.46	1.34
29	XR	202	PEB	C2D-C3D	8.88	1.46	1.34
29	F1	1002	PEB	C2D-C3D	8.88	1.46	1.34
29	FK	1002	PEB	C2D-C3D	8.88	1.46	1.34
29	PR	201	PEB	C2D-C3D	8.88	1.46	1.34
29	F7	1002	PEB	C2D-C3D	8.88	1.46	1.34
29	H7	1002	PEB	C2D-C3D	8.87	1.45	1.34
29	H9	1002	PEB	C2D-C3D	8.87	1.45	1.34
29	F9	1002	PEB	C2D-C3D	8.87	1.45	1.34
29	AB	303	PEB	C2D-C3D	8.86	1.45	1.34
29	DK	1002	PEB	C2D-C3D	8.86	1.45	1.34
29	NR	202	PEB	C2D-C3D	8.86	1.45	1.34
29	IA	201	PEB	C2D-C3D	8.85	1.45	1.34
29	IN	201	PEB	C2D-C3D	8.85	1.45	1.34
29	EA	201	PEB	C2D-C3D	8.85	1.45	1.34
29	EN	201	PEB	C2D-C3D	8.85	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	1002	PEB	C2D-C3D	8.84	1.45	1.34
29	J5	202	PEB	C2D-C3D	8.84	1.45	1.34
29	J8	202	PEB	C2D-C3D	8.84	1.45	1.34
29	R2	202	PEB	C2D-C3D	8.84	1.45	1.34
29	VR	202	PEB	C2D-C3D	8.84	1.45	1.34
29	a7	202	PEB	C2D-C3D	8.82	1.45	1.34
29	a9	202	PEB	C2D-C3D	8.82	1.45	1.34
29	ZF	201	PEB	C2D-C3D	8.82	1.45	1.34
29	ZI	201	PEB	C2D-C3D	8.82	1.45	1.34
29	UF	202	PEB	C2D-C3D	8.81	1.45	1.34
29	UI	202	PEB	C2D-C3D	8.81	1.45	1.34
29	T2	202	PEB	C2D-C3D	8.80	1.45	1.34
29	TR	202	PEB	C2D-C3D	8.80	1.45	1.34
29	AF	301	PEB	C2D-C3D	8.80	1.45	1.34
29	AI	301	PEB	C2D-C3D	8.80	1.45	1.34
29	g7	202	PEB	C2D-C3D	8.79	1.45	1.34
29	g9	202	PEB	C2D-C3D	8.79	1.45	1.34
29	T7	202	PEB	C2D-C3D	8.79	1.45	1.34
29	T9	202	PEB	C2D-C3D	8.79	1.45	1.34
29	SF	201	PEB	C2D-C3D	8.79	1.45	1.34
29	SI	201	PEB	C2D-C3D	8.79	1.45	1.34
29	c7	202	PEB	C2D-C3D	8.78	1.45	1.34
29	c9	202	PEB	C2D-C3D	8.78	1.45	1.34
29	hF	201	PEB	C2D-C3D	8.78	1.45	1.34
29	hI	201	PEB	C2D-C3D	8.78	1.45	1.34
29	V2	202	PEB	C2D-C3D	8.78	1.45	1.34
29	e7	202	PEB	C2D-C3D	8.78	1.45	1.34
29	e9	202	PEB	C2D-C3D	8.78	1.45	1.34
29	WF	201	PEB	C2D-C3D	8.77	1.45	1.34
29	WI	201	PEB	C2D-C3D	8.77	1.45	1.34
29	H4	201	PEB	C2D-C3D	8.77	1.45	1.34
29	MN	404	PEB	C2D-C3D	8.77	1.45	1.34
29	R7	202	PEB	C2D-C3D	8.77	1.45	1.34
29	R9	202	PEB	C2D-C3D	8.77	1.45	1.34
29	MA	404	PEB	C2D-C3D	8.77	1.45	1.34
29	fF	201	PEB	C2D-C3D	8.77	1.45	1.34
29	fI	201	PEB	C2D-C3D	8.77	1.45	1.34
29	Y7	202	PEB	C2D-C3D	8.76	1.45	1.34
29	Y9	202	PEB	C2D-C3D	8.76	1.45	1.34
29	bF	201	PEB	C2D-C3D	8.76	1.45	1.34
29	bI	201	PEB	C2D-C3D	8.76	1.45	1.34
29	P7	202	PEB	C2D-C3D	8.76	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	P9	202	PEB	C2D-C3D	8.76	1.45	1.34
29	OF	201	PEB	C2D-C3D	8.76	1.45	1.34
29	OI	201	PEB	C2D-C3D	8.76	1.45	1.34
29	HD	201	PEB	C2D-C3D	8.76	1.45	1.34
29	B4	201	PEB	C2D-C3D	8.75	1.45	1.34
29	RR	202	PEB	C2D-C3D	8.75	1.45	1.34
29	k7	202	PEB	C2D-C3D	8.75	1.45	1.34
29	k9	202	PEB	C2D-C3D	8.75	1.45	1.34
29	i7	202	PEB	C2D-C3D	8.74	1.45	1.34
29	i9	202	PEB	C2D-C3D	8.74	1.45	1.34
29	BD	201	PEB	C2D-C3D	8.74	1.45	1.34
29	V7	202	PEB	C2D-C3D	8.73	1.45	1.34
29	V9	202	PEB	C2D-C3D	8.73	1.45	1.34
29	a1	201	PEB	C2D-C3D	8.73	1.45	1.34
29	aK	201	PEB	C2D-C3D	8.73	1.45	1.34
29	lF	201	PEB	C2D-C3D	8.73	1.45	1.34
29	lI	201	PEB	C2D-C3D	8.73	1.45	1.34
29	F4	201	PEB	C2D-C3D	8.73	1.45	1.34
29	FD	201	PEB	C2D-C3D	8.73	1.45	1.34
29	jF	201	PEB	C2D-C3D	8.73	1.45	1.34
29	jI	201	PEB	C2D-C3D	8.73	1.45	1.34
29	QF	201	PEB	C2D-C3D	8.72	1.45	1.34
29	QI	201	PEB	C2D-C3D	8.72	1.45	1.34
29	m7	202	PEB	C2D-C3D	8.72	1.45	1.34
29	m9	202	PEB	C2D-C3D	8.72	1.45	1.34
29	dF	202	PEB	C2D-C3D	8.72	1.45	1.34
29	dI	202	PEB	C2D-C3D	8.72	1.45	1.34
29	J4	201	PEB	C2D-C3D	8.72	1.45	1.34
29	L4	201	PEB	C2D-C3D	8.71	1.45	1.34
29	LD	201	PEB	C2D-C3D	8.71	1.45	1.34
29	i1	201	PEB	C2D-C3D	8.69	1.45	1.34
29	iK	201	PEB	C2D-C3D	8.69	1.45	1.34
29	g1	201	PEB	C2D-C3D	8.69	1.45	1.34
29	gK	201	PEB	C2D-C3D	8.69	1.45	1.34
29	V1	201	PEB	C2D-C3D	8.69	1.45	1.34
29	VK	201	PEB	C2D-C3D	8.69	1.45	1.34
29	JD	201	PEB	C2D-C3D	8.68	1.45	1.34
29	e1	201	PEB	C2D-C3D	8.67	1.45	1.34
29	eK	201	PEB	C2D-C3D	8.67	1.45	1.34
29	D4	201	PEB	C2D-C3D	8.66	1.45	1.34
29	DD	201	PEB	C2D-C3D	8.66	1.45	1.34
29	m1	201	PEB	C2D-C3D	8.65	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mK	201	PEB	C2D-C3D	8.65	1.45	1.34
29	T1	201	PEB	C2D-C3D	8.64	1.45	1.34
29	TK	201	PEB	C2D-C3D	8.64	1.45	1.34
29	P1	201	PEB	C2D-C3D	8.64	1.45	1.34
29	PK	201	PEB	C2D-C3D	8.64	1.45	1.34
29	A1	303	PEB	C2D-C3D	8.63	1.45	1.34
29	AK	303	PEB	C2D-C3D	8.63	1.45	1.34
29	k1	201	PEB	C2D-C3D	8.62	1.45	1.34
29	kK	201	PEB	C2D-C3D	8.62	1.45	1.34
29	Y1	201	PEB	C2D-C3D	8.62	1.45	1.34
29	YK	201	PEB	C2D-C3D	8.62	1.45	1.34
29	R1	201	PEB	C2D-C3D	8.61	1.45	1.34
29	RK	201	PEB	C2D-C3D	8.61	1.45	1.34
29	J5	201	PEB	C2D-C3D	8.61	1.45	1.34
29	J8	201	PEB	C2D-C3D	8.61	1.45	1.34
29	c1	201	PEB	C2D-C3D	8.61	1.45	1.34
29	cK	201	PEB	C2D-C3D	8.61	1.45	1.34
29	IG	202	PEB	C2D-C3D	8.61	1.45	1.34
29	IQ	202	PEB	C2D-C3D	8.61	1.45	1.34
29	GG	202	PEB	C2D-C3D	8.60	1.45	1.34
29	GQ	202	PEB	C2D-C3D	8.60	1.45	1.34
29	KG	202	PEB	C2D-C3D	8.56	1.45	1.34
29	KQ	202	PEB	C2D-C3D	8.56	1.45	1.34
29	EG	202	PEB	C2D-C3D	8.53	1.45	1.34
29	EQ	202	PEB	C2D-C3D	8.53	1.45	1.34
29	CG	202	PEB	C2D-C3D	8.53	1.45	1.34
29	CQ	202	PEB	C2D-C3D	8.53	1.45	1.34
29	AG	202	PEB	C2D-C3D	8.52	1.45	1.34
29	AQ	202	PEB	C2D-C3D	8.52	1.45	1.34
29	MG	401	PEB	C2D-C3D	8.51	1.45	1.34
29	G4	201	PEB	C2D-C3D	8.46	1.45	1.34
29	GD	201	PEB	C2D-C3D	8.46	1.45	1.34
29	dD	401	PEB	C2D-C3D	8.44	1.45	1.34
29	MQ	403	PEB	C2D-C3D	8.44	1.45	1.34
29	E4	201	PEB	C2D-C3D	8.41	1.45	1.34
29	MD	201	PEB	C2D-C3D	8.41	1.45	1.34
29	I4	201	PEB	C2D-C3D	8.39	1.45	1.34
29	CD	201	PEB	C2D-C3D	8.38	1.45	1.34
29	ID	201	PEB	C2D-C3D	8.37	1.45	1.34
29	K4	201	PEB	C2D-C3D	8.37	1.45	1.34
29	KD	201	PEB	C2D-C3D	8.37	1.45	1.34
29	C4	201	PEB	C2D-C3D	8.36	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	M4	201	PEB	C2D-C3D	8.35	1.45	1.34
29	GD	202	PEB	C2D-C3D	8.33	1.45	1.34
29	ED	201	PEB	C2D-C3D	8.31	1.45	1.34
29	K4	202	PEB	C2D-C3D	8.30	1.45	1.34
29	M4	202	PEB	C2D-C3D	8.28	1.45	1.34
29	CD	202	PEB	C2D-C3D	8.28	1.45	1.34
29	C4	202	PEB	C2D-C3D	8.28	1.45	1.34
29	ID	202	PEB	C2D-C3D	8.26	1.45	1.34
29	G4	202	PEB	C2D-C3D	8.24	1.45	1.34
29	KD	202	PEB	C2D-C3D	8.24	1.45	1.34
29	E4	202	PEB	C2D-C3D	8.23	1.45	1.34
29	MD	202	PEB	C2D-C3D	8.23	1.45	1.34
29	I4	202	PEB	C2D-C3D	8.23	1.45	1.34
29	NF	1002	PEB	C2D-C3D	8.22	1.45	1.34
29	NI	1002	PEB	C2D-C3D	8.22	1.45	1.34
29	DF	1002	PEB	C2D-C3D	8.21	1.45	1.34
29	DI	1002	PEB	C2D-C3D	8.21	1.45	1.34
29	JF	1002	PEB	C2D-C3D	8.19	1.45	1.34
29	JI	1002	PEB	C2D-C3D	8.19	1.45	1.34
29	LF	1002	PEB	C2D-C3D	8.18	1.45	1.34
29	LI	1002	PEB	C2D-C3D	8.18	1.45	1.34
29	HF	1002	PEB	C2D-C3D	8.18	1.45	1.34
29	HI	1002	PEB	C2D-C3D	8.18	1.45	1.34
29	FF	1002	PEB	C2D-C3D	8.12	1.45	1.34
29	FI	1002	PEB	C2D-C3D	8.12	1.45	1.34
29	ZJ	202	PEB	C2D-C3D	7.83	1.44	1.34
29	ZL	202	PEB	C2D-C3D	7.83	1.44	1.34
29	RJ	202	PEB	C2D-C3D	7.83	1.44	1.34
29	RL	202	PEB	C2D-C3D	7.83	1.44	1.34
29	IJ	203	PEB	C2D-C3D	7.82	1.44	1.34
29	IL	203	PEB	C2D-C3D	7.82	1.44	1.34
29	dJ	202	PEB	C2D-C3D	7.82	1.44	1.34
29	dL	202	PEB	C2D-C3D	7.82	1.44	1.34
29	HJ	201	PEB	C2D-C3D	7.82	1.44	1.34
29	TJ	202	PEB	C2D-C3D	7.82	1.44	1.34
29	HL	201	PEB	C2D-C3D	7.82	1.44	1.34
29	TL	202	PEB	C2D-C3D	7.82	1.44	1.34
29	XJ	202	PEB	C2D-C3D	7.82	1.44	1.34
29	XL	202	PEB	C2D-C3D	7.82	1.44	1.34
29	hJ	202	PEB	C2D-C3D	7.81	1.44	1.34
29	nJ	202	PEB	C2D-C3D	7.81	1.44	1.34
29	hL	202	PEB	C2D-C3D	7.81	1.44	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nL	202	PEB	C2D-C3D	7.81	1.44	1.34
29	lJ	202	PEB	C2D-C3D	7.81	1.44	1.34
29	lL	202	PEB	C2D-C3D	7.81	1.44	1.34
29	WJ	201	PEB	C2D-C3D	7.80	1.44	1.34
29	WL	201	PEB	C2D-C3D	7.80	1.44	1.34
29	NJ	202	PEB	C2D-C3D	7.80	1.44	1.34
29	NL	202	PEB	C2D-C3D	7.80	1.44	1.34
29	PJ	202	PEB	C2D-C3D	7.80	1.44	1.34
29	fJ	202	PEB	C2D-C3D	7.80	1.44	1.34
29	PL	202	PEB	C2D-C3D	7.80	1.44	1.34
29	fL	202	PEB	C2D-C3D	7.80	1.44	1.34
29	jJ	202	PEB	C2D-C3D	7.79	1.44	1.34
29	jL	202	PEB	C2D-C3D	7.79	1.44	1.34
29	sJ	203	PEB	C2D-C3D	7.79	1.44	1.34
29	sL	203	PEB	C2D-C3D	7.79	1.44	1.34
29	bJ	202	PEB	C2D-C3D	7.78	1.44	1.34
29	bL	202	PEB	C2D-C3D	7.78	1.44	1.34
29	JJ	202	PEB	C2D-C3D	7.78	1.44	1.34
29	JL	202	PEB	C2D-C3D	7.78	1.44	1.34
29	pJ	202	PEB	C2D-C3D	7.78	1.44	1.34
29	pL	202	PEB	C2D-C3D	7.78	1.44	1.34
29	I3	203	PEB	C3C-C4C	7.77	1.54	1.42
29	IO	203	PEB	C3C-C4C	7.77	1.54	1.42
29	AJ	203	PEB	C2D-C3D	7.77	1.44	1.34
29	AL	203	PEB	C2D-C3D	7.77	1.44	1.34
29	F3	202	PEB	C3C-C4C	7.76	1.54	1.42
29	FO	202	PEB	C3C-C4C	7.76	1.54	1.42
29	FJ	202	PEB	C2D-C3D	7.76	1.44	1.34
29	FL	202	PEB	C2D-C3D	7.76	1.44	1.34
29	BJ	202	PEB	C2D-C3D	7.76	1.44	1.34
29	BL	202	PEB	C2D-C3D	7.76	1.44	1.34
29	uJ	201	PEB	C2D-C3D	7.75	1.44	1.34
29	uL	201	PEB	C2D-C3D	7.75	1.44	1.34
29	B3	202	PEB	C3C-C4C	7.75	1.54	1.42
29	H3	202	PEB	C3C-C4C	7.75	1.54	1.42
29	BO	202	PEB	C3C-C4C	7.75	1.54	1.42
29	HO	202	PEB	C3C-C4C	7.75	1.54	1.42
29	J3	202	PEB	C3C-C4C	7.74	1.54	1.42
29	JO	202	PEB	C3C-C4C	7.74	1.54	1.42
29	rJ	202	PEB	C2D-C3D	7.72	1.44	1.34
29	rL	202	PEB	C2D-C3D	7.72	1.44	1.34
30	MG	402	PUB	C3B-C2B	6.75	1.57	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	MQ	404	PUB	C3B-C2B	6.74	1.57	1.37
29	J5	202	PEB	C3C-C4C	6.53	1.52	1.42
29	J8	202	PEB	C3C-C4C	6.53	1.52	1.42
30	AF	302	PUB	C2B-C1B	6.44	1.52	1.42
30	AI	302	PUB	C2B-C1B	6.44	1.52	1.42
29	hJ	203	PEB	C3C-C4C	6.41	1.52	1.42
29	hL	203	PEB	C3C-C4C	6.41	1.52	1.42
29	HJ	202	PEB	C3C-C4C	6.41	1.52	1.42
29	HL	202	PEB	C3C-C4C	6.41	1.52	1.42
29	wJ	303	PEB	C3B-C2B	6.40	1.50	1.36
29	TJ	203	PEB	C3C-C4C	6.40	1.52	1.42
29	TL	203	PEB	C3C-C4C	6.40	1.52	1.42
29	lJ	203	PEB	C3C-C4C	6.40	1.52	1.42
29	lL	203	PEB	C3C-C4C	6.40	1.52	1.42
29	PJ	203	PEB	C3C-C4C	6.38	1.52	1.42
29	PL	203	PEB	C3C-C4C	6.38	1.52	1.42
29	wL	303	PEB	C3B-C2B	6.38	1.50	1.36
29	nJ	203	PEB	C3C-C4C	6.38	1.52	1.42
29	nL	203	PEB	C3C-C4C	6.38	1.52	1.42
29	pJ	203	PEB	C3C-C4C	6.38	1.52	1.42
29	pL	203	PEB	C3C-C4C	6.38	1.52	1.42
29	FJ	203	PEB	C3C-C4C	6.38	1.52	1.42
29	FL	203	PEB	C3C-C4C	6.38	1.52	1.42
30	MQ	404	PUB	C2B-C1B	6.38	1.52	1.42
29	fJ	203	PEB	C3C-C4C	6.36	1.52	1.42
29	fL	203	PEB	C3C-C4C	6.36	1.52	1.42
29	dJ	203	PEB	C3C-C4C	6.36	1.52	1.42
29	dL	203	PEB	C3C-C4C	6.36	1.52	1.42
29	XJ	203	PEB	C3C-C4C	6.36	1.52	1.42
29	XL	203	PEB	C3C-C4C	6.36	1.52	1.42
30	MG	402	PUB	C2B-C1B	6.35	1.52	1.42
29	bJ	203	PEB	C3C-C4C	6.35	1.52	1.42
29	bL	203	PEB	C3C-C4C	6.35	1.52	1.42
29	VJ	202	PEB	C3C-C4C	6.34	1.52	1.42
29	VL	202	PEB	C3C-C4C	6.34	1.52	1.42
29	ZJ	203	PEB	C3C-C4C	6.34	1.51	1.42
29	ZL	203	PEB	C3C-C4C	6.34	1.51	1.42
29	rJ	203	PEB	C3C-C4C	6.34	1.51	1.42
29	rL	203	PEB	C3C-C4C	6.34	1.51	1.42
29	DJ	202	PEB	C3C-C4C	6.33	1.51	1.42
29	DL	202	PEB	C3C-C4C	6.33	1.51	1.42
29	xL	303	PEB	C3B-C2B	6.33	1.50	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jJ	203	PEB	C3C-C4C	6.33	1.51	1.42
29	jL	203	PEB	C3C-C4C	6.33	1.51	1.42
29	LJ	202	PEB	C3C-C4C	6.33	1.51	1.42
29	LL	202	PEB	C3C-C4C	6.33	1.51	1.42
29	JJ	203	PEB	C3C-C4C	6.32	1.51	1.42
29	JL	203	PEB	C3C-C4C	6.32	1.51	1.42
29	RJ	203	PEB	C3C-C4C	6.32	1.51	1.42
29	RL	203	PEB	C3C-C4C	6.32	1.51	1.42
29	NJ	203	PEB	C3C-C4C	6.32	1.51	1.42
29	NL	203	PEB	C3C-C4C	6.32	1.51	1.42
29	BJ	203	PEB	C3C-C4C	6.32	1.51	1.42
29	BL	203	PEB	C3C-C4C	6.32	1.51	1.42
29	vJ	202	PEB	C3C-C4C	6.31	1.51	1.42
29	vL	202	PEB	C3C-C4C	6.31	1.51	1.42
29	NF	1002	PEB	C3C-C4C	6.31	1.51	1.42
29	NI	1002	PEB	C3C-C4C	6.31	1.51	1.42
29	tJ	202	PEB	C3C-C4C	6.30	1.51	1.42
29	tL	202	PEB	C3C-C4C	6.30	1.51	1.42
29	HF	1002	PEB	C3C-C4C	6.29	1.51	1.42
29	HI	1002	PEB	C3C-C4C	6.29	1.51	1.42
29	xJ	303	PEB	C3B-C2B	6.28	1.50	1.36
29	LF	1002	PEB	C3C-C4C	6.28	1.51	1.42
29	LI	1002	PEB	C3C-C4C	6.28	1.51	1.42
29	JF	1002	PEB	C3C-C4C	6.26	1.51	1.42
29	JI	1002	PEB	C3C-C4C	6.26	1.51	1.42
29	FF	1002	PEB	C3C-C4C	6.25	1.51	1.42
29	FI	1002	PEB	C3C-C4C	6.25	1.51	1.42
29	DF	1002	PEB	C3C-C4C	6.23	1.51	1.42
29	DI	1002	PEB	C3C-C4C	6.23	1.51	1.42
29	J9	1002	PEB	C3C-C4C	6.17	1.51	1.42
29	L9	1002	PEB	C3C-C4C	6.14	1.51	1.42
29	J7	1002	PEB	C3C-C4C	6.13	1.51	1.42
29	L7	1002	PEB	C3C-C4C	6.12	1.51	1.42
29	H7	1002	PEB	C3C-C4C	6.11	1.51	1.42
29	H9	1002	PEB	C3C-C4C	6.11	1.51	1.42
29	F9	1002	PEB	C3C-C4C	6.11	1.51	1.42
29	N7	1002	PEB	C3C-C4C	6.11	1.51	1.42
29	N9	1002	PEB	C3C-C4C	6.11	1.51	1.42
29	D7	1002	PEB	C3C-C4C	6.10	1.51	1.42
29	D9	1002	PEB	C3C-C4C	6.10	1.51	1.42
29	F7	1002	PEB	C3C-C4C	6.08	1.51	1.42
29	Q2	202	PEB	C3B-C2B	6.06	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	S2	202	PEB	C3B-C2B	6.04	1.49	1.36
29	M2	202	PEB	C3B-C2B	6.03	1.49	1.36
29	g7	202	PEB	C3C-C4C	6.03	1.51	1.42
29	g9	202	PEB	C3C-C4C	6.03	1.51	1.42
29	R7	202	PEB	C3C-C4C	6.02	1.51	1.42
29	R9	202	PEB	C3C-C4C	6.02	1.51	1.42
29	UR	202	PEB	C3B-C2B	6.01	1.49	1.36
29	SR	202	PEB	C3B-C2B	6.01	1.49	1.36
29	O2	202	PEB	C3B-C2B	6.00	1.49	1.36
29	QR	202	PEB	C3B-C2B	6.00	1.49	1.36
29	W2	202	PEB	C3B-C2B	6.00	1.49	1.36
29	m7	202	PEB	C3C-C4C	5.99	1.51	1.42
29	m9	202	PEB	C3C-C4C	5.99	1.51	1.42
29	NO	203	PEB	C3C-C4C	5.99	1.51	1.42
29	N3	203	PEB	C3C-C4C	5.99	1.51	1.42
29	i7	202	PEB	C3C-C4C	5.99	1.51	1.42
29	i9	202	PEB	C3C-C4C	5.99	1.51	1.42
29	Y7	202	PEB	C3C-C4C	5.99	1.51	1.42
29	Y9	202	PEB	C3C-C4C	5.99	1.51	1.42
29	T7	202	PEB	C3C-C4C	5.98	1.51	1.42
29	T9	202	PEB	C3C-C4C	5.98	1.51	1.42
29	U2	202	PEB	C3B-C2B	5.98	1.49	1.36
29	k7	202	PEB	C3C-C4C	5.98	1.51	1.42
29	k9	202	PEB	C3C-C4C	5.98	1.51	1.42
29	M3	203	PEB	C3C-C4C	5.97	1.51	1.42
29	MO	203	PEB	C3C-C4C	5.97	1.51	1.42
29	V7	202	PEB	C3C-C4C	5.97	1.51	1.42
29	V9	202	PEB	C3C-C4C	5.97	1.51	1.42
29	a7	202	PEB	C3C-C4C	5.97	1.51	1.42
29	a9	202	PEB	C3C-C4C	5.97	1.51	1.42
29	WR	202	PEB	C3B-C2B	5.95	1.49	1.36
29	c7	202	PEB	C3C-C4C	5.95	1.51	1.42
29	c9	202	PEB	C3C-C4C	5.95	1.51	1.42
29	P7	202	PEB	C3C-C4C	5.94	1.51	1.42
29	P9	202	PEB	C3C-C4C	5.94	1.51	1.42
29	F5	203	PEB	C3C-C4C	5.91	1.51	1.42
29	F8	203	PEB	C3C-C4C	5.91	1.51	1.42
29	e7	202	PEB	C3C-C4C	5.91	1.51	1.42
29	e9	202	PEB	C3C-C4C	5.91	1.51	1.42
29	MN	401	PEB	C3C-C4C	5.90	1.51	1.42
29	L8	203	PEB	C3C-C4C	5.88	1.51	1.42
29	H5	203	PEB	C3C-C4C	5.87	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B8	203	PEB	C3C-C4C	5.87	1.51	1.42
29	e2	402	PEB	C3B-C2B	5.87	1.49	1.36
29	H8	203	PEB	C3C-C4C	5.86	1.51	1.42
29	B5	203	PEB	C3C-C4C	5.86	1.51	1.42
29	L5	203	PEB	C3C-C4C	5.86	1.51	1.42
29	G5	203	PEB	C3C-C4C	5.86	1.51	1.42
29	XR	201	PEB	C3B-C2B	5.85	1.49	1.36
29	T2	201	PEB	C3B-C2B	5.85	1.49	1.36
31	VP	1001	CYC	C2A-C3A	5.84	1.49	1.36
29	m7	203	PEB	C3B-C2B	5.84	1.49	1.36
29	m9	203	PEB	C3B-C2B	5.84	1.49	1.36
29	MA	401	PEB	C3C-C4C	5.83	1.51	1.42
29	g7	203	PEB	C3B-C2B	5.83	1.49	1.36
29	g9	203	PEB	C3B-C2B	5.83	1.49	1.36
31	xP	1001	CYC	C2A-C3A	5.83	1.49	1.36
29	TR	201	PEB	C3B-C2B	5.83	1.49	1.36
30	MA	403	PUB	C2B-C1B	5.82	1.51	1.42
29	VR	201	PEB	C3B-C2B	5.82	1.49	1.36
29	c7	203	PEB	C3B-C2B	5.82	1.49	1.36
29	c9	203	PEB	C3B-C2B	5.82	1.49	1.36
29	G8	203	PEB	C3C-C4C	5.81	1.51	1.42
29	R7	203	PEB	C3B-C2B	5.81	1.49	1.36
29	R9	203	PEB	C3B-C2B	5.81	1.49	1.36
29	N2	201	PEB	C3B-C2B	5.81	1.49	1.36
29	NR	201	PEB	C3B-C2B	5.81	1.49	1.36
29	a7	203	PEB	C3B-C2B	5.81	1.49	1.36
29	a9	203	PEB	C3B-C2B	5.81	1.49	1.36
31	L9	1001	CYC	C3B-C2B	5.81	1.49	1.36
29	e7	203	PEB	C3B-C2B	5.81	1.49	1.36
29	e9	203	PEB	C3B-C2B	5.81	1.49	1.36
31	N7	1001	CYC	C3B-C2B	5.81	1.49	1.36
31	N9	1001	CYC	C3B-C2B	5.81	1.49	1.36
29	R2	201	PEB	C3B-C2B	5.80	1.49	1.36
29	RR	201	PEB	C3B-C2B	5.80	1.49	1.36
29	k7	203	PEB	C3B-C2B	5.80	1.49	1.36
29	k9	203	PEB	C3B-C2B	5.80	1.49	1.36
30	MN	403	PUB	C2B-C1B	5.79	1.51	1.42
29	T7	203	PEB	C3B-C2B	5.79	1.49	1.36
29	T9	203	PEB	C3B-C2B	5.79	1.49	1.36
29	V2	201	PEB	C3B-C2B	5.79	1.49	1.36
31	J7	1001	CYC	C3B-C2B	5.79	1.49	1.36
29	Y7	203	PEB	C3B-C2B	5.79	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	i7	203	PEB	C3B-C2B	5.79	1.49	1.36
29	Y9	203	PEB	C3B-C2B	5.79	1.49	1.36
29	i9	203	PEB	C3B-C2B	5.79	1.49	1.36
31	DF	1001	CYC	C3B-C2B	5.79	1.49	1.36
31	DI	1001	CYC	C3B-C2B	5.79	1.49	1.36
29	V7	203	PEB	C3B-C2B	5.78	1.49	1.36
29	V9	203	PEB	C3B-C2B	5.78	1.49	1.36
31	L7	1001	CYC	C3B-C2B	5.77	1.49	1.36
29	P7	203	PEB	C3B-C2B	5.77	1.49	1.36
29	P9	203	PEB	C3B-C2B	5.77	1.49	1.36
31	FF	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	FI	1001	CYC	C3B-C2B	5.76	1.49	1.36
29	SR	201	PEB	C3B-C2B	5.76	1.49	1.36
31	NF	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	NI	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	F9	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	D7	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	D9	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	F7	1001	CYC	C3B-C2B	5.76	1.49	1.36
31	HF	1001	CYC	C3B-C2B	5.75	1.49	1.36
31	HI	1001	CYC	C3B-C2B	5.75	1.49	1.36
31	JF	1001	CYC	C3B-C2B	5.75	1.49	1.36
31	JI	1001	CYC	C3B-C2B	5.75	1.49	1.36
31	J9	1001	CYC	C3B-C2B	5.75	1.49	1.36
31	LF	1001	CYC	C3B-C2B	5.75	1.48	1.36
31	LI	1001	CYC	C3B-C2B	5.75	1.48	1.36
31	H7	1001	CYC	C3B-C2B	5.74	1.48	1.36
31	H9	1001	CYC	C3B-C2B	5.74	1.48	1.36
29	M4	203	PEB	C3B-C2B	5.74	1.48	1.36
29	AM	302	PEB	C3B-C2B	5.71	1.48	1.36
29	AB	302	PEB	C3B-C2B	5.71	1.48	1.36
29	J5	201	PEB	CHA-C1B	5.70	1.53	1.40
29	J8	201	PEB	CHA-C1B	5.70	1.53	1.40
29	I4	203	PEB	C3B-C2B	5.70	1.48	1.36
29	xJ	301	PEB	C3B-C2B	5.68	1.48	1.36
31	I1	1001	CYC	C3B-C2B	5.67	1.48	1.36
29	AC	202	PEB	C3B-C2B	5.67	1.48	1.36
29	AE	202	PEB	C3B-C2B	5.67	1.48	1.36
30	MA	403	PUB	C2C-C3C	5.67	1.48	1.36
31	E1	1001	CYC	C3B-C2B	5.66	1.48	1.36
29	wL	302	PEB	C3B-C2B	5.66	1.48	1.36
29	wJ	302	PEB	C3B-C2B	5.66	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	MN	403	PUB	C2C-C3C	5.66	1.48	1.36
29	xL	301	PEB	C3B-C2B	5.66	1.48	1.36
29	S2	201	PEB	C3B-C2B	5.66	1.48	1.36
29	IC	202	PEB	C3B-C2B	5.66	1.48	1.36
29	IE	202	PEB	C3B-C2B	5.66	1.48	1.36
29	xL	302	PEB	C3B-C2B	5.65	1.48	1.36
29	xJ	302	PEB	C3B-C2B	5.64	1.48	1.36
29	KC	203	PEB	C3B-C2B	5.64	1.48	1.36
29	KE	203	PEB	C3B-C2B	5.64	1.48	1.36
29	U1	201	PEB	C3C-C4C	5.63	1.50	1.42
29	UK	201	PEB	C3C-C4C	5.63	1.50	1.42
29	g1	202	PEB	C3C-C4C	5.63	1.50	1.42
29	gK	202	PEB	C3C-C4C	5.63	1.50	1.42
29	BG	203	PEB	C3B-C2B	5.63	1.48	1.36
29	wJ	301	PEB	C3B-C2B	5.63	1.48	1.36
31	IK	1001	CYC	C3B-C2B	5.62	1.48	1.36
29	e1	202	PEB	C3C-C4C	5.62	1.50	1.42
29	eK	202	PEB	C3C-C4C	5.62	1.50	1.42
29	P1	202	PEB	C3C-C4C	5.62	1.50	1.42
29	PK	202	PEB	C3C-C4C	5.62	1.50	1.42
29	c1	202	PEB	C3C-C4C	5.62	1.50	1.42
29	cK	202	PEB	C3C-C4C	5.62	1.50	1.42
29	LG	203	PEB	C3B-C2B	5.62	1.48	1.36
31	CK	1001	CYC	C3B-C2B	5.62	1.48	1.36
29	R1	202	PEB	C3C-C4C	5.62	1.50	1.42
29	RK	202	PEB	C3C-C4C	5.62	1.50	1.42
29	a1	202	PEB	C3C-C4C	5.62	1.50	1.42
29	aK	202	PEB	C3C-C4C	5.62	1.50	1.42
29	GC	202	PEB	C3B-C2B	5.61	1.48	1.36
29	GE	202	PEB	C3B-C2B	5.61	1.48	1.36
29	Z1	201	PEB	C3C-C4C	5.61	1.50	1.42
29	ZK	201	PEB	C3C-C4C	5.61	1.50	1.42
29	EC	202	PEB	C3B-C2B	5.61	1.48	1.36
29	EE	202	PEB	C3B-C2B	5.61	1.48	1.36
29	CC	202	PEB	C3B-C2B	5.61	1.48	1.36
29	CE	202	PEB	C3B-C2B	5.61	1.48	1.36
29	j1	203	PEB	C3C-C4C	5.60	1.50	1.42
29	jK	203	PEB	C3C-C4C	5.60	1.50	1.42
29	EB	202	PEB	C3B-C2B	5.60	1.48	1.36
29	EM	202	PEB	C3B-C2B	5.60	1.48	1.36
29	A1	302	PEB	C3B-C2B	5.60	1.48	1.36
29	AK	302	PEB	C3B-C2B	5.60	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	OB	202	PEB	C3B-C2B	5.60	1.48	1.36
29	OM	202	PEB	C3B-C2B	5.60	1.48	1.36
29	V1	202	PEB	C3C-C4C	5.60	1.50	1.42
29	VK	202	PEB	C3C-C4C	5.60	1.50	1.42
29	DG	203	PEB	C3B-C2B	5.60	1.48	1.36
29	i1	202	PEB	C3C-C4C	5.60	1.50	1.42
29	iK	202	PEB	C3C-C4C	5.60	1.50	1.42
29	SB	202	PEB	C3B-C2B	5.60	1.48	1.36
29	SM	202	PEB	C3B-C2B	5.60	1.48	1.36
29	k1	202	PEB	C3C-C4C	5.60	1.50	1.42
29	kK	202	PEB	C3C-C4C	5.60	1.50	1.42
29	QB	204	PEB	C3B-C2B	5.59	1.48	1.36
29	QM	204	PEB	C3B-C2B	5.59	1.48	1.36
29	NR	203	PEB	C3B-C2B	5.59	1.48	1.36
29	hB	202	PEB	C3B-C2B	5.59	1.48	1.36
29	hM	202	PEB	C3B-C2B	5.59	1.48	1.36
29	CB	202	PEB	C3B-C2B	5.59	1.48	1.36
29	CM	202	PEB	C3B-C2B	5.59	1.48	1.36
29	N2	203	PEB	C3B-C2B	5.59	1.48	1.36
29	BQ	203	PEB	C3B-C2B	5.59	1.48	1.36
29	wL	301	PEB	C3B-C2B	5.59	1.48	1.36
31	D1	1003	CYC	C3B-C2B	5.59	1.48	1.36
31	M1	1001	CYC	C3B-C2B	5.59	1.48	1.36
31	MK	1001	CYC	C3B-C2B	5.59	1.48	1.36
29	LQ	202	PEB	C3B-C2B	5.59	1.48	1.36
31	wP	1001	CYC	C2A-C3A	5.59	1.48	1.36
29	AM	301	PEB	C3B-C2B	5.59	1.48	1.36
31	EK	1001	CYC	C3B-C2B	5.59	1.48	1.36
31	C1	1001	CYC	C3B-C2B	5.59	1.48	1.36
29	GB	202	PEB	C3B-C2B	5.59	1.48	1.36
29	IB	202	PEB	C3B-C2B	5.59	1.48	1.36
29	GM	202	PEB	C3B-C2B	5.59	1.48	1.36
29	IM	202	PEB	C3B-C2B	5.59	1.48	1.36
31	GK	1001	CYC	C3B-C2B	5.59	1.48	1.36
29	WB	202	PEB	C3B-C2B	5.58	1.48	1.36
29	WM	202	PEB	C3B-C2B	5.58	1.48	1.36
29	DD	202	PEB	C3C-C4C	5.58	1.50	1.42
29	MB	202	PEB	C3B-C2B	5.58	1.48	1.36
29	MM	202	PEB	C3B-C2B	5.58	1.48	1.36
31	UP	1001	CYC	C2A-C3A	5.58	1.48	1.36
29	fB	202	PEB	C3B-C2B	5.58	1.48	1.36
29	fM	202	PEB	C3B-C2B	5.58	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	K1	1001	CYC	C3B-C2B	5.58	1.48	1.36
31	KK	1001	CYC	C3B-C2B	5.58	1.48	1.36
29	JQ	203	PEB	C3B-C2B	5.58	1.48	1.36
29	JG	203	PEB	C3B-C2B	5.58	1.48	1.36
29	X2	202	PEB	C3B-C2B	5.57	1.48	1.36
29	FC	202	PEB	C3B-C2B	5.57	1.48	1.36
29	FE	202	PEB	C3B-C2B	5.57	1.48	1.36
29	XR	203	PEB	C3B-C2B	5.57	1.48	1.36
29	MR	202	PEB	C3B-C2B	5.57	1.48	1.36
29	P2	202	PEB	C3B-C2B	5.57	1.48	1.36
29	UB	202	PEB	C3B-C2B	5.57	1.48	1.36
29	MQ	401	PEB	C3B-C2B	5.57	1.48	1.36
29	aB	202	PEB	C3B-C2B	5.57	1.48	1.36
29	jB	202	PEB	C3B-C2B	5.57	1.48	1.36
29	aM	202	PEB	C3B-C2B	5.57	1.48	1.36
29	jM	202	PEB	C3B-C2B	5.57	1.48	1.36
29	JQ	203	PEB	C3C-C4C	5.57	1.50	1.42
31	uP	1001	CYC	C2A-C3A	5.57	1.48	1.36
31	FP	1001	CYC	C2A-C3A	5.57	1.48	1.36
29	AB	301	PEB	C3B-C2B	5.57	1.48	1.36
29	PR	202	PEB	C3B-C2B	5.57	1.48	1.36
29	LD	202	PEB	C3C-C4C	5.56	1.50	1.42
31	MP	1001	CYC	C2A-C3A	5.56	1.48	1.36
29	YB	203	PEB	C3B-C2B	5.56	1.48	1.36
29	YM	203	PEB	C3B-C2B	5.56	1.48	1.36
29	HG	203	PEB	C3B-C2B	5.56	1.48	1.36
29	BC	203	PEB	C3C-C4C	5.56	1.50	1.42
29	BE	203	PEB	C3C-C4C	5.56	1.50	1.42
29	HQ	203	PEB	C3B-C2B	5.56	1.48	1.36
31	sP	1001	CYC	C2A-C3A	5.56	1.48	1.36
29	dB	202	PEB	C3B-C2B	5.56	1.48	1.36
29	dM	202	PEB	C3B-C2B	5.56	1.48	1.36
31	XP	1001	CYC	C2A-C3A	5.56	1.48	1.36
29	JD	202	PEB	C3C-C4C	5.55	1.50	1.42
29	KB	202	PEB	C3B-C2B	5.55	1.48	1.36
29	KM	202	PEB	C3B-C2B	5.55	1.48	1.36
29	FG	203	PEB	C3B-C2B	5.55	1.48	1.36
31	nP	1001	CYC	C2A-C3A	5.55	1.48	1.36
31	QP	1001	CYC	C2A-C3A	5.55	1.48	1.36
31	BP	1001	CYC	C2A-C3A	5.55	1.48	1.36
31	1P	1001	CYC	C2A-C3A	5.55	1.48	1.36
29	J4	202	PEB	C3C-C4C	5.55	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HC	202	PEB	C3B-C2B	5.55	1.48	1.36
29	HE	202	PEB	C3B-C2B	5.55	1.48	1.36
31	jP	1001	CYC	C2A-C3A	5.55	1.48	1.36
29	V2	203	PEB	C3B-C2B	5.54	1.48	1.36
29	VR	203	PEB	C3B-C2B	5.54	1.48	1.36
29	lB	202	PEB	C3B-C2B	5.54	1.48	1.36
29	lM	202	PEB	C3B-C2B	5.54	1.48	1.36
31	SP	1001	CYC	C2A-C3A	5.54	1.48	1.36
29	DQ	203	PEB	C3C-C4C	5.54	1.50	1.42
29	H4	202	PEB	C3C-C4C	5.54	1.50	1.42
29	OR	202	PEB	C3B-C2B	5.54	1.48	1.36
31	HP	1001	CYC	C2A-C3A	5.54	1.48	1.36
31	oP	1001	CYC	C2A-C3A	5.54	1.48	1.36
29	FQ	203	PEB	C3B-C2B	5.54	1.48	1.36
29	DQ	203	PEB	C3B-C2B	5.54	1.48	1.36
29	BQ	203	PEB	C3C-C4C	5.54	1.50	1.42
31	IP	1001	CYC	C2A-C3A	5.54	1.48	1.36
31	qP	1001	CYC	C2A-C3A	5.54	1.48	1.36
29	AB	303	PEB	C3B-C2B	5.54	1.48	1.36
31	kP	1001	CYC	C2A-C3A	5.54	1.48	1.36
31	DP	1001	CYC	C2A-C3A	5.54	1.48	1.36
29	DG	203	PEB	C3C-C4C	5.53	1.50	1.42
29	TR	203	PEB	C3B-C2B	5.53	1.48	1.36
30	yJ	303	PUB	C2C-C3C	5.53	1.48	1.36
31	fP	1001	CYC	C2A-C3A	5.53	1.48	1.36
29	LC	202	PEB	C3B-C2B	5.53	1.48	1.36
29	LE	202	PEB	C3B-C2B	5.53	1.48	1.36
31	OP	1001	CYC	C2A-C3A	5.53	1.48	1.36
29	lI	202	PEB	C3B-C2B	5.53	1.48	1.36
29	lK	202	PEB	C3B-C2B	5.53	1.48	1.36
29	LQ	202	PEB	C3C-C4C	5.52	1.50	1.42
29	D4	202	PEB	C3C-C4C	5.52	1.50	1.42
30	MG	402	PUB	CAB-C3B	5.52	1.60	1.52
29	W1	202	PEB	C3B-C2B	5.52	1.48	1.36
29	WK	202	PEB	C3B-C2B	5.52	1.48	1.36
29	BC	202	PEB	C3B-C2B	5.52	1.48	1.36
29	KC	201	PEB	C3B-C2B	5.52	1.48	1.36
29	BE	202	PEB	C3B-C2B	5.52	1.48	1.36
29	KE	201	PEB	C3B-C2B	5.52	1.48	1.36
29	HC	203	PEB	C3C-C4C	5.52	1.50	1.42
29	HE	203	PEB	C3C-C4C	5.52	1.50	1.42
31	WP	1001	CYC	CHB-C1B	5.52	1.51	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BG	203	PEB	C3C-C4C	5.52	1.50	1.42
29	R2	203	PEB	C3B-C2B	5.51	1.48	1.36
29	RR	203	PEB	C3B-C2B	5.51	1.48	1.36
31	hP	1001	CYC	C2A-C3A	5.51	1.48	1.36
29	AM	303	PEB	C3B-C2B	5.51	1.48	1.36
29	JG	203	PEB	C3C-C4C	5.51	1.50	1.42
29	E3	202	PEB	C3C-C4C	5.51	1.50	1.42
29	EO	202	PEB	C3C-C4C	5.51	1.50	1.42
31	yP	1001	CYC	CHB-C1B	5.51	1.51	1.38
29	A7	305	PEB	C3B-C2B	5.51	1.48	1.36
29	A9	305	PEB	C3B-C2B	5.51	1.48	1.36
29	AC	203	PEB	C3B-C2B	5.51	1.48	1.36
29	AE	203	PEB	C3B-C2B	5.51	1.48	1.36
29	LC	203	PEB	C3C-C4C	5.51	1.50	1.42
29	LE	203	PEB	C3C-C4C	5.51	1.50	1.42
30	MQ	405	PUB	C2B-C1B	5.51	1.50	1.42
29	FD	202	PEB	C3C-C4C	5.51	1.50	1.42
29	MA	401	PEB	C3B-C2B	5.50	1.48	1.36
29	T2	203	PEB	C3B-C2B	5.50	1.48	1.36
30	yL	303	PUB	C2C-C3C	5.50	1.48	1.36
29	B4	202	PEB	C3C-C4C	5.50	1.50	1.42
29	BD	202	PEB	C3C-C4C	5.50	1.50	1.42
29	FC	203	PEB	C3C-C4C	5.50	1.50	1.42
29	FE	203	PEB	C3C-C4C	5.50	1.50	1.42
29	HD	202	PEB	C3C-C4C	5.50	1.50	1.42
29	Q1	202	PEB	C3B-C2B	5.50	1.48	1.36
29	AF	301	PEB	C3B-C2B	5.50	1.48	1.36
29	AF	304	PEB	C3B-C2B	5.50	1.48	1.36
29	AI	301	PEB	C3B-C2B	5.50	1.48	1.36
29	AI	304	PEB	C3B-C2B	5.50	1.48	1.36
29	QK	202	PEB	C3B-C2B	5.50	1.48	1.36
29	sJ	203	PEB	C3B-C2B	5.50	1.48	1.36
29	sL	203	PEB	C3B-C2B	5.50	1.48	1.36
29	b1	202	PEB	C3B-C2B	5.50	1.48	1.36
29	MG	405	PEB	C3B-C2B	5.50	1.48	1.36
29	bK	202	PEB	C3B-C2B	5.50	1.48	1.36
31	YP	1000	CYC	CHB-C1B	5.50	1.51	1.38
29	IJ	203	PEB	C3B-C2B	5.49	1.48	1.36
29	IL	203	PEB	C3B-C2B	5.49	1.48	1.36
29	HG	203	PEB	C3C-C4C	5.49	1.50	1.42
30	MQ	404	PUB	CAB-C3B	5.49	1.60	1.52
29	U1	203	PEB	C3B-C2B	5.49	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	UK	203	PEB	C3B-C2B	5.49	1.48	1.36
29	RB	201	PEB	C3C-C4C	5.49	1.50	1.42
29	RM	201	PEB	C3C-C4C	5.49	1.50	1.42
29	j1	202	PEB	C3B-C2B	5.49	1.48	1.36
29	jK	202	PEB	C3B-C2B	5.49	1.48	1.36
29	MQ	407	PEB	C3B-C2B	5.49	1.48	1.36
29	DC	202	PEB	C3C-C4C	5.48	1.50	1.42
29	DE	202	PEB	C3C-C4C	5.48	1.50	1.42
29	PJ	202	PEB	C3B-C2B	5.48	1.48	1.36
29	PL	202	PEB	C3B-C2B	5.48	1.48	1.36
31	1P	1002	CYC	CHB-C1B	5.48	1.51	1.38
29	JC	202	PEB	C3C-C4C	5.48	1.50	1.42
29	JE	202	PEB	C3C-C4C	5.48	1.50	1.42
29	f1	202	PEB	C3B-C2B	5.48	1.48	1.36
29	fK	202	PEB	C3B-C2B	5.48	1.48	1.36
29	F4	202	PEB	C3C-C4C	5.48	1.50	1.42
29	mB	201	PEB	C3C-C4C	5.48	1.50	1.42
29	mM	201	PEB	C3C-C4C	5.48	1.50	1.42
29	AJ	203	PEB	C3B-C2B	5.48	1.48	1.36
29	AL	203	PEB	C3B-C2B	5.48	1.48	1.36
29	rJ	202	PEB	C3B-C2B	5.48	1.48	1.36
29	rL	202	PEB	C3B-C2B	5.48	1.48	1.36
29	HQ	203	PEB	C3C-C4C	5.48	1.50	1.42
29	lJ	202	PEB	C3B-C2B	5.48	1.48	1.36
29	lL	202	PEB	C3B-C2B	5.48	1.48	1.36
29	S1	202	PEB	C3B-C2B	5.48	1.48	1.36
29	SK	202	PEB	C3B-C2B	5.48	1.48	1.36
29	h1	202	PEB	C3B-C2B	5.48	1.48	1.36
29	hK	202	PEB	C3B-C2B	5.48	1.48	1.36
29	LG	203	PEB	C3C-C4C	5.47	1.50	1.42
29	O1	202	PEB	C3B-C2B	5.47	1.48	1.36
29	OK	202	PEB	C3B-C2B	5.47	1.48	1.36
29	FB	201	PEB	C3C-C4C	5.47	1.50	1.42
29	FM	201	PEB	C3C-C4C	5.47	1.50	1.42
29	FJ	202	PEB	C3B-C2B	5.47	1.48	1.36
29	FL	202	PEB	C3B-C2B	5.47	1.48	1.36
29	d1	202	PEB	C3B-C2B	5.47	1.48	1.36
29	dK	202	PEB	C3B-C2B	5.47	1.48	1.36
29	HB	201	PEB	C3C-C4C	5.47	1.50	1.42
29	HM	201	PEB	C3C-C4C	5.47	1.50	1.42
29	MN	401	PEB	C3B-C2B	5.47	1.48	1.36
29	G3	202	PEB	C3C-C4C	5.47	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GO	202	PEB	C3C-C4C	5.47	1.50	1.42
29	GD	203	PEB	C3C-C4C	5.47	1.50	1.42
29	TJ	202	PEB	C3B-C2B	5.47	1.48	1.36
29	TL	202	PEB	C3B-C2B	5.47	1.48	1.36
29	DB	201	PEB	C3C-C4C	5.47	1.50	1.42
29	DM	201	PEB	C3C-C4C	5.47	1.50	1.42
29	zL	501	PEB	C3B-C2B	5.47	1.48	1.36
29	VB	201	PEB	C3C-C4C	5.47	1.50	1.42
29	VM	201	PEB	C3C-C4C	5.47	1.50	1.42
29	FQ	203	PEB	C3C-C4C	5.47	1.50	1.42
29	hJ	202	PEB	C3B-C2B	5.47	1.48	1.36
29	hL	202	PEB	C3B-C2B	5.47	1.48	1.36
29	jJ	202	PEB	C3B-C2B	5.47	1.48	1.36
29	jL	202	PEB	C3B-C2B	5.47	1.48	1.36
29	L4	202	PEB	C3C-C4C	5.47	1.50	1.42
29	KD	203	PEB	C3C-C4C	5.47	1.50	1.42
29	iB	201	PEB	C3C-C4C	5.46	1.50	1.42
29	iM	201	PEB	C3C-C4C	5.46	1.50	1.42
29	Z1	203	PEB	C3B-C2B	5.46	1.48	1.36
29	BC	201	PEB	C3B-C2B	5.46	1.48	1.36
29	BE	201	PEB	C3B-C2B	5.46	1.48	1.36
29	ZK	203	PEB	C3B-C2B	5.46	1.48	1.36
31	yP	1001	CYC	C3B-C2B	5.46	1.48	1.36
29	MN	405	PEB	C3B-C2B	5.46	1.48	1.36
29	NO	202	PEB	C3B-C2B	5.46	1.48	1.36
29	JJ	202	PEB	C3B-C2B	5.46	1.48	1.36
29	JL	202	PEB	C3B-C2B	5.46	1.48	1.36
31	K9	1001	CYC	C3B-C2B	5.46	1.48	1.36
29	uJ	201	PEB	C3B-C2B	5.46	1.48	1.36
29	uL	201	PEB	C3B-C2B	5.46	1.48	1.36
29	BJ	202	PEB	C3B-C2B	5.46	1.48	1.36
29	BL	202	PEB	C3B-C2B	5.46	1.48	1.36
29	bJ	202	PEB	C3B-C2B	5.46	1.48	1.36
29	dJ	202	PEB	C3B-C2B	5.46	1.48	1.36
29	bL	202	PEB	C3B-C2B	5.46	1.48	1.36
29	dL	202	PEB	C3B-C2B	5.46	1.48	1.36
29	ZJ	202	PEB	C3B-C2B	5.46	1.48	1.36
29	ZL	202	PEB	C3B-C2B	5.46	1.48	1.36
29	HJ	201	PEB	C3B-C2B	5.46	1.48	1.36
29	HL	201	PEB	C3B-C2B	5.46	1.48	1.36
29	ZB	201	PEB	C3C-C4C	5.46	1.50	1.42
29	ZM	201	PEB	C3C-C4C	5.46	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	N3	202	PEB	C3B-C2B	5.46	1.48	1.36
29	I3	202	PEB	C3C-C4C	5.45	1.50	1.42
29	IO	202	PEB	C3C-C4C	5.45	1.50	1.42
29	fJ	202	PEB	C3B-C2B	5.45	1.48	1.36
29	fL	202	PEB	C3B-C2B	5.45	1.48	1.36
29	XJ	202	PEB	C3B-C2B	5.45	1.48	1.36
29	XL	202	PEB	C3B-C2B	5.45	1.48	1.36
29	pJ	202	PEB	C3B-C2B	5.45	1.48	1.36
29	pL	202	PEB	C3B-C2B	5.45	1.48	1.36
29	C3	202	PEB	C3C-C4C	5.45	1.50	1.42
29	CO	202	PEB	C3C-C4C	5.45	1.50	1.42
30	MG	403	PUB	C2B-C1B	5.45	1.50	1.42
31	E7	1001	CYC	C3B-C2B	5.45	1.48	1.36
31	E9	1001	CYC	C3B-C2B	5.45	1.48	1.36
29	MA	405	PEB	C3B-C2B	5.45	1.48	1.36
29	g1	203	PEB	C3C-C4C	5.45	1.50	1.42
29	cB	201	PEB	C3C-C4C	5.45	1.50	1.42
29	gK	203	PEB	C3C-C4C	5.45	1.50	1.42
29	cM	201	PEB	C3C-C4C	5.45	1.50	1.42
29	kB	201	PEB	C3C-C4C	5.44	1.50	1.42
29	kM	201	PEB	C3C-C4C	5.44	1.50	1.42
29	Y1	202	PEB	C3C-C4C	5.44	1.50	1.42
29	YK	202	PEB	C3C-C4C	5.44	1.50	1.42
29	TF	201	PEB	C3B-C2B	5.44	1.48	1.36
29	WJ	201	PEB	C3B-C2B	5.44	1.48	1.36
29	WL	201	PEB	C3B-C2B	5.44	1.48	1.36
29	S7	201	PEB	C3C-C4C	5.44	1.50	1.42
29	S9	201	PEB	C3C-C4C	5.44	1.50	1.42
31	I7	1001	CYC	C3B-C2B	5.44	1.48	1.36
31	I9	1001	CYC	C3B-C2B	5.44	1.48	1.36
29	E4	203	PEB	C3C-C4C	5.44	1.50	1.42
29	JB	201	PEB	C3C-C4C	5.44	1.50	1.42
29	JM	201	PEB	C3C-C4C	5.44	1.50	1.42
29	Q7	201	PEB	C3C-C4C	5.44	1.50	1.42
29	Q9	201	PEB	C3C-C4C	5.44	1.50	1.42
29	e1	203	PEB	C3C-C4C	5.44	1.50	1.42
29	eK	203	PEB	C3C-C4C	5.44	1.50	1.42
29	zJ	501	PEB	C3B-C2B	5.44	1.48	1.36
29	DC	201	PEB	C3B-C2B	5.44	1.48	1.36
29	DE	201	PEB	C3B-C2B	5.44	1.48	1.36
29	T1	202	PEB	C3C-C4C	5.44	1.50	1.42
29	TK	202	PEB	C3C-C4C	5.44	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nJ	202	PEB	C3B-C2B	5.43	1.48	1.36
29	nL	202	PEB	C3B-C2B	5.43	1.48	1.36
29	eB	201	PEB	C3C-C4C	5.43	1.50	1.42
29	eM	201	PEB	C3C-C4C	5.43	1.50	1.42
29	HC	201	PEB	C3B-C2B	5.43	1.48	1.36
29	HE	201	PEB	C3B-C2B	5.43	1.48	1.36
29	RJ	202	PEB	C3B-C2B	5.43	1.48	1.36
29	RL	202	PEB	C3B-C2B	5.43	1.48	1.36
29	JC	201	PEB	C3B-C2B	5.43	1.48	1.36
29	JE	201	PEB	C3B-C2B	5.43	1.48	1.36
29	M3	202	PEB	C3B-C2B	5.43	1.48	1.36
29	MO	202	PEB	C3B-C2B	5.43	1.48	1.36
29	i1	203	PEB	C3C-C4C	5.43	1.50	1.42
29	iK	203	PEB	C3C-C4C	5.43	1.50	1.42
29	FC	201	PEB	C3B-C2B	5.43	1.48	1.36
29	FE	201	PEB	C3B-C2B	5.43	1.48	1.36
31	G9	1001	CYC	C3B-C2B	5.43	1.48	1.36
29	FG	203	PEB	C3C-C4C	5.43	1.50	1.42
31	K7	1001	CYC	C3B-C2B	5.43	1.48	1.36
29	G4	203	PEB	C3C-C4C	5.43	1.50	1.42
29	DA	203	PEB	C3C-C4C	5.43	1.50	1.42
29	DN	203	PEB	C3C-C4C	5.43	1.50	1.42
29	A3	202	PEB	C3C-C4C	5.43	1.50	1.42
29	AO	202	PEB	C3C-C4C	5.43	1.50	1.42
29	P1	203	PEB	C3C-C4C	5.42	1.50	1.42
29	TB	201	PEB	C3C-C4C	5.42	1.50	1.42
29	PK	203	PEB	C3C-C4C	5.42	1.50	1.42
29	TM	201	PEB	C3C-C4C	5.42	1.50	1.42
29	LC	201	PEB	C3B-C2B	5.42	1.48	1.36
29	LE	201	PEB	C3B-C2B	5.42	1.48	1.36
29	V1	203	PEB	C3C-C4C	5.42	1.50	1.42
29	VK	203	PEB	C3C-C4C	5.42	1.50	1.42
29	NJ	202	PEB	C3B-C2B	5.42	1.48	1.36
29	NL	202	PEB	C3B-C2B	5.42	1.48	1.36
29	NB	201	PEB	C3C-C4C	5.42	1.50	1.42
29	NM	201	PEB	C3C-C4C	5.42	1.50	1.42
29	BA	203	PEB	C3C-C4C	5.42	1.50	1.42
29	BN	203	PEB	C3C-C4C	5.42	1.50	1.42
29	D3	202	PEB	C3B-C2B	5.42	1.48	1.36
29	b7	201	PEB	C3C-C4C	5.42	1.50	1.42
29	b9	201	PEB	C3C-C4C	5.42	1.50	1.42
29	XB	201	PEB	C3C-C4C	5.42	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	XM	201	PEB	C3C-C4C	5.42	1.50	1.42
29	gB	201	PEB	C3C-C4C	5.42	1.50	1.42
29	gM	201	PEB	C3C-C4C	5.42	1.50	1.42
31	G7	1001	CYC	C3B-C2B	5.42	1.48	1.36
29	C4	203	PEB	C3C-C4C	5.41	1.50	1.42
29	Z7	201	PEB	C3C-C4C	5.41	1.50	1.42
29	Z9	201	PEB	C3C-C4C	5.41	1.50	1.42
29	m1	202	PEB	C3C-C4C	5.41	1.50	1.42
29	mK	202	PEB	C3C-C4C	5.41	1.50	1.42
29	ID	203	PEB	C3C-C4C	5.41	1.50	1.42
29	K4	203	PEB	C3C-C4C	5.41	1.50	1.42
29	CD	203	PEB	C3C-C4C	5.41	1.50	1.42
29	MD	203	PEB	C3C-C4C	5.41	1.50	1.42
29	j7	201	PEB	C3C-C4C	5.41	1.50	1.42
29	j9	201	PEB	C3C-C4C	5.41	1.50	1.42
29	DA	202	PEB	C3C-C4C	5.41	1.50	1.42
29	DN	202	PEB	C3C-C4C	5.41	1.50	1.42
31	WP	1001	CYC	C3B-C2B	5.40	1.48	1.36
31	M7	1001	CYC	C3B-C2B	5.40	1.48	1.36
29	PB	201	PEB	C3C-C4C	5.40	1.50	1.42
29	PM	201	PEB	C3C-C4C	5.40	1.50	1.42
29	l7	201	PEB	C3C-C4C	5.40	1.50	1.42
29	l9	201	PEB	C3C-C4C	5.40	1.50	1.42
29	WJ	202	PEB	C3C-C4C	5.40	1.50	1.42
29	WL	202	PEB	C3C-C4C	5.40	1.50	1.42
29	A7	304	PEB	C3B-C2B	5.40	1.48	1.36
31	C7	1001	CYC	C3B-C2B	5.40	1.48	1.36
31	C9	1001	CYC	C3B-C2B	5.40	1.48	1.36
29	k1	203	PEB	C3C-C4C	5.40	1.50	1.42
29	kK	203	PEB	C3C-C4C	5.40	1.50	1.42
29	W7	201	PEB	C3C-C4C	5.40	1.50	1.42
29	W9	201	PEB	C3C-C4C	5.40	1.50	1.42
29	JA	203	PEB	C3C-C4C	5.40	1.50	1.42
29	JN	203	PEB	C3C-C4C	5.40	1.50	1.42
31	M9	1001	CYC	C3B-C2B	5.40	1.48	1.36
29	ED	202	PEB	C3C-C4C	5.40	1.50	1.42
29	LA	203	PEB	C3C-C4C	5.39	1.50	1.42
29	LN	203	PEB	C3C-C4C	5.39	1.50	1.42
29	LC	203	PEB	C3B-C2B	5.39	1.48	1.36
29	LE	203	PEB	C3B-C2B	5.39	1.48	1.36
29	f7	201	PEB	C3C-C4C	5.39	1.50	1.42
29	h7	201	PEB	C3C-C4C	5.39	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	f9	201	PEB	C3C-C4C	5.39	1.50	1.42
29	h9	201	PEB	C3C-C4C	5.39	1.50	1.42
29	K3	202	PEB	C3C-C4C	5.39	1.50	1.42
29	KO	202	PEB	C3C-C4C	5.39	1.50	1.42
29	R1	203	PEB	C3C-C4C	5.39	1.50	1.42
29	FA	202	PEB	C3C-C4C	5.39	1.50	1.42
29	RK	203	PEB	C3C-C4C	5.39	1.50	1.42
29	FN	202	PEB	C3C-C4C	5.39	1.50	1.42
29	O7	201	PEB	C3C-C4C	5.39	1.50	1.42
29	d7	201	PEB	C3C-C4C	5.39	1.50	1.42
29	O9	201	PEB	C3C-C4C	5.39	1.50	1.42
29	d9	201	PEB	C3C-C4C	5.39	1.50	1.42
29	DO	202	PEB	C3B-C2B	5.39	1.48	1.36
29	a1	203	PEB	C3C-C4C	5.39	1.50	1.42
29	LB	201	PEB	C3C-C4C	5.39	1.50	1.42
29	aK	203	PEB	C3C-C4C	5.39	1.50	1.42
29	LM	201	PEB	C3C-C4C	5.39	1.50	1.42
29	KA	202	PEB	C3B-C2B	5.39	1.48	1.36
29	KN	202	PEB	C3B-C2B	5.39	1.48	1.36
29	FC	203	PEB	C3B-C2B	5.39	1.48	1.36
29	FE	203	PEB	C3B-C2B	5.39	1.48	1.36
29	c1	203	PEB	C3C-C4C	5.38	1.50	1.42
29	oJ	201	PEB	C3C-C4C	5.38	1.50	1.42
29	cK	203	PEB	C3C-C4C	5.38	1.50	1.42
29	oL	201	PEB	C3C-C4C	5.38	1.50	1.42
30	MA	402	PUB	C2C-C3C	5.38	1.48	1.36
29	cJ	201	PEB	C3C-C4C	5.38	1.50	1.42
29	cL	201	PEB	C3C-C4C	5.38	1.50	1.42
29	OJ	201	PEB	C3C-C4C	5.38	1.50	1.42
29	kJ	201	PEB	C3C-C4C	5.38	1.50	1.42
29	OL	201	PEB	C3C-C4C	5.38	1.50	1.42
29	kL	201	PEB	C3C-C4C	5.38	1.50	1.42
29	IA	202	PEB	C3B-C2B	5.37	1.48	1.36
29	IN	202	PEB	C3B-C2B	5.37	1.48	1.36
29	FA	203	PEB	C3C-C4C	5.37	1.50	1.42
29	JA	202	PEB	C3C-C4C	5.37	1.50	1.42
29	CJ	201	PEB	C3C-C4C	5.37	1.50	1.42
29	CL	201	PEB	C3C-C4C	5.37	1.50	1.42
29	FN	203	PEB	C3C-C4C	5.37	1.50	1.42
29	JN	202	PEB	C3C-C4C	5.37	1.50	1.42
29	mJ	201	PEB	C3C-C4C	5.37	1.50	1.42
29	mL	201	PEB	C3C-C4C	5.37	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	uJ	202	PEB	C3C-C4C	5.37	1.50	1.42
29	uL	202	PEB	C3C-C4C	5.37	1.50	1.42
29	HC	203	PEB	C3B-C2B	5.36	1.48	1.36
29	HE	203	PEB	C3B-C2B	5.36	1.48	1.36
29	JC	202	PEB	C3B-C2B	5.36	1.48	1.36
29	JE	202	PEB	C3B-C2B	5.36	1.48	1.36
29	eJ	202	PEB	C3B-C2B	5.36	1.48	1.36
29	eL	202	PEB	C3B-C2B	5.36	1.48	1.36
29	A1	303	PEB	C3B-C2B	5.36	1.48	1.36
29	AK	303	PEB	C3B-C2B	5.36	1.48	1.36
29	HA	203	PEB	C3C-C4C	5.36	1.50	1.42
29	HN	203	PEB	C3C-C4C	5.36	1.50	1.42
30	MN	402	PUB	C2C-C3C	5.36	1.48	1.36
29	GA	202	PEB	C3B-C2B	5.36	1.48	1.36
29	GN	202	PEB	C3B-C2B	5.36	1.48	1.36
29	aJ	201	PEB	C3C-C4C	5.36	1.50	1.42
29	qJ	201	PEB	C3C-C4C	5.36	1.50	1.42
29	aL	201	PEB	C3C-C4C	5.36	1.50	1.42
29	qL	201	PEB	C3C-C4C	5.36	1.50	1.42
29	A9	304	PEB	C3B-C2B	5.36	1.48	1.36
29	YF	203	PEB	C3B-C2B	5.36	1.48	1.36
29	YI	203	PEB	C3B-C2B	5.36	1.48	1.36
29	BC	203	PEB	C3B-C2B	5.36	1.48	1.36
29	BE	203	PEB	C3B-C2B	5.36	1.48	1.36
29	iJ	201	PEB	C3C-C4C	5.36	1.50	1.42
29	iL	201	PEB	C3C-C4C	5.36	1.50	1.42
29	N7	1002	PEB	C3B-C2B	5.36	1.48	1.36
29	N9	1002	PEB	C3B-C2B	5.36	1.48	1.36
29	BA	202	PEB	C3C-C4C	5.35	1.50	1.42
29	BN	202	PEB	C3C-C4C	5.35	1.50	1.42
29	cJ	202	PEB	C3B-C2B	5.35	1.48	1.36
29	cL	202	PEB	C3B-C2B	5.35	1.48	1.36
29	HA	202	PEB	C3C-C4C	5.35	1.50	1.42
29	HN	202	PEB	C3C-C4C	5.35	1.50	1.42
29	AA	202	PEB	C3B-C2B	5.35	1.48	1.36
29	cF	202	PEB	C3B-C2B	5.35	1.48	1.36
29	cI	202	PEB	C3B-C2B	5.35	1.48	1.36
29	AN	202	PEB	C3B-C2B	5.35	1.48	1.36
29	U7	201	PEB	C3C-C4C	5.35	1.50	1.42
29	U9	201	PEB	C3C-C4C	5.35	1.50	1.42
29	gJ	201	PEB	C3C-C4C	5.35	1.50	1.42
29	gL	201	PEB	C3C-C4C	5.35	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	TF	202	PEB	C3B-C2B	5.35	1.48	1.36
29	TI	202	PEB	C3B-C2B	5.35	1.48	1.36
29	oJ	202	PEB	C3B-C2B	5.35	1.48	1.36
29	oL	202	PEB	C3B-C2B	5.35	1.48	1.36
30	A1	305	PUB	C2C-C3C	5.35	1.48	1.36
30	AK	305	PUB	C2C-C3C	5.35	1.48	1.36
29	QJ	201	PEB	C3C-C4C	5.34	1.50	1.42
29	QL	201	PEB	C3C-C4C	5.34	1.50	1.42
31	KF	1001	CYC	C3B-C2B	5.34	1.48	1.36
29	DC	202	PEB	C3B-C2B	5.34	1.48	1.36
29	DE	202	PEB	C3B-C2B	5.34	1.48	1.36
29	GJ	201	PEB	C3C-C4C	5.34	1.50	1.42
29	GL	201	PEB	C3C-C4C	5.34	1.50	1.42
29	W2	201	PEB	C3B-C2B	5.34	1.48	1.36
29	M3	201	PEB	C3B-C2B	5.34	1.48	1.36
29	eF	203	PEB	C3B-C2B	5.34	1.48	1.36
29	eI	203	PEB	C3B-C2B	5.34	1.48	1.36
29	MO	201	PEB	C3B-C2B	5.34	1.48	1.36
29	kJ	202	PEB	C3B-C2B	5.34	1.48	1.36
29	kL	202	PEB	C3B-C2B	5.34	1.48	1.36
29	UJ	201	PEB	C3C-C4C	5.34	1.50	1.42
29	UL	201	PEB	C3C-C4C	5.34	1.50	1.42
31	KI	1001	CYC	C3B-C2B	5.34	1.48	1.36
29	QJ	202	PEB	C3B-C2B	5.34	1.48	1.36
29	QL	202	PEB	C3B-C2B	5.34	1.48	1.36
29	F7	1002	PEB	C3B-C2B	5.34	1.48	1.36
29	J7	1002	PEB	C3B-C2B	5.34	1.48	1.36
29	PF	203	PEB	C3B-C2B	5.33	1.48	1.36
29	PI	203	PEB	C3B-C2B	5.33	1.48	1.36
29	LA	202	PEB	C3C-C4C	5.33	1.50	1.42
29	LN	202	PEB	C3C-C4C	5.33	1.50	1.42
29	mJ	202	PEB	C3B-C2B	5.33	1.48	1.36
29	mL	202	PEB	C3B-C2B	5.33	1.48	1.36
29	kF	203	PEB	C3B-C2B	5.33	1.48	1.36
29	kI	203	PEB	C3B-C2B	5.33	1.48	1.36
29	WJ	203	PEB	C3B-C2B	5.33	1.48	1.36
29	WL	203	PEB	C3B-C2B	5.33	1.48	1.36
29	SJ	201	PEB	C3C-C4C	5.33	1.50	1.42
29	SL	201	PEB	C3C-C4C	5.33	1.50	1.42
29	H7	1002	PEB	C3B-C2B	5.33	1.48	1.36
29	H9	1002	PEB	C3B-C2B	5.33	1.48	1.36
29	YJ	202	PEB	C3B-C2B	5.33	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YL	202	PEB	C3B-C2B	5.33	1.48	1.36
29	iJ	202	PEB	C3B-C2B	5.33	1.48	1.36
29	qJ	202	PEB	C3B-C2B	5.33	1.48	1.36
29	iL	202	PEB	C3B-C2B	5.33	1.48	1.36
29	qL	202	PEB	C3B-C2B	5.33	1.48	1.36
29	YJ	201	PEB	C3C-C4C	5.33	1.50	1.42
29	YL	201	PEB	C3C-C4C	5.33	1.50	1.42
29	L7	1002	PEB	C3B-C2B	5.33	1.48	1.36
29	RF	202	PEB	C3B-C2B	5.33	1.48	1.36
29	RI	202	PEB	C3B-C2B	5.33	1.48	1.36
29	AJ	201	PEB	C3C-C4C	5.33	1.50	1.42
29	AL	201	PEB	C3C-C4C	5.33	1.50	1.42
31	GF	1001	CYC	C3B-C2B	5.33	1.48	1.36
31	GI	1001	CYC	C3B-C2B	5.33	1.48	1.36
31	1P	1002	CYC	C2A-C3A	5.33	1.48	1.36
29	MN	404	PEB	C3C-C4C	5.33	1.50	1.42
29	MA	404	PEB	C3C-C4C	5.33	1.50	1.42
29	uJ	203	PEB	C3B-C2B	5.33	1.48	1.36
29	uL	203	PEB	C3B-C2B	5.33	1.48	1.36
29	F9	1002	PEB	C3B-C2B	5.33	1.48	1.36
29	DJ	201	PEB	C3B-C2B	5.33	1.48	1.36
29	DL	201	PEB	C3B-C2B	5.33	1.48	1.36
29	VF	203	PEB	C3B-C2B	5.33	1.48	1.36
29	VI	203	PEB	C3B-C2B	5.33	1.48	1.36
29	CA	202	PEB	C3B-C2B	5.33	1.48	1.36
29	CN	202	PEB	C3B-C2B	5.33	1.48	1.36
31	MF	1001	CYC	C3B-C2B	5.32	1.48	1.36
31	MI	1001	CYC	C3B-C2B	5.32	1.48	1.36
29	EA	202	PEB	C3B-C2B	5.32	1.48	1.36
29	EN	202	PEB	C3B-C2B	5.32	1.48	1.36
29	KJ	201	PEB	C3C-C4C	5.32	1.50	1.42
29	KL	201	PEB	C3C-C4C	5.32	1.50	1.42
29	aF	203	PEB	C3B-C2B	5.32	1.48	1.36
29	aI	203	PEB	C3B-C2B	5.32	1.48	1.36
29	gJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	gL	202	PEB	C3B-C2B	5.32	1.48	1.36
29	U2	201	PEB	C3B-C2B	5.32	1.48	1.36
29	UR	201	PEB	C3B-C2B	5.32	1.48	1.36
31	EF	1001	CYC	C3B-C2B	5.32	1.48	1.36
31	EI	1001	CYC	C3B-C2B	5.32	1.48	1.36
31	CP	1001	CYC	C2A-C3A	5.32	1.48	1.36
31	YP	1000	CYC	C2A-C3A	5.32	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CG	202	PEB	C3B-C2B	5.32	1.48	1.36
29	CQ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	WR	201	PEB	C3B-C2B	5.32	1.48	1.36
31	IF	1001	CYC	C3B-C2B	5.32	1.48	1.36
31	II	1001	CYC	C3B-C2B	5.32	1.48	1.36
29	H4	201	PEB	C3B-C2B	5.32	1.48	1.36
29	EJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	EL	202	PEB	C3B-C2B	5.32	1.48	1.36
31	F7	1001	CYC	C2A-C3A	5.32	1.48	1.36
29	M2	201	PEB	C3B-C2B	5.32	1.48	1.36
29	IJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	sJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	IL	202	PEB	C3B-C2B	5.32	1.48	1.36
29	sL	202	PEB	C3B-C2B	5.32	1.48	1.36
29	MR	201	PEB	C3B-C2B	5.32	1.48	1.36
29	eJ	201	PEB	C3C-C4C	5.32	1.50	1.42
29	eL	201	PEB	C3C-C4C	5.32	1.50	1.42
29	AJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	AL	202	PEB	C3B-C2B	5.32	1.48	1.36
29	OJ	202	PEB	C3B-C2B	5.32	1.48	1.36
29	OL	202	PEB	C3B-C2B	5.32	1.48	1.36
29	L3	202	PEB	C3B-C2B	5.32	1.48	1.36
29	LO	202	PEB	C3B-C2B	5.32	1.48	1.36
29	CJ	202	PEB	C3B-C2B	5.31	1.48	1.36
29	CL	202	PEB	C3B-C2B	5.31	1.48	1.36
29	MJ	201	PEB	C3C-C4C	5.31	1.50	1.42
29	ML	201	PEB	C3C-C4C	5.31	1.50	1.42
29	KJ	202	PEB	C3B-C2B	5.31	1.48	1.36
29	KL	202	PEB	C3B-C2B	5.31	1.48	1.36
31	H7	1001	CYC	C2A-C3A	5.31	1.48	1.36
31	H9	1001	CYC	C2A-C3A	5.31	1.48	1.36
29	J9	1002	PEB	C3B-C2B	5.31	1.48	1.36
29	KG	202	PEB	C3B-C2B	5.31	1.48	1.36
29	KQ	202	PEB	C3B-C2B	5.31	1.48	1.36
29	D3	203	PEB	C3B-C2B	5.31	1.48	1.36
29	IG	202	PEB	C3B-C2B	5.31	1.48	1.36
29	DO	203	PEB	C3B-C2B	5.31	1.48	1.36
29	IQ	202	PEB	C3B-C2B	5.31	1.48	1.36
31	L7	1001	CYC	C2A-C3A	5.31	1.48	1.36
29	AG	202	PEB	C3B-C2B	5.31	1.48	1.36
29	tJ	201	PEB	C3B-C2B	5.31	1.48	1.36
29	tL	201	PEB	C3B-C2B	5.31	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AQ	202	PEB	C3B-C2B	5.31	1.48	1.36
29	QR	201	PEB	C3B-C2B	5.31	1.48	1.36
29	iF	203	PEB	C3B-C2B	5.31	1.48	1.36
29	iI	203	PEB	C3B-C2B	5.31	1.48	1.36
29	IJ	201	PEB	C3C-C4C	5.31	1.50	1.42
29	IL	201	PEB	C3C-C4C	5.31	1.50	1.42
29	D7	1002	PEB	C3B-C2B	5.31	1.48	1.36
29	D9	1002	PEB	C3B-C2B	5.31	1.48	1.36
29	UJ	202	PEB	C3B-C2B	5.31	1.48	1.36
29	UL	202	PEB	C3B-C2B	5.31	1.48	1.36
29	c1	203	PEB	C3B-C2B	5.31	1.48	1.36
29	cK	203	PEB	C3B-C2B	5.31	1.48	1.36
29	MG	404	PEB	C3C-C4C	5.31	1.50	1.42
29	N3	201	PEB	C3B-C2B	5.31	1.48	1.36
29	sJ	201	PEB	C3C-C4C	5.31	1.50	1.42
29	sL	201	PEB	C3C-C4C	5.31	1.50	1.42
29	mF	203	PEB	C3B-C2B	5.31	1.48	1.36
29	mI	203	PEB	C3B-C2B	5.31	1.48	1.36
29	hJ	201	PEB	C3B-C2B	5.31	1.48	1.36
29	hL	201	PEB	C3B-C2B	5.31	1.48	1.36
31	RP	1001	CYC	C2A-C3A	5.31	1.48	1.36
29	GJ	202	PEB	C3B-C2B	5.30	1.48	1.36
29	GL	202	PEB	C3B-C2B	5.30	1.48	1.36
29	FD	201	PEB	C3B-C2B	5.30	1.48	1.36
29	MQ	406	PEB	C3C-C4C	5.30	1.50	1.42
31	F9	1001	CYC	C2A-C3A	5.30	1.48	1.36
29	SJ	202	PEB	C3B-C2B	5.30	1.48	1.36
29	SL	202	PEB	C3B-C2B	5.30	1.48	1.36
29	B3	203	PEB	C3B-C2B	5.30	1.48	1.36
29	BO	203	PEB	C3B-C2B	5.30	1.48	1.36
29	gF	203	PEB	C3B-C2B	5.30	1.48	1.36
29	gI	203	PEB	C3B-C2B	5.30	1.48	1.36
29	L9	1002	PEB	C3B-C2B	5.30	1.48	1.36
29	R1	203	PEB	C3B-C2B	5.30	1.48	1.36
29	RK	203	PEB	C3B-C2B	5.30	1.48	1.36
29	Y1	202	PEB	C3B-C2B	5.30	1.48	1.36
29	aJ	202	PEB	C3B-C2B	5.30	1.48	1.36
29	YK	202	PEB	C3B-C2B	5.30	1.48	1.36
29	aL	202	PEB	C3B-C2B	5.30	1.48	1.36
29	MA	404	PEB	C3B-C2B	5.30	1.48	1.36
29	O2	201	PEB	C3B-C2B	5.30	1.48	1.36
29	OR	201	PEB	C3B-C2B	5.30	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	vP	1001	CYC	C2A-C3A	5.30	1.48	1.36
29	A7	301	PEB	C3B-C2B	5.29	1.48	1.36
29	A9	301	PEB	C3B-C2B	5.29	1.48	1.36
31	iP	1001	CYC	C2A-C3A	5.29	1.48	1.36
31	iP	1001	CYC	C3B-C2B	5.29	1.48	1.36
31	PP	1001	CYC	C2A-C3A	5.29	1.48	1.36
29	I8	203	PEB	C3C-C4C	5.29	1.50	1.42
29	PJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	PL	201	PEB	C3B-C2B	5.29	1.48	1.36
31	KP	1001	CYC	C2A-C3A	5.29	1.48	1.36
29	EG	202	PEB	C3B-C2B	5.29	1.48	1.36
29	NO	201	PEB	C3B-C2B	5.29	1.48	1.36
29	EQ	202	PEB	C3B-C2B	5.29	1.48	1.36
29	ZJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	vJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	ZL	201	PEB	C3B-C2B	5.29	1.48	1.36
29	vL	201	PEB	C3B-C2B	5.29	1.48	1.36
31	D7	1001	CYC	C2A-C3A	5.29	1.48	1.36
31	D9	1001	CYC	C2A-C3A	5.29	1.48	1.36
29	EJ	201	PEB	C3C-C4C	5.29	1.50	1.42
29	EL	201	PEB	C3C-C4C	5.29	1.50	1.42
29	NJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	NL	201	PEB	C3B-C2B	5.29	1.48	1.36
29	T1	202	PEB	C3B-C2B	5.29	1.48	1.36
29	VJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	TK	202	PEB	C3B-C2B	5.29	1.48	1.36
29	VL	201	PEB	C3B-C2B	5.29	1.48	1.36
30	BB	302	PUB	C2C-C3C	5.29	1.48	1.36
30	BM	302	PUB	C2C-C3C	5.29	1.48	1.36
31	CF	1001	CYC	C3B-C2B	5.29	1.48	1.36
31	CI	1001	CYC	C3B-C2B	5.29	1.48	1.36
31	eP	1001	CYC	C2A-C3A	5.29	1.48	1.36
30	QB	201	PUB	C2B-C1B	5.29	1.50	1.42
30	QM	201	PUB	C2B-C1B	5.29	1.50	1.42
29	B4	201	PEB	C3B-C2B	5.29	1.48	1.36
29	JJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	JL	201	PEB	C3B-C2B	5.29	1.48	1.36
29	fJ	201	PEB	C3B-C2B	5.29	1.48	1.36
29	fL	201	PEB	C3B-C2B	5.29	1.48	1.36
31	WP	1001	CYC	C2A-C3A	5.28	1.48	1.36
31	NP	1001	CYC	C2A-C3A	5.28	1.48	1.36
31	J9	1001	CYC	C2A-C3A	5.28	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	L9	1001	CYC	C2A-C3A	5.28	1.48	1.36
29	D4	201	PEB	C3B-C2B	5.28	1.48	1.36
31	N7	1001	CYC	C2A-C3A	5.28	1.48	1.36
31	N9	1001	CYC	C2A-C3A	5.28	1.48	1.36
29	i1	203	PEB	C3B-C2B	5.28	1.48	1.36
29	iK	203	PEB	C3B-C2B	5.28	1.48	1.36
31	J7	1001	CYC	C2A-C3A	5.28	1.48	1.36
29	J3	203	PEB	C3B-C2B	5.28	1.48	1.36
29	JO	203	PEB	C3B-C2B	5.28	1.48	1.36
31	cP	1001	CYC	C2A-C3A	5.28	1.48	1.36
29	MN	404	PEB	C3B-C2B	5.28	1.47	1.36
29	MJ	202	PEB	C3B-C2B	5.28	1.47	1.36
29	ML	202	PEB	C3B-C2B	5.28	1.47	1.36
29	bJ	201	PEB	C3B-C2B	5.28	1.47	1.36
29	bL	201	PEB	C3B-C2B	5.28	1.47	1.36
29	A1	301	PEB	C3B-C2B	5.28	1.47	1.36
29	AK	301	PEB	C3B-C2B	5.28	1.47	1.36
31	rP	1001	CYC	C2A-C3A	5.28	1.47	1.36
29	GG	202	PEB	C3B-C2B	5.28	1.47	1.36
29	GQ	202	PEB	C3B-C2B	5.28	1.47	1.36
29	C8	203	PEB	C3C-C4C	5.28	1.50	1.42
29	nJ	201	PEB	C3B-C2B	5.27	1.47	1.36
29	nL	201	PEB	C3B-C2B	5.27	1.47	1.36
29	V1	203	PEB	C3B-C2B	5.27	1.47	1.36
29	Q2	201	PEB	C3B-C2B	5.27	1.47	1.36
29	F3	203	PEB	C3B-C2B	5.27	1.47	1.36
29	VK	203	PEB	C3B-C2B	5.27	1.47	1.36
29	FO	203	PEB	C3B-C2B	5.27	1.47	1.36
30	A1	304	PUB	C2C-C3C	5.27	1.47	1.36
30	AK	304	PUB	C2C-C3C	5.27	1.47	1.36
29	MG	401	PEB	C3B-C2B	5.27	1.47	1.36
29	RJ	201	PEB	C3B-C2B	5.27	1.47	1.36
29	RL	201	PEB	C3B-C2B	5.27	1.47	1.36
29	JA	201	PEB	C3B-C2B	5.27	1.47	1.36
29	JN	201	PEB	C3B-C2B	5.27	1.47	1.36
29	H3	203	PEB	C3B-C2B	5.27	1.47	1.36
29	HA	201	PEB	C3B-C2B	5.27	1.47	1.36
29	HN	201	PEB	C3B-C2B	5.27	1.47	1.36
29	HO	203	PEB	C3B-C2B	5.27	1.47	1.36
29	k1	203	PEB	C3B-C2B	5.27	1.47	1.36
29	kK	203	PEB	C3B-C2B	5.27	1.47	1.36
31	xP	1001	CYC	C1A-C2A	5.27	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	yJ	302	PUB	C2C-C3C	5.27	1.47	1.36
30	yL	302	PUB	C2C-C3C	5.27	1.47	1.36
29	BJ	201	PEB	C3B-C2B	5.27	1.47	1.36
29	BL	201	PEB	C3B-C2B	5.27	1.47	1.36
29	DD	201	PEB	C3B-C2B	5.27	1.47	1.36
29	LJ	201	PEB	C3B-C2B	5.26	1.47	1.36
29	LL	201	PEB	C3B-C2B	5.26	1.47	1.36
29	TJ	201	PEB	C3B-C2B	5.26	1.47	1.36
29	TL	201	PEB	C3B-C2B	5.26	1.47	1.36
31	mP	1001	CYC	C2A-C3A	5.26	1.47	1.36
29	m1	202	PEB	C3B-C2B	5.26	1.47	1.36
29	mK	202	PEB	C3B-C2B	5.26	1.47	1.36
31	TP	1001	CYC	C2A-C3A	5.26	1.47	1.36
29	BA	201	PEB	C3B-C2B	5.26	1.47	1.36
29	BN	201	PEB	C3B-C2B	5.26	1.47	1.36
29	dF	201	PEB	C3C-C4C	5.26	1.50	1.42
29	dI	201	PEB	C3C-C4C	5.26	1.50	1.42
29	lJ	201	PEB	C3B-C2B	5.26	1.47	1.36
29	lL	201	PEB	C3B-C2B	5.26	1.47	1.36
31	KP	1001	CYC	C3B-C2B	5.26	1.47	1.36
30	yJ	302	PUB	C2B-C1B	5.26	1.50	1.42
30	yL	302	PUB	C2B-C1B	5.26	1.50	1.42
29	P1	203	PEB	C3B-C2B	5.26	1.47	1.36
29	PK	203	PEB	C3B-C2B	5.26	1.47	1.36
31	EP	1001	CYC	C2A-C3A	5.26	1.47	1.36
29	e1	203	PEB	C3B-C2B	5.26	1.47	1.36
29	eK	203	PEB	C3B-C2B	5.26	1.47	1.36
29	L4	201	PEB	C3B-C2B	5.26	1.47	1.36
29	MQ	403	PEB	C3B-C2B	5.26	1.47	1.36
29	HD	201	PEB	C3B-C2B	5.26	1.47	1.36
31	1P	1002	CYC	C3B-C2B	5.26	1.47	1.36
29	BD	201	PEB	C3B-C2B	5.26	1.47	1.36
29	XJ	201	PEB	C3B-C2B	5.26	1.47	1.36
29	jJ	201	PEB	C3B-C2B	5.26	1.47	1.36
29	XL	201	PEB	C3B-C2B	5.26	1.47	1.36
29	jL	201	PEB	C3B-C2B	5.26	1.47	1.36
29	LD	201	PEB	C3B-C2B	5.25	1.47	1.36
31	pP	1001	CYC	C2A-C3A	5.25	1.47	1.36
30	wL	305	PUB	C2B-C1B	5.25	1.50	1.42
31	tP	1001	CYC	C2A-C3A	5.25	1.47	1.36
29	AF	305	PEB	C3B-C2B	5.25	1.47	1.36
29	AI	305	PEB	C3B-C2B	5.25	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L3	202	PEB	C3C-C4C	5.25	1.50	1.42
29	LO	202	PEB	C3C-C4C	5.25	1.50	1.42
31	NP	1001	CYC	C3B-C2B	5.25	1.47	1.36
31	gP	1001	CYC	C2A-C3A	5.25	1.47	1.36
29	mF	202	PEB	C3C-C4C	5.25	1.50	1.42
29	mI	202	PEB	C3C-C4C	5.25	1.50	1.42
29	A5	203	PEB	C3C-C4C	5.25	1.50	1.42
29	A8	203	PEB	C3C-C4C	5.25	1.50	1.42
31	cP	1001	CYC	C3B-C2B	5.25	1.47	1.36
29	a1	203	PEB	C3B-C2B	5.25	1.47	1.36
29	F4	201	PEB	C3B-C2B	5.25	1.47	1.36
29	aK	203	PEB	C3B-C2B	5.25	1.47	1.36
29	aJ	202	PEB	C3C-C4C	5.25	1.50	1.42
29	aL	202	PEB	C3C-C4C	5.25	1.50	1.42
29	V1	201	PEB	C3B-C2B	5.25	1.47	1.36
29	VK	201	PEB	C3B-C2B	5.25	1.47	1.36
29	g1	203	PEB	C3B-C2B	5.25	1.47	1.36
29	gK	203	PEB	C3B-C2B	5.25	1.47	1.36
31	JP	1001	CYC	C3B-C2B	5.25	1.47	1.36
29	k1	201	PEB	C3B-C2B	5.24	1.47	1.36
29	kK	201	PEB	C3B-C2B	5.24	1.47	1.36
29	C5	203	PEB	C3C-C4C	5.24	1.50	1.42
29	YF	202	PEB	C3C-C4C	5.24	1.50	1.42
29	YI	202	PEB	C3C-C4C	5.24	1.50	1.42
29	A3	202	PEB	C3B-C2B	5.24	1.47	1.36
29	AO	202	PEB	C3B-C2B	5.24	1.47	1.36
29	I5	203	PEB	C3C-C4C	5.24	1.50	1.42
29	F1	1002	PEB	C1D-ND	5.24	1.53	1.45
29	FK	1002	PEB	C1D-ND	5.24	1.53	1.45
31	VP	1001	CYC	C1A-C2A	5.24	1.54	1.45
29	DA	201	PEB	C3B-C2B	5.24	1.47	1.36
29	rJ	201	PEB	C3B-C2B	5.24	1.47	1.36
29	rL	201	PEB	C3B-C2B	5.24	1.47	1.36
29	DN	201	PEB	C3B-C2B	5.24	1.47	1.36
31	G7	1001	CYC	C2A-C3A	5.24	1.47	1.36
31	AP	1001	CYC	C3B-C2B	5.24	1.47	1.36
31	PP	1001	CYC	C3B-C2B	5.24	1.47	1.36
29	pJ	201	PEB	C3B-C2B	5.24	1.47	1.36
29	pL	201	PEB	C3B-C2B	5.24	1.47	1.36
31	tP	1001	CYC	C3B-C2B	5.24	1.47	1.36
29	CC	201	PEB	C3C-C4C	5.24	1.50	1.42
29	CE	201	PEB	C3C-C4C	5.24	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	wJ	305	PUB	C2B-C1B	5.24	1.50	1.42
31	RP	1001	CYC	C3B-C2B	5.24	1.47	1.36
31	yP	1001	CYC	C2A-C3A	5.24	1.47	1.36
29	AC	201	PEB	C3C-C4C	5.24	1.50	1.42
29	AE	201	PEB	C3C-C4C	5.24	1.50	1.42
29	J1	1002	PEB	C3B-C2B	5.24	1.47	1.36
29	JK	1002	PEB	C3B-C2B	5.24	1.47	1.36
31	E7	1001	CYC	C2A-C3A	5.24	1.47	1.36
31	E9	1001	CYC	C2A-C3A	5.24	1.47	1.36
30	A7	303	PUB	C2C-C3C	5.24	1.47	1.36
30	A9	303	PUB	C2C-C3C	5.24	1.47	1.36
29	I3	202	PEB	C3B-C2B	5.24	1.47	1.36
29	IO	202	PEB	C3B-C2B	5.24	1.47	1.36
29	a1	201	PEB	C3B-C2B	5.24	1.47	1.36
29	LA	201	PEB	C3B-C2B	5.24	1.47	1.36
29	aK	201	PEB	C3B-C2B	5.24	1.47	1.36
29	LN	201	PEB	C3B-C2B	5.24	1.47	1.36
29	OF	203	PEB	C3C-C4C	5.24	1.50	1.42
29	OI	203	PEB	C3C-C4C	5.24	1.50	1.42
30	AF	302	PUB	C2C-C3C	5.23	1.47	1.36
30	AI	302	PUB	C2C-C3C	5.23	1.47	1.36
31	JP	1001	CYC	C2A-C3A	5.23	1.47	1.36
31	lP	1001	CYC	C2A-C3A	5.23	1.47	1.36
31	GP	1001	CYC	C3B-C2B	5.23	1.47	1.36
29	UF	201	PEB	C3C-C4C	5.23	1.50	1.42
29	UI	201	PEB	C3C-C4C	5.23	1.50	1.42
29	gJ	202	PEB	C3C-C4C	5.23	1.50	1.42
29	gL	202	PEB	C3C-C4C	5.23	1.50	1.42
29	NO	201	PEB	C3C-C4C	5.23	1.50	1.42
29	dJ	201	PEB	C3B-C2B	5.23	1.47	1.36
29	dL	201	PEB	C3B-C2B	5.23	1.47	1.36
29	R1	201	PEB	C3B-C2B	5.23	1.47	1.36
29	RK	201	PEB	C3B-C2B	5.23	1.47	1.36
31	1P	1001	CYC	CHB-C1B	5.23	1.50	1.38
29	M3	201	PEB	C3C-C4C	5.23	1.50	1.42
29	MO	201	PEB	C3C-C4C	5.23	1.50	1.42
29	D3	203	PEB	C3C-C4C	5.23	1.50	1.42
29	UB	201	PEB	C3C-C4C	5.23	1.50	1.42
29	UM	201	PEB	C3C-C4C	5.23	1.50	1.42
29	DO	203	PEB	C3C-C4C	5.23	1.50	1.42
31	rP	1001	CYC	C3B-C2B	5.23	1.47	1.36
29	kF	202	PEB	C3C-C4C	5.23	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kI	202	PEB	C3C-C4C	5.23	1.50	1.42
29	K5	203	PEB	C3C-C4C	5.23	1.50	1.42
29	K8	203	PEB	C3C-C4C	5.23	1.50	1.42
29	JA	201	PEB	C3C-C4C	5.23	1.50	1.42
29	JN	201	PEB	C3C-C4C	5.23	1.50	1.42
29	FJ	201	PEB	C3B-C2B	5.23	1.47	1.36
29	FL	201	PEB	C3B-C2B	5.23	1.47	1.36
31	I7	1001	CYC	C2A-C3A	5.23	1.47	1.36
31	I9	1001	CYC	C2A-C3A	5.23	1.47	1.36
29	P1	201	PEB	C3B-C2B	5.23	1.47	1.36
29	PK	201	PEB	C3B-C2B	5.23	1.47	1.36
29	N3	201	PEB	C3C-C4C	5.23	1.50	1.42
29	N1	1002	PEB	C3B-C2B	5.23	1.47	1.36
29	NK	1002	PEB	C3B-C2B	5.22	1.47	1.36
29	G3	202	PEB	C3B-C2B	5.22	1.47	1.36
29	GO	202	PEB	C3B-C2B	5.22	1.47	1.36
29	BC	201	PEB	C3C-C4C	5.22	1.50	1.42
29	BE	201	PEB	C3C-C4C	5.22	1.50	1.42
31	K7	1001	CYC	C2A-C3A	5.22	1.47	1.36
31	YP	1000	CYC	C3B-C2B	5.22	1.47	1.36
31	IP	1001	CYC	C3B-C2B	5.22	1.47	1.36
29	H3	203	PEB	C3C-C4C	5.22	1.50	1.42
29	HO	203	PEB	C3C-C4C	5.22	1.50	1.42
29	J4	201	PEB	C3B-C2B	5.22	1.47	1.36
29	VF	202	PEB	C3C-C4C	5.22	1.50	1.42
29	VI	202	PEB	C3C-C4C	5.22	1.50	1.42
31	gP	1001	CYC	C3B-C2B	5.22	1.47	1.36
31	pP	1001	CYC	C3B-C2B	5.22	1.47	1.36
29	FA	201	PEB	C3B-C2B	5.22	1.47	1.36
29	FN	201	PEB	C3B-C2B	5.22	1.47	1.36
31	AP	1001	CYC	C2A-C3A	5.22	1.47	1.36
29	L1	1002	PEB	C1D-ND	5.22	1.53	1.45
29	LK	1002	PEB	C1D-ND	5.22	1.53	1.45
31	G9	1001	CYC	C2A-C3A	5.22	1.47	1.36
29	F1	1002	PEB	C3B-C2B	5.22	1.47	1.36
29	FK	1002	PEB	C3B-C2B	5.22	1.47	1.36
31	CP	1001	CYC	C3B-C2B	5.22	1.47	1.36
31	xP	1001	CYC	CHB-C1B	5.22	1.50	1.38
31	CP	1001	CYC	CHB-C1B	5.22	1.50	1.38
29	DA	201	PEB	C3C-C4C	5.22	1.50	1.42
29	DN	201	PEB	C3C-C4C	5.22	1.50	1.42
29	kJ	202	PEB	C3C-C4C	5.22	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kL	202	PEB	C3C-C4C	5.22	1.50	1.42
31	EP	1001	CYC	CHB-C1B	5.22	1.50	1.38
29	iJ	202	PEB	C3C-C4C	5.21	1.50	1.42
29	iL	202	PEB	C3C-C4C	5.21	1.50	1.42
29	C5	201	PEB	C3B-C2B	5.21	1.47	1.36
29	C8	201	PEB	C3B-C2B	5.21	1.47	1.36
29	K5	202	PEB	C3C-C4C	5.21	1.50	1.42
29	E3	202	PEB	C3B-C2B	5.21	1.47	1.36
29	EO	202	PEB	C3B-C2B	5.21	1.47	1.36
29	QB	203	PEB	C3C-C4C	5.21	1.50	1.42
29	CJ	202	PEB	C3C-C4C	5.21	1.50	1.42
29	CL	202	PEB	C3C-C4C	5.21	1.50	1.42
29	QM	203	PEB	C3C-C4C	5.21	1.50	1.42
31	kP	1001	CYC	CHB-C1B	5.21	1.50	1.38
29	g1	201	PEB	C3B-C2B	5.21	1.47	1.36
29	gK	201	PEB	C3B-C2B	5.21	1.47	1.36
31	QP	1001	CYC	CHB-C1B	5.21	1.50	1.38
29	DK	1002	PEB	C1D-ND	5.21	1.53	1.45
29	e1	201	PEB	C3B-C2B	5.21	1.47	1.36
29	eK	201	PEB	C3B-C2B	5.21	1.47	1.36
30	xJ	304	PUB	C2C-C3C	5.21	1.47	1.36
29	C5	202	PEB	C3C-C4C	5.21	1.50	1.42
29	C8	202	PEB	C3C-C4C	5.21	1.50	1.42
29	OJ	202	PEB	C3C-C4C	5.21	1.50	1.42
29	SJ	202	PEB	C3C-C4C	5.21	1.50	1.42
29	OL	202	PEB	C3C-C4C	5.21	1.50	1.42
29	SL	202	PEB	C3C-C4C	5.21	1.50	1.42
29	NK	1002	PEB	C1D-ND	5.21	1.53	1.45
31	mP	1001	CYC	C3B-C2B	5.21	1.47	1.36
29	K8	202	PEB	C3C-C4C	5.21	1.50	1.42
29	HK	1002	PEB	C3B-C2B	5.21	1.47	1.36
31	C7	1001	CYC	C2A-C3A	5.21	1.47	1.36
31	C9	1001	CYC	C2A-C3A	5.21	1.47	1.36
31	M9	1001	CYC	C2A-C3A	5.21	1.47	1.36
29	C3	202	PEB	C3B-C2B	5.21	1.47	1.36
29	CO	202	PEB	C3B-C2B	5.21	1.47	1.36
29	eF	202	PEB	C3C-C4C	5.21	1.50	1.42
29	eI	202	PEB	C3C-C4C	5.21	1.50	1.42
29	Y1	201	PEB	C3B-C2B	5.21	1.47	1.36
29	YK	201	PEB	C3B-C2B	5.21	1.47	1.36
29	gF	202	PEB	C3C-C4C	5.21	1.50	1.42
29	gI	202	PEB	C3C-C4C	5.21	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	VP	1001	CYC	CHB-C1B	5.21	1.50	1.38
29	WJ	203	PEB	C3C-C4C	5.21	1.50	1.42
29	WL	203	PEB	C3C-C4C	5.21	1.50	1.42
29	i1	201	PEB	C3B-C2B	5.20	1.47	1.36
29	iK	201	PEB	C3B-C2B	5.20	1.47	1.36
29	MB	201	PEB	C3C-C4C	5.20	1.50	1.42
29	MM	201	PEB	C3C-C4C	5.20	1.50	1.42
30	A7	302	PUB	C2B-C1B	5.20	1.50	1.42
30	A9	302	PUB	C2B-C1B	5.20	1.50	1.42
29	JD	201	PEB	C3B-C2B	5.20	1.47	1.36
29	PF	202	PEB	C3C-C4C	5.20	1.50	1.42
29	PI	202	PEB	C3C-C4C	5.20	1.50	1.42
29	T1	201	PEB	C3B-C2B	5.20	1.47	1.36
29	TK	201	PEB	C3B-C2B	5.20	1.47	1.36
29	J1	1002	PEB	C1D-ND	5.20	1.53	1.45
29	JK	1002	PEB	C1D-ND	5.20	1.53	1.45
29	GD	203	PEB	C3B-C2B	5.20	1.47	1.36
31	EP	1001	CYC	C3B-C2B	5.20	1.47	1.36
29	I5	201	PEB	C3B-C2B	5.20	1.47	1.36
29	I8	201	PEB	C3B-C2B	5.20	1.47	1.36
29	sJ	202	PEB	C3C-C4C	5.20	1.50	1.42
29	sL	202	PEB	C3C-C4C	5.20	1.50	1.42
29	LC	201	PEB	C3C-C4C	5.20	1.50	1.42
29	LE	201	PEB	C3C-C4C	5.20	1.50	1.42
29	J3	203	PEB	C3C-C4C	5.20	1.50	1.42
29	KB	201	PEB	C3C-C4C	5.20	1.50	1.42
29	KM	201	PEB	C3C-C4C	5.20	1.50	1.42
29	JO	203	PEB	C3C-C4C	5.20	1.50	1.42
31	M7	1001	CYC	C2A-C3A	5.20	1.47	1.36
31	K9	1001	CYC	C2A-C3A	5.20	1.47	1.36
29	qJ	202	PEB	C3C-C4C	5.20	1.50	1.42
29	qL	202	PEB	C3C-C4C	5.20	1.50	1.42
29	L1	1002	PEB	C3B-C2B	5.20	1.47	1.36
29	LK	1002	PEB	C3B-C2B	5.20	1.47	1.36
29	F3	203	PEB	C3C-C4C	5.20	1.50	1.42
29	FO	203	PEB	C3C-C4C	5.20	1.50	1.42
29	A5	201	PEB	C3B-C2B	5.20	1.47	1.36
29	A8	201	PEB	C3B-C2B	5.20	1.47	1.36
29	cJ	202	PEB	C3C-C4C	5.20	1.50	1.42
29	cL	202	PEB	C3C-C4C	5.20	1.50	1.42
31	GP	1001	CYC	C2A-C3A	5.20	1.47	1.36
29	c1	201	PEB	C3B-C2B	5.20	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	cK	201	PEB	C3B-C2B	5.20	1.47	1.36
29	QJ	202	PEB	C3C-C4C	5.20	1.50	1.42
29	QL	202	PEB	C3C-C4C	5.20	1.50	1.42
29	aF	202	PEB	C3C-C4C	5.20	1.50	1.42
29	aI	202	PEB	C3C-C4C	5.20	1.50	1.42
29	KJ	202	PEB	C3C-C4C	5.20	1.50	1.42
29	KL	202	PEB	C3C-C4C	5.20	1.50	1.42
31	XP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	DP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	wP	1001	CYC	CHB-C1B	5.19	1.50	1.38
29	jB	201	PEB	C3B-C2B	5.19	1.47	1.36
29	jM	201	PEB	C3B-C2B	5.19	1.47	1.36
31	vP	1001	CYC	C3B-C2B	5.19	1.47	1.36
31	JP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	MP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	VP	1001	CYC	C3B-C2B	5.19	1.47	1.36
29	jB	201	PEB	C3C-C4C	5.19	1.50	1.42
29	jM	201	PEB	C3C-C4C	5.19	1.50	1.42
31	jP	1001	CYC	CHB-C1B	5.19	1.50	1.38
29	KB	201	PEB	C3B-C2B	5.19	1.47	1.36
29	KM	201	PEB	C3B-C2B	5.19	1.47	1.36
29	eJ	202	PEB	C3C-C4C	5.19	1.50	1.42
29	eL	202	PEB	C3C-C4C	5.19	1.50	1.42
31	oP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	AP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	mP	1001	CYC	CHB-C1B	5.19	1.50	1.38
29	EJ	202	PEB	C3C-C4C	5.19	1.50	1.42
29	EL	202	PEB	C3C-C4C	5.19	1.50	1.42
31	nP	1001	CYC	CHB-C1B	5.19	1.50	1.38
31	pP	1001	CYC	CHB-C1B	5.19	1.50	1.38
30	wL	304	PUB	C2C-C3C	5.19	1.47	1.36
29	GC	201	PEB	C3C-C4C	5.19	1.50	1.42
29	GE	201	PEB	C3C-C4C	5.19	1.50	1.42
29	iF	202	PEB	C3C-C4C	5.19	1.50	1.42
29	iI	202	PEB	C3C-C4C	5.19	1.50	1.42
29	D1	1002	PEB	C3B-C2B	5.19	1.47	1.36
29	K3	202	PEB	C3B-C2B	5.19	1.47	1.36
29	IC	201	PEB	C3B-C2B	5.19	1.47	1.36
29	IE	201	PEB	C3B-C2B	5.19	1.47	1.36
29	KO	202	PEB	C3B-C2B	5.19	1.47	1.36
30	xJ	305	PUB	C2B-C1B	5.19	1.50	1.42
29	B3	203	PEB	C3C-C4C	5.19	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GB	201	PEB	C3C-C4C	5.19	1.50	1.42
29	GM	201	PEB	C3C-C4C	5.19	1.50	1.42
29	BO	203	PEB	C3C-C4C	5.19	1.50	1.42
31	hP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	KP	1001	CYC	CHB-C1B	5.18	1.50	1.38
29	QB	203	PEB	C3B-C2B	5.18	1.47	1.36
29	QM	203	PEB	C3B-C2B	5.18	1.47	1.36
29	b1	202	PEB	C3C-C4C	5.18	1.50	1.42
29	bK	202	PEB	C3C-C4C	5.18	1.50	1.42
31	eP	1001	CYC	C3B-C2B	5.18	1.47	1.36
29	Q1	202	PEB	C3C-C4C	5.18	1.50	1.42
29	QK	202	PEB	C3C-C4C	5.18	1.50	1.42
29	IB	201	PEB	C3C-C4C	5.18	1.50	1.42
29	uJ	203	PEB	C3C-C4C	5.18	1.50	1.42
29	uL	203	PEB	C3C-C4C	5.18	1.50	1.42
29	IM	201	PEB	C3C-C4C	5.18	1.50	1.42
30	xL	304	PUB	C2C-C3C	5.18	1.47	1.36
29	H1	1002	PEB	C3B-C2B	5.18	1.47	1.36
31	HP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	rP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	tP	1001	CYC	CHB-C1B	5.18	1.50	1.38
29	lB	201	PEB	C3C-C4C	5.18	1.50	1.42
29	lM	201	PEB	C3C-C4C	5.18	1.50	1.42
31	FP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	lP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	TP	1001	CYC	C3B-C2B	5.18	1.47	1.36
29	K5	201	PEB	C3B-C2B	5.18	1.47	1.36
29	K8	201	PEB	C3B-C2B	5.18	1.47	1.36
29	BA	201	PEB	C3C-C4C	5.18	1.50	1.42
29	BN	201	PEB	C3C-C4C	5.18	1.50	1.42
29	hB	201	PEB	C3C-C4C	5.18	1.50	1.42
29	hM	201	PEB	C3C-C4C	5.18	1.50	1.42
31	GP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	qP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	RP	1001	CYC	CHB-C1B	5.18	1.50	1.38
30	xL	305	PUB	C2B-C1B	5.18	1.50	1.42
29	A5	203	PEB	C3B-C2B	5.18	1.47	1.36
29	A8	203	PEB	C3B-C2B	5.18	1.47	1.36
29	EB	201	PEB	C3C-C4C	5.18	1.50	1.42
29	EM	201	PEB	C3C-C4C	5.18	1.50	1.42
31	cP	1001	CYC	CHB-C1B	5.18	1.50	1.38
31	UP	1001	CYC	CHB-C1B	5.18	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I5	203	PEB	C3B-C2B	5.18	1.47	1.36
29	UB	201	PEB	C3B-C2B	5.18	1.47	1.36
29	UM	201	PEB	C3B-C2B	5.18	1.47	1.36
29	N1	1002	PEB	C1D-ND	5.18	1.53	1.45
29	AJ	202	PEB	C3C-C4C	5.18	1.50	1.42
29	MJ	202	PEB	C3C-C4C	5.18	1.50	1.42
29	mJ	202	PEB	C3C-C4C	5.18	1.50	1.42
29	AL	202	PEB	C3C-C4C	5.18	1.50	1.42
29	ML	202	PEB	C3C-C4C	5.18	1.50	1.42
29	mL	202	PEB	C3C-C4C	5.18	1.50	1.42
29	HA	201	PEB	C3C-C4C	5.18	1.50	1.42
29	LA	201	PEB	C3C-C4C	5.18	1.50	1.42
29	HN	201	PEB	C3C-C4C	5.18	1.50	1.42
29	LN	201	PEB	C3C-C4C	5.18	1.50	1.42
29	I8	203	PEB	C3B-C2B	5.17	1.47	1.36
29	KC	202	PEB	C3B-C2B	5.17	1.47	1.36
29	KE	202	PEB	C3B-C2B	5.17	1.47	1.36
29	FA	201	PEB	C3C-C4C	5.17	1.50	1.42
29	IJ	202	PEB	C3C-C4C	5.17	1.50	1.42
29	IL	202	PEB	C3C-C4C	5.17	1.50	1.42
29	FN	201	PEB	C3C-C4C	5.17	1.50	1.42
29	M4	203	PEB	C3C-C4C	5.17	1.50	1.42
31	gP	1001	CYC	CHB-C1B	5.17	1.50	1.38
31	BP	1001	CYC	CHB-C1B	5.17	1.50	1.38
29	EC	201	PEB	C3B-C2B	5.17	1.47	1.36
29	EE	201	PEB	C3B-C2B	5.17	1.47	1.36
29	D1	1002	PEB	C1D-ND	5.17	1.53	1.45
29	WB	201	PEB	C3B-C2B	5.17	1.47	1.36
29	WM	201	PEB	C3B-C2B	5.17	1.47	1.36
30	AF	303	PUB	C2C-C3C	5.17	1.47	1.36
30	AI	303	PUB	C2C-C3C	5.17	1.47	1.36
29	CB	201	PEB	C3C-C4C	5.17	1.50	1.42
29	CM	201	PEB	C3C-C4C	5.17	1.50	1.42
29	H1	1002	PEB	C1D-ND	5.17	1.53	1.45
31	fP	1001	CYC	CHB-C1B	5.17	1.50	1.38
29	DK	1002	PEB	C3B-C2B	5.17	1.47	1.36
29	EC	201	PEB	C3C-C4C	5.17	1.50	1.42
29	EE	201	PEB	C3C-C4C	5.17	1.50	1.42
31	eP	1001	CYC	CHB-C1B	5.17	1.50	1.38
29	IB	201	PEB	C3B-C2B	5.17	1.47	1.36
29	IM	201	PEB	C3B-C2B	5.17	1.47	1.36
29	OB	201	PEB	C3C-C4C	5.17	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	OM	201	PEB	C3C-C4C	5.17	1.50	1.42
29	A5	202	PEB	C3C-C4C	5.17	1.50	1.42
29	A8	202	PEB	C3C-C4C	5.17	1.50	1.42
29	GJ	202	PEB	C3C-C4C	5.17	1.50	1.42
29	GL	202	PEB	C3C-C4C	5.17	1.50	1.42
30	yJ	303	PUB	C2B-C1B	5.17	1.50	1.42
29	MB	201	PEB	C3B-C2B	5.17	1.47	1.36
29	MM	201	PEB	C3B-C2B	5.17	1.47	1.36
30	wJ	304	PUB	C2C-C3C	5.17	1.47	1.36
29	m1	201	PEB	C3B-C2B	5.17	1.47	1.36
29	mK	201	PEB	C3B-C2B	5.17	1.47	1.36
29	WB	201	PEB	C3C-C4C	5.17	1.50	1.42
29	FC	201	PEB	C3C-C4C	5.17	1.50	1.42
29	FE	201	PEB	C3C-C4C	5.17	1.50	1.42
29	WM	201	PEB	C3C-C4C	5.17	1.50	1.42
31	IP	1001	CYC	CHB-C1B	5.17	1.50	1.38
31	TP	1001	CYC	CHB-C1B	5.17	1.50	1.38
29	j1	202	PEB	C3C-C4C	5.16	1.50	1.42
29	jK	202	PEB	C3C-C4C	5.16	1.50	1.42
29	IC	201	PEB	C3C-C4C	5.16	1.50	1.42
29	IE	201	PEB	C3C-C4C	5.16	1.50	1.42
31	iP	1001	CYC	CHB-C1B	5.16	1.50	1.38
31	PP	1001	CYC	CHB-C1B	5.16	1.50	1.38
31	SP	1001	CYC	CHB-C1B	5.16	1.50	1.38
29	WF	202	PEB	C3B-C2B	5.16	1.47	1.36
29	WI	202	PEB	C3B-C2B	5.16	1.47	1.36
29	I5	202	PEB	C3C-C4C	5.16	1.50	1.42
29	I8	202	PEB	C3C-C4C	5.16	1.50	1.42
29	HK	1002	PEB	C1D-ND	5.16	1.53	1.45
29	oJ	202	PEB	C3C-C4C	5.16	1.50	1.42
29	oL	202	PEB	C3C-C4C	5.16	1.50	1.42
29	CB	201	PEB	C3B-C2B	5.16	1.47	1.36
29	CM	201	PEB	C3B-C2B	5.16	1.47	1.36
29	dB	201	PEB	C3C-C4C	5.16	1.50	1.42
29	dM	201	PEB	C3C-C4C	5.16	1.50	1.42
29	SB	201	PEB	C3B-C2B	5.16	1.47	1.36
29	SM	201	PEB	C3B-C2B	5.16	1.47	1.36
29	YB	202	PEB	C3C-C4C	5.16	1.50	1.42
29	YM	202	PEB	C3C-C4C	5.16	1.50	1.42
29	SB	201	PEB	C3C-C4C	5.16	1.50	1.42
29	SM	201	PEB	C3C-C4C	5.16	1.50	1.42
29	K8	203	PEB	C3B-C2B	5.16	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KD	203	PEB	C3B-C2B	5.16	1.47	1.36
29	GC	201	PEB	C3B-C2B	5.16	1.47	1.36
29	GE	201	PEB	C3B-C2B	5.16	1.47	1.36
29	GB	201	PEB	C3B-C2B	5.16	1.47	1.36
29	dB	201	PEB	C3B-C2B	5.16	1.47	1.36
29	GM	201	PEB	C3B-C2B	5.16	1.47	1.36
29	dM	201	PEB	C3B-C2B	5.16	1.47	1.36
29	dI	202	PEB	C3C-C4C	5.16	1.50	1.42
29	dK	202	PEB	C3C-C4C	5.16	1.50	1.42
29	K4	203	PEB	C3B-C2B	5.16	1.47	1.36
29	E4	203	PEB	C3B-C2B	5.15	1.47	1.36
29	AC	201	PEB	C3B-C2B	5.15	1.47	1.36
29	AE	201	PEB	C3B-C2B	5.15	1.47	1.36
29	K5	203	PEB	C3B-C2B	5.15	1.47	1.36
29	UJ	202	PEB	C3C-C4C	5.15	1.50	1.42
29	UL	202	PEB	C3C-C4C	5.15	1.50	1.42
29	H3	202	PEB	C3B-C2B	5.15	1.47	1.36
29	HO	202	PEB	C3B-C2B	5.15	1.47	1.36
29	Q2	201	PEB	C3C-C4C	5.15	1.50	1.42
29	CC	201	PEB	C3B-C2B	5.15	1.47	1.36
29	CE	201	PEB	C3B-C2B	5.15	1.47	1.36
31	vP	1001	CYC	CHB-C1B	5.15	1.50	1.38
31	sP	1001	CYC	CHB-C1B	5.15	1.50	1.38
29	MG	404	PEB	C3B-C2B	5.15	1.47	1.36
31	xP	1001	CYC	C3B-C2B	5.15	1.47	1.36
29	OR	201	PEB	C3C-C4C	5.15	1.50	1.42
29	YB	202	PEB	C3B-C2B	5.15	1.47	1.36
29	YM	202	PEB	C3B-C2B	5.15	1.47	1.36
29	ZI	203	PEB	C3C-C4C	5.15	1.50	1.42
29	ZK	203	PEB	C3C-C4C	5.15	1.50	1.42
29	IB	201	PEB	C3B-C2B	5.15	1.47	1.36
29	IM	201	PEB	C3B-C2B	5.15	1.47	1.36
29	HC	201	PEB	C3C-C4C	5.15	1.50	1.42
29	HE	201	PEB	C3C-C4C	5.15	1.50	1.42
29	MD	203	PEB	C3B-C2B	5.15	1.47	1.36
29	SF	202	PEB	C3B-C2B	5.15	1.47	1.36
29	SI	202	PEB	C3B-C2B	5.15	1.47	1.36
29	IG	202	PEB	C3C-C4C	5.15	1.50	1.42
29	IQ	202	PEB	C3C-C4C	5.15	1.50	1.42
29	MR	202	PEB	C3C-C4C	5.15	1.50	1.42
31	OP	1001	CYC	CHB-C1B	5.15	1.50	1.38
29	C5	203	PEB	C3B-C2B	5.15	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C8	203	PEB	C3B-C2B	5.15	1.47	1.36
29	U2	201	PEB	C3C-C4C	5.15	1.50	1.42
29	JC	201	PEB	C3C-C4C	5.15	1.50	1.42
29	JE	201	PEB	C3C-C4C	5.15	1.50	1.42
29	h1	202	PEB	C3C-C4C	5.14	1.50	1.42
29	YJ	202	PEB	C3C-C4C	5.14	1.50	1.42
29	hK	202	PEB	C3C-C4C	5.14	1.50	1.42
29	YL	202	PEB	C3C-C4C	5.14	1.50	1.42
29	lF	202	PEB	C3B-C2B	5.14	1.47	1.36
29	lI	202	PEB	C3B-C2B	5.14	1.47	1.36
29	UF	203	PEB	C3B-C2B	5.14	1.47	1.36
29	hF	202	PEB	C3B-C2B	5.14	1.47	1.36
29	UI	203	PEB	C3B-C2B	5.14	1.47	1.36
29	hI	202	PEB	C3B-C2B	5.14	1.47	1.36
29	DO	202	PEB	C3C-C4C	5.14	1.50	1.42
29	fB	201	PEB	C3B-C2B	5.14	1.47	1.36
29	fM	201	PEB	C3B-C2B	5.14	1.47	1.36
29	BB	301	PEB	C3B-C2B	5.14	1.47	1.36
29	BM	301	PEB	C3B-C2B	5.14	1.47	1.36
29	fB	201	PEB	C3C-C4C	5.14	1.50	1.42
29	KC	202	PEB	C3C-C4C	5.14	1.50	1.42
29	KE	202	PEB	C3C-C4C	5.14	1.50	1.42
29	CG	202	PEB	C3C-C4C	5.14	1.50	1.42
29	fM	201	PEB	C3C-C4C	5.14	1.50	1.42
29	CQ	202	PEB	C3C-C4C	5.14	1.50	1.42
29	dF	203	PEB	C3B-C2B	5.14	1.47	1.36
29	dI	203	PEB	C3B-C2B	5.14	1.47	1.36
29	LB	203	PEB	C3B-C2B	5.14	1.47	1.36
29	LM	203	PEB	C3B-C2B	5.14	1.47	1.36
29	EG	202	PEB	C3C-C4C	5.14	1.50	1.42
29	EQ	202	PEB	C3C-C4C	5.14	1.50	1.42
29	hB	201	PEB	C3B-C2B	5.14	1.47	1.36
29	hM	201	PEB	C3B-C2B	5.14	1.47	1.36
29	OB	201	PEB	C3B-C2B	5.14	1.47	1.36
29	OM	201	PEB	C3B-C2B	5.14	1.47	1.36
31	NP	1001	CYC	CHB-C1B	5.14	1.50	1.38
29	ED	202	PEB	C3B-C2B	5.14	1.47	1.36
29	EB	201	PEB	C3B-C2B	5.14	1.47	1.36
29	EM	201	PEB	C3B-C2B	5.14	1.47	1.36
30	yL	303	PUB	C2B-C1B	5.14	1.50	1.42
29	QF	202	PEB	C3B-C2B	5.14	1.47	1.36
29	QI	202	PEB	C3B-C2B	5.14	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	uP	1001	CYC	CHB-C1B	5.14	1.50	1.38
29	aB	201	PEB	C3B-C2B	5.14	1.47	1.36
29	aM	201	PEB	C3B-C2B	5.14	1.47	1.36
29	OF	202	PEB	C3B-C2B	5.13	1.47	1.36
29	OI	202	PEB	C3B-C2B	5.13	1.47	1.36
29	yJ	301	PEB	C3C-C4C	5.13	1.50	1.42
29	yL	301	PEB	C3C-C4C	5.13	1.50	1.42
29	G5	201	PEB	C3B-C2B	5.13	1.47	1.36
29	HB	203	PEB	C3B-C2B	5.13	1.47	1.36
29	RB	203	PEB	C3B-C2B	5.13	1.47	1.36
29	HM	203	PEB	C3B-C2B	5.13	1.47	1.36
29	RM	203	PEB	C3B-C2B	5.13	1.47	1.36
29	aB	201	PEB	C3C-C4C	5.13	1.50	1.42
29	DC	201	PEB	C3C-C4C	5.13	1.50	1.42
29	DE	201	PEB	C3C-C4C	5.13	1.50	1.42
29	aM	201	PEB	C3C-C4C	5.13	1.50	1.42
30	QB	201	PUB	C2C-C3C	5.13	1.47	1.36
30	QM	201	PUB	C2C-C3C	5.13	1.47	1.36
29	VB	203	PEB	C3B-C2B	5.13	1.47	1.36
29	VM	203	PEB	C3B-C2B	5.13	1.47	1.36
29	NB	201	PEB	C3B-C2B	5.13	1.47	1.36
29	NM	201	PEB	C3B-C2B	5.13	1.47	1.36
29	F8	201	PEB	C3B-C2B	5.13	1.47	1.36
29	JF	1002	PEB	C3B-C2B	5.13	1.47	1.36
29	JI	1002	PEB	C3B-C2B	5.13	1.47	1.36
29	DF	1002	PEB	C3B-C2B	5.13	1.47	1.36
29	DI	1002	PEB	C3B-C2B	5.13	1.47	1.36
29	AG	202	PEB	C3C-C4C	5.13	1.50	1.42
29	AQ	202	PEB	C3C-C4C	5.13	1.50	1.42
29	ZF	202	PEB	C3B-C2B	5.13	1.47	1.36
29	ZI	202	PEB	C3B-C2B	5.13	1.47	1.36
29	l1	202	PEB	C3C-C4C	5.12	1.50	1.42
29	lK	202	PEB	C3C-C4C	5.12	1.50	1.42
29	O2	201	PEB	C3C-C4C	5.12	1.50	1.42
29	HF	1002	PEB	C3B-C2B	5.12	1.47	1.36
29	HI	1002	PEB	C3B-C2B	5.12	1.47	1.36
29	NF	1002	PEB	C3B-C2B	5.12	1.47	1.36
29	NI	1002	PEB	C3B-C2B	5.12	1.47	1.36
29	S1	202	PEB	C3C-C4C	5.12	1.50	1.42
29	SK	202	PEB	C3C-C4C	5.12	1.50	1.42
29	G4	203	PEB	C3B-C2B	5.12	1.47	1.36
29	M2	201	PEB	C3C-C4C	5.12	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	fF	202	PEB	C3B-C2B	5.12	1.47	1.36
29	jF	202	PEB	C3B-C2B	5.12	1.47	1.36
29	fI	202	PEB	C3B-C2B	5.12	1.47	1.36
29	jI	202	PEB	C3B-C2B	5.12	1.47	1.36
29	FB	201	PEB	C3B-C2B	5.12	1.47	1.36
29	FM	201	PEB	C3B-C2B	5.12	1.47	1.36
29	MQ	406	PEB	C3B-C2B	5.12	1.47	1.36
29	B3	202	PEB	C3B-C2B	5.12	1.47	1.36
29	F3	202	PEB	C3B-C2B	5.12	1.47	1.36
29	BO	202	PEB	C3B-C2B	5.12	1.47	1.36
29	FO	202	PEB	C3B-C2B	5.12	1.47	1.36
31	F1	1001	CYC	C3B-C2B	5.12	1.47	1.36
31	FK	1001	CYC	C3B-C2B	5.12	1.47	1.36
29	ID	203	PEB	C3B-C2B	5.12	1.47	1.36
31	NK	1001	CYC	C3B-C2B	5.11	1.47	1.36
29	PB	202	PEB	C3B-C2B	5.11	1.47	1.36
29	PM	202	PEB	C3B-C2B	5.11	1.47	1.36
29	C4	203	PEB	C3B-C2B	5.11	1.47	1.36
29	LF	1002	PEB	C3B-C2B	5.11	1.47	1.36
29	LI	1002	PEB	C3B-C2B	5.11	1.47	1.36
29	O1	202	PEB	C3C-C4C	5.11	1.50	1.42
29	OK	202	PEB	C3C-C4C	5.11	1.50	1.42
29	OR	202	PEB	C3C-C4C	5.11	1.50	1.42
29	H5	201	PEB	C3B-C2B	5.11	1.47	1.36
29	G8	201	PEB	C3B-C2B	5.11	1.47	1.36
29	I3	203	PEB	C3B-C2B	5.11	1.47	1.36
29	IO	203	PEB	C3B-C2B	5.11	1.47	1.36
29	D3	202	PEB	C3C-C4C	5.11	1.50	1.42
29	NB	202	PEB	C3B-C2B	5.11	1.47	1.36
29	NM	202	PEB	C3B-C2B	5.11	1.47	1.36
29	eB	201	PEB	C3B-C2B	5.11	1.47	1.36
29	eM	201	PEB	C3B-C2B	5.11	1.47	1.36
29	JG	201	PEB	C3B-C2B	5.11	1.47	1.36
29	JQ	201	PEB	C3B-C2B	5.11	1.47	1.36
29	fI	202	PEB	C3C-C4C	5.11	1.50	1.42
29	fK	202	PEB	C3C-C4C	5.11	1.50	1.42
29	CD	203	PEB	C3B-C2B	5.11	1.47	1.36
31	HK	1001	CYC	C3B-C2B	5.11	1.47	1.36
29	U1	203	PEB	C3C-C4C	5.11	1.50	1.42
29	UK	203	PEB	C3C-C4C	5.11	1.50	1.42
29	eB	202	PEB	C3B-C2B	5.10	1.47	1.36
29	eM	202	PEB	C3B-C2B	5.10	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MR	201	PEB	C3C-C4C	5.10	1.50	1.42
29	FB	203	PEB	C3B-C2B	5.10	1.47	1.36
29	FM	203	PEB	C3B-C2B	5.10	1.47	1.36
31	L1	1001	CYC	C3B-C2B	5.10	1.47	1.36
31	LK	1001	CYC	C3B-C2B	5.10	1.47	1.36
29	cB	203	PEB	C3B-C2B	5.10	1.47	1.36
29	cM	203	PEB	C3B-C2B	5.10	1.47	1.36
29	W1	202	PEB	C3C-C4C	5.10	1.50	1.42
29	WK	202	PEB	C3C-C4C	5.10	1.50	1.42
29	QR	201	PEB	C3C-C4C	5.10	1.50	1.42
29	J3	202	PEB	C3B-C2B	5.10	1.47	1.36
29	XB	202	PEB	C3B-C2B	5.10	1.47	1.36
29	iB	201	PEB	C3B-C2B	5.10	1.47	1.36
29	iB	203	PEB	C3B-C2B	5.10	1.47	1.36
29	XM	202	PEB	C3B-C2B	5.10	1.47	1.36
29	iM	201	PEB	C3B-C2B	5.10	1.47	1.36
29	iM	203	PEB	C3B-C2B	5.10	1.47	1.36
29	JO	202	PEB	C3B-C2B	5.10	1.47	1.36
29	TB	203	PEB	C3B-C2B	5.10	1.47	1.36
29	TM	203	PEB	C3B-C2B	5.10	1.47	1.36
29	gB	203	PEB	C3B-C2B	5.10	1.47	1.36
29	bF	202	PEB	C3B-C2B	5.10	1.47	1.36
29	bI	202	PEB	C3B-C2B	5.10	1.47	1.36
29	gM	203	PEB	C3B-C2B	5.10	1.47	1.36
29	S2	201	PEB	C3C-C4C	5.10	1.50	1.42
29	W2	201	PEB	C3C-C4C	5.10	1.50	1.42
29	I4	203	PEB	C3C-C4C	5.10	1.50	1.42
29	WR	201	PEB	C3C-C4C	5.10	1.50	1.42
29	DB	201	PEB	C3B-C2B	5.10	1.47	1.36
29	DM	201	PEB	C3B-C2B	5.10	1.47	1.36
29	mB	201	PEB	C3B-C2B	5.10	1.47	1.36
29	mM	201	PEB	C3B-C2B	5.10	1.47	1.36
29	JB	203	PEB	C3B-C2B	5.09	1.47	1.36
29	JM	203	PEB	C3B-C2B	5.09	1.47	1.36
29	DG	201	PEB	C3B-C2B	5.09	1.47	1.36
29	DQ	201	PEB	C3B-C2B	5.09	1.47	1.36
29	Q1	201	PEB	C3C-C4C	5.09	1.50	1.42
29	QK	201	PEB	C3C-C4C	5.09	1.50	1.42
29	H8	203	PEB	C3B-C2B	5.09	1.47	1.36
29	DB	203	PEB	C3B-C2B	5.09	1.47	1.36
29	DM	203	PEB	C3B-C2B	5.09	1.47	1.36
29	J3	201	PEB	C3B-C2B	5.09	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JO	201	PEB	C3B-C2B	5.09	1.47	1.36
29	FF	1002	PEB	C3B-C2B	5.09	1.47	1.36
29	FI	1002	PEB	C3B-C2B	5.09	1.47	1.36
29	F3	201	PEB	C3B-C2B	5.09	1.47	1.36
29	FO	201	PEB	C3B-C2B	5.09	1.47	1.36
29	UR	201	PEB	C3C-C4C	5.09	1.50	1.42
29	S1	201	PEB	C3C-C4C	5.09	1.50	1.42
29	d1	201	PEB	C3C-C4C	5.09	1.50	1.42
29	SK	201	PEB	C3C-C4C	5.09	1.50	1.42
29	dK	201	PEB	C3C-C4C	5.09	1.50	1.42
29	kB	203	PEB	C3B-C2B	5.09	1.47	1.36
29	kM	203	PEB	C3B-C2B	5.09	1.47	1.36
29	H5	203	PEB	C3B-C2B	5.09	1.47	1.36
29	DB	203	PEB	C3C-C4C	5.09	1.50	1.42
29	DM	203	PEB	C3C-C4C	5.09	1.50	1.42
29	AB	302	PEB	C3C-C4C	5.09	1.50	1.42
29	LB	201	PEB	C3B-C2B	5.09	1.47	1.36
29	ZB	203	PEB	C3B-C2B	5.09	1.47	1.36
29	LM	201	PEB	C3B-C2B	5.09	1.47	1.36
29	ZM	203	PEB	C3B-C2B	5.09	1.47	1.36
29	ZB	201	PEB	C3B-C2B	5.09	1.47	1.36
29	yJ	301	PEB	C3B-C2B	5.09	1.47	1.36
29	yL	301	PEB	C3B-C2B	5.09	1.47	1.36
29	ZM	201	PEB	C3B-C2B	5.09	1.47	1.36
31	J1	1001	CYC	C3B-C2B	5.09	1.47	1.36
31	JK	1001	CYC	C3B-C2B	5.09	1.47	1.36
29	GG	202	PEB	C3C-C4C	5.09	1.50	1.42
29	GQ	202	PEB	C3C-C4C	5.09	1.50	1.42
29	FG	201	PEB	C3B-C2B	5.09	1.47	1.36
29	FQ	201	PEB	C3B-C2B	5.09	1.47	1.36
29	H5	202	PEB	C3B-C2B	5.08	1.47	1.36
29	KG	202	PEB	C3C-C4C	5.08	1.50	1.42
29	KQ	202	PEB	C3C-C4C	5.08	1.50	1.42
29	F5	201	PEB	C3B-C2B	5.08	1.47	1.36
29	JB	203	PEB	C3C-C4C	5.08	1.50	1.42
29	JM	203	PEB	C3C-C4C	5.08	1.50	1.42
31	D1	1001	CYC	C3B-C2B	5.08	1.47	1.36
29	G5	202	PEB	C3B-C2B	5.08	1.47	1.36
29	cB	201	PEB	C3B-C2B	5.08	1.47	1.36
29	cM	201	PEB	C3B-C2B	5.08	1.47	1.36
29	kB	203	PEB	C3C-C4C	5.08	1.50	1.42
29	kM	203	PEB	C3C-C4C	5.08	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H3	201	PEB	C3B-C2B	5.08	1.47	1.36
29	HO	201	PEB	C3B-C2B	5.08	1.47	1.36
31	H1	1001	CYC	C3B-C2B	5.08	1.47	1.36
29	FB	203	PEB	C3C-C4C	5.08	1.50	1.42
29	FM	203	PEB	C3C-C4C	5.08	1.50	1.42
29	W7	202	PEB	C3B-C2B	5.08	1.47	1.36
29	W9	202	PEB	C3B-C2B	5.08	1.47	1.36
29	PB	201	PEB	C3B-C2B	5.08	1.47	1.36
29	gB	201	PEB	C3B-C2B	5.08	1.47	1.36
29	PM	201	PEB	C3B-C2B	5.08	1.47	1.36
29	gM	201	PEB	C3B-C2B	5.08	1.47	1.36
29	Z7	202	PEB	C3B-C2B	5.08	1.47	1.36
29	Z9	202	PEB	C3B-C2B	5.08	1.47	1.36
29	D3	201	PEB	C3B-C2B	5.08	1.47	1.36
29	DO	201	PEB	C3B-C2B	5.08	1.47	1.36
31	DK	1001	CYC	C3B-C2B	5.08	1.47	1.36
29	kB	201	PEB	C3B-C2B	5.08	1.47	1.36
29	kM	201	PEB	C3B-C2B	5.08	1.47	1.36
29	G8	202	PEB	C3B-C2B	5.08	1.47	1.36
29	LG	201	PEB	C3B-C2B	5.08	1.47	1.36
29	MQ	402	PEB	C3B-C2B	5.08	1.47	1.36
29	L5	203	PEB	C3B-C2B	5.08	1.47	1.36
31	N1	1001	CYC	C3B-C2B	5.08	1.47	1.36
29	L5	201	PEB	C3B-C2B	5.08	1.47	1.36
29	H8	201	PEB	C3B-C2B	5.08	1.47	1.36
29	h7	202	PEB	C3B-C2B	5.07	1.47	1.36
29	h9	202	PEB	C3B-C2B	5.07	1.47	1.36
29	eB	202	PEB	C3C-C4C	5.07	1.50	1.42
29	eM	202	PEB	C3C-C4C	5.07	1.50	1.42
29	TB	201	PEB	C3B-C2B	5.07	1.47	1.36
29	TM	201	PEB	C3B-C2B	5.07	1.47	1.36
29	HB	203	PEB	C3C-C4C	5.07	1.50	1.42
29	HM	203	PEB	C3C-C4C	5.07	1.50	1.42
29	H8	202	PEB	C3B-C2B	5.07	1.47	1.36
29	RB	201	PEB	C3B-C2B	5.07	1.47	1.36
29	RM	201	PEB	C3B-C2B	5.07	1.47	1.36
29	JB	201	PEB	C3B-C2B	5.07	1.47	1.36
29	JM	201	PEB	C3B-C2B	5.07	1.47	1.36
29	B5	201	PEB	C3B-C2B	5.07	1.47	1.36
29	BG	201	PEB	C3B-C2B	5.07	1.47	1.36
29	BQ	201	PEB	C3B-C2B	5.07	1.47	1.36
29	HB	201	PEB	C3B-C2B	5.07	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HM	201	PEB	C3B-C2B	5.07	1.47	1.36
29	TB	203	PEB	C3C-C4C	5.07	1.50	1.42
29	TM	203	PEB	C3C-C4C	5.07	1.50	1.42
29	XB	201	PEB	C3B-C2B	5.07	1.47	1.36
29	XM	201	PEB	C3B-C2B	5.07	1.47	1.36
29	f7	202	PEB	C3B-C2B	5.07	1.47	1.36
29	f9	202	PEB	C3B-C2B	5.07	1.47	1.36
29	F5	203	PEB	C3B-C2B	5.07	1.47	1.36
29	F8	203	PEB	C3B-C2B	5.07	1.47	1.36
29	K4	202	PEB	C3B-C2B	5.06	1.47	1.36
29	L8	201	PEB	C3B-C2B	5.06	1.47	1.36
29	KD	202	PEB	C3B-C2B	5.06	1.47	1.36
29	W1	201	PEB	C3C-C4C	5.06	1.49	1.42
29	VB	203	PEB	C3C-C4C	5.06	1.49	1.42
29	WK	201	PEB	C3C-C4C	5.06	1.49	1.42
29	VM	203	PEB	C3C-C4C	5.06	1.49	1.42
29	j7	202	PEB	C3B-C2B	5.06	1.47	1.36
29	j9	202	PEB	C3B-C2B	5.06	1.47	1.36
29	mB	203	PEB	C3B-C2B	5.06	1.47	1.36
29	mM	203	PEB	C3B-C2B	5.06	1.47	1.36
29	L3	201	PEB	C3B-C2B	5.06	1.47	1.36
29	LO	201	PEB	C3B-C2B	5.06	1.47	1.36
29	wJ	302	PEB	C3C-C4C	5.06	1.49	1.42
29	JB	202	PEB	C3B-C2B	5.06	1.47	1.36
29	JM	202	PEB	C3B-C2B	5.06	1.47	1.36
29	Z1	202	PEB	C3B-C2B	5.06	1.47	1.36
29	ZK	202	PEB	C3B-C2B	5.06	1.47	1.36
29	h1	201	PEB	C3C-C4C	5.06	1.49	1.42
29	hK	201	PEB	C3C-C4C	5.06	1.49	1.42
29	F5	202	PEB	C3B-C2B	5.06	1.47	1.36
29	B8	202	PEB	C3B-C2B	5.06	1.47	1.36
29	XB	202	PEB	C3C-C4C	5.06	1.49	1.42
29	XM	202	PEB	C3C-C4C	5.06	1.49	1.42
29	B3	201	PEB	C3B-C2B	5.06	1.47	1.36
29	BO	201	PEB	C3B-C2B	5.06	1.47	1.36
29	AB	303	PEB	C3C-C4C	5.06	1.49	1.42
29	f1	201	PEB	C3C-C4C	5.05	1.49	1.42
29	fK	201	PEB	C3C-C4C	5.05	1.49	1.42
29	YB	201	PEB	C3B-C2B	5.05	1.47	1.36
29	YM	201	PEB	C3B-C2B	5.05	1.47	1.36
29	AM	303	PEB	C3C-C4C	5.05	1.49	1.42
29	NB	202	PEB	C3C-C4C	5.05	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	NM	202	PEB	C3C-C4C	5.05	1.49	1.42
29	PB	202	PEB	C3C-C4C	5.05	1.49	1.42
29	PM	202	PEB	C3C-C4C	5.05	1.49	1.42
29	O7	202	PEB	C3B-C2B	5.05	1.47	1.36
29	O9	202	PEB	C3B-C2B	5.05	1.47	1.36
29	L8	202	PEB	C3B-C2B	5.05	1.47	1.36
29	L8	203	PEB	C3B-C2B	5.05	1.47	1.36
31	MP	1001	CYC	C3B-C2B	5.05	1.47	1.36
29	j1	201	PEB	C3C-C4C	5.05	1.49	1.42
29	LB	203	PEB	C3C-C4C	5.05	1.49	1.42
29	jK	201	PEB	C3C-C4C	5.05	1.49	1.42
29	LM	203	PEB	C3C-C4C	5.05	1.49	1.42
29	b1	201	PEB	C3B-C2B	5.05	1.47	1.36
29	bK	201	PEB	C3B-C2B	5.05	1.47	1.36
29	f1	201	PEB	C3B-C2B	5.05	1.47	1.36
29	HG	201	PEB	C3B-C2B	5.05	1.47	1.36
29	fK	201	PEB	C3B-C2B	5.05	1.47	1.36
29	HQ	201	PEB	C3B-C2B	5.05	1.47	1.36
29	AM	302	PEB	C3C-C4C	5.05	1.49	1.42
30	AM	305	PUB	C2C-C3C	5.05	1.47	1.36
29	A5	201	PEB	C3C-C4C	5.05	1.49	1.42
29	A8	201	PEB	C3C-C4C	5.05	1.49	1.42
29	iB	203	PEB	C3C-C4C	5.05	1.49	1.42
29	iM	203	PEB	C3C-C4C	5.05	1.49	1.42
29	b7	202	PEB	C3B-C2B	5.05	1.47	1.36
29	b9	202	PEB	C3B-C2B	5.05	1.47	1.36
29	U7	202	PEB	C3B-C2B	5.05	1.47	1.36
29	U9	202	PEB	C3B-C2B	5.05	1.47	1.36
29	S7	202	PEB	C3B-C2B	5.04	1.47	1.36
29	S9	202	PEB	C3B-C2B	5.04	1.47	1.36
29	RB	203	PEB	C3C-C4C	5.04	1.49	1.42
29	RM	203	PEB	C3C-C4C	5.04	1.49	1.42
30	AB	305	PUB	C2C-C3C	5.04	1.47	1.36
29	L5	202	PEB	C3B-C2B	5.04	1.47	1.36
29	B5	202	PEB	C3B-C2B	5.04	1.47	1.36
29	A5	202	PEB	C3B-C2B	5.04	1.47	1.36
29	A8	202	PEB	C3B-C2B	5.04	1.47	1.36
29	U1	202	PEB	C3C-C4C	5.04	1.49	1.42
29	ZB	203	PEB	C3C-C4C	5.04	1.49	1.42
29	UK	202	PEB	C3C-C4C	5.04	1.49	1.42
29	ZM	203	PEB	C3C-C4C	5.04	1.49	1.42
29	B8	201	PEB	C3B-C2B	5.04	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C5	201	PEB	C3C-C4C	5.04	1.49	1.42
29	mB	203	PEB	C3C-C4C	5.04	1.49	1.42
29	mM	203	PEB	C3C-C4C	5.04	1.49	1.42
29	F8	202	PEB	C3B-C2B	5.04	1.47	1.36
29	TF	201	PEB	C3C-C4C	5.04	1.49	1.42
30	A7	302	PUB	C2C-C3C	5.04	1.47	1.36
30	A9	302	PUB	C2C-C3C	5.04	1.47	1.36
29	Q7	202	PEB	C3B-C2B	5.04	1.47	1.36
29	Q9	202	PEB	C3B-C2B	5.04	1.47	1.36
31	GK	1001	CYC	C2A-C3A	5.04	1.47	1.36
31	OP	1001	CYC	C3B-C2B	5.04	1.47	1.36
29	l7	202	PEB	C3B-C2B	5.04	1.47	1.36
29	l9	202	PEB	C3B-C2B	5.04	1.47	1.36
29	O1	201	PEB	C3B-C2B	5.04	1.47	1.36
29	OK	201	PEB	C3B-C2B	5.04	1.47	1.36
29	cB	203	PEB	C3C-C4C	5.04	1.49	1.42
29	cM	203	PEB	C3C-C4C	5.04	1.49	1.42
29	h1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	l1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	hK	201	PEB	C3B-C2B	5.03	1.47	1.36
29	lK	201	PEB	C3B-C2B	5.03	1.47	1.36
29	U1	202	PEB	C3B-C2B	5.03	1.47	1.36
29	UK	202	PEB	C3B-C2B	5.03	1.47	1.36
29	G8	203	PEB	C3B-C2B	5.03	1.47	1.36
29	mF	202	PEB	C3B-C2B	5.03	1.47	1.36
29	mI	202	PEB	C3B-C2B	5.03	1.47	1.36
29	S7	202	PEB	C3C-C4C	5.03	1.49	1.42
29	S9	202	PEB	C3C-C4C	5.03	1.49	1.42
29	kB	202	PEB	C3B-C2B	5.03	1.47	1.36
29	kM	202	PEB	C3B-C2B	5.03	1.47	1.36
29	G5	203	PEB	C3B-C2B	5.03	1.47	1.36
29	d7	202	PEB	C3B-C2B	5.03	1.47	1.36
29	d9	202	PEB	C3B-C2B	5.03	1.47	1.36
29	VB	201	PEB	C3B-C2B	5.03	1.47	1.36
29	VM	201	PEB	C3B-C2B	5.03	1.47	1.36
29	gB	203	PEB	C3C-C4C	5.03	1.49	1.42
29	gM	203	PEB	C3C-C4C	5.03	1.49	1.42
29	d1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	FB	202	PEB	C3B-C2B	5.03	1.47	1.36
29	dK	201	PEB	C3B-C2B	5.03	1.47	1.36
29	FM	202	PEB	C3B-C2B	5.03	1.47	1.36
29	K5	201	PEB	C3C-C4C	5.03	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	U7	202	PEB	C3C-C4C	5.03	1.49	1.42
29	K8	201	PEB	C3C-C4C	5.03	1.49	1.42
29	U9	202	PEB	C3C-C4C	5.03	1.49	1.42
29	Q1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	HB	202	PEB	C3B-C2B	5.03	1.47	1.36
29	QK	201	PEB	C3B-C2B	5.03	1.47	1.36
29	HM	202	PEB	C3B-C2B	5.03	1.47	1.36
31	D1	1003	CYC	C2A-C3A	5.03	1.47	1.36
29	cB	202	PEB	C3B-C2B	5.03	1.47	1.36
29	cM	202	PEB	C3B-C2B	5.03	1.47	1.36
31	oP	1001	CYC	C3B-C2B	5.03	1.47	1.36
29	W1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	VF	202	PEB	C3B-C2B	5.03	1.47	1.36
29	VI	202	PEB	C3B-C2B	5.03	1.47	1.36
29	WK	201	PEB	C3B-C2B	5.03	1.47	1.36
31	jP	1001	CYC	C3B-C2B	5.03	1.47	1.36
29	Q7	202	PEB	C3C-C4C	5.03	1.49	1.42
29	Q9	202	PEB	C3C-C4C	5.03	1.49	1.42
29	S1	201	PEB	C3B-C2B	5.03	1.47	1.36
29	SK	201	PEB	C3B-C2B	5.03	1.47	1.36
29	l1	201	PEB	C3C-C4C	5.03	1.49	1.42
29	lK	201	PEB	C3C-C4C	5.03	1.49	1.42
29	iB	202	PEB	C3B-C2B	5.03	1.47	1.36
29	iM	202	PEB	C3B-C2B	5.03	1.47	1.36
29	VB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	VM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	gB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	mB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	gM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	mM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	MA	405	PEB	C3C-C4C	5.02	1.49	1.42
29	O1	201	PEB	C3C-C4C	5.02	1.49	1.42
29	OK	201	PEB	C3C-C4C	5.02	1.49	1.42
29	N3	203	PEB	C3B-C2B	5.02	1.47	1.36
29	TB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	TM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	b1	201	PEB	C3C-C4C	5.02	1.49	1.42
29	bK	201	PEB	C3C-C4C	5.02	1.49	1.42
31	FP	1001	CYC	C3B-C2B	5.02	1.47	1.36
29	DB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	DM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	dF	201	PEB	C3B-C2B	5.02	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	dI	201	PEB	C3B-C2B	5.02	1.47	1.36
29	RB	202	PEB	C3B-C2B	5.02	1.47	1.36
29	RM	202	PEB	C3B-C2B	5.02	1.47	1.36
29	b7	202	PEB	C3C-C4C	5.02	1.49	1.42
29	j7	202	PEB	C3C-C4C	5.02	1.49	1.42
29	b9	202	PEB	C3C-C4C	5.02	1.49	1.42
29	j9	202	PEB	C3C-C4C	5.02	1.49	1.42
29	MQ	407	PEB	C3C-C4C	5.02	1.49	1.42
29	Z1	202	PEB	C3C-C4C	5.02	1.49	1.42
29	ZK	202	PEB	C3C-C4C	5.02	1.49	1.42
29	ID	202	PEB	C3B-C2B	5.02	1.47	1.36
31	QP	1001	CYC	C3B-C2B	5.02	1.47	1.36
31	hP	1001	CYC	C3B-C2B	5.02	1.47	1.36
29	GD	202	PEB	C3B-C2B	5.01	1.47	1.36
29	G4	202	PEB	C3B-C2B	5.01	1.47	1.36
29	E4	202	PEB	C3B-C2B	5.01	1.47	1.36
29	ED	201	PEB	C3B-C2B	5.01	1.47	1.36
31	qP	1001	CYC	C3B-C2B	5.01	1.47	1.36
31	E1	1001	CYC	C2A-C3A	5.01	1.47	1.36
29	MG	405	PEB	C3C-C4C	5.01	1.49	1.42
31	sP	1001	CYC	C3B-C2B	5.01	1.47	1.36
29	C8	201	PEB	C3C-C4C	5.01	1.49	1.42
31	K1	1001	CYC	C2A-C3A	5.01	1.47	1.36
31	KK	1001	CYC	C2A-C3A	5.01	1.47	1.36
29	OF	203	PEB	C3B-C2B	5.01	1.47	1.36
29	OI	203	PEB	C3B-C2B	5.01	1.47	1.36
31	1P	1001	CYC	C3B-C2B	5.01	1.47	1.36
29	B8	203	PEB	C3B-C2B	5.01	1.47	1.36
29	wL	302	PEB	C3C-C4C	5.01	1.49	1.42
29	j1	201	PEB	C3B-C2B	5.01	1.47	1.36
29	B5	203	PEB	C3B-C2B	5.01	1.47	1.36
29	YF	202	PEB	C3B-C2B	5.01	1.47	1.36
29	YI	202	PEB	C3B-C2B	5.01	1.47	1.36
29	jK	201	PEB	C3B-C2B	5.01	1.47	1.36
29	C4	202	PEB	C3B-C2B	5.01	1.47	1.36
29	CD	202	PEB	C3B-C2B	5.01	1.47	1.36
31	M1	1001	CYC	C2A-C3A	5.01	1.47	1.36
31	MK	1001	CYC	C2A-C3A	5.01	1.47	1.36
31	SP	1001	CYC	C3B-C2B	5.01	1.47	1.36
31	nP	1001	CYC	C3B-C2B	5.01	1.47	1.36
29	M4	202	PEB	C3B-C2B	5.01	1.47	1.36
29	MD	202	PEB	C3B-C2B	5.01	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	HP	1001	CYC	C3B-C2B	5.01	1.47	1.36
31	wP	1001	CYC	C3B-C2B	5.01	1.47	1.36
29	LB	202	PEB	C3B-C2B	5.00	1.47	1.36
29	LM	202	PEB	C3B-C2B	5.00	1.47	1.36
31	fP	1001	CYC	C3B-C2B	5.00	1.47	1.36
29	aB	203	PEB	C3B-C2B	5.00	1.47	1.36
29	aF	202	PEB	C3B-C2B	5.00	1.47	1.36
29	aI	202	PEB	C3B-C2B	5.00	1.47	1.36
29	aM	203	PEB	C3B-C2B	5.00	1.47	1.36
29	I5	202	PEB	C3B-C2B	5.00	1.47	1.36
29	I8	202	PEB	C3B-C2B	5.00	1.47	1.36
29	KB	203	PEB	C3B-C2B	5.00	1.47	1.36
29	KM	203	PEB	C3B-C2B	5.00	1.47	1.36
29	f7	202	PEB	C3C-C4C	5.00	1.49	1.42
29	f9	202	PEB	C3C-C4C	5.00	1.49	1.42
29	FG	201	PEB	C3C-C4C	5.00	1.49	1.42
29	FQ	201	PEB	C3C-C4C	5.00	1.49	1.42
29	HG	201	PEB	C3C-C4C	5.00	1.49	1.42
29	HQ	201	PEB	C3C-C4C	5.00	1.49	1.42
29	UF	201	PEB	C3B-C2B	5.00	1.47	1.36
29	UI	201	PEB	C3B-C2B	5.00	1.47	1.36
29	gF	202	PEB	C3B-C2B	5.00	1.47	1.36
29	gI	202	PEB	C3B-C2B	5.00	1.47	1.36
29	zJ	501	PEB	C3C-C4C	5.00	1.49	1.42
31	DP	1001	CYC	C3B-C2B	5.00	1.47	1.36
29	HG	202	PEB	C3C-C4C	5.00	1.49	1.42
29	HQ	202	PEB	C3C-C4C	5.00	1.49	1.42
31	kP	1001	CYC	C3B-C2B	5.00	1.47	1.36
29	zL	501	PEB	C3C-C4C	5.00	1.49	1.42
29	J5	201	PEB	C2A-C1A	-4.99	1.47	1.52
29	J8	201	PEB	C2A-C1A	-4.99	1.47	1.52
31	CK	1001	CYC	C2A-C3A	4.99	1.47	1.36
29	W7	202	PEB	C3C-C4C	4.99	1.49	1.42
29	W9	202	PEB	C3C-C4C	4.99	1.49	1.42
29	C5	202	PEB	C3B-C2B	4.99	1.47	1.36
29	C8	202	PEB	C3B-C2B	4.99	1.47	1.36
29	ZB	202	PEB	C3B-C2B	4.99	1.47	1.36
29	ZM	202	PEB	C3B-C2B	4.99	1.47	1.36
29	JG	201	PEB	C3C-C4C	4.99	1.49	1.42
29	JQ	201	PEB	C3C-C4C	4.99	1.49	1.42
29	BB	301	PEB	C3C-C4C	4.99	1.49	1.42
29	BM	301	PEB	C3C-C4C	4.99	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kF	202	PEB	C3B-C2B	4.99	1.47	1.36
29	kI	202	PEB	C3B-C2B	4.99	1.47	1.36
29	h7	202	PEB	C3C-C4C	4.99	1.49	1.42
29	h9	202	PEB	C3C-C4C	4.99	1.49	1.42
29	iF	202	PEB	C3B-C2B	4.99	1.47	1.36
29	iI	202	PEB	C3B-C2B	4.99	1.47	1.36
29	I4	202	PEB	C3B-C2B	4.99	1.47	1.36
29	PF	202	PEB	C3B-C2B	4.99	1.47	1.36
29	PI	202	PEB	C3B-C2B	4.99	1.47	1.36
31	I1	1001	CYC	C2A-C3A	4.99	1.47	1.36
29	xJ	302	PEB	C3C-C4C	4.99	1.49	1.42
31	C1	1001	CYC	C2A-C3A	4.98	1.47	1.36
29	K5	202	PEB	C3B-C2B	4.98	1.47	1.36
29	K8	202	PEB	C3B-C2B	4.98	1.47	1.36
29	I5	201	PEB	C3C-C4C	4.98	1.49	1.42
29	I8	201	PEB	C3C-C4C	4.98	1.49	1.42
31	BP	1001	CYC	C3B-C2B	4.98	1.47	1.36
31	uP	1001	CYC	C3B-C2B	4.98	1.47	1.36
29	DG	201	PEB	C3C-C4C	4.98	1.49	1.42
29	DQ	201	PEB	C3C-C4C	4.98	1.49	1.42
29	QB	202	PEB	C3B-C2B	4.98	1.47	1.36
29	QM	202	PEB	C3B-C2B	4.98	1.47	1.36
29	MN	405	PEB	C3C-C4C	4.98	1.49	1.42
29	BA	202	PEB	C3B-C2B	4.98	1.47	1.36
29	BN	202	PEB	C3B-C2B	4.98	1.47	1.36
29	NO	203	PEB	C3B-C2B	4.98	1.47	1.36
29	O7	202	PEB	C3C-C4C	4.98	1.49	1.42
29	O9	202	PEB	C3C-C4C	4.98	1.49	1.42
31	UP	1001	CYC	C3B-C2B	4.98	1.47	1.36
31	IK	1001	CYC	C2A-C3A	4.98	1.47	1.36
29	eF	202	PEB	C3B-C2B	4.98	1.47	1.36
29	eI	202	PEB	C3B-C2B	4.98	1.47	1.36
31	XP	1001	CYC	C3B-C2B	4.98	1.47	1.36
29	d7	202	PEB	C3C-C4C	4.98	1.49	1.42
29	d9	202	PEB	C3C-C4C	4.98	1.49	1.42
31	EK	1001	CYC	C2A-C3A	4.97	1.47	1.36
29	WF	202	PEB	C3C-C4C	4.97	1.49	1.42
29	WI	202	PEB	C3C-C4C	4.97	1.49	1.42
29	A1	301	PEB	C3C-C4C	4.97	1.49	1.42
29	AK	301	PEB	C3C-C4C	4.97	1.49	1.42
29	Z7	202	PEB	C3C-C4C	4.96	1.49	1.42
29	Z9	202	PEB	C3C-C4C	4.96	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	SF	202	PEB	C3C-C4C	4.96	1.49	1.42
29	SI	202	PEB	C3C-C4C	4.96	1.49	1.42
30	A1	304	PUB	C2B-C1B	4.96	1.49	1.42
30	AK	304	PUB	C2B-C1B	4.96	1.49	1.42
31	IP	1001	CYC	C3B-C2B	4.96	1.47	1.36
29	xL	302	PEB	C3C-C4C	4.96	1.49	1.42
29	M3	203	PEB	C3B-C2B	4.96	1.47	1.36
29	MO	203	PEB	C3B-C2B	4.96	1.47	1.36
29	HA	202	PEB	C3B-C2B	4.96	1.47	1.36
29	LA	202	PEB	C3B-C2B	4.96	1.47	1.36
29	HN	202	PEB	C3B-C2B	4.96	1.47	1.36
29	LN	202	PEB	C3B-C2B	4.96	1.47	1.36
29	l7	202	PEB	C3C-C4C	4.95	1.49	1.42
29	l9	202	PEB	C3C-C4C	4.95	1.49	1.42
29	LG	201	PEB	C3C-C4C	4.95	1.49	1.42
29	MQ	402	PEB	C3C-C4C	4.95	1.49	1.42
29	OF	202	PEB	C3C-C4C	4.95	1.49	1.42
29	BG	201	PEB	C3C-C4C	4.95	1.49	1.42
29	OI	202	PEB	C3C-C4C	4.95	1.49	1.42
29	BQ	201	PEB	C3C-C4C	4.95	1.49	1.42
29	FA	202	PEB	C3B-C2B	4.95	1.47	1.36
29	FN	202	PEB	C3B-C2B	4.95	1.47	1.36
29	AA	202	PEB	C3C-C4C	4.95	1.49	1.42
29	AN	202	PEB	C3C-C4C	4.95	1.49	1.42
29	MQ	403	PEB	C3C-C4C	4.95	1.49	1.42
29	MG	401	PEB	C3C-C4C	4.95	1.49	1.42
30	AB	304	PUB	C2C-C3C	4.95	1.47	1.36
29	dF	203	PEB	C3C-C4C	4.95	1.49	1.42
29	dI	203	PEB	C3C-C4C	4.95	1.49	1.42
29	fF	202	PEB	C3C-C4C	4.95	1.49	1.42
29	fI	202	PEB	C3C-C4C	4.95	1.49	1.42
29	JA	202	PEB	C3B-C2B	4.95	1.47	1.36
29	JN	202	PEB	C3B-C2B	4.95	1.47	1.36
29	hF	202	PEB	C3C-C4C	4.95	1.49	1.42
29	hI	202	PEB	C3C-C4C	4.95	1.49	1.42
29	bF	202	PEB	C3C-C4C	4.94	1.49	1.42
29	bI	202	PEB	C3C-C4C	4.94	1.49	1.42
31	J1	1001	CYC	C2A-C3A	4.94	1.47	1.36
31	JK	1001	CYC	C2A-C3A	4.94	1.47	1.36
29	BG	202	PEB	C3C-C4C	4.94	1.49	1.42
29	BQ	202	PEB	C3C-C4C	4.94	1.49	1.42
29	HK	1002	PEB	C3C-C4C	4.94	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JG	202	PEB	C3C-C4C	4.94	1.49	1.42
29	JQ	202	PEB	C3C-C4C	4.94	1.49	1.42
31	DK	1001	CYC	C2A-C3A	4.94	1.47	1.36
31	D1	1001	CYC	C2A-C3A	4.94	1.47	1.36
29	AF	301	PEB	C3C-C4C	4.94	1.49	1.42
29	AI	301	PEB	C3C-C4C	4.94	1.49	1.42
29	i1	202	PEB	C3B-C2B	4.94	1.47	1.36
29	iK	202	PEB	C3B-C2B	4.94	1.47	1.36
29	V1	202	PEB	C3B-C2B	4.94	1.47	1.36
29	VK	202	PEB	C3B-C2B	4.94	1.47	1.36
29	GC	202	PEB	C3C-C4C	4.94	1.49	1.42
29	GE	202	PEB	C3C-C4C	4.94	1.49	1.42
29	UF	203	PEB	C3C-C4C	4.93	1.49	1.42
29	UI	203	PEB	C3C-C4C	4.93	1.49	1.42
29	Z1	201	PEB	C3B-C2B	4.93	1.47	1.36
29	e1	202	PEB	C3B-C2B	4.93	1.47	1.36
29	ZK	201	PEB	C3B-C2B	4.93	1.47	1.36
29	eK	202	PEB	C3B-C2B	4.93	1.47	1.36
29	lF	202	PEB	C3C-C4C	4.93	1.49	1.42
29	lI	202	PEB	C3C-C4C	4.93	1.49	1.42
29	FG	202	PEB	C3C-C4C	4.93	1.49	1.42
29	FQ	202	PEB	C3C-C4C	4.93	1.49	1.42
31	F1	1001	CYC	C2A-C3A	4.93	1.47	1.36
31	FK	1001	CYC	C2A-C3A	4.93	1.47	1.36
29	AC	202	PEB	C3C-C4C	4.93	1.49	1.42
29	AE	202	PEB	C3C-C4C	4.93	1.49	1.42
29	L1	1002	PEB	C3C-C4C	4.93	1.49	1.42
29	LK	1002	PEB	C3C-C4C	4.93	1.49	1.42
30	AM	304	PUB	C2C-C3C	4.93	1.47	1.36
29	N1	1002	PEB	C3C-C4C	4.92	1.49	1.42
31	N1	1001	CYC	C2A-C3A	4.92	1.47	1.36
29	DA	202	PEB	C3B-C2B	4.92	1.47	1.36
29	DN	202	PEB	C3B-C2B	4.92	1.47	1.36
29	NK	1002	PEB	C3C-C4C	4.92	1.49	1.42
29	H1	1002	PEB	C3C-C4C	4.92	1.49	1.42
29	A7	301	PEB	C3C-C4C	4.92	1.49	1.42
29	A9	301	PEB	C3C-C4C	4.92	1.49	1.42
31	NK	1001	CYC	C2A-C3A	4.92	1.47	1.36
31	DF	1001	CYC	C2A-C3A	4.92	1.47	1.36
31	DI	1001	CYC	C2A-C3A	4.92	1.47	1.36
29	B3	201	PEB	C3C-C4C	4.92	1.49	1.42
29	BO	201	PEB	C3C-C4C	4.92	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	U1	201	PEB	C3B-C2B	4.92	1.47	1.36
29	UK	201	PEB	C3B-C2B	4.92	1.47	1.36
31	HK	1001	CYC	C2A-C3A	4.92	1.47	1.36
29	QF	202	PEB	C3C-C4C	4.91	1.49	1.42
29	QI	202	PEB	C3C-C4C	4.91	1.49	1.42
29	IC	202	PEB	C3C-C4C	4.91	1.49	1.42
29	IE	202	PEB	C3C-C4C	4.91	1.49	1.42
29	KA	202	PEB	C3C-C4C	4.91	1.49	1.42
29	KN	202	PEB	C3C-C4C	4.91	1.49	1.42
29	D1	1002	PEB	C3C-C4C	4.91	1.49	1.42
31	L1	1001	CYC	C2A-C3A	4.91	1.47	1.36
31	LK	1001	CYC	C2A-C3A	4.91	1.47	1.36
29	c1	202	PEB	C3B-C2B	4.91	1.47	1.36
29	g1	202	PEB	C3B-C2B	4.91	1.47	1.36
29	cK	202	PEB	C3B-C2B	4.91	1.47	1.36
29	gK	202	PEB	C3B-C2B	4.91	1.47	1.36
31	HF	1001	CYC	C2A-C3A	4.91	1.47	1.36
31	HI	1001	CYC	C2A-C3A	4.91	1.47	1.36
29	CC	202	PEB	C3C-C4C	4.91	1.49	1.42
29	CE	202	PEB	C3C-C4C	4.91	1.49	1.42
29	DG	202	PEB	C3C-C4C	4.91	1.49	1.42
29	DQ	202	PEB	C3C-C4C	4.91	1.49	1.42
29	GG	201	PEB	C3B-C2B	4.91	1.47	1.36
29	GQ	201	PEB	C3B-C2B	4.91	1.47	1.36
29	j1	203	PEB	C3B-C2B	4.90	1.47	1.36
29	jK	203	PEB	C3B-C2B	4.90	1.47	1.36
29	LG	202	PEB	C3C-C4C	4.90	1.49	1.42
29	LQ	201	PEB	C3C-C4C	4.90	1.49	1.42
29	e2	401	PEB	CHB-C4B	4.90	1.39	1.35
29	R1	202	PEB	C3B-C2B	4.90	1.47	1.36
29	RK	202	PEB	C3B-C2B	4.90	1.47	1.36
29	FG	202	PEB	C3B-C2B	4.90	1.47	1.36
29	FQ	202	PEB	C3B-C2B	4.90	1.47	1.36
29	a1	202	PEB	C3B-C2B	4.90	1.47	1.36
29	aK	202	PEB	C3B-C2B	4.90	1.47	1.36
29	EC	202	PEB	C3C-C4C	4.90	1.49	1.42
29	EE	202	PEB	C3C-C4C	4.90	1.49	1.42
29	EA	202	PEB	C3C-C4C	4.90	1.49	1.42
29	EN	202	PEB	C3C-C4C	4.90	1.49	1.42
29	P1	202	PEB	C3B-C2B	4.90	1.47	1.36
29	PK	202	PEB	C3B-C2B	4.90	1.47	1.36
31	LF	1001	CYC	C2A-C3A	4.90	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	LI	1001	CYC	C2A-C3A	4.90	1.47	1.36
29	e7	203	PEB	C3C-C4C	4.90	1.49	1.42
29	e9	203	PEB	C3C-C4C	4.90	1.49	1.42
29	jF	202	PEB	C3C-C4C	4.90	1.49	1.42
29	jI	202	PEB	C3C-C4C	4.90	1.49	1.42
29	DG	202	PEB	C3B-C2B	4.90	1.47	1.36
29	DQ	202	PEB	C3B-C2B	4.90	1.47	1.36
29	P7	203	PEB	C3C-C4C	4.90	1.49	1.42
29	P9	203	PEB	C3C-C4C	4.90	1.49	1.42
29	CA	201	PEB	C3B-C2B	4.90	1.47	1.36
29	CN	201	PEB	C3B-C2B	4.90	1.47	1.36
31	JF	1001	CYC	C2A-C3A	4.90	1.47	1.36
31	JI	1001	CYC	C2A-C3A	4.90	1.47	1.36
31	NF	1001	CYC	C2A-C3A	4.90	1.47	1.36
31	NI	1001	CYC	C2A-C3A	4.90	1.47	1.36
29	AG	201	PEB	C3B-C2B	4.89	1.47	1.36
29	AQ	201	PEB	C3B-C2B	4.89	1.47	1.36
29	H3	201	PEB	C3C-C4C	4.89	1.49	1.42
29	HO	201	PEB	C3C-C4C	4.89	1.49	1.42
29	AB	301	PEB	C3C-C4C	4.89	1.49	1.42
29	DK	1002	PEB	C3C-C4C	4.89	1.49	1.42
31	H1	1001	CYC	C2A-C3A	4.89	1.47	1.36
29	EG	201	PEB	C3B-C2B	4.89	1.47	1.36
29	EQ	201	PEB	C3B-C2B	4.89	1.47	1.36
29	A1	303	PEB	C3C-C4C	4.89	1.49	1.42
29	AK	303	PEB	C3C-C4C	4.89	1.49	1.42
29	B5	201	PEB	C3C-C4C	4.88	1.49	1.42
29	SR	201	PEB	C3C-C4C	4.88	1.49	1.42
29	CG	201	PEB	C3B-C2B	4.88	1.47	1.36
29	CQ	201	PEB	C3B-C2B	4.88	1.47	1.36
29	KC	203	PEB	C3C-C4C	4.88	1.49	1.42
29	KE	203	PEB	C3C-C4C	4.88	1.49	1.42
29	k1	202	PEB	C3B-C2B	4.88	1.47	1.36
29	LG	202	PEB	C3B-C2B	4.88	1.47	1.36
29	kK	202	PEB	C3B-C2B	4.88	1.47	1.36
29	LQ	201	PEB	C3B-C2B	4.88	1.47	1.36
31	FF	1001	CYC	C2A-C3A	4.88	1.47	1.36
31	FI	1001	CYC	C2A-C3A	4.88	1.47	1.36
29	F1	1002	PEB	C3C-C4C	4.88	1.49	1.42
29	FK	1002	PEB	C3C-C4C	4.88	1.49	1.42
29	IG	201	PEB	C3B-C2B	4.88	1.47	1.36
29	IQ	201	PEB	C3B-C2B	4.88	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KG	201	PEB	C3B-C2B	4.87	1.47	1.36
29	KQ	201	PEB	C3B-C2B	4.87	1.47	1.36
29	ZF	202	PEB	C3C-C4C	4.87	1.49	1.42
29	ZI	202	PEB	C3C-C4C	4.87	1.49	1.42
29	JG	202	PEB	C3B-C2B	4.87	1.47	1.36
29	JQ	202	PEB	C3B-C2B	4.87	1.47	1.36
29	J1	1002	PEB	C3C-C4C	4.87	1.49	1.42
29	JK	1002	PEB	C3C-C4C	4.87	1.49	1.42
29	k7	203	PEB	C3C-C4C	4.87	1.49	1.42
29	k9	203	PEB	C3C-C4C	4.87	1.49	1.42
29	F3	201	PEB	C3C-C4C	4.87	1.49	1.42
29	G5	201	PEB	C3C-C4C	4.87	1.49	1.42
29	FO	201	PEB	C3C-C4C	4.87	1.49	1.42
29	R7	203	PEB	C3C-C4C	4.86	1.49	1.42
29	Y7	203	PEB	C3C-C4C	4.86	1.49	1.42
29	R9	203	PEB	C3C-C4C	4.86	1.49	1.42
29	Y9	203	PEB	C3C-C4C	4.86	1.49	1.42
29	eR	401	PEB	CHB-C4B	4.86	1.39	1.35
29	g7	203	PEB	C3C-C4C	4.86	1.49	1.42
29	g9	203	PEB	C3C-C4C	4.86	1.49	1.42
29	LJ	202	PEB	C3B-C2B	4.86	1.47	1.36
29	LL	202	PEB	C3B-C2B	4.86	1.47	1.36
29	m7	203	PEB	C3C-C4C	4.86	1.49	1.42
29	m9	203	PEB	C3C-C4C	4.86	1.49	1.42
31	F1	1001	CYC	CHB-C1B	4.86	1.49	1.38
31	FK	1001	CYC	CHB-C1B	4.86	1.49	1.38
29	T7	203	PEB	C3C-C4C	4.85	1.49	1.42
29	T9	203	PEB	C3C-C4C	4.85	1.49	1.42
29	J3	201	PEB	C3C-C4C	4.85	1.49	1.42
29	JO	201	PEB	C3C-C4C	4.85	1.49	1.42
29	HG	202	PEB	C3B-C2B	4.85	1.47	1.36
29	HQ	202	PEB	C3B-C2B	4.85	1.47	1.36
29	BG	202	PEB	C3B-C2B	4.85	1.47	1.36
29	BQ	202	PEB	C3B-C2B	4.85	1.47	1.36
29	CA	202	PEB	C3C-C4C	4.85	1.49	1.42
29	CN	202	PEB	C3C-C4C	4.85	1.49	1.42
29	L8	201	PEB	C3C-C4C	4.85	1.49	1.42
29	a7	203	PEB	C3C-C4C	4.85	1.49	1.42
29	a9	203	PEB	C3C-C4C	4.85	1.49	1.42
31	NK	1001	CYC	CHB-C1B	4.85	1.49	1.38
29	V7	203	PEB	C3C-C4C	4.85	1.49	1.42
29	V9	203	PEB	C3C-C4C	4.85	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B8	201	PEB	C3C-C4C	4.85	1.49	1.42
31	L1	1001	CYC	CHB-C1B	4.85	1.49	1.38
31	LK	1001	CYC	CHB-C1B	4.85	1.49	1.38
29	D3	201	PEB	C3C-C4C	4.85	1.49	1.42
29	J5	201	PEB	C3C-C4C	4.85	1.49	1.42
29	J8	201	PEB	C3C-C4C	4.85	1.49	1.42
29	GA	202	PEB	C3C-C4C	4.85	1.49	1.42
29	GN	202	PEB	C3C-C4C	4.85	1.49	1.42
29	DO	201	PEB	C3C-C4C	4.85	1.49	1.42
29	kB	202	PEB	C3C-C4C	4.84	1.49	1.42
29	kM	202	PEB	C3C-C4C	4.84	1.49	1.42
29	mB	202	PEB	C3C-C4C	4.84	1.49	1.42
29	mM	202	PEB	C3C-C4C	4.84	1.49	1.42
29	AM	301	PEB	C3C-C4C	4.84	1.49	1.42
29	BJ	203	PEB	C3B-C2B	4.84	1.47	1.36
29	BL	203	PEB	C3B-C2B	4.84	1.47	1.36
29	c7	203	PEB	C3C-C4C	4.84	1.49	1.42
29	c9	203	PEB	C3C-C4C	4.84	1.49	1.42
29	I4	201	PEB	C3B-C2B	4.84	1.47	1.36
31	KI	1001	CYC	C2A-C3A	4.84	1.47	1.36
31	D1	1001	CYC	CHB-C1B	4.84	1.49	1.38
29	G8	201	PEB	C3C-C4C	4.84	1.49	1.42
31	N1	1001	CYC	CHB-C1B	4.84	1.49	1.38
29	aB	203	PEB	C3C-C4C	4.84	1.49	1.42
29	aM	203	PEB	C3C-C4C	4.84	1.49	1.42
29	ZJ	203	PEB	C3B-C2B	4.84	1.47	1.36
29	ZL	203	PEB	C3B-C2B	4.84	1.47	1.36
29	L3	201	PEB	C3C-C4C	4.83	1.49	1.42
29	LO	201	PEB	C3C-C4C	4.83	1.49	1.42
29	C4	201	PEB	C3B-C2B	4.83	1.47	1.36
29	TJ	203	PEB	C3B-C2B	4.83	1.47	1.36
29	TL	203	PEB	C3B-C2B	4.83	1.47	1.36
29	TR	203	PEB	C3C-C4C	4.83	1.49	1.42
31	DK	1001	CYC	CHB-C1B	4.83	1.49	1.38
29	XJ	203	PEB	C3B-C2B	4.83	1.47	1.36
29	XL	203	PEB	C3B-C2B	4.83	1.47	1.36
29	QB	202	PEB	C3C-C4C	4.83	1.49	1.42
29	QM	202	PEB	C3C-C4C	4.83	1.49	1.42
29	VJ	202	PEB	C3B-C2B	4.83	1.47	1.36
29	VL	202	PEB	C3B-C2B	4.83	1.47	1.36
29	jJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	jL	203	PEB	C3B-C2B	4.82	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MD	201	PEB	C3B-C2B	4.82	1.47	1.36
29	P2	201	PEB	C3B-C2B	4.82	1.47	1.36
29	ID	201	PEB	C3B-C2B	4.82	1.47	1.36
29	VB	202	PEB	C3C-C4C	4.82	1.49	1.42
29	VM	202	PEB	C3C-C4C	4.82	1.49	1.42
29	iB	202	PEB	C3C-C4C	4.82	1.49	1.42
29	iM	202	PEB	C3C-C4C	4.82	1.49	1.42
29	KA	201	PEB	C3B-C2B	4.82	1.47	1.36
29	KN	201	PEB	C3B-C2B	4.82	1.47	1.36
29	HB	202	PEB	C3C-C4C	4.82	1.49	1.42
29	HM	202	PEB	C3C-C4C	4.82	1.49	1.42
29	bJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	dJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	bL	203	PEB	C3B-C2B	4.82	1.47	1.36
29	dL	203	PEB	C3B-C2B	4.82	1.47	1.36
29	hJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	hL	203	PEB	C3B-C2B	4.82	1.47	1.36
29	F5	201	PEB	C3C-C4C	4.82	1.49	1.42
29	F8	201	PEB	C3C-C4C	4.82	1.49	1.42
29	IA	202	PEB	C3C-C4C	4.82	1.49	1.42
29	IN	202	PEB	C3C-C4C	4.82	1.49	1.42
29	dD	401	PEB	C3B-C2B	4.82	1.47	1.36
29	pJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	pL	203	PEB	C3B-C2B	4.82	1.47	1.36
29	PJ	203	PEB	C3B-C2B	4.82	1.47	1.36
29	PL	203	PEB	C3B-C2B	4.82	1.47	1.36
29	i7	203	PEB	C3C-C4C	4.82	1.49	1.42
29	i9	203	PEB	C3C-C4C	4.82	1.49	1.42
29	AA	201	PEB	C3B-C2B	4.82	1.47	1.36
29	AN	201	PEB	C3B-C2B	4.82	1.47	1.36
29	GA	201	PEB	C3B-C2B	4.82	1.47	1.36
29	GN	201	PEB	C3B-C2B	4.82	1.47	1.36
29	V2	202	PEB	C3B-C2B	4.81	1.47	1.36
31	MF	1001	CYC	C2A-C3A	4.81	1.47	1.36
31	MI	1001	CYC	C2A-C3A	4.81	1.47	1.36
29	VR	202	PEB	C3B-C2B	4.81	1.47	1.36
29	EA	201	PEB	C3B-C2B	4.81	1.47	1.36
29	EN	201	PEB	C3B-C2B	4.81	1.47	1.36
31	KF	1001	CYC	C2A-C3A	4.81	1.47	1.36
29	L5	201	PEB	C3C-C4C	4.81	1.49	1.42
31	HK	1001	CYC	CHB-C1B	4.81	1.49	1.38
29	vJ	202	PEB	C3B-C2B	4.81	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	vL	202	PEB	C3B-C2B	4.81	1.47	1.36
29	LB	202	PEB	C3C-C4C	4.81	1.49	1.42
29	LM	202	PEB	C3C-C4C	4.81	1.49	1.42
29	DJ	202	PEB	C3B-C2B	4.81	1.47	1.36
29	tJ	202	PEB	C3B-C2B	4.81	1.47	1.36
29	DL	202	PEB	C3B-C2B	4.81	1.47	1.36
29	tL	202	PEB	C3B-C2B	4.81	1.47	1.36
29	FJ	203	PEB	C3B-C2B	4.81	1.47	1.36
29	JJ	203	PEB	C3B-C2B	4.81	1.47	1.36
29	FL	203	PEB	C3B-C2B	4.81	1.47	1.36
29	JL	203	PEB	C3B-C2B	4.81	1.47	1.36
31	J1	1001	CYC	CHB-C1B	4.81	1.49	1.38
31	JK	1001	CYC	CHB-C1B	4.81	1.49	1.38
29	lJ	203	PEB	C3B-C2B	4.81	1.46	1.36
29	lL	203	PEB	C3B-C2B	4.81	1.46	1.36
29	cB	202	PEB	C3C-C4C	4.81	1.49	1.42
29	cM	202	PEB	C3C-C4C	4.81	1.49	1.42
29	nJ	203	PEB	C3B-C2B	4.81	1.46	1.36
29	nL	203	PEB	C3B-C2B	4.81	1.46	1.36
29	IA	201	PEB	C3B-C2B	4.81	1.46	1.36
29	CD	201	PEB	C3B-C2B	4.81	1.46	1.36
29	IN	201	PEB	C3B-C2B	4.81	1.46	1.36
29	N2	202	PEB	C3B-C2B	4.81	1.46	1.36
29	AG	201	PEB	C3C-C4C	4.81	1.49	1.42
29	AQ	201	PEB	C3C-C4C	4.81	1.49	1.42
31	EF	1001	CYC	C2A-C3A	4.80	1.46	1.36
31	GF	1001	CYC	C2A-C3A	4.80	1.46	1.36
31	EI	1001	CYC	C2A-C3A	4.80	1.46	1.36
31	GI	1001	CYC	C2A-C3A	4.80	1.46	1.36
31	H1	1001	CYC	CHB-C1B	4.80	1.49	1.38
29	RJ	203	PEB	C3B-C2B	4.80	1.46	1.36
29	RL	203	PEB	C3B-C2B	4.80	1.46	1.36
29	E4	201	PEB	C3B-C2B	4.80	1.46	1.36
29	N2	203	PEB	C3C-C4C	4.80	1.49	1.42
29	rJ	203	PEB	C3B-C2B	4.80	1.46	1.36
29	rL	203	PEB	C3B-C2B	4.80	1.46	1.36
29	NJ	203	PEB	C3B-C2B	4.80	1.46	1.36
29	NL	203	PEB	C3B-C2B	4.80	1.46	1.36
29	M4	201	PEB	C3B-C2B	4.80	1.46	1.36
29	DB	202	PEB	C3C-C4C	4.80	1.49	1.42
29	ZB	202	PEB	C3C-C4C	4.80	1.49	1.42
29	DM	202	PEB	C3C-C4C	4.80	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	ZM	202	PEB	C3C-C4C	4.80	1.49	1.42
31	CF	1001	CYC	C2A-C3A	4.80	1.46	1.36
31	CI	1001	CYC	C2A-C3A	4.80	1.46	1.36
29	RB	202	PEB	C3C-C4C	4.80	1.49	1.42
29	RM	202	PEB	C3C-C4C	4.80	1.49	1.42
29	TB	202	PEB	C3C-C4C	4.79	1.49	1.42
29	TM	202	PEB	C3C-C4C	4.79	1.49	1.42
29	JB	202	PEB	C3C-C4C	4.79	1.49	1.42
29	KB	203	PEB	C3C-C4C	4.79	1.49	1.42
29	JM	202	PEB	C3C-C4C	4.79	1.49	1.42
29	KM	203	PEB	C3C-C4C	4.79	1.49	1.42
29	YB	201	PEB	C3C-C4C	4.79	1.49	1.42
29	YM	201	PEB	C3C-C4C	4.79	1.49	1.42
29	PR	201	PEB	C3B-C2B	4.79	1.46	1.36
29	B4	202	PEB	C3B-C2B	4.78	1.46	1.36
29	H5	201	PEB	C3C-C4C	4.78	1.49	1.42
29	W2	202	PEB	C3C-C4C	4.78	1.49	1.42
29	FB	202	PEB	C3C-C4C	4.78	1.49	1.42
29	FM	202	PEB	C3C-C4C	4.78	1.49	1.42
29	I3	201	PEB	C3B-C2B	4.78	1.46	1.36
29	IO	201	PEB	C3B-C2B	4.78	1.46	1.36
29	X2	201	PEB	C3B-C2B	4.78	1.46	1.36
29	XR	202	PEB	C3B-C2B	4.78	1.46	1.36
29	nJ	201	PEB	C3C-C4C	4.78	1.49	1.42
29	nL	201	PEB	C3C-C4C	4.78	1.49	1.42
29	C3	201	PEB	C3B-C2B	4.78	1.46	1.36
29	CO	201	PEB	C3B-C2B	4.78	1.46	1.36
29	HJ	202	PEB	C3B-C2B	4.78	1.46	1.36
29	HL	202	PEB	C3B-C2B	4.78	1.46	1.36
29	TR	202	PEB	C3B-C2B	4.78	1.46	1.36
29	KG	201	PEB	C3C-C4C	4.77	1.49	1.42
29	KQ	201	PEB	C3C-C4C	4.77	1.49	1.42
29	RR	203	PEB	C3C-C4C	4.77	1.49	1.42
29	T2	202	PEB	C3B-C2B	4.77	1.46	1.36
29	NR	202	PEB	C3B-C2B	4.77	1.46	1.36
29	K4	201	PEB	C3B-C2B	4.77	1.46	1.36
29	KD	201	PEB	C3B-C2B	4.77	1.46	1.36
29	fJ	203	PEB	C3B-C2B	4.77	1.46	1.36
29	fL	203	PEB	C3B-C2B	4.77	1.46	1.36
29	QR	202	PEB	CHA-C1B	4.77	1.51	1.40
29	H8	201	PEB	C3C-C4C	4.76	1.49	1.42
29	GD	201	PEB	C3B-C2B	4.76	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D4	202	PEB	C3B-C2B	4.76	1.46	1.36
29	A3	201	PEB	C3B-C2B	4.76	1.46	1.36
29	AO	201	PEB	C3B-C2B	4.76	1.46	1.36
29	BD	202	PEB	C3B-C2B	4.76	1.46	1.36
29	GG	201	PEB	C3C-C4C	4.76	1.49	1.42
29	GQ	201	PEB	C3C-C4C	4.76	1.49	1.42
29	T2	203	PEB	C3C-C4C	4.76	1.49	1.42
29	RR	202	PEB	C3B-C2B	4.76	1.46	1.36
29	gB	202	PEB	C3C-C4C	4.76	1.49	1.42
29	gM	202	PEB	C3C-C4C	4.76	1.49	1.42
29	R2	203	PEB	C3C-C4C	4.76	1.49	1.42
30	wL	304	PUB	C2B-C1B	4.76	1.49	1.42
29	tJ	201	PEB	C3C-C4C	4.76	1.49	1.42
29	tL	201	PEB	C3C-C4C	4.76	1.49	1.42
31	IF	1001	CYC	C2A-C3A	4.76	1.46	1.36
31	II	1001	CYC	C2A-C3A	4.76	1.46	1.36
29	VR	203	PEB	C3C-C4C	4.75	1.49	1.42
29	O2	202	PEB	C3C-C4C	4.75	1.49	1.42
29	dJ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	dL	201	PEB	C3C-C4C	4.75	1.49	1.42
29	IG	201	PEB	C3C-C4C	4.75	1.49	1.42
29	IQ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	G3	201	PEB	C3B-C2B	4.75	1.46	1.36
29	G4	201	PEB	C3B-C2B	4.75	1.46	1.36
29	GO	201	PEB	C3B-C2B	4.75	1.46	1.36
29	vJ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	vL	201	PEB	C3C-C4C	4.75	1.49	1.42
29	EG	201	PEB	C3C-C4C	4.75	1.49	1.42
29	EQ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	RJ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	RL	201	PEB	C3C-C4C	4.75	1.49	1.42
29	hJ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	hL	201	PEB	C3C-C4C	4.75	1.49	1.42
29	bJ	201	PEB	C3C-C4C	4.75	1.49	1.42
29	bL	201	PEB	C3C-C4C	4.75	1.49	1.42
29	X2	202	PEB	C3C-C4C	4.74	1.49	1.42
29	XR	203	PEB	C3C-C4C	4.74	1.49	1.42
29	FJ	201	PEB	C3C-C4C	4.74	1.49	1.42
29	FL	201	PEB	C3C-C4C	4.74	1.49	1.42
29	NR	203	PEB	C3C-C4C	4.74	1.49	1.42
29	K3	201	PEB	C3B-C2B	4.74	1.46	1.36
29	KO	201	PEB	C3B-C2B	4.74	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	E3	201	PEB	C3B-C2B	4.74	1.46	1.36
29	EO	201	PEB	C3B-C2B	4.74	1.46	1.36
29	L4	202	PEB	C3B-C2B	4.74	1.46	1.36
29	M3	202	PEB	C3C-C4C	4.74	1.49	1.42
29	MO	202	PEB	C3C-C4C	4.74	1.49	1.42
30	wJ	304	PUB	C2B-C1B	4.74	1.49	1.42
29	N3	202	PEB	C3C-C4C	4.74	1.49	1.42
29	R2	202	PEB	C3B-C2B	4.74	1.46	1.36
29	H4	202	PEB	C3B-C2B	4.74	1.46	1.36
29	F4	202	PEB	C3B-C2B	4.73	1.46	1.36
29	P2	202	PEB	C3C-C4C	4.73	1.49	1.42
29	jJ	201	PEB	C3C-C4C	4.73	1.49	1.42
29	jL	201	PEB	C3C-C4C	4.73	1.49	1.42
29	NO	202	PEB	C3C-C4C	4.73	1.49	1.42
29	PR	202	PEB	C3C-C4C	4.73	1.49	1.42
29	HA	203	PEB	C3B-C2B	4.73	1.46	1.36
29	HN	203	PEB	C3B-C2B	4.73	1.46	1.36
29	CG	201	PEB	C3C-C4C	4.73	1.49	1.42
29	CQ	201	PEB	C3C-C4C	4.73	1.49	1.42
29	m7	201	PEB	C3B-C2B	4.73	1.46	1.36
29	m9	201	PEB	C3B-C2B	4.73	1.46	1.36
29	U2	202	PEB	CHA-C1B	4.73	1.51	1.40
29	wL	303	PEB	C3C-C4C	4.73	1.49	1.42
29	lJ	201	PEB	C3C-C4C	4.73	1.49	1.42
29	lL	201	PEB	C3C-C4C	4.73	1.49	1.42
29	rJ	201	PEB	C3C-C4C	4.73	1.49	1.42
29	rL	201	PEB	C3C-C4C	4.73	1.49	1.42
29	Y7	201	PEB	C3B-C2B	4.73	1.46	1.36
29	Y9	201	PEB	C3B-C2B	4.73	1.46	1.36
29	wJ	303	PEB	C3C-C4C	4.73	1.49	1.42
29	LD	202	PEB	C3B-C2B	4.73	1.46	1.36
29	V2	203	PEB	C3C-C4C	4.72	1.49	1.42
29	J5	202	PEB	C3B-C2B	4.72	1.46	1.36
29	J8	202	PEB	C3B-C2B	4.72	1.46	1.36
29	c7	201	PEB	C3B-C2B	4.72	1.46	1.36
29	c9	201	PEB	C3B-C2B	4.72	1.46	1.36
29	TJ	201	PEB	C3C-C4C	4.72	1.49	1.42
29	TL	201	PEB	C3C-C4C	4.72	1.49	1.42
29	pJ	201	PEB	C3C-C4C	4.72	1.49	1.42
29	pL	201	PEB	C3C-C4C	4.72	1.49	1.42
29	g7	201	PEB	C3B-C2B	4.72	1.46	1.36
29	g9	201	PEB	C3B-C2B	4.72	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	R7	201	PEB	C3B-C2B	4.72	1.46	1.36
29	R9	201	PEB	C3B-C2B	4.72	1.46	1.36
29	c7	201	PEB	C3C-C4C	4.72	1.49	1.42
29	c9	201	PEB	C3C-C4C	4.72	1.49	1.42
29	PJ	201	PEB	C3C-C4C	4.72	1.49	1.42
29	PL	201	PEB	C3C-C4C	4.72	1.49	1.42
29	V7	201	PEB	C3B-C2B	4.72	1.46	1.36
29	V9	201	PEB	C3B-C2B	4.72	1.46	1.36
29	Q2	202	PEB	C3C-C4C	4.72	1.49	1.42
29	J4	202	PEB	C3B-C2B	4.72	1.46	1.36
29	LA	203	PEB	C3B-C2B	4.72	1.46	1.36
29	DD	202	PEB	C3B-C2B	4.72	1.46	1.36
29	LN	203	PEB	C3B-C2B	4.72	1.46	1.36
29	W2	202	PEB	CHA-C1B	4.72	1.51	1.40
29	XJ	201	PEB	C3C-C4C	4.72	1.49	1.42
29	XL	201	PEB	C3C-C4C	4.72	1.49	1.42
29	BA	203	PEB	C3B-C2B	4.72	1.46	1.36
29	BN	203	PEB	C3B-C2B	4.72	1.46	1.36
29	WR	202	PEB	C3C-C4C	4.72	1.49	1.42
29	FA	203	PEB	C3B-C2B	4.72	1.46	1.36
29	FN	203	PEB	C3B-C2B	4.72	1.46	1.36
29	P7	201	PEB	C3B-C2B	4.71	1.46	1.36
29	P9	201	PEB	C3B-C2B	4.71	1.46	1.36
29	VJ	201	PEB	C3C-C4C	4.71	1.49	1.42
29	VL	201	PEB	C3C-C4C	4.71	1.49	1.42
29	M2	202	PEB	CHA-C1B	4.71	1.51	1.40
29	NJ	201	PEB	C3C-C4C	4.71	1.49	1.42
29	NL	201	PEB	C3C-C4C	4.71	1.49	1.42
29	HD	202	PEB	C3B-C2B	4.71	1.46	1.36
29	S2	202	PEB	CHA-C1B	4.71	1.51	1.40
29	UR	202	PEB	CHA-C1B	4.70	1.51	1.40
29	a7	201	PEB	C3C-C4C	4.70	1.49	1.42
29	a9	201	PEB	C3C-C4C	4.70	1.49	1.42
29	V7	201	PEB	C3C-C4C	4.70	1.49	1.42
29	V9	201	PEB	C3C-C4C	4.70	1.49	1.42
29	LJ	201	PEB	C3C-C4C	4.70	1.49	1.42
29	LL	201	PEB	C3C-C4C	4.70	1.49	1.42
29	QR	202	PEB	C3C-C4C	4.70	1.49	1.42
30	xJ	304	PUB	C2B-C1B	4.70	1.49	1.42
29	SR	202	PEB	CHA-C1B	4.70	1.51	1.40
29	m7	201	PEB	C3C-C4C	4.70	1.49	1.42
29	m9	201	PEB	C3C-C4C	4.70	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	a7	201	PEB	C3B-C2B	4.70	1.46	1.36
29	a9	201	PEB	C3B-C2B	4.70	1.46	1.36
29	g7	201	PEB	C3C-C4C	4.70	1.49	1.42
29	g9	201	PEB	C3C-C4C	4.70	1.49	1.42
29	P7	201	PEB	C3C-C4C	4.69	1.49	1.42
29	P9	201	PEB	C3C-C4C	4.69	1.49	1.42
29	JJ	201	PEB	C3C-C4C	4.69	1.49	1.42
29	JL	201	PEB	C3C-C4C	4.69	1.49	1.42
29	UR	202	PEB	C3C-C4C	4.69	1.49	1.42
29	BJ	201	PEB	C3C-C4C	4.69	1.49	1.42
29	ZJ	201	PEB	C3C-C4C	4.69	1.49	1.42
29	BL	201	PEB	C3C-C4C	4.69	1.49	1.42
29	ZL	201	PEB	C3C-C4C	4.69	1.49	1.42
29	DA	203	PEB	C3B-C2B	4.69	1.46	1.36
29	DN	203	PEB	C3B-C2B	4.69	1.46	1.36
29	O2	202	PEB	CHA-C1B	4.69	1.51	1.40
29	N2	201	PEB	C3C-C4C	4.69	1.49	1.42
29	k7	201	PEB	C3B-C2B	4.69	1.46	1.36
29	k9	201	PEB	C3B-C2B	4.69	1.46	1.36
30	A7	303	PUB	C2B-C1B	4.69	1.49	1.42
30	A9	303	PUB	C2B-C1B	4.69	1.49	1.42
29	WR	202	PEB	CHA-C1B	4.69	1.51	1.40
29	i7	201	PEB	C3B-C2B	4.69	1.46	1.36
29	i9	201	PEB	C3B-C2B	4.69	1.46	1.36
29	xL	303	PEB	C3C-C4C	4.69	1.49	1.42
29	e7	201	PEB	C3B-C2B	4.69	1.46	1.36
29	e9	201	PEB	C3B-C2B	4.69	1.46	1.36
29	M2	202	PEB	C3C-C4C	4.69	1.49	1.42
29	e7	201	PEB	C3C-C4C	4.69	1.49	1.42
29	e9	201	PEB	C3C-C4C	4.69	1.49	1.42
29	T7	201	PEB	C3B-C2B	4.69	1.46	1.36
29	T9	201	PEB	C3B-C2B	4.69	1.46	1.36
29	DJ	201	PEB	C3C-C4C	4.69	1.49	1.42
29	DL	201	PEB	C3C-C4C	4.69	1.49	1.42
29	FD	202	PEB	C3B-C2B	4.69	1.46	1.36
29	JD	202	PEB	C3B-C2B	4.69	1.46	1.36
29	k7	201	PEB	C3C-C4C	4.68	1.49	1.42
29	k9	201	PEB	C3C-C4C	4.68	1.49	1.42
29	xJ	303	PEB	C3C-C4C	4.68	1.49	1.42
30	xL	304	PUB	C2B-C1B	4.68	1.49	1.42
29	A9	304	PEB	C3C-C4C	4.68	1.49	1.42
29	T7	201	PEB	C3C-C4C	4.68	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	T9	201	PEB	C3C-C4C	4.68	1.49	1.42
29	AF	304	PEB	C3C-C4C	4.68	1.49	1.42
29	AI	304	PEB	C3C-C4C	4.68	1.49	1.42
29	fJ	201	PEB	C3C-C4C	4.68	1.49	1.42
29	fL	201	PEB	C3C-C4C	4.68	1.49	1.42
29	JA	203	PEB	C3B-C2B	4.68	1.46	1.36
29	JN	203	PEB	C3B-C2B	4.68	1.46	1.36
29	Q2	202	PEB	CHA-C1B	4.68	1.51	1.40
29	R7	201	PEB	C3C-C4C	4.68	1.49	1.42
29	R9	201	PEB	C3C-C4C	4.68	1.49	1.42
29	NR	201	PEB	C3C-C4C	4.67	1.49	1.42
29	SR	202	PEB	C3C-C4C	4.67	1.49	1.42
29	i7	201	PEB	C3C-C4C	4.67	1.49	1.42
29	i9	201	PEB	C3C-C4C	4.67	1.49	1.42
30	BB	302	PUB	C2B-C1B	4.67	1.49	1.42
30	BM	302	PUB	C2B-C1B	4.67	1.49	1.42
29	Y7	201	PEB	C3C-C4C	4.66	1.49	1.42
29	Y9	201	PEB	C3C-C4C	4.66	1.49	1.42
29	A7	304	PEB	C3C-C4C	4.66	1.49	1.42
31	J9	1001	CYC	C1C-NC	-4.66	1.31	1.37
29	S2	202	PEB	C3C-C4C	4.66	1.49	1.42
29	TF	202	PEB	C3C-C4C	4.66	1.49	1.42
29	TI	202	PEB	C3C-C4C	4.66	1.49	1.42
29	H5	202	PEB	C3C-C4C	4.65	1.49	1.42
30	A1	305	PUB	C2B-C1B	4.65	1.49	1.42
30	AK	305	PUB	C2B-C1B	4.65	1.49	1.42
29	kF	203	PEB	C3C-C4C	4.65	1.49	1.42
29	kI	203	PEB	C3C-C4C	4.65	1.49	1.42
29	VR	202	PEB	C3C-C4C	4.65	1.49	1.42
29	V2	201	PEB	C3C-C4C	4.65	1.49	1.42
29	eF	203	PEB	C3C-C4C	4.64	1.49	1.42
29	eI	203	PEB	C3C-C4C	4.64	1.49	1.42
29	T2	201	PEB	C3C-C4C	4.64	1.49	1.42
29	cF	202	PEB	C3C-C4C	4.64	1.49	1.42
29	cI	202	PEB	C3C-C4C	4.64	1.49	1.42
29	TR	201	PEB	C3C-C4C	4.64	1.49	1.42
29	U2	202	PEB	C3C-C4C	4.64	1.49	1.42
29	iF	203	PEB	C3C-C4C	4.64	1.49	1.42
29	iI	203	PEB	C3C-C4C	4.64	1.49	1.42
29	gF	203	PEB	C3C-C4C	4.64	1.49	1.42
29	gI	203	PEB	C3C-C4C	4.64	1.49	1.42
29	mF	203	PEB	C3C-C4C	4.63	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mI	203	PEB	C3C-C4C	4.63	1.49	1.42
29	VF	203	PEB	C3C-C4C	4.63	1.49	1.42
29	VI	203	PEB	C3C-C4C	4.63	1.49	1.42
29	L8	202	PEB	C3C-C4C	4.63	1.49	1.42
29	L5	202	PEB	C3C-C4C	4.62	1.49	1.42
29	YF	203	PEB	C3C-C4C	4.62	1.49	1.42
29	YI	203	PEB	C3C-C4C	4.62	1.49	1.42
29	V2	202	PEB	C3C-C4C	4.61	1.49	1.42
29	B5	202	PEB	C3C-C4C	4.61	1.49	1.42
29	H8	202	PEB	C3C-C4C	4.61	1.49	1.42
29	T2	202	PEB	C3C-C4C	4.61	1.49	1.42
29	RF	202	PEB	C3C-C4C	4.61	1.49	1.42
29	RI	202	PEB	C3C-C4C	4.61	1.49	1.42
29	V7	202	PEB	C3B-C2B	4.61	1.46	1.36
29	V9	202	PEB	C3B-C2B	4.61	1.46	1.36
31	J7	1001	CYC	C1C-NC	-4.61	1.31	1.37
29	B8	202	PEB	C3C-C4C	4.60	1.49	1.42
29	G8	202	PEB	C3C-C4C	4.60	1.49	1.42
29	UF	202	PEB	C3C-C4C	4.60	1.49	1.42
29	UI	202	PEB	C3C-C4C	4.60	1.49	1.42
29	g7	202	PEB	C3B-C2B	4.60	1.46	1.36
29	g9	202	PEB	C3B-C2B	4.60	1.46	1.36
29	VR	201	PEB	C3C-C4C	4.60	1.49	1.42
29	XR	202	PEB	C3C-C4C	4.60	1.49	1.42
30	AM	305	PUB	C2B-C1B	4.60	1.49	1.42
29	NR	202	PEB	C3C-C4C	4.60	1.49	1.42
29	e2	402	PEB	C3C-C4C	4.59	1.49	1.42
30	MQ	404	PUB	C2C-C3C	4.59	1.46	1.36
29	E4	201	PEB	C3C-C4C	4.59	1.49	1.42
29	G5	202	PEB	C3C-C4C	4.59	1.49	1.42
29	WF	201	PEB	C3C-C4C	4.59	1.49	1.42
29	WI	201	PEB	C3C-C4C	4.59	1.49	1.42
29	P7	202	PEB	C3B-C2B	4.59	1.46	1.36
29	P9	202	PEB	C3B-C2B	4.59	1.46	1.36
29	P2	201	PEB	C3C-C4C	4.59	1.49	1.42
29	aF	203	PEB	C3C-C4C	4.59	1.49	1.42
29	aI	203	PEB	C3C-C4C	4.59	1.49	1.42
29	PR	201	PEB	C3C-C4C	4.59	1.49	1.42
30	AB	305	PUB	C2B-C1B	4.59	1.49	1.42
29	k7	202	PEB	C3B-C2B	4.59	1.46	1.36
29	k9	202	PEB	C3B-C2B	4.59	1.46	1.36
29	bF	201	PEB	C3C-C4C	4.59	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	bI	201	PEB	C3C-C4C	4.59	1.49	1.42
29	GD	201	PEB	C3C-C4C	4.59	1.49	1.42
29	N2	202	PEB	C3C-C4C	4.59	1.49	1.42
29	m7	202	PEB	C3B-C2B	4.59	1.46	1.36
29	m9	202	PEB	C3B-C2B	4.59	1.46	1.36
29	ID	201	PEB	C3C-C4C	4.59	1.49	1.42
29	RR	201	PEB	C3C-C4C	4.59	1.49	1.42
29	S7	201	PEB	C1A-NA	-4.58	1.31	1.37
29	S9	201	PEB	C1A-NA	-4.58	1.31	1.37
29	c7	202	PEB	C3B-C2B	4.58	1.46	1.36
29	c9	202	PEB	C3B-C2B	4.58	1.46	1.36
29	IA	201	PEB	C3C-C4C	4.58	1.49	1.42
29	IN	201	PEB	C3C-C4C	4.58	1.49	1.42
29	j7	201	PEB	C1A-NA	-4.58	1.31	1.37
29	j9	201	PEB	C1A-NA	-4.58	1.31	1.37
29	F5	202	PEB	C3C-C4C	4.58	1.49	1.42
29	F8	202	PEB	C3C-C4C	4.58	1.49	1.42
29	W7	201	PEB	C1A-NA	-4.58	1.31	1.37
29	W9	201	PEB	C1A-NA	-4.58	1.31	1.37
29	RR	202	PEB	C3C-C4C	4.58	1.49	1.42
29	KD	201	PEB	C3C-C4C	4.58	1.49	1.42
30	MG	402	PUB	C2C-C3C	4.58	1.46	1.36
29	h7	201	PEB	C1A-NA	-4.57	1.31	1.37
29	h9	201	PEB	C1A-NA	-4.57	1.31	1.37
29	jF	201	PEB	C3C-C4C	4.57	1.49	1.42
29	jI	201	PEB	C3C-C4C	4.57	1.49	1.42
29	KA	201	PEB	C3C-C4C	4.57	1.49	1.42
29	KN	201	PEB	C3C-C4C	4.57	1.49	1.42
29	a7	202	PEB	C3B-C2B	4.57	1.46	1.36
29	a9	202	PEB	C3B-C2B	4.57	1.46	1.36
31	F9	1001	CYC	C1C-NC	-4.57	1.31	1.37
31	L7	1001	CYC	C1C-NC	-4.57	1.31	1.37
29	R2	201	PEB	C3C-C4C	4.57	1.49	1.42
29	PF	203	PEB	C3C-C4C	4.57	1.49	1.42
29	lF	201	PEB	C3C-C4C	4.57	1.49	1.42
29	PI	203	PEB	C3C-C4C	4.57	1.49	1.42
29	II	201	PEB	C3C-C4C	4.57	1.49	1.42
29	SF	201	PEB	C3C-C4C	4.57	1.49	1.42
29	SI	201	PEB	C3C-C4C	4.57	1.49	1.42
29	J5	201	PEB	C1A-NA	-4.56	1.31	1.37
29	J8	201	PEB	C1A-NA	-4.56	1.31	1.37
29	CA	201	PEB	C3C-C4C	4.56	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CN	201	PEB	C3C-C4C	4.56	1.49	1.42
29	EA	201	PEB	C3C-C4C	4.56	1.49	1.42
29	EN	201	PEB	C3C-C4C	4.56	1.49	1.42
29	T7	202	PEB	C3B-C2B	4.56	1.46	1.36
29	T9	202	PEB	C3B-C2B	4.56	1.46	1.36
29	E4	202	PEB	C1A-NA	-4.56	1.31	1.37
29	Y7	202	PEB	C3B-C2B	4.56	1.46	1.36
29	Y9	202	PEB	C3B-C2B	4.56	1.46	1.36
29	dF	202	PEB	C3C-C4C	4.56	1.49	1.42
29	dI	202	PEB	C3C-C4C	4.56	1.49	1.42
29	i7	202	PEB	C3B-C2B	4.56	1.46	1.36
29	i9	202	PEB	C3B-C2B	4.56	1.46	1.36
29	B4	202	PEB	C1A-NA	-4.56	1.31	1.37
29	H4	202	PEB	C1A-NA	-4.56	1.31	1.37
29	f7	201	PEB	C1A-NA	-4.56	1.31	1.37
29	f9	201	PEB	C1A-NA	-4.56	1.31	1.37
29	BD	202	PEB	C1A-NA	-4.56	1.31	1.37
29	HD	202	PEB	C1A-NA	-4.56	1.31	1.37
29	XR	201	PEB	C3C-C4C	4.56	1.49	1.42
29	GA	201	PEB	C3C-C4C	4.55	1.49	1.42
29	GN	201	PEB	C3C-C4C	4.55	1.49	1.42
29	TR	202	PEB	C3C-C4C	4.55	1.49	1.42
29	TI	201	PEB	C3B-C2B	4.55	1.46	1.36
29	Z7	201	PEB	C1A-NA	-4.55	1.31	1.37
29	Z9	201	PEB	C1A-NA	-4.55	1.31	1.37
29	X2	201	PEB	C3C-C4C	4.55	1.49	1.42
29	d7	201	PEB	C1A-NA	-4.55	1.31	1.37
29	d9	201	PEB	C1A-NA	-4.55	1.31	1.37
29	C4	201	PEB	C3C-C4C	4.55	1.49	1.42
29	CD	201	PEB	C3C-C4C	4.55	1.49	1.42
29	xL	301	PEB	C3C-C4C	4.55	1.49	1.42
29	b7	201	PEB	C1A-NA	-4.55	1.31	1.37
29	b9	201	PEB	C1A-NA	-4.55	1.31	1.37
29	QF	201	PEB	C3C-C4C	4.55	1.49	1.42
29	QI	201	PEB	C3C-C4C	4.55	1.49	1.42
31	C1	1001	CYC	CHB-C1B	4.55	1.48	1.38
31	M1	1001	CYC	CHB-C1B	4.55	1.48	1.38
31	MK	1001	CYC	CHB-C1B	4.55	1.48	1.38
29	e7	202	PEB	C3B-C2B	4.54	1.46	1.36
29	e9	202	PEB	C3B-C2B	4.54	1.46	1.36
29	K4	201	PEB	C3C-C4C	4.54	1.49	1.42
29	AA	201	PEB	C3C-C4C	4.54	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AN	201	PEB	C3C-C4C	4.54	1.49	1.42
29	R7	202	PEB	C3B-C2B	4.54	1.46	1.36
29	R9	202	PEB	C3B-C2B	4.54	1.46	1.36
29	U7	201	PEB	C1A-NA	-4.54	1.31	1.37
29	U9	201	PEB	C1A-NA	-4.54	1.31	1.37
31	H7	1001	CYC	C1C-NC	-4.54	1.31	1.37
31	N7	1001	CYC	C1C-NC	-4.54	1.31	1.37
31	H9	1001	CYC	C1C-NC	-4.54	1.31	1.37
31	N9	1001	CYC	C1C-NC	-4.54	1.31	1.37
29	dD	401	PEB	C3C-C4C	4.54	1.49	1.42
29	wJ	301	PEB	C3C-C4C	4.54	1.49	1.42
29	MB	202	PEB	C3C-C4C	4.54	1.49	1.42
29	fF	201	PEB	C3C-C4C	4.54	1.49	1.42
29	fI	201	PEB	C3C-C4C	4.54	1.49	1.42
29	MM	202	PEB	C3C-C4C	4.54	1.49	1.42
31	EK	1001	CYC	CHB-C1B	4.54	1.48	1.38
29	kF	201	PEB	C3B-C2B	4.54	1.46	1.36
29	kI	201	PEB	C3B-C2B	4.54	1.46	1.36
29	l7	201	PEB	C1A-NA	-4.54	1.31	1.37
29	l9	201	PEB	C1A-NA	-4.54	1.31	1.37
29	hF	201	PEB	C3C-C4C	4.54	1.49	1.42
29	hI	201	PEB	C3C-C4C	4.54	1.49	1.42
31	K1	1001	CYC	CHB-C1B	4.54	1.48	1.38
31	KK	1001	CYC	CHB-C1B	4.54	1.48	1.38
31	GK	1001	CYC	CHB-C1B	4.54	1.48	1.38
29	I4	201	PEB	C3C-C4C	4.54	1.49	1.42
31	D7	1001	CYC	C1C-NC	-4.53	1.31	1.37
31	D9	1001	CYC	C1C-NC	-4.53	1.31	1.37
29	G4	201	PEB	C3C-C4C	4.53	1.49	1.42
29	gF	201	PEB	C3B-C2B	4.53	1.46	1.36
29	gI	201	PEB	C3B-C2B	4.53	1.46	1.36
29	eF	201	PEB	C3B-C2B	4.53	1.46	1.36
29	eI	201	PEB	C3B-C2B	4.53	1.46	1.36
29	OF	201	PEB	C3C-C4C	4.53	1.49	1.42
29	OI	201	PEB	C3C-C4C	4.53	1.49	1.42
31	D1	1003	CYC	CHB-C1B	4.53	1.48	1.38
29	fB	202	PEB	C3C-C4C	4.53	1.49	1.42
29	fM	202	PEB	C3C-C4C	4.53	1.49	1.42
29	MD	201	PEB	C3C-C4C	4.53	1.49	1.42
31	E1	1001	CYC	CHB-C1B	4.53	1.48	1.38
29	YF	201	PEB	C3B-C2B	4.53	1.46	1.36
29	YI	201	PEB	C3B-C2B	4.53	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	A1	302	PEB	C3C-C4C	4.53	1.49	1.42
29	AK	302	PEB	C3C-C4C	4.53	1.49	1.42
29	OB	202	PEB	C3C-C4C	4.53	1.49	1.42
29	OM	202	PEB	C3C-C4C	4.53	1.49	1.42
29	VF	201	PEB	C3B-C2B	4.52	1.46	1.36
29	VI	201	PEB	C3B-C2B	4.52	1.46	1.36
29	ZF	201	PEB	C3C-C4C	4.52	1.49	1.42
29	ZI	201	PEB	C3C-C4C	4.52	1.49	1.42
31	L9	1001	CYC	C1C-NC	-4.52	1.31	1.37
31	CK	1001	CYC	CHB-C1B	4.52	1.48	1.38
29	RF	201	PEB	C3B-C2B	4.52	1.46	1.36
29	RI	201	PEB	C3B-C2B	4.52	1.46	1.36
29	aF	201	PEB	C3B-C2B	4.52	1.46	1.36
29	aI	201	PEB	C3B-C2B	4.52	1.46	1.36
29	hB	202	PEB	C3C-C4C	4.52	1.49	1.42
29	hM	202	PEB	C3C-C4C	4.52	1.49	1.42
29	xJ	301	PEB	C3C-C4C	4.52	1.49	1.42
29	SB	202	PEB	C3C-C4C	4.51	1.49	1.42
29	SM	202	PEB	C3C-C4C	4.51	1.49	1.42
29	YB	203	PEB	C3C-C4C	4.51	1.49	1.42
29	YM	203	PEB	C3C-C4C	4.51	1.49	1.42
31	F7	1001	CYC	C1C-NC	-4.51	1.31	1.37
29	M4	201	PEB	C3C-C4C	4.51	1.49	1.42
29	ED	201	PEB	C1A-NA	-4.51	1.31	1.37
29	iF	201	PEB	C3B-C2B	4.51	1.46	1.36
29	iI	201	PEB	C3B-C2B	4.51	1.46	1.36
29	UB	202	PEB	C3C-C4C	4.51	1.49	1.42
29	MQ	401	PEB	C3C-C4C	4.51	1.49	1.42
29	EB	202	PEB	C3C-C4C	4.50	1.49	1.42
29	EM	202	PEB	C3C-C4C	4.50	1.49	1.42
29	DD	202	PEB	C1A-NA	-4.50	1.31	1.37
29	QB	204	PEB	C3C-C4C	4.50	1.49	1.42
29	QM	204	PEB	C3C-C4C	4.50	1.49	1.42
29	Q7	201	PEB	C1A-NA	-4.50	1.31	1.37
29	Q9	201	PEB	C1A-NA	-4.50	1.31	1.37
31	IK	1001	CYC	CHB-C1B	4.50	1.48	1.38
29	FD	202	PEB	C1A-NA	-4.50	1.31	1.37
30	wJ	305	PUB	C2C-C3C	4.50	1.46	1.36
29	GB	202	PEB	C3C-C4C	4.50	1.49	1.42
29	GM	202	PEB	C3C-C4C	4.50	1.49	1.42
31	I1	1001	CYC	CHB-C1B	4.50	1.48	1.38
29	mF	201	PEB	C3B-C2B	4.50	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mI	201	PEB	C3B-C2B	4.50	1.46	1.36
29	cF	201	PEB	C3B-C2B	4.50	1.46	1.36
29	cI	201	PEB	C3B-C2B	4.50	1.46	1.36
29	R2	202	PEB	C3C-C4C	4.49	1.49	1.42
29	PF	201	PEB	C3B-C2B	4.49	1.46	1.36
29	PI	201	PEB	C3B-C2B	4.49	1.46	1.36
29	jB	202	PEB	C3C-C4C	4.49	1.49	1.42
29	jM	202	PEB	C3C-C4C	4.49	1.49	1.42
29	F4	202	PEB	C1A-NA	-4.49	1.31	1.37
29	KD	202	PEB	C1A-NA	-4.49	1.31	1.37
29	aB	202	PEB	C3C-C4C	4.48	1.49	1.42
29	aM	202	PEB	C3C-C4C	4.48	1.49	1.42
29	K3	201	PEB	C3C-C4C	4.48	1.49	1.42
29	KO	201	PEB	C3C-C4C	4.48	1.49	1.42
29	KB	202	PEB	C3C-C4C	4.48	1.49	1.42
29	KM	202	PEB	C3C-C4C	4.48	1.49	1.42
29	M2	201	PEB	C1A-NA	-4.48	1.31	1.37
29	MR	201	PEB	C1A-NA	-4.48	1.31	1.37
29	wL	301	PEB	C3C-C4C	4.48	1.49	1.42
29	U2	201	PEB	C1A-NA	-4.47	1.31	1.37
29	lB	202	PEB	C3C-C4C	4.47	1.49	1.42
29	lM	202	PEB	C3C-C4C	4.47	1.49	1.42
30	wL	305	PUB	C2C-C3C	4.47	1.46	1.36
29	O7	201	PEB	C1A-NA	-4.47	1.31	1.37
29	O9	201	PEB	C1A-NA	-4.47	1.31	1.37
29	CB	202	PEB	C3C-C4C	4.47	1.49	1.42
29	CM	202	PEB	C3C-C4C	4.47	1.49	1.42
29	IB	202	PEB	C3C-C4C	4.47	1.49	1.42
29	IM	202	PEB	C3C-C4C	4.47	1.49	1.42
29	A3	201	PEB	C3C-C4C	4.47	1.49	1.42
29	AO	201	PEB	C3C-C4C	4.47	1.49	1.42
29	K4	202	PEB	C1A-NA	-4.46	1.31	1.37
29	M4	202	PEB	C1A-NA	-4.46	1.31	1.37
29	JD	202	PEB	C1A-NA	-4.46	1.31	1.37
29	MD	202	PEB	C1A-NA	-4.46	1.31	1.37
29	dB	202	PEB	C3C-C4C	4.46	1.49	1.42
29	dM	202	PEB	C3C-C4C	4.46	1.49	1.42
29	D4	202	PEB	C1A-NA	-4.46	1.31	1.37
29	I4	202	PEB	C1A-NA	-4.46	1.31	1.37
29	ID	202	PEB	C1A-NA	-4.46	1.31	1.37
30	xJ	305	PUB	C2C-C3C	4.46	1.46	1.36
29	H4	201	PEB	C3C-C4C	4.46	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L4	202	PEB	C1A-NA	-4.46	1.31	1.37
30	MN	403	PUB	OD-C4D	4.45	1.32	1.23
29	G3	201	PEB	C3C-C4C	4.45	1.49	1.42
29	GO	201	PEB	C3C-C4C	4.45	1.49	1.42
30	MA	403	PUB	OD-C4D	4.45	1.32	1.23
29	hF	201	PEB	C3B-C2B	4.45	1.46	1.36
29	hI	201	PEB	C3B-C2B	4.45	1.46	1.36
29	E3	201	PEB	C3C-C4C	4.45	1.49	1.42
29	EO	201	PEB	C3C-C4C	4.45	1.49	1.42
29	UF	202	PEB	C3B-C2B	4.45	1.46	1.36
29	UI	202	PEB	C3B-C2B	4.45	1.46	1.36
30	MQ	405	PUB	C2C-C3C	4.45	1.46	1.36
30	MG	403	PUB	C2C-C3C	4.44	1.46	1.36
30	xL	305	PUB	C2C-C3C	4.44	1.46	1.36
30	AF	303	PUB	C2B-C1B	4.44	1.49	1.42
30	AI	303	PUB	C2B-C1B	4.44	1.49	1.42
29	fF	201	PEB	C3B-C2B	4.44	1.46	1.36
29	fI	201	PEB	C3B-C2B	4.44	1.46	1.36
29	G4	202	PEB	C1A-NA	-4.44	1.31	1.37
29	GD	202	PEB	C1A-NA	-4.44	1.31	1.37
29	QR	201	PEB	C1A-NA	-4.44	1.31	1.37
29	BC	202	PEB	C3C-C4C	4.44	1.49	1.42
29	BE	202	PEB	C3C-C4C	4.44	1.49	1.42
29	bF	201	PEB	C3B-C2B	4.43	1.46	1.36
29	bI	201	PEB	C3B-C2B	4.43	1.46	1.36
29	WB	202	PEB	C3C-C4C	4.43	1.49	1.42
29	WM	202	PEB	C3C-C4C	4.43	1.49	1.42
29	LD	202	PEB	C1A-NA	-4.43	1.31	1.37
29	C3	201	PEB	C3C-C4C	4.43	1.49	1.42
29	CO	201	PEB	C3C-C4C	4.43	1.49	1.42
29	QF	201	PEB	C3B-C2B	4.43	1.46	1.36
29	QI	201	PEB	C3B-C2B	4.43	1.46	1.36
29	jF	201	PEB	C3B-C2B	4.43	1.46	1.36
29	jI	201	PEB	C3B-C2B	4.43	1.46	1.36
29	WF	201	PEB	C3B-C2B	4.43	1.46	1.36
29	WI	201	PEB	C3B-C2B	4.43	1.46	1.36
31	F9	1001	CYC	CHB-C1B	4.43	1.48	1.38
31	F7	1001	CYC	CHB-C1B	4.42	1.48	1.38
29	O2	201	PEB	C1A-NA	-4.42	1.31	1.37
31	H7	1001	CYC	CHB-C1B	4.42	1.48	1.38
31	H9	1001	CYC	CHB-C1B	4.42	1.48	1.38
31	D7	1001	CYC	CHB-C1B	4.42	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	D9	1001	CYC	CHB-C1B	4.42	1.48	1.38
31	N7	1001	CYC	CHB-C1B	4.42	1.48	1.38
31	N9	1001	CYC	CHB-C1B	4.42	1.48	1.38
29	J4	202	PEB	C1A-NA	-4.42	1.31	1.37
29	SF	201	PEB	C3B-C2B	4.41	1.46	1.36
29	SI	201	PEB	C3B-C2B	4.41	1.46	1.36
29	MA	404	PEB	C1A-NA	-4.41	1.31	1.37
29	I3	201	PEB	C3C-C4C	4.41	1.48	1.42
29	IO	201	PEB	C3C-C4C	4.41	1.48	1.42
29	FC	202	PEB	C3C-C4C	4.41	1.48	1.42
29	FE	202	PEB	C3C-C4C	4.41	1.48	1.42
31	KF	1001	CYC	CHB-C1B	4.41	1.48	1.38
29	UR	201	PEB	C1A-NA	-4.41	1.31	1.37
31	CF	1001	CYC	CHB-C1B	4.40	1.48	1.38
31	CI	1001	CYC	CHB-C1B	4.40	1.48	1.38
29	OR	201	PEB	C1A-NA	-4.40	1.31	1.37
29	WR	201	PEB	C1A-NA	-4.40	1.31	1.37
29	J5	201	PEB	C3B-C2B	4.40	1.46	1.36
29	J8	201	PEB	C3B-C2B	4.40	1.46	1.36
29	B4	201	PEB	C3C-C4C	4.40	1.48	1.42
29	JB	203	PEB	CHA-C1B	4.40	1.50	1.40
29	JM	203	PEB	CHA-C1B	4.40	1.50	1.40
29	BD	201	PEB	C3C-C4C	4.40	1.48	1.42
31	KI	1001	CYC	CHB-C1B	4.40	1.48	1.38
31	J7	1001	CYC	CHB-C1B	4.40	1.48	1.38
29	DB	203	PEB	CHA-C1B	4.40	1.50	1.40
29	DM	203	PEB	CHA-C1B	4.40	1.50	1.40
29	dF	202	PEB	C3B-C2B	4.40	1.46	1.36
29	dI	202	PEB	C3B-C2B	4.40	1.46	1.36
31	L7	1001	CYC	CHB-C1B	4.40	1.48	1.38
29	ZF	201	PEB	C3B-C2B	4.40	1.46	1.36
29	ZI	201	PEB	C3B-C2B	4.40	1.46	1.36
31	J9	1001	CYC	CHB-C1B	4.39	1.48	1.38
29	iB	203	PEB	CHA-C1B	4.39	1.50	1.40
29	iM	203	PEB	CHA-C1B	4.39	1.50	1.40
29	MN	404	PEB	C1A-NA	-4.39	1.31	1.37
29	L4	201	PEB	C3C-C4C	4.39	1.48	1.42
29	LD	201	PEB	C3C-C4C	4.39	1.48	1.42
29	YF	201	PEB	C3C-C4C	4.39	1.48	1.42
29	YI	201	PEB	C3C-C4C	4.39	1.48	1.42
29	NB	202	PEB	CHA-C1B	4.39	1.50	1.40
29	NM	202	PEB	CHA-C1B	4.39	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jJ	202	PEB	C3C-C4C	4.39	1.48	1.42
29	jL	202	PEB	C3C-C4C	4.39	1.48	1.42
29	PB	202	PEB	CHA-C1B	4.39	1.50	1.40
29	PM	202	PEB	CHA-C1B	4.39	1.50	1.40
29	Q2	201	PEB	C1A-NA	-4.38	1.31	1.37
29	HC	202	PEB	C3C-C4C	4.38	1.48	1.42
29	DD	201	PEB	C3C-C4C	4.38	1.48	1.42
29	HE	202	PEB	C3C-C4C	4.38	1.48	1.42
29	TJ	202	PEB	C3C-C4C	4.38	1.48	1.42
29	TL	202	PEB	C3C-C4C	4.38	1.48	1.42
29	OF	201	PEB	C3B-C2B	4.38	1.46	1.36
29	OI	201	PEB	C3B-C2B	4.38	1.46	1.36
29	eB	202	PEB	CHA-C1B	4.38	1.50	1.40
29	eM	202	PEB	CHA-C1B	4.38	1.50	1.40
29	lF	201	PEB	C3B-C2B	4.38	1.46	1.36
29	lI	201	PEB	C3B-C2B	4.38	1.46	1.36
31	MF	1001	CYC	CHB-C1B	4.38	1.48	1.38
31	MI	1001	CYC	CHB-C1B	4.38	1.48	1.38
29	fJ	202	PEB	C3C-C4C	4.38	1.48	1.42
29	fL	202	PEB	C3C-C4C	4.38	1.48	1.42
29	cB	203	PEB	CHA-C1B	4.38	1.50	1.40
29	cM	203	PEB	CHA-C1B	4.38	1.50	1.40
31	IF	1001	CYC	CHB-C1B	4.38	1.48	1.38
31	II	1001	CYC	CHB-C1B	4.38	1.48	1.38
29	kB	203	PEB	CHA-C1B	4.38	1.50	1.40
29	kM	203	PEB	CHA-C1B	4.38	1.50	1.40
29	HB	203	PEB	CHA-C1B	4.37	1.50	1.40
29	HM	203	PEB	CHA-C1B	4.37	1.50	1.40
29	JD	201	PEB	C3C-C4C	4.37	1.48	1.42
29	HD	201	PEB	C3C-C4C	4.37	1.48	1.42
31	L9	1001	CYC	CHB-C1B	4.37	1.48	1.38
29	PF	201	PEB	C3C-C4C	4.37	1.48	1.42
29	PI	201	PEB	C3C-C4C	4.37	1.48	1.42
29	ZJ	202	PEB	C3C-C4C	4.37	1.48	1.42
29	ZL	202	PEB	C3C-C4C	4.37	1.48	1.42
29	VB	203	PEB	CHA-C1B	4.37	1.50	1.40
29	gB	203	PEB	CHA-C1B	4.37	1.50	1.40
29	VM	203	PEB	CHA-C1B	4.37	1.50	1.40
29	gM	203	PEB	CHA-C1B	4.37	1.50	1.40
29	PJ	202	PEB	C3C-C4C	4.37	1.48	1.42
29	PL	202	PEB	C3C-C4C	4.37	1.48	1.42
29	TB	203	PEB	CHA-C1B	4.37	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	TM	203	PEB	CHA-C1B	4.37	1.50	1.40
29	C4	202	PEB	C1A-NA	-4.37	1.31	1.37
31	EF	1001	CYC	CHB-C1B	4.37	1.48	1.38
31	EI	1001	CYC	CHB-C1B	4.37	1.48	1.38
29	FB	203	PEB	CHA-C1B	4.37	1.50	1.40
29	FM	203	PEB	CHA-C1B	4.37	1.50	1.40
29	AC	203	PEB	C3C-C4C	4.36	1.48	1.42
29	AE	203	PEB	C3C-C4C	4.36	1.48	1.42
29	IJ	202	PEB	C3C-C4C	4.36	1.48	1.42
29	IL	202	PEB	C3C-C4C	4.36	1.48	1.42
29	BJ	202	PEB	C3C-C4C	4.36	1.48	1.42
29	hJ	202	PEB	C3C-C4C	4.36	1.48	1.42
29	BL	202	PEB	C3C-C4C	4.36	1.48	1.42
29	hL	202	PEB	C3C-C4C	4.36	1.48	1.42
29	CD	202	PEB	C1A-NA	-4.36	1.32	1.37
31	DF	1001	CYC	C1C-NC	-4.36	1.32	1.37
31	DI	1001	CYC	C1C-NC	-4.36	1.32	1.37
29	LB	203	PEB	CHA-C1B	4.36	1.50	1.40
29	LM	203	PEB	CHA-C1B	4.36	1.50	1.40
29	IJ	203	PEB	C3C-C4C	4.36	1.48	1.42
29	IL	203	PEB	C3C-C4C	4.36	1.48	1.42
29	pJ	202	PEB	C3C-C4C	4.36	1.48	1.42
29	pL	202	PEB	C3C-C4C	4.36	1.48	1.42
29	RB	203	PEB	CHA-C1B	4.36	1.50	1.40
29	RM	203	PEB	CHA-C1B	4.36	1.50	1.40
29	mB	203	PEB	CHA-C1B	4.36	1.50	1.40
29	mM	203	PEB	CHA-C1B	4.36	1.50	1.40
29	sJ	203	PEB	C3C-C4C	4.36	1.48	1.42
29	sL	203	PEB	C3C-C4C	4.36	1.48	1.42
31	GF	1001	CYC	CHB-C1B	4.35	1.48	1.38
31	GI	1001	CYC	CHB-C1B	4.35	1.48	1.38
29	cF	201	PEB	C3C-C4C	4.35	1.48	1.42
29	cI	201	PEB	C3C-C4C	4.35	1.48	1.42
29	XB	202	PEB	CHA-C1B	4.35	1.50	1.40
29	XM	202	PEB	CHA-C1B	4.35	1.50	1.40
29	gF	201	PEB	C3C-C4C	4.35	1.48	1.42
29	gI	201	PEB	C3C-C4C	4.35	1.48	1.42
29	LC	202	PEB	C3C-C4C	4.35	1.48	1.42
29	LE	202	PEB	C3C-C4C	4.35	1.48	1.42
29	nJ	202	PEB	C3C-C4C	4.35	1.48	1.42
29	nL	202	PEB	C3C-C4C	4.35	1.48	1.42
31	JF	1001	CYC	C1C-NC	-4.35	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	JI	1001	CYC	C1C-NC	-4.35	1.32	1.37
31	NF	1001	CYC	C1C-NC	-4.35	1.32	1.37
31	NI	1001	CYC	C1C-NC	-4.35	1.32	1.37
31	LF	1001	CYC	C1C-NC	-4.35	1.32	1.37
31	LI	1001	CYC	C1C-NC	-4.35	1.32	1.37
29	aF	201	PEB	C3C-C4C	4.35	1.48	1.42
29	aI	201	PEB	C3C-C4C	4.35	1.48	1.42
29	ED	202	PEB	C2A-C1A	-4.34	1.48	1.52
29	W2	201	PEB	C1A-NA	-4.34	1.32	1.37
29	rJ	202	PEB	C3C-C4C	4.34	1.48	1.42
29	rL	202	PEB	C3C-C4C	4.34	1.48	1.42
29	WJ	201	PEB	C3C-C4C	4.34	1.48	1.42
29	WL	201	PEB	C3C-C4C	4.34	1.48	1.42
29	ZB	203	PEB	CHA-C1B	4.34	1.50	1.40
29	ZM	203	PEB	CHA-C1B	4.34	1.50	1.40
29	VF	201	PEB	C3C-C4C	4.34	1.48	1.42
29	VI	201	PEB	C3C-C4C	4.34	1.48	1.42
29	CD	203	PEB	C2A-C1A	-4.34	1.48	1.52
29	J4	201	PEB	C3C-C4C	4.34	1.48	1.42
29	uJ	201	PEB	C3C-C4C	4.34	1.48	1.42
29	uL	201	PEB	C3C-C4C	4.34	1.48	1.42
29	NJ	202	PEB	C3C-C4C	4.34	1.48	1.42
29	NL	202	PEB	C3C-C4C	4.34	1.48	1.42
29	ID	203	PEB	C2A-C1A	-4.34	1.48	1.52
29	HJ	201	PEB	C3C-C4C	4.34	1.48	1.42
29	HL	201	PEB	C3C-C4C	4.34	1.48	1.42
29	KC	201	PEB	C3C-C4C	4.33	1.48	1.42
29	KE	201	PEB	C3C-C4C	4.33	1.48	1.42
29	bJ	202	PEB	C3C-C4C	4.33	1.48	1.42
29	bL	202	PEB	C3C-C4C	4.33	1.48	1.42
29	dJ	202	PEB	C3C-C4C	4.33	1.48	1.42
29	dL	202	PEB	C3C-C4C	4.33	1.48	1.42
29	F4	201	PEB	C3C-C4C	4.32	1.48	1.42
29	TI	201	PEB	C3C-C4C	4.32	1.48	1.42
29	D4	201	PEB	C3C-C4C	4.32	1.48	1.42
29	XJ	202	PEB	C3C-C4C	4.32	1.48	1.42
29	XL	202	PEB	C3C-C4C	4.32	1.48	1.42
29	WJ	202	PEB	C1A-NA	-4.31	1.32	1.37
29	WL	202	PEB	C1A-NA	-4.31	1.32	1.37
31	nP	1001	CYC	C1C-NC	-4.31	1.32	1.37
31	HF	1001	CYC	C1C-NC	-4.31	1.32	1.37
31	HI	1001	CYC	C1C-NC	-4.31	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	RJ	202	PEB	C3C-C4C	4.31	1.48	1.42
29	RL	202	PEB	C3C-C4C	4.31	1.48	1.42
29	RF	201	PEB	C3C-C4C	4.31	1.48	1.42
29	RI	201	PEB	C3C-C4C	4.31	1.48	1.42
31	MP	1001	CYC	C1C-NC	-4.31	1.32	1.37
30	MG	403	PUB	OD-C4D	4.30	1.31	1.23
29	JJ	202	PEB	C3C-C4C	4.30	1.48	1.42
29	JL	202	PEB	C3C-C4C	4.30	1.48	1.42
29	AJ	203	PEB	C3C-C4C	4.30	1.48	1.42
29	AL	203	PEB	C3C-C4C	4.30	1.48	1.42
29	BB	301	PEB	CHA-C1B	4.30	1.50	1.40
29	BM	301	PEB	CHA-C1B	4.30	1.50	1.40
29	FJ	202	PEB	C3C-C4C	4.30	1.48	1.42
29	FL	202	PEB	C3C-C4C	4.30	1.48	1.42
29	kF	201	PEB	C3C-C4C	4.29	1.48	1.42
29	kI	201	PEB	C3C-C4C	4.29	1.48	1.42
31	UP	1001	CYC	C1C-NC	-4.29	1.32	1.37
31	hP	1001	CYC	C1C-NC	-4.29	1.32	1.37
29	OJ	201	PEB	C1A-NA	-4.29	1.32	1.37
29	OL	201	PEB	C1A-NA	-4.29	1.32	1.37
31	XP	1001	CYC	C1C-NC	-4.29	1.32	1.37
29	iF	201	PEB	C3C-C4C	4.29	1.48	1.42
29	iI	201	PEB	C3C-C4C	4.29	1.48	1.42
31	FF	1001	CYC	C1C-NC	-4.29	1.32	1.37
31	FI	1001	CYC	C1C-NC	-4.29	1.32	1.37
31	qP	1001	CYC	C1C-NC	-4.28	1.32	1.37
29	C4	203	PEB	C2A-C1A	-4.28	1.48	1.52
29	eF	201	PEB	C3C-C4C	4.28	1.48	1.42
29	eI	201	PEB	C3C-C4C	4.28	1.48	1.42
29	YJ	201	PEB	C1A-NA	-4.28	1.32	1.37
29	YL	201	PEB	C1A-NA	-4.28	1.32	1.37
30	MQ	405	PUB	OD-C4D	4.27	1.31	1.23
29	mF	201	PEB	C3C-C4C	4.27	1.48	1.42
29	mI	201	PEB	C3C-C4C	4.27	1.48	1.42
29	mJ	201	PEB	C1A-NA	-4.27	1.32	1.37
29	mL	201	PEB	C1A-NA	-4.27	1.32	1.37
29	oJ	201	PEB	C1A-NA	-4.27	1.32	1.37
29	oL	201	PEB	C1A-NA	-4.27	1.32	1.37
29	FD	201	PEB	C3C-C4C	4.27	1.48	1.42
29	SJ	201	PEB	C1A-NA	-4.27	1.32	1.37
29	SL	201	PEB	C1A-NA	-4.27	1.32	1.37
29	gJ	201	PEB	C1A-NA	-4.27	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	gL	201	PEB	C1A-NA	-4.27	1.32	1.37
29	CJ	201	PEB	C1A-NA	-4.27	1.32	1.37
29	CL	201	PEB	C1A-NA	-4.27	1.32	1.37
31	DP	1001	CYC	C1C-NC	-4.27	1.32	1.37
29	uJ	202	PEB	C1A-NA	-4.26	1.32	1.37
29	uL	202	PEB	C1A-NA	-4.26	1.32	1.37
31	IP	1001	CYC	C1C-NC	-4.26	1.32	1.37
31	BP	1001	CYC	C1C-NC	-4.26	1.32	1.37
31	VP	1001	CYC	C2C-C1C	-4.26	1.48	1.52
29	qJ	201	PEB	C1A-NA	-4.26	1.32	1.37
29	qL	201	PEB	C1A-NA	-4.26	1.32	1.37
31	LF	1001	CYC	CHB-C1B	4.26	1.48	1.38
31	LI	1001	CYC	CHB-C1B	4.26	1.48	1.38
31	FP	1001	CYC	C1C-NC	-4.26	1.32	1.37
31	K9	1001	CYC	CHB-C1B	4.26	1.48	1.38
29	KJ	201	PEB	C1A-NA	-4.26	1.32	1.37
29	KL	201	PEB	C1A-NA	-4.26	1.32	1.37
31	1P	1002	CYC	CHB-C4A	4.26	1.50	1.40
29	IJ	201	PEB	C1A-NA	-4.25	1.32	1.37
29	IL	201	PEB	C1A-NA	-4.25	1.32	1.37
31	jP	1001	CYC	C1C-NC	-4.25	1.32	1.37
29	G4	203	PEB	C2A-C1A	-4.25	1.48	1.52
29	MJ	201	PEB	C1A-NA	-4.25	1.32	1.37
29	ML	201	PEB	C1A-NA	-4.25	1.32	1.37
31	G9	1001	CYC	CHB-C1B	4.25	1.48	1.38
29	K4	203	PEB	C2A-C1A	-4.25	1.48	1.52
31	K7	1001	CYC	CHB-C1B	4.25	1.48	1.38
29	D4	201	PEB	C1A-NA	-4.25	1.32	1.37
29	DD	201	PEB	C1A-NA	-4.25	1.32	1.37
31	HP	1001	CYC	C1C-NC	-4.25	1.32	1.37
31	NF	1001	CYC	CHB-C1B	4.25	1.48	1.38
31	NI	1001	CYC	CHB-C1B	4.25	1.48	1.38
29	kJ	201	PEB	C1A-NA	-4.25	1.32	1.37
29	kL	201	PEB	C1A-NA	-4.25	1.32	1.37
29	EJ	201	PEB	C1A-NA	-4.25	1.32	1.37
29	EL	201	PEB	C1A-NA	-4.25	1.32	1.37
31	HF	1001	CYC	CHB-C1B	4.25	1.48	1.38
31	HI	1001	CYC	CHB-C1B	4.25	1.48	1.38
31	OP	1001	CYC	C1C-NC	-4.25	1.32	1.37
31	G7	1001	CYC	CHB-C1B	4.24	1.48	1.38
31	M9	1001	CYC	CHB-C1B	4.24	1.48	1.38
29	iJ	201	PEB	C1A-NA	-4.24	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	iL	201	PEB	C1A-NA	-4.24	1.32	1.37
29	AJ	201	PEB	C1A-NA	-4.24	1.32	1.37
29	AL	201	PEB	C1A-NA	-4.24	1.32	1.37
31	DF	1001	CYC	CHB-C1B	4.24	1.48	1.38
31	DI	1001	CYC	CHB-C1B	4.24	1.48	1.38
29	E4	203	PEB	C2A-C1A	-4.24	1.48	1.52
31	WP	1001	CYC	CHB-C4A	4.24	1.50	1.40
29	eJ	201	PEB	C1A-NA	-4.24	1.32	1.37
29	eL	201	PEB	C1A-NA	-4.24	1.32	1.37
31	uP	1001	CYC	C1C-NC	-4.24	1.32	1.37
31	oP	1001	CYC	C1C-NC	-4.24	1.32	1.37
29	E4	201	PEB	C1A-NA	-4.24	1.32	1.37
29	UJ	201	PEB	C1A-NA	-4.24	1.32	1.37
29	UL	201	PEB	C1A-NA	-4.24	1.32	1.37
31	FF	1001	CYC	CHB-C1B	4.24	1.48	1.38
31	FI	1001	CYC	CHB-C1B	4.24	1.48	1.38
29	mB	203	PEB	C1A-NA	-4.24	1.32	1.37
29	mM	203	PEB	C1A-NA	-4.24	1.32	1.37
31	M7	1001	CYC	CHB-C1B	4.24	1.48	1.38
31	yP	1001	CYC	CHB-C4A	4.24	1.50	1.40
29	BD	201	PEB	C1A-NA	-4.24	1.32	1.37
31	1P	1001	CYC	C1C-NC	-4.24	1.32	1.37
29	j7	201	PEB	C2A-C1A	-4.23	1.48	1.52
29	j9	201	PEB	C2A-C1A	-4.23	1.48	1.52
29	aJ	201	PEB	C1A-NA	-4.23	1.32	1.37
29	aL	201	PEB	C1A-NA	-4.23	1.32	1.37
31	JF	1001	CYC	CHB-C1B	4.23	1.48	1.38
31	JI	1001	CYC	CHB-C1B	4.23	1.48	1.38
29	BA	201	PEB	C1A-NA	-4.23	1.32	1.37
29	BN	201	PEB	C1A-NA	-4.23	1.32	1.37
29	sJ	201	PEB	C1A-NA	-4.23	1.32	1.37
29	sL	201	PEB	C1A-NA	-4.23	1.32	1.37
31	QP	1001	CYC	C1C-NC	-4.23	1.32	1.37
30	AB	304	PUB	C2B-C1B	4.23	1.48	1.42
31	fP	1001	CYC	C1C-NC	-4.23	1.32	1.37
29	GD	203	PEB	C2A-C1A	-4.23	1.48	1.52
31	xP	1001	CYC	C2C-C1C	-4.23	1.48	1.52
31	E7	1001	CYC	CHB-C1B	4.23	1.48	1.38
31	E9	1001	CYC	CHB-C1B	4.23	1.48	1.38
29	DA	201	PEB	C1A-NA	-4.23	1.32	1.37
29	DN	201	PEB	C1A-NA	-4.23	1.32	1.37
31	C7	1001	CYC	CHB-C1B	4.22	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C9	1001	CYC	CHB-C1B	4.22	1.48	1.38
29	QJ	201	PEB	C1A-NA	-4.22	1.32	1.37
29	QL	201	PEB	C1A-NA	-4.22	1.32	1.37
31	wP	1001	CYC	C1C-NC	-4.22	1.32	1.37
31	I7	1001	CYC	CHB-C1B	4.22	1.48	1.38
31	I9	1001	CYC	CHB-C1B	4.22	1.48	1.38
29	GJ	201	PEB	C1A-NA	-4.22	1.32	1.37
29	GL	201	PEB	C1A-NA	-4.22	1.32	1.37
31	SP	1001	CYC	C1C-NC	-4.22	1.32	1.37
31	sP	1001	CYC	C1C-NC	-4.22	1.32	1.37
29	J4	201	PEB	C1A-NA	-4.22	1.32	1.37
31	YP	1000	CYC	CHB-C4A	4.22	1.50	1.40
29	HA	201	PEB	C1A-NA	-4.21	1.32	1.37
29	HN	201	PEB	C1A-NA	-4.21	1.32	1.37
31	kP	1001	CYC	C1C-NC	-4.21	1.32	1.37
29	LA	201	PEB	C1A-NA	-4.21	1.32	1.37
29	LN	201	PEB	C1A-NA	-4.21	1.32	1.37
29	K4	201	PEB	C1A-NA	-4.21	1.32	1.37
29	KD	201	PEB	C1A-NA	-4.21	1.32	1.37
29	O7	201	PEB	C2A-C1A	-4.21	1.48	1.52
29	O9	201	PEB	C2A-C1A	-4.21	1.48	1.52
29	FD	201	PEB	C1A-NA	-4.21	1.32	1.37
29	BB	301	PEB	C1A-NA	-4.21	1.32	1.37
29	BM	301	PEB	C1A-NA	-4.21	1.32	1.37
29	L4	201	PEB	C1A-NA	-4.21	1.32	1.37
29	CD	201	PEB	C1A-NA	-4.21	1.32	1.37
29	JD	201	PEB	C1A-NA	-4.21	1.32	1.37
29	H4	201	PEB	C1A-NA	-4.20	1.32	1.37
29	dD	401	PEB	C1A-NA	-4.20	1.32	1.37
29	cJ	201	PEB	C1A-NA	-4.20	1.32	1.37
29	cL	201	PEB	C1A-NA	-4.20	1.32	1.37
29	b7	201	PEB	C2A-C1A	-4.20	1.48	1.52
29	b9	201	PEB	C2A-C1A	-4.20	1.48	1.52
29	PB	202	PEB	C1A-NA	-4.20	1.32	1.37
29	PM	202	PEB	C1A-NA	-4.20	1.32	1.37
29	MD	201	PEB	C1A-NA	-4.20	1.32	1.37
30	AM	304	PUB	C2B-C1B	4.19	1.48	1.42
29	ZB	203	PEB	C1A-NA	-4.19	1.32	1.37
29	ZM	203	PEB	C1A-NA	-4.19	1.32	1.37
29	JA	201	PEB	C1A-NA	-4.19	1.32	1.37
29	JN	201	PEB	C1A-NA	-4.19	1.32	1.37
29	I4	201	PEB	C1A-NA	-4.19	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	d7	201	PEB	C2A-C1A	-4.18	1.48	1.52
29	d9	201	PEB	C2A-C1A	-4.18	1.48	1.52
29	M4	201	PEB	C1A-NA	-4.18	1.32	1.37
29	FB	203	PEB	C1A-NA	-4.18	1.32	1.37
29	FM	203	PEB	C1A-NA	-4.18	1.32	1.37
29	HQ	203	PEB	C1A-NA	-4.18	1.32	1.37
29	J5	202	PEB	C1A-NA	-4.17	1.32	1.37
29	J8	202	PEB	C1A-NA	-4.17	1.32	1.37
29	FA	201	PEB	C1A-NA	-4.17	1.32	1.37
29	eB	202	PEB	C1A-NA	-4.17	1.32	1.37
29	eM	202	PEB	C1A-NA	-4.17	1.32	1.37
29	FN	201	PEB	C1A-NA	-4.17	1.32	1.37
29	F4	201	PEB	C1A-NA	-4.17	1.32	1.37
29	HB	203	PEB	C1A-NA	-4.17	1.32	1.37
29	HM	203	PEB	C1A-NA	-4.17	1.32	1.37
29	h7	201	PEB	C2A-C1A	-4.17	1.48	1.52
29	h9	201	PEB	C2A-C1A	-4.17	1.48	1.52
29	C3	202	PEB	C2C-C3C	4.17	1.50	1.37
29	CO	202	PEB	C2C-C3C	4.17	1.50	1.37
29	f7	201	PEB	C2A-C1A	-4.17	1.48	1.52
29	f9	201	PEB	C2A-C1A	-4.17	1.48	1.52
29	TB	203	PEB	C1A-NA	-4.16	1.32	1.37
29	TM	203	PEB	C1A-NA	-4.16	1.32	1.37
29	Q7	201	PEB	C2A-C1A	-4.16	1.48	1.52
29	Q9	201	PEB	C2A-C1A	-4.16	1.48	1.52
29	G3	202	PEB	C2C-C3C	4.16	1.50	1.37
29	GO	202	PEB	C2C-C3C	4.16	1.50	1.37
29	LB	203	PEB	C1A-NA	-4.16	1.32	1.37
29	LM	203	PEB	C1A-NA	-4.16	1.32	1.37
29	B4	201	PEB	C1A-NA	-4.16	1.32	1.37
29	cB	203	PEB	C1A-NA	-4.16	1.32	1.37
29	iB	203	PEB	C1A-NA	-4.16	1.32	1.37
29	cM	203	PEB	C1A-NA	-4.16	1.32	1.37
29	iM	203	PEB	C1A-NA	-4.16	1.32	1.37
30	MA	402	PUB	C2B-C1B	4.15	1.48	1.42
29	MD	203	PEB	C2A-C1A	-4.15	1.48	1.52
29	XB	202	PEB	C1A-NA	-4.15	1.32	1.37
29	XM	202	PEB	C1A-NA	-4.15	1.32	1.37
29	I3	202	PEB	C2C-C3C	4.15	1.50	1.37
29	IO	202	PEB	C2C-C3C	4.15	1.50	1.37
29	W7	201	PEB	C2A-C1A	-4.15	1.48	1.52
29	W9	201	PEB	C2A-C1A	-4.15	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	gB	203	PEB	C1A-NA	-4.15	1.32	1.37
29	gM	203	PEB	C1A-NA	-4.15	1.32	1.37
29	A7	305	PEB	C3C-C4C	4.14	1.48	1.42
29	A9	305	PEB	C3C-C4C	4.14	1.48	1.42
29	JB	203	PEB	C1A-NA	-4.14	1.32	1.37
29	kB	203	PEB	C1A-NA	-4.14	1.32	1.37
29	JM	203	PEB	C1A-NA	-4.14	1.32	1.37
29	kM	203	PEB	C1A-NA	-4.14	1.32	1.37
29	AF	305	PEB	C3C-C4C	4.14	1.48	1.42
29	AI	305	PEB	C3C-C4C	4.14	1.48	1.42
29	l7	201	PEB	C2A-C1A	-4.14	1.48	1.52
29	l9	201	PEB	C2A-C1A	-4.14	1.48	1.52
29	A3	202	PEB	C2C-C3C	4.14	1.49	1.37
29	AO	202	PEB	C2C-C3C	4.14	1.49	1.37
29	VB	203	PEB	C1A-NA	-4.14	1.32	1.37
29	VM	203	PEB	C1A-NA	-4.14	1.32	1.37
29	E3	202	PEB	C2C-C3C	4.14	1.49	1.37
29	EO	202	PEB	C2C-C3C	4.14	1.49	1.37
29	LD	201	PEB	C1A-NA	-4.14	1.32	1.37
29	S7	201	PEB	C2A-C1A	-4.14	1.48	1.52
29	S9	201	PEB	C2A-C1A	-4.14	1.48	1.52
29	HD	201	PEB	C1A-NA	-4.14	1.32	1.37
29	C4	201	PEB	C1A-NA	-4.13	1.32	1.37
29	NB	202	PEB	C1A-NA	-4.13	1.32	1.37
29	NM	202	PEB	C1A-NA	-4.13	1.32	1.37
29	HG	203	PEB	C1A-NA	-4.13	1.32	1.37
31	TP	1001	CYC	C1C-NC	-4.13	1.32	1.37
29	JQ	203	PEB	C1A-NA	-4.13	1.32	1.37
29	KD	203	PEB	C2A-C1A	-4.13	1.48	1.52
29	U7	201	PEB	C2A-C1A	-4.13	1.48	1.52
29	U9	201	PEB	C2A-C1A	-4.13	1.48	1.52
30	MN	402	PUB	C2B-C1B	4.13	1.48	1.42
29	K3	202	PEB	C2C-C3C	4.13	1.49	1.37
29	KO	202	PEB	C2C-C3C	4.13	1.49	1.37
29	FQ	203	PEB	C1A-NA	-4.12	1.32	1.37
31	pP	1001	CYC	C1C-NC	-4.12	1.32	1.37
29	DG	203	PEB	C1A-NA	-4.12	1.32	1.37
31	lP	1001	CYC	C1C-NC	-4.12	1.32	1.37
29	R1	201	PEB	C3C-C4C	4.12	1.48	1.42
29	RK	201	PEB	C3C-C4C	4.12	1.48	1.42
29	bJ	203	PEB	C1A-NA	-4.12	1.32	1.37
29	bL	203	PEB	C1A-NA	-4.12	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GD	201	PEB	C1A-NA	-4.12	1.32	1.37
31	RP	1001	CYC	C1C-NC	-4.12	1.32	1.37
29	DB	203	PEB	C1A-NA	-4.11	1.32	1.37
29	DM	203	PEB	C1A-NA	-4.11	1.32	1.37
29	G4	201	PEB	C1A-NA	-4.11	1.32	1.37
31	N1	1001	CYC	C1C-NC	-4.11	1.32	1.37
29	JG	203	PEB	C1A-NA	-4.11	1.32	1.37
31	D1	1001	CYC	C1C-NC	-4.11	1.32	1.37
31	NF	1001	CYC	C2C-C1C	-4.11	1.48	1.52
31	NI	1001	CYC	C2C-C1C	-4.11	1.48	1.52
31	rP	1001	CYC	C1C-NC	-4.11	1.32	1.37
29	RB	203	PEB	C1A-NA	-4.11	1.32	1.37
29	RM	203	PEB	C1A-NA	-4.11	1.32	1.37
29	K3	201	PEB	C1A-NA	-4.11	1.32	1.37
29	KO	201	PEB	C1A-NA	-4.11	1.32	1.37
31	JP	1001	CYC	C1C-NC	-4.11	1.32	1.37
29	DQ	203	PEB	C1A-NA	-4.11	1.32	1.37
29	FJ	203	PEB	C1A-NA	-4.10	1.32	1.37
29	FL	203	PEB	C1A-NA	-4.10	1.32	1.37
31	H1	1001	CYC	C1C-NC	-4.10	1.32	1.37
31	iP	1001	CYC	C1C-NC	-4.10	1.32	1.37
29	nJ	203	PEB	C1A-NA	-4.10	1.32	1.37
29	nL	203	PEB	C1A-NA	-4.10	1.32	1.37
29	Z7	201	PEB	C2A-C1A	-4.10	1.48	1.52
29	Z9	201	PEB	C2A-C1A	-4.10	1.48	1.52
31	PP	1001	CYC	C1C-NC	-4.09	1.32	1.37
31	DK	1001	CYC	C1C-NC	-4.09	1.32	1.37
29	i7	202	PEB	C1A-NA	-4.09	1.32	1.37
29	i9	202	PEB	C1A-NA	-4.09	1.32	1.37
31	AP	1001	CYC	C1C-NC	-4.09	1.32	1.37
31	GP	1001	CYC	C1C-NC	-4.09	1.32	1.37
31	J1	1001	CYC	C1C-NC	-4.09	1.32	1.37
31	JK	1001	CYC	C1C-NC	-4.09	1.32	1.37
31	gP	1001	CYC	C1C-NC	-4.09	1.32	1.37
29	ID	201	PEB	C1A-NA	-4.09	1.32	1.37
29	HJ	202	PEB	C1A-NA	-4.09	1.32	1.37
29	HL	202	PEB	C1A-NA	-4.09	1.32	1.37
29	V7	202	PEB	C1A-NA	-4.08	1.32	1.37
29	V9	202	PEB	C1A-NA	-4.08	1.32	1.37
31	NK	1001	CYC	C1C-NC	-4.08	1.32	1.37
31	vP	1001	CYC	C1C-NC	-4.08	1.32	1.37
29	E3	201	PEB	C1A-NA	-4.08	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	EO	201	PEB	C1A-NA	-4.08	1.32	1.37
29	LJ	202	PEB	C1A-NA	-4.08	1.32	1.37
29	LL	202	PEB	C1A-NA	-4.08	1.32	1.37
29	DJ	202	PEB	C1A-NA	-4.08	1.32	1.37
29	DL	202	PEB	C1A-NA	-4.08	1.32	1.37
29	BG	203	PEB	C1A-NA	-4.08	1.32	1.37
31	KP	1001	CYC	C1C-NC	-4.07	1.32	1.37
29	aF	201	PEB	C1A-NA	-4.07	1.32	1.37
29	aI	201	PEB	C1A-NA	-4.07	1.32	1.37
29	vJ	202	PEB	C1A-NA	-4.07	1.32	1.37
29	vL	202	PEB	C1A-NA	-4.07	1.32	1.37
31	IF	1001	CYC	C1C-NC	-4.07	1.32	1.37
31	II	1001	CYC	C1C-NC	-4.07	1.32	1.37
31	EP	1001	CYC	C1C-NC	-4.07	1.32	1.37
29	T1	202	PEB	CHA-C1B	4.07	1.49	1.40
29	TK	202	PEB	CHA-C1B	4.07	1.49	1.40
29	G3	201	PEB	C1A-NA	-4.07	1.32	1.37
29	GO	201	PEB	C1A-NA	-4.07	1.32	1.37
29	V1	203	PEB	CHA-C1B	4.07	1.49	1.40
29	VK	203	PEB	CHA-C1B	4.07	1.49	1.40
29	P1	201	PEB	C3C-C4C	4.07	1.48	1.42
29	PK	201	PEB	C3C-C4C	4.07	1.48	1.42
29	FG	203	PEB	C1A-NA	-4.07	1.32	1.37
31	CF	1001	CYC	C1C-NC	-4.07	1.32	1.37
31	CI	1001	CYC	C1C-NC	-4.07	1.32	1.37
29	IJ	203	PEB	C1A-NA	-4.06	1.32	1.37
29	rJ	203	PEB	C1A-NA	-4.06	1.32	1.37
29	IL	203	PEB	C1A-NA	-4.06	1.32	1.37
29	rL	203	PEB	C1A-NA	-4.06	1.32	1.37
29	lF	201	PEB	C1A-NA	-4.06	1.32	1.37
29	II	201	PEB	C1A-NA	-4.06	1.32	1.37
31	F1	1001	CYC	C1C-NC	-4.06	1.32	1.37
31	FK	1001	CYC	C1C-NC	-4.06	1.32	1.37
31	eP	1001	CYC	C1C-NC	-4.06	1.32	1.37
29	RJ	203	PEB	C1A-NA	-4.06	1.32	1.37
29	RL	203	PEB	C1A-NA	-4.06	1.32	1.37
29	Y1	202	PEB	CHA-C1B	4.06	1.49	1.40
29	YK	202	PEB	CHA-C1B	4.06	1.49	1.40
29	pJ	203	PEB	C1A-NA	-4.06	1.32	1.37
29	pL	203	PEB	C1A-NA	-4.06	1.32	1.37
29	MD	202	PEB	OD-C4D	4.06	1.31	1.23
29	VJ	202	PEB	C1A-NA	-4.06	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	VL	202	PEB	C1A-NA	-4.06	1.32	1.37
31	mP	1001	CYC	C1C-NC	-4.06	1.32	1.37
29	R1	203	PEB	CHA-C1B	4.06	1.49	1.40
29	RK	203	PEB	CHA-C1B	4.06	1.49	1.40
29	m7	202	PEB	C1A-NA	-4.06	1.32	1.37
29	m9	202	PEB	C1A-NA	-4.06	1.32	1.37
29	gF	201	PEB	C1A-NA	-4.06	1.32	1.37
29	gI	201	PEB	C1A-NA	-4.06	1.32	1.37
29	LG	203	PEB	C1A-NA	-4.06	1.32	1.37
29	P1	203	PEB	CHA-C1B	4.06	1.49	1.40
29	PK	203	PEB	CHA-C1B	4.06	1.49	1.40
31	CP	1001	CYC	C1C-NC	-4.05	1.32	1.37
29	YF	201	PEB	C1A-NA	-4.05	1.32	1.37
29	YI	201	PEB	C1A-NA	-4.05	1.32	1.37
29	Y7	202	PEB	C1A-NA	-4.05	1.32	1.37
29	Y9	202	PEB	C1A-NA	-4.05	1.32	1.37
31	EF	1001	CYC	C1C-NC	-4.05	1.32	1.37
31	EI	1001	CYC	C1C-NC	-4.05	1.32	1.37
29	ED	201	PEB	OD-C4D	4.05	1.31	1.23
29	c1	203	PEB	CHA-C1B	4.05	1.49	1.40
29	cK	203	PEB	CHA-C1B	4.05	1.49	1.40
29	QF	201	PEB	C1A-NA	-4.05	1.32	1.37
29	QI	201	PEB	C1A-NA	-4.05	1.32	1.37
29	g1	203	PEB	CHA-C1B	4.05	1.49	1.40
29	gK	203	PEB	CHA-C1B	4.05	1.49	1.40
30	QB	201	PUB	C3B-C2B	4.05	1.49	1.37
30	QM	201	PUB	C3B-C2B	4.05	1.49	1.37
29	ZJ	203	PEB	C1A-NA	-4.05	1.32	1.37
29	ZL	203	PEB	C1A-NA	-4.05	1.32	1.37
31	tP	1001	CYC	C1C-NC	-4.05	1.32	1.37
29	i1	201	PEB	C3C-C4C	4.05	1.48	1.42
29	iK	201	PEB	C3C-C4C	4.05	1.48	1.42
29	I4	202	PEB	OD-C4D	4.05	1.31	1.23
29	ID	202	PEB	OD-C4D	4.05	1.31	1.23
29	hF	201	PEB	C1A-NA	-4.05	1.32	1.37
29	hI	201	PEB	C1A-NA	-4.05	1.32	1.37
29	BQ	203	PEB	C1A-NA	-4.05	1.32	1.37
29	JJ	203	PEB	C1A-NA	-4.04	1.32	1.37
29	JL	203	PEB	C1A-NA	-4.04	1.32	1.37
29	k1	203	PEB	CHA-C1B	4.04	1.49	1.40
29	kK	203	PEB	CHA-C1B	4.04	1.49	1.40
29	i1	203	PEB	CHA-C1B	4.04	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	iK	203	PEB	CHA-C1B	4.04	1.49	1.40
29	bF	201	PEB	C1A-NA	-4.04	1.32	1.37
29	bI	201	PEB	C1A-NA	-4.04	1.32	1.37
29	R7	202	PEB	C1A-NA	-4.04	1.32	1.37
29	e7	202	PEB	C1A-NA	-4.04	1.32	1.37
29	R9	202	PEB	C1A-NA	-4.04	1.32	1.37
29	e9	202	PEB	C1A-NA	-4.04	1.32	1.37
29	a1	203	PEB	CHA-C1B	4.04	1.49	1.40
29	aK	203	PEB	CHA-C1B	4.04	1.49	1.40
29	PJ	203	PEB	C1A-NA	-4.04	1.32	1.37
29	TJ	203	PEB	C1A-NA	-4.04	1.32	1.37
29	PL	203	PEB	C1A-NA	-4.04	1.32	1.37
29	TL	203	PEB	C1A-NA	-4.04	1.32	1.37
31	LF	1001	CYC	C2C-C1C	-4.04	1.48	1.52
31	LI	1001	CYC	C2C-C1C	-4.04	1.48	1.52
29	N3	203	PEB	CHA-C1B	4.04	1.49	1.40
29	T1	201	PEB	C3C-C4C	4.04	1.48	1.42
29	k1	201	PEB	C3C-C4C	4.04	1.48	1.42
29	TK	201	PEB	C3C-C4C	4.04	1.48	1.42
29	kK	201	PEB	C3C-C4C	4.04	1.48	1.42
29	dJ	203	PEB	C1A-NA	-4.04	1.32	1.37
29	dL	203	PEB	C1A-NA	-4.04	1.32	1.37
31	HK	1001	CYC	C1C-NC	-4.04	1.32	1.37
29	NO	203	PEB	CHA-C1B	4.04	1.49	1.40
31	NP	1001	CYC	C1C-NC	-4.04	1.32	1.37
29	Y1	201	PEB	C3C-C4C	4.04	1.48	1.42
29	YK	201	PEB	C3C-C4C	4.04	1.48	1.42
29	Z1	202	PEB	C1A-NA	-4.04	1.32	1.37
29	CA	201	PEB	C1A-NA	-4.04	1.32	1.37
29	ZK	202	PEB	C1A-NA	-4.04	1.32	1.37
29	CN	201	PEB	C1A-NA	-4.04	1.32	1.37
29	k7	202	PEB	C1A-NA	-4.04	1.32	1.37
29	k9	202	PEB	C1A-NA	-4.04	1.32	1.37
29	BJ	203	PEB	C1A-NA	-4.04	1.32	1.37
29	BL	203	PEB	C1A-NA	-4.04	1.32	1.37
29	e1	203	PEB	CHA-C1B	4.04	1.49	1.40
29	eK	203	PEB	CHA-C1B	4.04	1.49	1.40
29	a1	201	PEB	C3C-C4C	4.04	1.48	1.42
29	aK	201	PEB	C3C-C4C	4.04	1.48	1.42
31	L1	1001	CYC	C1C-NC	-4.03	1.32	1.37
31	LK	1001	CYC	C1C-NC	-4.03	1.32	1.37
29	S1	201	PEB	C1A-NA	-4.03	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kF	201	PEB	C1A-NA	-4.03	1.32	1.37
29	kI	201	PEB	C1A-NA	-4.03	1.32	1.37
29	SK	201	PEB	C1A-NA	-4.03	1.32	1.37
29	M3	203	PEB	CHA-C1B	4.03	1.49	1.40
29	MO	203	PEB	CHA-C1B	4.03	1.49	1.40
29	a7	202	PEB	C1A-NA	-4.03	1.32	1.37
29	a9	202	PEB	C1A-NA	-4.03	1.32	1.37
29	OF	201	PEB	C1A-NA	-4.03	1.32	1.37
29	mF	201	PEB	C1A-NA	-4.03	1.32	1.37
29	OI	201	PEB	C1A-NA	-4.03	1.32	1.37
29	mI	201	PEB	C1A-NA	-4.03	1.32	1.37
29	PF	201	PEB	C1A-NA	-4.03	1.32	1.37
29	PI	201	PEB	C1A-NA	-4.03	1.32	1.37
29	XJ	203	PEB	C1A-NA	-4.03	1.32	1.37
29	XL	203	PEB	C1A-NA	-4.03	1.32	1.37
29	C4	202	PEB	OD-C4D	4.03	1.31	1.23
29	CD	202	PEB	OD-C4D	4.03	1.31	1.23
31	cP	1001	CYC	C1C-NC	-4.03	1.32	1.37
29	fI	201	PEB	C1A-NA	-4.03	1.32	1.37
29	fK	201	PEB	C1A-NA	-4.03	1.32	1.37
29	mI	202	PEB	CHA-C1B	4.03	1.49	1.40
29	mK	202	PEB	CHA-C1B	4.03	1.49	1.40
29	TI	201	PEB	C1A-NA	-4.03	1.32	1.37
31	MF	1001	CYC	C1C-NC	-4.03	1.32	1.37
31	MI	1001	CYC	C1C-NC	-4.03	1.32	1.37
29	NJ	203	PEB	C1A-NA	-4.02	1.32	1.37
29	NL	203	PEB	C1A-NA	-4.02	1.32	1.37
31	JF	1001	CYC	C2C-C1C	-4.02	1.48	1.52
31	JI	1001	CYC	C2C-C1C	-4.02	1.48	1.52
29	fJ	203	PEB	C1A-NA	-4.02	1.32	1.37
29	fL	203	PEB	C1A-NA	-4.02	1.32	1.37
29	E4	202	PEB	OD-C4D	4.02	1.31	1.23
29	iF	201	PEB	C1A-NA	-4.02	1.32	1.37
29	iI	201	PEB	C1A-NA	-4.02	1.32	1.37
29	tJ	202	PEB	C1A-NA	-4.02	1.32	1.37
29	tL	202	PEB	C1A-NA	-4.02	1.32	1.37
29	J3	203	PEB	CHA-C1B	4.02	1.49	1.40
29	JO	203	PEB	CHA-C1B	4.02	1.49	1.40
29	jF	201	PEB	C1A-NA	-4.02	1.32	1.37
29	jI	201	PEB	C1A-NA	-4.02	1.32	1.37
29	LQ	202	PEB	C1A-NA	-4.02	1.32	1.37
29	M4	202	PEB	OD-C4D	4.02	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jJ	203	PEB	C1A-NA	-4.02	1.32	1.37
29	jL	203	PEB	C1A-NA	-4.02	1.32	1.37
29	e1	201	PEB	C3C-C4C	4.01	1.48	1.42
29	eK	201	PEB	C3C-C4C	4.01	1.48	1.42
29	C3	201	PEB	C1A-NA	-4.01	1.32	1.37
29	CO	201	PEB	C1A-NA	-4.01	1.32	1.37
29	G4	202	PEB	OD-C4D	4.01	1.31	1.23
29	m1	201	PEB	C3C-C4C	4.01	1.48	1.42
29	mK	201	PEB	C3C-C4C	4.01	1.48	1.42
29	I3	201	PEB	C1A-NA	-4.01	1.32	1.37
29	IO	201	PEB	C1A-NA	-4.01	1.32	1.37
29	fF	201	PEB	C1A-NA	-4.01	1.32	1.37
29	fI	201	PEB	C1A-NA	-4.01	1.32	1.37
29	D3	203	PEB	CHA-C1B	4.01	1.49	1.40
29	DO	203	PEB	CHA-C1B	4.01	1.49	1.40
29	g1	201	PEB	C3C-C4C	4.01	1.48	1.42
29	gK	201	PEB	C3C-C4C	4.01	1.48	1.42
29	j1	201	PEB	C1A-NA	-4.01	1.32	1.37
29	jK	201	PEB	C1A-NA	-4.01	1.32	1.37
29	VF	201	PEB	C1A-NA	-4.01	1.32	1.37
29	VI	201	PEB	C1A-NA	-4.01	1.32	1.37
29	c1	201	PEB	C3C-C4C	4.01	1.48	1.42
29	cK	201	PEB	C3C-C4C	4.01	1.48	1.42
29	cF	201	PEB	C1A-NA	-4.01	1.32	1.37
29	cI	201	PEB	C1A-NA	-4.01	1.32	1.37
29	V1	201	PEB	C3C-C4C	4.01	1.48	1.42
29	VK	201	PEB	C3C-C4C	4.01	1.48	1.42
29	A3	201	PEB	C1A-NA	-4.01	1.32	1.37
29	SF	201	PEB	C1A-NA	-4.01	1.32	1.37
29	SI	201	PEB	C1A-NA	-4.01	1.32	1.37
29	AO	201	PEB	C1A-NA	-4.01	1.32	1.37
29	GD	202	PEB	OD-C4D	4.00	1.31	1.23
29	hJ	203	PEB	C1A-NA	-4.00	1.32	1.37
29	hL	203	PEB	C1A-NA	-4.00	1.32	1.37
29	L3	202	PEB	CHA-C1B	4.00	1.49	1.40
29	LO	202	PEB	CHA-C1B	4.00	1.49	1.40
29	O1	201	PEB	C1A-NA	-4.00	1.32	1.37
29	W1	201	PEB	C1A-NA	-4.00	1.32	1.37
29	c7	202	PEB	C1A-NA	-4.00	1.32	1.37
29	c9	202	PEB	C1A-NA	-4.00	1.32	1.37
29	OK	201	PEB	C1A-NA	-4.00	1.32	1.37
29	WK	201	PEB	C1A-NA	-4.00	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	KF	1001	CYC	C1C-NC	-4.00	1.32	1.37
31	FF	1001	CYC	C2C-C1C	-4.00	1.48	1.52
31	FI	1001	CYC	C2C-C1C	-4.00	1.48	1.52
29	F3	203	PEB	CHA-C1B	4.00	1.49	1.40
29	FO	203	PEB	CHA-C1B	4.00	1.49	1.40
29	B3	203	PEB	CHA-C1B	4.00	1.49	1.40
29	BO	203	PEB	CHA-C1B	4.00	1.49	1.40
29	AA	201	PEB	C1A-NA	-4.00	1.32	1.37
29	AN	201	PEB	C1A-NA	-4.00	1.32	1.37
31	GF	1001	CYC	C1C-NC	-4.00	1.32	1.37
31	GI	1001	CYC	C1C-NC	-4.00	1.32	1.37
31	HF	1001	CYC	C2C-C1C	-3.99	1.48	1.52
31	HI	1001	CYC	C2C-C1C	-3.99	1.48	1.52
29	P7	202	PEB	C1A-NA	-3.99	1.32	1.37
29	P9	202	PEB	C1A-NA	-3.99	1.32	1.37
31	qP	1001	CYC	C2C-C1C	-3.99	1.48	1.52
29	eF	201	PEB	C1A-NA	-3.99	1.32	1.37
29	eI	201	PEB	C1A-NA	-3.99	1.32	1.37
29	g7	202	PEB	C1A-NA	-3.99	1.32	1.37
29	g9	202	PEB	C1A-NA	-3.99	1.32	1.37
29	K4	202	PEB	OD-C4D	3.99	1.31	1.23
29	KD	202	PEB	OD-C4D	3.99	1.31	1.23
29	dF	202	PEB	C1A-NA	-3.99	1.32	1.37
29	dI	202	PEB	C1A-NA	-3.99	1.32	1.37
29	U1	202	PEB	C1A-NA	-3.99	1.32	1.37
29	UK	202	PEB	C1A-NA	-3.99	1.32	1.37
29	WF	201	PEB	C1A-NA	-3.98	1.32	1.37
29	WI	201	PEB	C1A-NA	-3.98	1.32	1.37
31	KI	1001	CYC	C1C-NC	-3.98	1.32	1.37
31	HP	1001	CYC	C2C-C1C	-3.98	1.48	1.52
29	UF	202	PEB	C1A-NA	-3.98	1.32	1.37
29	UI	202	PEB	C1A-NA	-3.98	1.32	1.37
29	lI	201	PEB	C1A-NA	-3.98	1.32	1.37
29	lK	201	PEB	C1A-NA	-3.98	1.32	1.37
30	AB	304	PUB	OD-C4D	3.98	1.31	1.23
29	GA	201	PEB	C1A-NA	-3.98	1.32	1.37
29	ZF	201	PEB	C1A-NA	-3.98	1.32	1.37
29	ZI	201	PEB	C1A-NA	-3.98	1.32	1.37
29	GN	201	PEB	C1A-NA	-3.98	1.32	1.37
29	yJ	301	PEB	C1A-NA	-3.98	1.32	1.37
29	yL	301	PEB	C1A-NA	-3.98	1.32	1.37
31	DF	1001	CYC	C2C-C1C	-3.98	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	DI	1001	CYC	C2C-C1C	-3.98	1.48	1.52
31	VP	1001	CYC	CHB-C4A	3.98	1.49	1.40
29	GD	202	PEB	C3C-C4C	3.98	1.48	1.42
29	T7	202	PEB	C1A-NA	-3.98	1.32	1.37
29	T9	202	PEB	C1A-NA	-3.98	1.32	1.37
31	vP	1001	CYC	CHB-C4A	3.98	1.49	1.40
29	RF	201	PEB	C1A-NA	-3.98	1.32	1.37
29	RI	201	PEB	C1A-NA	-3.98	1.32	1.37
29	H3	203	PEB	CHA-C1B	3.97	1.49	1.40
29	HO	203	PEB	CHA-C1B	3.97	1.49	1.40
29	C4	202	PEB	C3C-C4C	3.97	1.48	1.42
29	xJ	302	PEB	CHA-C1B	3.96	1.49	1.40
31	NP	1001	CYC	CHB-C4A	3.96	1.49	1.40
31	PP	1001	CYC	CHB-C4A	3.96	1.49	1.40
29	wJ	302	PEB	CHA-C1B	3.96	1.49	1.40
29	xL	302	PEB	CHA-C1B	3.96	1.49	1.40
29	DC	202	PEB	CHA-C1B	3.96	1.49	1.40
29	DE	202	PEB	CHA-C1B	3.96	1.49	1.40
29	KA	201	PEB	C1A-NA	-3.96	1.32	1.37
29	KN	201	PEB	C1A-NA	-3.96	1.32	1.37
30	AM	304	PUB	OD-C4D	3.95	1.31	1.23
29	EA	201	PEB	C1A-NA	-3.95	1.32	1.37
29	EN	201	PEB	C1A-NA	-3.95	1.32	1.37
31	fP	1001	CYC	C2C-C1C	-3.95	1.48	1.52
29	d1	201	PEB	C1A-NA	-3.95	1.32	1.37
29	JF	1002	PEB	C1A-NA	-3.95	1.32	1.37
29	JI	1002	PEB	C1A-NA	-3.95	1.32	1.37
29	dK	201	PEB	C1A-NA	-3.95	1.32	1.37
29	wL	302	PEB	CHA-C1B	3.95	1.49	1.40
29	yJ	301	PEB	C2A-C1A	-3.95	1.48	1.52
29	yL	301	PEB	C2A-C1A	-3.95	1.48	1.52
29	JC	202	PEB	CHA-C1B	3.95	1.49	1.40
29	JE	202	PEB	CHA-C1B	3.95	1.49	1.40
29	CD	202	PEB	C3C-C4C	3.95	1.48	1.42
29	b1	201	PEB	C1A-NA	-3.95	1.32	1.37
29	bK	201	PEB	C1A-NA	-3.95	1.32	1.37
31	lP	1001	CYC	CHB-C4A	3.95	1.49	1.40
31	rP	1001	CYC	CHB-C4A	3.95	1.49	1.40
29	M4	202	PEB	C3C-C4C	3.95	1.48	1.42
31	pP	1001	CYC	CHB-C4A	3.94	1.49	1.40
31	xP	1001	CYC	CHB-C4A	3.94	1.49	1.40
31	WP	1001	CYC	C1C-NC	-3.94	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	UF	203	PEB	CHA-C1B	3.94	1.49	1.40
29	UI	203	PEB	CHA-C1B	3.94	1.49	1.40
29	A7	305	PEB	CHA-C1B	3.94	1.49	1.40
29	A9	305	PEB	CHA-C1B	3.94	1.49	1.40
31	GP	1001	CYC	CHB-C4A	3.94	1.49	1.40
31	JP	1001	CYC	CHB-C4A	3.94	1.49	1.40
29	QF	202	PEB	CHA-C1B	3.94	1.49	1.40
29	QI	202	PEB	CHA-C1B	3.94	1.49	1.40
29	MD	202	PEB	C3C-C4C	3.94	1.48	1.42
31	iP	1001	CYC	CHB-C4A	3.94	1.49	1.40
31	IP	1001	CYC	C2C-C1C	-3.93	1.48	1.52
31	SP	1001	CYC	C2C-C1C	-3.93	1.48	1.52
31	yP	1001	CYC	C1C-NC	-3.93	1.32	1.37
29	h1	201	PEB	C1A-NA	-3.93	1.32	1.37
29	hK	201	PEB	C1A-NA	-3.93	1.32	1.37
29	ID	202	PEB	C3C-C4C	3.93	1.48	1.42
29	BJ	202	PEB	OD-C4D	3.93	1.31	1.23
29	BL	202	PEB	OD-C4D	3.93	1.31	1.23
29	LC	203	PEB	CHA-C1B	3.93	1.49	1.40
29	LE	203	PEB	CHA-C1B	3.93	1.49	1.40
29	BC	203	PEB	CHA-C1B	3.93	1.49	1.40
29	BE	203	PEB	CHA-C1B	3.93	1.49	1.40
31	RP	1001	CYC	CHB-C4A	3.93	1.49	1.40
29	EA	202	PEB	C2C-C3C	3.93	1.49	1.37
29	EN	202	PEB	C2C-C3C	3.93	1.49	1.37
29	G4	202	PEB	C3C-C4C	3.93	1.48	1.42
29	fJ	202	PEB	OD-C4D	3.93	1.31	1.23
29	fL	202	PEB	OD-C4D	3.93	1.31	1.23
29	XJ	202	PEB	OD-C4D	3.92	1.31	1.23
29	XL	202	PEB	OD-C4D	3.92	1.31	1.23
29	ED	201	PEB	C3C-C4C	3.92	1.48	1.42
31	tP	1001	CYC	CHB-C4A	3.92	1.49	1.40
31	TP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	h7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	h9	201	PEB	C3B-C2B	3.92	1.45	1.36
31	EP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	Z7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	Z9	201	PEB	C3B-C2B	3.92	1.45	1.36
29	Q1	201	PEB	C1A-NA	-3.92	1.32	1.37
29	QK	201	PEB	C1A-NA	-3.92	1.32	1.37
29	E4	202	PEB	C3C-C4C	3.92	1.48	1.42
29	nJ	202	PEB	OD-C4D	3.92	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nL	202	PEB	OD-C4D	3.92	1.31	1.23
31	gP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	U7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	W7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	b7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	U9	201	PEB	C3B-C2B	3.92	1.45	1.36
29	W9	201	PEB	C3B-C2B	3.92	1.45	1.36
29	b9	201	PEB	C3B-C2B	3.92	1.45	1.36
31	BP	1001	CYC	C2C-C1C	-3.92	1.48	1.52
29	Q7	201	PEB	C3B-C2B	3.92	1.45	1.36
29	Q9	201	PEB	C3B-C2B	3.92	1.45	1.36
29	FF	1002	PEB	C1A-NA	-3.92	1.32	1.37
29	FI	1002	PEB	C1A-NA	-3.92	1.32	1.37
29	CA	202	PEB	C2C-C3C	3.92	1.49	1.37
29	CN	202	PEB	C2C-C3C	3.92	1.49	1.37
31	KP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	dJ	202	PEB	OD-C4D	3.92	1.31	1.23
29	dL	202	PEB	OD-C4D	3.92	1.31	1.23
31	AP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	IA	201	PEB	C1A-NA	-3.92	1.32	1.37
29	IN	201	PEB	C1A-NA	-3.92	1.32	1.37
29	AA	202	PEB	C2C-C3C	3.92	1.49	1.37
29	AN	202	PEB	C2C-C3C	3.92	1.49	1.37
29	HC	203	PEB	CHA-C1B	3.92	1.49	1.40
29	HE	203	PEB	CHA-C1B	3.92	1.49	1.40
31	cP	1001	CYC	CHB-C4A	3.92	1.49	1.40
29	KD	202	PEB	C3C-C4C	3.91	1.48	1.42
30	AF	302	PUB	C3B-C2B	3.91	1.49	1.37
30	AI	302	PUB	C3B-C2B	3.91	1.49	1.37
29	O7	201	PEB	C3B-C2B	3.91	1.45	1.36
29	O9	201	PEB	C3B-C2B	3.91	1.45	1.36
29	ZF	202	PEB	CHA-C1B	3.91	1.49	1.40
29	ZI	202	PEB	CHA-C1B	3.91	1.49	1.40
31	eP	1001	CYC	CHB-C4A	3.91	1.49	1.40
31	nP	1001	CYC	C2C-C1C	-3.91	1.48	1.52
29	j7	201	PEB	C3B-C2B	3.91	1.45	1.36
29	j9	201	PEB	C3B-C2B	3.91	1.45	1.36
31	wP	1001	CYC	C2C-C1C	-3.91	1.48	1.52
31	kP	1001	CYC	C2C-C1C	-3.91	1.48	1.52
29	lJ	202	PEB	OD-C4D	3.91	1.31	1.23
29	lL	202	PEB	OD-C4D	3.91	1.31	1.23
29	lF	202	PEB	CHA-C1B	3.91	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	II	202	PEB	CHA-C1B	3.91	1.49	1.40
31	DK	1001	CYC	C2C-C1C	-3.91	1.48	1.52
29	KA	202	PEB	C2C-C3C	3.91	1.49	1.37
29	KN	202	PEB	C2C-C3C	3.91	1.49	1.37
29	J3	201	PEB	C1A-NA	-3.91	1.32	1.37
29	JO	201	PEB	C1A-NA	-3.91	1.32	1.37
29	I4	202	PEB	C3C-C4C	3.91	1.48	1.42
29	dF	203	PEB	CHA-C1B	3.91	1.49	1.40
29	dI	203	PEB	CHA-C1B	3.91	1.49	1.40
29	JJ	202	PEB	OD-C4D	3.91	1.31	1.23
29	JL	202	PEB	OD-C4D	3.91	1.31	1.23
29	HJ	201	PEB	OD-C4D	3.91	1.31	1.23
29	HL	201	PEB	OD-C4D	3.91	1.31	1.23
29	bJ	202	PEB	OD-C4D	3.90	1.31	1.23
29	bL	202	PEB	OD-C4D	3.90	1.31	1.23
29	K4	202	PEB	C3C-C4C	3.90	1.48	1.42
29	rJ	202	PEB	OD-C4D	3.90	1.31	1.23
29	rL	202	PEB	OD-C4D	3.90	1.31	1.23
29	FC	203	PEB	CHA-C1B	3.90	1.49	1.40
29	FE	203	PEB	CHA-C1B	3.90	1.49	1.40
29	hJ	202	PEB	OD-C4D	3.90	1.31	1.23
29	hL	202	PEB	OD-C4D	3.90	1.31	1.23
29	SF	202	PEB	CHA-C1B	3.90	1.49	1.40
29	SI	202	PEB	CHA-C1B	3.90	1.49	1.40
31	mP	1001	CYC	CHB-C4A	3.90	1.49	1.40
29	WJ	201	PEB	OD-C4D	3.90	1.31	1.23
29	WL	201	PEB	OD-C4D	3.90	1.31	1.23
29	AJ	203	PEB	OD-C4D	3.90	1.31	1.23
29	IJ	203	PEB	OD-C4D	3.90	1.31	1.23
29	AL	203	PEB	OD-C4D	3.90	1.31	1.23
29	IL	203	PEB	OD-C4D	3.90	1.31	1.23
29	pJ	202	PEB	OD-C4D	3.90	1.31	1.23
29	pL	202	PEB	OD-C4D	3.90	1.31	1.23
29	jF	202	PEB	CHA-C1B	3.90	1.49	1.40
29	jI	202	PEB	CHA-C1B	3.90	1.49	1.40
31	UP	1001	CYC	C2C-C1C	-3.90	1.48	1.52
29	GA	202	PEB	C2C-C3C	3.90	1.49	1.37
29	GN	202	PEB	C2C-C3C	3.90	1.49	1.37
29	d7	201	PEB	C3B-C2B	3.90	1.45	1.36
29	d9	201	PEB	C3B-C2B	3.90	1.45	1.36
31	CP	1001	CYC	CHB-C4A	3.90	1.49	1.40
29	sJ	203	PEB	OD-C4D	3.90	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	sL	203	PEB	OD-C4D	3.90	1.31	1.23
29	hF	202	PEB	CHA-C1B	3.90	1.49	1.40
29	hI	202	PEB	CHA-C1B	3.90	1.49	1.40
29	IA	202	PEB	C2C-C3C	3.90	1.49	1.37
29	IN	202	PEB	C2C-C3C	3.90	1.49	1.37
29	D3	201	PEB	C1A-NA	-3.90	1.32	1.37
29	DO	201	PEB	C1A-NA	-3.90	1.32	1.37
29	OF	202	PEB	CHA-C1B	3.90	1.49	1.40
29	OI	202	PEB	CHA-C1B	3.90	1.49	1.40
29	OF	203	PEB	C1A-NA	-3.90	1.32	1.37
29	OI	203	PEB	C1A-NA	-3.90	1.32	1.37
29	bF	202	PEB	CHA-C1B	3.89	1.49	1.40
29	bI	202	PEB	CHA-C1B	3.89	1.49	1.40
29	FJ	202	PEB	OD-C4D	3.89	1.31	1.23
29	FL	202	PEB	OD-C4D	3.89	1.31	1.23
29	NF	1002	PEB	C1A-NA	-3.89	1.32	1.37
29	NI	1002	PEB	C1A-NA	-3.89	1.32	1.37
29	PJ	202	PEB	OD-C4D	3.89	1.31	1.23
29	PL	202	PEB	OD-C4D	3.89	1.31	1.23
29	f7	201	PEB	C3B-C2B	3.89	1.45	1.36
29	f9	201	PEB	C3B-C2B	3.89	1.45	1.36
29	uJ	201	PEB	OD-C4D	3.89	1.31	1.23
29	uL	201	PEB	OD-C4D	3.89	1.31	1.23
29	S7	201	PEB	C3B-C2B	3.89	1.45	1.36
29	S9	201	PEB	C3B-C2B	3.89	1.45	1.36
29	fF	202	PEB	CHA-C1B	3.89	1.49	1.40
29	fI	202	PEB	CHA-C1B	3.89	1.49	1.40
29	eF	203	PEB	CHA-C1B	3.89	1.49	1.40
29	eI	203	PEB	CHA-C1B	3.89	1.49	1.40
29	DF	1002	PEB	C1A-NA	-3.89	1.32	1.37
29	DI	1002	PEB	C1A-NA	-3.89	1.32	1.37
29	l7	201	PEB	C3B-C2B	3.89	1.45	1.36
29	l9	201	PEB	C3B-C2B	3.89	1.45	1.36
31	M9	1001	CYC	C1C-NC	-3.89	1.32	1.37
29	RJ	202	PEB	OD-C4D	3.89	1.31	1.23
29	TJ	202	PEB	OD-C4D	3.89	1.31	1.23
29	RL	202	PEB	OD-C4D	3.89	1.31	1.23
29	TL	202	PEB	OD-C4D	3.89	1.31	1.23
29	F3	201	PEB	C1A-NA	-3.89	1.32	1.37
29	FO	201	PEB	C1A-NA	-3.89	1.32	1.37
29	gF	203	PEB	CHA-C1B	3.89	1.49	1.40
29	gI	203	PEB	CHA-C1B	3.89	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	L1	1001	CYC	C2C-C1C	-3.88	1.48	1.52
31	LK	1001	CYC	C2C-C1C	-3.88	1.48	1.52
31	MP	1001	CYC	C2C-C1C	-3.88	1.48	1.52
29	TF	202	PEB	CHA-C1B	3.88	1.49	1.40
29	TI	202	PEB	CHA-C1B	3.88	1.49	1.40
29	ZJ	202	PEB	OD-C4D	3.88	1.31	1.23
29	ZL	202	PEB	OD-C4D	3.88	1.31	1.23
29	A1	302	PEB	CHA-C1B	3.88	1.49	1.40
29	AK	302	PEB	CHA-C1B	3.88	1.49	1.40
29	QR	202	PEB	C1A-NA	-3.88	1.32	1.37
29	WF	202	PEB	CHA-C1B	3.88	1.49	1.40
29	WI	202	PEB	CHA-C1B	3.88	1.49	1.40
29	HF	1002	PEB	C1A-NA	-3.87	1.32	1.37
29	HI	1002	PEB	C1A-NA	-3.87	1.32	1.37
29	NJ	202	PEB	OD-C4D	3.87	1.31	1.23
29	NL	202	PEB	OD-C4D	3.87	1.31	1.23
29	jJ	202	PEB	OD-C4D	3.87	1.31	1.23
29	jL	202	PEB	OD-C4D	3.87	1.31	1.23
29	LF	1002	PEB	C1A-NA	-3.87	1.32	1.37
29	LI	1002	PEB	C1A-NA	-3.87	1.32	1.37
29	G8	203	PEB	CHA-C1B	3.87	1.49	1.40
29	W2	202	PEB	C1A-NA	-3.87	1.32	1.37
29	mF	203	PEB	CHA-C1B	3.87	1.49	1.40
29	mI	203	PEB	CHA-C1B	3.87	1.49	1.40
31	OP	1001	CYC	C2C-C1C	-3.87	1.48	1.52
31	QP	1001	CYC	C2C-C1C	-3.87	1.48	1.52
29	VF	203	PEB	CHA-C1B	3.87	1.49	1.40
29	VI	203	PEB	CHA-C1B	3.87	1.49	1.40
29	TB	201	PEB	CHA-C1B	3.87	1.49	1.40
29	TM	201	PEB	CHA-C1B	3.87	1.49	1.40
31	DP	1001	CYC	C2C-C1C	-3.87	1.48	1.52
29	g1	201	PEB	C1A-NA	-3.87	1.32	1.37
29	gK	201	PEB	C1A-NA	-3.87	1.32	1.37
29	PF	203	PEB	CHA-C1B	3.87	1.49	1.40
29	PI	203	PEB	CHA-C1B	3.87	1.49	1.40
31	oP	1001	CYC	C2C-C1C	-3.86	1.48	1.52
29	aF	202	PEB	C1A-NA	-3.86	1.32	1.37
29	aI	202	PEB	C1A-NA	-3.86	1.32	1.37
31	HK	1001	CYC	CHB-C4A	3.86	1.49	1.40
31	jP	1001	CYC	C2C-C1C	-3.86	1.48	1.52
29	aF	203	PEB	CHA-C1B	3.86	1.49	1.40
29	aI	203	PEB	CHA-C1B	3.86	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L3	201	PEB	C1A-NA	-3.86	1.32	1.37
29	LO	201	PEB	C1A-NA	-3.86	1.32	1.37
29	m7	201	PEB	C1A-NA	-3.86	1.32	1.37
29	m9	201	PEB	C1A-NA	-3.86	1.32	1.37
29	iB	201	PEB	CHA-C1B	3.86	1.49	1.40
29	RF	202	PEB	CHA-C1B	3.86	1.49	1.40
29	RI	202	PEB	CHA-C1B	3.86	1.49	1.40
29	iM	201	PEB	CHA-C1B	3.86	1.49	1.40
31	M7	1001	CYC	C1C-NC	-3.85	1.32	1.37
31	1P	1002	CYC	C1C-NC	-3.85	1.32	1.37
29	i7	201	PEB	C1A-NA	-3.85	1.32	1.37
29	i9	201	PEB	C1A-NA	-3.85	1.32	1.37
31	uP	1001	CYC	C2C-C1C	-3.85	1.48	1.52
29	PB	201	PEB	CHA-C1B	3.85	1.49	1.40
29	PM	201	PEB	CHA-C1B	3.85	1.49	1.40
29	NB	201	PEB	CHA-C1B	3.85	1.49	1.40
29	NM	201	PEB	CHA-C1B	3.85	1.49	1.40
31	H1	1001	CYC	CHB-C4A	3.85	1.49	1.40
29	cF	202	PEB	CHA-C1B	3.85	1.49	1.40
29	cI	202	PEB	CHA-C1B	3.85	1.49	1.40
29	L8	203	PEB	CHA-C1B	3.85	1.49	1.40
29	iF	203	PEB	CHA-C1B	3.85	1.49	1.40
29	iI	203	PEB	CHA-C1B	3.85	1.49	1.40
29	kF	203	PEB	CHA-C1B	3.85	1.49	1.40
29	kI	203	PEB	CHA-C1B	3.85	1.49	1.40
29	V7	201	PEB	C1A-NA	-3.85	1.32	1.37
29	V9	201	PEB	C1A-NA	-3.85	1.32	1.37
29	B8	203	PEB	CHA-C1B	3.85	1.49	1.40
31	XP	1001	CYC	C2C-C1C	-3.84	1.48	1.52
29	H3	201	PEB	C1A-NA	-3.84	1.32	1.37
29	HO	201	PEB	C1A-NA	-3.84	1.32	1.37
29	g7	201	PEB	C1A-NA	-3.84	1.32	1.37
29	g9	201	PEB	C1A-NA	-3.84	1.32	1.37
29	RB	201	PEB	CHA-C1B	3.84	1.49	1.40
29	RM	201	PEB	CHA-C1B	3.84	1.49	1.40
29	YF	203	PEB	CHA-C1B	3.84	1.49	1.40
29	YI	203	PEB	CHA-C1B	3.84	1.49	1.40
29	c7	201	PEB	C1A-NA	-3.84	1.32	1.37
29	e7	201	PEB	C1A-NA	-3.84	1.32	1.37
29	c9	201	PEB	C1A-NA	-3.84	1.32	1.37
29	e9	201	PEB	C1A-NA	-3.84	1.32	1.37
29	G5	203	PEB	CHA-C1B	3.84	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	iI	201	PEB	C1A-NA	-3.84	1.32	1.37
29	iK	201	PEB	C1A-NA	-3.84	1.32	1.37
31	hP	1001	CYC	C2C-C1C	-3.84	1.48	1.52
29	VF	202	PEB	C1A-NA	-3.84	1.32	1.37
29	VI	202	PEB	C1A-NA	-3.84	1.32	1.37
31	NK	1001	CYC	C2C-C1C	-3.84	1.48	1.52
29	B5	203	PEB	CHA-C1B	3.83	1.49	1.40
29	O2	202	PEB	C1A-NA	-3.83	1.32	1.37
29	FB	201	PEB	CHA-C1B	3.83	1.49	1.40
29	FM	201	PEB	CHA-C1B	3.83	1.49	1.40
29	U2	202	PEB	C1A-NA	-3.83	1.32	1.37
29	B3	201	PEB	C1A-NA	-3.83	1.32	1.37
29	BO	201	PEB	C1A-NA	-3.83	1.32	1.37
29	JB	201	PEB	CHA-C1B	3.83	1.49	1.40
29	JM	201	PEB	CHA-C1B	3.83	1.49	1.40
29	YF	202	PEB	C1A-NA	-3.83	1.32	1.37
29	YI	202	PEB	C1A-NA	-3.83	1.32	1.37
29	xL	302	PEB	C1A-NA	-3.83	1.32	1.37
31	NK	1001	CYC	CHB-C4A	3.83	1.49	1.40
29	L5	203	PEB	CHA-C1B	3.83	1.49	1.40
31	HK	1001	CYC	C2C-C1C	-3.83	1.48	1.52
29	kF	202	PEB	C1A-NA	-3.83	1.32	1.37
29	kI	202	PEB	C1A-NA	-3.83	1.32	1.37
31	xP	1001	CYC	C1C-NC	-3.83	1.32	1.37
31	J1	1001	CYC	CHB-C4A	3.83	1.49	1.40
31	JK	1001	CYC	CHB-C4A	3.83	1.49	1.40
29	cB	201	PEB	CHA-C1B	3.83	1.49	1.40
29	kB	201	PEB	CHA-C1B	3.83	1.49	1.40
29	cM	201	PEB	CHA-C1B	3.83	1.49	1.40
29	kM	201	PEB	CHA-C1B	3.83	1.49	1.40
29	VB	201	PEB	CHA-C1B	3.83	1.49	1.40
29	VM	201	PEB	CHA-C1B	3.83	1.49	1.40
31	VP	1001	CYC	C1C-NC	-3.83	1.32	1.37
29	mB	201	PEB	CHA-C1B	3.82	1.49	1.40
29	mM	201	PEB	CHA-C1B	3.82	1.49	1.40
31	F1	1001	CYC	C2C-C1C	-3.82	1.48	1.52
31	FK	1001	CYC	C2C-C1C	-3.82	1.48	1.52
29	XB	201	PEB	CHA-C1B	3.82	1.49	1.40
29	XM	201	PEB	CHA-C1B	3.82	1.49	1.40
31	F1	1001	CYC	CHB-C4A	3.82	1.49	1.40
31	FK	1001	CYC	CHB-C4A	3.82	1.49	1.40
29	nJ	203	PEB	CHA-C1B	3.82	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nL	203	PEB	CHA-C1B	3.82	1.49	1.40
29	m1	201	PEB	C1A-NA	-3.82	1.32	1.37
29	xJ	302	PEB	C1A-NA	-3.82	1.32	1.37
29	mK	201	PEB	C1A-NA	-3.82	1.32	1.37
29	HB	201	PEB	CHA-C1B	3.82	1.49	1.40
29	HM	201	PEB	CHA-C1B	3.82	1.49	1.40
31	FP	1001	CYC	C2C-C1C	-3.82	1.48	1.52
29	eB	201	PEB	CHA-C1B	3.82	1.49	1.40
29	eM	201	PEB	CHA-C1B	3.82	1.49	1.40
29	F5	203	PEB	CHA-C1B	3.82	1.49	1.40
29	F8	203	PEB	CHA-C1B	3.82	1.49	1.40
31	D1	1001	CYC	CHB-C4A	3.82	1.49	1.40
31	DK	1001	CYC	CHB-C4A	3.82	1.49	1.40
29	UF	201	PEB	C1A-NA	-3.82	1.32	1.37
29	UI	201	PEB	C1A-NA	-3.82	1.32	1.37
31	J1	1001	CYC	C2C-C1C	-3.82	1.48	1.52
31	JK	1001	CYC	C2C-C1C	-3.82	1.48	1.52
29	A1	301	PEB	C1A-NA	-3.82	1.32	1.37
29	AK	301	PEB	C1A-NA	-3.82	1.32	1.37
29	ZB	201	PEB	CHA-C1B	3.82	1.49	1.40
29	ZM	201	PEB	CHA-C1B	3.82	1.49	1.40
31	H1	1001	CYC	C2C-C1C	-3.82	1.48	1.52
29	P7	201	PEB	C1A-NA	-3.82	1.32	1.37
29	P9	201	PEB	C1A-NA	-3.82	1.32	1.37
31	YP	1000	CYC	C1C-NC	-3.82	1.32	1.37
29	H8	203	PEB	CHA-C1B	3.82	1.49	1.40
31	I7	1001	CYC	C1C-NC	-3.81	1.32	1.37
31	I9	1001	CYC	C1C-NC	-3.81	1.32	1.37
31	C7	1001	CYC	C1C-NC	-3.81	1.32	1.37
31	C9	1001	CYC	C1C-NC	-3.81	1.32	1.37
29	mF	202	PEB	C1A-NA	-3.81	1.32	1.37
29	mI	202	PEB	C1A-NA	-3.81	1.32	1.37
31	N1	1001	CYC	C2C-C1C	-3.81	1.48	1.52
29	P2	202	PEB	CHA-C1B	3.81	1.49	1.40
29	PR	202	PEB	CHA-C1B	3.81	1.49	1.40
29	LB	201	PEB	CHA-C1B	3.81	1.49	1.40
29	LM	201	PEB	CHA-C1B	3.81	1.49	1.40
29	S2	202	PEB	C1A-NA	-3.81	1.32	1.37
31	N1	1001	CYC	CHB-C4A	3.81	1.49	1.40
29	T7	201	PEB	C1A-NA	-3.81	1.32	1.37
29	T9	201	PEB	C1A-NA	-3.81	1.32	1.37
31	L1	1001	CYC	CHB-C4A	3.81	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	LK	1001	CYC	CHB-C4A	3.81	1.49	1.40
29	dF	201	PEB	C1A-NA	-3.81	1.32	1.37
29	dI	201	PEB	C1A-NA	-3.81	1.32	1.37
29	R7	201	PEB	C1A-NA	-3.81	1.32	1.37
29	R9	201	PEB	C1A-NA	-3.81	1.32	1.37
29	gF	202	PEB	C1A-NA	-3.81	1.32	1.37
29	gI	202	PEB	C1A-NA	-3.81	1.32	1.37
29	k7	201	PEB	C1A-NA	-3.81	1.32	1.37
29	k9	201	PEB	C1A-NA	-3.81	1.32	1.37
29	iF	202	PEB	C1A-NA	-3.81	1.32	1.37
29	iI	202	PEB	C1A-NA	-3.81	1.32	1.37
29	vJ	202	PEB	CHA-C1B	3.81	1.49	1.40
29	vL	202	PEB	CHA-C1B	3.81	1.49	1.40
29	DB	201	PEB	CHA-C1B	3.80	1.49	1.40
29	DM	201	PEB	CHA-C1B	3.80	1.49	1.40
29	VR	203	PEB	CHA-C1B	3.80	1.49	1.40
29	WR	202	PEB	C1A-NA	-3.80	1.32	1.37
29	dJ	203	PEB	CHA-C1B	3.80	1.49	1.40
29	dL	203	PEB	CHA-C1B	3.80	1.49	1.40
29	MG	404	PEB	C1A-NA	-3.80	1.32	1.37
29	R1	201	PEB	C1A-NA	-3.80	1.32	1.37
29	RK	201	PEB	C1A-NA	-3.80	1.32	1.37
29	V2	203	PEB	CHA-C1B	3.80	1.49	1.40
29	a7	201	PEB	C1A-NA	-3.80	1.32	1.37
29	a9	201	PEB	C1A-NA	-3.80	1.32	1.37
29	DJ	202	PEB	CHA-C1B	3.80	1.49	1.40
29	DL	202	PEB	CHA-C1B	3.80	1.49	1.40
29	V1	201	PEB	C1A-NA	-3.80	1.32	1.37
29	c1	201	PEB	C1A-NA	-3.80	1.32	1.37
29	VK	201	PEB	C1A-NA	-3.80	1.32	1.37
29	cK	201	PEB	C1A-NA	-3.80	1.32	1.37
31	sP	1001	CYC	C2C-C1C	-3.80	1.48	1.52
31	oP	1001	CYC	CHB-C4A	3.79	1.49	1.40
29	UJ	201	PEB	C3B-C2B	3.79	1.44	1.36
29	UL	201	PEB	C3B-C2B	3.79	1.44	1.36
29	M3	203	PEB	C1A-NA	-3.79	1.32	1.37
29	MO	203	PEB	C1A-NA	-3.79	1.32	1.37
29	JJ	203	PEB	CHA-C1B	3.79	1.49	1.40
29	JL	203	PEB	CHA-C1B	3.79	1.49	1.40
31	fP	1001	CYC	CHB-C4A	3.79	1.49	1.40
29	a1	201	PEB	C1A-NA	-3.79	1.32	1.37
29	aK	201	PEB	C1A-NA	-3.79	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	SJ	201	PEB	C3B-C2B	3.79	1.44	1.36
29	SL	201	PEB	C3B-C2B	3.79	1.44	1.36
29	X2	202	PEB	CHA-C1B	3.79	1.49	1.40
29	XR	203	PEB	CHA-C1B	3.79	1.49	1.40
29	eF	202	PEB	C1A-NA	-3.79	1.32	1.37
29	eI	202	PEB	C1A-NA	-3.79	1.32	1.37
29	fJ	203	PEB	CHA-C1B	3.79	1.49	1.40
29	fL	203	PEB	CHA-C1B	3.79	1.49	1.40
31	sP	1001	CYC	CHB-C4A	3.79	1.49	1.40
29	H5	203	PEB	CHA-C1B	3.79	1.49	1.40
29	e1	201	PEB	C1A-NA	-3.79	1.32	1.37
29	Y7	201	PEB	C1A-NA	-3.79	1.32	1.37
29	Y9	201	PEB	C1A-NA	-3.79	1.32	1.37
29	PF	202	PEB	C1A-NA	-3.79	1.32	1.37
29	PI	202	PEB	C1A-NA	-3.79	1.32	1.37
29	eK	201	PEB	C1A-NA	-3.79	1.32	1.37
29	T1	201	PEB	C1A-NA	-3.79	1.32	1.37
29	TK	201	PEB	C1A-NA	-3.79	1.32	1.37
31	E7	1001	CYC	C1C-NC	-3.79	1.32	1.37
31	E9	1001	CYC	C1C-NC	-3.79	1.32	1.37
31	UP	1001	CYC	CHB-C4A	3.79	1.49	1.40
29	gB	201	PEB	CHA-C1B	3.79	1.49	1.40
29	gM	201	PEB	CHA-C1B	3.79	1.49	1.40
29	k1	201	PEB	C1A-NA	-3.79	1.32	1.37
29	kK	201	PEB	C1A-NA	-3.79	1.32	1.37
31	K7	1001	CYC	C1C-NC	-3.79	1.32	1.37
31	K9	1001	CYC	C1C-NC	-3.78	1.32	1.37
29	K5	203	PEB	CHA-C1B	3.78	1.49	1.40
29	K8	203	PEB	CHA-C1B	3.78	1.49	1.40
31	SP	1001	CYC	CHB-C4A	3.78	1.49	1.40
29	MJ	201	PEB	C3B-C2B	3.78	1.44	1.36
29	ML	201	PEB	C3B-C2B	3.78	1.44	1.36
29	VJ	202	PEB	CHA-C1B	3.78	1.49	1.40
29	ZJ	203	PEB	CHA-C1B	3.78	1.49	1.40
29	VL	202	PEB	CHA-C1B	3.78	1.49	1.40
29	ZL	203	PEB	CHA-C1B	3.78	1.49	1.40
31	IP	1001	CYC	CHB-C4A	3.78	1.49	1.40
31	1P	1001	CYC	C2C-C1C	-3.78	1.48	1.52
29	SR	202	PEB	C1A-NA	-3.78	1.32	1.37
31	G7	1001	CYC	C1C-NC	-3.78	1.32	1.37
29	N3	203	PEB	C1A-NA	-3.78	1.32	1.37
31	OP	1001	CYC	CHB-C4A	3.78	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	sJ	201	PEB	C3B-C2B	3.78	1.44	1.36
29	sL	201	PEB	C3B-C2B	3.78	1.44	1.36
29	FJ	203	PEB	CHA-C1B	3.78	1.49	1.40
29	FL	203	PEB	CHA-C1B	3.78	1.49	1.40
31	MP	1001	CYC	CHB-C4A	3.78	1.49	1.40
31	uP	1001	CYC	CHB-C4A	3.78	1.49	1.40
29	PJ	203	PEB	CHA-C1B	3.78	1.49	1.40
29	PL	203	PEB	CHA-C1B	3.78	1.49	1.40
29	N2	203	PEB	CHA-C1B	3.78	1.49	1.40
29	NR	203	PEB	CHA-C1B	3.78	1.49	1.40
31	FP	1001	CYC	CHB-C4A	3.78	1.49	1.40
31	jP	1001	CYC	CHB-C4A	3.77	1.49	1.40
31	DP	1001	CYC	CHB-C4A	3.77	1.49	1.40
31	BP	1001	CYC	CHB-C4A	3.77	1.49	1.40
29	wL	302	PEB	C1A-NA	-3.77	1.32	1.37
29	hJ	203	PEB	CHA-C1B	3.77	1.49	1.40
29	tJ	202	PEB	CHA-C1B	3.77	1.49	1.40
29	hL	203	PEB	CHA-C1B	3.77	1.49	1.40
29	tL	202	PEB	CHA-C1B	3.77	1.49	1.40
31	nP	1001	CYC	CHB-C4A	3.77	1.49	1.40
29	TJ	203	PEB	CHA-C1B	3.77	1.49	1.40
29	TL	203	PEB	CHA-C1B	3.77	1.49	1.40
29	Q2	202	PEB	C1A-NA	-3.77	1.32	1.37
29	lJ	203	PEB	CHA-C1B	3.77	1.49	1.40
29	lL	203	PEB	CHA-C1B	3.77	1.49	1.40
29	MQ	406	PEB	C1A-NA	-3.77	1.32	1.37
31	hP	1001	CYC	CHB-C4A	3.77	1.49	1.40
29	NO	203	PEB	C1A-NA	-3.77	1.32	1.37
29	QJ	201	PEB	C3B-C2B	3.77	1.44	1.36
29	QL	201	PEB	C3B-C2B	3.77	1.44	1.36
29	BJ	203	PEB	CHA-C1B	3.77	1.49	1.40
29	BL	203	PEB	CHA-C1B	3.77	1.49	1.40
29	KJ	201	PEB	C3B-C2B	3.77	1.44	1.36
29	KL	201	PEB	C3B-C2B	3.77	1.44	1.36
29	bJ	203	PEB	CHA-C1B	3.77	1.49	1.40
29	bL	203	PEB	CHA-C1B	3.77	1.49	1.40
29	wJ	302	PEB	C1A-NA	-3.77	1.32	1.37
29	HJ	202	PEB	CHA-C1B	3.76	1.49	1.40
29	HL	202	PEB	CHA-C1B	3.76	1.49	1.40
29	A7	304	PEB	CHA-C1B	3.76	1.49	1.40
29	A9	304	PEB	CHA-C1B	3.76	1.49	1.40
31	HP	1001	CYC	CHB-C4A	3.76	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	kP	1001	CYC	CHB-C4A	3.76	1.49	1.40
29	LJ	202	PEB	CHA-C1B	3.76	1.49	1.40
29	LL	202	PEB	CHA-C1B	3.76	1.49	1.40
29	AB	303	PEB	CHA-C1B	3.76	1.49	1.40
29	uJ	202	PEB	C3B-C2B	3.76	1.44	1.36
29	uL	202	PEB	C3B-C2B	3.76	1.44	1.36
31	G9	1001	CYC	C1C-NC	-3.76	1.32	1.37
29	AM	303	PEB	CHA-C1B	3.75	1.49	1.40
31	qP	1001	CYC	CHB-C4A	3.75	1.49	1.40
31	1P	1001	CYC	CHB-C4A	3.75	1.49	1.40
31	XP	1001	CYC	CHB-C4A	3.75	1.49	1.40
29	oJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	oL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	AJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	AL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	T2	203	PEB	CHA-C1B	3.75	1.49	1.40
29	A5	203	PEB	CHA-C1B	3.75	1.49	1.40
29	A8	203	PEB	CHA-C1B	3.75	1.49	1.40
29	RJ	203	PEB	CHA-C1B	3.75	1.49	1.40
29	pJ	203	PEB	CHA-C1B	3.75	1.49	1.40
29	RL	203	PEB	CHA-C1B	3.75	1.49	1.40
29	pL	203	PEB	CHA-C1B	3.75	1.49	1.40
31	QP	1001	CYC	CHB-C4A	3.75	1.49	1.40
31	D1	1001	CYC	C2C-C1C	-3.75	1.48	1.52
29	aJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	aL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	J1	1002	PEB	CHA-C1B	3.75	1.49	1.40
29	NJ	203	PEB	CHA-C1B	3.75	1.49	1.40
29	JK	1002	PEB	CHA-C1B	3.75	1.49	1.40
29	NL	203	PEB	CHA-C1B	3.75	1.49	1.40
29	GB	201	PEB	C1A-NA	-3.75	1.32	1.37
29	GM	201	PEB	C1A-NA	-3.75	1.32	1.37
29	EJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	EL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	R2	203	PEB	CHA-C1B	3.75	1.49	1.40
29	MN	405	PEB	CHA-C1B	3.75	1.49	1.40
29	GJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	GL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	CJ	201	PEB	C3B-C2B	3.75	1.44	1.36
29	CL	201	PEB	C3B-C2B	3.75	1.44	1.36
29	XJ	203	PEB	CHA-C1B	3.74	1.49	1.40
29	XL	203	PEB	CHA-C1B	3.74	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MA	405	PEB	CHA-C1B	3.74	1.49	1.40
31	wP	1001	CYC	CHB-C4A	3.74	1.49	1.40
29	jB	201	PEB	C1A-NA	-3.74	1.32	1.37
29	jM	201	PEB	C1A-NA	-3.74	1.32	1.37
29	TR	203	PEB	CHA-C1B	3.74	1.49	1.40
29	cJ	201	PEB	C3B-C2B	3.74	1.44	1.36
29	cL	201	PEB	C3B-C2B	3.74	1.44	1.36
29	Y1	201	PEB	C1A-NA	-3.74	1.32	1.37
29	YK	201	PEB	C1A-NA	-3.74	1.32	1.37
29	YJ	201	PEB	C3B-C2B	3.74	1.44	1.36
29	YL	201	PEB	C3B-C2B	3.74	1.44	1.36
29	OJ	201	PEB	C3B-C2B	3.74	1.44	1.36
29	OL	201	PEB	C3B-C2B	3.74	1.44	1.36
29	IJ	201	PEB	C3B-C2B	3.74	1.44	1.36
29	IL	201	PEB	C3B-C2B	3.74	1.44	1.36
29	C5	203	PEB	CHA-C1B	3.74	1.49	1.40
29	C8	203	PEB	CHA-C1B	3.74	1.49	1.40
29	WJ	202	PEB	C3B-C2B	3.74	1.44	1.36
29	WL	202	PEB	C3B-C2B	3.74	1.44	1.36
29	jJ	203	PEB	CHA-C1B	3.74	1.49	1.40
29	jL	203	PEB	CHA-C1B	3.74	1.49	1.40
29	P1	201	PEB	C1A-NA	-3.74	1.32	1.37
29	PK	201	PEB	C1A-NA	-3.74	1.32	1.37
29	I5	203	PEB	CHA-C1B	3.74	1.49	1.40
29	I8	203	PEB	CHA-C1B	3.74	1.49	1.40
29	qJ	201	PEB	C3B-C2B	3.73	1.44	1.36
29	qL	201	PEB	C3B-C2B	3.73	1.44	1.36
29	rJ	203	PEB	CHA-C1B	3.73	1.49	1.40
29	rL	203	PEB	CHA-C1B	3.73	1.49	1.40
29	RR	203	PEB	CHA-C1B	3.73	1.49	1.40
29	OF	201	PEB	C2A-C1A	-3.73	1.48	1.52
29	OI	201	PEB	C2A-C1A	-3.73	1.48	1.52
29	H1	1002	PEB	CHA-C1B	3.73	1.49	1.40
29	eJ	201	PEB	C3B-C2B	3.72	1.44	1.36
29	eL	201	PEB	C3B-C2B	3.72	1.44	1.36
29	kJ	201	PEB	C3B-C2B	3.72	1.44	1.36
29	kL	201	PEB	C3B-C2B	3.72	1.44	1.36
29	NK	1002	PEB	CHA-C1B	3.72	1.49	1.40
29	TF	202	PEB	C2C-C3C	3.72	1.48	1.37
29	TI	202	PEB	C2C-C3C	3.72	1.48	1.37
29	fB	201	PEB	C1A-NA	-3.72	1.32	1.37
29	fM	201	PEB	C1A-NA	-3.72	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	N1	1002	PEB	CHA-C1B	3.72	1.49	1.40
29	LG	203	PEB	CHA-C1B	3.72	1.49	1.40
29	iJ	201	PEB	C3B-C2B	3.72	1.44	1.36
29	iL	201	PEB	C3B-C2B	3.72	1.44	1.36
29	mJ	201	PEB	C3B-C2B	3.72	1.44	1.36
29	mL	201	PEB	C3B-C2B	3.72	1.44	1.36
29	LQ	202	PEB	CHA-C1B	3.72	1.49	1.40
29	RF	202	PEB	C2C-C3C	3.72	1.48	1.37
29	RI	202	PEB	C2C-C3C	3.72	1.48	1.37
29	UR	202	PEB	C1A-NA	-3.72	1.32	1.37
29	QB	203	PEB	C1A-NA	-3.72	1.32	1.37
29	QM	203	PEB	C1A-NA	-3.72	1.32	1.37
29	FQ	203	PEB	CHA-C1B	3.72	1.49	1.40
29	MB	201	PEB	C1A-NA	-3.71	1.32	1.37
29	MM	201	PEB	C1A-NA	-3.71	1.32	1.37
29	WF	201	PEB	C2A-C1A	-3.71	1.48	1.52
29	WI	201	PEB	C2A-C1A	-3.71	1.48	1.52
29	RF	202	PEB	C1A-NA	-3.71	1.32	1.37
29	RI	202	PEB	C1A-NA	-3.71	1.32	1.37
29	SB	201	PEB	C1A-NA	-3.71	1.32	1.37
29	SM	201	PEB	C1A-NA	-3.71	1.32	1.37
29	eF	203	PEB	C2C-C3C	3.71	1.48	1.37
29	eI	203	PEB	C2C-C3C	3.71	1.48	1.37
29	gJ	201	PEB	C3B-C2B	3.71	1.44	1.36
29	gL	201	PEB	C3B-C2B	3.71	1.44	1.36
29	KC	202	PEB	C2C-C3C	3.71	1.48	1.37
29	KE	202	PEB	C2C-C3C	3.71	1.48	1.37
29	UF	202	PEB	C2A-C1A	-3.71	1.48	1.52
29	UI	202	PEB	C2A-C1A	-3.71	1.48	1.52
29	IB	201	PEB	C1A-NA	-3.71	1.32	1.37
29	IM	201	PEB	C1A-NA	-3.71	1.32	1.37
29	J5	201	PEB	C1B-C2B	3.71	1.53	1.45
29	J8	201	PEB	C1B-C2B	3.71	1.53	1.45
29	F1	1002	PEB	CHA-C1B	3.71	1.49	1.40
29	FK	1002	PEB	CHA-C1B	3.71	1.49	1.40
29	Y1	202	PEB	C1A-NA	-3.71	1.32	1.37
29	YK	202	PEB	C1A-NA	-3.71	1.32	1.37
29	L8	201	PEB	C1A-NA	-3.70	1.32	1.37
29	L1	1002	PEB	CHA-C1B	3.70	1.49	1.40
29	LK	1002	PEB	CHA-C1B	3.70	1.49	1.40
29	FG	203	PEB	CHA-C1B	3.70	1.49	1.40
29	B8	201	PEB	C1A-NA	-3.70	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HQ	203	PEB	CHA-C1B	3.70	1.49	1.40
29	MA	401	PEB	C1A-NA	-3.70	1.32	1.37
29	LC	201	PEB	CHA-C1B	3.70	1.49	1.40
29	LE	201	PEB	CHA-C1B	3.70	1.49	1.40
29	GC	201	PEB	C2C-C3C	3.70	1.48	1.37
29	GE	201	PEB	C2C-C3C	3.70	1.48	1.37
29	CB	201	PEB	C1A-NA	-3.70	1.32	1.37
29	CM	201	PEB	C1A-NA	-3.70	1.32	1.37
29	eF	203	PEB	C1A-NA	-3.70	1.32	1.37
29	eI	203	PEB	C1A-NA	-3.70	1.32	1.37
29	EB	201	PEB	C1A-NA	-3.70	1.32	1.37
29	EM	201	PEB	C1A-NA	-3.70	1.32	1.37
29	aF	203	PEB	C2C-C3C	3.70	1.48	1.37
29	aI	203	PEB	C2C-C3C	3.70	1.48	1.37
29	h1	202	PEB	C1A-NA	-3.70	1.32	1.37
29	L5	201	PEB	C1A-NA	-3.70	1.32	1.37
29	hK	202	PEB	C1A-NA	-3.70	1.32	1.37
29	HG	203	PEB	CHA-C1B	3.69	1.49	1.40
29	DK	1002	PEB	CHA-C1B	3.69	1.49	1.40
29	DB	202	PEB	C1A-NA	-3.69	1.32	1.37
29	WB	201	PEB	C1A-NA	-3.69	1.32	1.37
29	DM	202	PEB	C1A-NA	-3.69	1.32	1.37
29	WM	201	PEB	C1A-NA	-3.69	1.32	1.37
29	c7	203	PEB	CHA-C1B	3.69	1.49	1.40
29	c9	203	PEB	CHA-C1B	3.69	1.49	1.40
29	VF	203	PEB	C2C-C3C	3.69	1.48	1.37
29	VI	203	PEB	C2C-C3C	3.69	1.48	1.37
29	M2	202	PEB	C1A-NA	-3.69	1.32	1.37
29	ID	203	PEB	C1A-NA	-3.69	1.32	1.37
29	KD	203	PEB	C1A-NA	-3.69	1.32	1.37
29	D1	1002	PEB	CHA-C1B	3.69	1.49	1.40
29	BA	202	PEB	C1A-NA	-3.69	1.32	1.37
29	BN	202	PEB	C1A-NA	-3.69	1.32	1.37
29	iF	203	PEB	C2C-C3C	3.69	1.48	1.37
29	iI	203	PEB	C2C-C3C	3.69	1.48	1.37
29	iF	203	PEB	C1A-NA	-3.69	1.32	1.37
29	iI	203	PEB	C1A-NA	-3.69	1.32	1.37
29	hJ	202	PEB	C1A-NA	-3.69	1.32	1.37
29	hL	202	PEB	C1A-NA	-3.69	1.32	1.37
29	W1	201	PEB	C2A-C1A	-3.69	1.48	1.52
29	l1	201	PEB	C2A-C1A	-3.69	1.48	1.52
29	WK	201	PEB	C2A-C1A	-3.69	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	IK	201	PEB	C2A-C1A	-3.69	1.48	1.52
29	DG	203	PEB	CHA-C1B	3.69	1.49	1.40
29	AC	201	PEB	C2C-C3C	3.69	1.48	1.37
29	AE	201	PEB	C2C-C3C	3.69	1.48	1.37
29	dB	201	PEB	C1A-NA	-3.69	1.32	1.37
29	lB	201	PEB	C1A-NA	-3.69	1.32	1.37
29	dM	201	PEB	C1A-NA	-3.69	1.32	1.37
29	lM	201	PEB	C1A-NA	-3.69	1.32	1.37
29	l1	202	PEB	C1A-NA	-3.69	1.32	1.37
29	N3	201	PEB	C1A-NA	-3.69	1.32	1.37
29	KB	203	PEB	C1A-NA	-3.69	1.32	1.37
29	RJ	202	PEB	C1A-NA	-3.69	1.32	1.37
29	IK	202	PEB	C1A-NA	-3.69	1.32	1.37
29	RL	202	PEB	C1A-NA	-3.69	1.32	1.37
29	KM	203	PEB	C1A-NA	-3.69	1.32	1.37
29	EA	201	PEB	C2C-C3C	3.69	1.48	1.37
29	cF	202	PEB	C2C-C3C	3.69	1.48	1.37
29	cI	202	PEB	C2C-C3C	3.69	1.48	1.37
29	EN	201	PEB	C2C-C3C	3.69	1.48	1.37
29	MN	401	PEB	C1A-NA	-3.69	1.32	1.37
29	BQ	203	PEB	CHA-C1B	3.69	1.49	1.40
29	h1	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	hK	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	IC	201	PEB	C2C-C3C	3.68	1.48	1.37
29	IE	201	PEB	C2C-C3C	3.68	1.48	1.37
29	YF	203	PEB	C2C-C3C	3.68	1.48	1.37
29	YI	203	PEB	C2C-C3C	3.68	1.48	1.37
29	E4	203	PEB	C1A-NA	-3.68	1.32	1.37
29	MD	203	PEB	C1A-NA	-3.68	1.32	1.37
29	IA	201	PEB	C2C-C3C	3.68	1.48	1.37
29	IN	201	PEB	C2C-C3C	3.68	1.48	1.37
29	FA	202	PEB	C1A-NA	-3.68	1.32	1.37
29	FN	202	PEB	C1A-NA	-3.68	1.32	1.37
29	PF	203	PEB	C2C-C3C	3.68	1.48	1.37
29	PI	203	PEB	C2C-C3C	3.68	1.48	1.37
29	KA	201	PEB	C2C-C3C	3.68	1.48	1.37
29	KN	201	PEB	C2C-C3C	3.68	1.48	1.37
29	F5	201	PEB	C1A-NA	-3.68	1.32	1.37
29	F8	201	PEB	C1A-NA	-3.68	1.32	1.37
29	i7	203	PEB	CHA-C1B	3.68	1.49	1.40
29	i9	203	PEB	CHA-C1B	3.68	1.49	1.40
29	BG	203	PEB	CHA-C1B	3.68	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FC	201	PEB	CHA-C1B	3.68	1.49	1.40
29	FE	201	PEB	CHA-C1B	3.68	1.49	1.40
29	C3	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	CO	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	kF	203	PEB	C2C-C3C	3.68	1.48	1.37
29	kI	203	PEB	C2C-C3C	3.68	1.48	1.37
29	CA	201	PEB	C2C-C3C	3.68	1.48	1.37
29	gF	203	PEB	C2C-C3C	3.68	1.48	1.37
29	gI	203	PEB	C2C-C3C	3.68	1.48	1.37
29	CN	201	PEB	C2C-C3C	3.68	1.48	1.37
29	AF	305	PEB	CHA-C1B	3.68	1.49	1.40
29	AI	305	PEB	CHA-C1B	3.68	1.49	1.40
29	YB	202	PEB	C1A-NA	-3.68	1.32	1.37
29	YM	202	PEB	C1A-NA	-3.68	1.32	1.37
29	RB	202	PEB	C1A-NA	-3.68	1.32	1.37
29	RM	202	PEB	C1A-NA	-3.68	1.32	1.37
29	AA	201	PEB	C2C-C3C	3.68	1.48	1.37
29	AN	201	PEB	C2C-C3C	3.68	1.48	1.37
29	O1	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	d1	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	OK	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	dK	201	PEB	C2A-C1A	-3.68	1.48	1.52
29	b1	202	PEB	C1A-NA	-3.67	1.32	1.37
29	A5	201	PEB	C1A-NA	-3.67	1.32	1.37
29	A8	201	PEB	C1A-NA	-3.67	1.32	1.37
29	bK	202	PEB	C1A-NA	-3.67	1.32	1.37
29	AB	302	PEB	CHA-C1B	3.67	1.49	1.40
29	R1	203	PEB	C1A-NA	-3.67	1.32	1.37
29	jJ	202	PEB	C1A-NA	-3.67	1.32	1.37
29	RK	203	PEB	C1A-NA	-3.67	1.32	1.37
29	jL	202	PEB	C1A-NA	-3.67	1.32	1.37
29	QF	201	PEB	C2A-C1A	-3.67	1.48	1.52
29	QI	201	PEB	C2A-C1A	-3.67	1.48	1.52
29	EC	201	PEB	C2C-C3C	3.67	1.48	1.37
29	EE	201	PEB	C2C-C3C	3.67	1.48	1.37
29	a7	203	PEB	CHA-C1B	3.67	1.49	1.40
29	a9	203	PEB	CHA-C1B	3.67	1.49	1.40
29	f1	202	PEB	C1A-NA	-3.67	1.32	1.37
29	A7	301	PEB	C1A-NA	-3.67	1.32	1.37
29	A9	301	PEB	C1A-NA	-3.67	1.32	1.37
29	JA	202	PEB	C1A-NA	-3.67	1.32	1.37
29	fK	202	PEB	C1A-NA	-3.67	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JN	202	PEB	C1A-NA	-3.67	1.32	1.37
29	CC	201	PEB	C2C-C3C	3.67	1.48	1.37
29	CE	201	PEB	C2C-C3C	3.67	1.48	1.37
29	i1	203	PEB	C1A-NA	-3.67	1.32	1.37
29	YF	203	PEB	C1A-NA	-3.67	1.32	1.37
29	YI	203	PEB	C1A-NA	-3.67	1.32	1.37
29	fJ	202	PEB	C1A-NA	-3.67	1.32	1.37
29	iK	203	PEB	C1A-NA	-3.67	1.32	1.37
29	fL	202	PEB	C1A-NA	-3.67	1.32	1.37
29	UB	201	PEB	C1A-NA	-3.67	1.32	1.37
29	UM	201	PEB	C1A-NA	-3.67	1.32	1.37
29	JG	203	PEB	CHA-C1B	3.67	1.49	1.40
29	G5	201	PEB	C1A-NA	-3.67	1.32	1.37
29	mF	203	PEB	C2C-C3C	3.67	1.48	1.37
29	mI	203	PEB	C2C-C3C	3.67	1.48	1.37
29	HK	1002	PEB	CHA-C1B	3.67	1.49	1.40
29	hB	201	PEB	C1A-NA	-3.67	1.32	1.37
29	hM	201	PEB	C1A-NA	-3.67	1.32	1.37
29	TB	202	PEB	C1A-NA	-3.67	1.32	1.37
29	PF	203	PEB	C1A-NA	-3.67	1.32	1.37
29	PI	203	PEB	C1A-NA	-3.67	1.32	1.37
29	TM	202	PEB	C1A-NA	-3.67	1.32	1.37
29	T7	203	PEB	CHA-C1B	3.67	1.49	1.40
29	T9	203	PEB	CHA-C1B	3.67	1.49	1.40
29	LA	203	PEB	CHA-C1B	3.66	1.49	1.40
29	LN	203	PEB	CHA-C1B	3.66	1.49	1.40
29	e7	203	PEB	CHA-C1B	3.66	1.49	1.40
29	e9	203	PEB	CHA-C1B	3.66	1.49	1.40
29	A3	201	PEB	C2A-C1A	-3.66	1.48	1.52
29	AO	201	PEB	C2A-C1A	-3.66	1.48	1.52
29	P1	203	PEB	C1A-NA	-3.66	1.32	1.37
29	AJ	203	PEB	C1A-NA	-3.66	1.32	1.37
29	PK	203	PEB	C1A-NA	-3.66	1.32	1.37
29	AL	203	PEB	C1A-NA	-3.66	1.32	1.37
29	JC	201	PEB	CHA-C1B	3.66	1.49	1.40
29	JE	201	PEB	CHA-C1B	3.66	1.49	1.40
29	K5	201	PEB	C1A-NA	-3.66	1.32	1.37
29	NJ	202	PEB	C1A-NA	-3.66	1.32	1.37
29	NL	202	PEB	C1A-NA	-3.66	1.32	1.37
29	JQ	203	PEB	CHA-C1B	3.66	1.49	1.40
29	C5	203	PEB	C1A-NA	-3.66	1.32	1.37
29	G8	201	PEB	C1A-NA	-3.66	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	DQ	203	PEB	CHA-C1B	3.66	1.49	1.40
29	Q1	202	PEB	C1A-NA	-3.66	1.32	1.37
29	IJ	202	PEB	C1A-NA	-3.66	1.32	1.37
29	QK	202	PEB	C1A-NA	-3.66	1.32	1.37
29	IL	202	PEB	C1A-NA	-3.66	1.32	1.37
29	GA	201	PEB	C2C-C3C	3.66	1.48	1.37
29	GN	201	PEB	C2C-C3C	3.66	1.48	1.37
29	NJ	201	PEB	CHA-C1B	3.66	1.49	1.40
29	NL	201	PEB	CHA-C1B	3.66	1.49	1.40
29	aB	201	PEB	C1A-NA	-3.66	1.32	1.37
29	aM	201	PEB	C1A-NA	-3.66	1.32	1.37
29	NO	201	PEB	C1A-NA	-3.66	1.32	1.37
31	M1	1001	CYC	C1C-NC	-3.66	1.32	1.37
31	MK	1001	CYC	C1C-NC	-3.66	1.32	1.37
29	HA	202	PEB	C1A-NA	-3.66	1.32	1.37
29	PJ	202	PEB	C1A-NA	-3.66	1.32	1.37
29	PL	202	PEB	C1A-NA	-3.66	1.32	1.37
29	HN	202	PEB	C1A-NA	-3.66	1.32	1.37
29	H8	203	PEB	C1A-NA	-3.66	1.32	1.37
29	AM	302	PEB	CHA-C1B	3.66	1.49	1.40
29	g1	203	PEB	C1A-NA	-3.66	1.32	1.37
29	FJ	202	PEB	C1A-NA	-3.66	1.32	1.37
29	gK	203	PEB	C1A-NA	-3.66	1.32	1.37
29	FL	202	PEB	C1A-NA	-3.66	1.32	1.37
29	DA	203	PEB	CHA-C1B	3.66	1.49	1.40
29	DN	203	PEB	CHA-C1B	3.66	1.49	1.40
29	cF	202	PEB	C1A-NA	-3.65	1.32	1.37
29	cI	202	PEB	C1A-NA	-3.65	1.32	1.37
29	HJ	201	PEB	C1A-NA	-3.65	1.32	1.37
29	HL	201	PEB	C1A-NA	-3.65	1.32	1.37
29	a1	203	PEB	C1A-NA	-3.65	1.32	1.37
29	DA	202	PEB	C1A-NA	-3.65	1.32	1.37
29	ED	202	PEB	C1A-NA	-3.65	1.32	1.37
29	HG	201	PEB	C1A-NA	-3.65	1.32	1.37
29	aK	203	PEB	C1A-NA	-3.65	1.32	1.37
29	DN	202	PEB	C1A-NA	-3.65	1.32	1.37
29	HQ	201	PEB	C1A-NA	-3.65	1.32	1.37
29	e1	203	PEB	C1A-NA	-3.65	1.32	1.37
29	FB	202	PEB	C1A-NA	-3.65	1.32	1.37
29	uJ	201	PEB	C1A-NA	-3.65	1.32	1.37
29	eK	203	PEB	C1A-NA	-3.65	1.32	1.37
29	uL	201	PEB	C1A-NA	-3.65	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FM	202	PEB	C1A-NA	-3.65	1.32	1.37
29	DC	201	PEB	CHA-C1B	3.65	1.49	1.40
29	DE	201	PEB	CHA-C1B	3.65	1.49	1.40
29	QB	202	PEB	C1A-NA	-3.65	1.32	1.37
29	QM	202	PEB	C1A-NA	-3.65	1.32	1.37
29	j1	202	PEB	C1A-NA	-3.65	1.32	1.37
29	jK	202	PEB	C1A-NA	-3.65	1.32	1.37
29	K4	203	PEB	C1A-NA	-3.65	1.32	1.37
29	SF	201	PEB	C2A-C1A	-3.65	1.48	1.52
29	SI	201	PEB	C2A-C1A	-3.65	1.48	1.52
29	H5	201	PEB	C1A-NA	-3.65	1.32	1.37
29	A5	203	PEB	C1A-NA	-3.65	1.32	1.37
29	A8	203	PEB	C1A-NA	-3.65	1.32	1.37
29	KB	201	PEB	C1A-NA	-3.65	1.32	1.37
29	XJ	202	PEB	C1A-NA	-3.65	1.32	1.37
29	XL	202	PEB	C1A-NA	-3.65	1.32	1.37
29	KM	201	PEB	C1A-NA	-3.65	1.32	1.37
31	C1	1001	CYC	C1C-NC	-3.65	1.32	1.37
29	c1	203	PEB	C1A-NA	-3.65	1.32	1.37
29	M3	201	PEB	C1A-NA	-3.65	1.32	1.37
29	LB	202	PEB	C1A-NA	-3.65	1.32	1.37
29	TF	202	PEB	C1A-NA	-3.65	1.32	1.37
29	TI	202	PEB	C1A-NA	-3.65	1.32	1.37
29	cK	203	PEB	C1A-NA	-3.65	1.32	1.37
29	LM	202	PEB	C1A-NA	-3.65	1.32	1.37
29	MO	201	PEB	C1A-NA	-3.65	1.32	1.37
29	FG	201	PEB	C2C-C3C	3.65	1.48	1.37
29	FQ	201	PEB	C2C-C3C	3.65	1.48	1.37
29	LJ	201	PEB	CHA-C1B	3.65	1.49	1.40
29	LL	201	PEB	CHA-C1B	3.65	1.49	1.40
29	k1	203	PEB	C1A-NA	-3.65	1.32	1.37
29	H8	201	PEB	C1A-NA	-3.65	1.32	1.37
29	kK	203	PEB	C1A-NA	-3.65	1.32	1.37
29	L1	1002	PEB	C2C-C3C	3.64	1.48	1.37
29	LK	1002	PEB	C2C-C3C	3.64	1.48	1.37
29	U1	203	PEB	C1A-NA	-3.64	1.32	1.37
29	UK	203	PEB	C1A-NA	-3.64	1.32	1.37
29	vJ	201	PEB	CHA-C1B	3.64	1.49	1.40
29	vL	201	PEB	CHA-C1B	3.64	1.49	1.40
29	F1	1002	PEB	C4D-ND	3.64	1.40	1.35
29	FK	1002	PEB	C4D-ND	3.64	1.40	1.35
29	lF	201	PEB	C2A-C1A	-3.64	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	II	201	PEB	C2A-C1A	-3.64	1.48	1.52
29	VB	202	PEB	C1A-NA	-3.64	1.32	1.37
29	kB	202	PEB	C1A-NA	-3.64	1.32	1.37
29	VM	202	PEB	C1A-NA	-3.64	1.32	1.37
29	kM	202	PEB	C1A-NA	-3.64	1.32	1.37
29	HC	201	PEB	CHA-C1B	3.64	1.48	1.40
29	HE	201	PEB	CHA-C1B	3.64	1.48	1.40
29	HG	201	PEB	C2C-C3C	3.64	1.48	1.37
29	HQ	201	PEB	C2C-C3C	3.64	1.48	1.37
29	I8	201	PEB	C1A-NA	-3.64	1.32	1.37
29	MG	401	PEB	C1A-NA	-3.64	1.32	1.37
29	sJ	203	PEB	C1A-NA	-3.64	1.32	1.37
29	sL	203	PEB	C1A-NA	-3.64	1.32	1.37
29	bJ	201	PEB	CHA-C1B	3.64	1.48	1.40
29	bL	201	PEB	CHA-C1B	3.64	1.48	1.40
30	yJ	303	PUB	C3B-C2B	3.64	1.48	1.37
29	I5	201	PEB	C1A-NA	-3.64	1.32	1.37
29	m7	203	PEB	CHA-C1B	3.64	1.48	1.40
29	m9	203	PEB	CHA-C1B	3.64	1.48	1.40
29	LA	202	PEB	C1A-NA	-3.64	1.32	1.37
29	LN	202	PEB	C1A-NA	-3.64	1.32	1.37
29	PJ	201	PEB	CHA-C1B	3.64	1.48	1.40
29	VJ	201	PEB	CHA-C1B	3.64	1.48	1.40
29	PL	201	PEB	CHA-C1B	3.64	1.48	1.40
29	VL	201	PEB	CHA-C1B	3.64	1.48	1.40
29	I5	203	PEB	C1A-NA	-3.64	1.32	1.37
29	I8	203	PEB	C1A-NA	-3.64	1.32	1.37
29	gB	202	PEB	C1A-NA	-3.64	1.32	1.37
29	gM	202	PEB	C1A-NA	-3.64	1.32	1.37
29	T1	202	PEB	C1A-NA	-3.64	1.32	1.37
29	BJ	202	PEB	C1A-NA	-3.64	1.32	1.37
29	TK	202	PEB	C1A-NA	-3.64	1.32	1.37
29	BL	202	PEB	C1A-NA	-3.64	1.32	1.37
29	dJ	201	PEB	CHA-C1B	3.64	1.48	1.40
29	dL	201	PEB	CHA-C1B	3.64	1.48	1.40
29	GG	201	PEB	C1A-NA	-3.64	1.32	1.37
29	GQ	201	PEB	C1A-NA	-3.64	1.32	1.37
29	L1	1002	PEB	C4D-ND	3.64	1.40	1.35
29	LK	1002	PEB	C4D-ND	3.64	1.40	1.35
29	F1	1002	PEB	C2C-C3C	3.64	1.48	1.37
29	FK	1002	PEB	C2C-C3C	3.64	1.48	1.37
29	LG	201	PEB	C2C-C3C	3.64	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MQ	402	PEB	C2C-C3C	3.64	1.48	1.37
29	ZB	202	PEB	C1A-NA	-3.64	1.32	1.37
29	aB	203	PEB	C1A-NA	-3.64	1.32	1.37
29	ZM	202	PEB	C1A-NA	-3.64	1.32	1.37
29	aM	203	PEB	C1A-NA	-3.64	1.32	1.37
29	N2	203	PEB	C1A-NA	-3.64	1.32	1.37
29	cB	202	PEB	C1A-NA	-3.63	1.32	1.37
29	cM	202	PEB	C1A-NA	-3.63	1.32	1.37
29	jJ	201	PEB	CHA-C1B	3.63	1.48	1.40
29	jL	201	PEB	CHA-C1B	3.63	1.48	1.40
29	MQ	403	PEB	C1A-NA	-3.63	1.32	1.37
29	hJ	201	PEB	CHA-C1B	3.63	1.48	1.40
29	hL	201	PEB	CHA-C1B	3.63	1.48	1.40
29	DK	1002	PEB	C2C-C3C	3.63	1.48	1.37
29	G5	203	PEB	C1A-NA	-3.63	1.32	1.37
29	TJ	202	PEB	C1A-NA	-3.63	1.32	1.37
29	TL	202	PEB	C1A-NA	-3.63	1.32	1.37
29	B5	201	PEB	C1A-NA	-3.63	1.32	1.37
29	MR	202	PEB	C2C-C3C	3.63	1.48	1.37
29	OB	201	PEB	C1A-NA	-3.63	1.32	1.37
29	OM	201	PEB	C1A-NA	-3.63	1.32	1.37
29	Y7	203	PEB	CHA-C1B	3.63	1.48	1.40
29	Y9	203	PEB	CHA-C1B	3.63	1.48	1.40
31	CF	1001	CYC	C2C-C1C	-3.63	1.48	1.52
31	CI	1001	CYC	C2C-C1C	-3.63	1.48	1.52
29	g7	203	PEB	CHA-C1B	3.63	1.48	1.40
29	g9	203	PEB	CHA-C1B	3.63	1.48	1.40
29	JA	203	PEB	CHA-C1B	3.63	1.48	1.40
29	JN	203	PEB	CHA-C1B	3.63	1.48	1.40
29	mF	203	PEB	C1A-NA	-3.63	1.32	1.37
29	mI	203	PEB	C1A-NA	-3.63	1.32	1.37
29	JG	201	PEB	C2C-C3C	3.63	1.48	1.37
29	JQ	201	PEB	C2C-C3C	3.63	1.48	1.37
29	R7	203	PEB	CHA-C1B	3.63	1.48	1.40
29	R9	203	PEB	CHA-C1B	3.63	1.48	1.40
29	BC	201	PEB	CHA-C1B	3.63	1.48	1.40
29	BE	201	PEB	CHA-C1B	3.63	1.48	1.40
29	pJ	201	PEB	CHA-C1B	3.63	1.48	1.40
29	pL	201	PEB	CHA-C1B	3.63	1.48	1.40
29	ZJ	202	PEB	C1A-NA	-3.63	1.32	1.37
29	ZL	202	PEB	C1A-NA	-3.63	1.32	1.37
29	JG	201	PEB	C1A-NA	-3.63	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	dJ	202	PEB	C1A-NA	-3.63	1.32	1.37
29	dL	202	PEB	C1A-NA	-3.63	1.32	1.37
29	JQ	201	PEB	C1A-NA	-3.63	1.32	1.37
29	B3	201	PEB	CHA-C1B	3.63	1.48	1.40
29	BO	201	PEB	CHA-C1B	3.63	1.48	1.40
29	rJ	202	PEB	C1A-NA	-3.63	1.32	1.37
29	rL	202	PEB	C1A-NA	-3.63	1.32	1.37
29	J1	1002	PEB	C2C-C3C	3.63	1.48	1.37
29	JK	1002	PEB	C2C-C3C	3.63	1.48	1.37
29	I3	201	PEB	C2A-C1A	-3.63	1.48	1.52
29	IO	201	PEB	C2A-C1A	-3.63	1.48	1.52
29	DJ	201	PEB	CHA-C1B	3.63	1.48	1.40
29	zJ	501	PEB	CHA-C1B	3.63	1.48	1.40
29	DL	201	PEB	CHA-C1B	3.63	1.48	1.40
29	Z1	203	PEB	C1A-NA	-3.63	1.32	1.37
29	K5	203	PEB	C1A-NA	-3.63	1.32	1.37
29	K8	203	PEB	C1A-NA	-3.63	1.32	1.37
29	VF	203	PEB	C1A-NA	-3.63	1.32	1.37
29	VI	203	PEB	C1A-NA	-3.63	1.32	1.37
29	ZK	203	PEB	C1A-NA	-3.63	1.32	1.37
29	D1	1002	PEB	C2C-C3C	3.63	1.48	1.37
30	A1	304	PUB	C3B-C2B	3.63	1.48	1.37
30	AK	304	PUB	C3B-C2B	3.63	1.48	1.37
29	M4	203	PEB	CHA-C1B	3.63	1.48	1.40
29	BA	203	PEB	CHA-C1B	3.63	1.48	1.40
29	BN	203	PEB	CHA-C1B	3.63	1.48	1.40
29	F3	201	PEB	CHA-C1B	3.62	1.48	1.40
29	XJ	201	PEB	CHA-C1B	3.62	1.48	1.40
29	XL	201	PEB	CHA-C1B	3.62	1.48	1.40
29	FO	201	PEB	CHA-C1B	3.62	1.48	1.40
29	BG	201	PEB	C2C-C3C	3.62	1.48	1.37
29	BQ	201	PEB	C2C-C3C	3.62	1.48	1.37
29	V1	203	PEB	C1A-NA	-3.62	1.32	1.37
29	B8	203	PEB	C1A-NA	-3.62	1.32	1.37
29	C8	203	PEB	C1A-NA	-3.62	1.32	1.37
29	VK	203	PEB	C1A-NA	-3.62	1.32	1.37
29	bJ	202	PEB	C1A-NA	-3.62	1.32	1.37
29	bL	202	PEB	C1A-NA	-3.62	1.32	1.37
29	FJ	201	PEB	CHA-C1B	3.62	1.48	1.40
29	IJ	201	PEB	CHA-C1B	3.62	1.48	1.40
29	FL	201	PEB	CHA-C1B	3.62	1.48	1.40
29	IL	201	PEB	CHA-C1B	3.62	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	rJ	201	PEB	CHA-C1B	3.62	1.48	1.40
29	rL	201	PEB	CHA-C1B	3.62	1.48	1.40
29	S1	202	PEB	C1A-NA	-3.62	1.32	1.37
29	BG	201	PEB	C1A-NA	-3.62	1.32	1.37
29	SK	202	PEB	C1A-NA	-3.62	1.32	1.37
29	BQ	201	PEB	C1A-NA	-3.62	1.32	1.37
29	PR	202	PEB	C1A-NA	-3.62	1.32	1.37
29	DG	201	PEB	C2C-C3C	3.62	1.48	1.37
29	DQ	201	PEB	C2C-C3C	3.62	1.48	1.37
29	H3	201	PEB	CHA-C1B	3.62	1.48	1.40
29	zL	501	PEB	CHA-C1B	3.62	1.48	1.40
29	HO	201	PEB	CHA-C1B	3.62	1.48	1.40
29	S2	201	PEB	CHA-C1B	3.62	1.48	1.40
29	P7	203	PEB	CHA-C1B	3.62	1.48	1.40
29	P9	203	PEB	CHA-C1B	3.62	1.48	1.40
29	FA	203	PEB	CHA-C1B	3.62	1.48	1.40
29	FN	203	PEB	CHA-C1B	3.62	1.48	1.40
29	iB	202	PEB	C1A-NA	-3.62	1.32	1.37
29	iM	202	PEB	C1A-NA	-3.62	1.32	1.37
29	aF	203	PEB	C1A-NA	-3.62	1.32	1.37
29	kF	203	PEB	C1A-NA	-3.62	1.32	1.37
29	aI	203	PEB	C1A-NA	-3.62	1.32	1.37
29	kI	203	PEB	C1A-NA	-3.62	1.32	1.37
29	nJ	202	PEB	C1A-NA	-3.62	1.32	1.37
29	pJ	202	PEB	C1A-NA	-3.62	1.32	1.37
29	nL	202	PEB	C1A-NA	-3.62	1.32	1.37
29	pL	202	PEB	C1A-NA	-3.62	1.32	1.37
29	N1	1002	PEB	C2C-C3C	3.62	1.48	1.37
29	TF	201	PEB	CHA-C1B	3.62	1.48	1.40
29	fF	201	PEB	C2A-C1A	-3.62	1.48	1.52
29	fI	201	PEB	C2A-C1A	-3.62	1.48	1.52
29	NK	1002	PEB	C2C-C3C	3.62	1.48	1.37
29	HB	202	PEB	C1A-NA	-3.62	1.32	1.37
29	HM	202	PEB	C1A-NA	-3.62	1.32	1.37
29	HK	1002	PEB	C2C-C3C	3.62	1.48	1.37
29	fJ	201	PEB	CHA-C1B	3.62	1.48	1.40
29	fL	201	PEB	CHA-C1B	3.62	1.48	1.40
29	H1	1002	PEB	C2C-C3C	3.62	1.48	1.37
29	K8	201	PEB	CHA-C1B	3.62	1.48	1.40
29	b1	201	PEB	C2A-C1A	-3.62	1.48	1.52
29	ZF	201	PEB	C2A-C1A	-3.62	1.48	1.52
29	ZI	201	PEB	C2A-C1A	-3.62	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	bK	201	PEB	C2A-C1A	-3.62	1.48	1.52
29	mB	202	PEB	C1A-NA	-3.61	1.32	1.37
29	mM	202	PEB	C1A-NA	-3.61	1.32	1.37
29	V7	203	PEB	CHA-C1B	3.61	1.48	1.40
29	V9	203	PEB	CHA-C1B	3.61	1.48	1.40
29	Z1	202	PEB	C2A-C1A	-3.61	1.48	1.52
29	j1	201	PEB	C2A-C1A	-3.61	1.48	1.52
29	ZK	202	PEB	C2A-C1A	-3.61	1.48	1.52
29	jK	201	PEB	C2A-C1A	-3.61	1.48	1.52
29	JB	202	PEB	C1A-NA	-3.61	1.32	1.37
29	JM	202	PEB	C1A-NA	-3.61	1.32	1.37
29	k7	203	PEB	CHA-C1B	3.61	1.48	1.40
29	k9	203	PEB	CHA-C1B	3.61	1.48	1.40
29	TJ	201	PEB	CHA-C1B	3.61	1.48	1.40
29	TL	201	PEB	CHA-C1B	3.61	1.48	1.40
29	ZJ	201	PEB	CHA-C1B	3.61	1.48	1.40
29	ZL	201	PEB	CHA-C1B	3.61	1.48	1.40
29	jF	201	PEB	C2A-C1A	-3.61	1.48	1.52
29	jI	201	PEB	C2A-C1A	-3.61	1.48	1.52
29	YB	201	PEB	C1A-NA	-3.61	1.32	1.37
29	LG	201	PEB	C1A-NA	-3.61	1.32	1.37
29	YM	201	PEB	C1A-NA	-3.61	1.32	1.37
29	MQ	402	PEB	C1A-NA	-3.61	1.32	1.37
29	JJ	202	PEB	C1A-NA	-3.61	1.32	1.37
29	JL	202	PEB	C1A-NA	-3.61	1.32	1.37
29	tJ	201	PEB	CHA-C1B	3.61	1.48	1.40
29	tL	201	PEB	CHA-C1B	3.61	1.48	1.40
29	JC	201	PEB	C2C-C3C	3.61	1.48	1.37
29	JE	201	PEB	C2C-C3C	3.61	1.48	1.37
29	N1	1002	PEB	C4D-ND	3.61	1.40	1.35
29	j1	203	PEB	C1A-NA	-3.61	1.32	1.37
29	KG	201	PEB	C1A-NA	-3.61	1.32	1.37
29	WJ	201	PEB	C1A-NA	-3.61	1.32	1.37
29	jK	203	PEB	C1A-NA	-3.61	1.32	1.37
29	WL	201	PEB	C1A-NA	-3.61	1.32	1.37
29	KQ	201	PEB	C1A-NA	-3.61	1.32	1.37
30	yL	303	PUB	C3B-C2B	3.61	1.48	1.37
29	C4	203	PEB	C1A-NA	-3.61	1.32	1.37
29	K8	201	PEB	C1A-NA	-3.61	1.32	1.37
29	d1	202	PEB	C1A-NA	-3.61	1.32	1.37
29	dK	202	PEB	C1A-NA	-3.61	1.32	1.37
29	HA	203	PEB	CHA-C1B	3.61	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HN	203	PEB	CHA-C1B	3.61	1.48	1.40
29	DC	201	PEB	C2C-C3C	3.61	1.48	1.37
29	DE	201	PEB	C2C-C3C	3.61	1.48	1.37
29	m1	202	PEB	C1A-NA	-3.61	1.32	1.37
29	mK	202	PEB	C1A-NA	-3.61	1.32	1.37
29	A1	303	PEB	CHA-C1B	3.60	1.48	1.40
29	L3	201	PEB	CHA-C1B	3.60	1.48	1.40
29	AK	303	PEB	CHA-C1B	3.60	1.48	1.40
29	LO	201	PEB	CHA-C1B	3.60	1.48	1.40
29	BJ	201	PEB	CHA-C1B	3.60	1.48	1.40
29	BL	201	PEB	CHA-C1B	3.60	1.48	1.40
29	LC	201	PEB	C2C-C3C	3.60	1.48	1.37
29	LE	201	PEB	C2C-C3C	3.60	1.48	1.37
29	FG	201	PEB	C1A-NA	-3.60	1.32	1.37
29	FQ	201	PEB	C1A-NA	-3.60	1.32	1.37
29	CD	203	PEB	C1A-NA	-3.60	1.32	1.37
29	SR	201	PEB	C2C-C3C	3.60	1.48	1.37
29	O1	202	PEB	C1A-NA	-3.60	1.32	1.37
29	W1	202	PEB	C1A-NA	-3.60	1.32	1.37
29	CG	201	PEB	C1A-NA	-3.60	1.32	1.37
29	OK	202	PEB	C1A-NA	-3.60	1.32	1.37
29	WK	202	PEB	C1A-NA	-3.60	1.32	1.37
29	CQ	201	PEB	C1A-NA	-3.60	1.32	1.37
29	K5	201	PEB	CHA-C1B	3.60	1.48	1.40
29	C5	201	PEB	C1A-NA	-3.60	1.32	1.37
29	nJ	201	PEB	CHA-C1B	3.60	1.48	1.40
29	nL	201	PEB	CHA-C1B	3.60	1.48	1.40
31	EK	1001	CYC	C1C-NC	-3.60	1.32	1.37
29	JJ	201	PEB	CHA-C1B	3.60	1.48	1.40
29	JL	201	PEB	CHA-C1B	3.60	1.48	1.40
29	A7	305	PEB	C1A-NA	-3.60	1.32	1.37
29	A9	305	PEB	C1A-NA	-3.60	1.32	1.37
31	I1	1001	CYC	C1C-NC	-3.60	1.32	1.37
29	HC	201	PEB	C2C-C3C	3.60	1.48	1.37
29	HE	201	PEB	C2C-C3C	3.60	1.48	1.37
29	NK	1002	PEB	C4D-ND	3.60	1.40	1.35
31	GK	1001	CYC	C1C-NC	-3.60	1.32	1.37
29	RJ	201	PEB	CHA-C1B	3.60	1.48	1.40
29	RL	201	PEB	CHA-C1B	3.60	1.48	1.40
31	vP	1001	CYC	C2C-C1C	-3.60	1.48	1.52
29	AF	304	PEB	C1A-NA	-3.60	1.32	1.37
29	AI	304	PEB	C1A-NA	-3.60	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KC	203	PEB	C2C-C3C	3.60	1.48	1.37
29	KE	203	PEB	C2C-C3C	3.60	1.48	1.37
29	AF	304	PEB	CHA-C1B	3.60	1.48	1.40
29	AI	304	PEB	CHA-C1B	3.60	1.48	1.40
29	hF	201	PEB	C2A-C1A	-3.60	1.48	1.52
29	hI	201	PEB	C2A-C1A	-3.60	1.48	1.52
29	vJ	201	PEB	C2A-C1A	-3.60	1.48	1.52
29	vL	201	PEB	C2A-C1A	-3.60	1.48	1.52
31	gP	1001	CYC	C2C-C1C	-3.60	1.48	1.52
29	FC	201	PEB	C2C-C3C	3.59	1.48	1.37
29	FE	201	PEB	C2C-C3C	3.59	1.48	1.37
29	H5	203	PEB	C1A-NA	-3.59	1.32	1.37
29	DK	1002	PEB	C1A-NA	-3.59	1.32	1.37
29	BC	201	PEB	C2C-C3C	3.59	1.48	1.37
29	BE	201	PEB	C2C-C3C	3.59	1.48	1.37
29	D3	201	PEB	CHA-C1B	3.59	1.48	1.40
29	M3	202	PEB	CHA-C1B	3.59	1.48	1.40
29	DO	201	PEB	CHA-C1B	3.59	1.48	1.40
29	MO	202	PEB	CHA-C1B	3.59	1.48	1.40
29	IC	202	PEB	C2C-C3C	3.59	1.48	1.37
29	IE	202	PEB	C2C-C3C	3.59	1.48	1.37
29	e1	202	PEB	C1A-NA	-3.59	1.33	1.37
29	eK	202	PEB	C1A-NA	-3.59	1.33	1.37
29	C5	201	PEB	CHA-C1B	3.59	1.48	1.40
29	C8	201	PEB	CHA-C1B	3.59	1.48	1.40
29	gB	201	PEB	C1A-NA	-3.59	1.33	1.37
29	gM	201	PEB	C1A-NA	-3.59	1.33	1.37
29	KC	203	PEB	CHA-C1B	3.59	1.48	1.40
29	KE	203	PEB	CHA-C1B	3.59	1.48	1.40
29	dF	202	PEB	C2A-C1A	-3.59	1.48	1.52
29	dI	202	PEB	C2A-C1A	-3.59	1.48	1.52
29	A1	303	PEB	C1A-NA	-3.59	1.33	1.37
29	C8	201	PEB	C1A-NA	-3.59	1.33	1.37
29	AK	303	PEB	C1A-NA	-3.59	1.33	1.37
29	f1	201	PEB	C2A-C1A	-3.59	1.48	1.52
29	fK	201	PEB	C2A-C1A	-3.59	1.48	1.52
29	D1	1002	PEB	C4D-ND	3.59	1.40	1.35
29	B5	203	PEB	C1A-NA	-3.59	1.33	1.37
29	gF	203	PEB	C1A-NA	-3.59	1.33	1.37
29	gI	203	PEB	C1A-NA	-3.59	1.33	1.37
29	IC	202	PEB	CHA-C1B	3.59	1.48	1.40
29	IE	202	PEB	CHA-C1B	3.59	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	tP	1001	CYC	C2C-C1C	-3.58	1.48	1.52
29	g1	202	PEB	C1A-NA	-3.58	1.33	1.37
29	gK	202	PEB	C1A-NA	-3.58	1.33	1.37
29	L5	201	PEB	CHA-C1B	3.58	1.48	1.40
29	Q1	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	bF	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	bI	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	QK	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	CC	202	PEB	C2C-C3C	3.58	1.48	1.37
29	CE	202	PEB	C2C-C3C	3.58	1.48	1.37
29	J3	201	PEB	CHA-C1B	3.58	1.48	1.40
29	JO	201	PEB	CHA-C1B	3.58	1.48	1.40
29	AC	202	PEB	C2C-C3C	3.58	1.48	1.37
29	AE	202	PEB	C2C-C3C	3.58	1.48	1.37
29	Q7	202	PEB	C1A-NA	-3.58	1.33	1.37
29	Q9	202	PEB	C1A-NA	-3.58	1.33	1.37
29	HK	1002	PEB	C4D-ND	3.58	1.39	1.35
29	EC	202	PEB	C2C-C3C	3.58	1.48	1.37
29	EE	202	PEB	C2C-C3C	3.58	1.48	1.37
29	EG	201	PEB	C1A-NA	-3.58	1.33	1.37
29	EQ	201	PEB	C1A-NA	-3.58	1.33	1.37
29	g7	201	PEB	CHA-C1B	3.58	1.48	1.40
29	g9	201	PEB	CHA-C1B	3.58	1.48	1.40
29	G3	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	GO	201	PEB	C2A-C1A	-3.58	1.48	1.52
29	DK	1002	PEB	C4D-ND	3.58	1.39	1.35
30	MQ	405	PUB	C3B-C2B	3.58	1.48	1.37
29	V1	202	PEB	C1A-NA	-3.58	1.33	1.37
29	G4	203	PEB	C1A-NA	-3.58	1.33	1.37
29	G8	203	PEB	C1A-NA	-3.58	1.33	1.37
29	VK	202	PEB	C1A-NA	-3.58	1.33	1.37
29	O7	202	PEB	C1A-NA	-3.58	1.33	1.37
29	O9	202	PEB	C1A-NA	-3.58	1.33	1.37
29	IJ	203	PEB	C1A-NA	-3.58	1.33	1.37
29	IL	203	PEB	C1A-NA	-3.58	1.33	1.37
29	GC	202	PEB	C2C-C3C	3.57	1.48	1.37
29	GE	202	PEB	C2C-C3C	3.57	1.48	1.37
31	E1	1001	CYC	C1C-NC	-3.57	1.33	1.37
29	fJ	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	fL	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	I4	203	PEB	C2C-C3C	3.57	1.48	1.37
29	TF	201	PEB	C2C-C3C	3.57	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GJ	202	PEB	C1A-NA	-3.57	1.33	1.37
29	GL	202	PEB	C1A-NA	-3.57	1.33	1.37
31	CK	1001	CYC	C1C-NC	-3.57	1.33	1.37
29	F5	201	PEB	CHA-C1B	3.57	1.48	1.40
29	L8	201	PEB	CHA-C1B	3.57	1.48	1.40
30	MG	403	PUB	C3B-C2B	3.57	1.48	1.37
29	d7	202	PEB	C1A-NA	-3.57	1.33	1.37
29	d9	202	PEB	C1A-NA	-3.57	1.33	1.37
29	AB	301	PEB	C1A-NA	-3.57	1.33	1.37
29	FJ	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	FL	201	PEB	C2A-C1A	-3.57	1.48	1.52
31	NP	1001	CYC	C2C-C1C	-3.57	1.48	1.52
31	HF	1001	CYC	CHB-C4A	3.57	1.48	1.40
31	HI	1001	CYC	CHB-C4A	3.57	1.48	1.40
29	cB	201	PEB	C1A-NA	-3.57	1.33	1.37
29	cM	201	PEB	C1A-NA	-3.57	1.33	1.37
29	J1	1002	PEB	C4D-ND	3.57	1.39	1.35
29	JK	1002	PEB	C4D-ND	3.57	1.39	1.35
29	EC	202	PEB	CHA-C1B	3.57	1.48	1.40
29	EE	202	PEB	CHA-C1B	3.57	1.48	1.40
29	U1	202	PEB	C2A-C1A	-3.57	1.48	1.52
29	UK	202	PEB	C2A-C1A	-3.57	1.48	1.52
31	RP	1001	CYC	C2C-C1C	-3.57	1.48	1.52
31	pP	1001	CYC	C2C-C1C	-3.57	1.48	1.52
29	a7	201	PEB	CHA-C1B	3.57	1.48	1.40
29	a9	201	PEB	CHA-C1B	3.57	1.48	1.40
29	eB	201	PEB	C1A-NA	-3.57	1.33	1.37
29	eM	201	PEB	C1A-NA	-3.57	1.33	1.37
29	S1	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	K3	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	SK	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	KO	201	PEB	C2A-C1A	-3.57	1.48	1.52
29	QJ	202	PEB	C1A-NA	-3.57	1.33	1.37
29	QL	202	PEB	C1A-NA	-3.57	1.33	1.37
29	F8	201	PEB	CHA-C1B	3.57	1.48	1.40
29	EC	201	PEB	CHA-C1B	3.57	1.48	1.40
29	EE	201	PEB	CHA-C1B	3.57	1.48	1.40
29	I5	201	PEB	CHA-C1B	3.57	1.48	1.40
29	I8	201	PEB	CHA-C1B	3.57	1.48	1.40
29	AC	202	PEB	CHA-C1B	3.57	1.48	1.40
29	AE	202	PEB	CHA-C1B	3.57	1.48	1.40
29	GC	202	PEB	CHA-C1B	3.56	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GE	202	PEB	CHA-C1B	3.56	1.48	1.40
31	yP	1001	CYC	C2C-C1C	-3.56	1.48	1.52
29	L8	203	PEB	C1A-NA	-3.56	1.33	1.37
29	pJ	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	pL	201	PEB	C2A-C1A	-3.56	1.48	1.52
31	JF	1001	CYC	CHB-C4A	3.56	1.48	1.40
31	NF	1001	CYC	CHB-C4A	3.56	1.48	1.40
31	JI	1001	CYC	CHB-C4A	3.56	1.48	1.40
31	NI	1001	CYC	CHB-C4A	3.56	1.48	1.40
29	M4	203	PEB	C2C-C3C	3.56	1.48	1.37
29	c7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	c9	201	PEB	CHA-C1B	3.56	1.48	1.40
29	A5	201	PEB	CHA-C1B	3.56	1.48	1.40
29	A8	201	PEB	CHA-C1B	3.56	1.48	1.40
29	I4	203	PEB	CHA-C1B	3.56	1.48	1.40
29	AM	301	PEB	C1A-NA	-3.56	1.33	1.37
29	XJ	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	bJ	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	jJ	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	XL	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	bL	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	jL	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	R7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	R9	201	PEB	CHA-C1B	3.56	1.48	1.40
31	DF	1001	CYC	CHB-C4A	3.56	1.48	1.40
31	DI	1001	CYC	CHB-C4A	3.56	1.48	1.40
29	IG	201	PEB	C1A-NA	-3.56	1.33	1.37
29	IQ	201	PEB	C1A-NA	-3.56	1.33	1.37
31	mP	1001	CYC	C2C-C1C	-3.56	1.48	1.52
29	S2	201	PEB	C2C-C3C	3.56	1.48	1.37
29	H1	1002	PEB	C4D-ND	3.56	1.39	1.35
31	xP	1001	CYC	C4D-CHA	3.56	1.54	1.41
29	PJ	201	PEB	C2A-C1A	-3.56	1.48	1.52
29	PL	201	PEB	C2A-C1A	-3.56	1.48	1.52
31	WP	1001	CYC	C2C-C1C	-3.56	1.48	1.52
29	H5	201	PEB	CHA-C1B	3.56	1.48	1.40
29	k7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	m7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	k9	201	PEB	CHA-C1B	3.56	1.48	1.40
29	m9	201	PEB	CHA-C1B	3.56	1.48	1.40
29	e7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	e9	201	PEB	CHA-C1B	3.56	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	VP	1001	CYC	C4D-CHA	3.56	1.54	1.41
29	f7	202	PEB	C1A-NA	-3.56	1.33	1.37
29	l7	202	PEB	C1A-NA	-3.56	1.33	1.37
29	f9	202	PEB	C1A-NA	-3.56	1.33	1.37
29	l9	202	PEB	C1A-NA	-3.56	1.33	1.37
29	GD	203	PEB	C1A-NA	-3.56	1.33	1.37
29	T7	201	PEB	CHA-C1B	3.56	1.48	1.40
29	T9	201	PEB	CHA-C1B	3.56	1.48	1.40
29	c1	202	PEB	C1A-NA	-3.56	1.33	1.37
29	i1	202	PEB	C1A-NA	-3.56	1.33	1.37
29	cK	202	PEB	C1A-NA	-3.56	1.33	1.37
29	iK	202	PEB	C1A-NA	-3.56	1.33	1.37
29	F5	203	PEB	C1A-NA	-3.55	1.33	1.37
29	F8	203	PEB	C1A-NA	-3.55	1.33	1.37
29	L8	202	PEB	C1A-NA	-3.55	1.33	1.37
29	uJ	203	PEB	C1A-NA	-3.55	1.33	1.37
29	uL	203	PEB	C1A-NA	-3.55	1.33	1.37
29	D3	202	PEB	C1A-NA	-3.55	1.33	1.37
29	F3	203	PEB	C1A-NA	-3.55	1.33	1.37
29	FO	203	PEB	C1A-NA	-3.55	1.33	1.37
29	GC	201	PEB	CHA-C1B	3.55	1.48	1.40
29	GE	201	PEB	CHA-C1B	3.55	1.48	1.40
31	IK	1001	CYC	C1C-NC	-3.55	1.33	1.37
29	Y7	201	PEB	CHA-C1B	3.55	1.48	1.40
29	Y9	201	PEB	CHA-C1B	3.55	1.48	1.40
29	JJ	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	JL	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	P2	202	PEB	C1A-NA	-3.55	1.33	1.37
29	gJ	202	PEB	C1A-NA	-3.55	1.33	1.37
29	zJ	501	PEB	C1A-NA	-3.55	1.33	1.37
29	gL	202	PEB	C1A-NA	-3.55	1.33	1.37
29	i7	201	PEB	CHA-C1B	3.55	1.48	1.40
29	i9	201	PEB	CHA-C1B	3.55	1.48	1.40
29	OR	202	PEB	C2C-C3C	3.55	1.48	1.37
29	P7	201	PEB	CHA-C1B	3.55	1.48	1.40
29	P9	201	PEB	CHA-C1B	3.55	1.48	1.40
29	F1	1002	PEB	C1A-NA	-3.55	1.33	1.37
29	FK	1002	PEB	C1A-NA	-3.55	1.33	1.37
29	CC	202	PEB	CHA-C1B	3.55	1.48	1.40
29	CE	202	PEB	CHA-C1B	3.55	1.48	1.40
29	V7	201	PEB	CHA-C1B	3.55	1.48	1.40
29	V9	201	PEB	CHA-C1B	3.55	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	D1	1003	CYC	C1C-NC	-3.55	1.33	1.37
29	BJ	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	DJ	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	BL	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	DL	201	PEB	C2A-C1A	-3.55	1.48	1.52
31	KP	1001	CYC	C2C-C1C	-3.55	1.48	1.52
29	SR	201	PEB	CHA-C1B	3.55	1.48	1.40
29	N3	202	PEB	CHA-C1B	3.55	1.48	1.40
29	tJ	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	tL	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	A1	302	PEB	C2C-C3C	3.55	1.48	1.37
29	AK	302	PEB	C2C-C3C	3.55	1.48	1.37
29	T2	203	PEB	C1A-NA	-3.55	1.33	1.37
29	IJ	201	PEB	C2A-C1A	-3.55	1.48	1.52
29	IL	201	PEB	C2A-C1A	-3.55	1.48	1.52
31	VP	1001	CYC	C3D-C2D	3.55	1.48	1.37
29	RJ	201	PEB	C2A-C1A	-3.54	1.48	1.52
29	RL	201	PEB	C2A-C1A	-3.54	1.48	1.52
31	xP	1001	CYC	C3D-C2D	3.54	1.48	1.37
29	G5	202	PEB	CHA-C1B	3.54	1.48	1.40
29	G5	202	PEB	C1A-NA	-3.54	1.33	1.37
29	a1	202	PEB	C1A-NA	-3.54	1.33	1.37
29	aK	202	PEB	C1A-NA	-3.54	1.33	1.37
29	HB	201	PEB	C1A-NA	-3.54	1.33	1.37
29	HM	201	PEB	C1A-NA	-3.54	1.33	1.37
29	NO	202	PEB	CHA-C1B	3.54	1.48	1.40
29	NR	203	PEB	C1A-NA	-3.54	1.33	1.37
29	D3	202	PEB	C2C-C3C	3.54	1.48	1.37
29	VR	203	PEB	C1A-NA	-3.54	1.33	1.37
29	zJ	501	PEB	C2C-C3C	3.54	1.48	1.37
29	H8	201	PEB	CHA-C1B	3.54	1.48	1.40
29	TJ	201	PEB	C2A-C1A	-3.54	1.48	1.52
29	TL	201	PEB	C2A-C1A	-3.54	1.48	1.52
29	Z1	201	PEB	C1A-NA	-3.54	1.33	1.37
29	U7	202	PEB	C1A-NA	-3.54	1.33	1.37
29	U9	202	PEB	C1A-NA	-3.54	1.33	1.37
29	ZK	201	PEB	C1A-NA	-3.54	1.33	1.37
29	HF	1002	PEB	CHA-C1B	3.54	1.48	1.40
29	HI	1002	PEB	CHA-C1B	3.54	1.48	1.40
31	cP	1001	CYC	C2C-C1C	-3.54	1.48	1.52
29	k1	202	PEB	C1A-NA	-3.54	1.33	1.37
29	kK	202	PEB	C1A-NA	-3.54	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AM	303	PEB	C2C-C3C	3.54	1.48	1.37
29	DG	201	PEB	C1A-NA	-3.54	1.33	1.37
29	DQ	201	PEB	C1A-NA	-3.54	1.33	1.37
31	FF	1001	CYC	CHB-C4A	3.54	1.48	1.40
31	FI	1001	CYC	CHB-C4A	3.54	1.48	1.40
29	D1	1002	PEB	C1A-NA	-3.54	1.33	1.37
29	AJ	202	PEB	C1A-NA	-3.54	1.33	1.37
29	AL	202	PEB	C1A-NA	-3.54	1.33	1.37
29	DO	202	PEB	C2C-C3C	3.54	1.48	1.37
29	R1	202	PEB	C1A-NA	-3.54	1.33	1.37
29	RK	202	PEB	C1A-NA	-3.54	1.33	1.37
29	C5	202	PEB	C1A-NA	-3.54	1.33	1.37
29	C8	202	PEB	C1A-NA	-3.54	1.33	1.37
29	AG	201	PEB	C1A-NA	-3.54	1.33	1.37
29	AQ	201	PEB	C1A-NA	-3.54	1.33	1.37
31	K1	1001	CYC	C1C-NC	-3.54	1.33	1.37
31	KK	1001	CYC	C1C-NC	-3.54	1.33	1.37
31	rP	1001	CYC	C2C-C1C	-3.54	1.48	1.52
29	L5	203	PEB	C1A-NA	-3.54	1.33	1.37
29	b7	202	PEB	C1A-NA	-3.54	1.33	1.37
29	b9	202	PEB	C1A-NA	-3.54	1.33	1.37
29	TB	201	PEB	C1A-NA	-3.53	1.33	1.37
29	TM	201	PEB	C1A-NA	-3.53	1.33	1.37
29	B8	201	PEB	CHA-C1B	3.53	1.48	1.40
31	MF	1001	CYC	C2C-C1C	-3.53	1.48	1.52
31	MI	1001	CYC	C2C-C1C	-3.53	1.48	1.52
29	TR	203	PEB	C1A-NA	-3.53	1.33	1.37
29	B5	201	PEB	CHA-C1B	3.53	1.48	1.40
29	G5	201	PEB	CHA-C1B	3.53	1.48	1.40
29	L5	202	PEB	CHA-C1B	3.53	1.48	1.40
29	L8	202	PEB	CHA-C1B	3.53	1.48	1.40
29	A3	201	PEB	CHA-C1B	3.53	1.48	1.40
29	AO	201	PEB	CHA-C1B	3.53	1.48	1.40
29	MA	404	PEB	C2C-C3C	3.53	1.48	1.37
29	MN	404	PEB	C2C-C3C	3.53	1.48	1.37
29	LJ	201	PEB	C2A-C1A	-3.53	1.48	1.52
29	LL	201	PEB	C2A-C1A	-3.53	1.48	1.52
29	H3	203	PEB	C1A-NA	-3.53	1.33	1.37
29	HO	203	PEB	C1A-NA	-3.53	1.33	1.37
29	XB	201	PEB	C1A-NA	-3.53	1.33	1.37
29	XM	201	PEB	C1A-NA	-3.53	1.33	1.37
29	AB	303	PEB	C2C-C3C	3.53	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	PP	1001	CYC	C2C-C1C	-3.53	1.48	1.52
29	F8	202	PEB	C1A-NA	-3.53	1.33	1.37
29	LB	201	PEB	C1A-NA	-3.53	1.33	1.37
29	LM	201	PEB	C1A-NA	-3.53	1.33	1.37
29	MG	401	PEB	C2C-C3C	3.53	1.48	1.37
29	L3	202	PEB	C1A-NA	-3.52	1.33	1.37
29	DO	202	PEB	C1A-NA	-3.52	1.33	1.37
29	LO	202	PEB	C1A-NA	-3.52	1.33	1.37
29	G8	201	PEB	CHA-C1B	3.52	1.48	1.40
29	G8	202	PEB	CHA-C1B	3.52	1.48	1.40
29	I3	203	PEB	CHA-C1B	3.52	1.48	1.40
29	IO	203	PEB	CHA-C1B	3.52	1.48	1.40
31	TP	1001	CYC	C2C-C1C	-3.52	1.48	1.52
29	D3	203	PEB	C1A-NA	-3.52	1.33	1.37
29	DO	203	PEB	C1A-NA	-3.52	1.33	1.37
29	OJ	202	PEB	C1A-NA	-3.52	1.33	1.37
29	OL	202	PEB	C1A-NA	-3.52	1.33	1.37
29	rJ	201	PEB	C2A-C1A	-3.52	1.48	1.52
29	rL	201	PEB	C2A-C1A	-3.52	1.48	1.52
29	wJ	303	PEB	C2C-C3C	3.52	1.48	1.37
29	S7	202	PEB	C1A-NA	-3.52	1.33	1.37
29	S9	202	PEB	C1A-NA	-3.52	1.33	1.37
29	MJ	202	PEB	C1A-NA	-3.52	1.33	1.37
29	iJ	202	PEB	C1A-NA	-3.52	1.33	1.37
29	ML	202	PEB	C1A-NA	-3.52	1.33	1.37
29	iL	202	PEB	C1A-NA	-3.52	1.33	1.37
32	k6	302	PMS	O1S-S	3.52	1.55	1.45
32	kH	302	PMS	O1S-S	3.52	1.55	1.45
29	aJ	202	PEB	C1A-NA	-3.52	1.33	1.37
29	aL	202	PEB	C1A-NA	-3.52	1.33	1.37
29	IC	201	PEB	CHA-C1B	3.52	1.48	1.40
29	KC	202	PEB	CHA-C1B	3.52	1.48	1.40
29	IE	201	PEB	CHA-C1B	3.52	1.48	1.40
29	KE	202	PEB	CHA-C1B	3.52	1.48	1.40
29	LF	1002	PEB	CHA-C1B	3.52	1.48	1.40
29	LI	1002	PEB	CHA-C1B	3.52	1.48	1.40
29	CC	201	PEB	CHA-C1B	3.52	1.48	1.40
29	CE	201	PEB	CHA-C1B	3.52	1.48	1.40
29	H1	1002	PEB	C1A-NA	-3.52	1.33	1.37
29	JB	201	PEB	C1A-NA	-3.52	1.33	1.37
29	JM	201	PEB	C1A-NA	-3.52	1.33	1.37
29	A1	301	PEB	CHA-C1B	3.52	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	NF	1002	PEB	CHA-C1B	3.52	1.48	1.40
29	NI	1002	PEB	CHA-C1B	3.52	1.48	1.40
29	AK	301	PEB	CHA-C1B	3.52	1.48	1.40
31	CP	1001	CYC	C2C-C1C	-3.52	1.49	1.52
29	RB	201	PEB	C1A-NA	-3.52	1.33	1.37
29	YB	203	PEB	C1A-NA	-3.52	1.33	1.37
29	RM	201	PEB	C1A-NA	-3.52	1.33	1.37
29	YM	203	PEB	C1A-NA	-3.52	1.33	1.37
29	AC	201	PEB	CHA-C1B	3.52	1.48	1.40
29	AE	201	PEB	CHA-C1B	3.52	1.48	1.40
29	F5	202	PEB	C1A-NA	-3.52	1.33	1.37
31	LF	1001	CYC	CHB-C4A	3.52	1.48	1.40
31	LI	1001	CYC	CHB-C4A	3.52	1.48	1.40
29	I3	201	PEB	CHA-C1B	3.52	1.48	1.40
29	IO	201	PEB	CHA-C1B	3.52	1.48	1.40
29	EJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	EL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	CA	202	PEB	C1A-NA	-3.51	1.33	1.37
29	DB	201	PEB	C1A-NA	-3.51	1.33	1.37
29	DM	201	PEB	C1A-NA	-3.51	1.33	1.37
29	CN	202	PEB	C1A-NA	-3.51	1.33	1.37
29	ZJ	201	PEB	C2A-C1A	-3.51	1.49	1.52
29	ZL	201	PEB	C2A-C1A	-3.51	1.49	1.52
29	h7	202	PEB	C1A-NA	-3.51	1.33	1.37
29	h9	202	PEB	C1A-NA	-3.51	1.33	1.37
31	EF	1001	CYC	C2C-C1C	-3.51	1.49	1.52
31	EI	1001	CYC	C2C-C1C	-3.51	1.49	1.52
31	GP	1001	CYC	C2C-C1C	-3.51	1.49	1.52
29	B3	202	PEB	CHA-C1B	3.51	1.48	1.40
29	BO	202	PEB	CHA-C1B	3.51	1.48	1.40
29	SJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	oJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	qJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	SL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	oL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	qL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	YJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	kJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	YL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	kL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	A9	304	PEB	C2C-C3C	3.51	1.48	1.37
31	KF	1001	CYC	C2C-C1C	-3.51	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L1	1002	PEB	C1A-NA	-3.51	1.33	1.37
29	CJ	202	PEB	C1A-NA	-3.51	1.33	1.37
29	LK	1002	PEB	C1A-NA	-3.51	1.33	1.37
29	CL	202	PEB	C1A-NA	-3.51	1.33	1.37
29	zL	501	PEB	C2C-C3C	3.51	1.48	1.37
31	IF	1001	CYC	C2C-C1C	-3.51	1.49	1.52
31	II	1001	CYC	C2C-C1C	-3.51	1.49	1.52
29	F5	202	PEB	CHA-C1B	3.51	1.48	1.40
29	F8	202	PEB	CHA-C1B	3.51	1.48	1.40
29	dJ	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	dL	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	L5	202	PEB	C1A-NA	-3.50	1.33	1.37
29	NK	1002	PEB	C1A-NA	-3.50	1.33	1.37
29	JF	1002	PEB	CHA-C1B	3.50	1.48	1.40
29	JI	1002	PEB	CHA-C1B	3.50	1.48	1.40
29	H5	202	PEB	C1A-NA	-3.50	1.33	1.37
29	MQ	403	PEB	C2C-C3C	3.50	1.48	1.37
29	B8	202	PEB	CHA-C1B	3.50	1.48	1.40
29	H8	202	PEB	C1A-NA	-3.50	1.33	1.37
29	UB	202	PEB	C1A-NA	-3.50	1.33	1.37
29	sJ	202	PEB	C1A-NA	-3.50	1.33	1.37
29	sL	202	PEB	C1A-NA	-3.50	1.33	1.37
29	MQ	401	PEB	C1A-NA	-3.50	1.33	1.37
29	J3	202	PEB	CHA-C1B	3.50	1.48	1.40
29	JO	202	PEB	CHA-C1B	3.50	1.48	1.40
29	B3	203	PEB	C1A-NA	-3.50	1.33	1.37
29	mB	201	PEB	C1A-NA	-3.50	1.33	1.37
29	mM	201	PEB	C1A-NA	-3.50	1.33	1.37
29	BO	203	PEB	C1A-NA	-3.50	1.33	1.37
29	NR	201	PEB	C1A-NA	-3.50	1.33	1.37
29	nJ	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	nL	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	J1	1002	PEB	C1A-NA	-3.50	1.33	1.37
29	JK	1002	PEB	C1A-NA	-3.50	1.33	1.37
29	A7	304	PEB	C2C-C3C	3.50	1.48	1.37
29	GB	201	PEB	CHA-C1B	3.50	1.48	1.40
29	FF	1002	PEB	CHA-C1B	3.50	1.48	1.40
29	FI	1002	PEB	CHA-C1B	3.50	1.48	1.40
29	GM	201	PEB	CHA-C1B	3.50	1.48	1.40
29	QB	203	PEB	CHA-C1B	3.50	1.48	1.40
29	DF	1002	PEB	CHA-C1B	3.50	1.48	1.40
29	DI	1002	PEB	CHA-C1B	3.50	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	QM	203	PEB	CHA-C1B	3.50	1.48	1.40
29	VB	201	PEB	C1A-NA	-3.50	1.33	1.37
29	KJ	202	PEB	C1A-NA	-3.50	1.33	1.37
29	KL	202	PEB	C1A-NA	-3.50	1.33	1.37
29	VM	201	PEB	C1A-NA	-3.50	1.33	1.37
29	MA	404	PEB	CHA-C1B	3.50	1.48	1.40
29	GC	201	PEB	C1A-NA	-3.50	1.33	1.37
29	GE	201	PEB	C1A-NA	-3.50	1.33	1.37
29	eJ	202	PEB	C1A-NA	-3.50	1.33	1.37
29	eL	202	PEB	C1A-NA	-3.50	1.33	1.37
29	MB	202	PEB	C1A-NA	-3.50	1.33	1.37
29	MM	202	PEB	C1A-NA	-3.50	1.33	1.37
31	EP	1001	CYC	C2C-C1C	-3.50	1.49	1.52
29	j7	202	PEB	C1A-NA	-3.50	1.33	1.37
29	j9	202	PEB	C1A-NA	-3.50	1.33	1.37
29	VJ	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	VL	201	PEB	C2A-C1A	-3.50	1.49	1.52
29	U1	201	PEB	C1A-NA	-3.49	1.33	1.37
29	lB	202	PEB	C1A-NA	-3.49	1.33	1.37
29	UK	201	PEB	C1A-NA	-3.49	1.33	1.37
29	lM	202	PEB	C1A-NA	-3.49	1.33	1.37
29	TR	201	PEB	C1A-NA	-3.49	1.33	1.37
29	NR	201	PEB	CHA-C1B	3.49	1.48	1.40
29	dB	202	PEB	C1A-NA	-3.49	1.33	1.37
29	dM	202	PEB	C1A-NA	-3.49	1.33	1.37
29	OB	201	PEB	CHA-C1B	3.49	1.48	1.40
29	OM	201	PEB	CHA-C1B	3.49	1.48	1.40
29	dJ	203	PEB	C2C-C3C	3.49	1.48	1.37
29	dL	203	PEB	C2C-C3C	3.49	1.48	1.37
29	DB	203	PEB	C2C-C3C	3.49	1.48	1.37
29	DM	203	PEB	C2C-C3C	3.49	1.48	1.37
29	aB	201	PEB	CHA-C1B	3.49	1.48	1.40
29	aM	201	PEB	CHA-C1B	3.49	1.48	1.40
29	G3	202	PEB	C1A-NA	-3.49	1.33	1.37
29	GO	202	PEB	C1A-NA	-3.49	1.33	1.37
29	E3	201	PEB	CHA-C1B	3.49	1.48	1.40
29	EO	201	PEB	CHA-C1B	3.49	1.48	1.40
29	W7	202	PEB	C1A-NA	-3.49	1.33	1.37
29	W9	202	PEB	C1A-NA	-3.49	1.33	1.37
29	CB	202	PEB	C1A-NA	-3.49	1.33	1.37
29	CM	202	PEB	C1A-NA	-3.49	1.33	1.37
29	M3	201	PEB	C2A-C1A	-3.49	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MO	201	PEB	C2A-C1A	-3.49	1.49	1.52
29	F7	1002	PEB	C1A-NA	-3.49	1.33	1.37
29	DG	202	PEB	CHA-C1B	3.49	1.48	1.40
29	DQ	202	PEB	CHA-C1B	3.49	1.48	1.40
29	Z7	202	PEB	C1A-NA	-3.49	1.33	1.37
29	Z9	202	PEB	C1A-NA	-3.49	1.33	1.37
29	PB	201	PEB	C1A-NA	-3.49	1.33	1.37
29	PM	201	PEB	C1A-NA	-3.49	1.33	1.37
31	cP	1001	CYC	C3D-C2D	3.49	1.48	1.37
29	H8	202	PEB	CHA-C1B	3.49	1.48	1.40
29	hB	201	PEB	CHA-C1B	3.49	1.48	1.40
29	hM	201	PEB	CHA-C1B	3.49	1.48	1.40
29	MN	401	PEB	CHA-C1B	3.49	1.48	1.40
29	E3	201	PEB	C2A-C1A	-3.49	1.49	1.52
29	EO	201	PEB	C2A-C1A	-3.49	1.49	1.52
29	P1	202	PEB	C1A-NA	-3.49	1.33	1.37
29	PK	202	PEB	C1A-NA	-3.49	1.33	1.37
29	I5	202	PEB	C1A-NA	-3.49	1.33	1.37
29	G8	202	PEB	C1A-NA	-3.49	1.33	1.37
29	I8	202	PEB	C1A-NA	-3.49	1.33	1.37
29	F9	1002	PEB	C1A-NA	-3.49	1.33	1.37
29	WB	202	PEB	C1A-NA	-3.49	1.33	1.37
29	WM	202	PEB	C1A-NA	-3.49	1.33	1.37
29	T2	201	PEB	CHA-C1B	3.49	1.48	1.40
29	TR	201	PEB	CHA-C1B	3.49	1.48	1.40
29	UJ	202	PEB	C1A-NA	-3.49	1.33	1.37
29	UL	202	PEB	C1A-NA	-3.49	1.33	1.37
29	UB	201	PEB	CHA-C1B	3.49	1.48	1.40
29	UM	201	PEB	CHA-C1B	3.49	1.48	1.40
29	JG	202	PEB	CHA-C1B	3.49	1.48	1.40
29	JQ	202	PEB	CHA-C1B	3.49	1.48	1.40
29	R7	202	PEB	CHA-C1B	3.49	1.48	1.40
29	R9	202	PEB	CHA-C1B	3.49	1.48	1.40
29	KB	201	PEB	CHA-C1B	3.49	1.48	1.40
29	FG	202	PEB	CHA-C1B	3.49	1.48	1.40
29	KM	201	PEB	CHA-C1B	3.49	1.48	1.40
29	FQ	202	PEB	CHA-C1B	3.49	1.48	1.40
29	RR	201	PEB	CHA-C1B	3.49	1.48	1.40
31	C7	1001	CYC	CHB-C4A	3.48	1.48	1.40
31	C9	1001	CYC	CHB-C4A	3.48	1.48	1.40
29	eB	202	PEB	C2C-C3C	3.48	1.48	1.37
29	wL	303	PEB	C2C-C3C	3.48	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	eM	202	PEB	C2C-C3C	3.48	1.48	1.37
31	tP	1001	CYC	C3D-C2D	3.48	1.48	1.37
31	KI	1001	CYC	C2C-C1C	-3.48	1.49	1.52
29	HB	203	PEB	C2C-C3C	3.48	1.48	1.37
29	HM	203	PEB	C2C-C3C	3.48	1.48	1.37
29	dB	201	PEB	CHA-C1B	3.48	1.48	1.40
29	dM	201	PEB	CHA-C1B	3.48	1.48	1.40
29	A5	202	PEB	C1A-NA	-3.48	1.33	1.37
29	J9	1002	PEB	C1A-NA	-3.48	1.33	1.37
29	OB	202	PEB	C1A-NA	-3.48	1.33	1.37
29	OM	202	PEB	C1A-NA	-3.48	1.33	1.37
29	V2	201	PEB	CHA-C1B	3.48	1.48	1.40
29	VR	201	PEB	CHA-C1B	3.48	1.48	1.40
31	vP	1001	CYC	C3D-C2D	3.48	1.48	1.37
29	KG	202	PEB	CHA-C1B	3.48	1.48	1.40
29	KQ	202	PEB	CHA-C1B	3.48	1.48	1.40
31	pP	1001	CYC	C3D-C2D	3.48	1.48	1.37
29	hJ	201	PEB	C2A-C1A	-3.48	1.49	1.52
29	hL	201	PEB	C2A-C1A	-3.48	1.49	1.52
29	A8	202	PEB	C1A-NA	-3.48	1.33	1.37
29	fB	201	PEB	CHA-C1B	3.48	1.48	1.40
29	fM	201	PEB	CHA-C1B	3.48	1.48	1.40
29	AC	201	PEB	C1A-NA	-3.48	1.33	1.37
29	AE	201	PEB	C1A-NA	-3.48	1.33	1.37
29	NJ	201	PEB	C2A-C1A	-3.48	1.49	1.52
29	NL	201	PEB	C2A-C1A	-3.48	1.49	1.52
29	J3	203	PEB	C1A-NA	-3.48	1.33	1.37
29	SB	202	PEB	C1A-NA	-3.48	1.33	1.37
29	SM	202	PEB	C1A-NA	-3.48	1.33	1.37
29	JO	203	PEB	C1A-NA	-3.48	1.33	1.37
29	K3	201	PEB	CHA-C1B	3.48	1.48	1.40
29	KO	201	PEB	CHA-C1B	3.48	1.48	1.40
29	H3	202	PEB	CHA-C1B	3.48	1.48	1.40
29	HO	202	PEB	CHA-C1B	3.48	1.48	1.40
29	V1	201	PEB	CHA-C1B	3.47	1.48	1.40
29	VK	201	PEB	CHA-C1B	3.47	1.48	1.40
29	T2	201	PEB	C1A-NA	-3.47	1.33	1.37
29	JB	203	PEB	C2C-C3C	3.47	1.48	1.37
29	ZB	203	PEB	C2C-C3C	3.47	1.48	1.37
29	JM	203	PEB	C2C-C3C	3.47	1.48	1.37
29	ZM	203	PEB	C2C-C3C	3.47	1.48	1.37
31	lP	1001	CYC	C2C-C1C	-3.47	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	J7	1002	PEB	C1A-NA	-3.47	1.33	1.37
29	QB	204	PEB	C1A-NA	-3.47	1.33	1.37
29	QM	204	PEB	C1A-NA	-3.47	1.33	1.37
29	A7	305	PEB	C2C-C3C	3.47	1.48	1.37
29	A9	305	PEB	C2C-C3C	3.47	1.48	1.37
29	PB	202	PEB	C2C-C3C	3.47	1.48	1.37
29	rJ	203	PEB	C2C-C3C	3.47	1.48	1.37
29	rL	203	PEB	C2C-C3C	3.47	1.48	1.37
29	PM	202	PEB	C2C-C3C	3.47	1.48	1.37
31	eP	1001	CYC	C2C-C1C	-3.47	1.49	1.52
29	R2	203	PEB	C1A-NA	-3.47	1.33	1.37
29	RR	203	PEB	C1A-NA	-3.47	1.33	1.37
29	tJ	202	PEB	C2C-C3C	3.47	1.48	1.37
29	tL	202	PEB	C2C-C3C	3.47	1.48	1.37
29	F3	202	PEB	CHA-C1B	3.47	1.48	1.40
29	FO	202	PEB	CHA-C1B	3.47	1.48	1.40
31	RP	1001	CYC	C3D-C2D	3.47	1.48	1.37
29	IB	201	PEB	CHA-C1B	3.47	1.48	1.40
29	IM	201	PEB	CHA-C1B	3.47	1.48	1.40
31	GF	1001	CYC	C2C-C1C	-3.47	1.49	1.52
31	GI	1001	CYC	C2C-C1C	-3.47	1.49	1.52
29	D3	202	PEB	CHA-C1B	3.47	1.48	1.40
29	kB	203	PEB	C2C-C3C	3.47	1.48	1.37
29	kM	203	PEB	C2C-C3C	3.47	1.48	1.37
29	MB	201	PEB	CHA-C1B	3.47	1.48	1.40
29	MM	201	PEB	CHA-C1B	3.47	1.48	1.40
29	VB	203	PEB	C2C-C3C	3.47	1.48	1.37
29	ZJ	203	PEB	C2C-C3C	3.47	1.48	1.37
29	ZL	203	PEB	C2C-C3C	3.47	1.48	1.37
29	VM	203	PEB	C2C-C3C	3.47	1.48	1.37
29	iB	201	PEB	C1A-NA	-3.47	1.33	1.37
29	WJ	203	PEB	C1A-NA	-3.47	1.33	1.37
29	WL	203	PEB	C1A-NA	-3.47	1.33	1.37
29	iM	201	PEB	C1A-NA	-3.47	1.33	1.37
29	MQ	407	PEB	C1A-NA	-3.47	1.33	1.37
29	k7	202	PEB	CHA-C1B	3.47	1.48	1.40
29	k9	202	PEB	CHA-C1B	3.47	1.48	1.40
29	m1	201	PEB	CHA-C1B	3.47	1.48	1.40
29	AG	202	PEB	CHA-C1B	3.47	1.48	1.40
29	mK	201	PEB	CHA-C1B	3.47	1.48	1.40
29	AQ	202	PEB	CHA-C1B	3.47	1.48	1.40
29	F3	202	PEB	C1A-NA	-3.47	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FO	202	PEB	C1A-NA	-3.47	1.33	1.37
29	G3	201	PEB	CHA-C1B	3.47	1.48	1.40
29	GO	201	PEB	CHA-C1B	3.47	1.48	1.40
29	FJ	203	PEB	C2C-C3C	3.47	1.47	1.37
29	FL	203	PEB	C2C-C3C	3.47	1.47	1.37
29	R2	201	PEB	CHA-C1B	3.47	1.48	1.40
29	MN	404	PEB	CHA-C1B	3.47	1.48	1.40
29	cB	203	PEB	C2C-C3C	3.47	1.47	1.37
29	cM	203	PEB	C2C-C3C	3.47	1.47	1.37
29	V2	201	PEB	C1A-NA	-3.47	1.33	1.37
29	XR	201	PEB	C1A-NA	-3.47	1.33	1.37
29	N2	201	PEB	CHA-C1B	3.47	1.48	1.40
31	JP	1001	CYC	C2C-C1C	-3.47	1.49	1.52
29	R2	201	PEB	C1A-NA	-3.47	1.33	1.37
29	NB	201	PEB	C1A-NA	-3.47	1.33	1.37
29	NM	201	PEB	C1A-NA	-3.47	1.33	1.37
29	RR	201	PEB	C1A-NA	-3.47	1.33	1.37
29	V2	203	PEB	C1A-NA	-3.47	1.33	1.37
29	kB	201	PEB	C1A-NA	-3.47	1.33	1.37
29	kM	201	PEB	C1A-NA	-3.47	1.33	1.37
31	mP	1001	CYC	C3D-C2D	3.47	1.47	1.37
29	a1	201	PEB	CHA-C1B	3.47	1.48	1.40
29	k1	201	PEB	CHA-C1B	3.47	1.48	1.40
29	aK	201	PEB	CHA-C1B	3.47	1.48	1.40
29	kK	201	PEB	CHA-C1B	3.47	1.48	1.40
29	MR	202	PEB	CHA-C1B	3.47	1.48	1.40
29	Y1	201	PEB	CHA-C1B	3.46	1.48	1.40
29	aF	201	PEB	CHA-C1B	3.46	1.48	1.40
29	aI	201	PEB	CHA-C1B	3.46	1.48	1.40
29	YK	201	PEB	CHA-C1B	3.46	1.48	1.40
29	IJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	IL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	hJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	hL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	CB	201	PEB	CHA-C1B	3.46	1.48	1.40
29	CM	201	PEB	CHA-C1B	3.46	1.48	1.40
31	EP	1001	CYC	C3D-C2D	3.46	1.47	1.37
29	A3	202	PEB	C1A-NA	-3.46	1.33	1.37
29	AO	202	PEB	C1A-NA	-3.46	1.33	1.37
29	SB	201	PEB	CHA-C1B	3.46	1.48	1.40
29	SM	201	PEB	CHA-C1B	3.46	1.48	1.40
31	PP	1001	CYC	C3D-C2D	3.46	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	nL	203	PEB	C2C-C3C	3.46	1.47	1.37
31	D7	1001	CYC	C2C-C1C	-3.46	1.49	1.52
31	D9	1001	CYC	C2C-C1C	-3.46	1.49	1.52
29	KB	202	PEB	C1A-NA	-3.46	1.33	1.37
29	KM	202	PEB	C1A-NA	-3.46	1.33	1.37
29	mB	203	PEB	C2C-C3C	3.46	1.47	1.37
29	mM	203	PEB	C2C-C3C	3.46	1.47	1.37
29	LG	202	PEB	CHA-C1B	3.46	1.48	1.40
29	LQ	201	PEB	CHA-C1B	3.46	1.48	1.40
29	TB	203	PEB	C2C-C3C	3.46	1.47	1.37
29	TM	203	PEB	C2C-C3C	3.46	1.47	1.37
29	K5	202	PEB	C1A-NA	-3.46	1.33	1.37
29	K8	202	PEB	C1A-NA	-3.46	1.33	1.37
29	fB	202	PEB	C1A-NA	-3.46	1.33	1.37
29	mJ	202	PEB	C1A-NA	-3.46	1.33	1.37
29	mL	202	PEB	C1A-NA	-3.46	1.33	1.37
29	fM	202	PEB	C1A-NA	-3.46	1.33	1.37
29	RJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	RL	203	PEB	C2C-C3C	3.46	1.47	1.37
31	NP	1001	CYC	C3D-C2D	3.46	1.47	1.37
29	jB	201	PEB	C2C-C3C	3.46	1.47	1.37
29	fJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	jJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	fL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	jL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	jM	201	PEB	C2C-C3C	3.46	1.47	1.37
31	gP	1001	CYC	C3D-C2D	3.46	1.47	1.37
29	H5	202	PEB	CHA-C1B	3.46	1.48	1.40
29	m7	202	PEB	CHA-C1B	3.46	1.48	1.40
29	m9	202	PEB	CHA-C1B	3.46	1.48	1.40
29	TJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	TL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	e2	402	PEB	CHA-C1B	3.46	1.48	1.40
29	P7	202	PEB	CHA-C1B	3.46	1.48	1.40
29	P9	202	PEB	CHA-C1B	3.46	1.48	1.40
29	VJ	202	PEB	C2C-C3C	3.46	1.47	1.37
29	VL	202	PEB	C2C-C3C	3.46	1.47	1.37
29	GB	202	PEB	C1A-NA	-3.46	1.33	1.37
29	GM	202	PEB	C1A-NA	-3.46	1.33	1.37
29	XJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	XL	203	PEB	C2C-C3C	3.46	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	xL	303	PEB	C2C-C3C	3.46	1.47	1.37
29	IJ	202	PEB	C1A-NA	-3.46	1.33	1.37
29	IL	202	PEB	C1A-NA	-3.46	1.33	1.37
29	vJ	202	PEB	C2C-C3C	3.46	1.47	1.37
29	vL	202	PEB	C2C-C3C	3.46	1.47	1.37
29	N3	201	PEB	C2A-C1A	-3.46	1.49	1.52
29	JJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	pJ	203	PEB	C2C-C3C	3.46	1.47	1.37
29	JL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	pL	203	PEB	C2C-C3C	3.46	1.47	1.37
29	NB	202	PEB	C2C-C3C	3.46	1.47	1.37
29	NM	202	PEB	C2C-C3C	3.46	1.47	1.37
31	M7	1001	CYC	CHB-C4A	3.46	1.48	1.40
29	DJ	202	PEB	C2C-C3C	3.46	1.47	1.37
29	DL	202	PEB	C2C-C3C	3.46	1.47	1.37
29	B5	202	PEB	C1A-NA	-3.46	1.33	1.37
29	ZB	201	PEB	C1A-NA	-3.46	1.33	1.37
29	ZM	201	PEB	C1A-NA	-3.46	1.33	1.37
31	iP	1001	CYC	C2C-C1C	-3.46	1.49	1.52
29	gB	203	PEB	C2C-C3C	3.46	1.47	1.37
29	gM	203	PEB	C2C-C3C	3.46	1.47	1.37
29	xJ	303	PEB	C2C-C3C	3.46	1.47	1.37
29	xL	302	PEB	C2C-C3C	3.46	1.47	1.37
29	XR	201	PEB	CHA-C1B	3.46	1.48	1.40
29	N1	1002	PEB	C1A-NA	-3.46	1.33	1.37
29	CG	202	PEB	CHA-C1B	3.46	1.48	1.40
29	CQ	202	PEB	CHA-C1B	3.46	1.48	1.40
31	JP	1001	CYC	C3D-C2D	3.46	1.47	1.37
29	WB	201	PEB	CHA-C1B	3.46	1.48	1.40
29	WM	201	PEB	CHA-C1B	3.46	1.48	1.40
29	e1	201	PEB	CHA-C1B	3.45	1.48	1.40
29	RF	201	PEB	CHA-C1B	3.45	1.48	1.40
29	RI	201	PEB	CHA-C1B	3.45	1.48	1.40
29	eK	201	PEB	CHA-C1B	3.45	1.48	1.40
29	B3	202	PEB	C1A-NA	-3.45	1.33	1.37
29	K3	202	PEB	C1A-NA	-3.45	1.33	1.37
29	FB	201	PEB	C1A-NA	-3.45	1.33	1.37
29	cJ	202	PEB	C1A-NA	-3.45	1.33	1.37
29	cL	202	PEB	C1A-NA	-3.45	1.33	1.37
29	FM	201	PEB	C1A-NA	-3.45	1.33	1.37
29	BO	202	PEB	C1A-NA	-3.45	1.33	1.37
29	KO	202	PEB	C1A-NA	-3.45	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	PJ	203	PEB	C2C-C3C	3.45	1.47	1.37
29	PL	203	PEB	C2C-C3C	3.45	1.47	1.37
29	lB	201	PEB	CHA-C1B	3.45	1.48	1.40
29	lM	201	PEB	CHA-C1B	3.45	1.48	1.40
29	iB	203	PEB	C2C-C3C	3.45	1.47	1.37
29	iM	203	PEB	C2C-C3C	3.45	1.47	1.37
29	N2	201	PEB	C1A-NA	-3.45	1.33	1.37
29	MG	405	PEB	C1A-NA	-3.45	1.33	1.37
29	LB	203	PEB	C2C-C3C	3.45	1.47	1.37
29	LM	203	PEB	C2C-C3C	3.45	1.47	1.37
29	X2	202	PEB	C1A-NA	-3.45	1.33	1.37
29	XR	203	PEB	C1A-NA	-3.45	1.33	1.37
29	c1	201	PEB	CHA-C1B	3.45	1.48	1.40
29	cK	201	PEB	CHA-C1B	3.45	1.48	1.40
29	XB	202	PEB	C2C-C3C	3.45	1.47	1.37
29	XM	202	PEB	C2C-C3C	3.45	1.47	1.37
31	iP	1001	CYC	C3D-C2D	3.45	1.47	1.37
29	P1	201	PEB	CHA-C1B	3.45	1.48	1.40
29	PK	201	PEB	CHA-C1B	3.45	1.48	1.40
29	EC	201	PEB	C1A-NA	-3.45	1.33	1.37
29	EE	201	PEB	C1A-NA	-3.45	1.33	1.37
31	AP	1001	CYC	C3D-C2D	3.45	1.47	1.37
31	rP	1001	CYC	C3D-C2D	3.45	1.47	1.37
29	VF	201	PEB	CHA-C1B	3.45	1.48	1.40
29	VI	201	PEB	CHA-C1B	3.45	1.48	1.40
29	A1	302	PEB	C1A-NA	-3.45	1.33	1.37
29	AK	302	PEB	C1A-NA	-3.45	1.33	1.37
29	NO	202	PEB	C2C-C3C	3.45	1.47	1.37
29	T7	202	PEB	CHA-C1B	3.45	1.48	1.40
29	a7	202	PEB	CHA-C1B	3.45	1.48	1.40
29	T9	202	PEB	CHA-C1B	3.45	1.48	1.40
29	a9	202	PEB	CHA-C1B	3.45	1.48	1.40
29	LJ	202	PEB	C2C-C3C	3.45	1.47	1.37
29	LL	202	PEB	C2C-C3C	3.45	1.47	1.37
29	Y7	202	PEB	CHA-C1B	3.45	1.48	1.40
29	Y9	202	PEB	CHA-C1B	3.45	1.48	1.40
29	GG	202	PEB	CHA-C1B	3.45	1.48	1.40
29	GQ	202	PEB	CHA-C1B	3.45	1.48	1.40
29	hB	202	PEB	C1A-NA	-3.45	1.33	1.37
29	hM	202	PEB	C1A-NA	-3.45	1.33	1.37
29	BG	202	PEB	CHA-C1B	3.45	1.48	1.40
29	BQ	202	PEB	CHA-C1B	3.45	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D7	1002	PEB	C1A-NA	-3.45	1.33	1.37
29	D9	1002	PEB	C1A-NA	-3.45	1.33	1.37
29	WR	201	PEB	C2A-C1A	-3.45	1.49	1.52
29	RB	203	PEB	C2C-C3C	3.45	1.47	1.37
29	NJ	203	PEB	C2C-C3C	3.45	1.47	1.37
29	NL	203	PEB	C2C-C3C	3.45	1.47	1.37
29	RM	203	PEB	C2C-C3C	3.45	1.47	1.37
29	mF	201	PEB	CHA-C1B	3.45	1.48	1.40
29	mI	201	PEB	CHA-C1B	3.45	1.48	1.40
29	J3	202	PEB	C1A-NA	-3.45	1.33	1.37
29	IB	202	PEB	C1A-NA	-3.45	1.33	1.37
29	zL	501	PEB	C1A-NA	-3.45	1.33	1.37
29	IM	202	PEB	C1A-NA	-3.45	1.33	1.37
29	JO	202	PEB	C1A-NA	-3.45	1.33	1.37
29	W1	202	PEB	C2C-C3C	3.45	1.47	1.37
29	NB	201	PEB	C2C-C3C	3.45	1.47	1.37
29	WK	202	PEB	C2C-C3C	3.45	1.47	1.37
29	NM	201	PEB	C2C-C3C	3.45	1.47	1.37
29	QR	201	PEB	C2A-C1A	-3.45	1.49	1.52
29	HJ	202	PEB	C2C-C3C	3.45	1.47	1.37
29	HL	202	PEB	C2C-C3C	3.45	1.47	1.37
31	KP	1001	CYC	C3D-C2D	3.45	1.47	1.37
29	HG	202	PEB	CHA-C1B	3.45	1.48	1.40
29	HQ	202	PEB	CHA-C1B	3.45	1.48	1.40
29	C3	201	PEB	CHA-C1B	3.45	1.48	1.40
29	CO	201	PEB	CHA-C1B	3.45	1.48	1.40
31	K7	1001	CYC	CHB-C4A	3.45	1.48	1.40
31	L9	1001	CYC	CHB-C4A	3.45	1.48	1.40
31	M9	1001	CYC	CHB-C4A	3.45	1.48	1.40
31	IP	1001	CYC	C3D-C2D	3.45	1.47	1.37
31	E7	1001	CYC	CHB-C4A	3.45	1.48	1.40
31	E9	1001	CYC	CHB-C4A	3.45	1.48	1.40
29	MA	401	PEB	CHA-C1B	3.45	1.48	1.40
29	VB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	WB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	VM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	WM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	B5	202	PEB	CHA-C1B	3.44	1.48	1.40
29	OR	202	PEB	CHA-C1B	3.44	1.48	1.40
29	MQ	407	PEB	C2C-C3C	3.44	1.47	1.37
29	g1	201	PEB	CHA-C1B	3.44	1.48	1.40
29	gK	201	PEB	CHA-C1B	3.44	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	bJ	203	PEB	C2C-C3C	3.44	1.47	1.37
29	bL	203	PEB	C2C-C3C	3.44	1.47	1.37
29	I5	202	PEB	CHA-C1B	3.44	1.48	1.40
29	e7	202	PEB	CHA-C1B	3.44	1.48	1.40
29	I8	202	PEB	CHA-C1B	3.44	1.48	1.40
29	e9	202	PEB	CHA-C1B	3.44	1.48	1.40
29	WR	202	PEB	C2C-C3C	3.44	1.47	1.37
29	i7	202	PEB	CHA-C1B	3.44	1.48	1.40
29	i9	202	PEB	CHA-C1B	3.44	1.48	1.40
29	IG	202	PEB	CHA-C1B	3.44	1.48	1.40
29	IQ	202	PEB	CHA-C1B	3.44	1.48	1.40
29	Q2	201	PEB	C2A-C1A	-3.44	1.49	1.52
29	dB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	BJ	203	PEB	C2C-C3C	3.44	1.47	1.37
29	BL	203	PEB	C2C-C3C	3.44	1.47	1.37
29	dM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	DO	202	PEB	CHA-C1B	3.44	1.48	1.40
29	IC	201	PEB	C1A-NA	-3.44	1.33	1.37
29	IE	201	PEB	C1A-NA	-3.44	1.33	1.37
29	FB	203	PEB	C2C-C3C	3.44	1.47	1.37
29	FM	203	PEB	C2C-C3C	3.44	1.47	1.37
31	TP	1001	CYC	C3D-C2D	3.44	1.47	1.37
29	C5	202	PEB	CHA-C1B	3.44	1.48	1.40
29	g7	202	PEB	CHA-C1B	3.44	1.48	1.40
29	C8	202	PEB	CHA-C1B	3.44	1.48	1.40
29	g9	202	PEB	CHA-C1B	3.44	1.48	1.40
29	B8	202	PEB	C1A-NA	-3.44	1.33	1.37
29	IA	202	PEB	C1A-NA	-3.44	1.33	1.37
29	IN	202	PEB	C1A-NA	-3.44	1.33	1.37
29	l1	202	PEB	C2C-C3C	3.44	1.47	1.37
29	N3	202	PEB	C2C-C3C	3.44	1.47	1.37
29	lK	202	PEB	C2C-C3C	3.44	1.47	1.37
29	HK	1002	PEB	C1A-NA	-3.44	1.33	1.37
29	gF	201	PEB	CHA-C1B	3.44	1.48	1.40
29	gI	201	PEB	CHA-C1B	3.44	1.48	1.40
31	CP	1001	CYC	C3D-C2D	3.44	1.47	1.37
29	VR	201	PEB	C1A-NA	-3.44	1.33	1.37
29	xJ	302	PEB	C2C-C3C	3.44	1.47	1.37
29	jB	201	PEB	CHA-C1B	3.44	1.48	1.40
29	jM	201	PEB	CHA-C1B	3.44	1.48	1.40
29	GA	202	PEB	C1A-NA	-3.44	1.33	1.37
29	AF	301	PEB	C1A-NA	-3.44	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AI	301	PEB	C1A-NA	-3.44	1.33	1.37
29	GN	202	PEB	C1A-NA	-3.44	1.33	1.37
29	mB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	IG	201	PEB	C2C-C3C	3.44	1.47	1.37
29	mM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	IQ	201	PEB	C2C-C3C	3.44	1.47	1.37
29	EG	201	PEB	C2C-C3C	3.44	1.47	1.37
29	EQ	201	PEB	C2C-C3C	3.44	1.47	1.37
29	c7	202	PEB	CHA-C1B	3.44	1.48	1.40
29	c9	202	PEB	CHA-C1B	3.44	1.48	1.40
29	M2	202	PEB	C2C-C3C	3.44	1.47	1.37
29	E3	202	PEB	C1A-NA	-3.44	1.33	1.37
29	EO	202	PEB	C1A-NA	-3.44	1.33	1.37
29	YB	202	PEB	CHA-C1B	3.44	1.48	1.40
29	YM	202	PEB	CHA-C1B	3.44	1.48	1.40
29	KA	202	PEB	C1A-NA	-3.44	1.33	1.37
29	EB	202	PEB	C1A-NA	-3.44	1.33	1.37
29	EM	202	PEB	C1A-NA	-3.44	1.33	1.37
29	KN	202	PEB	C1A-NA	-3.44	1.33	1.37
29	IB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	CG	201	PEB	C2C-C3C	3.44	1.47	1.37
29	IM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	CQ	201	PEB	C2C-C3C	3.44	1.47	1.37
31	eP	1001	CYC	C3D-C2D	3.44	1.47	1.37
29	eB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	eM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	kF	201	PEB	CHA-C1B	3.44	1.48	1.40
29	kI	201	PEB	CHA-C1B	3.44	1.48	1.40
29	KB	201	PEB	C2C-C3C	3.44	1.47	1.37
29	KM	201	PEB	C2C-C3C	3.44	1.47	1.37
29	eJ	201	PEB	CHA-C1B	3.43	1.48	1.40
29	eL	201	PEB	CHA-C1B	3.43	1.48	1.40
29	GB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	GM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	jB	202	PEB	C1A-NA	-3.43	1.33	1.37
29	jM	202	PEB	C1A-NA	-3.43	1.33	1.37
29	N3	203	PEB	C2A-C1A	-3.43	1.49	1.52
29	EG	202	PEB	CHA-C1B	3.43	1.48	1.40
29	EQ	202	PEB	CHA-C1B	3.43	1.48	1.40
29	MG	405	PEB	C2C-C3C	3.43	1.47	1.37
29	OB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	OM	201	PEB	C2C-C3C	3.43	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	GP	1001	CYC	C3D-C2D	3.43	1.47	1.37
29	UB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	UM	201	PEB	C2C-C3C	3.43	1.47	1.37
31	I1	1001	CYC	CHB-C4A	3.43	1.48	1.40
29	F7	1002	PEB	CHA-C1B	3.43	1.48	1.40
29	EB	201	PEB	CHA-C1B	3.43	1.48	1.40
29	EM	201	PEB	CHA-C1B	3.43	1.48	1.40
31	MF	1001	CYC	C3D-C2D	3.43	1.47	1.37
31	MI	1001	CYC	C3D-C2D	3.43	1.47	1.37
29	M3	201	PEB	C2C-C3C	3.43	1.47	1.37
29	MO	201	PEB	C2C-C3C	3.43	1.47	1.37
29	hB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	hM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	W2	202	PEB	C2C-C3C	3.43	1.47	1.37
31	G9	1001	CYC	CHB-C4A	3.43	1.48	1.40
29	DB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	DM	201	PEB	C2C-C3C	3.43	1.47	1.37
31	D1	1003	CYC	CHB-C4A	3.43	1.48	1.40
31	I7	1001	CYC	CHB-C4A	3.43	1.48	1.40
31	I9	1001	CYC	CHB-C4A	3.43	1.48	1.40
29	FB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	HC	203	PEB	C2C-C3C	3.43	1.47	1.37
29	HE	203	PEB	C2C-C3C	3.43	1.47	1.37
29	FM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	BA	201	PEB	C2C-C3C	3.43	1.47	1.37
29	BN	201	PEB	C2C-C3C	3.43	1.47	1.37
29	M3	202	PEB	C2C-C3C	3.43	1.47	1.37
29	KG	201	PEB	C2C-C3C	3.43	1.47	1.37
29	MO	202	PEB	C2C-C3C	3.43	1.47	1.37
29	KQ	201	PEB	C2C-C3C	3.43	1.47	1.37
29	EA	202	PEB	C1A-NA	-3.43	1.33	1.37
29	EN	202	PEB	C1A-NA	-3.43	1.33	1.37
29	V7	202	PEB	CHA-C1B	3.43	1.48	1.40
29	V9	202	PEB	CHA-C1B	3.43	1.48	1.40
29	aB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	aM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	LA	203	PEB	C1A-NA	-3.43	1.33	1.37
29	LN	203	PEB	C1A-NA	-3.43	1.33	1.37
29	YB	202	PEB	C2C-C3C	3.43	1.47	1.37
29	YM	202	PEB	C2C-C3C	3.43	1.47	1.37
29	JB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	LB	201	PEB	C2C-C3C	3.43	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	LM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	U1	203	PEB	C2C-C3C	3.43	1.47	1.37
29	MB	201	PEB	C2C-C3C	3.43	1.47	1.37
29	AG	201	PEB	C2C-C3C	3.43	1.47	1.37
29	UK	203	PEB	C2C-C3C	3.43	1.47	1.37
29	MM	201	PEB	C2C-C3C	3.43	1.47	1.37
29	AQ	201	PEB	C2C-C3C	3.43	1.47	1.37
29	N7	1002	PEB	C1A-NA	-3.43	1.33	1.37
29	N9	1002	PEB	C1A-NA	-3.43	1.33	1.37
30	AB	305	PUB	C3B-C2B	3.42	1.47	1.37
29	L9	1002	PEB	C1A-NA	-3.42	1.33	1.37
31	H7	1001	CYC	C2C-C1C	-3.42	1.49	1.52
31	H9	1001	CYC	C2C-C1C	-3.42	1.49	1.52
29	XB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	AM	302	PEB	C2C-C3C	3.42	1.47	1.37
29	XM	201	PEB	C2C-C3C	3.42	1.47	1.37
29	MR	202	PEB	C1A-NA	-3.42	1.33	1.37
29	GJ	201	PEB	CHA-C1B	3.42	1.48	1.40
29	GL	201	PEB	CHA-C1B	3.42	1.48	1.40
29	T1	201	PEB	CHA-C1B	3.42	1.48	1.40
29	cF	201	PEB	CHA-C1B	3.42	1.48	1.40
29	cI	201	PEB	CHA-C1B	3.42	1.48	1.40
29	oJ	201	PEB	CHA-C1B	3.42	1.48	1.40
29	TK	201	PEB	CHA-C1B	3.42	1.48	1.40
29	oL	201	PEB	CHA-C1B	3.42	1.48	1.40
29	L7	1002	PEB	C1A-NA	-3.42	1.33	1.37
29	H7	1002	PEB	CHA-C1B	3.42	1.48	1.40
29	H9	1002	PEB	CHA-C1B	3.42	1.48	1.40
29	SJ	201	PEB	CHA-C1B	3.42	1.48	1.40
29	SL	201	PEB	CHA-C1B	3.42	1.48	1.40
29	R1	201	PEB	CHA-C1B	3.42	1.48	1.40
29	RK	201	PEB	CHA-C1B	3.42	1.48	1.40
29	b1	202	PEB	C2C-C3C	3.42	1.47	1.37
29	cB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	bK	202	PEB	C2C-C3C	3.42	1.47	1.37
29	cM	201	PEB	C2C-C3C	3.42	1.47	1.37
29	MJ	201	PEB	CHA-C1B	3.42	1.48	1.40
29	ML	201	PEB	CHA-C1B	3.42	1.48	1.40
31	L7	1001	CYC	CHB-C4A	3.42	1.48	1.40
31	CK	1001	CYC	CHB-C4A	3.42	1.48	1.40
29	j1	202	PEB	C2C-C3C	3.42	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jK	202	PEB	C2C-C3C	3.42	1.47	1.37
29	P1	203	PEB	C2A-C1A	-3.42	1.49	1.52
29	PK	203	PEB	C2A-C1A	-3.42	1.49	1.52
31	J9	1001	CYC	CHB-C4A	3.42	1.48	1.40
29	h1	202	PEB	C2C-C3C	3.42	1.47	1.37
29	hK	202	PEB	C2C-C3C	3.42	1.47	1.37
29	fB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	fM	201	PEB	C2C-C3C	3.42	1.47	1.37
29	D7	1002	PEB	CHA-C1B	3.42	1.48	1.40
29	D9	1002	PEB	CHA-C1B	3.42	1.48	1.40
29	Q1	202	PEB	C2C-C3C	3.42	1.47	1.37
29	wJ	302	PEB	C2C-C3C	3.42	1.47	1.37
29	QK	202	PEB	C2C-C3C	3.42	1.47	1.37
31	IF	1001	CYC	C3D-C2D	3.42	1.47	1.37
31	II	1001	CYC	C3D-C2D	3.42	1.47	1.37
29	N3	201	PEB	C2C-C3C	3.42	1.47	1.37
29	SB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	ZB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	SM	201	PEB	C2C-C3C	3.42	1.47	1.37
29	ZM	201	PEB	C2C-C3C	3.42	1.47	1.37
31	J7	1001	CYC	C2C-C1C	-3.42	1.49	1.52
29	HB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	HM	201	PEB	C2C-C3C	3.42	1.47	1.37
31	K1	1001	CYC	CHB-C4A	3.42	1.48	1.40
31	KK	1001	CYC	CHB-C4A	3.42	1.48	1.40
29	GG	201	PEB	C2C-C3C	3.42	1.47	1.37
29	GQ	201	PEB	C2C-C3C	3.42	1.47	1.37
31	AP	1001	CYC	C2C-C1C	-3.42	1.49	1.52
29	FC	203	PEB	C2C-C3C	3.42	1.47	1.37
29	FE	203	PEB	C2C-C3C	3.42	1.47	1.37
30	AM	305	PUB	C3B-C2B	3.42	1.47	1.37
29	uJ	202	PEB	CHA-C1B	3.42	1.48	1.40
29	uL	202	PEB	CHA-C1B	3.42	1.48	1.40
29	A5	202	PEB	CHA-C1B	3.42	1.48	1.40
29	L7	1002	PEB	CHA-C1B	3.42	1.48	1.40
29	A8	202	PEB	CHA-C1B	3.42	1.48	1.40
31	G7	1001	CYC	CHB-C4A	3.42	1.48	1.40
29	EB	201	PEB	C2C-C3C	3.42	1.47	1.37
29	EM	201	PEB	C2C-C3C	3.42	1.47	1.37
29	HA	203	PEB	C1A-NA	-3.42	1.33	1.37
29	HN	203	PEB	C1A-NA	-3.42	1.33	1.37
29	JC	202	PEB	C2C-C3C	3.42	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JE	202	PEB	C2C-C3C	3.42	1.47	1.37
29	RB	201	PEB	C2C-C3C	3.41	1.47	1.37
29	kB	201	PEB	C2C-C3C	3.41	1.47	1.37
29	RM	201	PEB	C2C-C3C	3.41	1.47	1.37
29	kM	201	PEB	C2C-C3C	3.41	1.47	1.37
31	E1	1001	CYC	CHB-C4A	3.41	1.48	1.40
29	DA	201	PEB	C2C-C3C	3.41	1.47	1.37
29	DN	201	PEB	C2C-C3C	3.41	1.47	1.37
29	f1	202	PEB	C2C-C3C	3.41	1.47	1.37
29	fK	202	PEB	C2C-C3C	3.41	1.47	1.37
29	NO	201	PEB	C2A-C1A	-3.41	1.49	1.52
31	K9	1001	CYC	CHB-C4A	3.41	1.48	1.40
29	LA	201	PEB	C2C-C3C	3.41	1.47	1.37
29	LN	201	PEB	C2C-C3C	3.41	1.47	1.37
29	TI	201	PEB	CHA-C1B	3.41	1.48	1.40
31	KI	1001	CYC	C3D-C2D	3.41	1.47	1.37
29	i1	201	PEB	CHA-C1B	3.41	1.48	1.40
29	iK	201	PEB	CHA-C1B	3.41	1.48	1.40
29	a1	203	PEB	C2A-C1A	-3.41	1.49	1.52
29	aK	203	PEB	C2A-C1A	-3.41	1.49	1.52
29	JA	201	PEB	C2C-C3C	3.41	1.47	1.37
29	iB	201	PEB	C2C-C3C	3.41	1.47	1.37
29	iM	201	PEB	C2C-C3C	3.41	1.47	1.37
29	JN	201	PEB	C2C-C3C	3.41	1.47	1.37
31	M1	1001	CYC	CHB-C4A	3.41	1.48	1.40
31	MK	1001	CYC	CHB-C4A	3.41	1.48	1.40
29	GB	202	PEB	C2C-C3C	3.41	1.47	1.37
29	GM	202	PEB	C2C-C3C	3.41	1.47	1.37
31	IK	1001	CYC	CHB-C4A	3.41	1.48	1.40
29	LC	203	PEB	C2C-C3C	3.41	1.47	1.37
29	LE	203	PEB	C2C-C3C	3.41	1.47	1.37
29	CB	201	PEB	C2C-C3C	3.41	1.47	1.37
29	CM	201	PEB	C2C-C3C	3.41	1.47	1.37
29	eF	201	PEB	CHA-C1B	3.41	1.48	1.40
29	eI	201	PEB	CHA-C1B	3.41	1.48	1.40
29	mJ	201	PEB	CHA-C1B	3.41	1.48	1.40
29	mL	201	PEB	CHA-C1B	3.41	1.48	1.40
31	C1	1001	CYC	CHB-C4A	3.41	1.48	1.40
31	N7	1001	CYC	CHB-C4A	3.41	1.48	1.40
31	N9	1001	CYC	CHB-C4A	3.41	1.48	1.40
31	GK	1001	CYC	CHB-C4A	3.41	1.48	1.40
31	J7	1001	CYC	CHB-C4A	3.41	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KB	202	PEB	C2C-C3C	3.41	1.47	1.37
29	gB	201	PEB	C2C-C3C	3.41	1.47	1.37
29	KM	202	PEB	C2C-C3C	3.41	1.47	1.37
29	gM	201	PEB	C2C-C3C	3.41	1.47	1.37
29	FA	203	PEB	C1A-NA	-3.41	1.33	1.37
29	FN	203	PEB	C1A-NA	-3.41	1.33	1.37
31	EK	1001	CYC	CHB-C4A	3.41	1.48	1.40
29	S2	202	PEB	C2C-C3C	3.41	1.47	1.37
29	AJ	201	PEB	CHA-C1B	3.41	1.48	1.40
29	AL	201	PEB	CHA-C1B	3.41	1.48	1.40
29	PF	201	PEB	CHA-C1B	3.41	1.48	1.40
29	PI	201	PEB	CHA-C1B	3.41	1.48	1.40
29	aB	202	PEB	C1A-NA	-3.41	1.33	1.37
29	aM	202	PEB	C1A-NA	-3.41	1.33	1.37
31	EF	1001	CYC	C3D-C2D	3.41	1.47	1.37
31	EI	1001	CYC	C3D-C2D	3.41	1.47	1.37
29	I3	203	PEB	C1A-NA	-3.41	1.33	1.37
29	IO	203	PEB	C1A-NA	-3.41	1.33	1.37
29	NO	201	PEB	C2C-C3C	3.41	1.47	1.37
29	iF	201	PEB	CHA-C1B	3.40	1.48	1.40
29	iI	201	PEB	CHA-C1B	3.40	1.48	1.40
29	U2	202	PEB	C2C-C3C	3.40	1.47	1.37
29	AB	302	PEB	C2C-C3C	3.40	1.47	1.37
29	I3	202	PEB	C1A-NA	-3.40	1.33	1.37
29	IO	202	PEB	C1A-NA	-3.40	1.33	1.37
29	O1	202	PEB	C2C-C3C	3.40	1.47	1.37
29	d1	202	PEB	C2C-C3C	3.40	1.47	1.37
29	OK	202	PEB	C2C-C3C	3.40	1.47	1.37
29	dK	202	PEB	C2C-C3C	3.40	1.47	1.37
29	PB	201	PEB	C2C-C3C	3.40	1.47	1.37
29	PM	201	PEB	C2C-C3C	3.40	1.47	1.37
29	Z1	203	PEB	C2C-C3C	3.40	1.47	1.37
29	Q2	202	PEB	C2C-C3C	3.40	1.47	1.37
29	ZK	203	PEB	C2C-C3C	3.40	1.47	1.37
31	CF	1001	CYC	C3D-C2D	3.40	1.47	1.37
31	CI	1001	CYC	C3D-C2D	3.40	1.47	1.37
29	YJ	201	PEB	CHA-C1B	3.40	1.48	1.40
29	YL	201	PEB	CHA-C1B	3.40	1.48	1.40
29	AF	304	PEB	C2C-C3C	3.40	1.47	1.37
29	AI	304	PEB	C2C-C3C	3.40	1.47	1.37
29	H7	1002	PEB	C1A-NA	-3.40	1.33	1.37
29	H9	1002	PEB	C1A-NA	-3.40	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KC	202	PEB	C1A-NA	-3.40	1.33	1.37
29	KE	202	PEB	C1A-NA	-3.40	1.33	1.37
29	lB	201	PEB	C2C-C3C	3.40	1.47	1.37
29	BC	203	PEB	C2C-C3C	3.40	1.47	1.37
29	BE	203	PEB	C2C-C3C	3.40	1.47	1.37
29	lM	201	PEB	C2C-C3C	3.40	1.47	1.37
29	Q1	202	PEB	CHA-C1B	3.40	1.48	1.40
29	QK	202	PEB	CHA-C1B	3.40	1.48	1.40
29	S1	202	PEB	C2C-C3C	3.40	1.47	1.37
29	SK	202	PEB	C2C-C3C	3.40	1.47	1.37
29	UR	202	PEB	C2C-C3C	3.40	1.47	1.37
29	HA	201	PEB	C2C-C3C	3.40	1.47	1.37
29	HN	201	PEB	C2C-C3C	3.40	1.47	1.37
30	A7	302	PUB	C3B-C2B	3.40	1.47	1.37
30	A9	302	PUB	C3B-C2B	3.40	1.47	1.37
29	EJ	201	PEB	CHA-C1B	3.40	1.48	1.40
29	EL	201	PEB	CHA-C1B	3.40	1.48	1.40
29	TB	201	PEB	C2C-C3C	3.40	1.47	1.37
29	TM	201	PEB	C2C-C3C	3.40	1.47	1.37
29	H3	202	PEB	C1A-NA	-3.40	1.33	1.37
29	HO	202	PEB	C1A-NA	-3.40	1.33	1.37
29	YB	203	PEB	C2C-C3C	3.40	1.47	1.37
29	YM	203	PEB	C2C-C3C	3.40	1.47	1.37
31	E1	1001	CYC	C3D-C2D	3.40	1.47	1.37
29	b1	202	PEB	CHA-C1B	3.40	1.48	1.40
29	J7	1002	PEB	CHA-C1B	3.40	1.48	1.40
29	bK	202	PEB	CHA-C1B	3.40	1.48	1.40
29	FA	201	PEB	C2C-C3C	3.40	1.47	1.37
29	FN	201	PEB	C2C-C3C	3.40	1.47	1.37
29	qJ	201	PEB	CHA-C1B	3.40	1.48	1.40
29	qL	201	PEB	CHA-C1B	3.40	1.48	1.40
29	jB	202	PEB	C2C-C3C	3.40	1.47	1.37
29	jM	202	PEB	C2C-C3C	3.40	1.47	1.37
29	j1	202	PEB	CHA-C1B	3.40	1.48	1.40
29	IJ	201	PEB	CHA-C1B	3.40	1.48	1.40
29	jK	202	PEB	CHA-C1B	3.40	1.48	1.40
29	IL	201	PEB	CHA-C1B	3.40	1.48	1.40
29	K5	202	PEB	CHA-C1B	3.40	1.48	1.40
29	K8	202	PEB	CHA-C1B	3.40	1.48	1.40
31	D1	1003	CYC	C3D-C2D	3.40	1.47	1.37
31	IK	1001	CYC	C3D-C2D	3.40	1.47	1.37
29	YF	201	PEB	CHA-C1B	3.40	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YI	201	PEB	CHA-C1B	3.40	1.48	1.40
29	WB	202	PEB	C2C-C3C	3.40	1.47	1.37
29	WM	202	PEB	C2C-C3C	3.40	1.47	1.37
29	C3	202	PEB	C1A-NA	-3.40	1.33	1.37
29	BA	203	PEB	C1A-NA	-3.40	1.33	1.37
29	BN	203	PEB	C1A-NA	-3.40	1.33	1.37
29	CO	202	PEB	C1A-NA	-3.40	1.33	1.37
29	wL	302	PEB	C2C-C3C	3.40	1.47	1.37
29	OJ	201	PEB	CHA-C1B	3.40	1.48	1.40
29	OL	201	PEB	CHA-C1B	3.40	1.48	1.40
31	D7	1001	CYC	CHB-C4A	3.40	1.48	1.40
31	D9	1001	CYC	CHB-C4A	3.40	1.48	1.40
29	F9	1002	PEB	CHA-C1B	3.39	1.48	1.40
29	QB	203	PEB	C2C-C3C	3.39	1.47	1.37
29	QB	204	PEB	C2C-C3C	3.39	1.47	1.37
29	QM	203	PEB	C2C-C3C	3.39	1.47	1.37
29	QM	204	PEB	C2C-C3C	3.39	1.47	1.37
29	KJ	201	PEB	CHA-C1B	3.39	1.48	1.40
29	KL	201	PEB	CHA-C1B	3.39	1.48	1.40
29	g1	203	PEB	C2A-C1A	-3.39	1.49	1.52
29	gK	203	PEB	C2A-C1A	-3.39	1.49	1.52
29	kJ	201	PEB	CHA-C1B	3.39	1.48	1.40
29	kL	201	PEB	CHA-C1B	3.39	1.48	1.40
31	WP	1001	CYC	C3D-C2D	3.39	1.47	1.37
29	S1	202	PEB	CHA-C1B	3.39	1.48	1.40
29	gJ	201	PEB	CHA-C1B	3.39	1.48	1.40
29	SK	202	PEB	CHA-C1B	3.39	1.48	1.40
29	gL	201	PEB	CHA-C1B	3.39	1.48	1.40
31	GF	1001	CYC	C3D-C2D	3.39	1.47	1.37
31	GI	1001	CYC	C3D-C2D	3.39	1.47	1.37
29	L9	1002	PEB	CHA-C1B	3.39	1.48	1.40
29	sJ	201	PEB	CHA-C1B	3.39	1.48	1.40
29	sL	201	PEB	CHA-C1B	3.39	1.48	1.40
29	DA	203	PEB	C1A-NA	-3.39	1.33	1.37
29	xL	303	PEB	C1A-NA	-3.39	1.33	1.37
29	DN	203	PEB	C1A-NA	-3.39	1.33	1.37
29	iJ	202	PEB	C2C-C3C	3.39	1.47	1.37
29	iL	202	PEB	C2C-C3C	3.39	1.47	1.37
29	O2	202	PEB	C2C-C3C	3.39	1.47	1.37
29	EB	202	PEB	C2C-C3C	3.39	1.47	1.37
29	EM	202	PEB	C2C-C3C	3.39	1.47	1.37
29	kJ	202	PEB	C2C-C3C	3.39	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	kL	202	PEB	C2C-C3C	3.39	1.47	1.37
31	J9	1001	CYC	C2C-C1C	-3.39	1.49	1.52
29	e2	402	PEB	C1A-NA	-3.39	1.33	1.37
31	F9	1001	CYC	CHB-C4A	3.39	1.48	1.40
31	KF	1001	CYC	C3D-C2D	3.39	1.47	1.37
29	AA	202	PEB	C1A-NA	-3.39	1.33	1.37
29	AN	202	PEB	C1A-NA	-3.39	1.33	1.37
29	SB	202	PEB	C2C-C3C	3.39	1.47	1.37
29	eJ	202	PEB	C2C-C3C	3.39	1.47	1.37
29	eL	202	PEB	C2C-C3C	3.39	1.47	1.37
29	SM	202	PEB	C2C-C3C	3.39	1.47	1.37
29	C3	201	PEB	C2C-C3C	3.39	1.47	1.37
29	oJ	202	PEB	C2C-C3C	3.39	1.47	1.37
29	oL	202	PEB	C2C-C3C	3.39	1.47	1.37
29	CO	201	PEB	C2C-C3C	3.39	1.47	1.37
29	QJ	201	PEB	CHA-C1B	3.39	1.48	1.40
29	QL	201	PEB	CHA-C1B	3.39	1.48	1.40
29	AM	301	PEB	C2C-C3C	3.39	1.47	1.37
29	cJ	202	PEB	C2C-C3C	3.39	1.47	1.37
29	cL	202	PEB	C2C-C3C	3.39	1.47	1.37
29	OJ	202	PEB	C2C-C3C	3.39	1.47	1.37
29	OL	202	PEB	C2C-C3C	3.39	1.47	1.37
31	H7	1001	CYC	CHB-C4A	3.39	1.48	1.40
31	H9	1001	CYC	CHB-C4A	3.39	1.48	1.40
29	P2	202	PEB	C2C-C3C	3.39	1.47	1.37
29	PR	202	PEB	C2C-C3C	3.39	1.47	1.37
29	QR	202	PEB	C2C-C3C	3.39	1.47	1.37
29	R2	203	PEB	C2C-C3C	3.38	1.47	1.37
29	RR	203	PEB	C2C-C3C	3.38	1.47	1.37
29	JA	203	PEB	C2C-C3C	3.38	1.47	1.37
29	JN	203	PEB	C2C-C3C	3.38	1.47	1.37
29	GG	202	PEB	C1A-NA	-3.38	1.33	1.37
29	GQ	202	PEB	C1A-NA	-3.38	1.33	1.37
29	U1	203	PEB	CHA-C1B	3.38	1.48	1.40
29	UK	203	PEB	CHA-C1B	3.38	1.48	1.40
29	CB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	CM	202	PEB	C2C-C3C	3.38	1.47	1.37
29	d1	202	PEB	CHA-C1B	3.38	1.48	1.40
29	dK	202	PEB	CHA-C1B	3.38	1.48	1.40
29	J9	1002	PEB	CHA-C1B	3.38	1.48	1.40
29	h1	202	PEB	CHA-C1B	3.38	1.48	1.40
29	hK	202	PEB	CHA-C1B	3.38	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	hB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	hM	202	PEB	C2C-C3C	3.38	1.47	1.37
29	NR	203	PEB	C2C-C3C	3.38	1.47	1.37
29	KJ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	KL	202	PEB	C2C-C3C	3.38	1.47	1.37
29	DC	202	PEB	C2C-C3C	3.38	1.47	1.37
29	DE	202	PEB	C2C-C3C	3.38	1.47	1.37
29	MJ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	ML	202	PEB	C2C-C3C	3.38	1.47	1.37
29	JA	203	PEB	C1A-NA	-3.38	1.33	1.37
29	JN	203	PEB	C1A-NA	-3.38	1.33	1.37
29	OB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	OM	202	PEB	C2C-C3C	3.38	1.47	1.37
31	M1	1001	CYC	C3D-C2D	3.38	1.47	1.37
31	MK	1001	CYC	C3D-C2D	3.38	1.47	1.37
29	MN	405	PEB	C1A-NA	-3.38	1.33	1.37
29	W1	202	PEB	CHA-C1B	3.38	1.48	1.40
29	CJ	201	PEB	CHA-C1B	3.38	1.48	1.40
29	WK	202	PEB	CHA-C1B	3.38	1.48	1.40
29	CL	201	PEB	CHA-C1B	3.38	1.48	1.40
29	X2	202	PEB	C2C-C3C	3.38	1.47	1.37
29	XR	203	PEB	C2C-C3C	3.38	1.47	1.37
29	O2	201	PEB	C2A-C1A	-3.38	1.49	1.52
29	lB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	BG	202	PEB	C2C-C3C	3.38	1.47	1.37
29	lM	202	PEB	C2C-C3C	3.38	1.47	1.37
29	BQ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	fB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	uJ	203	PEB	C2C-C3C	3.38	1.47	1.37
29	uL	203	PEB	C2C-C3C	3.38	1.47	1.37
29	fM	202	PEB	C2C-C3C	3.38	1.47	1.37
29	T1	202	PEB	C2A-C1A	-3.38	1.49	1.52
29	TK	202	PEB	C2A-C1A	-3.38	1.49	1.52
29	UB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	EJ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	EL	202	PEB	C2C-C3C	3.38	1.47	1.37
29	MQ	401	PEB	C2C-C3C	3.38	1.47	1.37
29	LA	203	PEB	C2C-C3C	3.38	1.47	1.37
29	LN	203	PEB	C2C-C3C	3.38	1.47	1.37
29	N7	1002	PEB	CHA-C1B	3.38	1.48	1.40
29	N9	1002	PEB	CHA-C1B	3.38	1.48	1.40
29	V2	203	PEB	C2C-C3C	3.38	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mJ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	mL	202	PEB	C2C-C3C	3.38	1.47	1.37
29	fI	202	PEB	CHA-C1B	3.38	1.48	1.40
29	fK	202	PEB	CHA-C1B	3.38	1.48	1.40
29	MB	202	PEB	C2C-C3C	3.38	1.47	1.37
29	MM	202	PEB	C2C-C3C	3.38	1.47	1.37
29	sJ	202	PEB	C2C-C3C	3.38	1.47	1.37
29	sL	202	PEB	C2C-C3C	3.38	1.47	1.37
29	WJ	202	PEB	CHA-C1B	3.38	1.48	1.40
29	WL	202	PEB	CHA-C1B	3.38	1.48	1.40
29	lF	202	PEB	C2C-C3C	3.37	1.47	1.37
29	lI	202	PEB	C2C-C3C	3.37	1.47	1.37
29	aJ	201	PEB	CHA-C1B	3.37	1.48	1.40
29	aL	201	PEB	CHA-C1B	3.37	1.48	1.40
31	lI	1001	CYC	C3D-C2D	3.37	1.47	1.37
31	GK	1001	CYC	C3D-C2D	3.37	1.47	1.37
29	KG	202	PEB	C2C-C3C	3.37	1.47	1.37
29	KQ	202	PEB	C2C-C3C	3.37	1.47	1.37
29	QJ	202	PEB	C2C-C3C	3.37	1.47	1.37
29	QL	202	PEB	C2C-C3C	3.37	1.47	1.37
29	aB	202	PEB	C2C-C3C	3.37	1.47	1.37
29	aM	202	PEB	C2C-C3C	3.37	1.47	1.37
29	R1	203	PEB	C2A-C1A	-3.37	1.49	1.52
29	RK	203	PEB	C2A-C1A	-3.37	1.49	1.52
29	K3	201	PEB	C2C-C3C	3.37	1.47	1.37
29	KO	201	PEB	C2C-C3C	3.37	1.47	1.37
29	Z1	203	PEB	CHA-C1B	3.37	1.48	1.40
29	ZK	203	PEB	CHA-C1B	3.37	1.48	1.40
29	E3	201	PEB	C2C-C3C	3.37	1.47	1.37
29	IB	202	PEB	C2C-C3C	3.37	1.47	1.37
29	CJ	202	PEB	C2C-C3C	3.37	1.47	1.37
29	CL	202	PEB	C2C-C3C	3.37	1.47	1.37
29	IM	202	PEB	C2C-C3C	3.37	1.47	1.37
29	EO	201	PEB	C2C-C3C	3.37	1.47	1.37
30	MN	403	PUB	C3B-C2B	3.37	1.47	1.37
29	I3	203	PEB	C2C-C3C	3.37	1.47	1.37
29	DA	203	PEB	C2C-C3C	3.37	1.47	1.37
29	WJ	203	PEB	C2C-C3C	3.37	1.47	1.37
29	WL	203	PEB	C2C-C3C	3.37	1.47	1.37
29	DN	203	PEB	C2C-C3C	3.37	1.47	1.37
29	IO	203	PEB	C2C-C3C	3.37	1.47	1.37
29	CC	201	PEB	C1A-NA	-3.37	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CE	201	PEB	C1A-NA	-3.37	1.33	1.37
29	cJ	201	PEB	CHA-C1B	3.37	1.48	1.40
29	cL	201	PEB	CHA-C1B	3.37	1.48	1.40
29	NO	203	PEB	C2A-C1A	-3.37	1.49	1.52
29	OR	201	PEB	C2A-C1A	-3.37	1.49	1.52
29	EG	202	PEB	C2C-C3C	3.37	1.47	1.37
29	EQ	202	PEB	C2C-C3C	3.37	1.47	1.37
31	yP	1001	CYC	C3D-C2D	3.37	1.47	1.37
29	A1	303	PEB	C2C-C3C	3.37	1.47	1.37
29	dB	202	PEB	C2C-C3C	3.37	1.47	1.37
29	AK	303	PEB	C2C-C3C	3.37	1.47	1.37
29	dM	202	PEB	C2C-C3C	3.37	1.47	1.37
31	EK	1001	CYC	C3D-C2D	3.37	1.47	1.37
29	I3	201	PEB	C2C-C3C	3.37	1.47	1.37
29	IO	201	PEB	C2C-C3C	3.37	1.47	1.37
29	UJ	201	PEB	CHA-C1B	3.37	1.48	1.40
29	UL	201	PEB	CHA-C1B	3.37	1.48	1.40
29	SJ	202	PEB	C2C-C3C	3.37	1.47	1.37
29	SL	202	PEB	C2C-C3C	3.37	1.47	1.37
29	iJ	201	PEB	CHA-C1B	3.37	1.48	1.40
29	iL	201	PEB	CHA-C1B	3.37	1.48	1.40
31	K1	1001	CYC	C3D-C2D	3.37	1.47	1.37
31	KK	1001	CYC	C3D-C2D	3.37	1.47	1.37
29	GJ	202	PEB	C2C-C3C	3.37	1.47	1.37
29	GL	202	PEB	C2C-C3C	3.37	1.47	1.37
29	AB	301	PEB	C2C-C3C	3.37	1.47	1.37
29	WF	201	PEB	CHA-C1B	3.37	1.48	1.40
29	WI	201	PEB	CHA-C1B	3.37	1.48	1.40
29	l1	201	PEB	CHA-C1B	3.37	1.48	1.40
29	SF	201	PEB	CHA-C1B	3.37	1.48	1.40
29	SI	201	PEB	CHA-C1B	3.37	1.48	1.40
29	lK	201	PEB	CHA-C1B	3.37	1.48	1.40
29	UJ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	UL	202	PEB	C2C-C3C	3.36	1.47	1.37
29	FA	203	PEB	C2C-C3C	3.36	1.47	1.37
29	FN	203	PEB	C2C-C3C	3.36	1.47	1.37
29	gJ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	gL	202	PEB	C2C-C3C	3.36	1.47	1.37
31	F7	1001	CYC	C2C-C1C	-3.36	1.49	1.52
29	YJ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	YL	202	PEB	C2C-C3C	3.36	1.47	1.37
29	yJ	301	PEB	CHA-C1B	3.36	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	yL	301	PEB	CHA-C1B	3.36	1.48	1.40
29	IJ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	IL	202	PEB	C2C-C3C	3.36	1.47	1.37
29	I4	203	PEB	C1A-NA	-3.36	1.33	1.37
29	A3	201	PEB	C2C-C3C	3.36	1.47	1.37
29	aJ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	aL	202	PEB	C2C-C3C	3.36	1.47	1.37
29	AO	201	PEB	C2C-C3C	3.36	1.47	1.37
29	MA	401	PEB	C2C-C3C	3.36	1.47	1.37
29	ZF	202	PEB	C2C-C3C	3.36	1.47	1.37
29	ZI	202	PEB	C2C-C3C	3.36	1.47	1.37
29	O1	201	PEB	CHA-C1B	3.36	1.48	1.40
29	OK	201	PEB	CHA-C1B	3.36	1.48	1.40
31	F7	1001	CYC	CHB-C4A	3.36	1.48	1.40
29	fB	202	PEB	CHA-C1B	3.36	1.48	1.40
29	fM	202	PEB	CHA-C1B	3.36	1.48	1.40
29	AG	202	PEB	C2C-C3C	3.36	1.47	1.37
29	AQ	202	PEB	C2C-C3C	3.36	1.47	1.37
29	QF	202	PEB	C2C-C3C	3.36	1.47	1.37
29	QI	202	PEB	C2C-C3C	3.36	1.47	1.37
29	LC	201	PEB	C1A-NA	-3.36	1.33	1.37
29	LE	201	PEB	C1A-NA	-3.36	1.33	1.37
29	G3	201	PEB	C2C-C3C	3.36	1.47	1.37
29	GO	201	PEB	C2C-C3C	3.36	1.47	1.37
29	O1	202	PEB	CHA-C1B	3.36	1.48	1.40
29	OK	202	PEB	CHA-C1B	3.36	1.48	1.40
29	MA	405	PEB	C2C-C3C	3.36	1.47	1.37
29	VR	203	PEB	C2C-C3C	3.36	1.47	1.37
29	l1	202	PEB	CHA-C1B	3.36	1.48	1.40
29	lK	202	PEB	CHA-C1B	3.36	1.48	1.40
30	BB	302	PUB	OD-C4D	3.36	1.30	1.23
30	BM	302	PUB	OD-C4D	3.36	1.30	1.23
29	Y1	202	PEB	C2A-C1A	-3.36	1.49	1.52
29	YK	202	PEB	C2A-C1A	-3.36	1.49	1.52
29	J3	202	PEB	C2C-C3C	3.36	1.47	1.37
29	JO	202	PEB	C2C-C3C	3.36	1.47	1.37
29	EB	202	PEB	CHA-C1B	3.36	1.48	1.40
29	EM	202	PEB	CHA-C1B	3.36	1.48	1.40
29	fF	201	PEB	CHA-C1B	3.35	1.48	1.40
29	fI	201	PEB	CHA-C1B	3.35	1.48	1.40
29	BA	203	PEB	C2C-C3C	3.35	1.47	1.37
29	BN	203	PEB	C2C-C3C	3.35	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	MA	403	PUB	C3B-C2B	3.35	1.47	1.37
29	T2	203	PEB	C2C-C3C	3.35	1.47	1.37
29	b7	202	PEB	C2C-C3C	3.35	1.47	1.37
29	b9	202	PEB	C2C-C3C	3.35	1.47	1.37
29	HA	203	PEB	C2C-C3C	3.35	1.47	1.37
29	HN	203	PEB	C2C-C3C	3.35	1.47	1.37
29	LG	202	PEB	C2C-C3C	3.35	1.47	1.37
29	LQ	201	PEB	C2C-C3C	3.35	1.47	1.37
29	jF	202	PEB	C2C-C3C	3.35	1.47	1.37
29	jI	202	PEB	C2C-C3C	3.35	1.47	1.37
29	AJ	202	PEB	C2C-C3C	3.35	1.47	1.37
29	AL	202	PEB	C2C-C3C	3.35	1.47	1.37
29	TR	203	PEB	C2C-C3C	3.35	1.47	1.37
29	FC	201	PEB	C1A-NA	-3.35	1.33	1.37
29	FE	201	PEB	C1A-NA	-3.35	1.33	1.37
29	IG	202	PEB	C2C-C3C	3.35	1.47	1.37
29	IQ	202	PEB	C2C-C3C	3.35	1.47	1.37
29	N2	203	PEB	C2C-C3C	3.35	1.47	1.37
29	B3	202	PEB	C2C-C3C	3.35	1.47	1.37
29	BO	202	PEB	C2C-C3C	3.35	1.47	1.37
29	wL	303	PEB	C1A-NA	-3.35	1.33	1.37
29	dF	202	PEB	CHA-C1B	3.35	1.48	1.40
29	dI	202	PEB	CHA-C1B	3.35	1.48	1.40
29	fI	201	PEB	CHA-C1B	3.35	1.48	1.40
29	fK	201	PEB	CHA-C1B	3.35	1.48	1.40
29	H3	202	PEB	C2C-C3C	3.35	1.47	1.37
29	HO	202	PEB	C2C-C3C	3.35	1.47	1.37
29	j7	202	PEB	C2C-C3C	3.35	1.47	1.37
29	j9	202	PEB	C2C-C3C	3.35	1.47	1.37
29	hF	202	PEB	C2C-C3C	3.35	1.47	1.37
29	hI	202	PEB	C2C-C3C	3.35	1.47	1.37
29	BC	203	PEB	C1A-NA	-3.35	1.33	1.37
29	BE	203	PEB	C1A-NA	-3.35	1.33	1.37
29	JG	202	PEB	C1A-NA	-3.35	1.33	1.37
29	JQ	202	PEB	C1A-NA	-3.35	1.33	1.37
29	OF	202	PEB	C2C-C3C	3.35	1.47	1.37
29	OI	202	PEB	C2C-C3C	3.35	1.47	1.37
29	bF	201	PEB	CHA-C1B	3.35	1.48	1.40
29	bI	201	PEB	CHA-C1B	3.35	1.48	1.40
29	G5	201	PEB	C2C-C3C	3.35	1.47	1.37
29	QF	201	PEB	CHA-C1B	3.35	1.48	1.40
29	QI	201	PEB	CHA-C1B	3.35	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	F5	201	PEB	C2C-C3C	3.35	1.47	1.37
29	F8	201	PEB	C2C-C3C	3.35	1.47	1.37
29	Z1	202	PEB	CHA-C1B	3.34	1.48	1.40
29	ZK	202	PEB	CHA-C1B	3.34	1.48	1.40
29	l7	202	PEB	C2C-C3C	3.34	1.47	1.37
29	l9	202	PEB	C2C-C3C	3.34	1.47	1.37
29	HG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	HQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	AG	202	PEB	C1A-NA	-3.34	1.33	1.37
29	AQ	202	PEB	C1A-NA	-3.34	1.33	1.37
29	MN	401	PEB	C2C-C3C	3.34	1.47	1.37
29	W1	201	PEB	CHA-C1B	3.34	1.48	1.40
29	IB	202	PEB	CHA-C1B	3.34	1.48	1.40
29	WK	201	PEB	CHA-C1B	3.34	1.48	1.40
29	IM	202	PEB	CHA-C1B	3.34	1.48	1.40
31	C1	1001	CYC	C3D-C2D	3.34	1.47	1.37
31	I7	1001	CYC	C3D-C2D	3.34	1.47	1.37
31	I9	1001	CYC	C3D-C2D	3.34	1.47	1.37
29	bF	202	PEB	C2C-C3C	3.34	1.47	1.37
29	GG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	bI	202	PEB	C2C-C3C	3.34	1.47	1.37
29	qJ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	qL	202	PEB	C2C-C3C	3.34	1.47	1.37
29	GQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	HC	203	PEB	C1A-NA	-3.34	1.33	1.37
29	HE	203	PEB	C1A-NA	-3.34	1.33	1.37
29	F3	202	PEB	C2C-C3C	3.34	1.47	1.37
29	FO	202	PEB	C2C-C3C	3.34	1.47	1.37
29	AF	305	PEB	C2C-C3C	3.34	1.47	1.37
29	dF	203	PEB	C2C-C3C	3.34	1.47	1.37
29	CG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	AI	305	PEB	C2C-C3C	3.34	1.47	1.37
29	dI	203	PEB	C2C-C3C	3.34	1.47	1.37
29	CQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	b1	201	PEB	CHA-C1B	3.34	1.48	1.40
29	bK	201	PEB	CHA-C1B	3.34	1.48	1.40
29	DC	202	PEB	C1A-NA	-3.34	1.33	1.37
29	DE	202	PEB	C1A-NA	-3.34	1.33	1.37
29	AF	301	PEB	CHA-C1B	3.34	1.48	1.40
29	AI	301	PEB	CHA-C1B	3.34	1.48	1.40
29	G8	201	PEB	C2C-C3C	3.34	1.47	1.37
29	A1	301	PEB	C2C-C3C	3.34	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AK	301	PEB	C2C-C3C	3.34	1.47	1.37
31	N7	1001	CYC	C2C-C1C	-3.34	1.49	1.52
31	N9	1001	CYC	C2C-C1C	-3.34	1.49	1.52
31	CK	1001	CYC	C3D-C2D	3.34	1.47	1.37
29	g1	203	PEB	C2C-C3C	3.34	1.47	1.37
29	h7	202	PEB	C2C-C3C	3.34	1.47	1.37
29	h9	202	PEB	C2C-C3C	3.34	1.47	1.37
29	DG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	gK	203	PEB	C2C-C3C	3.34	1.47	1.37
29	DQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	V1	203	PEB	C2A-C1A	-3.34	1.49	1.52
29	VK	203	PEB	C2A-C1A	-3.34	1.49	1.52
29	FG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	FQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	wJ	303	PEB	C1A-NA	-3.34	1.33	1.37
29	B5	201	PEB	C2C-C3C	3.34	1.47	1.37
29	wJ	303	PEB	CHA-C1B	3.34	1.48	1.40
29	JG	202	PEB	C2C-C3C	3.34	1.47	1.37
29	JQ	202	PEB	C2C-C3C	3.34	1.47	1.37
29	J3	201	PEB	C2C-C3C	3.34	1.47	1.37
29	B8	201	PEB	C2C-C3C	3.34	1.47	1.37
29	JO	201	PEB	C2C-C3C	3.34	1.47	1.37
29	SR	202	PEB	C2C-C3C	3.34	1.47	1.37
29	OB	202	PEB	CHA-C1B	3.33	1.48	1.40
29	OM	202	PEB	CHA-C1B	3.33	1.48	1.40
31	K9	1001	CYC	C3D-C2D	3.33	1.47	1.37
29	h1	201	PEB	CHA-C1B	3.33	1.48	1.40
29	hK	201	PEB	CHA-C1B	3.33	1.48	1.40
29	f7	202	PEB	C2C-C3C	3.33	1.47	1.37
29	f9	202	PEB	C2C-C3C	3.33	1.47	1.37
29	L5	202	PEB	C2C-C3C	3.33	1.47	1.37
29	d7	202	PEB	C2C-C3C	3.33	1.47	1.37
29	d9	202	PEB	C2C-C3C	3.33	1.47	1.37
29	L3	201	PEB	C2C-C3C	3.33	1.47	1.37
29	LO	201	PEB	C2C-C3C	3.33	1.47	1.37
29	xJ	303	PEB	CHA-C1B	3.33	1.48	1.40
31	E7	1001	CYC	C3D-C2D	3.33	1.47	1.37
31	E9	1001	CYC	C3D-C2D	3.33	1.47	1.37
29	MB	202	PEB	CHA-C1B	3.33	1.48	1.40
29	MM	202	PEB	CHA-C1B	3.33	1.48	1.40
29	SF	202	PEB	C2C-C3C	3.33	1.47	1.37
29	UF	203	PEB	C2C-C3C	3.33	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	SI	202	PEB	C2C-C3C	3.33	1.47	1.37
29	UI	203	PEB	C2C-C3C	3.33	1.47	1.37
29	jF	201	PEB	CHA-C1B	3.33	1.48	1.40
29	jI	201	PEB	CHA-C1B	3.33	1.48	1.40
29	hB	202	PEB	CHA-C1B	3.33	1.48	1.40
29	hM	202	PEB	CHA-C1B	3.33	1.48	1.40
29	YB	203	PEB	CHA-C1B	3.33	1.48	1.40
29	YM	203	PEB	CHA-C1B	3.33	1.48	1.40
31	K7	1001	CYC	C3D-C2D	3.33	1.47	1.37
29	WF	202	PEB	C2C-C3C	3.33	1.47	1.37
29	WI	202	PEB	C2C-C3C	3.33	1.47	1.37
29	OF	201	PEB	CHA-C1B	3.33	1.48	1.40
29	OI	201	PEB	CHA-C1B	3.33	1.48	1.40
29	R7	203	PEB	C2C-C3C	3.33	1.47	1.37
29	R9	203	PEB	C2C-C3C	3.33	1.47	1.37
29	S7	202	PEB	C2C-C3C	3.33	1.47	1.37
29	S9	202	PEB	C2C-C3C	3.33	1.47	1.37
29	ZF	201	PEB	C2C-C3C	3.33	1.47	1.37
29	ZI	201	PEB	C2C-C3C	3.33	1.47	1.37
29	aB	202	PEB	CHA-C1B	3.33	1.48	1.40
29	aM	202	PEB	CHA-C1B	3.33	1.48	1.40
29	fF	202	PEB	C2C-C3C	3.33	1.47	1.37
29	fI	202	PEB	C2C-C3C	3.33	1.47	1.37
29	MN	405	PEB	C2C-C3C	3.33	1.47	1.37
29	QF	201	PEB	C2C-C3C	3.33	1.47	1.37
29	QI	201	PEB	C2C-C3C	3.33	1.47	1.37
29	WB	202	PEB	CHA-C1B	3.33	1.48	1.40
29	xL	303	PEB	CHA-C1B	3.33	1.48	1.40
29	WM	202	PEB	CHA-C1B	3.33	1.48	1.40
31	GF	1001	CYC	CHB-C4A	3.33	1.48	1.40
31	GI	1001	CYC	CHB-C4A	3.33	1.48	1.40
29	ZF	201	PEB	CHA-C1B	3.32	1.48	1.40
29	ZI	201	PEB	CHA-C1B	3.32	1.48	1.40
29	M3	203	PEB	C2A-C1A	-3.32	1.49	1.52
29	MO	203	PEB	C2A-C1A	-3.32	1.49	1.52
29	U7	202	PEB	C2C-C3C	3.32	1.47	1.37
29	U9	202	PEB	C2C-C3C	3.32	1.47	1.37
29	DC	201	PEB	C1A-NA	-3.32	1.33	1.37
29	DE	201	PEB	C1A-NA	-3.32	1.33	1.37
29	EG	202	PEB	C1A-NA	-3.32	1.33	1.37
29	EQ	202	PEB	C1A-NA	-3.32	1.33	1.37
29	P1	203	PEB	C2C-C3C	3.32	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	PK	203	PEB	C2C-C3C	3.32	1.47	1.37
29	i1	203	PEB	C2C-C3C	3.32	1.47	1.37
29	iK	203	PEB	C2C-C3C	3.32	1.47	1.37
31	YP	1000	CYC	C3D-C2D	3.32	1.47	1.37
29	SB	202	PEB	CHA-C1B	3.32	1.48	1.40
29	SM	202	PEB	CHA-C1B	3.32	1.48	1.40
29	A7	304	PEB	C1A-NA	-3.32	1.33	1.37
29	B3	201	PEB	C2C-C3C	3.32	1.47	1.37
29	F3	201	PEB	C2C-C3C	3.32	1.47	1.37
29	BO	201	PEB	C2C-C3C	3.32	1.47	1.37
29	FO	201	PEB	C2C-C3C	3.32	1.47	1.37
29	Q7	202	PEB	C2C-C3C	3.32	1.47	1.37
29	Q9	202	PEB	C2C-C3C	3.32	1.47	1.37
29	SJ	202	PEB	CHA-C1B	3.32	1.48	1.40
29	SL	202	PEB	CHA-C1B	3.32	1.48	1.40
29	e1	203	PEB	C2C-C3C	3.32	1.47	1.37
29	eK	203	PEB	C2C-C3C	3.32	1.47	1.37
29	XB	202	PEB	C2A-C1A	-3.32	1.49	1.52
29	XM	202	PEB	C2A-C1A	-3.32	1.49	1.52
29	QB	204	PEB	CHA-C1B	3.32	1.48	1.40
29	aJ	202	PEB	CHA-C1B	3.32	1.48	1.40
29	aL	202	PEB	CHA-C1B	3.32	1.48	1.40
29	QM	204	PEB	CHA-C1B	3.32	1.48	1.40
29	AM	303	PEB	C1A-NA	-3.32	1.33	1.37
29	S1	201	PEB	CHA-C1B	3.32	1.48	1.40
29	SK	201	PEB	CHA-C1B	3.32	1.48	1.40
29	wL	303	PEB	CHA-C1B	3.32	1.48	1.40
31	G7	1001	CYC	C3D-C2D	3.32	1.47	1.37
29	D3	201	PEB	C2C-C3C	3.32	1.47	1.37
29	DO	201	PEB	C2C-C3C	3.32	1.47	1.37
29	W7	202	PEB	C2C-C3C	3.32	1.47	1.37
29	W9	202	PEB	C2C-C3C	3.32	1.47	1.37
29	U1	202	PEB	CHA-C1B	3.32	1.48	1.40
29	UK	202	PEB	CHA-C1B	3.32	1.48	1.40
29	I8	203	PEB	C2C-C3C	3.32	1.47	1.37
29	lF	201	PEB	C2C-C3C	3.32	1.47	1.37
29	lI	201	PEB	C2C-C3C	3.32	1.47	1.37
29	XR	201	PEB	C2C-C3C	3.32	1.47	1.37
29	K5	203	PEB	C2C-C3C	3.32	1.47	1.37
29	O7	202	PEB	C2C-C3C	3.32	1.47	1.37
29	K8	203	PEB	C2C-C3C	3.32	1.47	1.37
29	O9	202	PEB	C2C-C3C	3.32	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	hF	201	PEB	C2C-C3C	3.32	1.47	1.37
29	hI	201	PEB	C2C-C3C	3.32	1.47	1.37
29	m1	202	PEB	C2C-C3C	3.32	1.47	1.37
29	mK	202	PEB	C2C-C3C	3.32	1.47	1.37
29	Q1	201	PEB	CHA-C1B	3.32	1.48	1.40
29	QK	201	PEB	CHA-C1B	3.32	1.48	1.40
31	IF	1001	CYC	CHB-C4A	3.32	1.48	1.40
31	II	1001	CYC	CHB-C4A	3.32	1.48	1.40
29	DG	201	PEB	CHA-C1B	3.32	1.48	1.40
29	DQ	201	PEB	CHA-C1B	3.32	1.48	1.40
29	dB	202	PEB	CHA-C1B	3.32	1.48	1.40
29	hF	201	PEB	CHA-C1B	3.32	1.48	1.40
29	hI	201	PEB	CHA-C1B	3.32	1.48	1.40
29	dM	202	PEB	CHA-C1B	3.32	1.48	1.40
29	R1	203	PEB	C2C-C3C	3.32	1.47	1.37
29	RK	203	PEB	C2C-C3C	3.32	1.47	1.37
31	1P	1002	CYC	C3D-C2D	3.31	1.47	1.37
29	mJ	202	PEB	CHA-C1B	3.31	1.48	1.40
29	mL	202	PEB	CHA-C1B	3.31	1.48	1.40
31	C7	1001	CYC	C3D-C2D	3.31	1.47	1.37
31	C9	1001	CYC	C3D-C2D	3.31	1.47	1.37
29	jF	201	PEB	C2C-C3C	3.31	1.47	1.37
29	jI	201	PEB	C2C-C3C	3.31	1.47	1.37
29	WJ	203	PEB	CHA-C1B	3.31	1.48	1.40
29	WL	203	PEB	CHA-C1B	3.31	1.48	1.40
29	UJ	202	PEB	CHA-C1B	3.31	1.48	1.40
29	UL	202	PEB	CHA-C1B	3.31	1.48	1.40
31	G9	1001	CYC	C3D-C2D	3.31	1.47	1.37
31	qP	1001	CYC	C3D-C2D	3.31	1.47	1.37
29	L8	202	PEB	C2C-C3C	3.31	1.47	1.37
29	KC	201	PEB	C1A-NA	-3.31	1.33	1.37
29	KE	201	PEB	C1A-NA	-3.31	1.33	1.37
29	c1	203	PEB	C2A-C1A	-3.31	1.49	1.52
29	cK	203	PEB	C2A-C1A	-3.31	1.49	1.52
29	d1	201	PEB	CHA-C1B	3.31	1.48	1.40
29	dK	201	PEB	CHA-C1B	3.31	1.48	1.40
29	BC	201	PEB	C1A-NA	-3.31	1.33	1.37
29	BE	201	PEB	C1A-NA	-3.31	1.33	1.37
29	lB	202	PEB	CHA-C1B	3.31	1.48	1.40
29	BG	201	PEB	CHA-C1B	3.31	1.48	1.40
29	lM	202	PEB	CHA-C1B	3.31	1.48	1.40
29	BQ	201	PEB	CHA-C1B	3.31	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H8	202	PEB	C2C-C3C	3.31	1.47	1.37
29	T1	202	PEB	C2C-C3C	3.31	1.47	1.37
29	I5	203	PEB	C2C-C3C	3.31	1.47	1.37
29	TK	202	PEB	C2C-C3C	3.31	1.47	1.37
29	JG	201	PEB	CHA-C1B	3.31	1.48	1.40
29	qJ	202	PEB	CHA-C1B	3.31	1.48	1.40
29	qL	202	PEB	CHA-C1B	3.31	1.48	1.40
29	JQ	201	PEB	CHA-C1B	3.31	1.48	1.40
29	k1	203	PEB	C2A-C1A	-3.31	1.49	1.52
29	kK	203	PEB	C2A-C1A	-3.31	1.49	1.52
29	F5	202	PEB	C2C-C3C	3.31	1.47	1.37
29	Z7	202	PEB	C2C-C3C	3.31	1.47	1.37
29	Z9	202	PEB	C2C-C3C	3.31	1.47	1.37
29	SF	201	PEB	C2C-C3C	3.31	1.47	1.37
29	SI	201	PEB	C2C-C3C	3.31	1.47	1.37
31	M7	1001	CYC	C3D-C2D	3.31	1.47	1.37
29	HG	202	PEB	C1A-NA	-3.31	1.33	1.37
29	HQ	202	PEB	C1A-NA	-3.31	1.33	1.37
29	V1	203	PEB	C2C-C3C	3.31	1.47	1.37
29	H3	201	PEB	C2C-C3C	3.31	1.47	1.37
29	VK	203	PEB	C2C-C3C	3.31	1.47	1.37
29	HO	201	PEB	C2C-C3C	3.31	1.47	1.37
29	jB	202	PEB	CHA-C1B	3.31	1.48	1.40
29	jM	202	PEB	CHA-C1B	3.31	1.48	1.40
31	QP	1001	CYC	C3D-C2D	3.31	1.47	1.37
31	fP	1001	CYC	C3D-C2D	3.31	1.47	1.37
29	UB	202	PEB	CHA-C1B	3.31	1.48	1.40
29	oJ	202	PEB	CHA-C1B	3.31	1.48	1.40
29	oL	202	PEB	CHA-C1B	3.31	1.48	1.40
29	MQ	401	PEB	CHA-C1B	3.31	1.48	1.40
29	k1	203	PEB	C2C-C3C	3.31	1.47	1.37
29	bF	201	PEB	C2C-C3C	3.31	1.47	1.37
29	bI	201	PEB	C2C-C3C	3.31	1.47	1.37
29	kK	203	PEB	C2C-C3C	3.31	1.47	1.37
29	UF	202	PEB	CHA-C1B	3.31	1.48	1.40
29	UI	202	PEB	CHA-C1B	3.31	1.48	1.40
29	i7	203	PEB	C2C-C3C	3.31	1.47	1.37
29	i9	203	PEB	C2C-C3C	3.31	1.47	1.37
29	CG	202	PEB	C1A-NA	-3.30	1.33	1.37
29	CQ	202	PEB	C1A-NA	-3.30	1.33	1.37
29	L5	203	PEB	C2C-C3C	3.30	1.47	1.37
29	Y7	203	PEB	C2C-C3C	3.30	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	Y9	203	PEB	C2C-C3C	3.30	1.47	1.37
29	GB	202	PEB	CHA-C1B	3.30	1.48	1.40
29	uJ	203	PEB	CHA-C1B	3.30	1.48	1.40
29	uL	203	PEB	CHA-C1B	3.30	1.48	1.40
29	GM	202	PEB	CHA-C1B	3.30	1.48	1.40
29	m1	202	PEB	C2A-C1A	-3.30	1.49	1.52
29	mK	202	PEB	C2A-C1A	-3.30	1.49	1.52
29	G8	202	PEB	C2C-C3C	3.30	1.47	1.37
31	M9	1001	CYC	C3D-C2D	3.30	1.47	1.37
29	fF	201	PEB	C2C-C3C	3.30	1.47	1.37
29	fI	201	PEB	C2C-C3C	3.30	1.47	1.37
29	dF	202	PEB	C2C-C3C	3.30	1.47	1.37
29	dI	202	PEB	C2C-C3C	3.30	1.47	1.37
29	A5	203	PEB	C2C-C3C	3.30	1.47	1.37
29	A8	203	PEB	C2C-C3C	3.30	1.47	1.37
29	CA	202	PEB	CHA-C1B	3.30	1.48	1.40
29	CN	202	PEB	CHA-C1B	3.30	1.48	1.40
29	j1	201	PEB	CHA-C1B	3.30	1.48	1.40
29	CJ	202	PEB	CHA-C1B	3.30	1.48	1.40
29	jK	201	PEB	CHA-C1B	3.30	1.48	1.40
29	CL	202	PEB	CHA-C1B	3.30	1.48	1.40
31	FP	1001	CYC	C3D-C2D	3.30	1.47	1.37
29	FG	201	PEB	CHA-C1B	3.30	1.48	1.40
29	FQ	201	PEB	CHA-C1B	3.30	1.48	1.40
29	HC	201	PEB	C1A-NA	-3.30	1.33	1.37
29	KC	203	PEB	C1A-NA	-3.30	1.33	1.37
29	HE	201	PEB	C1A-NA	-3.30	1.33	1.37
29	KE	203	PEB	C1A-NA	-3.30	1.33	1.37
29	a1	203	PEB	C2C-C3C	3.30	1.47	1.37
29	aK	203	PEB	C2C-C3C	3.30	1.47	1.37
31	jP	1001	CYC	C3D-C2D	3.30	1.47	1.37
29	FC	203	PEB	C1A-NA	-3.30	1.33	1.37
29	FE	203	PEB	C1A-NA	-3.30	1.33	1.37
29	sJ	202	PEB	CHA-C1B	3.30	1.48	1.40
29	sL	202	PEB	CHA-C1B	3.30	1.48	1.40
29	c1	203	PEB	C2C-C3C	3.30	1.47	1.37
29	cK	203	PEB	C2C-C3C	3.30	1.47	1.37
29	UF	202	PEB	C2C-C3C	3.30	1.47	1.37
29	UI	202	PEB	C2C-C3C	3.30	1.47	1.37
29	BG	202	PEB	C1A-NA	-3.30	1.33	1.37
29	BQ	202	PEB	C1A-NA	-3.30	1.33	1.37
31	sP	1001	CYC	C3D-C2D	3.30	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LG	202	PEB	C1A-NA	-3.30	1.33	1.37
29	LQ	201	PEB	C1A-NA	-3.30	1.33	1.37
29	T7	203	PEB	C2C-C3C	3.30	1.47	1.37
29	H8	203	PEB	C2C-C3C	3.30	1.47	1.37
29	T9	203	PEB	C2C-C3C	3.30	1.47	1.37
29	F8	202	PEB	C2C-C3C	3.30	1.47	1.37
31	DP	1001	CYC	C3D-C2D	3.30	1.47	1.37
31	IP	1001	CYC	C3D-C2D	3.30	1.47	1.37
29	cJ	202	PEB	CHA-C1B	3.30	1.48	1.40
29	cL	202	PEB	CHA-C1B	3.30	1.48	1.40
29	MA	405	PEB	C1A-NA	-3.30	1.33	1.37
29	Y1	202	PEB	C2C-C3C	3.30	1.47	1.37
29	a7	203	PEB	C2C-C3C	3.30	1.47	1.37
29	a9	203	PEB	C2C-C3C	3.30	1.47	1.37
29	YK	202	PEB	C2C-C3C	3.30	1.47	1.37
29	P7	203	PEB	C2C-C3C	3.30	1.47	1.37
29	P9	203	PEB	C2C-C3C	3.30	1.47	1.37
31	CF	1001	CYC	CHB-C4A	3.30	1.48	1.40
31	CI	1001	CYC	CHB-C4A	3.30	1.48	1.40
29	CB	202	PEB	CHA-C1B	3.30	1.48	1.40
29	CM	202	PEB	CHA-C1B	3.30	1.48	1.40
29	W2	201	PEB	C2A-C1A	-3.30	1.49	1.52
29	GC	202	PEB	C1A-NA	-3.30	1.33	1.37
29	GE	202	PEB	C1A-NA	-3.30	1.33	1.37
29	HG	201	PEB	CHA-C1B	3.30	1.48	1.40
29	HQ	201	PEB	CHA-C1B	3.30	1.48	1.40
29	L8	201	PEB	C2C-C3C	3.30	1.47	1.37
31	nP	1001	CYC	C3D-C2D	3.30	1.47	1.37
29	KG	202	PEB	C1A-NA	-3.30	1.33	1.37
29	KQ	202	PEB	C1A-NA	-3.30	1.33	1.37
29	C5	203	PEB	C2C-C3C	3.30	1.47	1.37
29	C8	203	PEB	C2C-C3C	3.30	1.47	1.37
29	IJ	202	PEB	CHA-C1B	3.30	1.48	1.40
29	IL	202	PEB	CHA-C1B	3.30	1.48	1.40
29	LG	201	PEB	CHA-C1B	3.29	1.48	1.40
29	MQ	402	PEB	CHA-C1B	3.29	1.48	1.40
31	MP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	g7	201	PEB	C2C-C3C	3.29	1.47	1.37
29	g9	201	PEB	C2C-C3C	3.29	1.47	1.37
29	VR	201	PEB	C2C-C3C	3.29	1.47	1.37
29	c7	203	PEB	C2C-C3C	3.29	1.47	1.37
29	c9	203	PEB	C2C-C3C	3.29	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	hP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	EJ	202	PEB	CHA-C1B	3.29	1.48	1.40
29	EL	202	PEB	CHA-C1B	3.29	1.48	1.40
29	M2	201	PEB	C2A-C1A	-3.29	1.49	1.52
29	MR	201	PEB	C2A-C1A	-3.29	1.49	1.52
29	e2	402	PEB	C2C-C3C	3.29	1.47	1.37
29	L5	201	PEB	C2C-C3C	3.29	1.47	1.37
29	H8	201	PEB	C2C-C3C	3.29	1.47	1.37
29	OR	202	PEB	C1A-NA	-3.29	1.33	1.37
29	lF	201	PEB	CHA-C1B	3.29	1.48	1.40
29	lI	201	PEB	CHA-C1B	3.29	1.48	1.40
29	g7	203	PEB	C2C-C3C	3.29	1.47	1.37
29	g9	203	PEB	C2C-C3C	3.29	1.47	1.37
31	SP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	xJ	303	PEB	C1A-NA	-3.29	1.33	1.37
29	G5	203	PEB	C2C-C3C	3.29	1.47	1.37
29	H5	201	PEB	C2C-C3C	3.29	1.47	1.37
29	m7	203	PEB	C2C-C3C	3.29	1.47	1.37
29	m9	203	PEB	C2C-C3C	3.29	1.47	1.37
31	MF	1001	CYC	CHB-C4A	3.29	1.48	1.40
31	MI	1001	CYC	CHB-C4A	3.29	1.48	1.40
29	B8	203	PEB	C2C-C3C	3.29	1.47	1.37
31	oP	1001	CYC	C3D-C2D	3.29	1.47	1.37
31	UP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	M4	201	PEB	C2A-C1A	-3.29	1.49	1.52
29	AJ	202	PEB	CHA-C1B	3.29	1.48	1.40
29	AL	202	PEB	CHA-C1B	3.29	1.48	1.40
29	F5	203	PEB	C2C-C3C	3.29	1.47	1.37
29	F8	203	PEB	C2C-C3C	3.29	1.47	1.37
29	KA	202	PEB	CHA-C1B	3.29	1.48	1.40
29	KN	202	PEB	CHA-C1B	3.29	1.48	1.40
29	TR	201	PEB	C2C-C3C	3.29	1.47	1.37
31	BP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	OF	201	PEB	C2C-C3C	3.29	1.47	1.37
29	OI	201	PEB	C2C-C3C	3.29	1.47	1.37
29	I4	201	PEB	C2A-C1A	-3.29	1.49	1.52
29	G5	202	PEB	C2C-C3C	3.29	1.47	1.37
29	HA	201	PEB	CHA-C1B	3.29	1.48	1.40
29	YJ	202	PEB	CHA-C1B	3.29	1.48	1.40
29	YL	202	PEB	CHA-C1B	3.29	1.48	1.40
29	HN	201	PEB	CHA-C1B	3.29	1.48	1.40
29	G8	203	PEB	C2C-C3C	3.29	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	wP	1001	CYC	C3D-C2D	3.29	1.47	1.37
29	wL	301	PEB	C2C-C3C	3.29	1.47	1.37
29	AB	303	PEB	C1A-NA	-3.29	1.33	1.37
29	iJ	202	PEB	CHA-C1B	3.29	1.48	1.40
29	iL	202	PEB	CHA-C1B	3.29	1.48	1.40
31	L7	1001	CYC	C2C-C1C	-3.29	1.49	1.52
29	V7	203	PEB	C2C-C3C	3.29	1.47	1.37
29	V9	203	PEB	C2C-C3C	3.29	1.47	1.37
31	XP	1001	CYC	C3D-C2D	3.28	1.47	1.37
29	JC	201	PEB	C1A-NA	-3.28	1.33	1.37
29	JE	201	PEB	C1A-NA	-3.28	1.33	1.37
31	L9	1001	CYC	C2C-C1C	-3.28	1.49	1.52
29	B8	202	PEB	C2C-C3C	3.28	1.47	1.37
29	GJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	GL	202	PEB	CHA-C1B	3.28	1.48	1.40
29	KJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	KL	202	PEB	CHA-C1B	3.28	1.48	1.40
29	A5	201	PEB	C2C-C3C	3.28	1.47	1.37
29	WF	201	PEB	C2C-C3C	3.28	1.47	1.37
29	WI	201	PEB	C2C-C3C	3.28	1.47	1.37
31	KI	1001	CYC	CHB-C4A	3.28	1.48	1.40
29	T2	201	PEB	C2C-C3C	3.28	1.47	1.37
29	H5	203	PEB	C2C-C3C	3.28	1.47	1.37
29	KB	202	PEB	CHA-C1B	3.28	1.48	1.40
29	KM	202	PEB	CHA-C1B	3.28	1.48	1.40
29	gJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	gL	202	PEB	CHA-C1B	3.28	1.48	1.40
31	EF	1001	CYC	CHB-C4A	3.28	1.48	1.40
31	KF	1001	CYC	CHB-C4A	3.28	1.48	1.40
31	EI	1001	CYC	CHB-C4A	3.28	1.48	1.40
31	kP	1001	CYC	C3D-C2D	3.28	1.47	1.37
29	GA	202	PEB	CHA-C1B	3.28	1.48	1.40
29	GN	202	PEB	CHA-C1B	3.28	1.48	1.40
29	D3	203	PEB	C2C-C3C	3.28	1.47	1.37
29	DO	203	PEB	C2C-C3C	3.28	1.47	1.37
29	eJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	eL	202	PEB	CHA-C1B	3.28	1.48	1.40
29	i1	203	PEB	C2A-C1A	-3.28	1.49	1.52
29	iK	203	PEB	C2A-C1A	-3.28	1.49	1.52
29	e7	203	PEB	C2C-C3C	3.28	1.47	1.37
29	e9	203	PEB	C2C-C3C	3.28	1.47	1.37
31	OP	1001	CYC	C3D-C2D	3.28	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B5	203	PEB	C2C-C3C	3.28	1.47	1.37
29	LA	201	PEB	CHA-C1B	3.28	1.48	1.40
29	QJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	QL	202	PEB	CHA-C1B	3.28	1.48	1.40
29	LN	201	PEB	CHA-C1B	3.28	1.48	1.40
31	F9	1001	CYC	C2C-C1C	-3.28	1.49	1.52
29	MJ	202	PEB	CHA-C1B	3.28	1.48	1.40
29	ML	202	PEB	CHA-C1B	3.28	1.48	1.40
29	k7	203	PEB	C2C-C3C	3.28	1.47	1.37
29	k9	203	PEB	C2C-C3C	3.28	1.47	1.37
29	A8	201	PEB	C2C-C3C	3.28	1.47	1.37
29	IC	202	PEB	C1A-NA	-3.28	1.33	1.37
29	IE	202	PEB	C1A-NA	-3.28	1.33	1.37
29	kJ	202	PEB	CHA-C1B	3.27	1.48	1.40
29	kL	202	PEB	CHA-C1B	3.27	1.48	1.40
29	DA	201	PEB	CHA-C1B	3.27	1.48	1.40
29	DN	201	PEB	CHA-C1B	3.27	1.48	1.40
29	kB	203	PEB	C2A-C1A	-3.27	1.49	1.52
29	kM	203	PEB	C2A-C1A	-3.27	1.49	1.52
29	H5	202	PEB	C2C-C3C	3.27	1.47	1.37
29	e7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	e9	201	PEB	C2C-C3C	3.27	1.47	1.37
31	uP	1001	CYC	C3D-C2D	3.27	1.47	1.37
29	IA	202	PEB	CHA-C1B	3.27	1.48	1.40
29	IN	202	PEB	CHA-C1B	3.27	1.48	1.40
29	AC	202	PEB	C1A-NA	-3.27	1.33	1.37
29	AE	202	PEB	C1A-NA	-3.27	1.33	1.37
29	T7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	T9	201	PEB	C2C-C3C	3.27	1.47	1.37
29	A9	304	PEB	C1A-NA	-3.27	1.33	1.37
29	JC	202	PEB	C1A-NA	-3.27	1.33	1.37
29	JE	202	PEB	C1A-NA	-3.27	1.33	1.37
29	L8	203	PEB	C2C-C3C	3.27	1.47	1.37
31	1P	1001	CYC	C3D-C2D	3.27	1.47	1.37
29	B3	203	PEB	C2C-C3C	3.27	1.47	1.37
29	wJ	301	PEB	C2C-C3C	3.27	1.47	1.37
29	BO	203	PEB	C2C-C3C	3.27	1.47	1.37
29	FG	202	PEB	C1A-NA	-3.27	1.33	1.37
29	FQ	202	PEB	C1A-NA	-3.27	1.33	1.37
29	V2	201	PEB	C2C-C3C	3.27	1.47	1.37
29	i7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	i9	201	PEB	C2C-C3C	3.27	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I5	201	PEB	C2C-C3C	3.27	1.47	1.37
29	I8	201	PEB	C2C-C3C	3.27	1.47	1.37
31	HP	1001	CYC	C3D-C2D	3.27	1.47	1.37
29	F3	203	PEB	C2C-C3C	3.27	1.47	1.37
29	FO	203	PEB	C2C-C3C	3.27	1.47	1.37
29	V7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	V9	201	PEB	C2C-C3C	3.27	1.47	1.37
29	U2	201	PEB	C2A-C1A	-3.27	1.49	1.52
29	UR	201	PEB	C2A-C1A	-3.27	1.49	1.52
29	LC	202	PEB	C1A-NA	-3.27	1.33	1.37
29	LE	202	PEB	C1A-NA	-3.27	1.33	1.37
29	DG	202	PEB	C1A-NA	-3.27	1.33	1.37
29	DQ	202	PEB	C1A-NA	-3.27	1.33	1.37
29	Y7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	k7	201	PEB	C2C-C3C	3.27	1.47	1.37
29	Y9	201	PEB	C2C-C3C	3.27	1.47	1.37
29	k9	201	PEB	C2C-C3C	3.27	1.47	1.37
29	xJ	301	PEB	C2C-C3C	3.27	1.47	1.37
29	J3	203	PEB	C2C-C3C	3.27	1.47	1.37
29	JO	203	PEB	C2C-C3C	3.27	1.47	1.37
29	OJ	202	PEB	CHA-C1B	3.26	1.48	1.40
29	OL	202	PEB	CHA-C1B	3.26	1.48	1.40
29	EA	202	PEB	CHA-C1B	3.26	1.48	1.40
29	EN	202	PEB	CHA-C1B	3.26	1.48	1.40
29	A7	301	PEB	C2C-C3C	3.26	1.47	1.37
29	K8	201	PEB	C2C-C3C	3.26	1.47	1.37
29	A9	301	PEB	C2C-C3C	3.26	1.47	1.37
29	N2	201	PEB	C2C-C3C	3.26	1.47	1.37
29	IG	202	PEB	C1A-NA	-3.26	1.33	1.37
29	IQ	202	PEB	C1A-NA	-3.26	1.33	1.37
29	NR	201	PEB	C2C-C3C	3.26	1.47	1.37
29	C4	203	PEB	CHA-C1B	3.26	1.48	1.40
29	K5	201	PEB	C2C-C3C	3.26	1.47	1.37
29	c7	201	PEB	C2C-C3C	3.26	1.47	1.37
29	c9	201	PEB	C2C-C3C	3.26	1.47	1.37
29	J5	202	PEB	C2C-C3C	3.26	1.47	1.37
29	P7	201	PEB	C2C-C3C	3.26	1.47	1.37
29	m7	201	PEB	C2C-C3C	3.26	1.47	1.37
29	J8	202	PEB	C2C-C3C	3.26	1.47	1.37
29	P9	201	PEB	C2C-C3C	3.26	1.47	1.37
29	m9	201	PEB	C2C-C3C	3.26	1.47	1.37
29	R7	201	PEB	C2C-C3C	3.26	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	R9	201	PEB	C2C-C3C	3.26	1.47	1.37
29	B5	202	PEB	C2C-C3C	3.26	1.47	1.37
29	CC	202	PEB	C1A-NA	-3.26	1.33	1.37
29	CE	202	PEB	C1A-NA	-3.26	1.33	1.37
29	e1	203	PEB	C2A-C1A	-3.26	1.49	1.52
29	eK	203	PEB	C2A-C1A	-3.26	1.49	1.52
29	G3	202	PEB	CHA-C1B	3.26	1.48	1.40
29	GO	202	PEB	CHA-C1B	3.26	1.48	1.40
29	a7	201	PEB	C2C-C3C	3.26	1.47	1.37
29	a9	201	PEB	C2C-C3C	3.26	1.47	1.37
29	NO	201	PEB	CHA-C1B	3.26	1.48	1.40
29	xL	301	PEB	C2C-C3C	3.26	1.47	1.37
29	LC	203	PEB	C1A-NA	-3.26	1.33	1.37
29	LE	203	PEB	C1A-NA	-3.26	1.33	1.37
29	TF	201	PEB	C1A-NA	-3.25	1.33	1.37
29	AA	202	PEB	CHA-C1B	3.25	1.48	1.40
29	BA	201	PEB	CHA-C1B	3.25	1.48	1.40
29	AN	202	PEB	CHA-C1B	3.25	1.48	1.40
29	BN	201	PEB	CHA-C1B	3.25	1.48	1.40
29	FA	201	PEB	CHA-C1B	3.25	1.48	1.40
29	FN	201	PEB	CHA-C1B	3.25	1.48	1.40
29	e2	402	PEB	C2A-C1A	-3.25	1.49	1.52
29	C5	201	PEB	C2C-C3C	3.25	1.47	1.37
29	C8	201	PEB	C2C-C3C	3.25	1.47	1.37
29	AC	203	PEB	C1A-NA	-3.25	1.33	1.37
29	AE	203	PEB	C1A-NA	-3.25	1.33	1.37
29	R2	201	PEB	C2C-C3C	3.25	1.47	1.37
29	RR	201	PEB	C2C-C3C	3.25	1.47	1.37
29	H3	203	PEB	C2C-C3C	3.25	1.47	1.37
29	HO	203	PEB	C2C-C3C	3.25	1.47	1.37
29	FB	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	HB	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	FM	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	HM	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	ID	201	PEB	C2A-C1A	-3.25	1.49	1.52
29	BC	202	PEB	C1A-NA	-3.25	1.33	1.37
29	BE	202	PEB	C1A-NA	-3.25	1.33	1.37
29	TB	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	VB	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	TM	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	VM	203	PEB	C2A-C1A	-3.25	1.49	1.52
29	SF	202	PEB	C1A-NA	-3.25	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	SI	202	PEB	C1A-NA	-3.25	1.33	1.37
29	IF	202	PEB	C1A-NA	-3.24	1.33	1.37
29	II	202	PEB	C1A-NA	-3.24	1.33	1.37
29	E4	203	PEB	CHA-C1B	3.24	1.48	1.40
29	L3	202	PEB	C2C-C3C	3.24	1.47	1.37
29	LO	202	PEB	C2C-C3C	3.24	1.47	1.37
29	KG	201	PEB	CHA-C1B	3.24	1.48	1.40
29	KQ	201	PEB	CHA-C1B	3.24	1.48	1.40
29	J5	202	PEB	CHA-C1B	3.24	1.48	1.40
29	J8	202	PEB	CHA-C1B	3.24	1.48	1.40
29	bF	202	PEB	C1A-NA	-3.24	1.33	1.37
29	bI	202	PEB	C1A-NA	-3.24	1.33	1.37
29	S2	201	PEB	C1A-NA	-3.24	1.33	1.37
29	RR	201	PEB	C2A-C1A	-3.24	1.49	1.52
29	M3	201	PEB	CHA-C1B	3.24	1.48	1.40
29	MO	201	PEB	CHA-C1B	3.24	1.48	1.40
31	uP	1001	CYC	C1B-C2B	3.24	1.50	1.45
29	gF	201	PEB	C2C-C3C	3.24	1.47	1.37
29	gI	201	PEB	C2C-C3C	3.24	1.47	1.37
29	K3	202	PEB	CHA-C1B	3.24	1.48	1.40
29	KO	202	PEB	CHA-C1B	3.24	1.48	1.40
29	FC	202	PEB	C1A-NA	-3.24	1.33	1.37
29	FE	202	PEB	C1A-NA	-3.24	1.33	1.37
29	CD	201	PEB	C2A-C1A	-3.24	1.49	1.52
29	HC	202	PEB	C1A-NA	-3.24	1.33	1.37
29	HE	202	PEB	C1A-NA	-3.24	1.33	1.37
29	SR	201	PEB	C1A-NA	-3.24	1.33	1.37
30	xJ	305	PUB	C3B-C2B	3.23	1.47	1.37
29	LF	1002	PEB	C2A-C1A	-3.23	1.49	1.52
29	LI	1002	PEB	C2A-C1A	-3.23	1.49	1.52
29	cF	201	PEB	C2C-C3C	3.23	1.47	1.37
29	cI	201	PEB	C2C-C3C	3.23	1.47	1.37
31	UP	1001	CYC	C1B-C2B	3.23	1.50	1.45
29	K5	202	PEB	C2C-C3C	3.23	1.47	1.37
29	K8	202	PEB	C2C-C3C	3.23	1.47	1.37
29	M3	203	PEB	C2C-C3C	3.23	1.47	1.37
29	MO	203	PEB	C2C-C3C	3.23	1.47	1.37
29	QF	202	PEB	C1A-NA	-3.23	1.33	1.37
29	QI	202	PEB	C1A-NA	-3.23	1.33	1.37
30	wL	305	PUB	C3B-C2B	3.23	1.47	1.37
29	ED	202	PEB	CHA-C1B	3.23	1.48	1.40
29	ID	203	PEB	CHA-C1B	3.23	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LF	1002	PEB	C2C-C3C	3.23	1.47	1.37
29	LI	1002	PEB	C2C-C3C	3.23	1.47	1.37
29	NF	1002	PEB	C2C-C3C	3.23	1.47	1.37
29	NI	1002	PEB	C2C-C3C	3.23	1.47	1.37
29	eB	202	PEB	C2A-C1A	-3.23	1.49	1.52
29	gF	201	PEB	C2A-C1A	-3.23	1.49	1.52
29	kF	201	PEB	C2A-C1A	-3.23	1.49	1.52
29	gI	201	PEB	C2A-C1A	-3.23	1.49	1.52
29	kI	201	PEB	C2A-C1A	-3.23	1.49	1.52
29	eM	202	PEB	C2A-C1A	-3.23	1.49	1.52
31	YP	1000	CYC	C2C-C1C	-3.23	1.49	1.52
31	1P	1002	CYC	C2C-C1C	-3.23	1.49	1.52
29	PF	201	PEB	C2C-C3C	3.23	1.47	1.37
29	PI	201	PEB	C2C-C3C	3.23	1.47	1.37
29	PF	201	PEB	C2A-C1A	-3.23	1.49	1.52
29	PI	201	PEB	C2A-C1A	-3.23	1.49	1.52
31	HP	1001	CYC	C1B-C2B	3.23	1.50	1.45
29	I3	202	PEB	CHA-C1B	3.22	1.48	1.40
29	AB	301	PEB	CHA-C1B	3.22	1.48	1.40
29	IO	202	PEB	CHA-C1B	3.22	1.48	1.40
29	MD	203	PEB	CHA-C1B	3.22	1.48	1.40
29	YF	201	PEB	C2C-C3C	3.22	1.47	1.37
29	YI	201	PEB	C2C-C3C	3.22	1.47	1.37
29	EC	202	PEB	C1A-NA	-3.22	1.33	1.37
29	EE	202	PEB	C1A-NA	-3.22	1.33	1.37
29	FF	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	FI	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	HF	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	HI	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	eF	201	PEB	C2C-C3C	3.22	1.47	1.37
29	eI	201	PEB	C2C-C3C	3.22	1.47	1.37
29	NO	203	PEB	C2C-C3C	3.22	1.47	1.37
29	A3	202	PEB	CHA-C1B	3.22	1.48	1.40
29	AG	201	PEB	CHA-C1B	3.22	1.48	1.40
29	AO	202	PEB	CHA-C1B	3.22	1.48	1.40
29	AQ	201	PEB	CHA-C1B	3.22	1.48	1.40
29	GG	201	PEB	CHA-C1B	3.22	1.48	1.40
29	GQ	201	PEB	CHA-C1B	3.22	1.48	1.40
29	J5	201	PEB	C2C-C3C	3.22	1.47	1.37
29	J8	201	PEB	C2C-C3C	3.22	1.47	1.37
29	C5	202	PEB	C2C-C3C	3.22	1.47	1.37
29	C8	202	PEB	C2C-C3C	3.22	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JA	201	PEB	CHA-C1B	3.22	1.48	1.40
29	JN	201	PEB	CHA-C1B	3.22	1.48	1.40
29	TI	201	PEB	C2C-C3C	3.22	1.47	1.37
29	EG	201	PEB	CHA-C1B	3.22	1.48	1.40
29	EQ	201	PEB	CHA-C1B	3.22	1.48	1.40
29	aF	201	PEB	C2C-C3C	3.22	1.47	1.37
29	aI	201	PEB	C2C-C3C	3.22	1.47	1.37
31	hP	1001	CYC	C1B-C2B	3.22	1.50	1.45
29	R2	201	PEB	C2A-C1A	-3.22	1.49	1.52
29	HD	202	PEB	C2A-C1A	-3.22	1.49	1.52
29	HF	1002	PEB	C2A-C1A	-3.22	1.49	1.52
29	HI	1002	PEB	C2A-C1A	-3.22	1.49	1.52
29	E3	202	PEB	CHA-C1B	3.22	1.47	1.40
29	N3	201	PEB	CHA-C1B	3.22	1.47	1.40
29	EO	202	PEB	CHA-C1B	3.22	1.47	1.40
29	JF	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	JI	1002	PEB	C2C-C3C	3.22	1.47	1.37
29	VF	201	PEB	C2C-C3C	3.21	1.47	1.37
29	VI	201	PEB	C2C-C3C	3.21	1.47	1.37
29	CD	203	PEB	CHA-C1B	3.21	1.47	1.40
29	mF	201	PEB	C2C-C3C	3.21	1.47	1.37
29	mI	201	PEB	C2C-C3C	3.21	1.47	1.37
30	xL	305	PUB	C3B-C2B	3.21	1.47	1.37
29	OR	201	PEB	CHA-C1B	3.21	1.47	1.40
29	TI	201	PEB	C2A-C1A	-3.21	1.49	1.52
31	IP	1001	CYC	C1B-C2B	3.21	1.50	1.45
29	OF	202	PEB	C1A-NA	-3.21	1.33	1.37
29	OI	202	PEB	C1A-NA	-3.21	1.33	1.37
31	wP	1001	CYC	C1B-C2B	3.21	1.50	1.45
29	A5	202	PEB	C2C-C3C	3.21	1.47	1.37
29	DF	1002	PEB	C2C-C3C	3.21	1.47	1.37
29	DI	1002	PEB	C2C-C3C	3.21	1.47	1.37
29	XR	201	PEB	C2A-C1A	-3.21	1.49	1.52
31	FP	1001	CYC	C1B-C2B	3.21	1.50	1.45
31	XP	1001	CYC	C1B-C2B	3.21	1.50	1.45
29	Q2	201	PEB	CHA-C1B	3.21	1.47	1.40
29	QR	201	PEB	CHA-C1B	3.21	1.47	1.40
29	ZF	202	PEB	C1A-NA	-3.21	1.33	1.37
29	ZI	202	PEB	C1A-NA	-3.21	1.33	1.37
29	D4	202	PEB	C2A-C1A	-3.21	1.49	1.52
29	PB	202	PEB	C2A-C1A	-3.21	1.49	1.52
29	PM	202	PEB	C2A-C1A	-3.21	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	MN	402	PUB	C3B-C2B	3.21	1.47	1.37
29	C3	202	PEB	CHA-C1B	3.21	1.47	1.40
29	CO	202	PEB	CHA-C1B	3.21	1.47	1.40
29	kF	201	PEB	C2C-C3C	3.20	1.47	1.37
29	kI	201	PEB	C2C-C3C	3.20	1.47	1.37
29	iF	201	PEB	C2C-C3C	3.20	1.47	1.37
29	iI	201	PEB	C2C-C3C	3.20	1.47	1.37
29	l7	201	PEB	C2C-C3C	3.20	1.47	1.37
29	l9	201	PEB	C2C-C3C	3.20	1.47	1.37
29	dF	203	PEB	C1A-NA	-3.20	1.33	1.37
29	dI	203	PEB	C1A-NA	-3.20	1.33	1.37
29	RF	201	PEB	C2C-C3C	3.20	1.47	1.37
29	RI	201	PEB	C2C-C3C	3.20	1.47	1.37
31	fP	1001	CYC	C1B-C2B	3.20	1.50	1.45
29	G4	201	PEB	C2A-C1A	-3.20	1.49	1.52
29	GD	201	PEB	C2A-C1A	-3.20	1.49	1.52
31	jP	1001	CYC	C1B-C2B	3.20	1.50	1.45
29	RB	203	PEB	C2A-C1A	-3.20	1.49	1.52
29	MD	201	PEB	C2A-C1A	-3.20	1.49	1.52
29	RM	203	PEB	C2A-C1A	-3.20	1.49	1.52
31	OP	1001	CYC	C1B-C2B	3.20	1.50	1.45
29	I5	202	PEB	C2C-C3C	3.20	1.47	1.37
29	I8	202	PEB	C2C-C3C	3.20	1.47	1.37
29	A7	301	PEB	CHA-C1B	3.20	1.47	1.40
29	A9	301	PEB	CHA-C1B	3.20	1.47	1.40
29	jF	202	PEB	C1A-NA	-3.20	1.33	1.37
29	jI	202	PEB	C1A-NA	-3.20	1.33	1.37
29	F7	1002	PEB	C2C-C3C	3.20	1.47	1.37
29	LB	203	PEB	C2A-C1A	-3.20	1.49	1.52
29	LM	203	PEB	C2A-C1A	-3.20	1.49	1.52
29	AC	203	PEB	C2C-C3C	3.20	1.47	1.37
29	AE	203	PEB	C2C-C3C	3.20	1.47	1.37
29	FF	1002	PEB	C2A-C1A	-3.20	1.49	1.52
29	FI	1002	PEB	C2A-C1A	-3.20	1.49	1.52
30	wJ	305	PUB	C3B-C2B	3.20	1.47	1.37
30	MA	402	PUB	C3B-C2B	3.19	1.47	1.37
29	N3	203	PEB	C2C-C3C	3.19	1.47	1.37
31	nP	1001	CYC	C1B-C2B	3.19	1.50	1.45
29	CG	201	PEB	CHA-C1B	3.19	1.47	1.40
29	CQ	201	PEB	CHA-C1B	3.19	1.47	1.40
29	h7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	h9	201	PEB	C2C-C3C	3.19	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AM	301	PEB	CHA-C1B	3.19	1.47	1.40
29	O7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	O9	201	PEB	C2C-C3C	3.19	1.47	1.37
29	C4	201	PEB	C2A-C1A	-3.19	1.49	1.52
29	cB	203	PEB	C2A-C1A	-3.19	1.49	1.52
29	cM	203	PEB	C2A-C1A	-3.19	1.49	1.52
29	G4	203	PEB	CHA-C1B	3.19	1.47	1.40
29	GD	203	PEB	CHA-C1B	3.19	1.47	1.40
29	H7	1002	PEB	C2C-C3C	3.19	1.47	1.37
29	Z7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	H9	1002	PEB	C2C-C3C	3.19	1.47	1.37
29	Z9	201	PEB	C2C-C3C	3.19	1.47	1.37
29	U7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	U9	201	PEB	C2C-C3C	3.19	1.47	1.37
31	DP	1001	CYC	C1B-C2B	3.19	1.50	1.45
29	L7	1002	PEB	C2C-C3C	3.19	1.47	1.37
31	QP	1001	CYC	C1B-C2B	3.19	1.50	1.45
29	U2	201	PEB	CHA-C1B	3.19	1.47	1.40
29	MQ	406	PEB	CHA-C1B	3.19	1.47	1.40
29	M2	201	PEB	CHA-C1B	3.19	1.47	1.40
29	MR	201	PEB	CHA-C1B	3.19	1.47	1.40
29	KD	203	PEB	CHA-C1B	3.19	1.47	1.40
29	d7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	d9	201	PEB	C2C-C3C	3.19	1.47	1.37
29	BC	202	PEB	C2C-C3C	3.19	1.47	1.37
29	BE	202	PEB	C2C-C3C	3.19	1.47	1.37
29	Q7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	Q9	201	PEB	C2C-C3C	3.19	1.47	1.37
31	oP	1001	CYC	C1B-C2B	3.19	1.50	1.45
29	W7	201	PEB	C2C-C3C	3.19	1.47	1.37
29	W9	201	PEB	C2C-C3C	3.19	1.47	1.37
29	LC	202	PEB	C2C-C3C	3.19	1.47	1.37
29	LE	202	PEB	C2C-C3C	3.19	1.47	1.37
29	AF	301	PEB	C2C-C3C	3.18	1.47	1.37
29	AI	301	PEB	C2C-C3C	3.18	1.47	1.37
29	D7	1002	PEB	C2C-C3C	3.18	1.47	1.37
29	A8	202	PEB	C2C-C3C	3.18	1.47	1.37
29	D9	1002	PEB	C2C-C3C	3.18	1.47	1.37
29	yJ	301	PEB	C2C-C3C	3.18	1.47	1.37
29	yL	301	PEB	C2C-C3C	3.18	1.47	1.37
29	RF	201	PEB	C2A-C1A	-3.18	1.49	1.52
29	RI	201	PEB	C2A-C1A	-3.18	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	N7	1002	PEB	C2C-C3C	3.18	1.47	1.37
29	N9	1002	PEB	C2C-C3C	3.18	1.47	1.37
29	mF	201	PEB	C2A-C1A	-3.18	1.49	1.52
29	mI	201	PEB	C2A-C1A	-3.18	1.49	1.52
29	O2	201	PEB	CHA-C1B	3.18	1.47	1.40
29	IG	201	PEB	CHA-C1B	3.18	1.47	1.40
29	IQ	201	PEB	CHA-C1B	3.18	1.47	1.40
29	f7	201	PEB	C2C-C3C	3.18	1.47	1.37
29	f9	201	PEB	C2C-C3C	3.18	1.47	1.37
31	BP	1001	CYC	C1B-C2B	3.18	1.50	1.45
29	MG	404	PEB	CHA-C1B	3.18	1.47	1.40
29	iB	203	PEB	C2A-C1A	-3.18	1.49	1.52
29	iM	203	PEB	C2A-C1A	-3.18	1.49	1.52
29	b7	201	PEB	C2C-C3C	3.18	1.47	1.37
29	b9	201	PEB	C2C-C3C	3.18	1.47	1.37
29	UR	201	PEB	CHA-C1B	3.18	1.47	1.40
29	F9	1002	PEB	C2C-C3C	3.17	1.47	1.37
29	WR	201	PEB	CHA-C1B	3.17	1.47	1.40
31	qP	1001	CYC	C1B-C2B	3.17	1.50	1.45
31	lP	1001	CYC	C1B-C2B	3.17	1.50	1.45
29	dJ	201	PEB	C2C-C3C	3.17	1.47	1.37
29	dL	201	PEB	C2C-C3C	3.17	1.47	1.37
29	T2	201	PEB	C2A-C1A	-3.17	1.49	1.52
29	NB	202	PEB	C2A-C1A	-3.17	1.49	1.52
29	NM	202	PEB	C2A-C1A	-3.17	1.49	1.52
29	W2	201	PEB	CHA-C1B	3.17	1.47	1.40
29	B4	202	PEB	C2C-C3C	3.17	1.47	1.37
29	G4	203	PEB	C2C-C3C	3.17	1.47	1.37
29	pJ	201	PEB	C2C-C3C	3.17	1.47	1.37
29	pL	201	PEB	C2C-C3C	3.17	1.47	1.37
29	j7	201	PEB	C2C-C3C	3.17	1.47	1.37
29	j9	201	PEB	C2C-C3C	3.17	1.47	1.37
29	J7	1002	PEB	C2C-C3C	3.17	1.47	1.37
29	KC	201	PEB	C2C-C3C	3.17	1.47	1.37
29	ID	203	PEB	C2C-C3C	3.17	1.47	1.37
29	KE	201	PEB	C2C-C3C	3.17	1.47	1.37
29	PJ	201	PEB	C2C-C3C	3.17	1.47	1.37
29	PL	201	PEB	C2C-C3C	3.17	1.47	1.37
29	HC	202	PEB	C2C-C3C	3.17	1.47	1.37
29	HE	202	PEB	C2C-C3C	3.17	1.47	1.37
29	ZB	203	PEB	C2A-C1A	-3.17	1.49	1.52
29	gB	203	PEB	C2A-C1A	-3.17	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	ZM	203	PEB	C2A-C1A	-3.17	1.49	1.52
29	gM	203	PEB	C2A-C1A	-3.17	1.49	1.52
29	J9	1002	PEB	C2C-C3C	3.17	1.47	1.37
29	K4	203	PEB	CHA-C1B	3.17	1.47	1.40
31	SP	1001	CYC	C1B-C2B	3.17	1.50	1.45
29	aF	201	PEB	C2A-C1A	-3.17	1.49	1.52
29	aI	201	PEB	C2A-C1A	-3.17	1.49	1.52
29	fJ	201	PEB	C2C-C3C	3.17	1.47	1.37
29	fL	201	PEB	C2C-C3C	3.17	1.47	1.37
29	L9	1002	PEB	C2C-C3C	3.17	1.47	1.37
29	BJ	201	PEB	C2C-C3C	3.17	1.47	1.37
29	BL	201	PEB	C2C-C3C	3.17	1.47	1.37
29	FC	202	PEB	C2C-C3C	3.16	1.47	1.37
29	FE	202	PEB	C2C-C3C	3.16	1.47	1.37
29	JB	203	PEB	C2A-C1A	-3.16	1.49	1.52
29	dD	401	PEB	C2A-C1A	-3.16	1.49	1.52
29	JM	203	PEB	C2A-C1A	-3.16	1.49	1.52
29	J4	202	PEB	C2C-C3C	3.16	1.47	1.37
29	E4	203	PEB	C2C-C3C	3.16	1.47	1.37
29	JB	202	PEB	CHA-C1B	3.16	1.47	1.40
29	JM	202	PEB	CHA-C1B	3.16	1.47	1.40
29	WF	202	PEB	C1A-NA	-3.16	1.33	1.37
29	WI	202	PEB	C1A-NA	-3.16	1.33	1.37
29	CD	203	PEB	C2C-C3C	3.16	1.47	1.37
29	FB	202	PEB	CHA-C1B	3.16	1.47	1.40
29	FM	202	PEB	CHA-C1B	3.16	1.47	1.40
29	B8	203	PEB	C2A-C1A	-3.16	1.49	1.52
29	DG	203	PEB	C2C-C3C	3.16	1.47	1.37
29	HD	202	PEB	C2C-C3C	3.16	1.47	1.37
29	ZB	202	PEB	CHA-C1B	3.16	1.47	1.40
29	ZM	202	PEB	CHA-C1B	3.16	1.47	1.40
31	MP	1001	CYC	C1B-C2B	3.16	1.50	1.45
29	TB	202	PEB	CHA-C1B	3.16	1.47	1.40
29	VB	202	PEB	CHA-C1B	3.16	1.47	1.40
29	TM	202	PEB	CHA-C1B	3.16	1.47	1.40
29	VM	202	PEB	CHA-C1B	3.16	1.47	1.40
29	E4	201	PEB	C2A-C1A	-3.16	1.49	1.52
29	cF	201	PEB	C2A-C1A	-3.16	1.49	1.52
29	cI	201	PEB	C2A-C1A	-3.16	1.49	1.52
29	S7	201	PEB	C2C-C3C	3.16	1.47	1.37
29	S9	201	PEB	C2C-C3C	3.16	1.47	1.37
29	BB	301	PEB	C2C-C3C	3.16	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BM	301	PEB	C2C-C3C	3.16	1.47	1.37
29	M2	201	PEB	C2C-C3C	3.15	1.47	1.37
29	rJ	201	PEB	C2C-C3C	3.15	1.47	1.37
29	rL	201	PEB	C2C-C3C	3.15	1.47	1.37
29	MR	201	PEB	C2C-C3C	3.15	1.47	1.37
29	DB	202	PEB	CHA-C1B	3.15	1.47	1.40
29	DM	202	PEB	CHA-C1B	3.15	1.47	1.40
29	JJ	201	PEB	C2C-C3C	3.15	1.47	1.37
29	JL	201	PEB	C2C-C3C	3.15	1.47	1.37
31	sP	1001	CYC	C1B-C2B	3.15	1.50	1.45
29	M4	203	PEB	C1A-NA	-3.15	1.33	1.37
29	VF	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	VI	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	ED	202	PEB	C2C-C3C	3.15	1.47	1.37
29	XJ	201	PEB	C2C-C3C	3.15	1.47	1.37
29	XL	201	PEB	C2C-C3C	3.15	1.47	1.37
30	A7	303	PUB	C3B-C2B	3.15	1.47	1.37
30	A9	303	PUB	C3B-C2B	3.15	1.47	1.37
29	N2	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	L4	202	PEB	C2A-C1A	-3.15	1.49	1.52
29	LD	202	PEB	C2A-C1A	-3.15	1.49	1.52
29	NR	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	YB	201	PEB	CHA-C1B	3.15	1.47	1.40
29	YM	201	PEB	CHA-C1B	3.15	1.47	1.40
29	D4	202	PEB	C2C-C3C	3.15	1.47	1.37
29	C4	203	PEB	C2C-C3C	3.15	1.47	1.37
29	JD	202	PEB	C2C-C3C	3.15	1.47	1.37
31	xP	1001	CYC	C1D-CHD	3.15	1.53	1.41
31	kP	1001	CYC	C1B-C2B	3.15	1.50	1.45
29	FD	202	PEB	C2A-C1A	-3.15	1.49	1.52
29	JG	203	PEB	C2C-C3C	3.15	1.47	1.37
29	nJ	201	PEB	C2C-C3C	3.15	1.47	1.37
29	nL	201	PEB	C2C-C3C	3.15	1.47	1.37
29	HB	202	PEB	CHA-C1B	3.15	1.47	1.40
29	HM	202	PEB	CHA-C1B	3.15	1.47	1.40
29	DB	203	PEB	C2A-C1A	-3.15	1.49	1.52
29	iF	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	iI	201	PEB	C2A-C1A	-3.15	1.49	1.52
29	DM	203	PEB	C2A-C1A	-3.15	1.49	1.52
29	L4	202	PEB	C2C-C3C	3.15	1.47	1.37
29	GD	203	PEB	C2C-C3C	3.15	1.47	1.37
29	JQ	203	PEB	C2C-C3C	3.15	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BD	202	PEB	C2C-C3C	3.15	1.47	1.37
29	NO	202	PEB	C1A-NA	-3.15	1.33	1.37
29	mB	203	PEB	C2A-C1A	-3.14	1.49	1.52
29	mM	203	PEB	C2A-C1A	-3.14	1.49	1.52
29	OF	203	PEB	CHA-C1B	3.14	1.47	1.40
29	OI	203	PEB	CHA-C1B	3.14	1.47	1.40
29	W2	201	PEB	C2C-C3C	3.14	1.47	1.37
29	RB	202	PEB	CHA-C1B	3.14	1.47	1.40
29	RM	202	PEB	CHA-C1B	3.14	1.47	1.40
30	BB	302	PUB	C3B-C2B	3.14	1.47	1.37
30	BM	302	PUB	C3B-C2B	3.14	1.47	1.37
29	NF	1002	PEB	C2A-C1A	-3.14	1.49	1.52
29	YF	201	PEB	C2A-C1A	-3.14	1.49	1.52
29	NI	1002	PEB	C2A-C1A	-3.14	1.49	1.52
29	YI	201	PEB	C2A-C1A	-3.14	1.49	1.52
29	ZJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	ZL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	tJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	tL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	M3	202	PEB	C1A-NA	-3.14	1.33	1.37
29	MO	202	PEB	C1A-NA	-3.14	1.33	1.37
29	H4	202	PEB	C2A-C1A	-3.14	1.49	1.52
29	IB	201	PEB	C2A-C1A	-3.14	1.49	1.52
29	IM	201	PEB	C2A-C1A	-3.14	1.49	1.52
29	LJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	RJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	LL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	RL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	LD	202	PEB	C2C-C3C	3.14	1.47	1.37
29	jJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	jL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	FJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	FL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	KB	203	PEB	CHA-C1B	3.14	1.47	1.40
29	KM	203	PEB	CHA-C1B	3.14	1.47	1.40
29	KD	203	PEB	C2C-C3C	3.14	1.47	1.37
29	HG	203	PEB	C2C-C3C	3.14	1.47	1.37
29	kB	202	PEB	CHA-C1B	3.14	1.47	1.40
29	kM	202	PEB	CHA-C1B	3.14	1.47	1.40
29	F4	202	PEB	C2C-C3C	3.14	1.47	1.37
29	aB	203	PEB	CHA-C1B	3.14	1.47	1.40
29	cB	202	PEB	CHA-C1B	3.14	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	aM	203	PEB	CHA-C1B	3.14	1.47	1.40
29	cM	202	PEB	CHA-C1B	3.14	1.47	1.40
29	DJ	201	PEB	C2C-C3C	3.14	1.47	1.37
29	DL	201	PEB	C2C-C3C	3.14	1.47	1.37
29	fF	202	PEB	C1A-NA	-3.14	1.33	1.37
29	fI	202	PEB	C1A-NA	-3.14	1.33	1.37
29	NJ	201	PEB	C2C-C3C	3.13	1.47	1.37
29	TJ	201	PEB	C2C-C3C	3.13	1.47	1.37
29	NL	201	PEB	C2C-C3C	3.13	1.47	1.37
29	TL	201	PEB	C2C-C3C	3.13	1.47	1.37
29	UF	203	PEB	C1A-NA	-3.13	1.33	1.37
29	hF	202	PEB	C1A-NA	-3.13	1.33	1.37
29	UI	203	PEB	C1A-NA	-3.13	1.33	1.37
29	hI	202	PEB	C1A-NA	-3.13	1.33	1.37
29	H4	202	PEB	C2C-C3C	3.13	1.47	1.37
29	bJ	201	PEB	C2C-C3C	3.13	1.47	1.37
29	bL	201	PEB	C2C-C3C	3.13	1.47	1.37
29	V2	201	PEB	C2A-C1A	-3.13	1.49	1.52
29	DD	202	PEB	C2C-C3C	3.13	1.47	1.37
29	DQ	203	PEB	C2C-C3C	3.13	1.47	1.37
29	MD	203	PEB	C2C-C3C	3.13	1.46	1.37
29	vJ	201	PEB	C2C-C3C	3.13	1.46	1.37
29	vL	201	PEB	C2C-C3C	3.13	1.46	1.37
29	FQ	203	PEB	C2C-C3C	3.13	1.46	1.37
29	iB	202	PEB	CHA-C1B	3.13	1.47	1.40
29	iM	202	PEB	CHA-C1B	3.13	1.47	1.40
29	FD	202	PEB	C2C-C3C	3.13	1.46	1.37
29	mB	202	PEB	CHA-C1B	3.13	1.47	1.40
29	mM	202	PEB	CHA-C1B	3.13	1.47	1.40
29	FG	203	PEB	C2C-C3C	3.13	1.46	1.37
29	N3	202	PEB	C1A-NA	-3.13	1.33	1.37
29	OB	201	PEB	C2A-C1A	-3.13	1.49	1.52
29	OM	201	PEB	C2A-C1A	-3.13	1.49	1.52
29	BG	203	PEB	C2C-C3C	3.13	1.46	1.37
31	VP	1001	CYC	C1D-CHD	3.13	1.53	1.41
29	LG	203	PEB	C2C-C3C	3.13	1.46	1.37
29	VJ	201	PEB	C2C-C3C	3.13	1.46	1.37
29	VL	201	PEB	C2C-C3C	3.13	1.46	1.37
29	BQ	203	PEB	C2C-C3C	3.12	1.46	1.37
29	MB	201	PEB	C2A-C1A	-3.12	1.49	1.52
29	MM	201	PEB	C2A-C1A	-3.12	1.49	1.52
29	HQ	203	PEB	C2C-C3C	3.12	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	QR	201	PEB	C2C-C3C	3.12	1.46	1.37
29	VF	202	PEB	CHA-C1B	3.12	1.47	1.40
29	VI	202	PEB	CHA-C1B	3.12	1.47	1.40
29	Q2	201	PEB	C2C-C3C	3.12	1.46	1.37
29	UR	201	PEB	C2C-C3C	3.12	1.46	1.37
29	LB	202	PEB	CHA-C1B	3.12	1.47	1.40
29	LM	202	PEB	CHA-C1B	3.12	1.47	1.40
29	QB	202	PEB	CHA-C1B	3.12	1.47	1.40
29	QM	202	PEB	CHA-C1B	3.12	1.47	1.40
29	IJ	201	PEB	C2C-C3C	3.12	1.46	1.37
29	IL	201	PEB	C2C-C3C	3.12	1.46	1.37
29	hJ	201	PEB	C2C-C3C	3.12	1.46	1.37
29	hL	201	PEB	C2C-C3C	3.12	1.46	1.37
29	dF	201	PEB	CHA-C1B	3.12	1.47	1.40
29	dI	201	PEB	CHA-C1B	3.12	1.47	1.40
29	O2	201	PEB	C2C-C3C	3.12	1.46	1.37
29	OR	201	PEB	C2C-C3C	3.12	1.46	1.37
29	PF	203	PEB	C2A-C1A	-3.12	1.49	1.52
29	PI	203	PEB	C2A-C1A	-3.12	1.49	1.52
29	YF	202	PEB	CHA-C1B	3.12	1.47	1.40
29	YI	202	PEB	CHA-C1B	3.12	1.47	1.40
29	gB	202	PEB	CHA-C1B	3.11	1.47	1.40
29	gM	202	PEB	CHA-C1B	3.11	1.47	1.40
29	WR	201	PEB	C2C-C3C	3.11	1.46	1.37
29	aF	202	PEB	CHA-C1B	3.11	1.47	1.40
29	aI	202	PEB	CHA-C1B	3.11	1.47	1.40
29	gF	203	PEB	C2A-C1A	-3.11	1.49	1.52
29	gI	203	PEB	C2A-C1A	-3.11	1.49	1.52
29	DF	1002	PEB	C2A-C1A	-3.11	1.49	1.52
29	DI	1002	PEB	C2A-C1A	-3.11	1.49	1.52
29	U2	201	PEB	C2C-C3C	3.11	1.46	1.37
29	PF	202	PEB	CHA-C1B	3.11	1.47	1.40
29	PI	202	PEB	CHA-C1B	3.11	1.47	1.40
29	b1	201	PEB	C2C-C3C	3.11	1.46	1.37
29	bK	201	PEB	C2C-C3C	3.11	1.46	1.37
29	YF	203	PEB	C2A-C1A	-3.11	1.49	1.52
29	YI	203	PEB	C2A-C1A	-3.11	1.49	1.52
29	KC	201	PEB	CHA-C1B	3.11	1.47	1.40
29	KE	201	PEB	CHA-C1B	3.11	1.47	1.40
29	hB	201	PEB	C2A-C1A	-3.11	1.49	1.52
29	hM	201	PEB	C2A-C1A	-3.11	1.49	1.52
29	HC	202	PEB	CHA-C1B	3.11	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HE	202	PEB	CHA-C1B	3.11	1.47	1.40
29	CB	201	PEB	C2A-C1A	-3.11	1.49	1.52
29	CM	201	PEB	C2A-C1A	-3.11	1.49	1.52
30	yJ	302	PUB	C3B-C2B	3.11	1.46	1.37
30	yL	302	PUB	C3B-C2B	3.11	1.46	1.37
29	K4	203	PEB	C2C-C3C	3.11	1.46	1.37
29	SB	201	PEB	C2A-C1A	-3.11	1.49	1.52
29	SM	201	PEB	C2A-C1A	-3.11	1.49	1.52
29	DD	202	PEB	C2A-C1A	-3.10	1.49	1.52
31	xP	1001	CYC	O1A-CGA	3.10	1.32	1.22
29	fI	201	PEB	C2C-C3C	3.10	1.46	1.37
29	fK	201	PEB	C2C-C3C	3.10	1.46	1.37
29	J4	202	PEB	C2A-C1A	-3.10	1.49	1.52
29	KB	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	KM	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	K4	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	KD	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	UB	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	eF	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	eI	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	UM	201	PEB	C2A-C1A	-3.10	1.49	1.52
29	kF	202	PEB	CHA-C1B	3.10	1.47	1.40
29	kI	202	PEB	CHA-C1B	3.10	1.47	1.40
29	B4	202	PEB	C2A-C1A	-3.09	1.49	1.52
29	BD	202	PEB	C2A-C1A	-3.09	1.49	1.52
29	B5	203	PEB	C2A-C1A	-3.09	1.49	1.52
29	ZB	201	PEB	C2A-C1A	-3.09	1.49	1.52
29	ZM	201	PEB	C2A-C1A	-3.09	1.49	1.52
29	iF	202	PEB	CHA-C1B	3.09	1.47	1.40
29	iI	202	PEB	CHA-C1B	3.09	1.47	1.40
29	Z1	202	PEB	C2C-C3C	3.09	1.46	1.37
29	ZK	202	PEB	C2C-C3C	3.09	1.46	1.37
29	UF	201	PEB	CHA-C1B	3.09	1.47	1.40
29	UI	201	PEB	CHA-C1B	3.09	1.47	1.40
29	LC	202	PEB	CHA-C1B	3.09	1.47	1.40
29	LE	202	PEB	CHA-C1B	3.09	1.47	1.40
29	jB	201	PEB	C2A-C1A	-3.09	1.49	1.52
29	jM	201	PEB	C2A-C1A	-3.09	1.49	1.52
29	AC	203	PEB	CHA-C1B	3.09	1.47	1.40
29	AE	203	PEB	CHA-C1B	3.09	1.47	1.40
29	eF	202	PEB	CHA-C1B	3.09	1.47	1.40
29	eI	202	PEB	CHA-C1B	3.09	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	Z7	202	PEB	CHA-C1B	3.09	1.47	1.40
29	Z9	202	PEB	CHA-C1B	3.09	1.47	1.40
29	S7	202	PEB	CHA-C1B	3.08	1.47	1.40
29	S9	202	PEB	CHA-C1B	3.08	1.47	1.40
29	EB	201	PEB	C2A-C1A	-3.08	1.49	1.52
29	EM	201	PEB	C2A-C1A	-3.08	1.49	1.52
29	Q7	202	PEB	CHA-C1B	3.08	1.47	1.40
29	Q9	202	PEB	CHA-C1B	3.08	1.47	1.40
29	d1	201	PEB	C2C-C3C	3.08	1.46	1.37
29	dK	201	PEB	C2C-C3C	3.08	1.46	1.37
30	AM	304	PUB	C3B-C2B	3.08	1.46	1.37
29	gF	202	PEB	CHA-C1B	3.08	1.47	1.40
29	gI	202	PEB	CHA-C1B	3.08	1.47	1.40
29	VF	203	PEB	C2A-C1A	-3.08	1.49	1.52
29	VI	203	PEB	C2A-C1A	-3.08	1.49	1.52
29	VR	201	PEB	C2A-C1A	-3.08	1.49	1.52
29	eF	203	PEB	C2A-C1A	-3.08	1.49	1.52
29	eI	203	PEB	C2A-C1A	-3.08	1.49	1.52
29	d7	202	PEB	CHA-C1B	3.08	1.47	1.40
29	d9	202	PEB	CHA-C1B	3.08	1.47	1.40
29	O1	201	PEB	C2C-C3C	3.08	1.46	1.37
29	OK	201	PEB	C2C-C3C	3.08	1.46	1.37
29	f7	202	PEB	CHA-C1B	3.08	1.47	1.40
29	f9	202	PEB	CHA-C1B	3.08	1.47	1.40
29	mF	202	PEB	CHA-C1B	3.08	1.47	1.40
29	mI	202	PEB	CHA-C1B	3.08	1.47	1.40
29	W7	202	PEB	CHA-C1B	3.08	1.47	1.40
29	W9	202	PEB	CHA-C1B	3.08	1.47	1.40
29	JF	1002	PEB	C2A-C1A	-3.07	1.49	1.52
29	JI	1002	PEB	C2A-C1A	-3.07	1.49	1.52
29	LQ	202	PEB	C2C-C3C	3.07	1.46	1.37
29	FC	202	PEB	CHA-C1B	3.07	1.47	1.40
29	FE	202	PEB	CHA-C1B	3.07	1.47	1.40
29	T2	203	PEB	C2A-C1A	-3.07	1.49	1.52
29	h1	201	PEB	C2C-C3C	3.07	1.46	1.37
29	hK	201	PEB	C2C-C3C	3.07	1.46	1.37
29	F5	203	PEB	C2A-C1A	-3.07	1.49	1.52
29	F8	203	PEB	C2A-C1A	-3.07	1.49	1.52
30	AB	304	PUB	C3B-C2B	3.07	1.46	1.37
31	VP	1001	CYC	O1A-CGA	3.07	1.32	1.22
29	TR	201	PEB	C2A-C1A	-3.07	1.49	1.52
29	BC	202	PEB	CHA-C1B	3.07	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BE	202	PEB	CHA-C1B	3.07	1.47	1.40
29	Q1	201	PEB	C2C-C3C	3.06	1.46	1.37
29	QK	201	PEB	C2C-C3C	3.06	1.46	1.37
29	T7	203	PEB	C1A-NA	-3.06	1.33	1.37
29	T9	203	PEB	C1A-NA	-3.06	1.33	1.37
29	VB	201	PEB	C2A-C1A	-3.06	1.49	1.52
29	VM	201	PEB	C2A-C1A	-3.06	1.49	1.52
29	S1	201	PEB	C2C-C3C	3.06	1.46	1.37
29	SK	201	PEB	C2C-C3C	3.06	1.46	1.37
29	h7	202	PEB	CHA-C1B	3.06	1.47	1.40
29	h9	202	PEB	CHA-C1B	3.06	1.47	1.40
29	W1	201	PEB	C2C-C3C	3.06	1.46	1.37
29	WK	201	PEB	C2C-C3C	3.06	1.46	1.37
29	O7	201	PEB	CHA-C1B	3.06	1.47	1.40
29	O9	201	PEB	CHA-C1B	3.06	1.47	1.40
29	j1	201	PEB	C2C-C3C	3.06	1.46	1.37
29	jK	201	PEB	C2C-C3C	3.06	1.46	1.37
29	jF	202	PEB	OD-C4D	3.06	1.29	1.23
29	jI	202	PEB	OD-C4D	3.06	1.29	1.23
29	U7	201	PEB	CHA-C1B	3.05	1.47	1.40
29	b7	202	PEB	CHA-C1B	3.05	1.47	1.40
29	U9	201	PEB	CHA-C1B	3.05	1.47	1.40
29	b9	202	PEB	CHA-C1B	3.05	1.47	1.40
29	l1	201	PEB	C2C-C3C	3.05	1.46	1.37
29	lK	201	PEB	C2C-C3C	3.05	1.46	1.37
29	aF	203	PEB	C2A-C1A	-3.05	1.49	1.52
29	aI	203	PEB	C2A-C1A	-3.05	1.49	1.52
29	OF	202	PEB	OD-C4D	3.05	1.29	1.23
29	OI	202	PEB	OD-C4D	3.05	1.29	1.23
29	iF	203	PEB	C2A-C1A	-3.05	1.49	1.52
29	iI	203	PEB	C2A-C1A	-3.05	1.49	1.52
29	R7	203	PEB	C1A-NA	-3.05	1.33	1.37
29	R9	203	PEB	C1A-NA	-3.05	1.33	1.37
29	DB	201	PEB	C2A-C1A	-3.05	1.49	1.52
29	DM	201	PEB	C2A-C1A	-3.05	1.49	1.52
29	U1	202	PEB	C2C-C3C	3.05	1.46	1.37
29	UK	202	PEB	C2C-C3C	3.05	1.46	1.37
29	d7	201	PEB	CHA-C1B	3.05	1.47	1.40
29	d9	201	PEB	CHA-C1B	3.05	1.47	1.40
29	S7	201	PEB	CHA-C1B	3.05	1.47	1.40
29	S9	201	PEB	CHA-C1B	3.05	1.47	1.40
29	cF	202	PEB	C2A-C1A	-3.05	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	cI	202	PEB	C2A-C1A	-3.05	1.49	1.52
29	l7	202	PEB	CHA-C1B	3.05	1.47	1.40
29	l9	202	PEB	CHA-C1B	3.05	1.47	1.40
29	mB	201	PEB	C2A-C1A	-3.05	1.49	1.52
29	mM	201	PEB	C2A-C1A	-3.05	1.49	1.52
30	MN	402	PUB	OA-C1A	3.05	1.29	1.23
29	hF	202	PEB	OD-C4D	3.05	1.29	1.23
29	hI	202	PEB	OD-C4D	3.05	1.29	1.23
29	DJ	202	PEB	C2A-C1A	-3.05	1.49	1.52
29	DL	202	PEB	C2A-C1A	-3.05	1.49	1.52
29	W7	201	PEB	CHA-C1B	3.04	1.47	1.40
29	W9	201	PEB	CHA-C1B	3.04	1.47	1.40
29	kB	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	kM	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	mF	203	PEB	C2A-C1A	-3.04	1.49	1.52
29	mI	203	PEB	C2A-C1A	-3.04	1.49	1.52
30	AF	303	PUB	C3B-C2B	3.04	1.46	1.37
30	AI	303	PUB	C3B-C2B	3.04	1.46	1.37
29	tJ	202	PEB	C2A-C1A	-3.04	1.49	1.52
29	tL	202	PEB	C2A-C1A	-3.04	1.49	1.52
29	j7	201	PEB	CHA-C1B	3.04	1.47	1.40
29	j9	201	PEB	CHA-C1B	3.04	1.47	1.40
29	aB	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	aM	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	O7	202	PEB	CHA-C1B	3.04	1.47	1.40
29	U7	202	PEB	CHA-C1B	3.04	1.47	1.40
29	O9	202	PEB	CHA-C1B	3.04	1.47	1.40
29	U9	202	PEB	CHA-C1B	3.04	1.47	1.40
29	Y7	203	PEB	C1A-NA	-3.04	1.33	1.37
29	Y9	203	PEB	C1A-NA	-3.04	1.33	1.37
30	MA	402	PUB	OA-C1A	3.04	1.29	1.23
29	WB	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	WM	201	PEB	C2A-C1A	-3.04	1.49	1.52
29	l7	201	PEB	CHA-C1B	3.04	1.47	1.40
29	l9	201	PEB	CHA-C1B	3.04	1.47	1.40
29	G5	203	PEB	C2A-C1A	-3.03	1.49	1.52
29	YB	202	PEB	C2A-C1A	-3.03	1.49	1.52
29	YM	202	PEB	C2A-C1A	-3.03	1.49	1.52
29	iB	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	iM	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	fF	202	PEB	OD-C4D	3.03	1.29	1.23
29	fI	202	PEB	OD-C4D	3.03	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	m7	203	PEB	C1A-NA	-3.03	1.33	1.37
29	m9	203	PEB	C1A-NA	-3.03	1.33	1.37
29	ID	201	PEB	CHA-C1B	3.03	1.47	1.40
29	GD	201	PEB	CHA-C1B	3.03	1.47	1.40
29	BG	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	hJ	203	PEB	C2A-C1A	-3.03	1.49	1.52
29	hL	203	PEB	C2A-C1A	-3.03	1.49	1.52
29	BQ	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	fB	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	fM	201	PEB	C2A-C1A	-3.03	1.49	1.52
29	P2	202	PEB	C2A-C1A	-3.03	1.49	1.52
29	TF	202	PEB	C2A-C1A	-3.03	1.49	1.52
29	kF	203	PEB	C2A-C1A	-3.03	1.49	1.52
29	TI	202	PEB	C2A-C1A	-3.03	1.49	1.52
29	kI	203	PEB	C2A-C1A	-3.03	1.49	1.52
29	lF	202	PEB	OD-C4D	3.03	1.29	1.23
29	II	202	PEB	OD-C4D	3.03	1.29	1.23
29	b7	201	PEB	CHA-C1B	3.02	1.47	1.40
29	b9	201	PEB	CHA-C1B	3.02	1.47	1.40
29	h7	201	PEB	CHA-C1B	3.02	1.47	1.40
29	h9	201	PEB	CHA-C1B	3.02	1.47	1.40
29	GB	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	dB	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	GM	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	dM	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	ZF	202	PEB	OD-C4D	3.02	1.29	1.23
29	ZI	202	PEB	OD-C4D	3.02	1.29	1.23
29	f7	201	PEB	CHA-C1B	3.02	1.47	1.40
29	f9	201	PEB	CHA-C1B	3.02	1.47	1.40
29	ID	201	PEB	C2C-C3C	3.02	1.46	1.37
29	G4	201	PEB	CHA-C1B	3.02	1.47	1.40
29	Q7	201	PEB	CHA-C1B	3.02	1.47	1.40
29	Q9	201	PEB	CHA-C1B	3.02	1.47	1.40
29	bF	202	PEB	OD-C4D	3.02	1.29	1.23
29	bI	202	PEB	OD-C4D	3.02	1.29	1.23
29	V1	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	NB	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	JD	202	PEB	C2A-C1A	-3.02	1.49	1.52
29	VK	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	NM	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	dD	401	PEB	CHA-C1B	3.02	1.47	1.40
29	j7	202	PEB	CHA-C1B	3.02	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	j9	202	PEB	CHA-C1B	3.02	1.47	1.40
29	F4	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	HB	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	HM	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	gJ	202	PEB	OD-C4D	3.02	1.29	1.23
29	gL	202	PEB	OD-C4D	3.02	1.29	1.23
29	qJ	202	PEB	OD-C4D	3.02	1.29	1.23
29	qL	202	PEB	OD-C4D	3.02	1.29	1.23
29	F4	202	PEB	C2A-C1A	-3.02	1.49	1.52
29	FB	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	FM	201	PEB	C2A-C1A	-3.02	1.49	1.52
29	E4	201	PEB	CHA-C1B	3.02	1.47	1.40
29	MG	404	PEB	C2C-C3C	3.02	1.46	1.37
29	e7	203	PEB	C1A-NA	-3.02	1.33	1.37
29	e9	203	PEB	C1A-NA	-3.02	1.33	1.37
29	LJ	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	LL	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	RR	203	PEB	C2A-C1A	-3.01	1.49	1.52
31	I7	1001	CYC	C2C-C1C	-3.01	1.49	1.52
31	I9	1001	CYC	C2C-C1C	-3.01	1.49	1.52
29	C4	201	PEB	CHA-C1B	3.01	1.47	1.40
29	eB	201	PEB	C2A-C1A	-3.01	1.49	1.52
29	DG	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	eM	201	PEB	C2A-C1A	-3.01	1.49	1.52
29	DQ	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	mJ	202	PEB	OD-C4D	3.01	1.29	1.23
29	mL	202	PEB	OD-C4D	3.01	1.29	1.23
29	C4	201	PEB	C2C-C3C	3.01	1.46	1.37
29	lB	201	PEB	C2A-C1A	-3.01	1.49	1.52
29	lM	201	PEB	C2A-C1A	-3.01	1.49	1.52
29	i7	203	PEB	C1A-NA	-3.01	1.33	1.37
29	i9	203	PEB	C1A-NA	-3.01	1.33	1.37
31	E7	1001	CYC	C2C-C1C	-3.01	1.49	1.52
31	E9	1001	CYC	C2C-C1C	-3.01	1.49	1.52
29	QF	202	PEB	OD-C4D	3.01	1.29	1.23
29	QI	202	PEB	OD-C4D	3.01	1.29	1.23
29	B3	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	QB	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	vJ	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	vL	202	PEB	C2A-C1A	-3.01	1.49	1.52
29	QM	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	BO	203	PEB	C2A-C1A	-3.01	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	R2	202	PEB	C2C-C3C	3.01	1.46	1.37
29	JG	201	PEB	C2A-C1A	-3.01	1.49	1.52
29	JQ	201	PEB	C2A-C1A	-3.01	1.49	1.52
31	M7	1001	CYC	C2C-C1C	-3.01	1.49	1.52
29	I4	201	PEB	C2C-C3C	3.01	1.46	1.37
29	RR	202	PEB	C2C-C3C	3.01	1.46	1.37
29	UF	203	PEB	OD-C4D	3.01	1.29	1.23
29	UI	203	PEB	OD-C4D	3.01	1.29	1.23
29	FJ	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	FL	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	MD	201	PEB	C2C-C3C	3.01	1.46	1.37
29	rJ	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	rL	203	PEB	C2A-C1A	-3.01	1.49	1.52
29	nJ	203	PEB	C2A-C1A	-3.00	1.49	1.52
29	nL	203	PEB	C2A-C1A	-3.00	1.49	1.52
29	SF	202	PEB	OD-C4D	3.00	1.29	1.23
29	SI	202	PEB	OD-C4D	3.00	1.29	1.23
29	MQ	406	PEB	C2C-C3C	3.00	1.46	1.37
29	Z7	201	PEB	CHA-C1B	3.00	1.47	1.40
29	Z9	201	PEB	CHA-C1B	3.00	1.47	1.40
31	G9	1001	CYC	C2C-C1C	-3.00	1.49	1.52
29	UJ	202	PEB	OD-C4D	3.00	1.29	1.23
29	UL	202	PEB	OD-C4D	3.00	1.29	1.23
29	QJ	202	PEB	OD-C4D	3.00	1.29	1.23
29	QL	202	PEB	OD-C4D	3.00	1.29	1.23
29	X2	202	PEB	C2A-C1A	-3.00	1.49	1.52
29	k1	201	PEB	C2A-C1A	-3.00	1.49	1.52
29	RB	201	PEB	C2A-C1A	-3.00	1.49	1.52
29	kK	201	PEB	C2A-C1A	-3.00	1.49	1.52
29	RM	201	PEB	C2A-C1A	-3.00	1.49	1.52
29	MD	201	PEB	CHA-C1B	3.00	1.47	1.40
29	M4	201	PEB	CHA-C1B	3.00	1.47	1.40
29	WJ	203	PEB	OD-C4D	3.00	1.29	1.23
29	WL	203	PEB	OD-C4D	3.00	1.29	1.23
29	YJ	202	PEB	OD-C4D	3.00	1.29	1.23
29	YL	202	PEB	OD-C4D	3.00	1.29	1.23
29	jJ	203	PEB	C2A-C1A	-3.00	1.49	1.52
29	jL	203	PEB	C2A-C1A	-3.00	1.49	1.52
29	kJ	202	PEB	OD-C4D	3.00	1.29	1.23
29	kL	202	PEB	OD-C4D	3.00	1.29	1.23
31	C7	1001	CYC	C2C-C1C	-3.00	1.49	1.52
31	C9	1001	CYC	C2C-C1C	-3.00	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MJ	202	PEB	OD-C4D	3.00	1.29	1.23
29	ML	202	PEB	OD-C4D	3.00	1.29	1.23
29	g7	203	PEB	C1A-NA	-3.00	1.33	1.37
29	g9	203	PEB	C1A-NA	-3.00	1.33	1.37
29	CD	201	PEB	CHA-C1B	3.00	1.47	1.40
29	M4	201	PEB	C2C-C3C	3.00	1.46	1.37
29	I4	201	PEB	CHA-C1B	2.99	1.47	1.40
29	dJ	203	PEB	C2A-C1A	-2.99	1.49	1.52
29	dL	203	PEB	C2A-C1A	-2.99	1.49	1.52
29	sJ	203	PEB	CHA-C1B	2.99	1.47	1.40
29	sL	203	PEB	CHA-C1B	2.99	1.47	1.40
29	U2	202	PEB	OD-C4D	2.99	1.29	1.23
29	TB	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	TM	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	P1	201	PEB	C2C-C3C	2.99	1.46	1.37
29	c1	201	PEB	C2C-C3C	2.99	1.46	1.37
29	m1	201	PEB	C2C-C3C	2.99	1.46	1.37
29	PK	201	PEB	C2C-C3C	2.99	1.46	1.37
29	cK	201	PEB	C2C-C3C	2.99	1.46	1.37
29	mK	201	PEB	C2C-C3C	2.99	1.46	1.37
29	K4	201	PEB	CHA-C1B	2.99	1.47	1.40
29	V7	203	PEB	C1A-NA	-2.99	1.33	1.37
29	k7	203	PEB	C1A-NA	-2.99	1.33	1.37
29	V9	203	PEB	C1A-NA	-2.99	1.33	1.37
29	k9	203	PEB	C1A-NA	-2.99	1.33	1.37
29	oJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	oL	202	PEB	OD-C4D	2.99	1.29	1.23
29	WF	202	PEB	OD-C4D	2.99	1.29	1.23
29	WI	202	PEB	OD-C4D	2.99	1.29	1.23
29	SJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	SL	202	PEB	OD-C4D	2.99	1.29	1.23
29	J3	202	PEB	CHC-C4C	2.99	1.57	1.50
29	JO	202	PEB	CHC-C4C	2.99	1.57	1.50
29	P7	203	PEB	C1A-NA	-2.99	1.33	1.37
29	P9	203	PEB	C1A-NA	-2.99	1.33	1.37
29	H3	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	HO	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	CD	201	PEB	C2C-C3C	2.99	1.46	1.37
29	KJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	KL	202	PEB	OD-C4D	2.99	1.29	1.23
29	aJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	aL	202	PEB	OD-C4D	2.99	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	a1	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	L3	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	HJ	202	PEB	C2A-C1A	-2.99	1.49	1.52
29	aK	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	HL	202	PEB	C2A-C1A	-2.99	1.49	1.52
29	LO	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	HJ	201	PEB	CHA-C1B	2.99	1.47	1.40
29	HL	201	PEB	CHA-C1B	2.99	1.47	1.40
29	P2	201	PEB	C2C-C3C	2.99	1.46	1.37
29	TR	202	PEB	C2C-C3C	2.99	1.46	1.37
29	SJ	201	PEB	C2C-C3C	2.99	1.46	1.37
29	SL	201	PEB	C2C-C3C	2.99	1.46	1.37
29	iJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	iL	202	PEB	OD-C4D	2.99	1.29	1.23
29	V1	201	PEB	C2C-C3C	2.99	1.46	1.37
29	VK	201	PEB	C2C-C3C	2.99	1.46	1.37
29	PR	201	PEB	C2C-C3C	2.99	1.46	1.37
29	jJ	202	PEB	CHA-C1B	2.99	1.47	1.40
29	jL	202	PEB	CHA-C1B	2.99	1.47	1.40
29	UR	202	PEB	OD-C4D	2.99	1.29	1.23
29	T1	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	TK	201	PEB	C2A-C1A	-2.99	1.49	1.52
29	c7	203	PEB	C1A-NA	-2.99	1.33	1.37
29	c9	203	PEB	C1A-NA	-2.99	1.33	1.37
29	k1	201	PEB	C2C-C3C	2.99	1.46	1.37
29	kK	201	PEB	C2C-C3C	2.99	1.46	1.37
29	AJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	AL	202	PEB	OD-C4D	2.99	1.29	1.23
29	sJ	202	PEB	OD-C4D	2.99	1.29	1.23
29	sL	202	PEB	OD-C4D	2.99	1.29	1.23
29	pJ	203	PEB	C2A-C1A	-2.98	1.49	1.52
29	pL	203	PEB	C2A-C1A	-2.98	1.49	1.52
29	L3	202	PEB	C2A-C1A	-2.98	1.49	1.52
29	LO	202	PEB	C2A-C1A	-2.98	1.49	1.52
29	KD	201	PEB	CHA-C1B	2.98	1.47	1.40
29	e1	201	PEB	C2C-C3C	2.98	1.46	1.37
29	eK	201	PEB	C2C-C3C	2.98	1.46	1.37
29	EJ	201	PEB	C2C-C3C	2.98	1.46	1.37
29	EL	201	PEB	C2C-C3C	2.98	1.46	1.37
29	dF	203	PEB	OD-C4D	2.98	1.29	1.23
29	dI	203	PEB	OD-C4D	2.98	1.29	1.23
29	VJ	202	PEB	C2A-C1A	-2.98	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	VL	202	PEB	C2A-C1A	-2.98	1.49	1.52
29	KJ	201	PEB	C2C-C3C	2.98	1.46	1.37
29	KL	201	PEB	C2C-C3C	2.98	1.46	1.37
29	FG	202	PEB	C2A-C1A	-2.98	1.49	1.52
29	FQ	202	PEB	C2A-C1A	-2.98	1.49	1.52
31	K9	1001	CYC	C2C-C1C	-2.98	1.49	1.52
29	I3	203	PEB	CHC-C4C	2.98	1.57	1.50
29	IO	203	PEB	CHC-C4C	2.98	1.57	1.50
29	pJ	202	PEB	CHA-C1B	2.98	1.47	1.40
29	pL	202	PEB	CHA-C1B	2.98	1.47	1.40
29	PB	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	PM	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	eJ	201	PEB	C2C-C3C	2.98	1.46	1.37
29	eL	201	PEB	C2C-C3C	2.98	1.46	1.37
29	cJ	201	PEB	C2C-C3C	2.98	1.46	1.37
29	cL	201	PEB	C2C-C3C	2.98	1.46	1.37
29	FJ	202	PEB	CHA-C1B	2.98	1.47	1.40
29	FL	202	PEB	CHA-C1B	2.98	1.47	1.40
29	FG	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	FQ	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	Y1	201	PEB	C2C-C3C	2.98	1.46	1.37
29	g1	201	PEB	C2C-C3C	2.98	1.46	1.37
29	YK	201	PEB	C2C-C3C	2.98	1.46	1.37
29	gK	201	PEB	C2C-C3C	2.98	1.46	1.37
29	bJ	202	PEB	CHA-C1B	2.98	1.47	1.40
29	bL	202	PEB	CHA-C1B	2.98	1.47	1.40
29	Y1	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	YK	201	PEB	C2A-C1A	-2.98	1.49	1.52
29	E4	201	PEB	C2C-C3C	2.98	1.46	1.37
29	dD	401	PEB	C2C-C3C	2.98	1.46	1.37
29	WJ	202	PEB	C2C-C3C	2.98	1.46	1.37
29	WL	202	PEB	C2C-C3C	2.98	1.46	1.37
29	nJ	202	PEB	CHA-C1B	2.98	1.47	1.40
29	nL	202	PEB	CHA-C1B	2.98	1.47	1.40
31	HK	1001	CYC	C3D-C2D	2.98	1.46	1.37
29	uJ	203	PEB	OD-C4D	2.98	1.29	1.23
29	uL	203	PEB	OD-C4D	2.98	1.29	1.23
29	dJ	202	PEB	CHA-C1B	2.98	1.47	1.40
29	dL	202	PEB	CHA-C1B	2.98	1.47	1.40
29	a7	203	PEB	C1A-NA	-2.98	1.33	1.37
29	a9	203	PEB	C1A-NA	-2.98	1.33	1.37
29	MJ	201	PEB	C2C-C3C	2.98	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	ML	201	PEB	C2C-C3C	2.98	1.46	1.37
29	OJ	202	PEB	OD-C4D	2.98	1.29	1.23
29	OL	202	PEB	OD-C4D	2.98	1.29	1.23
29	K4	201	PEB	C2C-C3C	2.98	1.46	1.37
30	xL	304	PUB	C3B-C2B	2.98	1.46	1.37
31	H1	1001	CYC	C3D-C2D	2.98	1.46	1.37
31	DK	1001	CYC	C3D-C2D	2.98	1.46	1.37
29	GJ	202	PEB	OD-C4D	2.98	1.29	1.23
29	GL	202	PEB	OD-C4D	2.98	1.29	1.23
29	G4	201	PEB	C2C-C3C	2.98	1.46	1.37
29	GD	201	PEB	C2C-C3C	2.98	1.46	1.37
29	fJ	202	PEB	CHA-C1B	2.97	1.47	1.40
29	fL	202	PEB	CHA-C1B	2.97	1.47	1.40
29	i1	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	iK	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	mJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	mL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	WJ	201	PEB	CHA-C1B	2.97	1.47	1.40
29	WL	201	PEB	CHA-C1B	2.97	1.47	1.40
29	J3	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	H5	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	RF	202	PEB	C2A-C1A	-2.97	1.49	1.52
29	RI	202	PEB	C2A-C1A	-2.97	1.49	1.52
29	bJ	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	bL	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	JO	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	YJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	YL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	NJ	202	PEB	CHA-C1B	2.97	1.47	1.40
29	NL	202	PEB	CHA-C1B	2.97	1.47	1.40
29	V2	202	PEB	C2C-C3C	2.97	1.46	1.37
29	VR	202	PEB	C2C-C3C	2.97	1.46	1.37
29	V2	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	D3	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	F3	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	fJ	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	fL	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	DO	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	FO	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	VR	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	B3	202	PEB	CHC-C4C	2.97	1.57	1.50
29	BO	202	PEB	CHC-C4C	2.97	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	T7	202	PEB	OD-C4D	2.97	1.29	1.23
29	T9	202	PEB	OD-C4D	2.97	1.29	1.23
29	XJ	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	XL	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	F3	202	PEB	CHC-C4C	2.97	1.57	1.50
29	FO	202	PEB	CHC-C4C	2.97	1.57	1.50
29	KD	201	PEB	C2C-C3C	2.97	1.46	1.37
29	D3	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	cB	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	FD	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	cM	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	DO	201	PEB	C2A-C1A	-2.97	1.49	1.52
29	a1	201	PEB	C2C-C3C	2.97	1.46	1.37
29	OJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	aK	201	PEB	C2C-C3C	2.97	1.46	1.37
29	OL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	GJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	GL	201	PEB	C2C-C3C	2.97	1.46	1.37
30	A1	305	PUB	OA-C1A	2.97	1.29	1.23
30	AK	305	PUB	OA-C1A	2.97	1.29	1.23
29	UJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	UL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	L8	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	R1	201	PEB	C2C-C3C	2.97	1.46	1.37
29	RK	201	PEB	C2C-C3C	2.97	1.46	1.37
29	IJ	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	IL	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	T1	201	PEB	C2C-C3C	2.97	1.46	1.37
29	IJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	TK	201	PEB	C2C-C3C	2.97	1.46	1.37
29	IL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	N2	202	PEB	C2C-C3C	2.97	1.46	1.37
29	NR	202	PEB	C2C-C3C	2.97	1.46	1.37
29	ZJ	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	ZL	203	PEB	C2A-C1A	-2.97	1.49	1.52
29	AJ	201	PEB	C2C-C3C	2.97	1.46	1.37
29	AL	201	PEB	C2C-C3C	2.97	1.46	1.37
29	iJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	iL	201	PEB	C2C-C3C	2.96	1.46	1.37
29	PJ	202	PEB	CHA-C1B	2.96	1.47	1.40
29	PL	202	PEB	CHA-C1B	2.96	1.47	1.40
30	xJ	304	PUB	C3B-C2B	2.96	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CJ	202	PEB	OD-C4D	2.96	1.29	1.23
29	CL	202	PEB	OD-C4D	2.96	1.29	1.23
29	IJ	202	PEB	OD-C4D	2.96	1.29	1.23
29	IL	202	PEB	OD-C4D	2.96	1.29	1.23
31	L1	1001	CYC	C3D-C2D	2.96	1.46	1.37
31	LK	1001	CYC	C3D-C2D	2.96	1.46	1.37
29	XJ	202	PEB	CHA-C1B	2.96	1.47	1.40
29	XL	202	PEB	CHA-C1B	2.96	1.47	1.40
29	aJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	kJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	aL	201	PEB	C2C-C3C	2.96	1.46	1.37
29	kL	201	PEB	C2C-C3C	2.96	1.46	1.37
29	D4	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	g7	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	g9	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	cJ	202	PEB	OD-C4D	2.96	1.29	1.23
29	cL	202	PEB	OD-C4D	2.96	1.29	1.23
29	XR	202	PEB	C2C-C3C	2.96	1.46	1.37
29	sJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	sL	201	PEB	C2C-C3C	2.96	1.46	1.37
31	D1	1001	CYC	C3D-C2D	2.96	1.46	1.37
29	oJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	qJ	201	PEB	C2C-C3C	2.96	1.46	1.37
29	oL	201	PEB	C2C-C3C	2.96	1.46	1.37
29	qL	201	PEB	C2C-C3C	2.96	1.46	1.37
29	DG	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	DQ	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	e1	202	PEB	OD-C4D	2.96	1.29	1.23
29	eK	202	PEB	OD-C4D	2.96	1.29	1.23
29	ZJ	202	PEB	CHA-C1B	2.96	1.47	1.40
29	ZL	202	PEB	CHA-C1B	2.96	1.47	1.40
29	EJ	202	PEB	OD-C4D	2.96	1.29	1.23
29	EL	202	PEB	OD-C4D	2.96	1.29	1.23
31	N1	1001	CYC	C3D-C2D	2.96	1.46	1.37
29	IJ	203	PEB	CHA-C1B	2.96	1.47	1.40
29	IL	203	PEB	CHA-C1B	2.96	1.47	1.40
29	BG	202	PEB	C2A-C1A	-2.96	1.49	1.52
29	LG	201	PEB	C2A-C1A	-2.96	1.49	1.52
29	BJ	203	PEB	C2A-C1A	-2.96	1.49	1.52
29	BL	203	PEB	C2A-C1A	-2.96	1.49	1.52
29	BQ	202	PEB	C2A-C1A	-2.96	1.49	1.52
29	MQ	402	PEB	C2A-C1A	-2.96	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	eJ	202	PEB	OD-C4D	2.96	1.29	1.23
29	eL	202	PEB	OD-C4D	2.96	1.29	1.23
29	WR	202	PEB	OD-C4D	2.96	1.29	1.23
31	K7	1001	CYC	C2C-C1C	-2.96	1.49	1.52
29	c1	202	PEB	OD-C4D	2.95	1.29	1.23
29	cK	202	PEB	OD-C4D	2.95	1.29	1.23
30	A1	305	PUB	C3B-C2B	2.95	1.46	1.37
30	AK	305	PUB	C3B-C2B	2.95	1.46	1.37
29	lJ	202	PEB	CHA-C1B	2.95	1.47	1.40
29	lL	202	PEB	CHA-C1B	2.95	1.47	1.40
29	m7	202	PEB	OD-C4D	2.95	1.29	1.23
29	m9	202	PEB	OD-C4D	2.95	1.29	1.23
29	QJ	201	PEB	C2C-C3C	2.95	1.46	1.37
29	QL	201	PEB	C2C-C3C	2.95	1.46	1.37
29	JJ	203	PEB	C2A-C1A	-2.95	1.49	1.52
29	JL	203	PEB	C2A-C1A	-2.95	1.49	1.52
31	G7	1001	CYC	C2C-C1C	-2.95	1.49	1.52
29	uJ	202	PEB	C2C-C3C	2.95	1.46	1.37
29	uL	202	PEB	C2C-C3C	2.95	1.46	1.37
29	M2	202	PEB	OD-C4D	2.95	1.29	1.23
29	AC	202	PEB	OD-C4D	2.95	1.29	1.23
29	AE	202	PEB	OD-C4D	2.95	1.29	1.23
29	CJ	201	PEB	C2C-C3C	2.95	1.46	1.37
29	CL	201	PEB	C2C-C3C	2.95	1.46	1.37
29	eF	202	PEB	OD-C4D	2.95	1.29	1.23
29	eI	202	PEB	OD-C4D	2.95	1.29	1.23
29	HG	202	PEB	C2A-C1A	-2.95	1.49	1.52
29	TJ	203	PEB	C2A-C1A	-2.95	1.49	1.52
29	TL	203	PEB	C2A-C1A	-2.95	1.49	1.52
29	HQ	202	PEB	C2A-C1A	-2.95	1.49	1.52
29	Z1	203	PEB	OD-C4D	2.95	1.29	1.23
29	ZK	203	PEB	OD-C4D	2.95	1.29	1.23
29	GC	202	PEB	OD-C4D	2.95	1.29	1.23
29	GE	202	PEB	OD-C4D	2.95	1.29	1.23
29	V1	202	PEB	OD-C4D	2.95	1.29	1.23
29	YF	202	PEB	OD-C4D	2.95	1.29	1.23
29	YI	202	PEB	OD-C4D	2.95	1.29	1.23
29	VK	202	PEB	OD-C4D	2.95	1.29	1.23
29	LB	201	PEB	C2A-C1A	-2.95	1.49	1.52
29	JG	202	PEB	C2A-C1A	-2.95	1.49	1.52
29	RJ	203	PEB	C2A-C1A	-2.95	1.49	1.52
29	RL	203	PEB	C2A-C1A	-2.95	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LM	201	PEB	C2A-C1A	-2.95	1.49	1.52
29	JQ	202	PEB	C2A-C1A	-2.95	1.49	1.52
31	J1	1001	CYC	C3D-C2D	2.95	1.46	1.37
31	JK	1001	CYC	C3D-C2D	2.95	1.46	1.37
29	gJ	201	PEB	C2C-C3C	2.95	1.46	1.37
29	gL	201	PEB	C2C-C3C	2.95	1.46	1.37
31	NK	1001	CYC	C3D-C2D	2.95	1.46	1.37
29	T2	202	PEB	C2C-C3C	2.95	1.46	1.37
29	P7	202	PEB	OD-C4D	2.95	1.29	1.23
29	P9	202	PEB	OD-C4D	2.95	1.29	1.23
29	P1	201	PEB	C2A-C1A	-2.95	1.49	1.52
29	PK	201	PEB	C2A-C1A	-2.95	1.49	1.52
30	wJ	304	PUB	C3B-C2B	2.95	1.46	1.37
29	TJ	202	PEB	CHA-C1B	2.95	1.47	1.40
29	TL	202	PEB	CHA-C1B	2.95	1.47	1.40
29	B3	201	PEB	C2A-C1A	-2.95	1.49	1.52
29	BO	201	PEB	C2A-C1A	-2.95	1.49	1.52
29	TR	203	PEB	C2A-C1A	-2.95	1.49	1.52
29	a1	202	PEB	OD-C4D	2.94	1.29	1.23
29	aK	202	PEB	OD-C4D	2.94	1.29	1.23
29	rJ	202	PEB	CHA-C1B	2.94	1.47	1.40
29	rL	202	PEB	CHA-C1B	2.94	1.47	1.40
29	JJ	202	PEB	CHA-C1B	2.94	1.47	1.40
29	JL	202	PEB	CHA-C1B	2.94	1.47	1.40
29	c7	202	PEB	OD-C4D	2.94	1.29	1.23
29	c9	202	PEB	OD-C4D	2.94	1.29	1.23
29	EA	202	PEB	C2A-C1A	-2.94	1.49	1.52
29	EN	202	PEB	C2A-C1A	-2.94	1.49	1.52
29	AJ	203	PEB	CHA-C1B	2.94	1.47	1.40
29	uJ	201	PEB	CHA-C1B	2.94	1.47	1.40
29	AL	203	PEB	CHA-C1B	2.94	1.47	1.40
29	uL	201	PEB	CHA-C1B	2.94	1.47	1.40
29	gB	201	PEB	C2A-C1A	-2.94	1.49	1.52
29	gM	201	PEB	C2A-C1A	-2.94	1.49	1.52
29	R7	202	PEB	OD-C4D	2.94	1.29	1.23
29	R9	202	PEB	OD-C4D	2.94	1.29	1.23
29	i1	201	PEB	C2C-C3C	2.94	1.46	1.37
29	X2	201	PEB	C2C-C3C	2.94	1.46	1.37
29	iK	201	PEB	C2C-C3C	2.94	1.46	1.37
29	hJ	202	PEB	CHA-C1B	2.94	1.47	1.40
29	hL	202	PEB	CHA-C1B	2.94	1.47	1.40
29	O2	202	PEB	OD-C4D	2.94	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H3	202	PEB	CHC-C4C	2.94	1.57	1.50
29	HO	202	PEB	CHC-C4C	2.94	1.57	1.50
31	F1	1001	CYC	C3D-C2D	2.94	1.46	1.37
31	FK	1001	CYC	C3D-C2D	2.94	1.46	1.37
29	R1	202	PEB	OD-C4D	2.94	1.29	1.23
29	RK	202	PEB	OD-C4D	2.94	1.29	1.23
29	Q2	202	PEB	OD-C4D	2.94	1.29	1.23
29	H4	201	PEB	C2A-C1A	-2.94	1.49	1.52
29	HD	201	PEB	C2A-C1A	-2.94	1.49	1.52
29	PR	202	PEB	C2A-C1A	-2.94	1.49	1.52
29	V7	202	PEB	OD-C4D	2.93	1.29	1.23
29	V9	202	PEB	OD-C4D	2.93	1.29	1.23
29	i1	202	PEB	OD-C4D	2.93	1.29	1.23
29	iK	202	PEB	OD-C4D	2.93	1.29	1.23
29	l1	202	PEB	OD-C4D	2.93	1.29	1.23
29	lK	202	PEB	OD-C4D	2.93	1.29	1.23
29	j1	202	PEB	OD-C4D	2.93	1.29	1.23
29	k7	202	PEB	OD-C4D	2.93	1.29	1.23
29	k9	202	PEB	OD-C4D	2.93	1.29	1.23
29	jK	202	PEB	OD-C4D	2.93	1.29	1.23
29	N2	203	PEB	C2A-C1A	-2.93	1.49	1.52
29	R2	203	PEB	C2A-C1A	-2.93	1.49	1.52
29	NR	203	PEB	C2A-C1A	-2.93	1.49	1.52
29	BJ	202	PEB	CHA-C1B	2.93	1.47	1.40
29	BL	202	PEB	CHA-C1B	2.93	1.47	1.40
29	RJ	202	PEB	CHA-C1B	2.93	1.47	1.40
29	RL	202	PEB	CHA-C1B	2.93	1.47	1.40
29	mF	202	PEB	OD-C4D	2.93	1.29	1.23
29	mI	202	PEB	OD-C4D	2.93	1.29	1.23
29	QR	202	PEB	OD-C4D	2.93	1.29	1.23
29	g1	201	PEB	C2A-C1A	-2.93	1.49	1.52
29	Y7	201	PEB	C2A-C1A	-2.93	1.49	1.52
29	Y9	201	PEB	C2A-C1A	-2.93	1.49	1.52
29	gK	201	PEB	C2A-C1A	-2.93	1.49	1.52
29	i7	202	PEB	OD-C4D	2.93	1.29	1.23
29	i9	202	PEB	OD-C4D	2.93	1.29	1.23
29	P1	202	PEB	OD-C4D	2.93	1.29	1.23
29	PK	202	PEB	OD-C4D	2.93	1.29	1.23
29	k1	202	PEB	OD-C4D	2.93	1.29	1.23
29	kK	202	PEB	OD-C4D	2.93	1.29	1.23
29	G8	203	PEB	C2A-C1A	-2.93	1.49	1.52
29	JB	201	PEB	C2A-C1A	-2.93	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JM	201	PEB	C2A-C1A	-2.93	1.49	1.52
29	a7	202	PEB	OD-C4D	2.93	1.29	1.23
29	a9	202	PEB	OD-C4D	2.93	1.29	1.23
29	PF	202	PEB	OD-C4D	2.93	1.29	1.23
29	PI	202	PEB	OD-C4D	2.93	1.29	1.23
30	wL	304	PUB	C3B-C2B	2.93	1.46	1.37
29	VF	202	PEB	OD-C4D	2.93	1.29	1.23
29	VI	202	PEB	OD-C4D	2.93	1.29	1.23
30	QB	201	PUB	OD-C4D	2.93	1.29	1.23
30	QM	201	PUB	OD-C4D	2.93	1.29	1.23
29	XB	201	PEB	C2A-C1A	-2.92	1.49	1.52
29	XM	201	PEB	C2A-C1A	-2.92	1.49	1.52
29	gF	202	PEB	OD-C4D	2.92	1.29	1.23
29	gI	202	PEB	OD-C4D	2.92	1.29	1.23
29	kF	202	PEB	OD-C4D	2.92	1.29	1.23
29	kI	202	PEB	OD-C4D	2.92	1.29	1.23
29	H3	203	PEB	C2A-C1A	-2.92	1.49	1.52
29	HO	203	PEB	C2A-C1A	-2.92	1.49	1.52
29	LG	202	PEB	C2A-C1A	-2.92	1.49	1.52
29	LQ	201	PEB	C2A-C1A	-2.92	1.49	1.52
29	MQ	407	PEB	CHA-C1B	2.92	1.47	1.40
29	e7	202	PEB	OD-C4D	2.92	1.29	1.23
29	e9	202	PEB	OD-C4D	2.92	1.29	1.23
29	DB	202	PEB	C2C-C3C	2.92	1.46	1.37
29	DM	202	PEB	C2C-C3C	2.92	1.46	1.37
29	OF	203	PEB	OD-C4D	2.92	1.29	1.23
29	OI	203	PEB	OD-C4D	2.92	1.29	1.23
29	g1	202	PEB	OD-C4D	2.92	1.29	1.23
29	CC	202	PEB	OD-C4D	2.92	1.29	1.23
29	CE	202	PEB	OD-C4D	2.92	1.29	1.23
29	gK	202	PEB	OD-C4D	2.92	1.29	1.23
29	LB	202	PEB	C2C-C3C	2.92	1.46	1.37
29	LM	202	PEB	C2C-C3C	2.92	1.46	1.37
29	j1	203	PEB	OD-C4D	2.92	1.29	1.23
29	jK	203	PEB	OD-C4D	2.92	1.29	1.23
29	Q1	202	PEB	OD-C4D	2.91	1.29	1.23
29	U1	201	PEB	OD-C4D	2.91	1.29	1.23
29	UF	201	PEB	OD-C4D	2.91	1.29	1.23
29	UI	201	PEB	OD-C4D	2.91	1.29	1.23
29	QK	202	PEB	OD-C4D	2.91	1.29	1.23
29	UK	201	PEB	OD-C4D	2.91	1.29	1.23
29	R1	201	PEB	C2A-C1A	-2.91	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	RK	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	Y7	202	PEB	OD-C4D	2.91	1.29	1.23
29	Y9	202	PEB	OD-C4D	2.91	1.29	1.23
29	F3	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	J3	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	FO	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	JO	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	YB	201	PEB	C2C-C3C	2.91	1.46	1.37
29	YM	201	PEB	C2C-C3C	2.91	1.46	1.37
29	h1	202	PEB	OD-C4D	2.91	1.29	1.23
29	g7	202	PEB	OD-C4D	2.91	1.29	1.23
29	g9	202	PEB	OD-C4D	2.91	1.29	1.23
29	IC	202	PEB	OD-C4D	2.91	1.29	1.23
29	IE	202	PEB	OD-C4D	2.91	1.29	1.23
29	hK	202	PEB	OD-C4D	2.91	1.29	1.23
29	kB	202	PEB	C2C-C3C	2.91	1.46	1.37
29	kM	202	PEB	C2C-C3C	2.91	1.46	1.37
29	iF	202	PEB	OD-C4D	2.91	1.29	1.23
29	iI	202	PEB	OD-C4D	2.91	1.29	1.23
29	H8	203	PEB	C2A-C1A	-2.91	1.49	1.52
31	M9	1001	CYC	C2C-C1C	-2.91	1.49	1.52
29	EC	202	PEB	OD-C4D	2.91	1.29	1.23
29	EE	202	PEB	OD-C4D	2.91	1.29	1.23
29	xL	303	PEB	OD-C4D	2.91	1.29	1.23
29	gB	202	PEB	C2C-C3C	2.91	1.46	1.37
29	gM	202	PEB	C2C-C3C	2.91	1.46	1.37
29	Z1	201	PEB	OD-C4D	2.91	1.29	1.23
29	ZK	201	PEB	OD-C4D	2.91	1.29	1.23
29	HB	202	PEB	C2C-C3C	2.91	1.46	1.37
29	CD	202	PEB	C2C-C3C	2.91	1.46	1.37
29	HM	202	PEB	C2C-C3C	2.91	1.46	1.37
29	U1	203	PEB	OD-C4D	2.91	1.29	1.23
29	UK	203	PEB	OD-C4D	2.91	1.29	1.23
29	e1	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	L5	203	PEB	C2A-C1A	-2.91	1.49	1.52
29	eK	201	PEB	C2A-C1A	-2.91	1.49	1.52
29	TB	202	PEB	C2C-C3C	2.90	1.46	1.37
29	TM	202	PEB	C2C-C3C	2.90	1.46	1.37
29	PJ	203	PEB	C2A-C1A	-2.90	1.49	1.52
29	PL	203	PEB	C2A-C1A	-2.90	1.49	1.52
29	KB	203	PEB	C2C-C3C	2.90	1.46	1.37
29	KM	203	PEB	C2C-C3C	2.90	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MG	405	PEB	CHA-C1B	2.90	1.47	1.40
29	KC	203	PEB	OD-C4D	2.90	1.29	1.23
29	KE	203	PEB	OD-C4D	2.90	1.29	1.23
29	HG	201	PEB	C2A-C1A	-2.90	1.49	1.52
29	HQ	201	PEB	C2A-C1A	-2.90	1.49	1.52
29	W2	202	PEB	OD-C4D	2.90	1.29	1.23
29	RB	202	PEB	C2C-C3C	2.90	1.46	1.37
29	RM	202	PEB	C2C-C3C	2.90	1.46	1.37
29	S1	202	PEB	OD-C4D	2.90	1.29	1.23
29	SK	202	PEB	OD-C4D	2.90	1.29	1.23
29	JB	202	PEB	C2C-C3C	2.90	1.46	1.37
29	JM	202	PEB	C2C-C3C	2.90	1.46	1.37
29	d1	202	PEB	OD-C4D	2.90	1.29	1.23
29	dK	202	PEB	OD-C4D	2.90	1.29	1.23
29	XR	203	PEB	C2A-C1A	-2.90	1.49	1.52
29	W1	202	PEB	OD-C4D	2.90	1.29	1.23
29	WK	202	PEB	OD-C4D	2.90	1.29	1.23
29	dF	201	PEB	OD-C4D	2.90	1.29	1.23
29	dI	201	PEB	OD-C4D	2.90	1.29	1.23
29	aB	203	PEB	C2C-C3C	2.90	1.46	1.37
29	aM	203	PEB	C2C-C3C	2.90	1.46	1.37
29	DD	201	PEB	C2A-C1A	-2.90	1.49	1.52
29	xJ	303	PEB	OD-C4D	2.90	1.29	1.23
29	QB	202	PEB	C2C-C3C	2.89	1.46	1.37
29	QM	202	PEB	C2C-C3C	2.89	1.46	1.37
29	mB	202	PEB	C2C-C3C	2.89	1.46	1.37
29	mM	202	PEB	C2C-C3C	2.89	1.46	1.37
29	R7	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	R9	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	k7	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	k9	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	J5	201	PEB	C4A-NA	-2.89	1.31	1.37
29	J8	201	PEB	C4A-NA	-2.89	1.31	1.37
29	cB	202	PEB	C2C-C3C	2.89	1.46	1.37
29	cM	202	PEB	C2C-C3C	2.89	1.46	1.37
29	SR	202	PEB	OD-C4D	2.89	1.29	1.23
29	NJ	203	PEB	C2A-C1A	-2.89	1.49	1.52
29	NL	203	PEB	C2A-C1A	-2.89	1.49	1.52
29	FB	202	PEB	C2C-C3C	2.89	1.46	1.37
29	FM	202	PEB	C2C-C3C	2.89	1.46	1.37
29	T7	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	H8	201	PEB	C2A-C1A	-2.89	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	T9	201	PEB	C2A-C1A	-2.89	1.49	1.52
29	G4	202	PEB	C2C-C3C	2.89	1.46	1.37
29	GD	202	PEB	C2C-C3C	2.89	1.46	1.37
29	B4	201	PEB	C2A-C1A	-2.88	1.49	1.52
29	BD	201	PEB	C2A-C1A	-2.88	1.49	1.52
31	1P	1001	CYC	OB-C4B	2.88	1.29	1.23
29	KD	202	PEB	C2C-C3C	2.88	1.46	1.37
29	S2	202	PEB	OD-C4D	2.88	1.29	1.23
29	ID	202	PEB	C2C-C3C	2.88	1.46	1.37
29	ZB	202	PEB	C2C-C3C	2.88	1.46	1.37
29	ZM	202	PEB	C2C-C3C	2.88	1.46	1.37
29	CA	201	PEB	CHA-C1B	2.88	1.47	1.40
29	CN	201	PEB	CHA-C1B	2.88	1.47	1.40
29	GA	202	PEB	C2A-C1A	-2.88	1.49	1.52
29	GN	202	PEB	C2A-C1A	-2.88	1.49	1.52
29	iB	202	PEB	C2C-C3C	2.88	1.46	1.37
29	iM	202	PEB	C2C-C3C	2.88	1.46	1.37
29	J3	202	PEB	OD-C4D	2.88	1.29	1.23
29	M3	203	PEB	OD-C4D	2.88	1.29	1.23
29	JO	202	PEB	OD-C4D	2.88	1.29	1.23
29	MO	203	PEB	OD-C4D	2.88	1.29	1.23
29	HA	202	PEB	C2A-C1A	-2.88	1.49	1.52
29	HN	202	PEB	C2A-C1A	-2.88	1.49	1.52
29	L4	201	PEB	C2A-C1A	-2.88	1.49	1.52
31	nP	1001	CYC	OB-C4B	2.88	1.29	1.23
29	C4	202	PEB	C2C-C3C	2.88	1.46	1.37
29	fI	202	PEB	OD-C4D	2.88	1.29	1.23
29	fK	202	PEB	OD-C4D	2.88	1.29	1.23
29	VB	202	PEB	C2C-C3C	2.87	1.46	1.37
29	VM	202	PEB	C2C-C3C	2.87	1.46	1.37
29	aF	202	PEB	OD-C4D	2.87	1.29	1.23
29	aI	202	PEB	OD-C4D	2.87	1.29	1.23
29	b1	202	PEB	OD-C4D	2.87	1.29	1.23
29	bK	202	PEB	OD-C4D	2.87	1.29	1.23
29	F5	201	PEB	C2A-C1A	-2.87	1.49	1.52
29	F8	201	PEB	C2A-C1A	-2.87	1.49	1.52
29	xL	301	PEB	C1A-NA	-2.87	1.33	1.37
30	MN	402	PUB	OD-C4D	2.87	1.29	1.23
29	KA	202	PEB	C2A-C1A	-2.87	1.49	1.52
29	KN	202	PEB	C2A-C1A	-2.87	1.49	1.52
29	m1	201	PEB	C2A-C1A	-2.86	1.49	1.52
29	mK	201	PEB	C2A-C1A	-2.86	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	UP	1001	CYC	OB-C4B	2.86	1.29	1.23
29	MD	202	PEB	C2C-C3C	2.86	1.46	1.37
29	O1	202	PEB	OD-C4D	2.86	1.29	1.23
29	OK	202	PEB	OD-C4D	2.86	1.29	1.23
29	B8	201	PEB	C2A-C1A	-2.86	1.49	1.52
29	I4	202	PEB	C2C-C3C	2.86	1.46	1.37
31	SP	1001	CYC	OB-C4B	2.86	1.29	1.23
29	PR	201	PEB	CHA-C1B	2.86	1.47	1.40
31	oP	1001	CYC	OB-C4B	2.86	1.29	1.23
29	ED	201	PEB	C2C-C3C	2.86	1.46	1.37
29	P7	201	PEB	C2A-C1A	-2.86	1.49	1.52
29	P9	201	PEB	C2A-C1A	-2.86	1.49	1.52
31	kP	1001	CYC	OB-C4B	2.86	1.29	1.23
29	I3	203	PEB	OD-C4D	2.86	1.29	1.23
29	IO	203	PEB	OD-C4D	2.86	1.29	1.23
31	DP	1001	CYC	OB-C4B	2.86	1.29	1.23
29	FC	203	PEB	OD-C4D	2.86	1.29	1.23
29	FE	203	PEB	OD-C4D	2.86	1.29	1.23
29	GA	202	PEB	OD-C4D	2.86	1.29	1.23
29	GN	202	PEB	OD-C4D	2.86	1.29	1.23
29	F3	202	PEB	OD-C4D	2.86	1.29	1.23
29	FO	202	PEB	OD-C4D	2.86	1.29	1.23
29	IA	201	PEB	CHA-C1B	2.85	1.47	1.40
29	IN	201	PEB	CHA-C1B	2.85	1.47	1.40
29	g7	202	PEB	C2C-C3C	2.85	1.46	1.37
29	g9	202	PEB	C2C-C3C	2.85	1.46	1.37
29	K4	202	PEB	C2C-C3C	2.85	1.46	1.37
31	IK	1001	CYC	C2C-C1C	-2.85	1.49	1.52
29	wL	303	PEB	OD-C4D	2.85	1.29	1.23
29	EA	201	PEB	CHA-C1B	2.85	1.47	1.40
29	EN	201	PEB	CHA-C1B	2.85	1.47	1.40
29	P7	202	PEB	C2C-C3C	2.85	1.46	1.37
29	P9	202	PEB	C2C-C3C	2.85	1.46	1.37
29	LC	203	PEB	OD-C4D	2.85	1.29	1.23
29	LE	203	PEB	OD-C4D	2.85	1.29	1.23
31	BP	1001	CYC	OB-C4B	2.85	1.29	1.23
29	AF	305	PEB	C1A-NA	-2.85	1.33	1.37
29	AI	305	PEB	C1A-NA	-2.85	1.33	1.37
29	CA	202	PEB	C2A-C1A	-2.85	1.49	1.52
29	CN	202	PEB	C2A-C1A	-2.85	1.49	1.52
29	a7	202	PEB	C2C-C3C	2.85	1.46	1.37
29	a9	202	PEB	C2C-C3C	2.85	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	uP	1001	CYC	OB-C4B	2.85	1.29	1.23
30	AB	305	PUB	OA-C1A	2.85	1.29	1.23
31	hP	1001	CYC	OB-C4B	2.85	1.29	1.23
29	T7	202	PEB	C2C-C3C	2.85	1.46	1.37
29	T9	202	PEB	C2C-C3C	2.85	1.46	1.37
29	B3	202	PEB	OD-C4D	2.85	1.29	1.23
29	BO	202	PEB	OD-C4D	2.85	1.29	1.23
30	MA	402	PUB	OD-C4D	2.84	1.29	1.23
29	c7	202	PEB	C2C-C3C	2.84	1.46	1.37
29	c9	202	PEB	C2C-C3C	2.84	1.46	1.37
31	fP	1001	CYC	OB-C4B	2.84	1.29	1.23
29	c1	201	PEB	C2A-C1A	-2.84	1.49	1.52
29	DA	202	PEB	C2A-C1A	-2.84	1.49	1.52
29	cK	201	PEB	C2A-C1A	-2.84	1.49	1.52
29	DN	202	PEB	C2A-C1A	-2.84	1.49	1.52
29	H3	202	PEB	OD-C4D	2.84	1.29	1.23
29	HO	202	PEB	OD-C4D	2.84	1.29	1.23
29	wJ	303	PEB	OD-C4D	2.84	1.29	1.23
29	KA	201	PEB	CHA-C1B	2.84	1.47	1.40
29	KN	201	PEB	CHA-C1B	2.84	1.47	1.40
29	Y7	202	PEB	C2C-C3C	2.84	1.46	1.37
29	Y9	202	PEB	C2C-C3C	2.84	1.46	1.37
31	OP	1001	CYC	OB-C4B	2.84	1.29	1.23
29	V7	202	PEB	C2C-C3C	2.84	1.46	1.37
29	V9	202	PEB	C2C-C3C	2.84	1.46	1.37
29	GA	201	PEB	CHA-C1B	2.84	1.47	1.40
29	GN	201	PEB	CHA-C1B	2.84	1.47	1.40
29	i7	202	PEB	C2C-C3C	2.84	1.46	1.37
29	i9	202	PEB	C2C-C3C	2.84	1.46	1.37
31	FP	1001	CYC	OB-C4B	2.84	1.29	1.23
29	G8	201	PEB	C2A-C1A	-2.84	1.49	1.52
29	EA	202	PEB	OD-C4D	2.84	1.29	1.23
29	EN	202	PEB	OD-C4D	2.84	1.29	1.23
31	HP	1001	CYC	OB-C4B	2.84	1.29	1.23
29	cJ	201	PEB	C4A-NA	-2.84	1.31	1.37
29	cL	201	PEB	C4A-NA	-2.84	1.31	1.37
29	G5	201	PEB	C2A-C1A	-2.84	1.49	1.52
29	LA	202	PEB	C2A-C1A	-2.84	1.49	1.52
29	LN	202	PEB	C2A-C1A	-2.84	1.49	1.52
29	c7	201	PEB	C2A-C1A	-2.83	1.49	1.52
29	c9	201	PEB	C2A-C1A	-2.83	1.49	1.52
29	AA	201	PEB	CHA-C1B	2.83	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AN	201	PEB	CHA-C1B	2.83	1.47	1.40
29	iJ	201	PEB	C4A-NA	-2.83	1.31	1.37
29	iL	201	PEB	C4A-NA	-2.83	1.31	1.37
29	HC	203	PEB	OD-C4D	2.83	1.29	1.23
29	HE	203	PEB	OD-C4D	2.83	1.29	1.23
31	HF	1001	CYC	C3D-C2D	2.83	1.46	1.37
31	HI	1001	CYC	C3D-C2D	2.83	1.46	1.37
29	JC	202	PEB	OD-C4D	2.83	1.29	1.23
29	JE	202	PEB	OD-C4D	2.83	1.29	1.23
29	PF	202	PEB	C2A-C1A	-2.83	1.49	1.52
29	PI	202	PEB	C2A-C1A	-2.83	1.49	1.52
31	QP	1001	CYC	OB-C4B	2.83	1.29	1.23
31	sP	1001	CYC	OB-C4B	2.83	1.29	1.23
29	R7	202	PEB	C2C-C3C	2.83	1.46	1.37
29	R9	202	PEB	C2C-C3C	2.83	1.46	1.37
31	IP	1001	CYC	OB-C4B	2.83	1.29	1.23
29	iI	202	PEB	C2C-C3C	2.83	1.46	1.37
29	iK	202	PEB	C2C-C3C	2.83	1.46	1.37
29	mJ	201	PEB	C4A-NA	-2.83	1.31	1.37
29	mL	201	PEB	C4A-NA	-2.83	1.31	1.37
29	E4	202	PEB	C2C-C3C	2.83	1.46	1.37
29	aJ	201	PEB	C4A-NA	-2.83	1.31	1.37
29	aL	201	PEB	C4A-NA	-2.83	1.31	1.37
29	N3	203	PEB	OD-C4D	2.83	1.29	1.23
30	AM	305	PUB	OA-C1A	2.83	1.29	1.23
29	m7	202	PEB	C2C-C3C	2.83	1.46	1.37
29	m9	202	PEB	C2C-C3C	2.83	1.46	1.37
29	NO	203	PEB	OD-C4D	2.83	1.29	1.23
31	wP	1001	CYC	OB-C4B	2.83	1.29	1.23
29	D3	202	PEB	OD-C4D	2.83	1.29	1.23
29	k7	202	PEB	C2C-C3C	2.83	1.46	1.37
29	k9	202	PEB	C2C-C3C	2.83	1.46	1.37
29	QJ	201	PEB	C4A-NA	-2.83	1.31	1.37
29	QL	201	PEB	C4A-NA	-2.83	1.31	1.37
29	e7	202	PEB	C2C-C3C	2.83	1.46	1.37
29	e9	202	PEB	C2C-C3C	2.83	1.46	1.37
29	I5	203	PEB	C2A-C1A	-2.83	1.49	1.52
29	I8	203	PEB	C2A-C1A	-2.83	1.49	1.52
29	uJ	202	PEB	C4A-NA	-2.82	1.31	1.37
29	uL	202	PEB	C4A-NA	-2.82	1.31	1.37
29	c1	202	PEB	C2C-C3C	2.82	1.46	1.37
29	cK	202	PEB	C2C-C3C	2.82	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	V7	201	PEB	C2A-C1A	-2.82	1.49	1.52
29	e7	201	PEB	C2A-C1A	-2.82	1.49	1.52
29	V9	201	PEB	C2A-C1A	-2.82	1.49	1.52
29	e9	201	PEB	C2A-C1A	-2.82	1.49	1.52
29	AJ	201	PEB	C4A-NA	-2.82	1.31	1.37
29	AL	201	PEB	C4A-NA	-2.82	1.31	1.37
29	IJ	201	PEB	C4A-NA	-2.82	1.31	1.37
29	IL	201	PEB	C4A-NA	-2.82	1.31	1.37
29	XR	202	PEB	CHA-C1B	2.82	1.47	1.40
29	SJ	201	PEB	C4A-NA	-2.82	1.31	1.37
29	SL	201	PEB	C4A-NA	-2.82	1.31	1.37
30	MA	403	PUB	OA-C1A	2.82	1.28	1.23
31	qP	1001	CYC	OB-C4B	2.82	1.28	1.23
31	DF	1001	CYC	C3D-C2D	2.82	1.46	1.37
31	DI	1001	CYC	C3D-C2D	2.82	1.46	1.37
29	JA	202	PEB	C2A-C1A	-2.82	1.49	1.52
29	JN	202	PEB	C2A-C1A	-2.82	1.49	1.52
29	g1	202	PEB	C2C-C3C	2.82	1.46	1.37
29	gK	202	PEB	C2C-C3C	2.82	1.46	1.37
29	a1	202	PEB	C2C-C3C	2.82	1.46	1.37
29	aK	202	PEB	C2C-C3C	2.82	1.46	1.37
29	DO	202	PEB	OD-C4D	2.82	1.28	1.23
29	g7	202	PEB	C2A-C1A	-2.82	1.49	1.52
29	g9	202	PEB	C2A-C1A	-2.82	1.49	1.52
29	IA	202	PEB	OD-C4D	2.82	1.28	1.23
29	DC	202	PEB	OD-C4D	2.82	1.28	1.23
29	DE	202	PEB	OD-C4D	2.82	1.28	1.23
29	IN	202	PEB	OD-C4D	2.82	1.28	1.23
31	NF	1001	CYC	C3D-C2D	2.82	1.46	1.37
31	NI	1001	CYC	C3D-C2D	2.82	1.46	1.37
31	FF	1001	CYC	C3D-C2D	2.82	1.46	1.37
31	FI	1001	CYC	C3D-C2D	2.82	1.46	1.37
29	oJ	201	PEB	C4A-NA	-2.82	1.31	1.37
29	oL	201	PEB	C4A-NA	-2.82	1.31	1.37
29	gJ	201	PEB	C4A-NA	-2.82	1.31	1.37
29	gL	201	PEB	C4A-NA	-2.82	1.31	1.37
29	OJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	OL	201	PEB	C4A-NA	-2.81	1.31	1.37
29	R2	202	PEB	CHA-C1B	2.81	1.47	1.40
29	RR	202	PEB	CHA-C1B	2.81	1.47	1.40
29	N2	202	PEB	CHA-C1B	2.81	1.47	1.40
29	NR	202	PEB	CHA-C1B	2.81	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	LF	1001	CYC	C3D-C2D	2.81	1.46	1.37
31	LI	1001	CYC	C3D-C2D	2.81	1.46	1.37
30	MQ	404	PUB	OA-C1A	2.81	1.28	1.23
30	yL	303	PUB	OD-C4D	2.81	1.28	1.23
29	B5	201	PEB	C2A-C1A	-2.81	1.49	1.52
29	AA	202	PEB	C2A-C1A	-2.81	1.49	1.52
29	AN	202	PEB	C2A-C1A	-2.81	1.49	1.52
29	CJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	CL	201	PEB	C4A-NA	-2.81	1.31	1.37
30	AF	303	PUB	OD-C4D	2.81	1.28	1.23
30	AI	303	PUB	OD-C4D	2.81	1.28	1.23
29	MJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	UJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	ML	201	PEB	C4A-NA	-2.81	1.31	1.37
29	UL	201	PEB	C4A-NA	-2.81	1.31	1.37
29	F7	1002	PEB	C2A-C1A	-2.81	1.49	1.52
29	CA	202	PEB	OD-C4D	2.81	1.28	1.23
29	CN	202	PEB	OD-C4D	2.81	1.28	1.23
29	M4	202	PEB	C2C-C3C	2.81	1.46	1.37
29	AA	202	PEB	OD-C4D	2.81	1.28	1.23
29	AN	202	PEB	OD-C4D	2.81	1.28	1.23
31	MP	1001	CYC	OB-C4B	2.81	1.28	1.23
29	eJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	eL	201	PEB	C4A-NA	-2.81	1.31	1.37
29	P2	201	PEB	CHA-C1B	2.81	1.47	1.40
29	AB	303	PEB	OD-C4D	2.81	1.28	1.23
29	sJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	sL	201	PEB	C4A-NA	-2.81	1.31	1.37
29	V2	202	PEB	CHA-C1B	2.81	1.47	1.40
29	VR	202	PEB	CHA-C1B	2.81	1.47	1.40
29	kJ	201	PEB	C4A-NA	-2.81	1.31	1.37
29	kL	201	PEB	C4A-NA	-2.81	1.31	1.37
29	Z1	201	PEB	C2C-C3C	2.81	1.46	1.37
29	ZK	201	PEB	C2C-C3C	2.81	1.46	1.37
29	e1	202	PEB	C2C-C3C	2.81	1.46	1.37
29	eK	202	PEB	C2C-C3C	2.81	1.46	1.37
30	wJ	304	PUB	OA-C1A	2.81	1.28	1.23
29	H5	201	PEB	C2A-C1A	-2.80	1.49	1.52
29	xJ	301	PEB	C1A-NA	-2.80	1.34	1.37
29	KJ	201	PEB	C4A-NA	-2.80	1.31	1.37
29	KL	201	PEB	C4A-NA	-2.80	1.31	1.37
29	JA	202	PEB	C2C-C3C	2.80	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JN	202	PEB	C2C-C3C	2.80	1.46	1.37
31	JF	1001	CYC	C3D-C2D	2.80	1.46	1.37
31	JI	1001	CYC	C3D-C2D	2.80	1.46	1.37
29	N7	1002	PEB	C2A-C1A	-2.80	1.49	1.52
29	e7	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	N9	1002	PEB	C2A-C1A	-2.80	1.49	1.52
29	e9	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	EJ	201	PEB	C4A-NA	-2.80	1.31	1.37
29	EL	201	PEB	C4A-NA	-2.80	1.31	1.37
29	M4	203	PEB	OD-C4D	2.80	1.28	1.23
29	FG	203	PEB	OD-C4D	2.80	1.28	1.23
29	FQ	203	PEB	OD-C4D	2.80	1.28	1.23
29	HA	202	PEB	C2C-C3C	2.80	1.46	1.37
29	HN	202	PEB	C2C-C3C	2.80	1.46	1.37
31	DF	1001	CYC	C1B-NB	-2.80	1.33	1.37
31	DI	1001	CYC	C1B-NB	-2.80	1.33	1.37
29	AM	302	PEB	OD-C4D	2.80	1.28	1.23
30	AB	304	PUB	OA-C1A	2.80	1.28	1.23
29	wJ	301	PEB	C1A-NA	-2.80	1.34	1.37
29	i7	201	PEB	C2A-C1A	-2.80	1.49	1.52
29	i9	201	PEB	C2A-C1A	-2.80	1.49	1.52
29	IA	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	IN	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	FA	202	PEB	C2C-C3C	2.80	1.46	1.37
29	FN	202	PEB	C2C-C3C	2.80	1.46	1.37
29	RR	202	PEB	C1A-NA	-2.80	1.34	1.37
29	FA	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	FN	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	P1	202	PEB	C2C-C3C	2.80	1.46	1.37
29	PK	202	PEB	C2C-C3C	2.80	1.46	1.37
31	XP	1001	CYC	OB-C4B	2.80	1.28	1.23
29	R1	202	PEB	C2C-C3C	2.80	1.46	1.37
29	RK	202	PEB	C2C-C3C	2.80	1.46	1.37
29	EB	202	PEB	OD-C4D	2.80	1.28	1.23
29	EM	202	PEB	OD-C4D	2.80	1.28	1.23
29	qJ	201	PEB	C4A-NA	-2.80	1.31	1.37
29	qL	201	PEB	C4A-NA	-2.80	1.31	1.37
29	a7	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	a9	202	PEB	C2A-C1A	-2.80	1.49	1.52
29	F9	1002	PEB	C2A-C1A	-2.79	1.49	1.52
29	LD	201	PEB	C2A-C1A	-2.79	1.49	1.52
29	PR	201	PEB	C1A-NA	-2.79	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	E1	1001	CYC	C2C-C1C	-2.79	1.49	1.52
31	1P	1002	CYC	C1B-C2B	2.79	1.50	1.45
31	EK	1001	CYC	C2C-C1C	-2.79	1.49	1.52
29	AB	302	PEB	OD-C4D	2.79	1.28	1.23
29	xJ	301	PEB	CHA-C1B	2.79	1.47	1.40
29	BC	203	PEB	OD-C4D	2.79	1.28	1.23
29	BE	203	PEB	OD-C4D	2.79	1.28	1.23
29	OR	202	PEB	OD-C4D	2.79	1.28	1.23
30	AM	304	PUB	OA-C1A	2.79	1.28	1.23
29	WJ	202	PEB	C4A-NA	-2.79	1.31	1.37
29	WL	202	PEB	C4A-NA	-2.79	1.31	1.37
29	X2	201	PEB	CHA-C1B	2.79	1.47	1.40
29	FJ	203	PEB	OD-C4D	2.79	1.28	1.23
29	FL	203	PEB	OD-C4D	2.79	1.28	1.23
31	jP	1001	CYC	OB-C4B	2.79	1.28	1.23
29	U1	201	PEB	C2C-C3C	2.79	1.45	1.37
29	UK	201	PEB	C2C-C3C	2.79	1.45	1.37
29	BA	202	PEB	C2C-C3C	2.79	1.45	1.37
29	BN	202	PEB	C2C-C3C	2.79	1.45	1.37
29	J4	201	PEB	C2A-C1A	-2.79	1.49	1.52
29	HK	1002	PEB	C2A-C1A	-2.79	1.49	1.52
29	GJ	201	PEB	C4A-NA	-2.79	1.31	1.37
29	GL	201	PEB	C4A-NA	-2.79	1.31	1.37
29	j1	203	PEB	C2C-C3C	2.79	1.45	1.37
29	jK	203	PEB	C2C-C3C	2.79	1.45	1.37
29	k1	202	PEB	C2C-C3C	2.79	1.45	1.37
29	kK	202	PEB	C2C-C3C	2.79	1.45	1.37
29	H1	1002	PEB	C2A-C1A	-2.79	1.49	1.52
29	N2	202	PEB	C1A-NA	-2.79	1.34	1.37
29	NR	202	PEB	C1A-NA	-2.79	1.34	1.37
30	MG	402	PUB	OA-C1A	2.79	1.28	1.23
30	wL	305	PUB	OD-C4D	2.79	1.28	1.23
29	LA	202	PEB	C2C-C3C	2.78	1.45	1.37
29	LN	202	PEB	C2C-C3C	2.78	1.45	1.37
29	JD	201	PEB	C2A-C1A	-2.78	1.49	1.52
29	BG	203	PEB	OD-C4D	2.78	1.28	1.23
29	N3	202	PEB	C2A-C1A	-2.78	1.49	1.52
29	KA	202	PEB	OD-C4D	2.78	1.28	1.23
29	KN	202	PEB	OD-C4D	2.78	1.28	1.23
30	xJ	304	PUB	OA-C1A	2.78	1.28	1.23
29	i7	202	PEB	C2A-C1A	-2.78	1.49	1.52
29	i9	202	PEB	C2A-C1A	-2.78	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	V1	202	PEB	C2C-C3C	2.78	1.45	1.37
29	VK	202	PEB	C2C-C3C	2.78	1.45	1.37
29	wL	302	PEB	OD-C4D	2.78	1.28	1.23
29	DA	202	PEB	C2C-C3C	2.78	1.45	1.37
29	DN	202	PEB	C2C-C3C	2.78	1.45	1.37
29	BA	202	PEB	C2A-C1A	-2.78	1.49	1.52
29	BN	202	PEB	C2A-C1A	-2.78	1.49	1.52
29	BQ	203	PEB	OD-C4D	2.78	1.28	1.23
29	MR	202	PEB	OD-C4D	2.78	1.28	1.23
29	A7	305	PEB	OD-C4D	2.78	1.28	1.23
29	A9	305	PEB	OD-C4D	2.78	1.28	1.23
29	XB	202	PEB	OD-C4D	2.78	1.28	1.23
29	XM	202	PEB	OD-C4D	2.78	1.28	1.23
29	BB	301	PEB	C4A-NA	-2.78	1.31	1.37
29	BM	301	PEB	C4A-NA	-2.78	1.31	1.37
29	DJ	202	PEB	OD-C4D	2.77	1.28	1.23
29	DL	202	PEB	OD-C4D	2.77	1.28	1.23
29	K5	203	PEB	C2A-C1A	-2.77	1.49	1.52
29	K8	203	PEB	C2A-C1A	-2.77	1.49	1.52
29	YJ	201	PEB	C4A-NA	-2.77	1.31	1.37
29	YL	201	PEB	C4A-NA	-2.77	1.31	1.37
29	I4	203	PEB	OD-C4D	2.77	1.28	1.23
29	wJ	302	PEB	OD-C4D	2.77	1.28	1.23
29	pJ	203	PEB	OD-C4D	2.77	1.28	1.23
29	pL	203	PEB	OD-C4D	2.77	1.28	1.23
29	gF	202	PEB	C2A-C1A	-2.77	1.49	1.52
29	gI	202	PEB	C2A-C1A	-2.77	1.49	1.52
29	PB	202	PEB	OD-C4D	2.77	1.28	1.23
29	SB	202	PEB	OD-C4D	2.77	1.28	1.23
29	PM	202	PEB	OD-C4D	2.77	1.28	1.23
29	SM	202	PEB	OD-C4D	2.77	1.28	1.23
30	yL	303	PUB	OA-C1A	2.77	1.28	1.23
31	fP	1001	CYC	C1D-CHD	2.77	1.51	1.41
29	T2	202	PEB	CHA-C1B	2.77	1.46	1.40
29	TR	202	PEB	CHA-C1B	2.77	1.46	1.40
29	fJ	203	PEB	OD-C4D	2.77	1.28	1.23
29	fL	203	PEB	OD-C4D	2.77	1.28	1.23
29	eB	202	PEB	OD-C4D	2.77	1.28	1.23
29	eM	202	PEB	OD-C4D	2.77	1.28	1.23
30	MN	403	PUB	OA-C1A	2.77	1.28	1.23
29	L8	201	PEB	C2A-C1A	-2.77	1.49	1.52
30	yJ	303	PUB	OD-C4D	2.77	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	YP	1000	CYC	C1B-C2B	2.77	1.50	1.45
29	FB	203	PEB	OD-C4D	2.77	1.28	1.23
29	FM	203	PEB	OD-C4D	2.77	1.28	1.23
29	QB	204	PEB	OD-C4D	2.77	1.28	1.23
29	aB	202	PEB	OD-C4D	2.77	1.28	1.23
29	BJ	203	PEB	OD-C4D	2.77	1.28	1.23
29	BL	203	PEB	OD-C4D	2.77	1.28	1.23
29	QM	204	PEB	OD-C4D	2.77	1.28	1.23
29	aM	202	PEB	OD-C4D	2.77	1.28	1.23
29	xL	301	PEB	CHA-C1B	2.77	1.46	1.40
29	DG	202	PEB	OD-C4D	2.77	1.28	1.23
29	DQ	202	PEB	OD-C4D	2.77	1.28	1.23
29	T2	202	PEB	C1A-NA	-2.77	1.34	1.37
29	B5	203	PEB	OD-C4D	2.77	1.28	1.23
29	a7	201	PEB	C2A-C1A	-2.77	1.49	1.52
29	a9	201	PEB	C2A-C1A	-2.77	1.49	1.52
29	AM	303	PEB	OD-C4D	2.77	1.28	1.23
29	P2	201	PEB	C1A-NA	-2.76	1.34	1.37
29	m7	201	PEB	C2A-C1A	-2.76	1.49	1.52
29	m9	201	PEB	C2A-C1A	-2.76	1.49	1.52
29	MN	404	PEB	C2A-C1A	-2.76	1.49	1.52
29	mB	203	PEB	OD-C4D	2.76	1.28	1.23
29	mM	203	PEB	OD-C4D	2.76	1.28	1.23
30	xL	304	PUB	OA-C1A	2.76	1.28	1.23
29	MQ	406	PEB	C2A-C1A	-2.76	1.49	1.52
31	DP	1001	CYC	C1D-CHD	2.76	1.51	1.41
29	A5	203	PEB	C2A-C1A	-2.76	1.49	1.52
29	A8	203	PEB	C2A-C1A	-2.76	1.49	1.52
29	D1	1002	PEB	O1C-CGC	2.76	1.31	1.22
29	JJ	203	PEB	OD-C4D	2.76	1.28	1.23
29	JL	203	PEB	OD-C4D	2.76	1.28	1.23
29	lJ	203	PEB	OD-C4D	2.76	1.28	1.23
29	lL	203	PEB	OD-C4D	2.76	1.28	1.23
31	jP	1001	CYC	C1D-CHD	2.76	1.51	1.41
29	IG	201	PEB	OD-C4D	2.76	1.28	1.23
29	IQ	201	PEB	OD-C4D	2.76	1.28	1.23
29	J7	1002	PEB	C2A-C1A	-2.76	1.49	1.52
29	TR	202	PEB	C1A-NA	-2.76	1.34	1.37
29	hJ	203	PEB	OD-C4D	2.76	1.28	1.23
29	hL	203	PEB	OD-C4D	2.76	1.28	1.23
29	JG	203	PEB	OD-C4D	2.76	1.28	1.23
29	wL	301	PEB	C1A-NA	-2.76	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H4	202	PEB	OD-C4D	2.76	1.28	1.23
29	hB	202	PEB	OD-C4D	2.76	1.28	1.23
29	hM	202	PEB	OD-C4D	2.76	1.28	1.23
29	TB	203	PEB	OD-C4D	2.76	1.28	1.23
29	jB	202	PEB	OD-C4D	2.76	1.28	1.23
29	HJ	202	PEB	OD-C4D	2.76	1.28	1.23
29	TJ	203	PEB	OD-C4D	2.76	1.28	1.23
29	HL	202	PEB	OD-C4D	2.76	1.28	1.23
29	TL	203	PEB	OD-C4D	2.76	1.28	1.23
29	TM	203	PEB	OD-C4D	2.76	1.28	1.23
29	jM	202	PEB	OD-C4D	2.76	1.28	1.23
29	NB	202	PEB	OD-C4D	2.76	1.28	1.23
29	NM	202	PEB	OD-C4D	2.76	1.28	1.23
31	nP	1001	CYC	C1D-CHD	2.76	1.51	1.41
29	MG	404	PEB	C2A-C1A	-2.76	1.49	1.52
29	cB	203	PEB	OD-C4D	2.76	1.28	1.23
29	cM	203	PEB	OD-C4D	2.76	1.28	1.23
29	D4	202	PEB	OD-C4D	2.75	1.28	1.23
29	WB	202	PEB	OD-C4D	2.75	1.28	1.23
29	DD	202	PEB	OD-C4D	2.75	1.28	1.23
29	XJ	203	PEB	OD-C4D	2.75	1.28	1.23
29	XL	203	PEB	OD-C4D	2.75	1.28	1.23
29	WM	202	PEB	OD-C4D	2.75	1.28	1.23
30	yJ	303	PUB	OA-C1A	2.75	1.28	1.23
29	C5	203	PEB	C2A-C1A	-2.75	1.49	1.52
29	R7	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	T7	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	C8	203	PEB	C2A-C1A	-2.75	1.49	1.52
29	R9	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	T9	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	fB	202	PEB	OD-C4D	2.75	1.28	1.23
29	JD	202	PEB	OD-C4D	2.75	1.28	1.23
29	fM	202	PEB	OD-C4D	2.75	1.28	1.23
29	X2	201	PEB	C1A-NA	-2.75	1.34	1.37
29	ZB	203	PEB	OD-C4D	2.75	1.28	1.23
29	ZM	203	PEB	OD-C4D	2.75	1.28	1.23
29	LQ	202	PEB	OD-C4D	2.75	1.28	1.23
29	NK	1002	PEB	C2A-C1A	-2.75	1.49	1.52
29	FG	202	PEB	OD-C4D	2.75	1.28	1.23
29	PJ	203	PEB	OD-C4D	2.75	1.28	1.23
29	bJ	203	PEB	OD-C4D	2.75	1.28	1.23
29	PL	203	PEB	OD-C4D	2.75	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	bL	203	PEB	OD-C4D	2.75	1.28	1.23
29	FQ	202	PEB	OD-C4D	2.75	1.28	1.23
31	sP	1001	CYC	C1D-CHD	2.75	1.51	1.41
29	LA	201	PEB	OD-C4D	2.75	1.28	1.23
29	LJ	202	PEB	OD-C4D	2.75	1.28	1.23
29	LL	202	PEB	OD-C4D	2.75	1.28	1.23
29	LN	201	PEB	OD-C4D	2.75	1.28	1.23
29	JQ	203	PEB	OD-C4D	2.75	1.28	1.23
29	vJ	202	PEB	OD-C4D	2.75	1.28	1.23
29	vL	202	PEB	OD-C4D	2.75	1.28	1.23
29	J4	202	PEB	OD-C4D	2.75	1.28	1.23
29	KB	202	PEB	OD-C4D	2.75	1.28	1.23
29	KM	202	PEB	OD-C4D	2.75	1.28	1.23
30	wL	304	PUB	OA-C1A	2.75	1.28	1.23
29	RJ	202	PEB	C2C-C3C	2.75	1.45	1.37
29	RL	202	PEB	C2C-C3C	2.75	1.45	1.37
30	wJ	305	PUB	OD-C4D	2.75	1.28	1.23
31	MP	1001	CYC	C1D-CHD	2.75	1.51	1.41
31	qP	1001	CYC	C1D-CHD	2.75	1.51	1.41
29	JG	202	PEB	OD-C4D	2.75	1.28	1.23
29	JQ	202	PEB	OD-C4D	2.75	1.28	1.23
29	D1	1002	PEB	C2A-C1A	-2.75	1.49	1.52
29	B8	203	PEB	OD-C4D	2.75	1.28	1.23
29	kB	203	PEB	OD-C4D	2.75	1.28	1.23
29	kM	203	PEB	OD-C4D	2.75	1.28	1.23
31	BP	1001	CYC	C1D-CHD	2.75	1.51	1.41
29	KC	202	PEB	OD-C4D	2.75	1.28	1.23
29	KE	202	PEB	OD-C4D	2.75	1.28	1.23
29	C3	202	PEB	OD-C4D	2.75	1.28	1.23
29	IB	202	PEB	OD-C4D	2.75	1.28	1.23
29	lB	202	PEB	OD-C4D	2.75	1.28	1.23
29	IM	202	PEB	OD-C4D	2.75	1.28	1.23
29	lM	202	PEB	OD-C4D	2.75	1.28	1.23
29	CO	202	PEB	OD-C4D	2.75	1.28	1.23
31	HP	1001	CYC	C1D-CHD	2.75	1.51	1.41
31	UP	1001	CYC	C1D-CHD	2.75	1.51	1.41
31	QP	1001	CYC	C1D-CHD	2.75	1.51	1.41
29	A3	202	PEB	OD-C4D	2.75	1.28	1.23
29	BD	202	PEB	OD-C4D	2.75	1.28	1.23
29	AO	202	PEB	OD-C4D	2.75	1.28	1.23
29	P7	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	P9	202	PEB	C2A-C1A	-2.75	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	eF	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	eI	202	PEB	C2A-C1A	-2.75	1.49	1.52
29	D3	203	PEB	OD-C4D	2.75	1.28	1.23
29	dB	202	PEB	OD-C4D	2.75	1.28	1.23
29	dM	202	PEB	OD-C4D	2.75	1.28	1.23
29	DO	203	PEB	OD-C4D	2.75	1.28	1.23
29	nJ	202	PEB	C2C-C3C	2.74	1.45	1.37
29	nL	202	PEB	C2C-C3C	2.74	1.45	1.37
29	G3	202	PEB	OD-C4D	2.74	1.28	1.23
29	GO	202	PEB	OD-C4D	2.74	1.28	1.23
29	aF	202	PEB	C2A-C1A	-2.74	1.49	1.52
29	aI	202	PEB	C2A-C1A	-2.74	1.49	1.52
29	NK	1002	PEB	O1C-CGC	2.74	1.31	1.22
29	MB	202	PEB	OD-C4D	2.74	1.28	1.23
29	UB	202	PEB	OD-C4D	2.74	1.28	1.23
29	iB	203	PEB	OD-C4D	2.74	1.28	1.23
29	rJ	203	PEB	OD-C4D	2.74	1.28	1.23
29	rL	203	PEB	OD-C4D	2.74	1.28	1.23
29	MM	202	PEB	OD-C4D	2.74	1.28	1.23
29	iM	203	PEB	OD-C4D	2.74	1.28	1.23
29	MQ	401	PEB	OD-C4D	2.74	1.28	1.23
31	oP	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	L1	1002	PEB	OD-C4D	2.74	1.28	1.23
29	JA	201	PEB	OD-C4D	2.74	1.28	1.23
29	EG	202	PEB	OD-C4D	2.74	1.28	1.23
29	LK	1002	PEB	OD-C4D	2.74	1.28	1.23
29	JN	201	PEB	OD-C4D	2.74	1.28	1.23
29	EQ	202	PEB	OD-C4D	2.74	1.28	1.23
29	FJ	202	PEB	C2C-C3C	2.74	1.45	1.37
29	FL	202	PEB	C2C-C3C	2.74	1.45	1.37
29	DQ	203	PEB	OD-C4D	2.74	1.28	1.23
31	hP	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	BG	202	PEB	OD-C4D	2.74	1.28	1.23
29	DG	203	PEB	OD-C4D	2.74	1.28	1.23
29	xJ	302	PEB	OD-C4D	2.74	1.28	1.23
29	BQ	202	PEB	OD-C4D	2.74	1.28	1.23
31	kP	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	WJ	201	PEB	C2C-C3C	2.74	1.45	1.37
29	WL	201	PEB	C2C-C3C	2.74	1.45	1.37
29	ZJ	203	PEB	OD-C4D	2.74	1.28	1.23
29	ZL	203	PEB	OD-C4D	2.74	1.28	1.23
29	XR	202	PEB	C1A-NA	-2.74	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	c1	202	PEB	CHA-C1B	2.74	1.46	1.40
29	cK	202	PEB	CHA-C1B	2.74	1.46	1.40
29	HA	201	PEB	OD-C4D	2.74	1.28	1.23
29	HN	201	PEB	OD-C4D	2.74	1.28	1.23
31	XP	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	wL	301	PEB	CHA-C1B	2.74	1.46	1.40
29	F4	202	PEB	OD-C4D	2.74	1.28	1.23
29	K5	201	PEB	OD-C4D	2.74	1.28	1.23
29	K8	201	PEB	OD-C4D	2.74	1.28	1.23
29	DA	203	PEB	OD-C4D	2.74	1.28	1.23
29	FD	202	PEB	OD-C4D	2.74	1.28	1.23
29	DN	203	PEB	OD-C4D	2.74	1.28	1.23
29	H7	1002	PEB	C2A-C1A	-2.74	1.49	1.52
29	H9	1002	PEB	C2A-C1A	-2.74	1.49	1.52
31	FF	1001	CYC	C1B-NB	-2.74	1.33	1.37
31	FI	1001	CYC	C1B-NB	-2.74	1.33	1.37
29	CC	201	PEB	OD-C4D	2.74	1.28	1.23
29	CE	201	PEB	OD-C4D	2.74	1.28	1.23
31	1P	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	dJ	203	PEB	OD-C4D	2.74	1.28	1.23
29	dL	203	PEB	OD-C4D	2.74	1.28	1.23
29	IJ	203	PEB	C2C-C3C	2.74	1.45	1.37
29	IL	203	PEB	C2C-C3C	2.74	1.45	1.37
29	LB	203	PEB	OD-C4D	2.74	1.28	1.23
29	LM	203	PEB	OD-C4D	2.74	1.28	1.23
31	LF	1001	CYC	C1B-NB	-2.74	1.33	1.37
31	LI	1001	CYC	C1B-NB	-2.74	1.33	1.37
29	VF	202	PEB	C2A-C1A	-2.74	1.49	1.52
29	VI	202	PEB	C2A-C1A	-2.74	1.49	1.52
31	CK	1001	CYC	C2C-C1C	-2.74	1.49	1.52
29	N1	1002	PEB	O1C-CGC	2.74	1.31	1.22
29	RB	203	PEB	OD-C4D	2.74	1.28	1.23
29	RM	203	PEB	OD-C4D	2.74	1.28	1.23
29	AJ	203	PEB	C2C-C3C	2.74	1.45	1.37
29	AL	203	PEB	C2C-C3C	2.74	1.45	1.37
29	K3	202	PEB	OD-C4D	2.74	1.28	1.23
29	OB	202	PEB	OD-C4D	2.74	1.28	1.23
29	HD	202	PEB	OD-C4D	2.74	1.28	1.23
29	LD	202	PEB	OD-C4D	2.74	1.28	1.23
29	CG	201	PEB	OD-C4D	2.74	1.28	1.23
29	OM	202	PEB	OD-C4D	2.74	1.28	1.23
29	KO	202	PEB	OD-C4D	2.74	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CQ	201	PEB	OD-C4D	2.74	1.28	1.23
30	MQ	404	PUB	OD-C4D	2.74	1.28	1.23
29	AF	301	PEB	OD-C4D	2.74	1.28	1.23
29	AI	301	PEB	OD-C4D	2.74	1.28	1.23
29	E3	202	PEB	OD-C4D	2.74	1.28	1.23
29	EC	201	PEB	OD-C4D	2.74	1.28	1.23
29	EE	201	PEB	OD-C4D	2.74	1.28	1.23
29	EO	202	PEB	OD-C4D	2.74	1.28	1.23
31	wP	1001	CYC	C1D-CHD	2.74	1.51	1.41
29	mF	202	PEB	C2A-C1A	-2.74	1.49	1.52
29	mI	202	PEB	C2A-C1A	-2.74	1.49	1.52
29	F5	203	PEB	OD-C4D	2.74	1.28	1.23
29	F8	203	PEB	OD-C4D	2.74	1.28	1.23
29	LG	202	PEB	OD-C4D	2.74	1.28	1.23
29	LQ	201	PEB	OD-C4D	2.74	1.28	1.23
29	I5	201	PEB	OD-C4D	2.73	1.28	1.23
29	I8	201	PEB	OD-C4D	2.73	1.28	1.23
29	YB	203	PEB	OD-C4D	2.73	1.28	1.23
29	YM	203	PEB	OD-C4D	2.73	1.28	1.23
31	eP	1001	CYC	C1B-C2B	2.73	1.50	1.45
31	IP	1001	CYC	C1D-CHD	2.73	1.51	1.41
29	GC	201	PEB	OD-C4D	2.73	1.28	1.23
29	GE	201	PEB	OD-C4D	2.73	1.28	1.23
29	CG	202	PEB	OD-C4D	2.73	1.28	1.23
29	GG	202	PEB	OD-C4D	2.73	1.28	1.23
29	NK	1002	PEB	OD-C4D	2.73	1.28	1.23
29	CQ	202	PEB	OD-C4D	2.73	1.28	1.23
29	GQ	202	PEB	OD-C4D	2.73	1.28	1.23
31	mP	1001	CYC	C1B-C2B	2.73	1.50	1.45
29	KG	201	PEB	OD-C4D	2.73	1.28	1.23
29	RJ	203	PEB	OD-C4D	2.73	1.28	1.23
29	RL	203	PEB	OD-C4D	2.73	1.28	1.23
29	KQ	201	PEB	OD-C4D	2.73	1.28	1.23
31	JF	1001	CYC	C1B-NB	-2.73	1.33	1.37
31	JI	1001	CYC	C1B-NB	-2.73	1.33	1.37
31	OP	1001	CYC	C1D-CHD	2.73	1.51	1.41
29	L5	203	PEB	OD-C4D	2.73	1.28	1.23
29	BA	203	PEB	OD-C4D	2.73	1.28	1.23
29	BN	203	PEB	OD-C4D	2.73	1.28	1.23
30	xL	305	PUB	OD-C4D	2.73	1.28	1.23
29	j1	203	PEB	CHA-C1B	2.73	1.46	1.40
29	jK	203	PEB	CHA-C1B	2.73	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	uJ	201	PEB	C2C-C3C	2.73	1.45	1.37
29	uL	201	PEB	C2C-C3C	2.73	1.45	1.37
29	XJ	202	PEB	C2C-C3C	2.73	1.45	1.37
29	XL	202	PEB	C2C-C3C	2.73	1.45	1.37
30	AB	305	PUB	OD-C4D	2.73	1.28	1.23
29	k1	203	PEB	OD-C4D	2.73	1.28	1.23
29	GG	201	PEB	OD-C4D	2.73	1.28	1.23
29	IG	202	PEB	OD-C4D	2.73	1.28	1.23
29	kK	203	PEB	OD-C4D	2.73	1.28	1.23
29	GQ	201	PEB	OD-C4D	2.73	1.28	1.23
29	IQ	202	PEB	OD-C4D	2.73	1.28	1.23
29	HK	1002	PEB	O1C-CGC	2.73	1.31	1.22
31	NF	1001	CYC	C1B-NB	-2.73	1.33	1.37
31	NI	1001	CYC	C1B-NB	-2.73	1.33	1.37
31	FP	1001	CYC	C1D-CHD	2.73	1.51	1.41
29	A7	304	PEB	OD-C4D	2.73	1.28	1.23
29	A9	304	PEB	OD-C4D	2.73	1.28	1.23
29	gF	202	PEB	C2C-C3C	2.73	1.45	1.37
29	gI	202	PEB	C2C-C3C	2.73	1.45	1.37
29	L5	201	PEB	C2A-C1A	-2.73	1.49	1.52
29	D7	1002	PEB	C2A-C1A	-2.73	1.49	1.52
29	D9	1002	PEB	C2A-C1A	-2.73	1.49	1.52
29	H3	203	PEB	OD-C4D	2.73	1.28	1.23
29	HO	203	PEB	OD-C4D	2.73	1.28	1.23
29	DA	201	PEB	OD-C4D	2.73	1.28	1.23
29	tJ	202	PEB	OD-C4D	2.73	1.28	1.23
29	tL	202	PEB	OD-C4D	2.73	1.28	1.23
29	DN	201	PEB	OD-C4D	2.73	1.28	1.23
31	tP	1001	CYC	C1B-C2B	2.73	1.50	1.45
29	J1	1002	PEB	O1C-CGC	2.73	1.31	1.22
29	JK	1002	PEB	O1C-CGC	2.73	1.31	1.22
29	k1	202	PEB	CHA-C1B	2.73	1.46	1.40
29	kK	202	PEB	CHA-C1B	2.73	1.46	1.40
30	AM	305	PUB	OD-C4D	2.73	1.28	1.23
31	GP	1001	CYC	C1B-C2B	2.73	1.50	1.45
29	dF	201	PEB	C2A-C1A	-2.73	1.49	1.52
29	dI	201	PEB	C2A-C1A	-2.73	1.49	1.52
29	G5	202	PEB	OD-C4D	2.73	1.28	1.23
29	G8	203	PEB	OD-C4D	2.73	1.28	1.23
29	P1	202	PEB	CHA-C1B	2.73	1.46	1.40
29	PK	202	PEB	CHA-C1B	2.73	1.46	1.40
29	A1	303	PEB	C2A-C1A	-2.73	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	L9	1002	PEB	C2A-C1A	-2.73	1.49	1.52
29	AK	303	PEB	C2A-C1A	-2.73	1.49	1.52
29	L3	202	PEB	OD-C4D	2.73	1.28	1.23
29	L4	202	PEB	OD-C4D	2.73	1.28	1.23
29	NJ	203	PEB	OD-C4D	2.73	1.28	1.23
29	NL	203	PEB	OD-C4D	2.73	1.28	1.23
29	LO	202	PEB	OD-C4D	2.73	1.28	1.23
29	PJ	202	PEB	C2C-C3C	2.73	1.45	1.37
29	PL	202	PEB	C2C-C3C	2.73	1.45	1.37
31	uP	1001	CYC	C1D-CHD	2.73	1.51	1.41
29	NJ	202	PEB	C2C-C3C	2.73	1.45	1.37
29	NL	202	PEB	C2C-C3C	2.73	1.45	1.37
29	i1	203	PEB	OD-C4D	2.73	1.28	1.23
29	nJ	203	PEB	OD-C4D	2.73	1.28	1.23
29	iK	203	PEB	OD-C4D	2.73	1.28	1.23
29	nL	203	PEB	OD-C4D	2.73	1.28	1.23
30	AF	302	PUB	OD-C4D	2.73	1.28	1.23
30	AI	302	PUB	OD-C4D	2.73	1.28	1.23
31	TP	1001	CYC	C1B-C2B	2.73	1.50	1.45
29	mF	202	PEB	C2C-C3C	2.73	1.45	1.37
29	mI	202	PEB	C2C-C3C	2.73	1.45	1.37
29	JJ	202	PEB	C2C-C3C	2.73	1.45	1.37
29	JL	202	PEB	C2C-C3C	2.73	1.45	1.37
29	J1	1002	PEB	C2A-C1A	-2.73	1.49	1.52
29	V7	202	PEB	C2A-C1A	-2.73	1.49	1.52
29	V9	202	PEB	C2A-C1A	-2.73	1.49	1.52
29	JK	1002	PEB	C2A-C1A	-2.73	1.49	1.52
29	D1	1002	PEB	OD-C4D	2.72	1.28	1.23
29	B4	202	PEB	OD-C4D	2.72	1.28	1.23
29	BA	201	PEB	OD-C4D	2.72	1.28	1.23
29	CB	202	PEB	OD-C4D	2.72	1.28	1.23
29	CM	202	PEB	OD-C4D	2.72	1.28	1.23
29	BN	201	PEB	OD-C4D	2.72	1.28	1.23
29	H1	1002	PEB	O1C-CGC	2.72	1.31	1.22
29	c7	202	PEB	C2A-C1A	-2.72	1.49	1.52
29	c9	202	PEB	C2A-C1A	-2.72	1.49	1.52
29	xJ	303	PEB	C2A-C1A	-2.72	1.49	1.52
29	NO	202	PEB	C2A-C1A	-2.72	1.49	1.52
29	lJ	202	PEB	C2C-C3C	2.72	1.45	1.37
29	lL	202	PEB	C2C-C3C	2.72	1.45	1.37
29	FA	202	PEB	CHA-C1B	2.72	1.46	1.40
29	FN	202	PEB	CHA-C1B	2.72	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	G8	202	PEB	OD-C4D	2.72	1.28	1.23
29	AG	202	PEB	OD-C4D	2.72	1.28	1.23
29	AQ	202	PEB	OD-C4D	2.72	1.28	1.23
29	GB	202	PEB	OD-C4D	2.72	1.28	1.23
29	HK	1002	PEB	OD-C4D	2.72	1.28	1.23
29	GM	202	PEB	OD-C4D	2.72	1.28	1.23
29	DK	1002	PEB	O1C-CGC	2.72	1.31	1.22
29	JB	203	PEB	OD-C4D	2.72	1.28	1.23
29	JM	203	PEB	OD-C4D	2.72	1.28	1.23
29	UF	201	PEB	C2A-C1A	-2.72	1.49	1.52
29	UI	201	PEB	C2A-C1A	-2.72	1.49	1.52
29	B3	203	PEB	OD-C4D	2.72	1.28	1.23
29	BO	203	PEB	OD-C4D	2.72	1.28	1.23
29	rJ	202	PEB	C2C-C3C	2.72	1.45	1.37
29	rL	202	PEB	C2C-C3C	2.72	1.45	1.37
29	YF	203	PEB	OD-C4D	2.72	1.28	1.23
29	YI	203	PEB	OD-C4D	2.72	1.28	1.23
30	xJ	305	PUB	OD-C4D	2.72	1.28	1.23
29	LG	203	PEB	OD-C4D	2.72	1.28	1.23
29	BJ	202	PEB	C2C-C3C	2.72	1.45	1.37
29	BL	202	PEB	C2C-C3C	2.72	1.45	1.37
29	e1	202	PEB	CHA-C1B	2.72	1.46	1.40
29	eK	202	PEB	CHA-C1B	2.72	1.46	1.40
29	H5	201	PEB	OD-C4D	2.72	1.28	1.23
29	A5	201	PEB	OD-C4D	2.72	1.28	1.23
29	A8	201	PEB	OD-C4D	2.72	1.28	1.23
29	L1	1002	PEB	O1C-CGC	2.72	1.31	1.22
29	LK	1002	PEB	O1C-CGC	2.72	1.31	1.22
29	aF	202	PEB	C2C-C3C	2.72	1.45	1.37
29	aI	202	PEB	C2C-C3C	2.72	1.45	1.37
29	AG	201	PEB	OD-C4D	2.72	1.28	1.23
29	KG	202	PEB	OD-C4D	2.72	1.28	1.23
29	AQ	201	PEB	OD-C4D	2.72	1.28	1.23
29	KQ	202	PEB	OD-C4D	2.72	1.28	1.23
29	VB	203	PEB	OD-C4D	2.72	1.28	1.23
29	VJ	202	PEB	OD-C4D	2.72	1.28	1.23
29	VL	202	PEB	OD-C4D	2.72	1.28	1.23
29	VM	203	PEB	OD-C4D	2.72	1.28	1.23
31	SP	1001	CYC	C1D-CHD	2.72	1.51	1.41
29	Z1	201	PEB	CHA-C1B	2.72	1.46	1.40
29	ZK	201	PEB	CHA-C1B	2.72	1.46	1.40
29	a1	202	PEB	CHA-C1B	2.72	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	aK	202	PEB	CHA-C1B	2.72	1.46	1.40
29	N1	1002	PEB	OD-C4D	2.72	1.28	1.23
29	e1	203	PEB	OD-C4D	2.72	1.28	1.23
29	eK	203	PEB	OD-C4D	2.72	1.28	1.23
30	A1	305	PUB	OD-C4D	2.72	1.28	1.23
30	AK	305	PUB	OD-C4D	2.72	1.28	1.23
29	J9	1002	PEB	C2A-C1A	-2.72	1.49	1.52
29	PF	202	PEB	C2C-C3C	2.72	1.45	1.37
29	PI	202	PEB	C2C-C3C	2.72	1.45	1.37
29	H1	1002	PEB	OD-C4D	2.72	1.28	1.23
29	a1	203	PEB	OD-C4D	2.72	1.28	1.23
29	HG	202	PEB	OD-C4D	2.72	1.28	1.23
29	aK	203	PEB	OD-C4D	2.72	1.28	1.23
29	HQ	202	PEB	OD-C4D	2.72	1.28	1.23
29	Y7	202	PEB	C2A-C1A	-2.72	1.49	1.52
29	Y9	202	PEB	C2A-C1A	-2.72	1.49	1.52
29	Q2	201	PEB	C4A-NA	-2.71	1.31	1.37
29	fJ	202	PEB	C2C-C3C	2.71	1.45	1.37
29	fL	202	PEB	C2C-C3C	2.71	1.45	1.37
31	HF	1001	CYC	C1B-NB	-2.71	1.33	1.37
31	HI	1001	CYC	C1B-NB	-2.71	1.33	1.37
31	gP	1001	CYC	C1B-C2B	2.71	1.50	1.45
29	hJ	202	PEB	C2C-C3C	2.71	1.45	1.37
29	hL	202	PEB	C2C-C3C	2.71	1.45	1.37
29	HB	203	PEB	OD-C4D	2.71	1.28	1.23
29	HM	203	PEB	OD-C4D	2.71	1.28	1.23
31	K1	1001	CYC	C2C-C1C	-2.71	1.49	1.52
31	KK	1001	CYC	C2C-C1C	-2.71	1.49	1.52
29	DA	202	PEB	CHA-C1B	2.71	1.46	1.40
29	DN	202	PEB	CHA-C1B	2.71	1.46	1.40
29	R1	203	PEB	OD-C4D	2.71	1.28	1.23
29	T1	202	PEB	OD-C4D	2.71	1.28	1.23
29	c1	203	PEB	OD-C4D	2.71	1.28	1.23
29	B8	202	PEB	OD-C4D	2.71	1.28	1.23
29	RK	203	PEB	OD-C4D	2.71	1.28	1.23
29	TK	202	PEB	OD-C4D	2.71	1.28	1.23
29	cK	203	PEB	OD-C4D	2.71	1.28	1.23
29	wJ	301	PEB	CHA-C1B	2.71	1.46	1.40
29	F1	1002	PEB	OD-C4D	2.71	1.28	1.23
29	FK	1002	PEB	OD-C4D	2.71	1.28	1.23
29	AF	304	PEB	C2A-C1A	-2.71	1.49	1.52
29	AI	304	PEB	C2A-C1A	-2.71	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	NP	1001	CYC	C1B-C2B	2.71	1.50	1.45
29	pJ	202	PEB	C2C-C3C	2.71	1.45	1.37
29	pL	202	PEB	C2C-C3C	2.71	1.45	1.37
29	S2	201	PEB	OD-C4D	2.71	1.28	1.23
29	EG	201	PEB	OD-C4D	2.71	1.28	1.23
29	EQ	201	PEB	OD-C4D	2.71	1.28	1.23
29	L8	203	PEB	OD-C4D	2.71	1.28	1.23
29	jJ	203	PEB	OD-C4D	2.71	1.28	1.23
29	jL	203	PEB	OD-C4D	2.71	1.28	1.23
29	HA	203	PEB	OD-C4D	2.71	1.28	1.23
29	HN	203	PEB	OD-C4D	2.71	1.28	1.23
29	R1	202	PEB	CHA-C1B	2.71	1.46	1.40
29	RK	202	PEB	CHA-C1B	2.71	1.46	1.40
29	wJ	303	PEB	C2A-C1A	-2.71	1.49	1.52
29	AC	201	PEB	OD-C4D	2.71	1.28	1.23
29	HC	201	PEB	OD-C4D	2.71	1.28	1.23
29	AE	201	PEB	OD-C4D	2.71	1.28	1.23
29	HE	201	PEB	OD-C4D	2.71	1.28	1.23
29	I3	202	PEB	OD-C4D	2.71	1.28	1.23
29	IO	202	PEB	OD-C4D	2.71	1.28	1.23
29	J1	1002	PEB	OD-C4D	2.71	1.28	1.23
29	DB	203	PEB	OD-C4D	2.71	1.28	1.23
29	JK	1002	PEB	OD-C4D	2.71	1.28	1.23
29	DM	203	PEB	OD-C4D	2.71	1.28	1.23
29	i7	203	PEB	OD-C4D	2.71	1.28	1.23
29	i9	203	PEB	OD-C4D	2.71	1.28	1.23
29	DC	201	PEB	OD-C4D	2.71	1.28	1.23
29	DE	201	PEB	OD-C4D	2.71	1.28	1.23
29	YF	202	PEB	C2C-C3C	2.71	1.45	1.37
29	YI	202	PEB	C2C-C3C	2.71	1.45	1.37
29	LA	203	PEB	OD-C4D	2.71	1.28	1.23
29	LN	203	PEB	OD-C4D	2.71	1.28	1.23
29	iF	202	PEB	C2A-C1A	-2.71	1.49	1.52
29	iI	202	PEB	C2A-C1A	-2.71	1.49	1.52
29	F1	1002	PEB	O1C-CGC	2.71	1.31	1.22
29	FK	1002	PEB	O1C-CGC	2.71	1.31	1.22
29	iF	202	PEB	C2C-C3C	2.71	1.45	1.37
29	iI	202	PEB	C2C-C3C	2.71	1.45	1.37
29	R7	203	PEB	OD-C4D	2.71	1.28	1.23
29	R9	203	PEB	OD-C4D	2.71	1.28	1.23
29	H8	202	PEB	OD-C4D	2.71	1.28	1.23
31	I1	1001	CYC	C2C-C1C	-2.71	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	DK	1002	PEB	OD-C4D	2.71	1.28	1.23
31	RP	1001	CYC	C1B-C2B	2.71	1.50	1.45
29	Y1	202	PEB	OD-C4D	2.71	1.28	1.23
29	YK	202	PEB	OD-C4D	2.71	1.28	1.23
29	AM	301	PEB	OD-C4D	2.71	1.28	1.23
29	N1	1002	PEB	C2A-C1A	-2.71	1.49	1.52
29	OF	203	PEB	C2C-C3C	2.71	1.45	1.37
29	OI	203	PEB	C2C-C3C	2.71	1.45	1.37
29	U1	201	PEB	CHA-C1B	2.71	1.46	1.40
29	UK	201	PEB	CHA-C1B	2.71	1.46	1.40
29	HG	203	PEB	OD-C4D	2.71	1.28	1.23
29	V1	203	PEB	OD-C4D	2.71	1.28	1.23
29	VK	203	PEB	OD-C4D	2.71	1.28	1.23
29	AB	301	PEB	OD-C4D	2.70	1.28	1.23
29	LG	201	PEB	OD-C4D	2.70	1.28	1.23
29	MQ	402	PEB	OD-C4D	2.70	1.28	1.23
29	V2	202	PEB	C1A-NA	-2.70	1.34	1.37
29	VR	202	PEB	C1A-NA	-2.70	1.34	1.37
29	FA	201	PEB	OD-C4D	2.70	1.28	1.23
29	FN	201	PEB	OD-C4D	2.70	1.28	1.23
29	VF	202	PEB	C2C-C3C	2.70	1.45	1.37
29	VI	202	PEB	C2C-C3C	2.70	1.45	1.37
29	T7	203	PEB	OD-C4D	2.70	1.28	1.23
29	T9	203	PEB	OD-C4D	2.70	1.28	1.23
29	IC	201	PEB	OD-C4D	2.70	1.28	1.23
29	IE	201	PEB	OD-C4D	2.70	1.28	1.23
29	JA	202	PEB	CHA-C1B	2.70	1.46	1.40
29	JN	202	PEB	CHA-C1B	2.70	1.46	1.40
29	dJ	202	PEB	C2C-C3C	2.70	1.45	1.37
29	dL	202	PEB	C2C-C3C	2.70	1.45	1.37
29	jJ	202	PEB	C2C-C3C	2.70	1.45	1.37
29	jL	202	PEB	C2C-C3C	2.70	1.45	1.37
29	SR	201	PEB	OD-C4D	2.70	1.28	1.23
29	HA	202	PEB	CHA-C1B	2.70	1.46	1.40
29	HN	202	PEB	CHA-C1B	2.70	1.46	1.40
29	dF	201	PEB	C2C-C3C	2.70	1.45	1.37
29	dI	201	PEB	C2C-C3C	2.70	1.45	1.37
29	ZJ	202	PEB	C2C-C3C	2.70	1.45	1.37
29	ZL	202	PEB	C2C-C3C	2.70	1.45	1.37
29	sJ	203	PEB	C2C-C3C	2.70	1.45	1.37
29	sL	203	PEB	C2C-C3C	2.70	1.45	1.37
29	m7	202	PEB	C2A-C1A	-2.70	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	m9	202	PEB	C2A-C1A	-2.70	1.49	1.52
29	LA	202	PEB	CHA-C1B	2.70	1.46	1.40
29	LN	202	PEB	CHA-C1B	2.70	1.46	1.40
29	HJ	201	PEB	C2C-C3C	2.70	1.45	1.37
29	HL	201	PEB	C2C-C3C	2.70	1.45	1.37
29	KA	201	PEB	OD-C4D	2.70	1.28	1.23
29	KN	201	PEB	OD-C4D	2.70	1.28	1.23
30	MG	402	PUB	OD-C4D	2.70	1.28	1.23
29	i1	202	PEB	CHA-C1B	2.70	1.46	1.40
29	iK	202	PEB	CHA-C1B	2.70	1.46	1.40
29	bJ	202	PEB	C2C-C3C	2.70	1.45	1.37
29	bL	202	PEB	C2C-C3C	2.70	1.45	1.37
29	xL	302	PEB	OD-C4D	2.70	1.28	1.23
29	OF	203	PEB	C2A-C1A	-2.70	1.49	1.52
29	OI	203	PEB	C2A-C1A	-2.70	1.49	1.52
29	eF	202	PEB	C2C-C3C	2.70	1.45	1.37
29	eI	202	PEB	C2C-C3C	2.70	1.45	1.37
29	V1	202	PEB	CHA-C1B	2.70	1.46	1.40
29	VK	202	PEB	CHA-C1B	2.70	1.46	1.40
29	G5	203	PEB	OD-C4D	2.70	1.28	1.23
29	g1	202	PEB	CHA-C1B	2.70	1.46	1.40
29	gK	202	PEB	CHA-C1B	2.70	1.46	1.40
29	AA	201	PEB	OD-C4D	2.70	1.28	1.23
29	AN	201	PEB	OD-C4D	2.70	1.28	1.23
31	vP	1001	CYC	C1B-C2B	2.70	1.50	1.45
29	TJ	202	PEB	C2C-C3C	2.70	1.45	1.37
29	TL	202	PEB	C2C-C3C	2.70	1.45	1.37
29	m7	203	PEB	OD-C4D	2.70	1.28	1.23
29	m9	203	PEB	OD-C4D	2.70	1.28	1.23
29	JD	202	PEB	C4A-NA	-2.70	1.31	1.37
29	g1	203	PEB	OD-C4D	2.69	1.28	1.23
29	gB	203	PEB	OD-C4D	2.69	1.28	1.23
29	gK	203	PEB	OD-C4D	2.69	1.28	1.23
29	gM	203	PEB	OD-C4D	2.69	1.28	1.23
30	MQ	405	PUB	OA-C1A	2.69	1.28	1.23
29	F3	203	PEB	OD-C4D	2.69	1.28	1.23
29	FC	201	PEB	OD-C4D	2.69	1.28	1.23
29	FE	201	PEB	OD-C4D	2.69	1.28	1.23
29	MG	404	PEB	OD-C4D	2.69	1.28	1.23
29	FO	203	PEB	OD-C4D	2.69	1.28	1.23
30	MG	403	PUB	OA-C1A	2.69	1.28	1.23
29	I5	203	PEB	OD-C4D	2.69	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I8	203	PEB	OD-C4D	2.69	1.28	1.23
29	kF	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	kI	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	M3	201	PEB	OD-C4D	2.69	1.28	1.23
29	F5	202	PEB	OD-C4D	2.69	1.28	1.23
29	F8	202	PEB	OD-C4D	2.69	1.28	1.23
29	MO	201	PEB	OD-C4D	2.69	1.28	1.23
30	QB	201	PUB	OA-C1A	2.69	1.28	1.23
30	QM	201	PUB	OA-C1A	2.69	1.28	1.23
29	Y7	203	PEB	OD-C4D	2.69	1.28	1.23
29	Y9	203	PEB	OD-C4D	2.69	1.28	1.23
29	O7	202	PEB	OD-C4D	2.69	1.28	1.23
29	O9	202	PEB	OD-C4D	2.69	1.28	1.23
29	L1	1002	PEB	C2A-C1A	-2.69	1.49	1.52
29	YF	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	YI	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	LK	1002	PEB	C2A-C1A	-2.69	1.49	1.52
31	PP	1001	CYC	C1B-C2B	2.69	1.50	1.45
29	FA	203	PEB	OD-C4D	2.69	1.28	1.23
29	FN	203	PEB	OD-C4D	2.69	1.28	1.23
29	aF	203	PEB	OD-C4D	2.69	1.28	1.23
29	aI	203	PEB	OD-C4D	2.69	1.28	1.23
29	BA	202	PEB	CHA-C1B	2.69	1.46	1.40
29	BN	202	PEB	CHA-C1B	2.69	1.46	1.40
29	R2	202	PEB	C1A-NA	-2.69	1.34	1.37
29	f7	202	PEB	OD-C4D	2.69	1.28	1.23
29	f9	202	PEB	OD-C4D	2.69	1.28	1.23
29	J3	203	PEB	OD-C4D	2.69	1.28	1.23
29	l7	202	PEB	OD-C4D	2.69	1.28	1.23
29	l9	202	PEB	OD-C4D	2.69	1.28	1.23
29	JO	203	PEB	OD-C4D	2.69	1.28	1.23
29	L7	1002	PEB	C2A-C1A	-2.69	1.49	1.52
29	IA	201	PEB	OD-C4D	2.69	1.28	1.23
29	BC	201	PEB	OD-C4D	2.69	1.28	1.23
29	BE	201	PEB	OD-C4D	2.69	1.28	1.23
29	IN	201	PEB	OD-C4D	2.69	1.28	1.23
29	JC	201	PEB	OD-C4D	2.69	1.28	1.23
29	JE	201	PEB	OD-C4D	2.69	1.28	1.23
29	PF	203	PEB	OD-C4D	2.69	1.28	1.23
29	PI	203	PEB	OD-C4D	2.69	1.28	1.23
31	J9	1001	CYC	C3D-C2D	2.69	1.45	1.37
29	m1	202	PEB	OD-C4D	2.69	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	E4	201	PEB	OD-C4D	2.69	1.28	1.23
29	mK	202	PEB	OD-C4D	2.69	1.28	1.23
29	C5	203	PEB	OD-C4D	2.69	1.28	1.23
29	C8	203	PEB	OD-C4D	2.69	1.28	1.23
31	EP	1001	CYC	C1B-C2B	2.69	1.49	1.45
30	A7	303	PUB	OA-C1A	2.69	1.28	1.23
30	A9	303	PUB	OA-C1A	2.69	1.28	1.23
31	I7	1001	CYC	OB-C4B	2.69	1.28	1.23
31	I9	1001	CYC	OB-C4B	2.69	1.28	1.23
29	A5	203	PEB	OD-C4D	2.69	1.28	1.23
29	A8	203	PEB	OD-C4D	2.69	1.28	1.23
29	JC	201	PEB	C4B-C3B	2.69	1.50	1.45
29	JE	201	PEB	C4B-C3B	2.69	1.50	1.45
29	M3	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	MO	202	PEB	C2A-C1A	-2.69	1.49	1.52
29	e7	203	PEB	OD-C4D	2.69	1.28	1.23
29	e9	203	PEB	OD-C4D	2.69	1.28	1.23
29	B5	202	PEB	OD-C4D	2.68	1.28	1.23
29	kF	202	PEB	C2C-C3C	2.68	1.45	1.37
29	kI	202	PEB	C2C-C3C	2.68	1.45	1.37
29	j7	202	PEB	OD-C4D	2.68	1.28	1.23
29	j9	202	PEB	OD-C4D	2.68	1.28	1.23
29	HQ	203	PEB	OD-C4D	2.68	1.28	1.23
29	k7	203	PEB	OD-C4D	2.68	1.28	1.23
29	B8	201	PEB	OD-C4D	2.68	1.28	1.23
29	k9	203	PEB	OD-C4D	2.68	1.28	1.23
29	K5	203	PEB	OD-C4D	2.68	1.28	1.23
29	c7	203	PEB	OD-C4D	2.68	1.28	1.23
29	K8	203	PEB	OD-C4D	2.68	1.28	1.23
29	c9	203	PEB	OD-C4D	2.68	1.28	1.23
29	MQ	406	PEB	OD-C4D	2.68	1.28	1.23
29	H4	202	PEB	C4A-NA	-2.68	1.31	1.37
29	HD	202	PEB	C4A-NA	-2.68	1.31	1.37
31	M1	1001	CYC	C2C-C1C	-2.68	1.49	1.52
31	MK	1001	CYC	C2C-C1C	-2.68	1.49	1.52
29	UF	201	PEB	C2C-C3C	2.68	1.45	1.37
29	UI	201	PEB	C2C-C3C	2.68	1.45	1.37
29	S7	202	PEB	OD-C4D	2.68	1.28	1.23
29	S9	202	PEB	OD-C4D	2.68	1.28	1.23
29	FD	201	PEB	C2C-C3C	2.68	1.45	1.37
31	yP	1001	CYC	C1D-CHD	2.68	1.51	1.41
29	F3	201	PEB	OD-C4D	2.68	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FO	201	PEB	OD-C4D	2.68	1.28	1.23
29	C5	201	PEB	OD-C4D	2.68	1.28	1.23
29	Q7	202	PEB	OD-C4D	2.68	1.28	1.23
29	C8	201	PEB	OD-C4D	2.68	1.28	1.23
29	Q9	202	PEB	OD-C4D	2.68	1.28	1.23
29	cB	202	PEB	OD-C4D	2.68	1.28	1.23
29	cM	202	PEB	OD-C4D	2.68	1.28	1.23
29	eF	203	PEB	OD-C4D	2.68	1.28	1.23
29	eI	203	PEB	OD-C4D	2.68	1.28	1.23
29	JA	203	PEB	OD-C4D	2.68	1.28	1.23
29	JN	203	PEB	OD-C4D	2.68	1.28	1.23
29	DG	201	PEB	OD-C4D	2.68	1.28	1.23
29	DQ	201	PEB	OD-C4D	2.68	1.28	1.23
31	WP	1001	CYC	C1D-CHD	2.68	1.51	1.41
29	cF	202	PEB	OD-C4D	2.68	1.28	1.23
29	FG	201	PEB	OD-C4D	2.68	1.28	1.23
29	cI	202	PEB	OD-C4D	2.68	1.28	1.23
29	FQ	201	PEB	OD-C4D	2.68	1.28	1.23
29	HG	201	PEB	OD-C4D	2.68	1.28	1.23
29	HQ	201	PEB	OD-C4D	2.68	1.28	1.23
29	P1	203	PEB	OD-C4D	2.68	1.28	1.23
29	P7	203	PEB	OD-C4D	2.68	1.28	1.23
29	P9	203	PEB	OD-C4D	2.68	1.28	1.23
29	PK	203	PEB	OD-C4D	2.68	1.28	1.23
29	a7	203	PEB	OD-C4D	2.68	1.28	1.23
29	a9	203	PEB	OD-C4D	2.68	1.28	1.23
30	A7	302	PUB	OD-C4D	2.68	1.28	1.23
30	A9	302	PUB	OD-C4D	2.68	1.28	1.23
29	F4	201	PEB	C2C-C3C	2.67	1.45	1.37
31	J7	1001	CYC	C3D-C2D	2.67	1.45	1.37
31	KP	1001	CYC	C1B-C2B	2.67	1.49	1.45
29	LC	202	PEB	OD-C4D	2.67	1.28	1.23
29	LE	202	PEB	OD-C4D	2.67	1.28	1.23
29	GG	201	PEB	C2A-C1A	-2.67	1.49	1.52
29	GQ	201	PEB	C2A-C1A	-2.67	1.49	1.52
31	GK	1001	CYC	C2C-C1C	-2.67	1.49	1.52
31	H7	1001	CYC	C3D-C2D	2.67	1.45	1.37
31	H9	1001	CYC	C3D-C2D	2.67	1.45	1.37
29	J4	202	PEB	C4A-NA	-2.67	1.31	1.37
29	NO	201	PEB	OD-C4D	2.67	1.28	1.23
29	k7	202	PEB	C2A-C1A	-2.67	1.49	1.52
29	k9	202	PEB	C2A-C1A	-2.67	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H5	202	PEB	OD-C4D	2.67	1.28	1.23
31	WP	1001	CYC	OB-C4B	2.67	1.28	1.23
31	cP	1001	CYC	C1B-C2B	2.67	1.49	1.45
29	D3	201	PEB	OD-C4D	2.67	1.28	1.23
29	DO	201	PEB	OD-C4D	2.67	1.28	1.23
31	lP	1001	CYC	C1B-C2B	2.67	1.49	1.45
29	TF	202	PEB	OD-C4D	2.67	1.28	1.23
29	TI	202	PEB	OD-C4D	2.67	1.28	1.23
29	Z7	202	PEB	OD-C4D	2.67	1.28	1.23
29	Z9	202	PEB	OD-C4D	2.67	1.28	1.23
29	LC	201	PEB	OD-C4D	2.67	1.28	1.23
29	LE	201	PEB	OD-C4D	2.67	1.28	1.23
29	MQ	403	PEB	CHA-C1B	2.67	1.46	1.40
29	L8	202	PEB	OD-C4D	2.67	1.28	1.23
29	DC	201	PEB	C4B-C3B	2.67	1.50	1.45
29	DE	201	PEB	C4B-C3B	2.67	1.50	1.45
29	VB	202	PEB	OD-C4D	2.67	1.28	1.23
29	VM	202	PEB	OD-C4D	2.67	1.28	1.23
29	F1	1002	PEB	C2A-C1A	-2.67	1.49	1.52
29	FK	1002	PEB	C2A-C1A	-2.67	1.49	1.52
29	V7	203	PEB	OD-C4D	2.67	1.28	1.23
29	V9	203	PEB	OD-C4D	2.67	1.28	1.23
29	J3	201	PEB	OD-C4D	2.67	1.28	1.23
29	GA	201	PEB	OD-C4D	2.67	1.28	1.23
29	GN	201	PEB	OD-C4D	2.67	1.28	1.23
29	JO	201	PEB	OD-C4D	2.67	1.28	1.23
29	H8	203	PEB	OD-C4D	2.67	1.28	1.23
29	AF	305	PEB	OD-C4D	2.67	1.28	1.23
29	kF	203	PEB	OD-C4D	2.67	1.28	1.23
29	AI	305	PEB	OD-C4D	2.67	1.28	1.23
29	kI	203	PEB	OD-C4D	2.67	1.28	1.23
29	LC	201	PEB	C4B-C3B	2.66	1.50	1.45
29	LE	201	PEB	C4B-C3B	2.66	1.50	1.45
29	C4	201	PEB	C4A-NA	-2.66	1.31	1.37
29	HC	202	PEB	OD-C4D	2.66	1.28	1.23
29	HE	202	PEB	OD-C4D	2.66	1.28	1.23
31	F7	1001	CYC	C3D-C2D	2.66	1.45	1.37
31	F9	1001	CYC	C3D-C2D	2.66	1.45	1.37
31	N7	1001	CYC	C3D-C2D	2.66	1.45	1.37
31	N9	1001	CYC	C3D-C2D	2.66	1.45	1.37
29	c7	201	PEB	OD-C4D	2.66	1.28	1.23
29	c9	201	PEB	OD-C4D	2.66	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	mF	203	PEB	OD-C4D	2.66	1.28	1.23
29	mI	203	PEB	OD-C4D	2.66	1.28	1.23
31	G7	1001	CYC	OB-C4B	2.66	1.28	1.23
31	AP	1001	CYC	C1B-C2B	2.66	1.49	1.45
29	g7	203	PEB	OD-C4D	2.66	1.28	1.23
29	g9	203	PEB	OD-C4D	2.66	1.28	1.23
29	H5	203	PEB	OD-C4D	2.66	1.28	1.23
29	L4	202	PEB	CHA-C1B	2.66	1.46	1.40
29	BD	202	PEB	C4A-NA	-2.66	1.31	1.37
29	U7	202	PEB	OD-C4D	2.66	1.28	1.23
29	U9	202	PEB	OD-C4D	2.66	1.28	1.23
29	CG	201	PEB	C2A-C1A	-2.66	1.49	1.52
29	CQ	201	PEB	C2A-C1A	-2.66	1.49	1.52
29	MR	201	PEB	C4A-NA	-2.66	1.31	1.37
29	N3	201	PEB	OD-C4D	2.66	1.28	1.23
29	F4	202	PEB	C4A-NA	-2.66	1.31	1.37
31	D7	1001	CYC	C3D-C2D	2.66	1.45	1.37
31	D9	1001	CYC	C3D-C2D	2.66	1.45	1.37
29	MA	404	PEB	C2A-C1A	-2.66	1.49	1.52
29	DK	1002	PEB	C2A-C1A	-2.66	1.49	1.52
31	D1	1003	CYC	C2C-C1C	-2.66	1.49	1.52
31	VP	1001	CYC	C1B-C2B	2.66	1.49	1.45
29	JB	202	PEB	OD-C4D	2.66	1.28	1.23
29	JM	202	PEB	OD-C4D	2.66	1.28	1.23
31	yP	1001	CYC	OB-C4B	2.66	1.28	1.23
31	xP	1001	CYC	C1B-C2B	2.66	1.49	1.45
29	W7	202	PEB	OD-C4D	2.66	1.28	1.23
29	h7	202	PEB	OD-C4D	2.66	1.28	1.23
29	W9	202	PEB	OD-C4D	2.66	1.28	1.23
29	h9	202	PEB	OD-C4D	2.66	1.28	1.23
29	DB	202	PEB	OD-C4D	2.66	1.28	1.23
29	DM	202	PEB	OD-C4D	2.66	1.28	1.23
29	xL	303	PEB	C2A-C1A	-2.66	1.49	1.52
29	ID	201	PEB	OD-C4D	2.66	1.28	1.23
31	JP	1001	CYC	C1B-C2B	2.66	1.49	1.45
29	d7	202	PEB	OD-C4D	2.66	1.28	1.23
29	H8	201	PEB	OD-C4D	2.66	1.28	1.23
29	d9	202	PEB	OD-C4D	2.66	1.28	1.23
31	E7	1001	CYC	OB-C4B	2.66	1.28	1.23
31	E9	1001	CYC	OB-C4B	2.66	1.28	1.23
29	H3	201	PEB	OD-C4D	2.66	1.28	1.23
29	zL	501	PEB	OD-C4D	2.66	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HO	201	PEB	OD-C4D	2.66	1.28	1.23
29	L8	201	PEB	OD-C4D	2.65	1.28	1.23
29	gB	202	PEB	OD-C4D	2.65	1.28	1.23
29	gM	202	PEB	OD-C4D	2.65	1.28	1.23
29	RB	202	PEB	OD-C4D	2.65	1.28	1.23
29	RM	202	PEB	OD-C4D	2.65	1.28	1.23
29	CA	201	PEB	C2A-C1A	-2.65	1.49	1.52
29	CN	201	PEB	C2A-C1A	-2.65	1.49	1.52
29	J4	201	PEB	C4A-NA	-2.65	1.31	1.37
29	B4	201	PEB	C2C-C3C	2.65	1.45	1.37
29	CA	201	PEB	OD-C4D	2.65	1.28	1.23
29	EA	201	PEB	OD-C4D	2.65	1.28	1.23
29	kB	202	PEB	OD-C4D	2.65	1.28	1.23
29	kM	202	PEB	OD-C4D	2.65	1.28	1.23
29	CN	201	PEB	OD-C4D	2.65	1.28	1.23
29	EN	201	PEB	OD-C4D	2.65	1.28	1.23
30	A1	304	PUB	OD-C4D	2.65	1.28	1.23
30	AK	304	PUB	OD-C4D	2.65	1.28	1.23
29	DD	202	PEB	CHA-C1B	2.65	1.46	1.40
31	pP	1001	CYC	C1B-C2B	2.65	1.49	1.45
29	M3	202	PEB	OD-C4D	2.65	1.28	1.23
29	MN	401	PEB	OD-C4D	2.65	1.28	1.23
29	MO	202	PEB	OD-C4D	2.65	1.28	1.23
29	F4	202	PEB	CHA-C1B	2.65	1.46	1.40
29	FB	202	PEB	OD-C4D	2.65	1.28	1.23
29	TF	201	PEB	OD-C4D	2.65	1.28	1.23
29	FM	202	PEB	OD-C4D	2.65	1.28	1.23
29	L5	202	PEB	OD-C4D	2.65	1.28	1.23
29	LB	202	PEB	OD-C4D	2.65	1.28	1.23
29	LM	202	PEB	OD-C4D	2.65	1.28	1.23
29	B3	202	PEB	C2A-C1A	-2.65	1.49	1.52
29	BO	202	PEB	C2A-C1A	-2.65	1.49	1.52
29	M4	202	PEB	CHA-C1B	2.65	1.46	1.40
29	b7	202	PEB	OD-C4D	2.65	1.28	1.23
29	b9	202	PEB	OD-C4D	2.65	1.28	1.23
29	QR	201	PEB	C4A-NA	-2.65	1.31	1.37
29	P2	201	PEB	OD-C4D	2.65	1.28	1.23
29	wL	303	PEB	C2A-C1A	-2.65	1.49	1.52
29	BD	201	PEB	CHA-C4A	-2.65	1.31	1.36
29	J4	202	PEB	CHA-C1B	2.65	1.46	1.40
29	HD	202	PEB	CHA-C1B	2.65	1.46	1.40
30	A7	303	PUB	OD-C4D	2.65	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	A9	303	PUB	OD-C4D	2.65	1.28	1.23
31	G9	1001	CYC	OB-C4B	2.65	1.28	1.23
29	B3	201	PEB	OD-C4D	2.65	1.28	1.23
29	YB	201	PEB	OD-C4D	2.65	1.28	1.23
29	YM	201	PEB	OD-C4D	2.65	1.28	1.23
29	BO	201	PEB	OD-C4D	2.65	1.28	1.23
29	BD	202	PEB	CHA-C1B	2.65	1.46	1.40
29	JD	202	PEB	CHA-C1B	2.64	1.46	1.40
29	P7	201	PEB	OD-C4D	2.64	1.28	1.23
29	P9	201	PEB	OD-C4D	2.64	1.28	1.23
29	VF	203	PEB	OD-C4D	2.64	1.28	1.23
29	VI	203	PEB	OD-C4D	2.64	1.28	1.23
29	D4	201	PEB	C4A-NA	-2.64	1.31	1.37
29	CD	201	PEB	C4A-NA	-2.64	1.31	1.37
29	FC	202	PEB	OD-C4D	2.64	1.28	1.23
29	FE	202	PEB	OD-C4D	2.64	1.28	1.23
29	K4	201	PEB	C4A-NA	-2.64	1.31	1.37
29	KD	201	PEB	C4A-NA	-2.64	1.31	1.37
29	LD	202	PEB	CHA-C1B	2.64	1.46	1.40
31	rP	1001	CYC	C1B-C2B	2.64	1.49	1.45
29	KG	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	KQ	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	LD	201	PEB	C4A-NA	-2.64	1.31	1.37
31	CP	1001	CYC	C1B-C2B	2.64	1.49	1.45
31	GP	1001	CYC	C1D-CHD	2.64	1.51	1.41
29	R1	202	PEB	C2A-C1A	-2.64	1.49	1.52
29	RK	202	PEB	C2A-C1A	-2.64	1.49	1.52
29	F5	201	PEB	OD-C4D	2.64	1.28	1.23
29	e7	201	PEB	OD-C4D	2.64	1.28	1.23
29	F8	201	PEB	OD-C4D	2.64	1.28	1.23
29	e9	201	PEB	OD-C4D	2.64	1.28	1.23
29	NO	202	PEB	OD-C4D	2.64	1.28	1.23
31	C7	1001	CYC	OB-C4B	2.64	1.28	1.23
31	C9	1001	CYC	OB-C4B	2.64	1.28	1.23
31	JP	1001	CYC	C1D-CHD	2.64	1.51	1.41
29	L4	202	PEB	C4A-NA	-2.64	1.31	1.37
29	LD	202	PEB	C4A-NA	-2.64	1.31	1.37
29	gF	203	PEB	OD-C4D	2.64	1.28	1.23
29	gI	203	PEB	OD-C4D	2.64	1.28	1.23
29	UR	201	PEB	C4A-NA	-2.64	1.31	1.37
29	ID	201	PEB	C4A-NA	-2.64	1.31	1.37
29	CD	202	PEB	CHA-C1B	2.64	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B5	201	PEB	OD-C4D	2.64	1.28	1.23
29	I5	202	PEB	OD-C4D	2.64	1.28	1.23
29	I8	202	PEB	OD-C4D	2.64	1.28	1.23
31	iP	1001	CYC	C1B-C2B	2.64	1.49	1.45
29	H4	202	PEB	CHA-C1B	2.64	1.46	1.40
29	FD	202	PEB	CHA-C1B	2.64	1.46	1.40
29	F3	202	PEB	C2A-C1A	-2.64	1.49	1.52
29	IA	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	IG	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	IN	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	FO	202	PEB	C2A-C1A	-2.64	1.49	1.52
29	IQ	201	PEB	C2A-C1A	-2.64	1.49	1.52
29	RF	202	PEB	OD-C4D	2.64	1.28	1.23
29	RI	202	PEB	OD-C4D	2.64	1.28	1.23
29	D4	202	PEB	CHA-C1B	2.64	1.46	1.40
29	JG	201	PEB	OD-C4D	2.64	1.28	1.23
29	JQ	201	PEB	OD-C4D	2.64	1.28	1.23
29	MG	401	PEB	CHA-C1B	2.63	1.46	1.40
29	N3	202	PEB	OD-C4D	2.63	1.28	1.23
29	zJ	501	PEB	OD-C4D	2.63	1.28	1.23
29	L5	201	PEB	OD-C4D	2.63	1.28	1.23
29	BG	201	PEB	OD-C4D	2.63	1.28	1.23
29	BQ	201	PEB	OD-C4D	2.63	1.28	1.23
31	TP	1001	CYC	C1D-CHD	2.63	1.51	1.41
31	IF	1001	CYC	C4C-NC	-2.63	1.31	1.37
31	II	1001	CYC	C4C-NC	-2.63	1.31	1.37
31	cP	1001	CYC	C1D-CHD	2.63	1.51	1.41
31	lP	1001	CYC	C1D-CHD	2.63	1.51	1.41
29	B4	202	PEB	C4A-NA	-2.63	1.31	1.37
29	HC	201	PEB	C4B-C3B	2.63	1.49	1.45
29	HE	201	PEB	C4B-C3B	2.63	1.49	1.45
29	dD	401	PEB	OD-C4D	2.63	1.28	1.23
31	N1	1001	CYC	C1B-C2B	2.63	1.49	1.45
29	BC	202	PEB	OD-C4D	2.63	1.28	1.23
29	BE	202	PEB	OD-C4D	2.63	1.28	1.23
31	K7	1001	CYC	OB-C4B	2.63	1.28	1.23
31	mP	1001	CYC	C1D-CHD	2.63	1.51	1.41
29	GA	201	PEB	C2A-C1A	-2.63	1.49	1.52
29	GN	201	PEB	C2A-C1A	-2.63	1.49	1.52
29	BD	201	PEB	C2C-C3C	2.63	1.45	1.37
31	M1	1001	CYC	OB-C4B	2.63	1.28	1.23
31	MK	1001	CYC	OB-C4B	2.63	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	V2	202	PEB	OD-C4D	2.63	1.28	1.23
29	A7	301	PEB	OD-C4D	2.63	1.28	1.23
29	A9	301	PEB	OD-C4D	2.63	1.28	1.23
29	VR	202	PEB	OD-C4D	2.63	1.28	1.23
31	M7	1001	CYC	OB-C4B	2.63	1.28	1.23
29	KD	202	PEB	CHA-C1B	2.63	1.46	1.40
29	M4	201	PEB	OD-C4D	2.63	1.28	1.23
31	M9	1001	CYC	OB-C4B	2.63	1.28	1.23
31	L9	1001	CYC	C3D-C2D	2.63	1.45	1.37
29	G5	201	PEB	OD-C4D	2.63	1.28	1.23
29	ZB	202	PEB	OD-C4D	2.63	1.28	1.23
29	ZM	202	PEB	OD-C4D	2.63	1.28	1.23
31	EP	1001	CYC	C1D-CHD	2.63	1.51	1.41
29	K5	202	PEB	OD-C4D	2.63	1.28	1.23
29	K8	202	PEB	OD-C4D	2.63	1.28	1.23
29	TB	202	PEB	OD-C4D	2.63	1.28	1.23
29	TM	202	PEB	OD-C4D	2.63	1.28	1.23
29	iF	203	PEB	OD-C4D	2.63	1.28	1.23
29	iI	203	PEB	OD-C4D	2.63	1.28	1.23
29	DD	201	PEB	C4A-NA	-2.63	1.31	1.37
31	KP	1001	CYC	C1D-CHD	2.63	1.51	1.41
31	L7	1001	CYC	C3D-C2D	2.63	1.45	1.37
29	ID	202	PEB	CHA-C1B	2.63	1.46	1.40
29	D4	202	PEB	C4A-NA	-2.63	1.31	1.37
29	DD	202	PEB	C4A-NA	-2.63	1.31	1.37
29	m7	201	PEB	OD-C4D	2.63	1.28	1.23
29	m9	201	PEB	OD-C4D	2.63	1.28	1.23
29	RR	201	PEB	OD-C4D	2.62	1.28	1.23
29	DD	201	PEB	CHA-C4A	-2.62	1.31	1.36
29	M2	201	PEB	C4A-NA	-2.62	1.31	1.37
29	mB	202	PEB	OD-C4D	2.62	1.28	1.23
29	mM	202	PEB	OD-C4D	2.62	1.28	1.23
31	K9	1001	CYC	OB-C4B	2.62	1.28	1.23
29	MD	201	PEB	OD-C4D	2.62	1.28	1.23
31	PP	1001	CYC	C1D-CHD	2.62	1.51	1.41
29	QB	202	PEB	OD-C4D	2.62	1.28	1.23
29	QM	202	PEB	OD-C4D	2.62	1.28	1.23
29	MQ	407	PEB	OD-C4D	2.62	1.28	1.23
29	dD	401	PEB	C4A-NA	-2.62	1.31	1.37
29	BA	202	PEB	OD-C4D	2.62	1.28	1.23
29	BN	202	PEB	OD-C4D	2.62	1.28	1.23
31	iP	1001	CYC	C1D-CHD	2.62	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	g7	201	PEB	OD-C4D	2.62	1.28	1.23
29	g9	201	PEB	OD-C4D	2.62	1.28	1.23
31	1P	1002	CYC	OB-C4B	2.62	1.28	1.23
29	wL	301	PEB	C2A-C1A	-2.62	1.49	1.52
31	C1	1001	CYC	C2C-C1C	-2.62	1.49	1.52
29	a7	201	PEB	OD-C4D	2.62	1.28	1.23
29	a9	201	PEB	OD-C4D	2.62	1.28	1.23
29	FD	202	PEB	C4A-NA	-2.62	1.31	1.37
31	C1	1001	CYC	OB-C4B	2.62	1.28	1.23
31	GK	1001	CYC	OB-C4B	2.62	1.28	1.23
29	M4	201	PEB	C4A-NA	-2.62	1.31	1.37
29	WR	201	PEB	C4A-NA	-2.62	1.31	1.37
29	J3	202	PEB	C2A-C1A	-2.62	1.49	1.52
29	JO	202	PEB	C2A-C1A	-2.62	1.49	1.52
29	N2	201	PEB	OD-C4D	2.62	1.28	1.23
29	L3	201	PEB	OD-C4D	2.62	1.28	1.23
29	I4	201	PEB	OD-C4D	2.62	1.28	1.23
29	LO	201	PEB	OD-C4D	2.62	1.28	1.23
31	J1	1001	CYC	C1B-C2B	2.62	1.49	1.45
31	JK	1001	CYC	C1B-C2B	2.62	1.49	1.45
29	B4	202	PEB	CHA-C1B	2.62	1.46	1.40
31	RP	1001	CYC	C1D-CHD	2.62	1.51	1.41
29	G8	201	PEB	OD-C4D	2.62	1.28	1.23
31	tP	1001	CYC	C1D-CHD	2.62	1.51	1.41
31	vP	1001	CYC	C1D-CHD	2.62	1.51	1.41
29	A5	202	PEB	OD-C4D	2.62	1.28	1.23
29	A8	202	PEB	OD-C4D	2.62	1.28	1.23
29	MG	405	PEB	OD-C4D	2.62	1.28	1.23
29	J4	201	PEB	C2C-C3C	2.61	1.45	1.37
29	JD	201	PEB	C2C-C3C	2.61	1.45	1.37
29	LD	201	PEB	C2C-C3C	2.61	1.45	1.37
31	CP	1001	CYC	C1D-CHD	2.61	1.51	1.41
29	AC	203	PEB	OD-C4D	2.61	1.28	1.23
29	AE	203	PEB	OD-C4D	2.61	1.28	1.23
31	pP	1001	CYC	C1D-CHD	2.61	1.51	1.41
29	A1	303	PEB	OD-C4D	2.61	1.28	1.23
29	AK	303	PEB	OD-C4D	2.61	1.28	1.23
29	D4	201	PEB	CHA-C4A	-2.61	1.31	1.36
31	YP	1000	CYC	OB-C4B	2.61	1.28	1.23
29	L4	201	PEB	C4A-NA	-2.61	1.31	1.37
29	FD	201	PEB	C4A-NA	-2.61	1.31	1.37
29	I3	203	PEB	C2A-C1A	-2.61	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	IO	203	PEB	C2A-C1A	-2.61	1.49	1.52
31	NP	1001	CYC	C1D-CHD	2.61	1.51	1.41
31	rP	1001	CYC	C1D-CHD	2.61	1.51	1.41
29	L4	201	PEB	C2C-C3C	2.61	1.45	1.37
29	fF	202	PEB	C2A-C1A	-2.61	1.49	1.52
29	fI	202	PEB	C2A-C1A	-2.61	1.49	1.52
30	yJ	302	PUB	OA-C1A	2.61	1.28	1.23
30	yL	302	PUB	OA-C1A	2.61	1.28	1.23
29	B4	201	PEB	CHA-C4A	-2.61	1.31	1.36
31	AP	1001	CYC	C1D-CHD	2.61	1.51	1.41
29	X2	201	PEB	OD-C4D	2.61	1.28	1.23
29	k7	201	PEB	OD-C4D	2.61	1.28	1.23
29	k9	201	PEB	OD-C4D	2.61	1.28	1.23
29	i7	201	PEB	OD-C4D	2.60	1.28	1.23
29	i9	201	PEB	OD-C4D	2.60	1.28	1.23
29	MN	405	PEB	OD-C4D	2.60	1.28	1.23
30	wL	305	PUB	OA-C1A	2.60	1.28	1.23
29	OR	201	PEB	C4A-NA	-2.60	1.31	1.37
29	EG	201	PEB	C2A-C1A	-2.60	1.49	1.52
29	EQ	201	PEB	C2A-C1A	-2.60	1.49	1.52
29	HB	202	PEB	OD-C4D	2.60	1.28	1.23
29	HM	202	PEB	OD-C4D	2.60	1.28	1.23
31	gP	1001	CYC	C1D-CHD	2.60	1.51	1.41
29	B4	201	PEB	C4A-NA	-2.60	1.31	1.37
31	H1	1001	CYC	C1B-C2B	2.60	1.49	1.45
31	NF	1001	CYC	C4B-NB	-2.60	1.32	1.38
31	NI	1001	CYC	C4B-NB	-2.60	1.32	1.38
29	MA	401	PEB	OD-C4D	2.60	1.28	1.23
29	U2	201	PEB	C4A-NA	-2.60	1.31	1.37
29	E4	201	PEB	C4A-NA	-2.60	1.31	1.37
29	K4	201	PEB	OD-C4D	2.60	1.28	1.23
29	KD	201	PEB	OD-C4D	2.60	1.28	1.23
31	FF	1001	CYC	C4B-NB	-2.60	1.32	1.38
31	FI	1001	CYC	C4B-NB	-2.60	1.32	1.38
31	eP	1001	CYC	C1D-CHD	2.60	1.51	1.41
29	yJ	301	PEB	OD-C4D	2.60	1.28	1.23
29	yL	301	PEB	OD-C4D	2.60	1.28	1.23
29	A1	302	PEB	OD-C4D	2.60	1.28	1.23
29	AK	302	PEB	OD-C4D	2.60	1.28	1.23
29	QF	202	PEB	C2A-C1A	-2.60	1.49	1.52
29	QI	202	PEB	C2A-C1A	-2.60	1.49	1.52
29	C4	202	PEB	C4A-NA	-2.60	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	R2	201	PEB	OD-C4D	2.60	1.28	1.23
31	KF	1001	CYC	C4C-NC	-2.60	1.31	1.37
29	C4	202	PEB	CHA-C1B	2.60	1.46	1.40
29	R2	203	PEB	OD-C4D	2.60	1.28	1.23
29	RR	203	PEB	OD-C4D	2.60	1.28	1.23
29	FD	201	PEB	CHA-C4A	-2.60	1.31	1.36
29	MD	202	PEB	CHA-C1B	2.60	1.46	1.40
29	I4	201	PEB	C4A-NA	-2.60	1.31	1.37
31	KI	1001	CYC	C4C-NC	-2.60	1.31	1.37
29	aB	203	PEB	OD-C4D	2.60	1.28	1.23
29	aM	203	PEB	OD-C4D	2.60	1.28	1.23
31	GF	1001	CYC	C1B-NB	-2.60	1.33	1.37
31	GI	1001	CYC	C1B-NB	-2.60	1.33	1.37
29	HD	201	PEB	C2C-C3C	2.60	1.45	1.37
29	ED	201	PEB	CHA-C1B	2.60	1.46	1.40
29	BD	201	PEB	C4A-NA	-2.60	1.31	1.37
31	JF	1001	CYC	C4C-NC	-2.60	1.31	1.37
31	JI	1001	CYC	C4C-NC	-2.60	1.31	1.37
31	K1	1001	CYC	OB-C4B	2.60	1.28	1.23
31	KK	1001	CYC	OB-C4B	2.60	1.28	1.23
29	H4	201	PEB	C2C-C3C	2.60	1.45	1.37
31	L9	1001	CYC	C4C-NC	-2.60	1.31	1.37
29	VR	201	PEB	OD-C4D	2.60	1.28	1.23
29	KA	201	PEB	C2A-C1A	-2.60	1.49	1.52
29	KN	201	PEB	C2A-C1A	-2.60	1.49	1.52
29	W2	201	PEB	C4A-NA	-2.60	1.31	1.37
29	C4	201	PEB	OD-C4D	2.60	1.28	1.23
29	CD	201	PEB	OD-C4D	2.60	1.28	1.23
29	FC	201	PEB	C4B-C3B	2.60	1.49	1.45
29	FE	201	PEB	C4B-C3B	2.60	1.49	1.45
29	T7	201	PEB	OD-C4D	2.60	1.28	1.23
29	T9	201	PEB	OD-C4D	2.60	1.28	1.23
29	DA	202	PEB	OD-C4D	2.60	1.28	1.23
29	DN	202	PEB	OD-C4D	2.60	1.28	1.23
29	TR	203	PEB	OD-C4D	2.60	1.28	1.23
31	JF	1001	CYC	C4B-NB	-2.59	1.32	1.38
31	JI	1001	CYC	C4B-NB	-2.59	1.32	1.38
29	V2	203	PEB	OD-C4D	2.59	1.28	1.23
29	KB	203	PEB	OD-C4D	2.59	1.28	1.23
29	KM	203	PEB	OD-C4D	2.59	1.28	1.23
29	VR	203	PEB	OD-C4D	2.59	1.28	1.23
31	D1	1003	CYC	OB-C4B	2.59	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	I4	202	PEB	CHA-C1B	2.59	1.46	1.40
30	A1	304	PUB	OA-C1A	2.59	1.28	1.23
30	AK	304	PUB	OA-C1A	2.59	1.28	1.23
29	E4	202	PEB	CHA-C1B	2.59	1.46	1.40
29	F4	201	PEB	C4A-NA	-2.59	1.31	1.37
29	N2	202	PEB	OD-C4D	2.59	1.28	1.23
29	C5	202	PEB	OD-C4D	2.59	1.28	1.23
29	C8	202	PEB	OD-C4D	2.59	1.28	1.23
29	NR	202	PEB	OD-C4D	2.59	1.28	1.23
31	LF	1001	CYC	C4B-NB	-2.59	1.32	1.38
31	LI	1001	CYC	C4B-NB	-2.59	1.32	1.38
31	EF	1001	CYC	C4C-NC	-2.59	1.31	1.37
31	EI	1001	CYC	C4C-NC	-2.59	1.31	1.37
31	D1	1001	CYC	C1B-C2B	2.59	1.49	1.45
31	GF	1001	CYC	C4C-NC	-2.59	1.31	1.37
31	GI	1001	CYC	C4C-NC	-2.59	1.31	1.37
29	BC	201	PEB	C4B-C3B	2.59	1.49	1.45
29	BE	201	PEB	C4B-C3B	2.59	1.49	1.45
29	X2	202	PEB	OD-C4D	2.59	1.28	1.23
29	G4	201	PEB	OD-C4D	2.59	1.28	1.23
29	e2	402	PEB	OD-C4D	2.59	1.28	1.23
29	AG	201	PEB	C2A-C1A	-2.59	1.49	1.52
29	AQ	201	PEB	C2A-C1A	-2.59	1.49	1.52
29	K4	202	PEB	CHA-C1B	2.59	1.46	1.40
29	P2	202	PEB	OD-C4D	2.59	1.28	1.23
29	R7	201	PEB	OD-C4D	2.59	1.28	1.23
29	R9	201	PEB	OD-C4D	2.59	1.28	1.23
29	PR	202	PEB	OD-C4D	2.59	1.28	1.23
29	G4	201	PEB	C4A-NA	-2.59	1.31	1.37
29	GD	201	PEB	C4A-NA	-2.59	1.31	1.37
29	MD	201	PEB	C4A-NA	-2.59	1.31	1.37
29	D4	201	PEB	C2C-C3C	2.59	1.45	1.37
29	DD	201	PEB	C2C-C3C	2.59	1.45	1.37
29	iB	202	PEB	OD-C4D	2.59	1.28	1.23
29	iM	202	PEB	OD-C4D	2.59	1.28	1.23
31	IK	1001	CYC	OB-C4B	2.59	1.28	1.23
29	G4	202	PEB	CHA-C1B	2.59	1.46	1.40
29	GD	202	PEB	CHA-C1B	2.59	1.46	1.40
29	V7	201	PEB	OD-C4D	2.59	1.28	1.23
29	V9	201	PEB	OD-C4D	2.59	1.28	1.23
31	NK	1001	CYC	C1B-C2B	2.59	1.49	1.45
29	KC	201	PEB	OD-C4D	2.59	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KE	201	PEB	OD-C4D	2.59	1.28	1.23
29	O2	201	PEB	C4A-NA	-2.59	1.31	1.37
29	Y7	201	PEB	OD-C4D	2.59	1.28	1.23
29	Y9	201	PEB	OD-C4D	2.59	1.28	1.23
29	JD	201	PEB	CHA-C4A	-2.59	1.31	1.36
29	U1	201	PEB	C2A-C1A	-2.59	1.49	1.52
29	UK	201	PEB	C2A-C1A	-2.59	1.49	1.52
29	XR	203	PEB	OD-C4D	2.59	1.28	1.23
31	HF	1001	CYC	C4B-NB	-2.59	1.32	1.38
31	HI	1001	CYC	C4B-NB	-2.59	1.32	1.38
29	HD	201	PEB	C4A-NA	-2.59	1.31	1.37
29	H4	201	PEB	CHA-C4A	-2.59	1.31	1.36
29	ED	201	PEB	C4A-NA	-2.58	1.31	1.37
29	NR	203	PEB	OD-C4D	2.58	1.28	1.23
29	JD	201	PEB	C4A-NA	-2.58	1.31	1.37
30	wJ	305	PUB	OA-C1A	2.58	1.28	1.23
31	EK	1001	CYC	OB-C4B	2.58	1.28	1.23
29	H3	202	PEB	C2A-C1A	-2.58	1.49	1.52
29	HO	202	PEB	C2A-C1A	-2.58	1.49	1.52
29	K4	202	PEB	C4A-NA	-2.58	1.31	1.37
29	PR	201	PEB	OD-C4D	2.58	1.28	1.23
31	F9	1001	CYC	C4C-NC	-2.58	1.31	1.37
29	T2	203	PEB	OD-C4D	2.58	1.28	1.23
31	LF	1001	CYC	C4C-NC	-2.58	1.31	1.37
31	LI	1001	CYC	C4C-NC	-2.58	1.31	1.37
31	F7	1001	CYC	OB-C4B	2.58	1.28	1.23
29	F4	201	PEB	CHA-C4A	-2.58	1.31	1.36
29	FA	202	PEB	OD-C4D	2.58	1.28	1.23
29	FN	202	PEB	OD-C4D	2.58	1.28	1.23
31	DK	1001	CYC	C1B-C2B	2.58	1.49	1.45
29	P1	202	PEB	C2A-C1A	-2.58	1.49	1.52
29	PK	202	PEB	C2A-C1A	-2.58	1.49	1.52
31	HF	1001	CYC	C4C-NC	-2.58	1.31	1.37
31	HI	1001	CYC	C4C-NC	-2.58	1.31	1.37
31	HK	1001	CYC	C1B-C2B	2.58	1.49	1.45
31	L1	1001	CYC	C1B-C2B	2.58	1.49	1.45
31	LK	1001	CYC	C1B-C2B	2.58	1.49	1.45
30	xJ	304	PUB	OD-C4D	2.58	1.28	1.23
31	DF	1001	CYC	C4B-NB	-2.58	1.32	1.38
31	DI	1001	CYC	C4B-NB	-2.58	1.32	1.38
31	yP	1001	CYC	C1B-C2B	2.58	1.49	1.45
29	MA	405	PEB	OD-C4D	2.58	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	J5	202	PEB	OD-C4D	2.57	1.28	1.23
29	J8	202	PEB	OD-C4D	2.57	1.28	1.23
31	CK	1001	CYC	OB-C4B	2.57	1.28	1.23
31	J9	1001	CYC	OB-C4B	2.57	1.28	1.23
31	F9	1001	CYC	OB-C4B	2.57	1.28	1.23
31	L7	1001	CYC	C4C-NC	-2.57	1.31	1.37
29	EA	201	PEB	C2A-C1A	-2.57	1.49	1.52
29	EN	201	PEB	C2A-C1A	-2.57	1.49	1.52
31	yP	1001	CYC	C4B-NB	-2.57	1.32	1.38
29	wJ	301	PEB	C2A-C1A	-2.57	1.49	1.52
31	F7	1001	CYC	C4C-NC	-2.57	1.31	1.37
31	NF	1001	CYC	C4C-NC	-2.57	1.31	1.37
31	NI	1001	CYC	C4C-NC	-2.57	1.31	1.37
31	E1	1001	CYC	OB-C4B	2.57	1.28	1.23
31	FF	1001	CYC	C4C-NC	-2.57	1.31	1.37
31	FI	1001	CYC	C4C-NC	-2.57	1.31	1.37
30	xL	305	PUB	OA-C1A	2.57	1.28	1.23
31	D7	1001	CYC	OB-C4B	2.57	1.28	1.23
31	D9	1001	CYC	OB-C4B	2.57	1.28	1.23
29	A1	301	PEB	OD-C4D	2.57	1.28	1.23
29	AK	301	PEB	OD-C4D	2.57	1.28	1.23
30	A7	302	PUB	OA-C1A	2.57	1.28	1.23
30	A9	302	PUB	OA-C1A	2.57	1.28	1.23
31	MF	1001	CYC	C4C-NC	-2.57	1.31	1.37
31	MI	1001	CYC	C4C-NC	-2.57	1.31	1.37
29	V2	201	PEB	OD-C4D	2.57	1.28	1.23
31	WP	1001	CYC	C1B-C2B	2.57	1.49	1.45
29	V7	203	PEB	C4B-C3B	2.57	1.49	1.45
29	V9	203	PEB	C4B-C3B	2.57	1.49	1.45
31	J7	1001	CYC	C4C-NC	-2.57	1.32	1.37
29	CJ	201	PEB	OD-C4D	2.57	1.28	1.23
29	CL	201	PEB	OD-C4D	2.57	1.28	1.23
31	M9	1001	CYC	C1B-NB	-2.57	1.33	1.37
29	jF	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	jI	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	T2	202	PEB	OD-C4D	2.56	1.28	1.23
31	CF	1001	CYC	C4C-NC	-2.56	1.32	1.37
31	CI	1001	CYC	C4C-NC	-2.56	1.32	1.37
29	O2	202	PEB	C4B-C3B	2.56	1.49	1.45
31	I7	1001	CYC	C1B-NB	-2.56	1.33	1.37
31	I9	1001	CYC	C1B-NB	-2.56	1.33	1.37
29	G4	202	PEB	C4A-NA	-2.56	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	i1	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	WF	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	WI	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	iK	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	KD	203	PEB	OD-C4D	2.56	1.28	1.23
30	wL	304	PUB	OD-C4D	2.56	1.28	1.23
29	H4	201	PEB	C4A-NA	-2.56	1.32	1.37
29	G4	203	PEB	OD-C4D	2.56	1.28	1.23
31	G9	1001	CYC	C1B-NB	-2.56	1.33	1.37
29	gB	201	PEB	OD-C4D	2.56	1.28	1.23
29	gM	201	PEB	OD-C4D	2.56	1.28	1.23
29	TR	202	PEB	OD-C4D	2.56	1.28	1.23
30	xL	304	PUB	OD-C4D	2.56	1.28	1.23
31	MF	1001	CYC	C1B-NB	-2.56	1.33	1.37
31	MI	1001	CYC	C1B-NB	-2.56	1.33	1.37
29	GD	201	PEB	OD-C4D	2.56	1.28	1.23
31	C7	1001	CYC	C1B-NB	-2.56	1.33	1.37
31	C9	1001	CYC	C1B-NB	-2.56	1.33	1.37
29	LA	202	PEB	OD-C4D	2.56	1.28	1.23
29	LN	202	PEB	OD-C4D	2.56	1.28	1.23
29	XR	202	PEB	OD-C4D	2.56	1.28	1.23
29	cB	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	cM	202	PEB	C2A-C1A	-2.56	1.49	1.52
29	JA	202	PEB	OD-C4D	2.56	1.28	1.23
29	JN	202	PEB	OD-C4D	2.56	1.28	1.23
29	XR	201	PEB	OD-C4D	2.56	1.28	1.23
30	wJ	304	PUB	OD-C4D	2.56	1.28	1.23
31	CF	1001	CYC	C1B-NB	-2.56	1.33	1.37
31	CI	1001	CYC	C1B-NB	-2.56	1.33	1.37
31	WP	1001	CYC	C4B-NB	-2.56	1.32	1.38
31	I1	1001	CYC	OB-C4B	2.56	1.28	1.23
29	kJ	201	PEB	OD-C4D	2.56	1.28	1.23
29	kL	201	PEB	OD-C4D	2.56	1.28	1.23
31	H7	1001	CYC	C4C-NC	-2.56	1.32	1.37
31	H9	1001	CYC	C4C-NC	-2.56	1.32	1.37
31	IF	1001	CYC	C1B-NB	-2.55	1.33	1.37
31	II	1001	CYC	C1B-NB	-2.55	1.33	1.37
29	TR	201	PEB	OD-C4D	2.55	1.28	1.23
31	J9	1001	CYC	C4C-NC	-2.55	1.32	1.37
29	I5	201	PEB	C2A-C1A	-2.55	1.49	1.52
29	I8	201	PEB	C2A-C1A	-2.55	1.49	1.52
29	lF	202	PEB	C2A-C1A	-2.55	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	II	202	PEB	C2A-C1A	-2.55	1.49	1.52
31	DF	1001	CYC	C4C-NC	-2.55	1.32	1.37
31	DI	1001	CYC	C4C-NC	-2.55	1.32	1.37
29	NR	201	PEB	OD-C4D	2.55	1.28	1.23
29	GD	202	PEB	C4A-NA	-2.55	1.32	1.37
29	HA	202	PEB	OD-C4D	2.55	1.28	1.23
29	qJ	201	PEB	OD-C4D	2.55	1.28	1.23
29	qL	201	PEB	OD-C4D	2.55	1.28	1.23
29	HN	202	PEB	OD-C4D	2.55	1.28	1.23
29	FJ	201	PEB	OD-C4D	2.55	1.28	1.23
29	FL	201	PEB	OD-C4D	2.55	1.28	1.23
29	VB	202	PEB	C2A-C1A	-2.55	1.49	1.52
29	VM	202	PEB	C2A-C1A	-2.55	1.49	1.52
29	K4	203	PEB	OD-C4D	2.55	1.28	1.23
31	G7	1001	CYC	C1B-NB	-2.55	1.33	1.37
31	M7	1001	CYC	C1B-NB	-2.55	1.33	1.37
31	J7	1001	CYC	OB-C4B	2.55	1.28	1.23
31	EF	1001	CYC	OB-C4B	2.55	1.28	1.23
31	EI	1001	CYC	OB-C4B	2.55	1.28	1.23
29	OJ	201	PEB	OD-C4D	2.55	1.28	1.23
29	OL	201	PEB	OD-C4D	2.55	1.28	1.23
31	D7	1001	CYC	C4C-NC	-2.55	1.32	1.37
31	D9	1001	CYC	C4C-NC	-2.55	1.32	1.37
29	CD	202	PEB	C4A-NA	-2.55	1.32	1.37
29	A8	202	PEB	C2A-C1A	-2.55	1.49	1.52
29	bF	202	PEB	C2A-C1A	-2.55	1.49	1.52
29	bI	202	PEB	C2A-C1A	-2.55	1.49	1.52
31	F1	1001	CYC	C1B-C2B	2.55	1.49	1.45
31	FK	1001	CYC	C1B-C2B	2.55	1.49	1.45
31	GF	1001	CYC	OB-C4B	2.54	1.28	1.23
31	GI	1001	CYC	OB-C4B	2.54	1.28	1.23
29	jJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	jL	201	PEB	OD-C4D	2.54	1.28	1.23
31	N7	1001	CYC	OB-C4B	2.54	1.28	1.23
31	N9	1001	CYC	OB-C4B	2.54	1.28	1.23
29	E4	202	PEB	C4A-NA	-2.54	1.32	1.37
29	tJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	tL	201	PEB	OD-C4D	2.54	1.28	1.23
29	sJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	sL	201	PEB	OD-C4D	2.54	1.28	1.23
29	DJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	DL	201	PEB	OD-C4D	2.54	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	V1	202	PEB	C2A-C1A	-2.54	1.49	1.52
29	VK	202	PEB	C2A-C1A	-2.54	1.49	1.52
29	AA	202	PEB	C4B-C3B	2.54	1.49	1.45
29	AN	202	PEB	C4B-C3B	2.54	1.49	1.45
29	K8	201	PEB	C2A-C1A	-2.54	1.49	1.52
29	OF	202	PEB	C2A-C1A	-2.54	1.49	1.52
29	OI	202	PEB	C2A-C1A	-2.54	1.49	1.52
29	RR	202	PEB	OD-C4D	2.54	1.28	1.23
31	CF	1001	CYC	OB-C4B	2.54	1.28	1.23
31	CI	1001	CYC	OB-C4B	2.54	1.28	1.23
31	KI	1001	CYC	C1B-NB	-2.54	1.33	1.37
29	WJ	202	PEB	OD-C4D	2.54	1.28	1.23
29	vJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	WL	202	PEB	OD-C4D	2.54	1.28	1.23
29	vL	201	PEB	OD-C4D	2.54	1.28	1.23
29	M2	202	PEB	C4B-C3B	2.54	1.49	1.45
29	T2	201	PEB	OD-C4D	2.54	1.28	1.23
29	ZJ	201	PEB	OD-C4D	2.54	1.28	1.23
29	ZL	201	PEB	OD-C4D	2.54	1.28	1.23
29	k1	202	PEB	C2A-C1A	-2.54	1.49	1.52
29	kK	202	PEB	C2A-C1A	-2.54	1.49	1.52
31	H7	1001	CYC	OB-C4B	2.54	1.28	1.23
31	H9	1001	CYC	OB-C4B	2.54	1.28	1.23
29	J4	201	PEB	CHA-C4A	-2.54	1.31	1.36
29	HD	201	PEB	CHA-C4A	-2.54	1.31	1.36
29	R2	202	PEB	OD-C4D	2.53	1.28	1.23
29	MD	203	PEB	OD-C4D	2.53	1.28	1.23
29	SJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	SL	201	PEB	OD-C4D	2.53	1.28	1.23
29	c1	202	PEB	C2A-C1A	-2.53	1.49	1.52
29	cK	202	PEB	C2A-C1A	-2.53	1.49	1.52
29	KJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	KL	201	PEB	OD-C4D	2.53	1.28	1.23
29	KD	202	PEB	C4A-NA	-2.53	1.32	1.37
29	E4	203	PEB	OD-C4D	2.53	1.28	1.23
29	MJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	ML	201	PEB	OD-C4D	2.53	1.28	1.23
29	xJ	302	PEB	C2A-C1A	-2.53	1.49	1.52
29	L4	201	PEB	CHA-C4A	-2.53	1.31	1.36
29	LD	201	PEB	CHA-C4A	-2.53	1.31	1.36
29	C4	203	PEB	OD-C4D	2.53	1.28	1.23
29	J5	201	PEB	OD-C4D	2.53	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	J8	201	PEB	OD-C4D	2.53	1.28	1.23
29	ED	202	PEB	OD-C4D	2.53	1.28	1.23
29	LJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	TJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	LL	201	PEB	OD-C4D	2.53	1.28	1.23
29	TL	201	PEB	OD-C4D	2.53	1.28	1.23
29	N2	203	PEB	OD-C4D	2.53	1.28	1.23
31	KF	1001	CYC	OB-C4B	2.53	1.28	1.23
29	GJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	GL	201	PEB	OD-C4D	2.53	1.28	1.23
30	xJ	305	PUB	OA-C1A	2.53	1.28	1.23
29	BJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	hJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	BL	201	PEB	OD-C4D	2.53	1.28	1.23
29	hL	201	PEB	OD-C4D	2.53	1.28	1.23
29	UJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	UL	201	PEB	OD-C4D	2.53	1.28	1.23
29	IJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	IL	201	PEB	OD-C4D	2.53	1.28	1.23
29	aJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	aL	201	PEB	OD-C4D	2.53	1.28	1.23
29	AJ	201	PEB	OD-C4D	2.53	1.28	1.23
29	AL	201	PEB	OD-C4D	2.53	1.28	1.23
29	AF	304	PEB	C4A-NA	-2.53	1.32	1.37
29	AI	304	PEB	C4A-NA	-2.53	1.32	1.37
31	N7	1001	CYC	C4C-NC	-2.52	1.32	1.37
31	N9	1001	CYC	C4C-NC	-2.52	1.32	1.37
29	GD	203	PEB	OD-C4D	2.52	1.28	1.23
30	AF	302	PUB	OA-C1A	2.52	1.28	1.23
30	AI	302	PUB	OA-C1A	2.52	1.28	1.23
29	TB	201	PEB	OD-C4D	2.52	1.28	1.23
29	TM	201	PEB	OD-C4D	2.52	1.28	1.23
29	M4	202	PEB	C4A-NA	-2.52	1.32	1.37
29	iJ	201	PEB	OD-C4D	2.52	1.28	1.23
29	iL	201	PEB	OD-C4D	2.52	1.28	1.23
29	HB	201	PEB	OD-C4D	2.52	1.28	1.23
29	mB	201	PEB	OD-C4D	2.52	1.28	1.23
29	HM	201	PEB	OD-C4D	2.52	1.28	1.23
29	mM	201	PEB	OD-C4D	2.52	1.28	1.23
29	ZB	201	PEB	OD-C4D	2.52	1.28	1.23
29	ZM	201	PEB	OD-C4D	2.52	1.28	1.23
29	eB	201	PEB	OD-C4D	2.52	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	eM	201	PEB	OD-C4D	2.52	1.28	1.23
29	IA	202	PEB	C4B-C3B	2.52	1.49	1.45
29	IN	202	PEB	C4B-C3B	2.52	1.49	1.45
31	K9	1001	CYC	C1B-NB	-2.52	1.33	1.37
29	XB	201	PEB	OD-C4D	2.52	1.28	1.23
29	XM	201	PEB	OD-C4D	2.52	1.28	1.23
29	I4	202	PEB	C4A-NA	-2.52	1.32	1.37
29	ZF	202	PEB	C2A-C1A	-2.52	1.49	1.52
29	ZI	202	PEB	C2A-C1A	-2.52	1.49	1.52
29	WR	202	PEB	C4B-C3B	2.52	1.49	1.45
29	RJ	201	PEB	OD-C4D	2.52	1.28	1.23
29	RL	201	PEB	OD-C4D	2.52	1.28	1.23
29	ID	202	PEB	C4A-NA	-2.52	1.32	1.37
29	QJ	201	PEB	OD-C4D	2.52	1.28	1.23
29	QL	201	PEB	OD-C4D	2.52	1.28	1.23
29	MA	405	PEB	C2A-C1A	-2.52	1.49	1.52
31	L9	1001	CYC	OB-C4B	2.52	1.28	1.23
29	mJ	201	PEB	OD-C4D	2.52	1.28	1.23
29	mL	201	PEB	OD-C4D	2.52	1.28	1.23
31	L7	1001	CYC	OB-C4B	2.52	1.28	1.23
29	EB	202	PEB	C4B-C3B	2.51	1.49	1.45
29	EM	202	PEB	C4B-C3B	2.51	1.49	1.45
29	NJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	NL	201	PEB	OD-C4D	2.51	1.28	1.23
29	iB	201	PEB	OD-C4D	2.51	1.28	1.23
29	iM	201	PEB	OD-C4D	2.51	1.28	1.23
31	KF	1001	CYC	C1B-NB	-2.51	1.33	1.37
29	Y7	203	PEB	C4B-C3B	2.51	1.49	1.45
29	Y9	203	PEB	C4B-C3B	2.51	1.49	1.45
29	UF	203	PEB	C2A-C1A	-2.51	1.49	1.52
29	UI	203	PEB	C2A-C1A	-2.51	1.49	1.52
29	VB	201	PEB	OD-C4D	2.51	1.28	1.23
29	VM	201	PEB	OD-C4D	2.51	1.28	1.23
29	VJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	lJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	nJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	VL	201	PEB	OD-C4D	2.51	1.28	1.23
29	lL	201	PEB	OD-C4D	2.51	1.28	1.23
29	nL	201	PEB	OD-C4D	2.51	1.28	1.23
29	a7	203	PEB	C4B-C3B	2.51	1.49	1.45
29	a9	203	PEB	C4B-C3B	2.51	1.49	1.45
29	PJ	201	PEB	OD-C4D	2.51	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	oJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	PL	201	PEB	OD-C4D	2.51	1.28	1.23
29	oL	201	PEB	OD-C4D	2.51	1.28	1.23
29	ID	203	PEB	OD-C4D	2.51	1.28	1.23
29	FB	201	PEB	OD-C4D	2.51	1.28	1.23
29	FM	201	PEB	OD-C4D	2.51	1.28	1.23
31	MF	1001	CYC	OB-C4B	2.51	1.28	1.23
31	MI	1001	CYC	OB-C4B	2.51	1.28	1.23
29	MD	202	PEB	C4A-NA	-2.51	1.32	1.37
31	E7	1001	CYC	C1B-NB	-2.51	1.33	1.37
31	E9	1001	CYC	C1B-NB	-2.51	1.33	1.37
29	gJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	gL	201	PEB	OD-C4D	2.51	1.28	1.23
29	bJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	bL	201	PEB	OD-C4D	2.51	1.28	1.23
29	C5	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	C8	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	eJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	eL	201	PEB	OD-C4D	2.51	1.28	1.23
29	QR	202	PEB	C4B-C3B	2.51	1.49	1.45
29	JB	201	PEB	OD-C4D	2.51	1.28	1.23
29	cJ	201	PEB	OD-C4D	2.51	1.28	1.23
29	cL	201	PEB	OD-C4D	2.51	1.28	1.23
29	JM	201	PEB	OD-C4D	2.51	1.28	1.23
29	e1	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	g1	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	eK	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	gK	202	PEB	C2A-C1A	-2.51	1.49	1.52
29	R7	203	PEB	C4B-C3B	2.51	1.49	1.45
29	R9	203	PEB	C4B-C3B	2.51	1.49	1.45
29	T7	203	PEB	C4B-C3B	2.50	1.49	1.45
29	T9	203	PEB	C4B-C3B	2.50	1.49	1.45
29	kB	201	PEB	OD-C4D	2.50	1.28	1.23
29	kM	201	PEB	OD-C4D	2.50	1.28	1.23
29	dF	203	PEB	C2A-C1A	-2.50	1.49	1.52
29	dI	203	PEB	C2A-C1A	-2.50	1.49	1.52
29	DB	202	PEB	C2A-C1A	-2.50	1.49	1.52
29	DM	202	PEB	C2A-C1A	-2.50	1.49	1.52
31	KI	1001	CYC	OB-C4B	2.50	1.28	1.23
29	hF	202	PEB	C2A-C1A	-2.50	1.49	1.52
29	hI	202	PEB	C2A-C1A	-2.50	1.49	1.52
29	XJ	201	PEB	OD-C4D	2.50	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	dJ	201	PEB	OD-C4D	2.50	1.28	1.23
29	XL	201	PEB	OD-C4D	2.50	1.28	1.23
29	dL	201	PEB	OD-C4D	2.50	1.28	1.23
29	GA	202	PEB	C4B-C3B	2.50	1.49	1.45
29	GN	202	PEB	C4B-C3B	2.50	1.49	1.45
29	JJ	201	PEB	OD-C4D	2.50	1.28	1.23
29	JL	201	PEB	OD-C4D	2.50	1.28	1.23
29	KB	202	PEB	C4B-C3B	2.50	1.49	1.45
29	KM	202	PEB	C4B-C3B	2.50	1.49	1.45
29	AA	201	PEB	C2A-C1A	-2.50	1.49	1.52
29	SF	202	PEB	C2A-C1A	-2.50	1.49	1.52
29	SI	202	PEB	C2A-C1A	-2.50	1.49	1.52
29	AN	201	PEB	C2A-C1A	-2.50	1.49	1.52
31	EF	1001	CYC	C1B-NB	-2.50	1.33	1.37
31	EI	1001	CYC	C1B-NB	-2.50	1.33	1.37
29	RB	201	PEB	OD-C4D	2.50	1.28	1.23
29	iF	201	PEB	OD-C4D	2.50	1.28	1.23
29	iI	201	PEB	OD-C4D	2.50	1.28	1.23
29	RM	201	PEB	OD-C4D	2.50	1.28	1.23
29	DB	201	PEB	OD-C4D	2.49	1.28	1.23
29	YJ	201	PEB	OD-C4D	2.49	1.28	1.23
29	YL	201	PEB	OD-C4D	2.49	1.28	1.23
29	DM	201	PEB	OD-C4D	2.49	1.28	1.23
29	U2	202	PEB	C4B-C3B	2.49	1.49	1.45
29	g7	203	PEB	C4B-C3B	2.49	1.49	1.45
29	g9	203	PEB	C4B-C3B	2.49	1.49	1.45
29	wL	302	PEB	C2A-C1A	-2.49	1.49	1.52
29	BB	301	PEB	OD-C4D	2.49	1.28	1.23
29	BM	301	PEB	OD-C4D	2.49	1.28	1.23
29	xL	302	PEB	C2A-C1A	-2.49	1.49	1.52
29	FD	201	PEB	C4B-NB	-2.49	1.33	1.38
29	PF	201	PEB	OD-C4D	2.49	1.28	1.23
29	PI	201	PEB	OD-C4D	2.49	1.28	1.23
29	EJ	201	PEB	OD-C4D	2.49	1.28	1.23
29	EL	201	PEB	OD-C4D	2.49	1.28	1.23
31	IF	1001	CYC	OB-C4B	2.49	1.28	1.23
31	II	1001	CYC	OB-C4B	2.49	1.28	1.23
30	BB	302	PUB	OA-C1A	2.49	1.28	1.23
30	BM	302	PUB	OA-C1A	2.49	1.28	1.23
29	NB	201	PEB	OD-C4D	2.49	1.28	1.23
29	NM	201	PEB	OD-C4D	2.49	1.28	1.23
29	CD	203	PEB	OD-C4D	2.49	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YF	201	PEB	OD-C4D	2.49	1.28	1.23
29	YI	201	PEB	OD-C4D	2.49	1.28	1.23
29	i7	203	PEB	C4B-C3B	2.49	1.49	1.45
29	i9	203	PEB	C4B-C3B	2.49	1.49	1.45
29	j1	203	PEB	C2A-C1A	-2.49	1.49	1.52
29	jK	203	PEB	C2A-C1A	-2.49	1.49	1.52
29	Q2	202	PEB	C4B-C3B	2.48	1.49	1.45
31	HK	1001	CYC	C4C-NC	-2.48	1.32	1.37
29	a1	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	LB	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	aK	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	LM	202	PEB	C2A-C1A	-2.48	1.49	1.52
31	K7	1001	CYC	C1B-NB	-2.48	1.33	1.37
29	kF	201	PEB	OD-C4D	2.48	1.28	1.23
29	kI	201	PEB	OD-C4D	2.48	1.28	1.23
29	KA	202	PEB	C4B-C3B	2.48	1.49	1.45
29	KN	202	PEB	C4B-C3B	2.48	1.49	1.45
29	PB	201	PEB	OD-C4D	2.48	1.28	1.23
29	PM	201	PEB	OD-C4D	2.48	1.28	1.23
29	e7	203	PEB	C4B-C3B	2.48	1.49	1.45
29	e9	203	PEB	C4B-C3B	2.48	1.49	1.45
29	dB	202	PEB	C4B-C3B	2.48	1.49	1.45
29	dM	202	PEB	C4B-C3B	2.48	1.49	1.45
29	C5	201	PEB	C2A-C1A	-2.48	1.49	1.52
29	C8	201	PEB	C2A-C1A	-2.48	1.49	1.52
29	FB	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	FM	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	c7	203	PEB	C4B-C3B	2.48	1.49	1.45
29	c9	203	PEB	C4B-C3B	2.48	1.49	1.45
29	hB	202	PEB	C4B-C3B	2.48	1.49	1.45
29	hM	202	PEB	C4B-C3B	2.48	1.49	1.45
29	TB	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	TM	202	PEB	C2A-C1A	-2.48	1.49	1.52
29	EA	202	PEB	C4B-C3B	2.48	1.49	1.45
29	EN	202	PEB	C4B-C3B	2.48	1.49	1.45
29	fJ	201	PEB	OD-C4D	2.48	1.28	1.23
29	pJ	201	PEB	OD-C4D	2.48	1.28	1.23
29	fL	201	PEB	OD-C4D	2.48	1.28	1.23
29	pL	201	PEB	OD-C4D	2.48	1.28	1.23
29	W2	202	PEB	C4B-C3B	2.48	1.49	1.45
29	CA	202	PEB	C4B-C3B	2.48	1.49	1.45
29	QB	204	PEB	C4B-C3B	2.48	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	QM	204	PEB	C4B-C3B	2.48	1.49	1.45
29	CN	202	PEB	C4B-C3B	2.48	1.49	1.45
29	UB	202	PEB	C4B-C3B	2.48	1.49	1.45
29	MQ	401	PEB	C4B-C3B	2.48	1.49	1.45
29	cB	201	PEB	OD-C4D	2.47	1.28	1.23
29	cM	201	PEB	OD-C4D	2.47	1.28	1.23
29	MA	401	PEB	C4A-NA	-2.47	1.32	1.37
29	rJ	201	PEB	OD-C4D	2.47	1.28	1.23
29	rL	201	PEB	OD-C4D	2.47	1.28	1.23
31	VP	1001	CYC	C4B-NB	-2.47	1.32	1.38
29	P7	203	PEB	C4B-C3B	2.47	1.49	1.45
29	P9	203	PEB	C4B-C3B	2.47	1.49	1.45
31	xP	1001	CYC	C4B-NB	-2.47	1.32	1.38
29	C3	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	CO	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	WB	202	PEB	C4B-C3B	2.47	1.49	1.45
29	WM	202	PEB	C4B-C3B	2.47	1.49	1.45
29	K5	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	HA	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	HN	201	PEB	C2A-C1A	-2.47	1.49	1.52
30	AM	304	PUB	C3C-C4C	2.47	1.51	1.43
29	FJ	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	FL	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	cF	201	PEB	OD-C4D	2.47	1.28	1.23
29	cI	201	PEB	OD-C4D	2.47	1.28	1.23
29	SR	202	PEB	C4B-C3B	2.47	1.49	1.45
29	Z1	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	B5	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	LA	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	ZK	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	LN	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	k7	203	PEB	C4B-C3B	2.47	1.49	1.45
29	k9	203	PEB	C4B-C3B	2.47	1.49	1.45
29	aB	202	PEB	C4B-C3B	2.47	1.49	1.45
29	aM	202	PEB	C4B-C3B	2.47	1.49	1.45
29	aF	201	PEB	OD-C4D	2.47	1.28	1.23
29	aI	201	PEB	OD-C4D	2.47	1.28	1.23
29	QB	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	QM	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	eF	201	PEB	OD-C4D	2.47	1.28	1.23
29	gF	201	PEB	OD-C4D	2.47	1.28	1.23
29	eI	201	PEB	OD-C4D	2.47	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	gI	201	PEB	OD-C4D	2.47	1.28	1.23
29	A5	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	A8	201	PEB	C2A-C1A	-2.47	1.49	1.52
29	MN	401	PEB	C4A-NA	-2.47	1.32	1.37
29	LB	201	PEB	OD-C4D	2.47	1.28	1.23
29	VF	201	PEB	OD-C4D	2.47	1.28	1.23
29	VI	201	PEB	OD-C4D	2.47	1.28	1.23
29	LM	201	PEB	OD-C4D	2.47	1.28	1.23
29	a7	202	PEB	C4A-NA	-2.47	1.32	1.37
29	a9	202	PEB	C4A-NA	-2.47	1.32	1.37
29	uJ	202	PEB	OD-C4D	2.47	1.28	1.23
29	uL	202	PEB	OD-C4D	2.47	1.28	1.23
29	JC	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	JE	202	PEB	C2A-C1A	-2.47	1.49	1.52
29	GB	202	PEB	C4B-C3B	2.47	1.49	1.45
29	lB	202	PEB	C4B-C3B	2.47	1.49	1.45
29	GM	202	PEB	C4B-C3B	2.47	1.49	1.45
29	lM	202	PEB	C4B-C3B	2.47	1.49	1.45
29	DD	201	PEB	C4B-NB	-2.47	1.33	1.38
30	AB	304	PUB	C3C-C4C	2.47	1.51	1.43
29	B8	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	HD	201	PEB	OD-C4D	2.46	1.28	1.23
29	F4	201	PEB	OD-C4D	2.46	1.28	1.23
29	FD	201	PEB	OD-C4D	2.46	1.28	1.23
29	G3	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	HB	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	HM	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	GO	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	mF	201	PEB	OD-C4D	2.46	1.28	1.23
29	mI	201	PEB	OD-C4D	2.46	1.28	1.23
29	fB	202	PEB	C4B-C3B	2.46	1.49	1.45
29	fM	202	PEB	C4B-C3B	2.46	1.49	1.45
29	UR	202	PEB	C4B-C3B	2.46	1.49	1.45
29	A5	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	BA	201	PEB	C2A-C1A	-2.46	1.49	1.52
29	BN	201	PEB	C2A-C1A	-2.46	1.49	1.52
29	fF	202	PEB	C4A-NA	-2.46	1.32	1.37
29	fI	202	PEB	C4A-NA	-2.46	1.32	1.37
29	MB	202	PEB	C4B-C3B	2.46	1.49	1.45
29	MM	202	PEB	C4B-C3B	2.46	1.49	1.45
29	KB	203	PEB	C2A-C1A	-2.46	1.49	1.52
29	gB	202	PEB	C2A-C1A	-2.46	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	KM	203	PEB	C2A-C1A	-2.46	1.49	1.52
29	gM	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	H8	201	PEB	C4A-NA	-2.46	1.32	1.37
29	MN	404	PEB	C4A-NA	-2.46	1.32	1.37
29	ZB	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	ZM	202	PEB	C2A-C1A	-2.46	1.49	1.52
29	D4	201	PEB	C4B-NB	-2.46	1.33	1.38
29	JB	202	PEB	C2A-C1A	-2.45	1.49	1.52
29	wJ	302	PEB	C2A-C1A	-2.45	1.49	1.52
29	JM	202	PEB	C2A-C1A	-2.45	1.49	1.52
29	uJ	201	PEB	C2A-C1A	-2.45	1.49	1.52
29	uL	201	PEB	C2A-C1A	-2.45	1.49	1.52
29	H4	201	PEB	C4B-NB	-2.45	1.33	1.38
29	BD	201	PEB	C4B-NB	-2.45	1.33	1.38
29	F4	201	PEB	C4B-NB	-2.45	1.33	1.38
29	J5	202	PEB	C4A-NA	-2.45	1.32	1.37
29	AF	301	PEB	C2A-C1A	-2.45	1.49	1.52
29	AI	301	PEB	C2A-C1A	-2.45	1.49	1.52
29	CB	202	PEB	C4B-C3B	2.45	1.49	1.45
29	CM	202	PEB	C4B-C3B	2.45	1.49	1.45
29	eF	201	PEB	C4A-NA	-2.45	1.32	1.37
29	eI	201	PEB	C4A-NA	-2.45	1.32	1.37
31	H1	1001	CYC	C4C-NC	-2.45	1.32	1.37
29	m7	203	PEB	C4B-C3B	2.45	1.49	1.45
29	m9	203	PEB	C4B-C3B	2.45	1.49	1.45
29	jB	202	PEB	C4B-C3B	2.45	1.49	1.45
29	jM	202	PEB	C4B-C3B	2.45	1.49	1.45
29	F5	201	PEB	C4A-NA	-2.45	1.32	1.37
29	F8	201	PEB	C4A-NA	-2.45	1.32	1.37
29	K3	202	PEB	C2A-C1A	-2.45	1.49	1.52
29	KO	202	PEB	C2A-C1A	-2.45	1.49	1.52
29	HD	201	PEB	C4B-NB	-2.45	1.33	1.38
29	Y7	202	PEB	C4A-NA	-2.45	1.32	1.37
29	Y9	202	PEB	C4A-NA	-2.45	1.32	1.37
29	iF	201	PEB	C4A-NA	-2.45	1.32	1.37
29	iI	201	PEB	C4A-NA	-2.45	1.32	1.37
29	LD	201	PEB	OD-C4D	2.45	1.28	1.23
29	V7	202	PEB	C4A-NA	-2.44	1.32	1.37
29	c7	202	PEB	C4A-NA	-2.44	1.32	1.37
29	A9	304	PEB	C4A-NA	-2.44	1.32	1.37
29	V9	202	PEB	C4A-NA	-2.44	1.32	1.37
29	c9	202	PEB	C4A-NA	-2.44	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	Z7	201	PEB	C4A-NA	-2.44	1.32	1.37
29	Z9	201	PEB	C4A-NA	-2.44	1.32	1.37
29	kB	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	kM	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	CD	203	PEB	C4A-NA	-2.44	1.32	1.37
29	VF	201	PEB	C4A-NA	-2.44	1.32	1.37
29	VI	201	PEB	C4A-NA	-2.44	1.32	1.37
29	L4	201	PEB	C4B-NB	-2.44	1.33	1.38
29	LD	201	PEB	C4B-NB	-2.44	1.33	1.38
29	YB	201	PEB	C2A-C1A	-2.44	1.49	1.52
29	YM	201	PEB	C2A-C1A	-2.44	1.49	1.52
29	IB	202	PEB	C4B-C3B	2.44	1.49	1.45
29	IM	202	PEB	C4B-C3B	2.44	1.49	1.45
29	SB	202	PEB	C4B-C3B	2.44	1.49	1.45
29	SM	202	PEB	C4B-C3B	2.44	1.49	1.45
29	AJ	203	PEB	C2A-C1A	-2.44	1.49	1.52
29	AL	203	PEB	C2A-C1A	-2.44	1.49	1.52
29	B4	201	PEB	OD-C4D	2.44	1.28	1.23
29	BD	201	PEB	OD-C4D	2.44	1.28	1.23
29	dF	203	PEB	C4A-NA	-2.44	1.32	1.37
29	dI	203	PEB	C4A-NA	-2.44	1.32	1.37
29	RB	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	RM	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	e7	202	PEB	C4A-NA	-2.44	1.32	1.37
29	e9	202	PEB	C4A-NA	-2.44	1.32	1.37
29	O2	201	PEB	OD-C4D	2.44	1.28	1.23
29	MA	404	PEB	C4A-NA	-2.44	1.32	1.37
29	AM	302	PEB	C1A-NA	-2.44	1.34	1.37
29	mB	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	mM	202	PEB	C2A-C1A	-2.44	1.49	1.52
29	B8	201	PEB	C4A-NA	-2.43	1.32	1.37
29	l7	201	PEB	C4A-NA	-2.43	1.32	1.37
29	l9	201	PEB	C4A-NA	-2.43	1.32	1.37
31	J1	1001	CYC	C4C-NC	-2.43	1.32	1.37
31	JK	1001	CYC	C4C-NC	-2.43	1.32	1.37
29	k7	202	PEB	C4A-NA	-2.43	1.32	1.37
29	k9	202	PEB	C4A-NA	-2.43	1.32	1.37
29	TI	201	PEB	C4A-NA	-2.43	1.32	1.37
29	L4	201	PEB	OD-C4D	2.43	1.28	1.23
29	S2	202	PEB	C4B-C3B	2.43	1.49	1.45
29	MG	401	PEB	C2A-C1A	-2.43	1.49	1.52
29	D4	201	PEB	OD-C4D	2.43	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	OB	202	PEB	C4B-C3B	2.43	1.49	1.45
29	OM	202	PEB	C4B-C3B	2.43	1.49	1.45
29	J4	201	PEB	OD-C4D	2.43	1.28	1.23
29	AB	302	PEB	C1A-NA	-2.43	1.34	1.37
29	T7	202	PEB	C4A-NA	-2.43	1.32	1.37
29	T9	202	PEB	C4A-NA	-2.43	1.32	1.37
29	AB	303	PEB	C2A-C1A	-2.43	1.49	1.52
29	ZJ	202	PEB	C2A-C1A	-2.43	1.49	1.52
29	ZL	202	PEB	C2A-C1A	-2.43	1.49	1.52
29	RF	201	PEB	OD-C4D	2.43	1.28	1.23
29	RI	201	PEB	OD-C4D	2.43	1.28	1.23
29	A3	202	PEB	C2A-C1A	-2.43	1.49	1.52
29	AO	202	PEB	C2A-C1A	-2.43	1.49	1.52
29	UF	203	PEB	C4A-NA	-2.43	1.32	1.37
29	UI	203	PEB	C4A-NA	-2.43	1.32	1.37
29	H4	201	PEB	OD-C4D	2.43	1.28	1.23
29	e2	401	PEB	C3C-C4C	-2.43	1.38	1.42
29	m7	202	PEB	C4A-NA	-2.43	1.32	1.37
29	m9	202	PEB	C4A-NA	-2.43	1.32	1.37
29	H5	201	PEB	C4A-NA	-2.43	1.32	1.37
29	OF	202	PEB	C4A-NA	-2.43	1.32	1.37
29	OI	202	PEB	C4A-NA	-2.43	1.32	1.37
29	YB	203	PEB	C4B-C3B	2.43	1.49	1.45
29	YM	203	PEB	C4B-C3B	2.43	1.49	1.45
29	E3	201	PEB	OD-C4D	2.42	1.28	1.23
29	EO	201	PEB	OD-C4D	2.42	1.28	1.23
29	OR	201	PEB	OD-C4D	2.42	1.28	1.23
29	J4	201	PEB	C4B-NB	-2.42	1.33	1.38
29	h1	201	PEB	OD-C4D	2.42	1.28	1.23
29	hK	201	PEB	OD-C4D	2.42	1.28	1.23
29	FC	203	PEB	C2A-C1A	-2.42	1.49	1.52
29	FE	203	PEB	C2A-C1A	-2.42	1.49	1.52
29	WJ	201	PEB	C2A-C1A	-2.42	1.49	1.52
29	WL	201	PEB	C2A-C1A	-2.42	1.49	1.52
29	h7	201	PEB	C4A-NA	-2.42	1.32	1.37
29	h9	201	PEB	C4A-NA	-2.42	1.32	1.37
29	JD	201	PEB	C4B-NB	-2.42	1.33	1.38
29	XJ	202	PEB	C2A-C1A	-2.42	1.49	1.52
29	XL	202	PEB	C2A-C1A	-2.42	1.49	1.52
29	J8	202	PEB	C4A-NA	-2.42	1.32	1.37
29	g7	202	PEB	C4A-NA	-2.42	1.32	1.37
29	g9	202	PEB	C4A-NA	-2.42	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MA	404	PEB	OD-C4D	2.42	1.28	1.23
29	C3	201	PEB	OD-C4D	2.42	1.28	1.23
29	CO	201	PEB	OD-C4D	2.42	1.28	1.23
29	G5	201	PEB	C4A-NA	-2.42	1.32	1.37
29	kF	201	PEB	C4A-NA	-2.42	1.32	1.37
29	kI	201	PEB	C4A-NA	-2.42	1.32	1.37
29	hF	202	PEB	C4A-NA	-2.42	1.32	1.37
29	hI	202	PEB	C4A-NA	-2.42	1.32	1.37
29	wL	301	PEB	OD-C4D	2.42	1.28	1.23
29	QF	202	PEB	C4A-NA	-2.42	1.32	1.37
29	QI	202	PEB	C4A-NA	-2.42	1.32	1.37
29	j1	201	PEB	OD-C4D	2.42	1.28	1.23
29	jK	201	PEB	OD-C4D	2.42	1.28	1.23
29	f7	201	PEB	C4A-NA	-2.42	1.32	1.37
29	f9	201	PEB	C4A-NA	-2.42	1.32	1.37
29	RF	201	PEB	C4A-NA	-2.42	1.32	1.37
29	RI	201	PEB	C4A-NA	-2.42	1.32	1.37
29	DD	201	PEB	OD-C4D	2.42	1.28	1.23
29	rJ	202	PEB	C2A-C1A	-2.42	1.49	1.52
29	rL	202	PEB	C2A-C1A	-2.42	1.49	1.52
29	TI	201	PEB	OD-C4D	2.42	1.28	1.23
29	mF	201	PEB	C4A-NA	-2.41	1.32	1.37
29	mI	201	PEB	C4A-NA	-2.41	1.32	1.37
29	dJ	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	dL	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	AM	303	PEB	C2A-C1A	-2.41	1.49	1.52
29	R7	202	PEB	C4A-NA	-2.41	1.32	1.37
29	R9	202	PEB	C4A-NA	-2.41	1.32	1.37
29	KD	203	PEB	C4A-NA	-2.41	1.32	1.37
29	gF	201	PEB	C4A-NA	-2.41	1.32	1.37
29	gI	201	PEB	C4A-NA	-2.41	1.32	1.37
29	DC	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	DE	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	eR	401	PEB	C3C-C4C	-2.41	1.38	1.42
29	G8	201	PEB	C4A-NA	-2.41	1.32	1.37
29	jF	202	PEB	C4A-NA	-2.41	1.32	1.37
29	FG	203	PEB	C4A-NA	-2.41	1.32	1.37
29	jI	202	PEB	C4A-NA	-2.41	1.32	1.37
31	VP	1001	CYC	CBA-CAA	2.41	1.59	1.52
31	DK	1001	CYC	OB-C4B	2.41	1.28	1.23
31	L1	1001	CYC	C4C-NC	-2.41	1.32	1.37
31	LK	1001	CYC	C4C-NC	-2.41	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	xP	1001	CYC	CBA-CAA	2.41	1.59	1.52
29	JJ	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	JL	202	PEB	C2A-C1A	-2.41	1.49	1.52
29	B5	201	PEB	C4A-NA	-2.41	1.32	1.37
29	b7	201	PEB	C4A-NA	-2.41	1.32	1.37
29	b9	201	PEB	C4A-NA	-2.41	1.32	1.37
29	Q1	201	PEB	OD-C4D	2.41	1.28	1.23
29	QK	201	PEB	OD-C4D	2.41	1.28	1.23
29	d7	201	PEB	C4A-NA	-2.41	1.32	1.37
29	d9	201	PEB	C4A-NA	-2.41	1.32	1.37
29	aB	203	PEB	C2A-C1A	-2.41	1.49	1.52
29	aM	203	PEB	C2A-C1A	-2.41	1.49	1.52
29	aF	201	PEB	C4A-NA	-2.41	1.32	1.37
29	aI	201	PEB	C4A-NA	-2.41	1.32	1.37
29	ZF	202	PEB	C4A-NA	-2.41	1.32	1.37
29	ZI	202	PEB	C4A-NA	-2.41	1.32	1.37
29	P7	202	PEB	C4A-NA	-2.41	1.32	1.37
29	P9	202	PEB	C4A-NA	-2.41	1.32	1.37
31	VP	1001	CYC	OB-C4B	2.41	1.28	1.23
29	W7	201	PEB	C4A-NA	-2.41	1.32	1.37
29	W9	201	PEB	C4A-NA	-2.41	1.32	1.37
29	wJ	301	PEB	OD-C4D	2.41	1.28	1.23
29	LC	203	PEB	C2A-C1A	-2.40	1.49	1.52
29	LE	203	PEB	C2A-C1A	-2.40	1.49	1.52
29	C4	203	PEB	C4A-NA	-2.40	1.32	1.37
29	PF	201	PEB	C4A-NA	-2.40	1.32	1.37
29	bF	202	PEB	C4A-NA	-2.40	1.32	1.37
29	PI	201	PEB	C4A-NA	-2.40	1.32	1.37
29	bI	202	PEB	C4A-NA	-2.40	1.32	1.37
31	xP	1001	CYC	OB-C4B	2.40	1.28	1.23
29	Q7	201	PEB	C4A-NA	-2.40	1.32	1.37
29	Q9	201	PEB	C4A-NA	-2.40	1.32	1.37
29	F7	1002	PEB	OD-C4D	2.40	1.28	1.23
29	MN	404	PEB	OD-C4D	2.40	1.28	1.23
29	UR	201	PEB	OD-C4D	2.40	1.28	1.23
29	i7	202	PEB	C4A-NA	-2.40	1.32	1.37
29	i9	202	PEB	C4A-NA	-2.40	1.32	1.37
29	UR	202	PEB	C2A-C1A	-2.40	1.49	1.52
29	W1	201	PEB	OD-C4D	2.40	1.28	1.23
29	WK	201	PEB	OD-C4D	2.40	1.28	1.23
29	YF	201	PEB	C4A-NA	-2.40	1.32	1.37
29	cF	201	PEB	C4A-NA	-2.40	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YI	201	PEB	C4A-NA	-2.40	1.32	1.37
29	cI	201	PEB	C4A-NA	-2.40	1.32	1.37
29	b1	201	PEB	OD-C4D	2.40	1.28	1.23
29	bK	201	PEB	OD-C4D	2.40	1.28	1.23
29	I3	201	PEB	OD-C4D	2.40	1.28	1.23
29	IO	201	PEB	OD-C4D	2.40	1.28	1.23
29	JA	201	PEB	C4A-NA	-2.40	1.32	1.37
29	JN	201	PEB	C4A-NA	-2.40	1.32	1.37
29	U1	202	PEB	OD-C4D	2.40	1.28	1.23
29	UK	202	PEB	OD-C4D	2.40	1.28	1.23
29	B4	201	PEB	C4B-NB	-2.40	1.33	1.38
29	S1	201	PEB	OD-C4D	2.40	1.28	1.23
29	SK	201	PEB	OD-C4D	2.40	1.28	1.23
29	TJ	202	PEB	C2A-C1A	-2.40	1.49	1.52
29	TL	202	PEB	C2A-C1A	-2.40	1.49	1.52
29	M2	201	PEB	OD-C4D	2.40	1.28	1.23
29	MR	201	PEB	OD-C4D	2.40	1.28	1.23
29	SF	202	PEB	C4A-NA	-2.40	1.32	1.37
29	SI	202	PEB	C4A-NA	-2.40	1.32	1.37
29	xL	301	PEB	OD-C4D	2.40	1.28	1.23
29	BA	201	PEB	C4A-NA	-2.40	1.32	1.37
29	BN	201	PEB	C4A-NA	-2.40	1.32	1.37
31	DK	1001	CYC	C4C-NC	-2.40	1.32	1.37
29	I5	202	PEB	C2A-C1A	-2.40	1.50	1.52
29	I8	202	PEB	C2A-C1A	-2.40	1.50	1.52
29	S7	201	PEB	C4A-NA	-2.40	1.32	1.37
29	S9	201	PEB	C4A-NA	-2.40	1.32	1.37
29	F9	1002	PEB	OD-C4D	2.40	1.28	1.23
29	A7	304	PEB	C4A-NA	-2.39	1.32	1.37
29	K3	201	PEB	OD-C4D	2.39	1.28	1.23
29	KO	201	PEB	OD-C4D	2.39	1.28	1.23
31	F1	1001	CYC	OB-C4B	2.39	1.28	1.23
31	FK	1001	CYC	OB-C4B	2.39	1.28	1.23
29	O7	201	PEB	C4A-NA	-2.39	1.32	1.37
29	O9	201	PEB	C4A-NA	-2.39	1.32	1.37
29	WF	202	PEB	C4A-NA	-2.39	1.32	1.37
29	WI	202	PEB	C4A-NA	-2.39	1.32	1.37
29	K5	202	PEB	C2A-C1A	-2.39	1.50	1.52
29	K8	202	PEB	C2A-C1A	-2.39	1.50	1.52
29	BC	203	PEB	C2A-C1A	-2.39	1.50	1.52
29	BE	203	PEB	C2A-C1A	-2.39	1.50	1.52
29	HJ	201	PEB	C2A-C1A	-2.39	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HL	201	PEB	C2A-C1A	-2.39	1.50	1.52
29	U7	201	PEB	C4A-NA	-2.39	1.32	1.37
29	U9	201	PEB	C4A-NA	-2.39	1.32	1.37
29	BG	203	PEB	C4A-NA	-2.39	1.32	1.37
29	W2	201	PEB	OD-C4D	2.39	1.28	1.23
29	WR	201	PEB	OD-C4D	2.39	1.28	1.23
31	G9	1001	CYC	C4C-NC	-2.39	1.32	1.37
29	LQ	202	PEB	C4A-NA	-2.39	1.32	1.37
30	AF	303	PUB	OA-C1A	2.39	1.28	1.23
30	AI	303	PUB	OA-C1A	2.39	1.28	1.23
31	D1	1001	CYC	OB-C4B	2.39	1.28	1.23
29	L5	202	PEB	C2A-C1A	-2.39	1.50	1.52
29	L5	201	PEB	C4A-NA	-2.39	1.32	1.37
31	G7	1001	CYC	C4C-NC	-2.39	1.32	1.37
31	NK	1001	CYC	C4C-NC	-2.39	1.32	1.37
29	d1	201	PEB	OD-C4D	2.39	1.28	1.23
29	dK	201	PEB	OD-C4D	2.39	1.28	1.23
29	G4	203	PEB	C4A-NA	-2.39	1.32	1.37
29	HA	201	PEB	C4A-NA	-2.39	1.32	1.37
29	HN	201	PEB	C4A-NA	-2.39	1.32	1.37
31	G9	1001	CYC	C4B-NB	-2.39	1.32	1.38
29	L8	201	PEB	C4A-NA	-2.39	1.32	1.37
29	JD	201	PEB	OD-C4D	2.39	1.28	1.23
29	B3	201	PEB	C4A-NA	-2.39	1.32	1.37
29	lF	202	PEB	C4A-NA	-2.39	1.32	1.37
29	II	202	PEB	C4A-NA	-2.39	1.32	1.37
29	BO	201	PEB	C4A-NA	-2.39	1.32	1.37
29	l1	201	PEB	OD-C4D	2.39	1.28	1.23
29	lK	201	PEB	OD-C4D	2.39	1.28	1.23
31	FF	1001	CYC	OB-C4B	2.38	1.28	1.23
31	FI	1001	CYC	OB-C4B	2.38	1.28	1.23
31	F1	1001	CYC	C4C-NC	-2.38	1.32	1.37
31	FK	1001	CYC	C4C-NC	-2.38	1.32	1.37
29	O1	201	PEB	OD-C4D	2.38	1.28	1.23
29	OK	201	PEB	OD-C4D	2.38	1.28	1.23
31	M9	1001	CYC	C4B-NB	-2.38	1.32	1.38
29	GD	203	PEB	C4A-NA	-2.38	1.32	1.37
29	iB	202	PEB	C2A-C1A	-2.38	1.50	1.52
29	iM	202	PEB	C2A-C1A	-2.38	1.50	1.52
31	NF	1001	CYC	OB-C4B	2.38	1.28	1.23
31	NI	1001	CYC	OB-C4B	2.38	1.28	1.23
29	nJ	202	PEB	C2A-C1A	-2.38	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	nL	202	PEB	C2A-C1A	-2.38	1.50	1.52
31	N1	1001	CYC	C4C-NC	-2.38	1.32	1.37
29	DA	201	PEB	C4A-NA	-2.38	1.32	1.37
29	DN	201	PEB	C4A-NA	-2.38	1.32	1.37
31	D1	1001	CYC	C4C-NC	-2.38	1.32	1.37
29	LG	203	PEB	C4A-NA	-2.38	1.32	1.37
31	M7	1001	CYC	C4C-NC	-2.38	1.32	1.37
31	HF	1001	CYC	OB-C4B	2.38	1.28	1.23
31	HI	1001	CYC	OB-C4B	2.38	1.28	1.23
29	JQ	203	PEB	C4A-NA	-2.38	1.32	1.37
29	JF	1002	PEB	OD-C4D	2.38	1.28	1.23
29	JI	1002	PEB	OD-C4D	2.38	1.28	1.23
29	L3	201	PEB	C4A-NA	-2.38	1.32	1.37
29	LO	201	PEB	C4A-NA	-2.38	1.32	1.37
29	xL	301	PEB	C2A-C1A	-2.38	1.50	1.52
29	NF	1002	PEB	OD-C4D	2.38	1.28	1.23
29	NI	1002	PEB	OD-C4D	2.38	1.28	1.23
29	G3	201	PEB	OD-C4D	2.38	1.28	1.23
29	GO	201	PEB	OD-C4D	2.38	1.28	1.23
31	eP	1001	CYC	C4B-NB	-2.38	1.32	1.38
29	I3	202	PEB	C2A-C1A	-2.38	1.50	1.52
29	IO	202	PEB	C2A-C1A	-2.38	1.50	1.52
31	E7	1001	CYC	C4B-NB	-2.38	1.32	1.38
31	E9	1001	CYC	C4B-NB	-2.38	1.32	1.38
31	gP	1001	CYC	C4B-NB	-2.37	1.32	1.38
29	J3	201	PEB	C4A-NA	-2.37	1.32	1.37
29	E4	203	PEB	C4A-NA	-2.37	1.32	1.37
29	j7	201	PEB	C4A-NA	-2.37	1.32	1.37
29	j9	201	PEB	C4A-NA	-2.37	1.32	1.37
29	JO	201	PEB	C4A-NA	-2.37	1.32	1.37
31	M7	1001	CYC	C4B-NB	-2.37	1.32	1.38
29	JG	203	PEB	C4A-NA	-2.37	1.32	1.37
29	N7	1002	PEB	OD-C4D	2.37	1.28	1.23
29	N9	1002	PEB	OD-C4D	2.37	1.28	1.23
29	IJ	202	PEB	C2A-C1A	-2.37	1.50	1.52
29	IL	202	PEB	C2A-C1A	-2.37	1.50	1.52
29	QR	201	PEB	OD-C4D	2.37	1.28	1.23
31	K7	1001	CYC	C4C-NC	-2.37	1.32	1.37
29	BC	201	PEB	C2A-C1A	-2.37	1.50	1.52
29	BE	201	PEB	C2A-C1A	-2.37	1.50	1.52
29	Q2	201	PEB	OD-C4D	2.37	1.28	1.23
31	J1	1001	CYC	OB-C4B	2.37	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	JK	1001	CYC	OB-C4B	2.37	1.28	1.23
29	hJ	202	PEB	C2A-C1A	-2.37	1.50	1.52
29	hL	202	PEB	C2A-C1A	-2.37	1.50	1.52
29	DF	1002	PEB	OD-C4D	2.37	1.28	1.23
29	DI	1002	PEB	OD-C4D	2.37	1.28	1.23
29	Z1	202	PEB	OD-C4D	2.37	1.28	1.23
29	ZK	202	PEB	OD-C4D	2.37	1.28	1.23
31	I7	1001	CYC	C4B-NB	-2.37	1.33	1.38
31	I9	1001	CYC	C4B-NB	-2.37	1.33	1.38
29	FQ	203	PEB	C4A-NA	-2.37	1.32	1.37
29	A3	201	PEB	OD-C4D	2.37	1.28	1.23
29	xJ	301	PEB	OD-C4D	2.37	1.28	1.23
29	AO	201	PEB	OD-C4D	2.37	1.28	1.23
29	kF	202	PEB	C4A-NA	-2.37	1.32	1.37
29	kI	202	PEB	C4A-NA	-2.37	1.32	1.37
31	K9	1001	CYC	C4C-NC	-2.37	1.32	1.37
31	CK	1001	CYC	C4C-NC	-2.37	1.32	1.37
29	HC	203	PEB	C2A-C1A	-2.37	1.50	1.52
29	HE	203	PEB	C2A-C1A	-2.37	1.50	1.52
29	xJ	301	PEB	C2A-C1A	-2.37	1.50	1.52
31	N1	1001	CYC	C1B-NB	-2.37	1.33	1.37
29	MQ	403	PEB	C4A-NA	-2.37	1.32	1.37
29	IJ	203	PEB	C2A-C1A	-2.36	1.50	1.52
29	jJ	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	IL	203	PEB	C2A-C1A	-2.36	1.50	1.52
29	jL	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	JA	201	PEB	C2A-C1A	-2.36	1.50	1.52
29	JN	201	PEB	C2A-C1A	-2.36	1.50	1.52
29	E3	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	JC	201	PEB	C2A-C1A	-2.36	1.50	1.52
29	JE	201	PEB	C2A-C1A	-2.36	1.50	1.52
29	EO	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	K4	203	PEB	C4A-NA	-2.36	1.32	1.37
31	K7	1001	CYC	C4B-NB	-2.36	1.33	1.38
31	K9	1001	CYC	C4B-NB	-2.36	1.33	1.38
29	L7	1002	PEB	OD-C4D	2.36	1.28	1.23
31	lP	1001	CYC	C4B-NB	-2.36	1.33	1.38
31	C1	1001	CYC	C4C-NC	-2.36	1.32	1.37
29	U2	201	PEB	OD-C4D	2.36	1.28	1.23
29	D7	1002	PEB	OD-C4D	2.36	1.28	1.23
29	D9	1002	PEB	OD-C4D	2.36	1.28	1.23
29	J9	1002	PEB	OD-C4D	2.36	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	LF	1001	CYC	OB-C4B	2.36	1.28	1.23
31	LI	1001	CYC	OB-C4B	2.36	1.28	1.23
29	D3	201	PEB	C4A-NA	-2.36	1.32	1.37
29	H3	201	PEB	C4A-NA	-2.36	1.32	1.37
29	eF	202	PEB	C4A-NA	-2.36	1.32	1.37
29	eI	202	PEB	C4A-NA	-2.36	1.32	1.37
29	DO	201	PEB	C4A-NA	-2.36	1.32	1.37
29	HO	201	PEB	C4A-NA	-2.36	1.32	1.37
31	I7	1001	CYC	C4C-NC	-2.36	1.32	1.37
31	I9	1001	CYC	C4C-NC	-2.36	1.32	1.37
31	N1	1001	CYC	OB-C4B	2.36	1.28	1.23
31	mP	1001	CYC	C4B-NB	-2.36	1.33	1.38
29	NJ	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	NL	202	PEB	C2A-C1A	-2.36	1.50	1.52
29	J7	1002	PEB	OD-C4D	2.36	1.28	1.23
31	L1	1001	CYC	OB-C4B	2.36	1.28	1.23
31	LK	1001	CYC	OB-C4B	2.36	1.28	1.23
29	F3	201	PEB	C4A-NA	-2.36	1.32	1.37
29	FO	201	PEB	C4A-NA	-2.36	1.32	1.37
29	fI	201	PEB	OD-C4D	2.36	1.28	1.23
29	fK	201	PEB	OD-C4D	2.36	1.28	1.23
31	NK	1001	CYC	OB-C4B	2.35	1.28	1.23
29	FA	202	PEB	C4B-C3B	2.35	1.49	1.45
29	FN	202	PEB	C4B-C3B	2.35	1.49	1.45
29	VR	201	PEB	C4B-C3B	2.35	1.49	1.45
29	A7	301	PEB	C2A-C1A	-2.35	1.50	1.52
29	A9	301	PEB	C2A-C1A	-2.35	1.50	1.52
31	HK	1001	CYC	OB-C4B	2.35	1.28	1.23
31	RP	1001	CYC	C4B-NB	-2.35	1.33	1.38
29	VF	202	PEB	C4A-NA	-2.35	1.32	1.37
29	dF	201	PEB	C4A-NA	-2.35	1.32	1.37
29	VI	202	PEB	C4A-NA	-2.35	1.32	1.37
29	dI	201	PEB	C4A-NA	-2.35	1.32	1.37
31	G7	1001	CYC	C4B-NB	-2.35	1.33	1.38
29	FA	201	PEB	C4A-NA	-2.35	1.32	1.37
29	FN	201	PEB	C4A-NA	-2.35	1.32	1.37
31	AP	1001	CYC	C4B-NB	-2.35	1.33	1.38
31	C7	1001	CYC	C4C-NC	-2.35	1.32	1.37
31	C9	1001	CYC	C4C-NC	-2.35	1.32	1.37
29	LC	201	PEB	C2A-C1A	-2.35	1.50	1.52
29	LE	201	PEB	C2A-C1A	-2.35	1.50	1.52
29	pJ	202	PEB	C2A-C1A	-2.35	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	pL	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	e7	201	PEB	C4A-NA	-2.35	1.32	1.37
29	e9	201	PEB	C4A-NA	-2.35	1.32	1.37
29	BJ	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	BL	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	HF	1002	PEB	OD-C4D	2.35	1.28	1.23
29	HI	1002	PEB	OD-C4D	2.35	1.28	1.23
29	MQ	403	PEB	OD-C4D	2.35	1.28	1.23
29	JA	202	PEB	C4B-C3B	2.35	1.49	1.45
29	JN	202	PEB	C4B-C3B	2.35	1.49	1.45
29	MD	203	PEB	C4A-NA	-2.35	1.32	1.37
29	h1	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	hK	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	iF	202	PEB	C4A-NA	-2.35	1.32	1.37
29	iI	202	PEB	C4A-NA	-2.35	1.32	1.37
29	fJ	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	fL	202	PEB	C2A-C1A	-2.35	1.50	1.52
29	MN	405	PEB	C2A-C1A	-2.35	1.50	1.52
31	C7	1001	CYC	C4B-NB	-2.35	1.33	1.38
31	C9	1001	CYC	C4B-NB	-2.35	1.33	1.38
31	JP	1001	CYC	C4B-NB	-2.35	1.33	1.38
29	DA	202	PEB	C4B-C3B	2.35	1.49	1.45
29	DN	202	PEB	C4B-C3B	2.35	1.49	1.45
29	N3	203	PEB	C4A-NA	-2.35	1.32	1.37
29	mF	202	PEB	C4A-NA	-2.34	1.32	1.37
29	mI	202	PEB	C4A-NA	-2.34	1.32	1.37
31	E7	1001	CYC	C4C-NC	-2.34	1.32	1.37
31	E9	1001	CYC	C4C-NC	-2.34	1.32	1.37
31	M9	1001	CYC	C4C-NC	-2.34	1.32	1.37
31	KP	1001	CYC	C4B-NB	-2.34	1.33	1.38
29	d1	201	PEB	C4A-NA	-2.34	1.32	1.37
29	dK	201	PEB	C4A-NA	-2.34	1.32	1.37
31	IK	1001	CYC	C4C-NC	-2.34	1.32	1.37
31	tP	1001	CYC	C4B-NB	-2.34	1.33	1.38
29	L9	1002	PEB	OD-C4D	2.34	1.28	1.23
29	ID	203	PEB	C4A-NA	-2.34	1.32	1.37
29	gF	202	PEB	C4A-NA	-2.34	1.32	1.37
29	gI	202	PEB	C4A-NA	-2.34	1.32	1.37
29	H7	1002	PEB	OD-C4D	2.34	1.28	1.23
29	H9	1002	PEB	OD-C4D	2.34	1.28	1.23
29	l1	202	PEB	C2A-C1A	-2.34	1.50	1.52
29	lK	202	PEB	C2A-C1A	-2.34	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YF	202	PEB	C4A-NA	-2.34	1.32	1.37
29	YI	202	PEB	C4A-NA	-2.34	1.32	1.37
29	G8	202	PEB	C2A-C1A	-2.34	1.50	1.52
29	HC	201	PEB	C2A-C1A	-2.34	1.50	1.52
29	HE	201	PEB	C2A-C1A	-2.34	1.50	1.52
29	bJ	202	PEB	C2A-C1A	-2.34	1.50	1.52
29	bL	202	PEB	C2A-C1A	-2.34	1.50	1.52
31	rP	1001	CYC	C4B-NB	-2.34	1.33	1.38
29	M3	203	PEB	C4A-NA	-2.34	1.32	1.37
29	LA	201	PEB	C4A-NA	-2.34	1.32	1.37
29	LN	201	PEB	C4A-NA	-2.34	1.32	1.37
29	MO	203	PEB	C4A-NA	-2.34	1.32	1.37
29	ED	202	PEB	C4A-NA	-2.34	1.32	1.37
29	HG	203	PEB	C4A-NA	-2.34	1.32	1.37
29	V2	201	PEB	C4B-C3B	2.34	1.49	1.45
29	RJ	202	PEB	C2A-C1A	-2.34	1.50	1.52
29	RL	202	PEB	C2A-C1A	-2.34	1.50	1.52
29	PF	202	PEB	C4A-NA	-2.34	1.32	1.37
29	PI	202	PEB	C4A-NA	-2.34	1.32	1.37
29	HQ	203	PEB	C4A-NA	-2.34	1.32	1.37
29	A1	301	PEB	C4A-NA	-2.34	1.32	1.37
29	AK	301	PEB	C4A-NA	-2.34	1.32	1.37
31	M1	1001	CYC	C4C-NC	-2.34	1.32	1.37
31	MK	1001	CYC	C4C-NC	-2.34	1.32	1.37
29	UF	201	PEB	C4A-NA	-2.34	1.32	1.37
29	MG	401	PEB	C4A-NA	-2.34	1.32	1.37
29	UI	201	PEB	C4A-NA	-2.34	1.32	1.37
31	OP	1001	CYC	C4A-C3A	2.34	1.50	1.45
29	HA	202	PEB	C4B-C3B	2.33	1.49	1.45
29	HN	202	PEB	C4B-C3B	2.33	1.49	1.45
29	O1	202	PEB	C2A-C1A	-2.33	1.50	1.52
29	OK	202	PEB	C2A-C1A	-2.33	1.50	1.52
29	ZJ	203	PEB	C4A-NA	-2.33	1.32	1.37
29	ZL	203	PEB	C4A-NA	-2.33	1.32	1.37
31	EK	1001	CYC	C4C-NC	-2.33	1.32	1.37
29	A3	201	PEB	C4A-NA	-2.33	1.32	1.37
29	AO	201	PEB	C4A-NA	-2.33	1.32	1.37
31	qP	1001	CYC	C4A-C3A	2.33	1.50	1.45
29	rJ	203	PEB	C4A-NA	-2.33	1.32	1.37
29	rL	203	PEB	C4A-NA	-2.33	1.32	1.37
29	MR	202	PEB	C4B-C3B	2.33	1.49	1.45
31	iP	1001	CYC	C4B-NB	-2.33	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	Z1	202	PEB	C4A-NA	-2.33	1.32	1.37
29	ZK	202	PEB	C4A-NA	-2.33	1.32	1.37
31	TP	1001	CYC	C4B-NB	-2.33	1.33	1.38
29	sJ	203	PEB	C2A-C1A	-2.33	1.50	1.52
29	sL	203	PEB	C2A-C1A	-2.33	1.50	1.52
31	GP	1001	CYC	C4B-NB	-2.33	1.33	1.38
29	DC	201	PEB	C2A-C1A	-2.33	1.50	1.52
29	DE	201	PEB	C2A-C1A	-2.33	1.50	1.52
29	FF	1002	PEB	C4A-NA	-2.33	1.32	1.37
29	FI	1002	PEB	C4A-NA	-2.33	1.32	1.37
29	FF	1002	PEB	OD-C4D	2.33	1.28	1.23
29	FI	1002	PEB	OD-C4D	2.33	1.28	1.23
29	j1	201	PEB	C4A-NA	-2.33	1.32	1.37
29	jK	201	PEB	C4A-NA	-2.33	1.32	1.37
31	vP	1001	CYC	C4B-NB	-2.33	1.33	1.38
31	GK	1001	CYC	C4C-NC	-2.33	1.32	1.37
29	U1	202	PEB	C4A-NA	-2.33	1.32	1.37
29	OF	203	PEB	C4A-NA	-2.33	1.32	1.37
29	OI	203	PEB	C4A-NA	-2.33	1.32	1.37
29	UK	202	PEB	C4A-NA	-2.33	1.32	1.37
29	BQ	203	PEB	C4A-NA	-2.33	1.32	1.37
31	DF	1001	CYC	OB-C4B	2.33	1.28	1.23
31	DI	1001	CYC	OB-C4B	2.33	1.28	1.23
31	pP	1001	CYC	C4B-NB	-2.33	1.33	1.38
29	G3	201	PEB	C4A-NA	-2.33	1.32	1.37
29	GO	201	PEB	C4A-NA	-2.33	1.32	1.37
29	Z1	203	PEB	C2A-C1A	-2.33	1.50	1.52
29	ZK	203	PEB	C2A-C1A	-2.33	1.50	1.52
29	MQ	403	PEB	C2A-C1A	-2.33	1.50	1.52
29	W1	201	PEB	C4A-NA	-2.33	1.32	1.37
29	WK	201	PEB	C4A-NA	-2.33	1.32	1.37
31	JF	1001	CYC	OB-C4B	2.33	1.28	1.23
31	JI	1001	CYC	OB-C4B	2.33	1.28	1.23
29	QF	201	PEB	C4A-NA	-2.33	1.32	1.37
29	QI	201	PEB	C4A-NA	-2.33	1.32	1.37
31	cP	1001	CYC	C4B-NB	-2.32	1.33	1.38
31	NP	1001	CYC	C4B-NB	-2.32	1.33	1.38
31	I1	1001	CYC	C4C-NC	-2.32	1.32	1.37
29	S1	201	PEB	C4A-NA	-2.32	1.32	1.37
29	SK	201	PEB	C4A-NA	-2.32	1.32	1.37
29	H5	202	PEB	C2A-C1A	-2.32	1.50	1.52
29	FA	201	PEB	C2A-C1A	-2.32	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	FN	201	PEB	C2A-C1A	-2.32	1.50	1.52
29	WF	201	PEB	C4A-NA	-2.32	1.32	1.37
29	WI	201	PEB	C4A-NA	-2.32	1.32	1.37
31	L9	1001	CYC	C1B-NB	-2.32	1.33	1.37
29	W1	202	PEB	C2A-C1A	-2.32	1.50	1.52
29	WK	202	PEB	C2A-C1A	-2.32	1.50	1.52
29	K3	201	PEB	C4A-NA	-2.32	1.32	1.37
29	KO	201	PEB	C4A-NA	-2.32	1.32	1.37
29	IF	201	PEB	C4A-NA	-2.32	1.32	1.37
29	II	201	PEB	C4A-NA	-2.32	1.32	1.37
31	K1	1001	CYC	C4C-NC	-2.32	1.32	1.37
31	KK	1001	CYC	C4C-NC	-2.32	1.32	1.37
29	BA	202	PEB	C4B-C3B	2.32	1.49	1.45
29	BN	202	PEB	C4B-C3B	2.32	1.49	1.45
29	aF	202	PEB	C4A-NA	-2.32	1.32	1.37
29	aI	202	PEB	C4A-NA	-2.32	1.32	1.37
29	fF	201	PEB	C4A-NA	-2.32	1.32	1.37
29	fI	201	PEB	C4A-NA	-2.32	1.32	1.37
29	LF	1002	PEB	OD-C4D	2.32	1.28	1.23
29	LI	1002	PEB	OD-C4D	2.32	1.28	1.23
29	F5	202	PEB	C2A-C1A	-2.32	1.50	1.52
29	F8	202	PEB	C2A-C1A	-2.32	1.50	1.52
29	C3	201	PEB	C4A-NA	-2.32	1.32	1.37
29	CO	201	PEB	C4A-NA	-2.32	1.32	1.37
31	SP	1001	CYC	C4A-C3A	2.32	1.50	1.45
29	DG	203	PEB	C4A-NA	-2.32	1.32	1.37
31	H7	1001	CYC	C1B-NB	-2.32	1.33	1.37
31	H9	1001	CYC	C1B-NB	-2.32	1.33	1.37
29	H8	202	PEB	C2A-C1A	-2.32	1.50	1.52
31	E1	1001	CYC	C4C-NC	-2.32	1.32	1.37
29	fI	201	PEB	C4A-NA	-2.32	1.32	1.37
29	LJ	202	PEB	C4A-NA	-2.32	1.32	1.37
29	IJ	203	PEB	C4A-NA	-2.32	1.32	1.37
29	fK	201	PEB	C4A-NA	-2.32	1.32	1.37
29	LL	202	PEB	C4A-NA	-2.32	1.32	1.37
29	IL	203	PEB	C4A-NA	-2.32	1.32	1.37
31	DP	1001	CYC	C4A-C3A	2.32	1.50	1.45
29	NO	203	PEB	C4A-NA	-2.31	1.32	1.37
29	AC	201	PEB	C2A-C1A	-2.31	1.50	1.52
29	AE	201	PEB	C2A-C1A	-2.31	1.50	1.52
29	JJ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	pJ	202	PEB	C4A-NA	-2.31	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	JL	203	PEB	C4A-NA	-2.31	1.32	1.37
29	pL	202	PEB	C4A-NA	-2.31	1.32	1.37
31	NK	1001	CYC	C1B-NB	-2.31	1.33	1.37
29	FJ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	FL	203	PEB	C4A-NA	-2.31	1.32	1.37
31	EP	1001	CYC	C4B-NB	-2.31	1.33	1.38
29	h1	201	PEB	C4A-NA	-2.31	1.32	1.37
29	dF	202	PEB	C4A-NA	-2.31	1.32	1.37
29	jF	201	PEB	C4A-NA	-2.31	1.32	1.37
29	dI	202	PEB	C4A-NA	-2.31	1.32	1.37
29	jI	201	PEB	C4A-NA	-2.31	1.32	1.37
29	hJ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	hK	201	PEB	C4A-NA	-2.31	1.32	1.37
29	hL	203	PEB	C4A-NA	-2.31	1.32	1.37
31	CP	1001	CYC	C4B-NB	-2.31	1.33	1.38
29	b1	201	PEB	C4A-NA	-2.31	1.32	1.37
29	hJ	202	PEB	C4A-NA	-2.31	1.32	1.37
29	bK	201	PEB	C4A-NA	-2.31	1.32	1.37
29	hL	202	PEB	C4A-NA	-2.31	1.32	1.37
31	UP	1001	CYC	C4A-C3A	2.31	1.50	1.45
29	O1	201	PEB	C4A-NA	-2.31	1.32	1.37
29	OK	201	PEB	C4A-NA	-2.31	1.32	1.37
29	DQ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	I3	201	PEB	C4A-NA	-2.31	1.32	1.37
29	IO	201	PEB	C4A-NA	-2.31	1.32	1.37
29	MG	401	PEB	OD-C4D	2.31	1.28	1.23
29	i7	201	PEB	C4A-NA	-2.31	1.32	1.37
29	i9	201	PEB	C4A-NA	-2.31	1.32	1.37
29	dJ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	dL	203	PEB	C4A-NA	-2.31	1.32	1.37
29	PJ	202	PEB	C2A-C1A	-2.31	1.50	1.52
29	PL	202	PEB	C2A-C1A	-2.31	1.50	1.52
29	E3	201	PEB	C4A-NA	-2.31	1.32	1.37
29	NJ	203	PEB	C4A-NA	-2.31	1.32	1.37
29	NL	203	PEB	C4A-NA	-2.31	1.32	1.37
29	EO	201	PEB	C4A-NA	-2.31	1.32	1.37
29	G5	202	PEB	C2A-C1A	-2.31	1.50	1.52
29	L8	202	PEB	C2A-C1A	-2.31	1.50	1.52
29	TF	201	PEB	C2A-C1A	-2.31	1.50	1.52
31	D1	1003	CYC	C4C-NC	-2.31	1.32	1.37
29	U2	202	PEB	C2A-C1A	-2.31	1.50	1.52
31	1P	1001	CYC	C4A-C3A	2.30	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	A1	302	PEB	C2A-C1A	-2.30	1.50	1.52
29	AK	302	PEB	C2A-C1A	-2.30	1.50	1.52
29	XR	201	PEB	C4B-C3B	2.30	1.49	1.45
29	KC	202	PEB	C2A-C1A	-2.30	1.50	1.52
29	KE	202	PEB	C2A-C1A	-2.30	1.50	1.52
31	QP	1001	CYC	C4A-C3A	2.30	1.50	1.45
29	Y7	201	PEB	C4A-NA	-2.30	1.32	1.37
29	c7	201	PEB	C4A-NA	-2.30	1.32	1.37
29	Y9	201	PEB	C4A-NA	-2.30	1.32	1.37
29	c9	201	PEB	C4A-NA	-2.30	1.32	1.37
29	ZF	201	PEB	C4A-NA	-2.30	1.32	1.37
29	ZI	201	PEB	C4A-NA	-2.30	1.32	1.37
31	XP	1001	CYC	C4A-C3A	2.30	1.50	1.45
29	P7	201	PEB	C4A-NA	-2.30	1.32	1.37
29	P9	201	PEB	C4A-NA	-2.30	1.32	1.37
29	UF	202	PEB	C4A-NA	-2.30	1.32	1.37
29	UI	202	PEB	C4A-NA	-2.30	1.32	1.37
31	wP	1001	CYC	C4A-C3A	2.30	1.50	1.45
29	LF	1002	PEB	C4A-NA	-2.30	1.32	1.37
29	LI	1002	PEB	C4A-NA	-2.30	1.32	1.37
29	EG	202	PEB	C4B-C3B	2.30	1.49	1.45
29	EQ	202	PEB	C4B-C3B	2.30	1.49	1.45
29	LA	202	PEB	C4B-C3B	2.30	1.49	1.45
29	LN	202	PEB	C4B-C3B	2.30	1.49	1.45
31	L7	1001	CYC	C1B-NB	-2.30	1.34	1.37
29	Q1	201	PEB	C4A-NA	-2.30	1.32	1.37
29	BJ	203	PEB	C4A-NA	-2.30	1.32	1.37
29	HJ	202	PEB	C4A-NA	-2.30	1.32	1.37
29	QK	201	PEB	C4A-NA	-2.30	1.32	1.37
29	BL	203	PEB	C4A-NA	-2.30	1.32	1.37
29	HL	202	PEB	C4A-NA	-2.30	1.32	1.37
31	PP	1001	CYC	C4B-NB	-2.30	1.33	1.38
31	oP	1001	CYC	C4A-C3A	2.30	1.50	1.45
29	R7	201	PEB	C4A-NA	-2.30	1.32	1.37
29	R9	201	PEB	C4A-NA	-2.30	1.32	1.37
29	pJ	203	PEB	C4A-NA	-2.30	1.32	1.37
29	pL	203	PEB	C4A-NA	-2.30	1.32	1.37
31	jP	1001	CYC	C4A-C3A	2.30	1.50	1.45
29	k7	201	PEB	C4A-NA	-2.30	1.32	1.37
29	k9	201	PEB	C4A-NA	-2.30	1.32	1.37
29	HF	1002	PEB	C4A-NA	-2.30	1.32	1.37
29	HI	1002	PEB	C4A-NA	-2.30	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BJ	202	PEB	C4A-NA	-2.30	1.32	1.37
29	BL	202	PEB	C4A-NA	-2.30	1.32	1.37
29	GG	202	PEB	C4B-C3B	2.30	1.49	1.45
29	GQ	202	PEB	C4B-C3B	2.30	1.49	1.45
29	d1	202	PEB	C2A-C1A	-2.30	1.50	1.52
29	dK	202	PEB	C2A-C1A	-2.30	1.50	1.52
29	sJ	203	PEB	C4A-NA	-2.30	1.32	1.37
29	sL	203	PEB	C4A-NA	-2.30	1.32	1.37
31	H1	1001	CYC	OB-C4B	2.30	1.28	1.23
31	KI	1001	CYC	C1D-CHD	2.30	1.50	1.41
29	Q1	202	PEB	C2A-C1A	-2.30	1.50	1.52
29	QK	202	PEB	C2A-C1A	-2.30	1.50	1.52
29	OF	201	PEB	C4A-NA	-2.30	1.32	1.37
29	OI	201	PEB	C4A-NA	-2.30	1.32	1.37
29	S7	201	PEB	OD-C4D	2.30	1.28	1.23
29	S9	201	PEB	OD-C4D	2.30	1.28	1.23
29	bJ	203	PEB	C4A-NA	-2.30	1.32	1.37
29	bL	203	PEB	C4A-NA	-2.30	1.32	1.37
29	M2	202	PEB	C4A-NA	-2.30	1.32	1.37
29	TJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	TL	203	PEB	C4A-NA	-2.29	1.32	1.37
31	fP	1001	CYC	C4A-C3A	2.29	1.50	1.45
31	uP	1001	CYC	C4A-C3A	2.29	1.50	1.45
29	HC	202	PEB	C4B-C3B	2.29	1.49	1.45
29	HE	202	PEB	C4B-C3B	2.29	1.49	1.45
31	IF	1001	CYC	C1D-CHD	2.29	1.50	1.41
31	II	1001	CYC	C1D-CHD	2.29	1.50	1.41
31	FP	1001	CYC	C4A-C3A	2.29	1.50	1.45
31	MP	1001	CYC	C4A-C3A	2.29	1.50	1.45
31	D1	1003	CYC	C1B-NB	-2.29	1.34	1.37
31	CF	1001	CYC	C1D-CHD	2.29	1.50	1.41
31	CI	1001	CYC	C1D-CHD	2.29	1.50	1.41
29	l1	201	PEB	C4A-NA	-2.29	1.32	1.37
29	lK	201	PEB	C4A-NA	-2.29	1.32	1.37
31	BP	1001	CYC	C4A-C3A	2.29	1.50	1.45
29	FJ	202	PEB	C4A-NA	-2.29	1.32	1.37
29	dJ	202	PEB	C4A-NA	-2.29	1.32	1.37
29	fJ	202	PEB	C4A-NA	-2.29	1.32	1.37
29	FL	202	PEB	C4A-NA	-2.29	1.32	1.37
29	dL	202	PEB	C4A-NA	-2.29	1.32	1.37
29	fL	202	PEB	C4A-NA	-2.29	1.32	1.37
29	fJ	203	PEB	C4A-NA	-2.29	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	fL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	jL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	RJ	202	PEB	C4A-NA	-2.29	1.32	1.37
29	RL	202	PEB	C4A-NA	-2.29	1.32	1.37
29	nJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	nL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	BB	301	PEB	C3A-C4A	2.29	1.54	1.50
29	BM	301	PEB	C3A-C4A	2.29	1.54	1.50
29	DJ	202	PEB	C4A-NA	-2.29	1.32	1.37
29	XJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	DL	202	PEB	C4A-NA	-2.29	1.32	1.37
29	XL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	H7	1002	PEB	C4A-NA	-2.29	1.32	1.37
29	H9	1002	PEB	C4A-NA	-2.29	1.32	1.37
31	hP	1001	CYC	C4A-C3A	2.29	1.50	1.45
29	g7	201	PEB	C4A-NA	-2.29	1.32	1.37
29	g9	201	PEB	C4A-NA	-2.29	1.32	1.37
29	AJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	IJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	RJ	203	PEB	C4A-NA	-2.29	1.32	1.37
29	AL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	IL	203	PEB	C4A-NA	-2.29	1.32	1.37
29	RL	203	PEB	C4A-NA	-2.29	1.32	1.37
31	KF	1001	CYC	C1D-CHD	2.29	1.50	1.41
29	O7	201	PEB	OD-C4D	2.28	1.27	1.23
29	O9	201	PEB	OD-C4D	2.28	1.27	1.23
29	bF	201	PEB	C4A-NA	-2.28	1.32	1.37
29	hF	201	PEB	C4A-NA	-2.28	1.32	1.37
29	bI	201	PEB	C4A-NA	-2.28	1.32	1.37
29	hI	201	PEB	C4A-NA	-2.28	1.32	1.37
29	TJ	202	PEB	C4A-NA	-2.28	1.32	1.37
29	TL	202	PEB	C4A-NA	-2.28	1.32	1.37
31	MF	1001	CYC	C1D-CHD	2.28	1.50	1.41
31	MI	1001	CYC	C1D-CHD	2.28	1.50	1.41
29	h7	201	PEB	OD-C4D	2.28	1.27	1.23
29	h9	201	PEB	OD-C4D	2.28	1.27	1.23
29	PJ	203	PEB	C4A-NA	-2.28	1.32	1.37
29	PL	203	PEB	C4A-NA	-2.28	1.32	1.37
29	h7	202	PEB	C2A-C1A	-2.28	1.50	1.52
29	h9	202	PEB	C2A-C1A	-2.28	1.50	1.52
29	DF	1002	PEB	C4A-NA	-2.28	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	DI	1002	PEB	C4A-NA	-2.28	1.32	1.37
29	Y1	201	PEB	C4A-NA	-2.28	1.32	1.37
29	a7	201	PEB	C4A-NA	-2.28	1.32	1.37
29	a9	201	PEB	C4A-NA	-2.28	1.32	1.37
29	YK	201	PEB	C4A-NA	-2.28	1.32	1.37
29	EC	201	PEB	C2A-C1A	-2.28	1.50	1.52
29	EE	201	PEB	C2A-C1A	-2.28	1.50	1.52
29	nJ	202	PEB	C4A-NA	-2.28	1.32	1.37
29	nL	202	PEB	C4A-NA	-2.28	1.32	1.37
29	FC	202	PEB	C4B-C3B	2.28	1.49	1.45
29	FE	202	PEB	C4B-C3B	2.28	1.49	1.45
29	tJ	202	PEB	C4A-NA	-2.28	1.32	1.37
29	tL	202	PEB	C4A-NA	-2.28	1.32	1.37
29	m7	201	PEB	C4A-NA	-2.28	1.32	1.37
29	m9	201	PEB	C4A-NA	-2.28	1.32	1.37
29	T1	201	PEB	C4A-NA	-2.28	1.32	1.37
29	TK	201	PEB	C4A-NA	-2.28	1.32	1.37
31	kP	1001	CYC	C4A-C3A	2.28	1.50	1.45
31	GF	1001	CYC	C1D-CHD	2.28	1.49	1.41
31	GI	1001	CYC	C1D-CHD	2.28	1.49	1.41
29	JG	202	PEB	C4A-NA	-2.28	1.32	1.37
29	JQ	202	PEB	C4A-NA	-2.28	1.32	1.37
31	EF	1001	CYC	C1D-CHD	2.28	1.49	1.41
31	EI	1001	CYC	C1D-CHD	2.28	1.49	1.41
31	EK	1001	CYC	C1B-NB	-2.28	1.34	1.37
29	b7	201	PEB	OD-C4D	2.28	1.27	1.23
29	b9	201	PEB	OD-C4D	2.28	1.27	1.23
29	JD	201	PEB	CHA-C1B	2.28	1.45	1.40
29	f7	202	PEB	C2A-C1A	-2.28	1.50	1.52
29	f9	202	PEB	C2A-C1A	-2.28	1.50	1.52
29	WJ	201	PEB	C4A-NA	-2.28	1.32	1.37
29	WL	201	PEB	C4A-NA	-2.28	1.32	1.37
29	IG	202	PEB	C4B-C3B	2.28	1.49	1.45
29	IQ	202	PEB	C4B-C3B	2.28	1.49	1.45
31	N7	1001	CYC	C1B-NB	-2.28	1.34	1.37
31	N9	1001	CYC	C1B-NB	-2.28	1.34	1.37
29	NF	1002	PEB	C4A-NA	-2.28	1.32	1.37
29	NI	1002	PEB	C4A-NA	-2.28	1.32	1.37
29	uJ	201	PEB	C4A-NA	-2.28	1.32	1.37
29	uL	201	PEB	C4A-NA	-2.28	1.32	1.37
29	Z7	201	PEB	OD-C4D	2.28	1.27	1.23
29	Z9	201	PEB	OD-C4D	2.28	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	NJ	202	PEB	C4A-NA	-2.28	1.32	1.37
29	NL	202	PEB	C4A-NA	-2.28	1.32	1.37
31	IP	1001	CYC	C4A-C3A	2.27	1.50	1.45
29	l7	201	PEB	OD-C4D	2.27	1.27	1.23
29	l9	201	PEB	OD-C4D	2.27	1.27	1.23
29	KC	201	PEB	C4B-C3B	2.27	1.49	1.45
29	KE	201	PEB	C4B-C3B	2.27	1.49	1.45
29	H3	202	PEB	C1D-ND	2.27	1.49	1.45
29	HO	202	PEB	C1D-ND	2.27	1.49	1.45
29	V7	201	PEB	C4A-NA	-2.27	1.32	1.37
29	V9	201	PEB	C4A-NA	-2.27	1.32	1.37
29	JJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	JL	202	PEB	C4A-NA	-2.27	1.32	1.37
31	F7	1001	CYC	C1B-NB	-2.27	1.34	1.37
29	a1	201	PEB	C4A-NA	-2.27	1.32	1.37
29	aK	201	PEB	C4A-NA	-2.27	1.32	1.37
29	DA	201	PEB	C2A-C1A	-2.27	1.50	1.52
29	DN	201	PEB	C2A-C1A	-2.27	1.50	1.52
29	PF	203	PEB	C4A-NA	-2.27	1.32	1.37
29	PI	203	PEB	C4A-NA	-2.27	1.32	1.37
29	yJ	301	PEB	C4A-NA	-2.27	1.32	1.37
29	yL	301	PEB	C4A-NA	-2.27	1.32	1.37
29	WR	202	PEB	C4A-NA	-2.27	1.32	1.37
31	sP	1001	CYC	C4A-C3A	2.27	1.50	1.45
29	vJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	vL	202	PEB	C4A-NA	-2.27	1.32	1.37
29	UR	202	PEB	C4A-NA	-2.27	1.32	1.37
31	F9	1001	CYC	C1B-NB	-2.27	1.34	1.37
29	J9	1002	PEB	C4A-NA	-2.27	1.32	1.37
29	SF	201	PEB	C4A-NA	-2.27	1.32	1.37
29	SI	201	PEB	C4A-NA	-2.27	1.32	1.37
29	HJ	201	PEB	C4A-NA	-2.27	1.32	1.37
29	HL	201	PEB	C4A-NA	-2.27	1.32	1.37
31	VP	1001	CYC	C4A-C3A	2.27	1.50	1.45
29	kF	201	PEB	C4B-C3B	2.27	1.49	1.45
29	kI	201	PEB	C4B-C3B	2.27	1.49	1.45
29	TF	202	PEB	C4A-NA	-2.27	1.32	1.37
29	TI	202	PEB	C4A-NA	-2.27	1.32	1.37
29	VJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	VL	202	PEB	C4A-NA	-2.27	1.32	1.37
31	HP	1001	CYC	C4A-C3A	2.27	1.50	1.45
29	RR	201	PEB	C4B-C3B	2.27	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	HG	202	PEB	C4A-NA	-2.27	1.32	1.37
29	jJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	jL	202	PEB	C4A-NA	-2.27	1.32	1.37
29	HQ	202	PEB	C4A-NA	-2.27	1.32	1.37
31	F1	1001	CYC	C1B-NB	-2.27	1.34	1.37
31	J7	1001	CYC	C1B-NB	-2.27	1.34	1.37
31	FK	1001	CYC	C1B-NB	-2.27	1.34	1.37
29	JF	1002	PEB	C4A-NA	-2.27	1.32	1.37
29	JI	1002	PEB	C4A-NA	-2.27	1.32	1.37
29	BC	202	PEB	C4B-C3B	2.27	1.49	1.45
29	BE	202	PEB	C4B-C3B	2.27	1.49	1.45
29	CG	202	PEB	C4B-C3B	2.27	1.49	1.45
29	CQ	202	PEB	C4B-C3B	2.27	1.49	1.45
31	mP	1001	CYC	C4D-CHA	2.27	1.49	1.41
29	R2	201	PEB	C4B-C3B	2.27	1.49	1.45
29	CC	202	PEB	C4B-C3B	2.27	1.49	1.45
29	CE	202	PEB	C4B-C3B	2.27	1.49	1.45
29	f7	201	PEB	OD-C4D	2.27	1.27	1.23
29	f9	201	PEB	OD-C4D	2.27	1.27	1.23
31	E1	1001	CYC	C1B-NB	-2.27	1.34	1.37
29	J7	1002	PEB	C4A-NA	-2.27	1.32	1.37
29	T7	201	PEB	C4A-NA	-2.27	1.32	1.37
29	T9	201	PEB	C4A-NA	-2.27	1.32	1.37
29	lJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	lL	202	PEB	C4A-NA	-2.27	1.32	1.37
29	V2	201	PEB	C4A-NA	-2.27	1.32	1.37
29	rJ	202	PEB	C4A-NA	-2.27	1.32	1.37
29	rL	202	PEB	C4A-NA	-2.27	1.32	1.37
29	P1	201	PEB	C4A-NA	-2.26	1.32	1.37
29	k1	201	PEB	C4A-NA	-2.26	1.32	1.37
29	PK	201	PEB	C4A-NA	-2.26	1.32	1.37
29	kK	201	PEB	C4A-NA	-2.26	1.32	1.37
29	N2	201	PEB	C4A-NA	-2.26	1.32	1.37
29	W2	202	PEB	C4A-NA	-2.26	1.32	1.37
31	RP	1001	CYC	C4D-CHA	2.26	1.49	1.41
31	K1	1001	CYC	C1B-NB	-2.26	1.34	1.37
31	KK	1001	CYC	C1B-NB	-2.26	1.34	1.37
29	S2	202	PEB	C4A-NA	-2.26	1.32	1.37
29	mF	203	PEB	C4A-NA	-2.26	1.32	1.37
29	mI	203	PEB	C4A-NA	-2.26	1.32	1.37
29	N2	201	PEB	C4B-C3B	2.26	1.49	1.45
29	NR	201	PEB	C4B-C3B	2.26	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	PP	1001	CYC	C4D-CHA	2.26	1.49	1.41
31	eP	1001	CYC	C4D-CHA	2.26	1.49	1.41
29	j7	201	PEB	OD-C4D	2.26	1.27	1.23
29	j9	201	PEB	OD-C4D	2.26	1.27	1.23
29	i1	201	PEB	C4A-NA	-2.26	1.32	1.37
29	VB	202	PEB	C4A-NA	-2.26	1.32	1.37
29	iK	201	PEB	C4A-NA	-2.26	1.32	1.37
29	VM	202	PEB	C4A-NA	-2.26	1.32	1.37
31	D7	1001	CYC	C1B-NB	-2.26	1.34	1.37
31	D9	1001	CYC	C1B-NB	-2.26	1.34	1.37
29	V1	201	PEB	C4A-NA	-2.26	1.32	1.37
29	VK	201	PEB	C4A-NA	-2.26	1.32	1.37
31	GK	1001	CYC	C1B-NB	-2.26	1.34	1.37
29	AF	304	PEB	OD-C4D	2.26	1.27	1.23
29	AI	304	PEB	OD-C4D	2.26	1.27	1.23
31	DK	1001	CYC	C1B-NB	-2.26	1.34	1.37
29	Q7	201	PEB	OD-C4D	2.26	1.27	1.23
29	Q9	201	PEB	OD-C4D	2.26	1.27	1.23
29	LG	202	PEB	C4A-NA	-2.26	1.32	1.37
29	LQ	201	PEB	C4A-NA	-2.26	1.32	1.37
31	gP	1001	CYC	C4D-CHA	2.26	1.49	1.41
29	GC	201	PEB	C2A-C1A	-2.26	1.50	1.52
29	GE	201	PEB	C2A-C1A	-2.26	1.50	1.52
31	NP	1001	CYC	C4D-CHA	2.26	1.49	1.41
31	KP	1001	CYC	C4D-CHA	2.26	1.49	1.41
29	b1	202	PEB	C2A-C1A	-2.26	1.50	1.52
29	FC	201	PEB	C2A-C1A	-2.26	1.50	1.52
29	IC	201	PEB	C2A-C1A	-2.26	1.50	1.52
29	FE	201	PEB	C2A-C1A	-2.26	1.50	1.52
29	IE	201	PEB	C2A-C1A	-2.26	1.50	1.52
29	bK	202	PEB	C2A-C1A	-2.26	1.50	1.52
31	1P	1002	CYC	C4B-NB	-2.26	1.33	1.38
29	XJ	202	PEB	C4A-NA	-2.26	1.32	1.37
29	ZJ	202	PEB	C4A-NA	-2.26	1.32	1.37
29	XL	202	PEB	C4A-NA	-2.26	1.32	1.37
29	ZL	202	PEB	C4A-NA	-2.26	1.32	1.37
29	BG	202	PEB	C4A-NA	-2.26	1.32	1.37
29	BQ	202	PEB	C4A-NA	-2.26	1.32	1.37
31	L1	1001	CYC	C1B-NB	-2.26	1.34	1.37
31	M1	1001	CYC	C1B-NB	-2.26	1.34	1.37
31	LK	1001	CYC	C1B-NB	-2.26	1.34	1.37
31	MK	1001	CYC	C1B-NB	-2.26	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AC	203	PEB	C4B-C3B	2.26	1.49	1.45
29	AE	203	PEB	C4B-C3B	2.26	1.49	1.45
29	bJ	202	PEB	C4A-NA	-2.26	1.32	1.37
29	bL	202	PEB	C4A-NA	-2.26	1.32	1.37
29	QR	202	PEB	C4A-NA	-2.26	1.32	1.37
29	TR	201	PEB	C4A-NA	-2.26	1.32	1.37
31	I7	1001	CYC	C1D-CHD	2.26	1.49	1.41
31	I9	1001	CYC	C1D-CHD	2.26	1.49	1.41
29	EG	202	PEB	C4A-NA	-2.25	1.32	1.37
29	EQ	202	PEB	C4A-NA	-2.25	1.32	1.37
29	F3	202	PEB	C1D-ND	2.25	1.49	1.45
29	FO	202	PEB	C1D-ND	2.25	1.49	1.45
29	LC	202	PEB	C4B-C3B	2.25	1.49	1.45
29	LE	202	PEB	C4B-C3B	2.25	1.49	1.45
29	W7	201	PEB	OD-C4D	2.25	1.27	1.23
29	W9	201	PEB	OD-C4D	2.25	1.27	1.23
31	CK	1001	CYC	C1D-CHD	2.25	1.49	1.41
29	d7	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	d9	202	PEB	C2A-C1A	-2.25	1.50	1.52
31	C1	1001	CYC	C1D-CHD	2.25	1.49	1.41
31	rP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	KG	202	PEB	C4B-C3B	2.25	1.49	1.45
29	KQ	202	PEB	C4B-C3B	2.25	1.49	1.45
29	c1	201	PEB	C4A-NA	-2.25	1.32	1.37
29	cK	201	PEB	C4A-NA	-2.25	1.32	1.37
31	xP	1001	CYC	C4A-C3A	2.25	1.50	1.45
29	S2	201	PEB	C2A-C1A	-2.25	1.50	1.52
29	PJ	202	PEB	C4A-NA	-2.25	1.32	1.37
29	PL	202	PEB	C4A-NA	-2.25	1.32	1.37
31	tP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	NR	201	PEB	C4A-NA	-2.25	1.32	1.37
31	CP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	VR	201	PEB	C4A-NA	-2.25	1.32	1.37
31	yP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	d7	201	PEB	OD-C4D	2.25	1.27	1.23
29	d9	201	PEB	OD-C4D	2.25	1.27	1.23
29	JB	202	PEB	C4A-NA	-2.25	1.32	1.37
29	JM	202	PEB	C4A-NA	-2.25	1.32	1.37
31	G7	1001	CYC	C1D-CHD	2.25	1.49	1.41
29	I3	203	PEB	C1D-ND	2.25	1.49	1.45
29	IO	203	PEB	C1D-ND	2.25	1.49	1.45
31	CK	1001	CYC	C1B-NB	-2.25	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	AP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	lB	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	lM	202	PEB	C2A-C1A	-2.25	1.50	1.52
31	lP	1001	CYC	C4D-CHA	2.25	1.49	1.41
31	l1	1001	CYC	C1B-NB	-2.25	1.34	1.37
29	N7	1002	PEB	C4A-NA	-2.25	1.32	1.37
29	N9	1002	PEB	C4A-NA	-2.25	1.32	1.37
29	S1	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	SK	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	TR	201	PEB	C4B-C3B	2.25	1.49	1.45
31	I1	1001	CYC	C1D-CHD	2.25	1.49	1.41
31	JP	1001	CYC	C4D-CHA	2.25	1.49	1.41
29	F4	201	PEB	CHA-C1B	2.25	1.45	1.40
29	j1	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	Z7	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	Z9	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	JA	203	PEB	C2A-C1A	-2.25	1.50	1.52
29	jK	202	PEB	C2A-C1A	-2.25	1.50	1.52
29	JN	203	PEB	C2A-C1A	-2.25	1.50	1.52
29	F9	1002	PEB	C4A-NA	-2.25	1.32	1.37
29	BB	301	PEB	C1B-C2B	2.25	1.50	1.45
29	BM	301	PEB	C1B-C2B	2.25	1.50	1.45
31	cP	1001	CYC	C4D-CHA	2.24	1.49	1.41
31	nP	1001	CYC	C4A-C3A	2.24	1.50	1.45
31	IK	1001	CYC	C1B-NB	-2.24	1.34	1.37
29	e2	402	PEB	C4B-C3B	2.24	1.49	1.45
29	iF	203	PEB	C4A-NA	-2.24	1.32	1.37
29	iI	203	PEB	C4A-NA	-2.24	1.32	1.37
31	iP	1001	CYC	C4D-CHA	2.24	1.49	1.41
29	aF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	aI	201	PEB	C4B-C3B	2.24	1.49	1.45
29	U7	201	PEB	OD-C4D	2.24	1.27	1.23
29	U9	201	PEB	OD-C4D	2.24	1.27	1.23
29	B4	201	PEB	CHA-C1B	2.24	1.45	1.40
29	H4	201	PEB	CHA-C1B	2.24	1.45	1.40
31	M1	1001	CYC	C1D-CHD	2.24	1.49	1.41
31	MK	1001	CYC	C1D-CHD	2.24	1.49	1.41
29	YF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	YI	201	PEB	C4B-C3B	2.24	1.49	1.45
29	cB	202	PEB	C4A-NA	-2.24	1.32	1.37
29	cM	202	PEB	C4A-NA	-2.24	1.32	1.37
29	XR	201	PEB	C4A-NA	-2.24	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YF	203	PEB	C4A-NA	-2.24	1.32	1.37
29	YI	203	PEB	C4A-NA	-2.24	1.32	1.37
31	GP	1001	CYC	C4D-CHA	2.24	1.49	1.41
29	VF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	eF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	VI	201	PEB	C4B-C3B	2.24	1.49	1.45
29	eI	201	PEB	C4B-C3B	2.24	1.49	1.45
29	S7	202	PEB	C2A-C1A	-2.24	1.50	1.52
29	S9	202	PEB	C2A-C1A	-2.24	1.50	1.52
29	FA	201	PEB	C4B-C3B	2.24	1.49	1.45
29	FN	201	PEB	C4B-C3B	2.24	1.49	1.45
29	J3	202	PEB	C1D-ND	2.24	1.49	1.45
29	JO	202	PEB	C1D-ND	2.24	1.49	1.45
29	iF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	iI	201	PEB	C4B-C3B	2.24	1.49	1.45
29	TB	202	PEB	C4A-NA	-2.24	1.32	1.37
29	gB	202	PEB	C4A-NA	-2.24	1.32	1.37
29	TM	202	PEB	C4A-NA	-2.24	1.32	1.37
29	gM	202	PEB	C4A-NA	-2.24	1.32	1.37
29	g1	201	PEB	C4A-NA	-2.24	1.32	1.37
29	LB	202	PEB	C4A-NA	-2.24	1.32	1.37
29	gK	201	PEB	C4A-NA	-2.24	1.32	1.37
29	LM	202	PEB	C4A-NA	-2.24	1.32	1.37
31	pP	1001	CYC	C4D-CHA	2.24	1.49	1.41
29	YB	201	PEB	C4A-NA	-2.24	1.32	1.37
29	YM	201	PEB	C4A-NA	-2.24	1.32	1.37
31	E7	1001	CYC	C1D-CHD	2.24	1.49	1.41
31	E9	1001	CYC	C1D-CHD	2.24	1.49	1.41
29	RF	201	PEB	C4B-C3B	2.24	1.49	1.45
29	RI	201	PEB	C4B-C3B	2.24	1.49	1.45
31	C1	1001	CYC	C1B-NB	-2.24	1.34	1.37
29	R2	201	PEB	C4A-NA	-2.24	1.32	1.37
29	A7	301	PEB	C4A-NA	-2.24	1.32	1.37
29	A9	301	PEB	C4A-NA	-2.24	1.32	1.37
29	cF	202	PEB	C4A-NA	-2.24	1.32	1.37
29	cI	202	PEB	C4A-NA	-2.24	1.32	1.37
29	RR	201	PEB	C4A-NA	-2.24	1.32	1.37
29	QB	202	PEB	C4A-NA	-2.24	1.32	1.37
29	QM	202	PEB	C4A-NA	-2.24	1.32	1.37
29	KC	203	PEB	C4B-C3B	2.24	1.49	1.45
29	KE	203	PEB	C4B-C3B	2.24	1.49	1.45
31	K7	1001	CYC	C1D-CHD	2.24	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	R1	201	PEB	C4A-NA	-2.24	1.32	1.37
29	RK	201	PEB	C4A-NA	-2.24	1.32	1.37
31	G9	1001	CYC	C1D-CHD	2.24	1.49	1.41
31	HK	1001	CYC	C1B-NB	-2.24	1.34	1.37
29	m1	201	PEB	C4A-NA	-2.24	1.32	1.37
29	kF	203	PEB	C4A-NA	-2.24	1.32	1.37
29	kI	203	PEB	C4A-NA	-2.24	1.32	1.37
29	mK	201	PEB	C4A-NA	-2.24	1.32	1.37
29	UF	202	PEB	OD-C4D	2.24	1.27	1.23
29	UI	202	PEB	OD-C4D	2.24	1.27	1.23
31	E1	1001	CYC	C1D-CHD	2.24	1.49	1.41
29	CG	202	PEB	C4A-NA	-2.24	1.32	1.37
29	CQ	202	PEB	C4A-NA	-2.24	1.32	1.37
31	C7	1001	CYC	C1D-CHD	2.24	1.49	1.41
31	C9	1001	CYC	C1D-CHD	2.24	1.49	1.41
29	A5	201	PEB	C4A-NA	-2.24	1.32	1.37
29	A8	201	PEB	C4A-NA	-2.24	1.32	1.37
31	J1	1001	CYC	C1B-NB	-2.24	1.34	1.37
31	JK	1001	CYC	C1B-NB	-2.24	1.34	1.37
31	EP	1001	CYC	C4D-CHA	2.23	1.49	1.41
31	K9	1001	CYC	C1D-CHD	2.23	1.49	1.41
31	vP	1001	CYC	C4D-CHA	2.23	1.49	1.41
29	BD	201	PEB	CHA-C1B	2.23	1.45	1.40
29	e1	201	PEB	C4A-NA	-2.23	1.32	1.37
29	eK	201	PEB	C4A-NA	-2.23	1.32	1.37
29	ZF	201	PEB	OD-C4D	2.23	1.27	1.23
29	ZI	201	PEB	OD-C4D	2.23	1.27	1.23
31	D1	1001	CYC	C4B-NB	-2.23	1.33	1.38
29	SR	202	PEB	C2A-C1A	-2.23	1.50	1.52
29	FG	202	PEB	C4A-NA	-2.23	1.32	1.37
29	FQ	202	PEB	C4A-NA	-2.23	1.32	1.37
31	H1	1001	CYC	C1B-NB	-2.23	1.34	1.37
31	F1	1001	CYC	C4B-NB	-2.23	1.33	1.38
31	FK	1001	CYC	C4B-NB	-2.23	1.33	1.38
31	WP	1001	CYC	C4D-CHA	2.23	1.49	1.41
29	D7	1002	PEB	C4A-NA	-2.23	1.32	1.37
29	D9	1002	PEB	C4A-NA	-2.23	1.32	1.37
29	gF	203	PEB	C4A-NA	-2.23	1.32	1.37
29	gI	203	PEB	C4A-NA	-2.23	1.32	1.37
31	DK	1001	CYC	C4B-NB	-2.23	1.33	1.38
31	EK	1001	CYC	C1D-CHD	2.23	1.49	1.41
29	IG	202	PEB	C4A-NA	-2.23	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	IQ	202	PEB	C4A-NA	-2.23	1.32	1.37
29	U1	203	PEB	C2A-C1A	-2.23	1.50	1.52
29	UK	203	PEB	C2A-C1A	-2.23	1.50	1.52
31	TP	1001	CYC	C4D-CHA	2.23	1.49	1.41
29	DD	201	PEB	CHA-C1B	2.23	1.45	1.40
29	IC	202	PEB	C4B-C3B	2.23	1.49	1.45
29	IE	202	PEB	C4B-C3B	2.23	1.49	1.45
29	U7	202	PEB	C2A-C1A	-2.23	1.50	1.52
29	U9	202	PEB	C2A-C1A	-2.23	1.50	1.52
31	M7	1001	CYC	C1D-CHD	2.23	1.49	1.41
29	O2	202	PEB	C4A-NA	-2.23	1.32	1.37
29	L7	1002	PEB	C4A-NA	-2.23	1.32	1.37
29	aF	203	PEB	C4A-NA	-2.23	1.32	1.37
29	aI	203	PEB	C4A-NA	-2.23	1.32	1.37
29	V2	203	PEB	C4A-NA	-2.23	1.32	1.37
29	SF	201	PEB	OD-C4D	2.23	1.27	1.23
29	SI	201	PEB	OD-C4D	2.23	1.27	1.23
29	Q2	202	PEB	C4A-NA	-2.23	1.32	1.37
29	VF	203	PEB	C4A-NA	-2.23	1.32	1.37
29	VI	203	PEB	C4A-NA	-2.23	1.32	1.37
29	IB	202	PEB	C2A-C1A	-2.23	1.50	1.52
29	IM	202	PEB	C2A-C1A	-2.23	1.50	1.52
29	HB	202	PEB	C4A-NA	-2.23	1.32	1.37
29	AF	301	PEB	C4A-NA	-2.23	1.32	1.37
29	AI	301	PEB	C4A-NA	-2.23	1.32	1.37
29	HM	202	PEB	C4A-NA	-2.23	1.32	1.37
31	IK	1001	CYC	C1D-CHD	2.23	1.49	1.41
29	UB	202	PEB	C2A-C1A	-2.23	1.50	1.52
29	MQ	401	PEB	C2A-C1A	-2.23	1.50	1.52
31	D1	1003	CYC	C1D-CHD	2.23	1.49	1.41
29	mF	201	PEB	C4B-C3B	2.23	1.49	1.45
29	mI	201	PEB	C4B-C3B	2.23	1.49	1.45
29	X2	202	PEB	C4A-NA	-2.23	1.32	1.37
31	M9	1001	CYC	C1D-CHD	2.23	1.49	1.41
31	J1	1001	CYC	C4B-NB	-2.23	1.33	1.38
31	JK	1001	CYC	C4B-NB	-2.23	1.33	1.38
31	D1	1001	CYC	C1B-NB	-2.22	1.34	1.37
29	ZB	201	PEB	C4A-NA	-2.22	1.32	1.37
29	eF	203	PEB	C4A-NA	-2.22	1.32	1.37
29	eI	203	PEB	C4A-NA	-2.22	1.32	1.37
29	ZM	201	PEB	C4A-NA	-2.22	1.32	1.37
31	J9	1001	CYC	C1B-NB	-2.22	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	cF	201	PEB	C4B-C3B	2.22	1.49	1.45
29	cI	201	PEB	C4B-C3B	2.22	1.49	1.45
29	SR	201	PEB	C4B-C3B	2.22	1.49	1.45
29	GC	202	PEB	C4B-C3B	2.22	1.49	1.45
29	GE	202	PEB	C4B-C3B	2.22	1.49	1.45
29	FD	201	PEB	CHA-C1B	2.22	1.45	1.40
31	GK	1001	CYC	C1D-CHD	2.22	1.49	1.41
29	b7	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	b9	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	DG	202	PEB	C4A-NA	-2.22	1.32	1.37
29	DQ	202	PEB	C4A-NA	-2.22	1.32	1.37
31	KI	1001	CYC	C4B-NB	-2.22	1.33	1.38
29	FB	202	PEB	C4A-NA	-2.22	1.32	1.37
29	FM	202	PEB	C4A-NA	-2.22	1.32	1.37
29	J4	201	PEB	CHA-C1B	2.22	1.45	1.40
29	U2	202	PEB	C4A-NA	-2.22	1.32	1.37
29	S2	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	HA	203	PEB	C2A-C1A	-2.22	1.50	1.52
29	HN	203	PEB	C2A-C1A	-2.22	1.50	1.52
29	kB	202	PEB	C4A-NA	-2.22	1.32	1.37
29	kM	202	PEB	C4A-NA	-2.22	1.32	1.37
29	T2	201	PEB	C4A-NA	-2.22	1.32	1.37
29	KB	203	PEB	C4A-NA	-2.22	1.32	1.37
29	KM	203	PEB	C4A-NA	-2.22	1.32	1.37
29	QF	201	PEB	OD-C4D	2.22	1.27	1.23
29	QI	201	PEB	OD-C4D	2.22	1.27	1.23
31	K1	1001	CYC	C1D-CHD	2.22	1.49	1.41
31	KK	1001	CYC	C1D-CHD	2.22	1.49	1.41
29	C5	201	PEB	C4A-NA	-2.22	1.32	1.37
29	C8	201	PEB	C4A-NA	-2.22	1.32	1.37
29	EB	201	PEB	C4A-NA	-2.22	1.32	1.37
29	EM	201	PEB	C4A-NA	-2.22	1.32	1.37
29	dF	202	PEB	OD-C4D	2.22	1.27	1.23
29	dI	202	PEB	OD-C4D	2.22	1.27	1.23
29	W7	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	j7	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	W9	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	j9	202	PEB	C2A-C1A	-2.22	1.50	1.52
29	F7	1002	PEB	C4A-NA	-2.22	1.32	1.37
29	HA	201	PEB	C4B-C3B	2.22	1.49	1.45
29	HN	201	PEB	C4B-C3B	2.22	1.49	1.45
29	B3	202	PEB	C1D-ND	2.22	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BO	202	PEB	C1D-ND	2.22	1.49	1.45
29	fF	201	PEB	OD-C4D	2.22	1.27	1.23
29	fI	201	PEB	OD-C4D	2.22	1.27	1.23
29	OR	202	PEB	C4B-C3B	2.22	1.49	1.45
29	dB	201	PEB	C4A-NA	-2.22	1.32	1.37
29	dM	201	PEB	C4A-NA	-2.22	1.32	1.37
29	D3	202	PEB	C4B-C3B	2.22	1.49	1.45
29	DO	202	PEB	C4B-C3B	2.22	1.49	1.45
29	AG	202	PEB	C4B-C3B	2.21	1.49	1.45
29	AQ	202	PEB	C4B-C3B	2.21	1.49	1.45
29	L4	201	PEB	CHA-C1B	2.21	1.45	1.40
29	LD	201	PEB	CHA-C1B	2.21	1.45	1.40
29	CB	202	PEB	C2A-C1A	-2.21	1.50	1.52
29	CM	202	PEB	C2A-C1A	-2.21	1.50	1.52
29	JA	201	PEB	C4B-C3B	2.21	1.49	1.45
29	JN	201	PEB	C4B-C3B	2.21	1.49	1.45
31	J9	1001	CYC	C4A-C3A	2.21	1.50	1.45
29	P2	202	PEB	C4A-NA	-2.21	1.32	1.37
29	DB	202	PEB	C4A-NA	-2.21	1.32	1.37
29	DM	202	PEB	C4A-NA	-2.21	1.32	1.37
29	G3	202	PEB	C4B-C3B	2.21	1.49	1.45
29	K3	202	PEB	C4B-C3B	2.21	1.49	1.45
29	GO	202	PEB	C4B-C3B	2.21	1.49	1.45
29	KO	202	PEB	C4B-C3B	2.21	1.49	1.45
29	KG	202	PEB	C4A-NA	-2.21	1.32	1.37
29	MN	405	PEB	C4A-NA	-2.21	1.32	1.37
29	KQ	202	PEB	C4A-NA	-2.21	1.32	1.37
31	J7	1001	CYC	C4A-C3A	2.21	1.50	1.45
29	mB	202	PEB	C4A-NA	-2.21	1.32	1.37
29	RF	202	PEB	C4A-NA	-2.21	1.32	1.37
29	RI	202	PEB	C4A-NA	-2.21	1.32	1.37
29	mM	202	PEB	C4A-NA	-2.21	1.32	1.37
29	C3	202	PEB	C4B-C3B	2.21	1.49	1.45
29	CO	202	PEB	C4B-C3B	2.21	1.49	1.45
29	A5	202	PEB	C4A-NA	-2.21	1.32	1.37
29	MA	405	PEB	C4A-NA	-2.21	1.32	1.37
29	AB	301	PEB	C2A-C1A	-2.21	1.50	1.52
29	KB	202	PEB	C2A-C1A	-2.21	1.50	1.52
29	KM	202	PEB	C2A-C1A	-2.21	1.50	1.52
31	YP	1000	CYC	C4B-NB	-2.21	1.33	1.38
29	hB	201	PEB	C4A-NA	-2.21	1.32	1.37
29	hM	201	PEB	C4A-NA	-2.21	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	a1	201	PEB	OD-C4D	2.21	1.27	1.23
29	aK	201	PEB	OD-C4D	2.21	1.27	1.23
31	EF	1001	CYC	C4B-NB	-2.21	1.33	1.38
31	EI	1001	CYC	C4B-NB	-2.21	1.33	1.38
29	OF	201	PEB	OD-C4D	2.21	1.27	1.23
29	OI	201	PEB	OD-C4D	2.21	1.27	1.23
31	D7	1001	CYC	C4A-C3A	2.21	1.50	1.45
31	D9	1001	CYC	C4A-C3A	2.21	1.50	1.45
31	GF	1001	CYC	C4B-NB	-2.21	1.33	1.38
31	GI	1001	CYC	C4B-NB	-2.21	1.33	1.38
29	T2	201	PEB	C4B-C3B	2.21	1.49	1.45
29	I5	201	PEB	C4A-NA	-2.21	1.32	1.37
29	I8	201	PEB	C4A-NA	-2.21	1.32	1.37
29	PF	201	PEB	C4B-C3B	2.21	1.49	1.45
29	gF	201	PEB	C4B-C3B	2.21	1.49	1.45
29	PI	201	PEB	C4B-C3B	2.21	1.49	1.45
29	gI	201	PEB	C4B-C3B	2.21	1.49	1.45
31	YP	1000	CYC	C4A-C3A	2.21	1.50	1.45
31	1P	1002	CYC	C4A-C3A	2.21	1.50	1.45
29	U7	201	PEB	CHA-C4A	-2.21	1.32	1.36
29	U9	201	PEB	CHA-C4A	-2.21	1.32	1.36
29	e2	402	PEB	C4A-NA	-2.21	1.32	1.37
29	TI	201	PEB	C4B-C3B	2.21	1.49	1.45
29	aB	203	PEB	C4A-NA	-2.20	1.32	1.37
29	aM	203	PEB	C4A-NA	-2.20	1.32	1.37
29	OB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	OM	201	PEB	C4A-NA	-2.20	1.32	1.37
29	VR	203	PEB	C4A-NA	-2.20	1.32	1.37
31	H7	1001	CYC	C4A-C3A	2.20	1.50	1.45
31	H9	1001	CYC	C4A-C3A	2.20	1.50	1.45
29	K5	201	PEB	C4A-NA	-2.20	1.32	1.37
29	K8	201	PEB	C4A-NA	-2.20	1.32	1.37
29	lB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	lM	201	PEB	C4A-NA	-2.20	1.32	1.37
31	N1	1001	CYC	C4B-NB	-2.20	1.33	1.38
31	KF	1001	CYC	C4B-NB	-2.20	1.33	1.38
29	YB	202	PEB	C4A-NA	-2.20	1.32	1.37
29	YM	202	PEB	C4A-NA	-2.20	1.32	1.37
29	iB	202	PEB	C4A-NA	-2.20	1.32	1.37
29	iM	202	PEB	C4A-NA	-2.20	1.32	1.37
29	BA	201	PEB	C4B-C3B	2.20	1.49	1.45
29	BN	201	PEB	C4B-C3B	2.20	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	DK	1002	PEB	C4A-NA	-2.20	1.32	1.37
29	HD	201	PEB	CHA-C1B	2.20	1.45	1.40
29	l7	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	l9	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	OB	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	OM	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	EC	202	PEB	C4B-C3B	2.20	1.49	1.45
29	EE	202	PEB	C4B-C3B	2.20	1.49	1.45
29	mB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	mM	201	PEB	C4A-NA	-2.20	1.32	1.37
30	MA	403	PUB	C4B-CHB	2.20	1.49	1.41
29	aB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	aM	201	PEB	C4A-NA	-2.20	1.32	1.37
31	mP	1001	CYC	OB-C4B	2.20	1.27	1.23
29	A7	305	PEB	C4A-NA	-2.20	1.32	1.37
29	A9	305	PEB	C4A-NA	-2.20	1.32	1.37
29	c1	201	PEB	OD-C4D	2.20	1.27	1.23
29	cK	201	PEB	OD-C4D	2.20	1.27	1.23
29	A3	202	PEB	C4B-C3B	2.20	1.49	1.45
29	AO	202	PEB	C4B-C3B	2.20	1.49	1.45
29	K5	202	PEB	C4A-NA	-2.20	1.32	1.37
29	K8	202	PEB	C4A-NA	-2.20	1.32	1.37
29	IB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	IM	201	PEB	C4A-NA	-2.20	1.32	1.37
31	VP	1001	CYC	CBA-CGA	2.20	1.55	1.50
29	hF	201	PEB	OD-C4D	2.20	1.27	1.23
29	hI	201	PEB	OD-C4D	2.20	1.27	1.23
29	J1	1002	PEB	C4A-NA	-2.20	1.32	1.37
29	JK	1002	PEB	C4A-NA	-2.20	1.32	1.37
29	SR	202	PEB	C4A-NA	-2.20	1.32	1.37
29	O7	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	O9	202	PEB	C2A-C1A	-2.20	1.50	1.52
29	e1	201	PEB	OD-C4D	2.20	1.27	1.23
29	eK	201	PEB	OD-C4D	2.20	1.27	1.23
29	E3	202	PEB	C4B-C3B	2.20	1.49	1.45
29	EO	202	PEB	C4B-C3B	2.20	1.49	1.45
29	KB	201	PEB	C4A-NA	-2.20	1.32	1.37
29	KM	201	PEB	C4A-NA	-2.20	1.32	1.37
31	NK	1001	CYC	C4B-NB	-2.19	1.33	1.38
29	R1	201	PEB	OD-C4D	2.19	1.27	1.23
29	RK	201	PEB	OD-C4D	2.19	1.27	1.23
29	GB	201	PEB	C4A-NA	-2.19	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	GM	201	PEB	C4A-NA	-2.19	1.32	1.37
29	C5	202	PEB	C4A-NA	-2.19	1.32	1.37
29	C8	202	PEB	C4A-NA	-2.19	1.32	1.37
29	ZB	202	PEB	C4A-NA	-2.19	1.32	1.37
29	ZM	202	PEB	C4A-NA	-2.19	1.32	1.37
29	kB	201	PEB	C4A-NA	-2.19	1.32	1.37
29	GG	202	PEB	C4A-NA	-2.19	1.32	1.37
29	kM	201	PEB	C4A-NA	-2.19	1.32	1.37
29	GQ	202	PEB	C4A-NA	-2.19	1.32	1.37
32	k6	301	PMS	O3S-S	2.19	1.55	1.47
32	kH	301	PMS	O3S-S	2.19	1.55	1.47
29	oJ	202	PEB	C4A-NA	-2.19	1.32	1.37
29	oL	202	PEB	C4A-NA	-2.19	1.32	1.37
29	A5	203	PEB	C4A-NA	-2.19	1.32	1.37
29	A8	203	PEB	C4A-NA	-2.19	1.32	1.37
29	YJ	202	PEB	C4A-NA	-2.19	1.32	1.37
29	YL	202	PEB	C4A-NA	-2.19	1.32	1.37
29	W2	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	RB	202	PEB	C4A-NA	-2.19	1.32	1.37
29	HK	1002	PEB	C4A-NA	-2.19	1.32	1.37
29	RM	202	PEB	C4A-NA	-2.19	1.32	1.37
29	XB	201	PEB	C4A-NA	-2.19	1.32	1.37
29	XM	201	PEB	C4A-NA	-2.19	1.32	1.37
29	AB	301	PEB	C4B-C3B	2.19	1.49	1.45
30	MN	403	PUB	C1C-C2C	2.19	1.49	1.45
31	MF	1001	CYC	C4B-NB	-2.19	1.33	1.38
31	MI	1001	CYC	C4B-NB	-2.19	1.33	1.38
29	SJ	202	PEB	C4A-NA	-2.19	1.32	1.37
29	SL	202	PEB	C4A-NA	-2.19	1.32	1.37
29	XR	203	PEB	C4A-NA	-2.19	1.32	1.37
31	N7	1001	CYC	C4A-C3A	2.19	1.50	1.45
31	N9	1001	CYC	C4A-C3A	2.19	1.50	1.45
29	gB	203	PEB	C4A-NA	-2.19	1.32	1.37
29	gM	203	PEB	C4A-NA	-2.19	1.32	1.37
29	D4	201	PEB	CHA-C1B	2.19	1.45	1.40
29	WF	201	PEB	OD-C4D	2.19	1.27	1.23
29	WI	201	PEB	OD-C4D	2.19	1.27	1.23
31	L7	1001	CYC	C4A-C3A	2.19	1.50	1.45
29	WB	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	WM	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	jF	201	PEB	OD-C4D	2.19	1.27	1.23
29	lF	201	PEB	OD-C4D	2.19	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	jI	201	PEB	OD-C4D	2.19	1.27	1.23
29	II	201	PEB	OD-C4D	2.19	1.27	1.23
29	j7	201	PEB	CHA-C4A	-2.19	1.32	1.36
29	j9	201	PEB	CHA-C4A	-2.19	1.32	1.36
29	fB	201	PEB	C4A-NA	-2.19	1.32	1.37
29	fM	201	PEB	C4A-NA	-2.19	1.32	1.37
29	L9	1002	PEB	C4A-NA	-2.19	1.32	1.37
29	cB	201	PEB	C4A-NA	-2.19	1.32	1.37
29	AG	202	PEB	C4A-NA	-2.19	1.32	1.37
29	cM	201	PEB	C4A-NA	-2.19	1.32	1.37
29	AQ	202	PEB	C4A-NA	-2.19	1.32	1.37
29	aB	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	aM	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	AJ	202	PEB	C4A-NA	-2.19	1.32	1.37
29	AL	202	PEB	C4A-NA	-2.19	1.32	1.37
29	G8	202	PEB	C4A-NA	-2.19	1.32	1.37
29	EB	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	EM	202	PEB	C2A-C1A	-2.19	1.50	1.52
29	DA	201	PEB	C4B-C3B	2.19	1.49	1.45
29	DN	201	PEB	C4B-C3B	2.19	1.49	1.45
29	L5	202	PEB	C4A-NA	-2.19	1.32	1.37
29	TB	203	PEB	C1B-C2B	2.18	1.50	1.45
29	TM	203	PEB	C1B-C2B	2.18	1.50	1.45
29	F1	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	R2	203	PEB	C4A-NA	-2.18	1.32	1.37
29	FK	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	RR	203	PEB	C4A-NA	-2.18	1.32	1.37
29	L1	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	LK	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	UB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	UM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	WR	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	l7	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	l9	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	D1	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	EA	201	PEB	C4A-NA	-2.18	1.32	1.37
29	SB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	SM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	EN	201	PEB	C4A-NA	-2.18	1.32	1.37
29	U1	203	PEB	C4A-NA	-2.18	1.32	1.37
29	UK	203	PEB	C4A-NA	-2.18	1.32	1.37
29	LA	201	PEB	C4B-C3B	2.18	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LN	201	PEB	C4B-C3B	2.18	1.49	1.45
29	Q7	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	Q9	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	DA	203	PEB	C2A-C1A	-2.18	1.50	1.52
29	CC	201	PEB	C2A-C1A	-2.18	1.50	1.52
29	CE	201	PEB	C2A-C1A	-2.18	1.50	1.52
29	DN	203	PEB	C2A-C1A	-2.18	1.50	1.52
29	jB	202	PEB	C4A-NA	-2.18	1.32	1.37
29	jM	202	PEB	C4A-NA	-2.18	1.32	1.37
29	O7	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	O9	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	MB	202	PEB	C4A-NA	-2.18	1.32	1.37
29	MM	202	PEB	C4A-NA	-2.18	1.32	1.37
29	O1	202	PEB	C4A-NA	-2.18	1.32	1.37
29	OK	202	PEB	C4A-NA	-2.18	1.32	1.37
29	J5	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	J8	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	FA	203	PEB	C2A-C1A	-2.18	1.50	1.52
29	FN	203	PEB	C2A-C1A	-2.18	1.50	1.52
31	L1	1001	CYC	C4B-NB	-2.18	1.33	1.38
31	LK	1001	CYC	C4B-NB	-2.18	1.33	1.38
29	MB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	QB	203	PEB	C4A-NA	-2.18	1.32	1.37
29	MM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	QM	203	PEB	C4A-NA	-2.18	1.32	1.37
29	P1	201	PEB	OD-C4D	2.18	1.27	1.23
29	PK	201	PEB	OD-C4D	2.18	1.27	1.23
29	gB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	gM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	I8	202	PEB	C4A-NA	-2.18	1.32	1.37
29	I4	203	PEB	C4B-C3B	2.18	1.49	1.45
29	O2	202	PEB	C2A-C1A	-2.18	1.50	1.52
29	I5	202	PEB	C4A-NA	-2.18	1.32	1.37
29	NK	1002	PEB	C4A-NA	-2.18	1.32	1.37
29	WB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	iB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	sJ	202	PEB	C4A-NA	-2.18	1.32	1.37
29	sL	202	PEB	C4A-NA	-2.18	1.32	1.37
29	WM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	iM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	T1	201	PEB	OD-C4D	2.18	1.27	1.23
29	TK	201	PEB	OD-C4D	2.18	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LB	201	PEB	C4A-NA	-2.18	1.32	1.37
29	LM	201	PEB	C4A-NA	-2.18	1.32	1.37
29	KA	201	PEB	C4A-NA	-2.18	1.32	1.37
29	lB	202	PEB	C4A-NA	-2.18	1.32	1.37
29	lM	202	PEB	C4A-NA	-2.18	1.32	1.37
29	KN	201	PEB	C4A-NA	-2.18	1.32	1.37
30	MN	403	PUB	C4B-CHB	2.18	1.49	1.41
29	YB	203	PEB	C2A-C1A	-2.18	1.50	1.52
29	AM	301	PEB	C2A-C1A	-2.18	1.50	1.52
29	YM	203	PEB	C2A-C1A	-2.18	1.50	1.52
29	d7	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	d9	201	PEB	CHA-C4A	-2.18	1.32	1.36
29	NR	203	PEB	C4A-NA	-2.18	1.32	1.37
29	bF	201	PEB	OD-C4D	2.18	1.27	1.23
29	bI	201	PEB	OD-C4D	2.18	1.27	1.23
29	C5	203	PEB	C4A-NA	-2.18	1.32	1.37
29	C8	203	PEB	C4A-NA	-2.18	1.32	1.37
29	MA	405	PEB	C1B-C2B	2.18	1.50	1.45
29	eJ	202	PEB	C4A-NA	-2.18	1.32	1.37
29	eL	202	PEB	C4A-NA	-2.18	1.32	1.37
31	CF	1001	CYC	C4B-NB	-2.18	1.33	1.38
31	CI	1001	CYC	C4B-NB	-2.18	1.33	1.38
29	A7	305	PEB	C1B-C2B	2.18	1.50	1.45
29	A9	305	PEB	C1B-C2B	2.18	1.50	1.45
29	iI	201	PEB	OD-C4D	2.17	1.27	1.23
29	iK	201	PEB	OD-C4D	2.17	1.27	1.23
31	TP	1001	CYC	OB-C4B	2.17	1.27	1.23
29	QB	204	PEB	C2A-C1A	-2.17	1.50	1.52
29	QM	204	PEB	C2A-C1A	-2.17	1.50	1.52
29	IB	202	PEB	C4A-NA	-2.17	1.32	1.37
29	TB	201	PEB	C4A-NA	-2.17	1.32	1.37
29	jB	201	PEB	C4A-NA	-2.17	1.32	1.37
29	IM	202	PEB	C4A-NA	-2.17	1.32	1.37
29	TM	201	PEB	C4A-NA	-2.17	1.32	1.37
29	jM	201	PEB	C4A-NA	-2.17	1.32	1.37
29	L8	202	PEB	C4A-NA	-2.17	1.32	1.37
29	JB	201	PEB	C4A-NA	-2.17	1.32	1.37
29	uJ	203	PEB	C4A-NA	-2.17	1.32	1.37
29	uL	203	PEB	C4A-NA	-2.17	1.32	1.37
29	JM	201	PEB	C4A-NA	-2.17	1.32	1.37
29	W1	202	PEB	C4A-NA	-2.17	1.32	1.37
29	H5	202	PEB	C4A-NA	-2.17	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	NB	202	PEB	C4A-NA	-2.17	1.32	1.37
29	WK	202	PEB	C4A-NA	-2.17	1.32	1.37
29	NM	202	PEB	C4A-NA	-2.17	1.32	1.37
29	H1	1002	PEB	C4A-NA	-2.17	1.32	1.37
29	FB	201	PEB	C4A-NA	-2.17	1.32	1.37
29	WJ	203	PEB	C4A-NA	-2.17	1.32	1.37
29	WL	203	PEB	C4A-NA	-2.17	1.32	1.37
29	FM	201	PEB	C4A-NA	-2.17	1.32	1.37
29	cJ	202	PEB	C4A-NA	-2.17	1.32	1.37
29	cL	202	PEB	C4A-NA	-2.17	1.32	1.37
29	C4	202	PEB	C2A-C1A	-2.17	1.50	1.52
29	Z1	203	PEB	C4A-NA	-2.17	1.32	1.37
29	ZK	203	PEB	C4A-NA	-2.17	1.32	1.37
29	KC	203	PEB	C1D-ND	2.17	1.49	1.45
29	KE	203	PEB	C1D-ND	2.17	1.49	1.45
29	B3	201	PEB	C4B-C3B	2.17	1.49	1.45
29	BO	201	PEB	C4B-C3B	2.17	1.49	1.45
29	A8	202	PEB	C4A-NA	-2.17	1.32	1.37
29	RB	201	PEB	C4A-NA	-2.17	1.32	1.37
29	RM	201	PEB	C4A-NA	-2.17	1.32	1.37
29	SR	201	PEB	C2A-C1A	-2.17	1.50	1.52
31	HK	1001	CYC	C4B-NB	-2.17	1.33	1.38
31	BP	1001	CYC	C4B-NB	-2.17	1.33	1.38
29	h7	201	PEB	CHA-C4A	-2.17	1.32	1.36
29	h9	201	PEB	CHA-C4A	-2.17	1.32	1.36
29	T2	203	PEB	C4A-NA	-2.17	1.32	1.37
29	CA	201	PEB	C4A-NA	-2.17	1.32	1.37
29	CN	201	PEB	C4A-NA	-2.17	1.32	1.37
29	TR	203	PEB	C4A-NA	-2.17	1.32	1.37
29	iB	203	PEB	C1B-C2B	2.17	1.50	1.45
29	iM	203	PEB	C1B-C2B	2.17	1.50	1.45
29	M4	203	PEB	C4B-C3B	2.17	1.49	1.45
29	j1	202	PEB	C4A-NA	-2.17	1.32	1.37
29	kB	203	PEB	C4A-NA	-2.17	1.32	1.37
29	jK	202	PEB	C4A-NA	-2.17	1.32	1.37
29	kM	203	PEB	C4A-NA	-2.17	1.32	1.37
29	M2	202	PEB	C1C-CHB	2.17	1.49	1.41
29	QJ	202	PEB	C2A-C1A	-2.17	1.50	1.52
29	QL	202	PEB	C2A-C1A	-2.17	1.50	1.52
29	HB	203	PEB	C4A-NA	-2.17	1.32	1.37
29	HM	203	PEB	C4A-NA	-2.17	1.32	1.37
31	yP	1001	CYC	C1A-C2A	2.17	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AM	301	PEB	C4B-C3B	2.17	1.49	1.45
29	XB	202	PEB	C4A-NA	-2.17	1.32	1.37
29	kJ	202	PEB	C4A-NA	-2.17	1.32	1.37
29	kL	202	PEB	C4A-NA	-2.17	1.32	1.37
29	XM	202	PEB	C4A-NA	-2.17	1.32	1.37
29	SR	202	PEB	C1C-CHB	2.17	1.49	1.41
29	k1	201	PEB	OD-C4D	2.17	1.27	1.23
29	kK	201	PEB	OD-C4D	2.17	1.27	1.23
29	MJ	202	PEB	C4A-NA	-2.17	1.32	1.37
29	ML	202	PEB	C4A-NA	-2.17	1.32	1.37
29	AC	202	PEB	C4B-C3B	2.17	1.49	1.45
29	AE	202	PEB	C4B-C3B	2.17	1.49	1.45
29	LA	203	PEB	C2A-C1A	-2.17	1.50	1.52
29	LN	203	PEB	C2A-C1A	-2.17	1.50	1.52
31	gP	1001	CYC	OB-C4B	2.16	1.27	1.23
29	A1	301	PEB	C2A-C1A	-2.16	1.50	1.52
29	GB	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	AK	301	PEB	C2A-C1A	-2.16	1.50	1.52
29	GM	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	aJ	202	PEB	C4A-NA	-2.16	1.32	1.37
29	aL	202	PEB	C4A-NA	-2.16	1.32	1.37
29	WR	202	PEB	C1C-CHB	2.16	1.49	1.41
31	L9	1001	CYC	C1A-NA	-2.16	1.33	1.38
29	A1	303	PEB	C4A-NA	-2.16	1.32	1.37
29	aB	202	PEB	C4A-NA	-2.16	1.32	1.37
29	AK	303	PEB	C4A-NA	-2.16	1.32	1.37
29	aM	202	PEB	C4A-NA	-2.16	1.32	1.37
29	PR	202	PEB	C4A-NA	-2.16	1.32	1.37
29	IJ	202	PEB	C4A-NA	-2.16	1.32	1.37
29	IL	202	PEB	C4A-NA	-2.16	1.32	1.37
29	V1	201	PEB	OD-C4D	2.16	1.27	1.23
29	VK	201	PEB	OD-C4D	2.16	1.27	1.23
30	MA	403	PUB	C1C-C2C	2.16	1.49	1.45
29	AA	201	PEB	C4A-NA	-2.16	1.32	1.37
29	AN	201	PEB	C4A-NA	-2.16	1.32	1.37
31	IF	1001	CYC	C4B-NB	-2.16	1.33	1.38
31	II	1001	CYC	C4B-NB	-2.16	1.33	1.38
29	m1	201	PEB	OD-C4D	2.16	1.27	1.23
29	mK	201	PEB	OD-C4D	2.16	1.27	1.23
29	ZB	203	PEB	C1B-C2B	2.16	1.50	1.45
29	ZM	203	PEB	C1B-C2B	2.16	1.50	1.45
29	AG	201	PEB	C4A-NA	-2.16	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AQ	201	PEB	C4A-NA	-2.16	1.32	1.37
29	f1	202	PEB	C4A-NA	-2.16	1.32	1.37
29	G5	202	PEB	C4A-NA	-2.16	1.32	1.37
29	OB	202	PEB	C4A-NA	-2.16	1.32	1.37
29	fK	202	PEB	C4A-NA	-2.16	1.32	1.37
29	OM	202	PEB	C4A-NA	-2.16	1.32	1.37
29	S7	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	S9	201	PEB	CHA-C4A	-2.16	1.32	1.36
31	sP	1001	CYC	C4B-NB	-2.16	1.33	1.38
29	L3	201	PEB	C4B-C3B	2.16	1.49	1.45
29	LO	201	PEB	C4B-C3B	2.16	1.49	1.45
31	FP	1001	CYC	C4B-NB	-2.16	1.33	1.38
31	L9	1001	CYC	C4A-C3A	2.16	1.50	1.45
29	SB	202	PEB	C4A-NA	-2.16	1.32	1.37
29	eB	202	PEB	C4A-NA	-2.16	1.32	1.37
29	mJ	202	PEB	C4A-NA	-2.16	1.32	1.37
29	mL	202	PEB	C4A-NA	-2.16	1.32	1.37
29	SM	202	PEB	C4A-NA	-2.16	1.32	1.37
29	eM	202	PEB	C4A-NA	-2.16	1.32	1.37
29	B5	202	PEB	C4A-NA	-2.16	1.32	1.37
29	iJ	202	PEB	C4A-NA	-2.16	1.32	1.37
29	iL	202	PEB	C4A-NA	-2.16	1.32	1.37
29	oJ	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	oL	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	Q7	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	Q9	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	kB	203	PEB	C1B-C2B	2.16	1.50	1.45
29	kM	203	PEB	C1B-C2B	2.16	1.50	1.45
29	RB	203	PEB	C4A-NA	-2.16	1.32	1.37
29	RM	203	PEB	C4A-NA	-2.16	1.32	1.37
29	W7	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	W9	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	N1	1002	PEB	C4A-NA	-2.16	1.32	1.37
29	S1	202	PEB	C4A-NA	-2.16	1.32	1.37
29	SK	202	PEB	C4A-NA	-2.16	1.32	1.37
31	H1	1001	CYC	C4B-NB	-2.16	1.33	1.38
29	QB	204	PEB	C4A-NA	-2.16	1.32	1.37
29	UJ	202	PEB	C4A-NA	-2.16	1.32	1.37
29	UL	202	PEB	C4A-NA	-2.16	1.32	1.37
29	QM	204	PEB	C4A-NA	-2.16	1.32	1.37
31	H7	1001	CYC	C1B-C2B	2.16	1.49	1.45
31	H9	1001	CYC	C1B-C2B	2.16	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	L9	1001	CYC	C1B-C2B	2.16	1.49	1.45
29	b7	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	b9	201	PEB	CHA-C4A	-2.16	1.32	1.36
29	b1	202	PEB	C4A-NA	-2.16	1.32	1.37
29	mB	203	PEB	C4A-NA	-2.16	1.32	1.37
29	bK	202	PEB	C4A-NA	-2.16	1.32	1.37
29	mM	203	PEB	C4A-NA	-2.16	1.32	1.37
31	KP	1001	CYC	OB-C4B	2.16	1.27	1.23
29	d1	202	PEB	C4A-NA	-2.16	1.32	1.37
29	J3	202	PEB	C4A-NA	-2.16	1.32	1.37
29	B8	202	PEB	C4A-NA	-2.16	1.32	1.37
29	dK	202	PEB	C4A-NA	-2.16	1.32	1.37
29	xL	302	PEB	C4A-NA	-2.16	1.32	1.37
29	JO	202	PEB	C4A-NA	-2.16	1.32	1.37
29	f1	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	ID	202	PEB	C2A-C1A	-2.16	1.50	1.52
29	fK	202	PEB	C2A-C1A	-2.16	1.50	1.52
31	oP	1001	CYC	C4B-NB	-2.16	1.33	1.38
29	H8	202	PEB	C4A-NA	-2.16	1.32	1.37
29	GC	202	PEB	C1D-ND	2.16	1.49	1.45
29	GE	202	PEB	C1D-ND	2.16	1.49	1.45
29	MN	405	PEB	C1B-C2B	2.16	1.50	1.45
31	F7	1001	CYC	C4A-C3A	2.15	1.50	1.45
29	I4	202	PEB	C2A-C1A	-2.15	1.50	1.52
29	DB	203	PEB	C4A-NA	-2.15	1.32	1.37
29	PB	201	PEB	C4A-NA	-2.15	1.32	1.37
29	cB	203	PEB	C4A-NA	-2.15	1.32	1.37
29	xJ	302	PEB	C4A-NA	-2.15	1.32	1.37
29	DM	203	PEB	C4A-NA	-2.15	1.32	1.37
29	PM	201	PEB	C4A-NA	-2.15	1.32	1.37
29	cM	203	PEB	C4A-NA	-2.15	1.32	1.37
31	D1	1003	CYC	C4B-NB	-2.15	1.33	1.38
31	F9	1001	CYC	C4A-C3A	2.15	1.50	1.45
29	M2	202	PEB	C2A-C1A	-2.15	1.50	1.52
29	G4	202	PEB	C2A-C1A	-2.15	1.50	1.52
29	K5	203	PEB	C4A-NA	-2.15	1.32	1.37
29	F8	202	PEB	C4A-NA	-2.15	1.32	1.37
29	K8	203	PEB	C4A-NA	-2.15	1.32	1.37
29	hB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	hM	202	PEB	C4A-NA	-2.15	1.32	1.37
29	QR	202	PEB	C1C-CHB	2.15	1.49	1.41
29	O2	202	PEB	C1C-CHB	2.15	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CC	202	PEB	C1D-ND	2.15	1.49	1.45
29	CE	202	PEB	C1D-ND	2.15	1.49	1.45
29	IA	201	PEB	C4A-NA	-2.15	1.32	1.37
29	eB	201	PEB	C4A-NA	-2.15	1.32	1.37
29	eM	201	PEB	C4A-NA	-2.15	1.32	1.37
29	IN	201	PEB	C4A-NA	-2.15	1.32	1.37
29	NB	202	PEB	C1B-C2B	2.15	1.50	1.45
29	NM	202	PEB	C1B-C2B	2.15	1.50	1.45
31	MP	1001	CYC	C4B-NB	-2.15	1.33	1.38
31	tP	1001	CYC	OB-C4B	2.15	1.27	1.23
29	Z7	201	PEB	CHA-C4A	-2.15	1.32	1.36
29	Z9	201	PEB	CHA-C4A	-2.15	1.32	1.36
29	CB	201	PEB	C4A-NA	-2.15	1.32	1.37
29	CB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	CM	201	PEB	C4A-NA	-2.15	1.32	1.37
29	CM	202	PEB	C4A-NA	-2.15	1.32	1.37
29	fB	202	PEB	C2A-C1A	-2.15	1.50	1.52
29	fM	202	PEB	C2A-C1A	-2.15	1.50	1.52
29	LB	203	PEB	C1B-C2B	2.15	1.50	1.45
29	LM	203	PEB	C1B-C2B	2.15	1.50	1.45
29	DB	201	PEB	C4A-NA	-2.15	1.32	1.37
29	DM	201	PEB	C4A-NA	-2.15	1.32	1.37
29	FB	203	PEB	C4A-NA	-2.15	1.32	1.37
29	FM	203	PEB	C4A-NA	-2.15	1.32	1.37
29	EC	202	PEB	C1D-ND	2.15	1.49	1.45
29	EE	202	PEB	C1D-ND	2.15	1.49	1.45
29	mB	203	PEB	C1B-C2B	2.15	1.50	1.45
29	mM	203	PEB	C1B-C2B	2.15	1.50	1.45
29	HB	201	PEB	C4A-NA	-2.15	1.32	1.37
29	VB	203	PEB	C4A-NA	-2.15	1.32	1.37
29	OJ	202	PEB	C4A-NA	-2.15	1.32	1.37
29	QJ	202	PEB	C4A-NA	-2.15	1.32	1.37
29	OL	202	PEB	C4A-NA	-2.15	1.32	1.37
29	QL	202	PEB	C4A-NA	-2.15	1.32	1.37
29	wL	302	PEB	C4A-NA	-2.15	1.32	1.37
29	HM	201	PEB	C4A-NA	-2.15	1.32	1.37
29	VM	203	PEB	C4A-NA	-2.15	1.32	1.37
29	lI	202	PEB	C4A-NA	-2.15	1.32	1.37
29	lK	202	PEB	C4A-NA	-2.15	1.32	1.37
29	eB	202	PEB	C1B-C2B	2.15	1.50	1.45
29	eM	202	PEB	C1B-C2B	2.15	1.50	1.45
31	UP	1001	CYC	C4B-NB	-2.15	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	H3	202	PEB	C4A-NA	-2.15	1.32	1.37
29	I3	203	PEB	C4A-NA	-2.15	1.32	1.37
29	GB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	fB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	GM	202	PEB	C4A-NA	-2.15	1.32	1.37
29	fM	202	PEB	C4A-NA	-2.15	1.32	1.37
29	HO	202	PEB	C4A-NA	-2.15	1.32	1.37
29	IO	203	PEB	C4A-NA	-2.15	1.32	1.37
29	EB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	JB	203	PEB	C4A-NA	-2.15	1.32	1.37
29	dB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	EM	202	PEB	C4A-NA	-2.15	1.32	1.37
29	JM	203	PEB	C4A-NA	-2.15	1.32	1.37
29	dM	202	PEB	C4A-NA	-2.15	1.32	1.37
31	DP	1001	CYC	C4B-NB	-2.15	1.33	1.38
29	gB	203	PEB	C1B-C2B	2.15	1.50	1.45
29	gM	203	PEB	C1B-C2B	2.15	1.50	1.45
29	WJ	203	PEB	C2A-C1A	-2.15	1.50	1.52
29	WL	203	PEB	C2A-C1A	-2.15	1.50	1.52
31	xP	1001	CYC	CBA-CGA	2.15	1.55	1.50
31	K1	1001	CYC	C4B-NB	-2.15	1.33	1.38
31	KK	1001	CYC	C4B-NB	-2.15	1.33	1.38
31	D7	1001	CYC	C1A-NA	-2.15	1.34	1.38
31	D9	1001	CYC	C1A-NA	-2.15	1.34	1.38
31	pP	1001	CYC	OB-C4B	2.15	1.27	1.23
29	N2	203	PEB	C4A-NA	-2.15	1.32	1.37
29	UB	202	PEB	C4A-NA	-2.15	1.32	1.37
29	MQ	401	PEB	C4A-NA	-2.15	1.32	1.37
29	cB	203	PEB	C1B-C2B	2.14	1.50	1.45
29	cM	203	PEB	C1B-C2B	2.14	1.50	1.45
31	lP	1001	CYC	OB-C4B	2.14	1.27	1.23
31	eP	1001	CYC	OB-C4B	2.14	1.27	1.23
31	F7	1001	CYC	C1B-C2B	2.14	1.49	1.45
29	SJ	202	PEB	C2A-C1A	-2.14	1.50	1.52
29	SL	202	PEB	C2A-C1A	-2.14	1.50	1.52
29	GA	201	PEB	C4A-NA	-2.14	1.32	1.37
29	GN	201	PEB	C4A-NA	-2.14	1.32	1.37
29	Q1	202	PEB	C4A-NA	-2.14	1.32	1.37
29	QK	202	PEB	C4A-NA	-2.14	1.32	1.37
31	AP	1001	CYC	OB-C4B	2.14	1.27	1.23
29	xJ	302	PEB	C4B-C3B	2.14	1.49	1.45
29	TB	203	PEB	C4A-NA	-2.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	TM	203	PEB	C4A-NA	-2.14	1.32	1.37
29	IC	202	PEB	C1D-ND	2.14	1.49	1.45
29	IE	202	PEB	C1D-ND	2.14	1.49	1.45
29	f7	201	PEB	CHA-C4A	-2.14	1.32	1.36
29	f9	201	PEB	CHA-C4A	-2.14	1.32	1.36
29	W2	202	PEB	C1C-CHB	2.14	1.49	1.41
29	IG	201	PEB	C4A-NA	-2.14	1.32	1.37
29	GJ	202	PEB	C4A-NA	-2.14	1.32	1.37
29	GL	202	PEB	C4A-NA	-2.14	1.32	1.37
29	IQ	201	PEB	C4A-NA	-2.14	1.32	1.37
31	iP	1001	CYC	OB-C4B	2.14	1.27	1.23
29	I5	203	PEB	C4A-NA	-2.14	1.32	1.37
29	B8	203	PEB	C4A-NA	-2.14	1.32	1.37
29	I8	203	PEB	C4A-NA	-2.14	1.32	1.37
30	A1	304	PUB	C4B-CHB	2.14	1.49	1.41
30	AK	304	PUB	C4B-CHB	2.14	1.49	1.41
31	fP	1001	CYC	C4B-NB	-2.14	1.33	1.38
29	SB	202	PEB	C2A-C1A	-2.14	1.50	1.52
29	SM	202	PEB	C2A-C1A	-2.14	1.50	1.52
31	J7	1001	CYC	C1B-C2B	2.14	1.49	1.45
29	D3	201	PEB	C4B-C3B	2.14	1.49	1.45
29	DO	201	PEB	C4B-C3B	2.14	1.49	1.45
29	ZB	203	PEB	C4A-NA	-2.14	1.32	1.37
29	ZM	203	PEB	C4A-NA	-2.14	1.32	1.37
29	WB	202	PEB	C4A-NA	-2.14	1.32	1.37
29	WM	202	PEB	C4A-NA	-2.14	1.32	1.37
31	vP	1001	CYC	OB-C4B	2.14	1.27	1.23
31	1P	1001	CYC	C4B-NB	-2.14	1.33	1.38
31	J9	1001	CYC	C1B-C2B	2.14	1.49	1.45
29	S2	202	PEB	C1C-CHB	2.14	1.49	1.41
29	LB	203	PEB	C4A-NA	-2.14	1.32	1.37
29	LM	203	PEB	C4A-NA	-2.14	1.32	1.37
29	VB	201	PEB	C4A-NA	-2.14	1.32	1.37
29	EJ	202	PEB	C4A-NA	-2.14	1.32	1.37
29	EL	202	PEB	C4A-NA	-2.14	1.32	1.37
29	VM	201	PEB	C4A-NA	-2.14	1.32	1.37
31	M1	1001	CYC	C4B-NB	-2.14	1.33	1.38
31	MK	1001	CYC	C4B-NB	-2.14	1.33	1.38
31	PP	1001	CYC	OB-C4B	2.14	1.27	1.23
29	U2	202	PEB	C1C-CHB	2.14	1.49	1.41
31	GP	1001	CYC	OB-C4B	2.14	1.27	1.23
29	CJ	202	PEB	C4A-NA	-2.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	CL	202	PEB	C4A-NA	-2.14	1.32	1.37
29	G4	202	PEB	CHA-C4A	-2.14	1.32	1.36
29	UR	202	PEB	C1C-CHB	2.14	1.49	1.41
31	uP	1001	CYC	C4B-NB	-2.14	1.33	1.38
29	I3	202	PEB	C4B-C3B	2.14	1.49	1.45
29	IO	202	PEB	C4B-C3B	2.14	1.49	1.45
29	JB	203	PEB	C1B-C2B	2.14	1.50	1.45
29	JM	203	PEB	C1B-C2B	2.14	1.50	1.45
29	AC	203	PEB	C1C-CHB	2.14	1.49	1.41
29	AE	203	PEB	C1C-CHB	2.14	1.49	1.41
29	h1	202	PEB	C4A-NA	-2.14	1.32	1.37
29	YB	203	PEB	C4A-NA	-2.14	1.32	1.37
29	hK	202	PEB	C4A-NA	-2.14	1.32	1.37
29	YM	203	PEB	C4A-NA	-2.14	1.32	1.37
31	D7	1001	CYC	C4B-NB	-2.14	1.33	1.38
31	D9	1001	CYC	C4B-NB	-2.14	1.33	1.38
29	RB	203	PEB	C1B-C2B	2.14	1.50	1.45
29	RM	203	PEB	C1B-C2B	2.14	1.50	1.45
29	NB	201	PEB	C4A-NA	-2.14	1.32	1.37
29	NM	201	PEB	C4A-NA	-2.14	1.32	1.37
29	FC	202	PEB	C1C-CHB	2.14	1.49	1.41
29	FE	202	PEB	C1C-CHB	2.14	1.49	1.41
29	Q2	202	PEB	C1C-CHB	2.13	1.49	1.41
29	I4	203	PEB	C2A-C1A	-2.13	1.50	1.52
29	XB	202	PEB	C1B-C2B	2.13	1.50	1.45
29	XM	202	PEB	C1B-C2B	2.13	1.50	1.45
29	mJ	202	PEB	C2A-C1A	-2.13	1.50	1.52
29	mL	202	PEB	C2A-C1A	-2.13	1.50	1.52
31	GK	1001	CYC	C4B-NB	-2.13	1.33	1.38
29	Y1	201	PEB	OD-C4D	2.13	1.27	1.23
29	YK	201	PEB	OD-C4D	2.13	1.27	1.23
29	ID	202	PEB	CHA-C4A	-2.13	1.32	1.36
29	F5	202	PEB	C4A-NA	-2.13	1.32	1.37
31	D7	1001	CYC	C1B-C2B	2.13	1.48	1.45
31	D9	1001	CYC	C1B-C2B	2.13	1.48	1.45
31	JF	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	JI	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	WP	1001	CYC	C1A-C2A	2.13	1.49	1.45
29	AC	202	PEB	C1D-ND	2.13	1.49	1.45
29	AE	202	PEB	C1D-ND	2.13	1.49	1.45
31	LF	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	LI	1001	CYC	C1D-CHD	2.13	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	RP	1001	CYC	OB-C4B	2.13	1.27	1.23
31	cP	1001	CYC	OB-C4B	2.13	1.27	1.23
30	AM	304	PUB	C1C-NC	-2.13	1.34	1.38
31	HP	1001	CYC	C4B-NB	-2.13	1.33	1.38
29	E4	202	PEB	CHA-C4A	-2.13	1.32	1.36
31	EP	1001	CYC	OB-C4B	2.13	1.27	1.23
29	ED	201	PEB	CHA-C4A	-2.13	1.32	1.36
31	SP	1001	CYC	C4B-NB	-2.13	1.33	1.38
31	F9	1001	CYC	C4B-NB	-2.13	1.33	1.38
31	hP	1001	CYC	C4B-NB	-2.13	1.33	1.38
29	KB	202	PEB	C4A-NA	-2.13	1.32	1.37
29	KM	202	PEB	C4A-NA	-2.13	1.32	1.37
29	LC	202	PEB	C1C-CHB	2.13	1.49	1.41
29	LE	202	PEB	C1C-CHB	2.13	1.49	1.41
29	GG	201	PEB	C4A-NA	-2.13	1.32	1.37
29	GQ	201	PEB	C4A-NA	-2.13	1.32	1.37
29	TF	201	PEB	C4B-C3B	2.13	1.49	1.45
29	g7	203	PEB	C1C-CHB	2.13	1.49	1.41
29	g9	203	PEB	C1C-CHB	2.13	1.49	1.41
29	B3	202	PEB	C4A-NA	-2.13	1.32	1.37
29	BO	202	PEB	C4A-NA	-2.13	1.32	1.37
31	QP	1001	CYC	C4B-NB	-2.13	1.33	1.38
31	L7	1001	CYC	C1B-C2B	2.13	1.48	1.45
31	HF	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	HI	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	J7	1001	CYC	C1A-NA	-2.13	1.34	1.38
29	PB	202	PEB	C4A-NA	-2.13	1.32	1.37
29	iB	203	PEB	C4A-NA	-2.13	1.32	1.37
29	PM	202	PEB	C4A-NA	-2.13	1.32	1.37
29	iM	203	PEB	C4A-NA	-2.13	1.32	1.37
29	PB	202	PEB	C1B-C2B	2.13	1.50	1.45
29	PM	202	PEB	C1B-C2B	2.13	1.50	1.45
31	FF	1001	CYC	C1D-CHD	2.13	1.49	1.41
31	FI	1001	CYC	C1D-CHD	2.13	1.49	1.41
29	GD	202	PEB	CHA-C4A	-2.13	1.32	1.36
29	k7	203	PEB	C1C-CHB	2.13	1.49	1.41
29	m7	203	PEB	C1C-CHB	2.13	1.49	1.41
29	k9	203	PEB	C1C-CHB	2.13	1.49	1.41
29	m9	203	PEB	C1C-CHB	2.13	1.49	1.41
29	gJ	202	PEB	C4A-NA	-2.12	1.32	1.37
29	gL	202	PEB	C4A-NA	-2.12	1.32	1.37
31	IP	1001	CYC	C4B-NB	-2.12	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	dB	202	PEB	C2A-C1A	-2.12	1.50	1.52
29	dM	202	PEB	C2A-C1A	-2.12	1.50	1.52
31	rP	1001	CYC	OB-C4B	2.12	1.27	1.23
31	nP	1001	CYC	C4B-NB	-2.12	1.33	1.38
29	HC	202	PEB	C1C-CHB	2.12	1.49	1.41
29	HE	202	PEB	C1C-CHB	2.12	1.49	1.41
31	GP	1001	CYC	C4A-C3A	2.12	1.50	1.45
29	wJ	302	PEB	C4A-NA	-2.12	1.32	1.37
29	T7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	T9	203	PEB	C1C-CHB	2.12	1.49	1.41
31	NP	1001	CYC	OB-C4B	2.12	1.27	1.23
29	a7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	a9	203	PEB	C1C-CHB	2.12	1.49	1.41
29	H5	203	PEB	C4A-NA	-2.12	1.32	1.37
29	zL	501	PEB	C4A-NA	-2.12	1.32	1.37
31	XP	1001	CYC	C4B-NB	-2.12	1.33	1.38
29	A1	302	PEB	C4A-NA	-2.12	1.32	1.37
29	AK	302	PEB	C4A-NA	-2.12	1.32	1.37
29	xJ	301	PEB	C4B-C3B	2.12	1.49	1.45
29	DB	203	PEB	C1B-C2B	2.12	1.50	1.45
29	DM	203	PEB	C1B-C2B	2.12	1.50	1.45
29	g1	201	PEB	OD-C4D	2.12	1.27	1.23
29	gK	201	PEB	OD-C4D	2.12	1.27	1.23
31	rP	1001	CYC	C4A-C3A	2.12	1.50	1.45
29	wJ	303	PEB	C1C-CHB	2.12	1.49	1.41
31	qP	1001	CYC	C4B-NB	-2.12	1.33	1.38
29	V7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	V9	203	PEB	C1C-CHB	2.12	1.49	1.41
29	i7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	i9	203	PEB	C1C-CHB	2.12	1.49	1.41
29	FB	203	PEB	C1B-C2B	2.12	1.50	1.45
29	FM	203	PEB	C1B-C2B	2.12	1.50	1.45
29	MB	202	PEB	C2A-C1A	-2.12	1.50	1.52
29	MM	202	PEB	C2A-C1A	-2.12	1.50	1.52
29	R7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	R9	203	PEB	C1C-CHB	2.12	1.49	1.41
29	VB	203	PEB	C1B-C2B	2.12	1.50	1.45
29	VM	203	PEB	C1B-C2B	2.12	1.50	1.45
29	k7	203	PEB	C4A-NA	-2.12	1.32	1.37
29	k9	203	PEB	C4A-NA	-2.12	1.32	1.37
29	KJ	202	PEB	C4A-NA	-2.12	1.32	1.37
29	KL	202	PEB	C4A-NA	-2.12	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	wP	1001	CYC	C4B-NB	-2.12	1.33	1.38
30	AB	304	PUB	C1C-NC	-2.12	1.34	1.38
31	L7	1001	CYC	C1A-NA	-2.12	1.34	1.38
29	qJ	202	PEB	C4A-NA	-2.12	1.32	1.37
29	qL	202	PEB	C4A-NA	-2.12	1.32	1.37
31	J9	1001	CYC	C4B-NB	-2.12	1.33	1.38
31	EP	1001	CYC	C4A-C3A	2.12	1.50	1.45
29	e7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	e9	203	PEB	C1C-CHB	2.12	1.49	1.41
29	P7	203	PEB	C1C-CHB	2.12	1.49	1.41
29	P9	203	PEB	C1C-CHB	2.12	1.49	1.41
30	MG	402	PUB	CMB-C2B	2.12	1.56	1.51
31	J9	1001	CYC	C1A-NA	-2.12	1.34	1.38
29	HB	203	PEB	C1B-C2B	2.12	1.50	1.45
29	HM	203	PEB	C1B-C2B	2.12	1.50	1.45
31	iP	1001	CYC	C4A-C3A	2.12	1.50	1.45
31	NF	1001	CYC	C1D-CHD	2.12	1.49	1.41
31	NI	1001	CYC	C1D-CHD	2.12	1.49	1.41
29	BC	202	PEB	C4A-NA	-2.12	1.32	1.37
29	BE	202	PEB	C4A-NA	-2.12	1.32	1.37
31	kP	1001	CYC	C4B-NB	-2.12	1.33	1.38
29	UJ	202	PEB	C2A-C1A	-2.12	1.50	1.52
29	UL	202	PEB	C2A-C1A	-2.12	1.50	1.52
31	E1	1001	CYC	C4B-NB	-2.12	1.33	1.38
31	DF	1001	CYC	C1D-CHD	2.12	1.49	1.41
31	DI	1001	CYC	C1D-CHD	2.12	1.49	1.41
31	C1	1001	CYC	C4B-NB	-2.11	1.33	1.38
29	i7	203	PEB	C2A-C1A	-2.11	1.50	1.52
29	i9	203	PEB	C2A-C1A	-2.11	1.50	1.52
29	IJ	202	PEB	C2A-C1A	-2.11	1.50	1.52
29	IL	202	PEB	C2A-C1A	-2.11	1.50	1.52
31	jP	1001	CYC	C4B-NB	-2.11	1.33	1.38
29	c7	203	PEB	C1C-CHB	2.11	1.49	1.41
29	c9	203	PEB	C1C-CHB	2.11	1.49	1.41
29	KC	201	PEB	C1C-CHB	2.11	1.49	1.41
29	KE	201	PEB	C1C-CHB	2.11	1.49	1.41
29	g7	203	PEB	O1B-CGB	2.11	1.29	1.22
29	g9	203	PEB	O1B-CGB	2.11	1.29	1.22
29	F3	201	PEB	C4B-C3B	2.11	1.49	1.45
29	FO	201	PEB	C4B-C3B	2.11	1.49	1.45
31	F9	1001	CYC	C1B-C2B	2.11	1.48	1.45
31	H7	1001	CYC	C4B-NB	-2.11	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	H9	1001	CYC	C4B-NB	-2.11	1.33	1.38
31	CP	1001	CYC	OB-C4B	2.11	1.27	1.23
29	H8	203	PEB	C4A-NA	-2.11	1.32	1.37
29	k7	203	PEB	O1B-CGB	2.11	1.29	1.22
29	k9	203	PEB	O1B-CGB	2.11	1.29	1.22
29	MA	404	PEB	C4B-NB	-2.11	1.34	1.38
31	OP	1001	CYC	C4B-NB	-2.11	1.33	1.38
29	sJ	202	PEB	C2A-C1A	-2.11	1.50	1.52
29	sL	202	PEB	C2A-C1A	-2.11	1.50	1.52
29	Y7	203	PEB	C1C-CHB	2.11	1.49	1.41
29	Y9	203	PEB	C1C-CHB	2.11	1.49	1.41
31	gP	1001	CYC	C4A-C3A	2.11	1.50	1.45
31	pP	1001	CYC	C4A-C3A	2.11	1.50	1.45
29	AC	203	PEB	C4A-NA	-2.11	1.32	1.37
29	AE	203	PEB	C4A-NA	-2.11	1.32	1.37
29	BC	202	PEB	C1C-CHB	2.11	1.49	1.41
29	BE	202	PEB	C1C-CHB	2.11	1.49	1.41
29	KG	201	PEB	C4A-NA	-2.11	1.32	1.37
29	KQ	201	PEB	C4A-NA	-2.11	1.32	1.37
31	CP	1001	CYC	C4A-C3A	2.11	1.50	1.45
29	R7	203	PEB	O1B-CGB	2.11	1.29	1.22
29	R9	203	PEB	O1B-CGB	2.11	1.29	1.22
29	F5	203	PEB	C4A-NA	-2.11	1.32	1.37
29	F8	203	PEB	C4A-NA	-2.11	1.32	1.37
29	CG	201	PEB	C4A-NA	-2.11	1.32	1.37
29	CQ	201	PEB	C4A-NA	-2.11	1.32	1.37
29	J3	201	PEB	C4B-C3B	2.11	1.49	1.45
29	JO	201	PEB	C4B-C3B	2.11	1.49	1.45
29	xL	303	PEB	C1C-CHB	2.11	1.49	1.41
31	F7	1001	CYC	C4B-NB	-2.11	1.33	1.38
29	AM	301	PEB	C4A-NA	-2.11	1.32	1.37
29	I4	202	PEB	CHA-C4A	-2.11	1.32	1.36
31	JP	1001	CYC	OB-C4B	2.11	1.27	1.23
31	KP	1001	CYC	C4A-C3A	2.11	1.50	1.45
31	tP	1001	CYC	C4A-C3A	2.11	1.50	1.45
29	iJ	202	PEB	C2A-C1A	-2.11	1.50	1.52
29	iL	202	PEB	C2A-C1A	-2.11	1.50	1.52
31	cP	1001	CYC	C4A-C3A	2.11	1.50	1.45
29	BA	203	PEB	C2A-C1A	-2.10	1.50	1.52
29	BN	203	PEB	C2A-C1A	-2.10	1.50	1.52
31	L7	1001	CYC	C4B-NB	-2.10	1.33	1.38
31	F9	1001	CYC	C1A-NA	-2.10	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	Y7	203	PEB	O1B-CGB	2.10	1.29	1.22
29	Y9	203	PEB	O1B-CGB	2.10	1.29	1.22
29	E3	202	PEB	C4A-NA	-2.10	1.32	1.37
29	L5	203	PEB	C4A-NA	-2.10	1.32	1.37
29	EO	202	PEB	C4A-NA	-2.10	1.32	1.37
29	MN	404	PEB	C1B-C2B	2.10	1.50	1.45
31	RP	1001	CYC	C4A-C3A	2.10	1.50	1.45
29	F3	202	PEB	C4A-NA	-2.10	1.32	1.37
29	FO	202	PEB	C4A-NA	-2.10	1.32	1.37
29	M4	202	PEB	CHA-C4A	-2.10	1.32	1.36
31	IK	1001	CYC	C4B-NB	-2.10	1.33	1.38
29	wL	303	PEB	C1C-CHB	2.10	1.49	1.41
31	NP	1001	CYC	C4A-C3A	2.10	1.50	1.45
31	AP	1001	CYC	C4A-C3A	2.10	1.50	1.45
31	mP	1001	CYC	C4A-C3A	2.10	1.50	1.45
29	L4	201	PEB	C3A-C4A	-2.10	1.47	1.50
30	yJ	302	PUB	OD-C4D	2.10	1.27	1.23
30	yL	302	PUB	OD-C4D	2.10	1.27	1.23
29	T7	203	PEB	C4A-NA	-2.10	1.32	1.37
29	T9	203	PEB	C4A-NA	-2.10	1.32	1.37
31	N7	1001	CYC	C1A-NA	-2.10	1.34	1.38
31	N9	1001	CYC	C1A-NA	-2.10	1.34	1.38
29	c7	203	PEB	O1B-CGB	2.10	1.29	1.22
29	c9	203	PEB	O1B-CGB	2.10	1.29	1.22
29	KC	201	PEB	C4A-NA	-2.10	1.32	1.37
29	KE	201	PEB	C4A-NA	-2.10	1.32	1.37
31	N7	1001	CYC	C1B-C2B	2.10	1.48	1.45
31	N9	1001	CYC	C1B-C2B	2.10	1.48	1.45
29	m7	203	PEB	C4A-NA	-2.10	1.32	1.37
29	m9	203	PEB	C4A-NA	-2.10	1.32	1.37
31	TP	1001	CYC	C4A-C3A	2.10	1.50	1.45
31	J7	1001	CYC	C4B-NB	-2.10	1.33	1.38
29	H3	201	PEB	C4B-C3B	2.10	1.49	1.45
29	HO	201	PEB	C4B-C3B	2.10	1.49	1.45
29	hB	202	PEB	C2A-C1A	-2.10	1.50	1.52
29	gJ	202	PEB	C2A-C1A	-2.10	1.50	1.52
29	gL	202	PEB	C2A-C1A	-2.10	1.50	1.52
29	hM	202	PEB	C2A-C1A	-2.10	1.50	1.52
29	M3	202	PEB	C4A-NA	-2.10	1.32	1.37
29	MO	202	PEB	C4A-NA	-2.10	1.32	1.37
29	a7	203	PEB	O1B-CGB	2.10	1.29	1.22
29	a9	203	PEB	O1B-CGB	2.10	1.29	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	eP	1001	CYC	C4A-C3A	2.10	1.50	1.45
29	EG	201	PEB	C4A-NA	-2.10	1.32	1.37
29	EQ	201	PEB	C4A-NA	-2.10	1.32	1.37
31	EK	1001	CYC	C4B-NB	-2.10	1.33	1.38
29	i7	203	PEB	O1B-CGB	2.09	1.29	1.22
29	m7	203	PEB	O1B-CGB	2.09	1.29	1.22
29	i9	203	PEB	O1B-CGB	2.09	1.29	1.22
29	m9	203	PEB	O1B-CGB	2.09	1.29	1.22
29	T7	203	PEB	O1B-CGB	2.09	1.29	1.22
29	T9	203	PEB	O1B-CGB	2.09	1.29	1.22
29	P7	203	PEB	O1B-CGB	2.09	1.29	1.22
29	P9	203	PEB	O1B-CGB	2.09	1.29	1.22
29	AB	301	PEB	C4A-NA	-2.09	1.32	1.37
29	wL	302	PEB	C4B-C3B	2.09	1.49	1.45
31	F7	1001	CYC	C1A-NA	-2.09	1.34	1.38
29	C4	202	PEB	CHA-C4A	-2.09	1.32	1.36
29	CD	202	PEB	CHA-C4A	-2.09	1.32	1.36
29	L3	202	PEB	C4A-NA	-2.09	1.33	1.37
29	LO	202	PEB	C4A-NA	-2.09	1.33	1.37
31	N7	1001	CYC	C4B-NB	-2.09	1.33	1.38
31	N9	1001	CYC	C4B-NB	-2.09	1.33	1.38
29	V7	203	PEB	C4A-NA	-2.09	1.33	1.37
29	V9	203	PEB	C4A-NA	-2.09	1.33	1.37
29	jB	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	jM	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	V7	203	PEB	O1B-CGB	2.09	1.29	1.22
29	V9	203	PEB	O1B-CGB	2.09	1.29	1.22
31	L9	1001	CYC	C4B-NB	-2.09	1.33	1.38
29	G5	203	PEB	C4A-NA	-2.09	1.33	1.37
29	B5	203	PEB	C4A-NA	-2.09	1.33	1.37
29	zJ	501	PEB	C4A-NA	-2.09	1.33	1.37
29	NO	202	PEB	C4A-NA	-2.09	1.33	1.37
29	EJ	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	EL	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	F4	201	PEB	C3A-C4A	-2.09	1.47	1.50
29	HG	201	PEB	C4A-NA	-2.09	1.33	1.37
29	HQ	201	PEB	C4A-NA	-2.09	1.33	1.37
29	Q2	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	E4	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	OR	202	PEB	C2A-C1A	-2.09	1.50	1.52
29	S2	201	PEB	C4B-C3B	2.09	1.49	1.45
29	e7	203	PEB	C2A-C1A	-2.08	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	g7	203	PEB	C2A-C1A	-2.08	1.50	1.52
29	e9	203	PEB	C2A-C1A	-2.08	1.50	1.52
29	g9	203	PEB	C2A-C1A	-2.08	1.50	1.52
30	MA	403	PUB	C1C-NC	-2.08	1.34	1.38
29	I3	202	PEB	C4A-NA	-2.08	1.33	1.37
29	IO	202	PEB	C4A-NA	-2.08	1.33	1.37
29	MN	404	PEB	C4B-NB	-2.08	1.34	1.38
31	H7	1001	CYC	C1A-NA	-2.08	1.34	1.38
31	H9	1001	CYC	C1A-NA	-2.08	1.34	1.38
29	xL	301	PEB	C4B-C3B	2.08	1.49	1.45
29	xJ	303	PEB	C1C-CHB	2.08	1.49	1.41
29	C3	202	PEB	C4A-NA	-2.08	1.33	1.37
29	CO	202	PEB	C4A-NA	-2.08	1.33	1.37
29	e7	203	PEB	O1B-CGB	2.08	1.29	1.22
29	e9	203	PEB	O1B-CGB	2.08	1.29	1.22
29	EB	201	PEB	OD-C4D	2.08	1.27	1.23
29	EM	201	PEB	OD-C4D	2.08	1.27	1.23
29	FC	202	PEB	C4A-NA	-2.08	1.33	1.37
29	FE	202	PEB	C4A-NA	-2.08	1.33	1.37
29	G3	202	PEB	C1C-CHB	2.08	1.49	1.41
29	GO	202	PEB	C1C-CHB	2.08	1.49	1.41
29	dB	201	PEB	OD-C4D	2.08	1.27	1.23
29	dM	201	PEB	OD-C4D	2.08	1.27	1.23
29	MG	405	PEB	C2A-C1A	-2.08	1.50	1.52
29	KJ	202	PEB	C2A-C1A	-2.08	1.50	1.52
29	KL	202	PEB	C2A-C1A	-2.08	1.50	1.52
29	I3	202	PEB	C1C-CHB	2.08	1.49	1.41
29	IO	202	PEB	C1C-CHB	2.08	1.49	1.41
29	K3	202	PEB	C4A-NA	-2.08	1.33	1.37
29	KO	202	PEB	C4A-NA	-2.08	1.33	1.37
31	PP	1001	CYC	C4A-C3A	2.08	1.50	1.45
31	1P	1002	CYC	C1D-CHD	2.08	1.49	1.41
29	xL	302	PEB	C4B-C3B	2.08	1.49	1.45
29	L8	203	PEB	C4A-NA	-2.08	1.33	1.37
29	k7	203	PEB	C2A-C1A	-2.08	1.50	1.52
29	k9	203	PEB	C2A-C1A	-2.08	1.50	1.52
29	GD	202	PEB	C2A-C1A	-2.08	1.50	1.52
29	MA	404	PEB	C1B-C2B	2.08	1.50	1.45
29	A3	202	PEB	C4A-NA	-2.08	1.33	1.37
29	AO	202	PEB	C4A-NA	-2.08	1.33	1.37
29	qJ	202	PEB	C2A-C1A	-2.08	1.50	1.52
29	qL	202	PEB	C2A-C1A	-2.08	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	MN	403	PUB	C1C-NC	-2.07	1.34	1.38
29	S7	202	PEB	C4A-NA	-2.07	1.33	1.37
29	S9	202	PEB	C4A-NA	-2.07	1.33	1.37
29	j7	202	PEB	C4A-NA	-2.07	1.33	1.37
29	j9	202	PEB	C4A-NA	-2.07	1.33	1.37
31	I1	1001	CYC	C4B-NB	-2.07	1.33	1.38
29	P7	203	PEB	C4A-NA	-2.07	1.33	1.37
29	G8	203	PEB	C4A-NA	-2.07	1.33	1.37
29	P9	203	PEB	C4A-NA	-2.07	1.33	1.37
29	IC	201	PEB	C4A-NA	-2.07	1.33	1.37
29	IE	201	PEB	C4A-NA	-2.07	1.33	1.37
31	JP	1001	CYC	C4A-C3A	2.07	1.50	1.45
29	OB	201	PEB	OD-C4D	2.07	1.27	1.23
29	OM	201	PEB	OD-C4D	2.07	1.27	1.23
29	N3	202	PEB	C4A-NA	-2.07	1.33	1.37
31	IP	1001	CYC	C4A-C3A	2.07	1.50	1.45
29	CC	201	PEB	C4A-NA	-2.07	1.33	1.37
29	CE	201	PEB	C4A-NA	-2.07	1.33	1.37
30	MQ	404	PUB	CMB-C2B	2.07	1.55	1.51
29	aB	201	PEB	OD-C4D	2.07	1.27	1.23
29	aM	201	PEB	OD-C4D	2.07	1.27	1.23
31	CK	1001	CYC	C4B-NB	-2.07	1.33	1.38
29	D3	203	PEB	C4A-NA	-2.07	1.33	1.37
29	DO	203	PEB	C4A-NA	-2.07	1.33	1.37
29	JD	201	PEB	C3A-C4A	-2.07	1.47	1.50
29	wJ	302	PEB	C4B-C3B	2.07	1.49	1.45
30	xL	305	PUB	C4C-NC	2.07	1.38	1.35
29	wJ	301	PEB	C4B-C3B	2.07	1.49	1.45
29	B3	203	PEB	C4A-NA	-2.07	1.33	1.37
29	BO	203	PEB	C4A-NA	-2.07	1.33	1.37
29	g7	203	PEB	C4A-NA	-2.07	1.33	1.37
29	g9	203	PEB	C4A-NA	-2.07	1.33	1.37
29	H4	201	PEB	C3A-C4A	-2.07	1.47	1.50
29	CD	202	PEB	C2A-C1A	-2.07	1.50	1.52
29	K4	202	PEB	CHA-C4A	-2.07	1.32	1.36
29	KD	202	PEB	CHA-C4A	-2.07	1.32	1.36
29	wL	301	PEB	C4B-C3B	2.06	1.49	1.45
29	LC	202	PEB	C4A-NA	-2.06	1.33	1.37
29	LE	202	PEB	C4A-NA	-2.06	1.33	1.37
29	K3	202	PEB	C1C-CHB	2.06	1.49	1.41
29	KO	202	PEB	C1C-CHB	2.06	1.49	1.41
29	T2	201	PEB	C1C-CHB	2.06	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	YP	1000	CYC	C1D-CHD	2.06	1.49	1.41
29	H3	203	PEB	C4A-NA	-2.06	1.33	1.37
29	HO	203	PEB	C4A-NA	-2.06	1.33	1.37
29	A3	202	PEB	C1C-CHB	2.06	1.49	1.41
29	AO	202	PEB	C1C-CHB	2.06	1.49	1.41
29	MD	202	PEB	CHA-C4A	-2.06	1.32	1.36
29	C3	202	PEB	C1C-CHB	2.06	1.49	1.41
29	E3	202	PEB	C1C-CHB	2.06	1.49	1.41
29	CO	202	PEB	C1C-CHB	2.06	1.49	1.41
29	EO	202	PEB	C1C-CHB	2.06	1.49	1.41
29	hB	201	PEB	OD-C4D	2.06	1.27	1.23
29	hM	201	PEB	OD-C4D	2.06	1.27	1.23
29	IC	201	PEB	C4B-C3B	2.06	1.49	1.45
29	IE	201	PEB	C4B-C3B	2.06	1.49	1.45
29	KB	201	PEB	OD-C4D	2.06	1.27	1.23
29	KM	201	PEB	OD-C4D	2.06	1.27	1.23
29	J4	201	PEB	C3A-C4A	-2.06	1.47	1.50
29	J3	203	PEB	C4A-NA	-2.06	1.33	1.37
29	JO	203	PEB	C4A-NA	-2.06	1.33	1.37
29	YB	202	PEB	OD-C4D	2.06	1.27	1.23
29	YM	202	PEB	OD-C4D	2.06	1.27	1.23
29	aJ	202	PEB	C2A-C1A	-2.06	1.50	1.52
29	aL	202	PEB	C2A-C1A	-2.06	1.50	1.52
29	jB	201	PEB	OD-C4D	2.06	1.27	1.23
29	jM	201	PEB	OD-C4D	2.06	1.27	1.23
29	wL	303	PEB	C4B-C3B	2.06	1.49	1.45
29	QB	203	PEB	OD-C4D	2.06	1.27	1.23
29	QM	203	PEB	OD-C4D	2.06	1.27	1.23
29	DG	201	PEB	C4A-NA	-2.06	1.33	1.37
29	DQ	201	PEB	C4A-NA	-2.06	1.33	1.37
29	EC	201	PEB	C4A-NA	-2.06	1.33	1.37
29	EE	201	PEB	C4A-NA	-2.06	1.33	1.37
29	QR	202	PEB	C2A-C1A	-2.06	1.50	1.52
31	vP	1001	CYC	C4A-C3A	2.06	1.50	1.45
29	F3	203	PEB	C4A-NA	-2.06	1.33	1.37
29	b7	202	PEB	C4A-NA	-2.06	1.33	1.37
29	b9	202	PEB	C4A-NA	-2.06	1.33	1.37
29	FO	203	PEB	C4A-NA	-2.06	1.33	1.37
29	RR	201	PEB	C1C-CHB	2.06	1.49	1.41
29	a7	203	PEB	C2A-C1A	-2.06	1.50	1.52
29	a9	203	PEB	C2A-C1A	-2.06	1.50	1.52
29	YJ	202	PEB	C2A-C1A	-2.06	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	YL	202	PEB	C2A-C1A	-2.06	1.50	1.52
29	e7	203	PEB	C4A-NA	-2.06	1.33	1.37
29	e9	203	PEB	C4A-NA	-2.06	1.33	1.37
29	R2	201	PEB	C1C-CHB	2.05	1.49	1.41
29	V2	201	PEB	C1C-CHB	2.05	1.49	1.41
29	VR	201	PEB	C1C-CHB	2.05	1.49	1.41
29	a7	203	PEB	C4A-NA	-2.05	1.33	1.37
29	a9	203	PEB	C4A-NA	-2.05	1.33	1.37
29	TR	201	PEB	C1C-CHB	2.05	1.49	1.41
29	HC	202	PEB	C4A-NA	-2.05	1.33	1.37
29	HE	202	PEB	C4A-NA	-2.05	1.33	1.37
29	KD	202	PEB	C2A-C1A	-2.05	1.50	1.52
29	KC	202	PEB	C4A-NA	-2.05	1.33	1.37
29	KE	202	PEB	C4A-NA	-2.05	1.33	1.37
29	h7	202	PEB	C4A-NA	-2.05	1.33	1.37
29	h9	202	PEB	C4A-NA	-2.05	1.33	1.37
31	DF	1001	CYC	C1B-C2B	2.05	1.48	1.45
31	DI	1001	CYC	C1B-C2B	2.05	1.48	1.45
29	CB	201	PEB	OD-C4D	2.05	1.27	1.23
29	CM	201	PEB	OD-C4D	2.05	1.27	1.23
29	R7	203	PEB	C4A-NA	-2.05	1.33	1.37
29	R9	203	PEB	C4A-NA	-2.05	1.33	1.37
30	AF	302	PUB	C3C-C4C	2.05	1.50	1.43
30	AI	302	PUB	C3C-C4C	2.05	1.50	1.43
29	A9	304	PEB	C2A-C1A	-2.05	1.50	1.52
29	AJ	202	PEB	C2A-C1A	-2.05	1.50	1.52
29	AL	202	PEB	C2A-C1A	-2.05	1.50	1.52
29	BG	201	PEB	C4A-NA	-2.05	1.33	1.37
29	FG	201	PEB	C4A-NA	-2.05	1.33	1.37
29	BQ	201	PEB	C4A-NA	-2.05	1.33	1.37
29	FQ	201	PEB	C4A-NA	-2.05	1.33	1.37
29	FD	201	PEB	C3A-C4A	-2.05	1.47	1.50
31	LF	1001	CYC	C4A-C3A	2.05	1.50	1.45
31	LI	1001	CYC	C4A-C3A	2.05	1.50	1.45
30	MQ	405	PUB	C1C-C2C	2.05	1.49	1.45
29	G3	202	PEB	C4A-NA	-2.05	1.33	1.37
29	GO	202	PEB	C4A-NA	-2.05	1.33	1.37
29	JJ	202	PEB	C4B-NB	-2.05	1.34	1.38
29	JL	202	PEB	C4B-NB	-2.05	1.34	1.38
29	UB	201	PEB	OD-C4D	2.04	1.27	1.23
29	UM	201	PEB	OD-C4D	2.04	1.27	1.23
31	AP	1001	CYC	C4C-NC	-2.04	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	MQ	403	PEB	CHA-C4A	-2.04	1.32	1.36
29	CJ	202	PEB	C2A-C1A	-2.04	1.50	1.52
29	CL	202	PEB	C2A-C1A	-2.04	1.50	1.52
29	LD	201	PEB	C3A-C4A	-2.04	1.47	1.50
29	MG	404	PEB	C4A-NA	-2.04	1.33	1.37
29	wL	302	PEB	C1B-C2B	2.04	1.50	1.45
29	e2	402	PEB	C1C-CHB	2.04	1.49	1.41
29	XR	201	PEB	C1C-CHB	2.04	1.49	1.41
29	pJ	202	PEB	C4B-NB	-2.04	1.34	1.38
29	pL	202	PEB	C4B-NB	-2.04	1.34	1.38
29	NO	203	PEB	C1B-C2B	2.04	1.50	1.45
29	Y7	203	PEB	C4A-NA	-2.04	1.33	1.37
29	Y9	203	PEB	C4A-NA	-2.04	1.33	1.37
29	SB	201	PEB	OD-C4D	2.04	1.27	1.23
29	SM	201	PEB	OD-C4D	2.04	1.27	1.23
29	OJ	202	PEB	C2A-C1A	-2.04	1.50	1.52
29	OL	202	PEB	C2A-C1A	-2.04	1.50	1.52
29	c7	203	PEB	C4A-NA	-2.04	1.33	1.37
29	c9	203	PEB	C4A-NA	-2.04	1.33	1.37
29	MQ	406	PEB	C4A-NA	-2.04	1.33	1.37
29	N2	201	PEB	C1C-CHB	2.04	1.49	1.41
29	TJ	202	PEB	C4B-NB	-2.04	1.34	1.38
29	TL	202	PEB	C4B-NB	-2.04	1.34	1.38
29	WR	201	PEB	C4B-NB	-2.04	1.34	1.38
29	fB	201	PEB	OD-C4D	2.04	1.27	1.23
29	fM	201	PEB	OD-C4D	2.04	1.27	1.23
29	PJ	202	PEB	C4B-NB	-2.04	1.34	1.38
29	PL	202	PEB	C4B-NB	-2.04	1.34	1.38
31	JF	1001	CYC	C4A-C3A	2.04	1.50	1.45
31	JI	1001	CYC	C4A-C3A	2.04	1.50	1.45
29	SR	201	PEB	C1C-CHB	2.04	1.49	1.41
29	MG	401	PEB	CHA-C4A	-2.04	1.32	1.36
29	Z7	202	PEB	C4A-NA	-2.04	1.33	1.37
29	Z9	202	PEB	C4A-NA	-2.04	1.33	1.37
31	GP	1001	CYC	C4C-NC	-2.04	1.33	1.37
29	M4	202	PEB	C2A-C1A	-2.03	1.50	1.52
29	C3	201	PEB	C1B-C2B	2.03	1.50	1.45
29	CO	201	PEB	C1B-C2B	2.03	1.50	1.45
29	D4	201	PEB	C1C-CHB	2.03	1.49	1.41
31	HF	1001	CYC	C1B-C2B	2.03	1.48	1.45
31	HI	1001	CYC	C1B-C2B	2.03	1.48	1.45
29	xJ	302	PEB	C1B-C2B	2.03	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	cJ	202	PEB	C2A-C1A	-2.03	1.50	1.52
29	cL	202	PEB	C2A-C1A	-2.03	1.50	1.52
31	M7	1001	CYC	C4D-CHA	2.03	1.49	1.41
30	MG	403	PUB	C1C-C2C	2.03	1.48	1.45
29	bJ	202	PEB	C4B-NB	-2.03	1.34	1.38
29	bL	202	PEB	C4B-NB	-2.03	1.34	1.38
29	E3	201	PEB	C1B-C2B	2.03	1.50	1.45
29	G3	201	PEB	C1B-C2B	2.03	1.50	1.45
29	EO	201	PEB	C1B-C2B	2.03	1.50	1.45
29	GO	201	PEB	C1B-C2B	2.03	1.50	1.45
29	i7	203	PEB	C4A-NA	-2.03	1.33	1.37
29	i9	203	PEB	C4A-NA	-2.03	1.33	1.37
31	yP	1001	CYC	C4A-C3A	2.03	1.50	1.45
29	JG	201	PEB	C4A-NA	-2.03	1.33	1.37
29	JQ	201	PEB	C4A-NA	-2.03	1.33	1.37
29	BD	201	PEB	C3A-C4A	-2.03	1.47	1.50
29	AB	303	PEB	C4A-NA	-2.03	1.33	1.37
29	MG	405	PEB	C4A-NA	-2.03	1.33	1.37
31	C7	1001	CYC	C4D-CHA	2.03	1.49	1.41
31	C9	1001	CYC	C4D-CHA	2.03	1.49	1.41
29	R7	203	PEB	C2A-C1A	-2.03	1.50	1.52
29	R9	203	PEB	C2A-C1A	-2.03	1.50	1.52
29	xL	302	PEB	C1B-C2B	2.03	1.50	1.45
29	P7	203	PEB	C2A-C1A	-2.03	1.50	1.52
29	P9	203	PEB	C2A-C1A	-2.03	1.50	1.52
29	MR	202	PEB	C1C-CHB	2.03	1.49	1.41
29	NJ	202	PEB	C4B-NB	-2.03	1.34	1.38
29	NL	202	PEB	C4B-NB	-2.03	1.34	1.38
29	kJ	202	PEB	C2A-C1A	-2.03	1.50	1.52
29	kL	202	PEB	C2A-C1A	-2.03	1.50	1.52
29	GC	201	PEB	C4A-NA	-2.03	1.33	1.37
29	GE	201	PEB	C4A-NA	-2.03	1.33	1.37
29	wJ	303	PEB	C4B-C3B	2.03	1.48	1.45
30	xJ	305	PUB	C4C-NC	2.03	1.38	1.35
29	KA	202	PEB	C4A-NA	-2.03	1.33	1.37
29	KN	202	PEB	C4A-NA	-2.03	1.33	1.37
29	IC	202	PEB	C4A-NA	-2.03	1.33	1.37
29	IE	202	PEB	C4A-NA	-2.03	1.33	1.37
29	DC	201	PEB	C4A-NA	-2.03	1.33	1.37
29	DE	201	PEB	C4A-NA	-2.03	1.33	1.37
29	P2	201	PEB	C2A-C1A	-2.03	1.50	1.52
29	T7	203	PEB	C2A-C1A	-2.03	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	T9	203	PEB	C2A-C1A	-2.03	1.50	1.52
29	JD	201	PEB	C1C-CHB	2.03	1.49	1.41
29	W2	201	PEB	C4B-NB	-2.03	1.34	1.38
29	DC	201	PEB	C1C-CHB	2.03	1.49	1.41
29	DE	201	PEB	C1C-CHB	2.03	1.49	1.41
29	K4	202	PEB	C2A-C1A	-2.03	1.50	1.52
29	ED	201	PEB	C2A-C1A	-2.03	1.50	1.52
31	1P	1001	CYC	C1B-NB	-2.03	1.34	1.37
30	QB	201	PUB	C3C-C4C	2.03	1.50	1.43
30	QM	201	PUB	C3C-C4C	2.03	1.50	1.43
29	dJ	202	PEB	C4B-NB	-2.03	1.34	1.38
29	dL	202	PEB	C4B-NB	-2.03	1.34	1.38
29	TF	201	PEB	C1C-CHB	2.03	1.49	1.41
29	IB	201	PEB	OD-C4D	2.02	1.27	1.23
29	IM	201	PEB	OD-C4D	2.02	1.27	1.23
29	Q7	202	PEB	C4A-NA	-2.02	1.33	1.37
29	Q9	202	PEB	C4A-NA	-2.02	1.33	1.37
31	cP	1001	CYC	C4C-NC	-2.02	1.33	1.37
29	HC	201	PEB	C4A-NA	-2.02	1.33	1.37
29	HE	201	PEB	C4A-NA	-2.02	1.33	1.37
31	FF	1001	CYC	C4A-C3A	2.02	1.50	1.45
31	FI	1001	CYC	C4A-C3A	2.02	1.50	1.45
31	WP	1001	CYC	C4A-C3A	2.02	1.50	1.45
29	LD	201	PEB	C1C-CHB	2.02	1.49	1.41
29	H3	202	PEB	C1C-CHB	2.02	1.49	1.41
29	FD	201	PEB	C1C-CHB	2.02	1.49	1.41
29	HO	202	PEB	C1C-CHB	2.02	1.49	1.41
31	M9	1001	CYC	C4D-CHA	2.02	1.49	1.41
29	EG	202	PEB	C2A-C1A	-2.02	1.50	1.52
29	EQ	202	PEB	C2A-C1A	-2.02	1.50	1.52
29	MA	405	PEB	C1D-ND	2.02	1.48	1.45
31	E7	1001	CYC	C4D-CHA	2.02	1.49	1.41
31	E9	1001	CYC	C4D-CHA	2.02	1.49	1.41
31	tP	1001	CYC	C4C-NC	-2.02	1.33	1.37
29	NR	201	PEB	C1C-CHB	2.02	1.49	1.41
29	uJ	201	PEB	C4B-NB	-2.02	1.34	1.38
29	uL	201	PEB	C4B-NB	-2.02	1.34	1.38
29	GJ	202	PEB	C2A-C1A	-2.02	1.50	1.52
29	GL	202	PEB	C2A-C1A	-2.02	1.50	1.52
29	rJ	202	PEB	C4B-NB	-2.02	1.34	1.38
29	rL	202	PEB	C4B-NB	-2.02	1.34	1.38
29	AM	303	PEB	C4A-NA	-2.02	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	a1	202	PEB	C4A-NA	-2.02	1.33	1.37
29	aK	202	PEB	C4A-NA	-2.02	1.33	1.37
29	MQ	407	PEB	C2A-C1A	-2.02	1.50	1.52
29	HC	201	PEB	C1C-CHB	2.02	1.48	1.41
29	HE	201	PEB	C1C-CHB	2.02	1.48	1.41
31	FF	1001	CYC	C1B-C2B	2.02	1.48	1.45
31	FI	1001	CYC	C1B-C2B	2.02	1.48	1.45
29	HD	201	PEB	C3A-C4A	-2.02	1.47	1.50
29	H4	201	PEB	C1C-CHB	2.02	1.48	1.41
29	lB	201	PEB	OD-C4D	2.02	1.27	1.23
29	lM	201	PEB	OD-C4D	2.02	1.27	1.23
29	QR	201	PEB	C4B-NB	-2.02	1.34	1.38
29	WB	201	PEB	OD-C4D	2.02	1.27	1.23
29	WM	201	PEB	OD-C4D	2.02	1.27	1.23
31	NF	1001	CYC	C1B-C2B	2.02	1.48	1.45
31	NI	1001	CYC	C1B-C2B	2.02	1.48	1.45
29	xJ	303	PEB	C4B-C3B	2.02	1.48	1.45
29	LG	201	PEB	C4A-NA	-2.02	1.33	1.37
29	MQ	402	PEB	C4A-NA	-2.02	1.33	1.37
31	NF	1001	CYC	C4A-C3A	2.02	1.50	1.45
31	NI	1001	CYC	C4A-C3A	2.02	1.50	1.45
29	d7	202	PEB	C4A-NA	-2.02	1.33	1.37
29	d9	202	PEB	C4A-NA	-2.02	1.33	1.37
29	GB	201	PEB	OD-C4D	2.02	1.27	1.23
29	GM	201	PEB	OD-C4D	2.02	1.27	1.23
29	W7	202	PEB	C4A-NA	-2.02	1.33	1.37
29	W9	202	PEB	C4A-NA	-2.02	1.33	1.37
31	iP	1001	CYC	C4C-NC	-2.02	1.33	1.37
29	J4	201	PEB	C1C-CHB	2.02	1.48	1.41
29	f7	202	PEB	C4A-NA	-2.02	1.33	1.37
29	f9	202	PEB	C4A-NA	-2.02	1.33	1.37
29	AA	202	PEB	C4A-NA	-2.02	1.33	1.37
29	AN	202	PEB	C4A-NA	-2.02	1.33	1.37
31	I7	1001	CYC	C4D-CHA	2.02	1.48	1.41
31	I9	1001	CYC	C4D-CHA	2.02	1.48	1.41
29	HJ	201	PEB	C4B-NB	-2.02	1.34	1.38
29	HL	201	PEB	C4B-NB	-2.02	1.34	1.38
29	V1	202	PEB	C4A-NA	-2.02	1.33	1.37
29	VK	202	PEB	C4A-NA	-2.02	1.33	1.37
29	B4	201	PEB	C3A-C4A	-2.02	1.47	1.50
29	U7	202	PEB	C4A-NA	-2.02	1.33	1.37
29	U9	202	PEB	C4A-NA	-2.02	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	G7	1001	CYC	C4D-CHA	2.02	1.48	1.41
31	G9	1001	CYC	C4D-CHA	2.02	1.48	1.41
31	RP	1001	CYC	C4C-NC	-2.02	1.33	1.37
29	P1	202	PEB	C4A-NA	-2.01	1.33	1.37
29	PK	202	PEB	C4A-NA	-2.01	1.33	1.37
31	K7	1001	CYC	C4D-CHA	2.01	1.48	1.41
29	R1	202	PEB	C4A-NA	-2.01	1.33	1.37
29	RK	202	PEB	C4A-NA	-2.01	1.33	1.37
29	S2	201	PEB	C1C-CHB	2.01	1.48	1.41
29	DD	201	PEB	C1C-CHB	2.01	1.48	1.41
29	O7	202	PEB	C4A-NA	-2.01	1.33	1.37
29	O9	202	PEB	C4A-NA	-2.01	1.33	1.37
29	KC	202	PEB	C4B-C3B	2.01	1.48	1.45
29	KE	202	PEB	C4B-C3B	2.01	1.48	1.45
29	wJ	302	PEB	C1B-C2B	2.01	1.50	1.45
30	wJ	305	PUB	C4C-NC	2.01	1.38	1.35
31	JP	1001	CYC	C4C-NC	-2.01	1.33	1.37
31	NP	1001	CYC	C4C-NC	-2.01	1.33	1.37
29	FJ	202	PEB	C4B-NB	-2.01	1.34	1.38
29	FL	202	PEB	C4B-NB	-2.01	1.34	1.38
29	DO	202	PEB	C4A-NA	-2.01	1.33	1.37
29	IJ	202	PEB	C4B-NB	-2.01	1.34	1.38
29	IL	202	PEB	C4B-NB	-2.01	1.34	1.38
29	wL	303	PEB	C4A-NA	-2.01	1.33	1.37
29	m7	203	PEB	C2A-C1A	-2.01	1.50	1.52
29	m9	203	PEB	C2A-C1A	-2.01	1.50	1.52
29	EC	202	PEB	C4A-NA	-2.01	1.33	1.37
29	EE	202	PEB	C4A-NA	-2.01	1.33	1.37
29	JC	201	PEB	C1C-CHB	2.01	1.48	1.41
29	JE	201	PEB	C1C-CHB	2.01	1.48	1.41
29	BJ	202	PEB	C4B-NB	-2.01	1.34	1.38
29	BL	202	PEB	C4B-NB	-2.01	1.34	1.38
29	B4	201	PEB	C1C-CHB	2.01	1.48	1.41
31	IK	1001	CYC	C1B-C2B	2.01	1.48	1.45
29	FC	201	PEB	C1C-CHB	2.01	1.48	1.41
29	FE	201	PEB	C1C-CHB	2.01	1.48	1.41
29	CA	202	PEB	C4A-NA	-2.01	1.33	1.37
29	CN	202	PEB	C4A-NA	-2.01	1.33	1.37
29	k1	202	PEB	C4A-NA	-2.01	1.33	1.37
29	FC	201	PEB	C4A-NA	-2.01	1.33	1.37
29	FE	201	PEB	C4A-NA	-2.01	1.33	1.37
29	kK	202	PEB	C4A-NA	-2.01	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	A1	305	PUB	C1A-NA	2.01	1.37	1.35
30	AK	305	PUB	C1A-NA	2.01	1.37	1.35
29	MQ	403	PEB	C1D-ND	2.01	1.48	1.45
31	LF	1001	CYC	C1B-C2B	2.01	1.48	1.45
31	LI	1001	CYC	C1B-C2B	2.01	1.48	1.45
29	L7	1002	PEB	CMD-C2D	-2.01	1.47	1.50
29	HD	201	PEB	C1C-CHB	2.01	1.48	1.41
29	UR	201	PEB	C4B-NB	-2.01	1.34	1.38
29	MB	201	PEB	OD-C4D	2.01	1.27	1.23
29	MM	201	PEB	OD-C4D	2.01	1.27	1.23
29	LC	201	PEB	C1C-CHB	2.00	1.48	1.41
29	LE	201	PEB	C1C-CHB	2.00	1.48	1.41
29	U1	201	PEB	C4A-NA	-2.00	1.33	1.37
29	UK	201	PEB	C4A-NA	-2.00	1.33	1.37
29	BC	201	PEB	C1C-CHB	2.00	1.48	1.41
29	BE	201	PEB	C1C-CHB	2.00	1.48	1.41
29	rJ	201	PEB	C1C-CHB	2.00	1.48	1.41
29	rL	201	PEB	C1C-CHB	2.00	1.48	1.41
29	e1	202	PEB	C4A-NA	-2.00	1.33	1.37
29	g1	202	PEB	C4A-NA	-2.00	1.33	1.37
29	eK	202	PEB	C4A-NA	-2.00	1.33	1.37
29	gK	202	PEB	C4A-NA	-2.00	1.33	1.37
29	M3	203	PEB	C1B-C2B	2.00	1.50	1.45
29	MO	203	PEB	C1B-C2B	2.00	1.50	1.45
29	BD	201	PEB	C1C-CHB	2.00	1.48	1.41
31	K9	1001	CYC	C4D-CHA	2.00	1.48	1.41
29	sJ	203	PEB	C4B-NB	-2.00	1.34	1.38
29	sL	203	PEB	C4B-NB	-2.00	1.34	1.38
29	JA	203	PEB	C4A-NA	-2.00	1.33	1.37
29	JN	203	PEB	C4A-NA	-2.00	1.33	1.37
29	j1	203	PEB	C4A-NA	-2.00	1.33	1.37
29	jK	203	PEB	C4A-NA	-2.00	1.33	1.37
29	I3	201	PEB	C1B-C2B	2.00	1.50	1.45
29	IO	201	PEB	C1B-C2B	2.00	1.50	1.45
31	HF	1001	CYC	C4A-C3A	2.00	1.50	1.45
31	HI	1001	CYC	C4A-C3A	2.00	1.50	1.45
29	jJ	202	PEB	C4B-NB	-2.00	1.34	1.38
29	jL	202	PEB	C4B-NB	-2.00	1.34	1.38
29	dJ	201	PEB	C1C-CHB	2.00	1.48	1.41
29	dL	201	PEB	C1C-CHB	2.00	1.48	1.41
31	vP	1001	CYC	C4C-NC	-2.00	1.33	1.37
29	MN	405	PEB	C1D-ND	2.00	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	O2	201	PEB	C4B-NB	-2.00	1.34	1.38
29	OR	201	PEB	C4B-NB	-2.00	1.34	1.38
29	wJ	303	PEB	C4A-NA	-2.00	1.33	1.37
29	DO	202	PEB	C1C-CHB	2.00	1.48	1.41

All (23317) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A1	305	PUB	CBA-CAA-C3A	-16.33	88.22	112.98
30	AK	305	PUB	CBA-CAA-C3A	-16.33	88.22	112.98
30	A1	305	PUB	C2A-C1A-NA	14.04	119.67	107.21
30	AK	305	PUB	C2A-C1A-NA	14.04	119.67	107.21
30	wL	305	PUB	C2A-C1A-NA	12.40	118.21	107.21
30	xL	305	PUB	C2A-C1A-NA	12.38	118.19	107.21
30	wJ	305	PUB	C2A-C1A-NA	12.33	118.15	107.21
30	xJ	305	PUB	C2A-C1A-NA	12.31	118.13	107.21
29	ZJ	201	PEB	OA-C1A-C2A	-12.23	116.45	126.17
29	ZL	201	PEB	OA-C1A-C2A	-12.23	116.45	126.17
29	hJ	201	PEB	OA-C1A-C2A	-12.20	116.47	126.17
29	hL	201	PEB	OA-C1A-C2A	-12.20	116.47	126.17
29	NJ	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	NL	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	nJ	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	vJ	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	nL	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	vL	201	PEB	OA-C1A-C2A	-12.19	116.48	126.17
29	lJ	201	PEB	OA-C1A-C2A	-12.18	116.48	126.17
29	lL	201	PEB	OA-C1A-C2A	-12.18	116.48	126.17
29	RJ	201	PEB	OA-C1A-C2A	-12.18	116.49	126.17
29	RL	201	PEB	OA-C1A-C2A	-12.18	116.49	126.17
29	VJ	201	PEB	OA-C1A-C2A	-12.18	116.49	126.17
29	VL	201	PEB	OA-C1A-C2A	-12.18	116.49	126.17
29	LJ	201	PEB	OA-C1A-C2A	-12.17	116.50	126.17
29	dJ	201	PEB	OA-C1A-C2A	-12.17	116.50	126.17
29	LL	201	PEB	OA-C1A-C2A	-12.17	116.50	126.17
29	dL	201	PEB	OA-C1A-C2A	-12.17	116.50	126.17
29	BJ	201	PEB	OA-C1A-C2A	-12.16	116.51	126.17
29	fJ	201	PEB	OA-C1A-C2A	-12.16	116.51	126.17
29	BL	201	PEB	OA-C1A-C2A	-12.16	116.51	126.17
29	fL	201	PEB	OA-C1A-C2A	-12.16	116.51	126.17
29	TJ	201	PEB	OA-C1A-C2A	-12.15	116.51	126.17
29	TL	201	PEB	OA-C1A-C2A	-12.15	116.51	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bJ	201	PEB	OA-C1A-C2A	-12.15	116.51	126.17
29	bL	201	PEB	OA-C1A-C2A	-12.15	116.51	126.17
29	JJ	201	PEB	OA-C1A-C2A	-12.14	116.52	126.17
29	pJ	201	PEB	OA-C1A-C2A	-12.14	116.52	126.17
29	JL	201	PEB	OA-C1A-C2A	-12.14	116.52	126.17
29	pL	201	PEB	OA-C1A-C2A	-12.14	116.52	126.17
29	FJ	201	PEB	OA-C1A-C2A	-12.13	116.53	126.17
29	FL	201	PEB	OA-C1A-C2A	-12.13	116.53	126.17
29	DJ	201	PEB	OA-C1A-C2A	-12.11	116.54	126.17
29	DL	201	PEB	OA-C1A-C2A	-12.11	116.54	126.17
29	rJ	201	PEB	OA-C1A-C2A	-12.11	116.54	126.17
29	rL	201	PEB	OA-C1A-C2A	-12.11	116.54	126.17
29	PJ	201	PEB	OA-C1A-C2A	-12.11	116.55	126.17
29	PL	201	PEB	OA-C1A-C2A	-12.11	116.55	126.17
29	tJ	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	tL	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	XJ	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	jJ	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	XL	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	jL	201	PEB	OA-C1A-C2A	-12.10	116.55	126.17
29	CA	202	PEB	CHB-C4B-NB	-11.81	112.44	128.83
29	CN	202	PEB	CHB-C4B-NB	-11.81	112.44	128.83
29	KA	202	PEB	CHB-C4B-NB	-11.79	112.48	128.83
29	KN	202	PEB	CHB-C4B-NB	-11.79	112.48	128.83
29	EA	202	PEB	CHB-C4B-NB	-11.79	112.48	128.83
29	EN	202	PEB	CHB-C4B-NB	-11.79	112.48	128.83
29	AA	202	PEB	CHB-C4B-NB	-11.77	112.50	128.83
29	AN	202	PEB	CHB-C4B-NB	-11.77	112.50	128.83
29	IA	202	PEB	CHB-C4B-NB	-11.76	112.52	128.83
29	IN	202	PEB	CHB-C4B-NB	-11.76	112.52	128.83
29	GA	202	PEB	CHB-C4B-NB	-11.73	112.56	128.83
29	GN	202	PEB	CHB-C4B-NB	-11.73	112.56	128.83
31	mP	1001	CYC	C3B-C4B-NB	11.64	116.18	106.78
31	AP	1001	CYC	C3B-C4B-NB	11.62	116.17	106.78
31	gP	1001	CYC	C3B-C4B-NB	11.62	116.16	106.78
31	PP	1001	CYC	C3B-C4B-NB	11.61	116.16	106.78
31	iP	1001	CYC	C3B-C4B-NB	11.61	116.16	106.78
31	tP	1001	CYC	C3B-C4B-NB	11.60	116.15	106.78
31	lP	1001	CYC	C3B-C4B-NB	11.60	116.15	106.78
31	JP	1001	CYC	C3B-C4B-NB	11.59	116.14	106.78
31	pP	1001	CYC	C3B-C4B-NB	11.59	116.14	106.78
31	vP	1001	CYC	C3B-C4B-NB	11.58	116.14	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	TP	1001	CYC	C3B-C4B-NB	11.58	116.13	106.78
31	NP	1001	CYC	C3B-C4B-NB	11.57	116.13	106.78
31	RP	1001	CYC	C3B-C4B-NB	11.57	116.12	106.78
31	KP	1001	CYC	C3B-C4B-NB	11.55	116.11	106.78
31	GP	1001	CYC	C3B-C4B-NB	11.55	116.11	106.78
31	rP	1001	CYC	C3B-C4B-NB	11.55	116.11	106.78
31	CP	1001	CYC	C3B-C4B-NB	11.54	116.11	106.78
31	EP	1001	CYC	C3B-C4B-NB	11.54	116.10	106.78
31	eP	1001	CYC	C3B-C4B-NB	11.52	116.09	106.78
31	cP	1001	CYC	C3B-C4B-NB	11.49	116.06	106.78
30	BB	302	PUB	C2A-C1A-NA	11.40	117.32	107.21
30	BM	302	PUB	C2A-C1A-NA	11.40	117.32	107.21
31	J9	1001	CYC	C3B-C4B-NB	11.22	115.84	106.78
31	N7	1001	CYC	C3B-C4B-NB	11.21	115.83	106.78
31	F9	1001	CYC	C3B-C4B-NB	11.21	115.83	106.78
31	N9	1001	CYC	C3B-C4B-NB	11.21	115.83	106.78
31	D7	1001	CYC	C3B-C4B-NB	11.21	115.83	106.78
31	D9	1001	CYC	C3B-C4B-NB	11.21	115.83	106.78
31	nP	1001	CYC	C3B-C4B-NB	11.20	115.83	106.78
31	F7	1001	CYC	C3B-C4B-NB	11.20	115.83	106.78
31	kP	1001	CYC	C3B-C4B-NB	11.19	115.82	106.78
31	H7	1001	CYC	C3B-C4B-NB	11.18	115.81	106.78
31	H9	1001	CYC	C3B-C4B-NB	11.18	115.81	106.78
31	QP	1001	CYC	C3B-C4B-NB	11.18	115.81	106.78
31	J7	1001	CYC	C3B-C4B-NB	11.18	115.81	106.78
31	oP	1001	CYC	C3B-C4B-NB	11.17	115.81	106.78
31	SP	1001	CYC	C3B-C4B-NB	11.17	115.80	106.78
31	1P	1001	CYC	C3B-C4B-NB	11.16	115.80	106.78
31	BP	1001	CYC	C3B-C4B-NB	11.16	115.79	106.78
31	HP	1001	CYC	C3B-C4B-NB	11.15	115.79	106.78
30	MQ	404	PUB	C2A-C1A-NA	11.15	117.10	107.21
31	jP	1001	CYC	C3B-C4B-NB	11.15	115.78	106.78
31	L7	1001	CYC	C3B-C4B-NB	11.14	115.78	106.78
31	hP	1001	CYC	C3B-C4B-NB	11.14	115.78	106.78
31	sP	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
31	MP	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
31	uP	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
31	DP	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
31	fP	1001	CYC	C3B-C4B-NB	11.13	115.77	106.78
31	UP	1001	CYC	C3B-C4B-NB	11.12	115.76	106.78
31	FP	1001	CYC	C3B-C4B-NB	11.12	115.76	106.78
31	qP	1001	CYC	C3B-C4B-NB	11.12	115.76	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	OP	1001	CYC	C3B-C4B-NB	11.12	115.76	106.78
30	MG	402	PUB	C2A-C1A-NA	11.12	117.07	107.21
31	XP	1001	CYC	C3B-C4B-NB	11.11	115.76	106.78
31	L9	1001	CYC	C3B-C4B-NB	11.11	115.75	106.78
31	wP	1001	CYC	C3B-C4B-NB	11.10	115.75	106.78
30	MN	402	PUB	C2A-C1A-NA	11.10	117.06	107.21
31	IP	1001	CYC	C3B-C4B-NB	11.09	115.74	106.78
30	MA	402	PUB	C2A-C1A-NA	11.09	117.05	107.21
30	AF	302	PUB	C2A-C1A-NA	11.09	117.05	107.21
30	AI	302	PUB	C2A-C1A-NA	11.09	117.05	107.21
30	A7	303	PUB	C2A-C1A-NA	11.06	117.02	107.21
30	A9	303	PUB	C2A-C1A-NA	11.06	117.02	107.21
30	A7	302	PUB	C2A-C1A-NA	11.02	116.99	107.21
30	A9	302	PUB	C2A-C1A-NA	11.02	116.99	107.21
31	D1	1001	CYC	C3B-C4B-NB	10.97	115.64	106.78
31	LF	1001	CYC	C3B-C4B-NB	10.94	115.61	106.78
31	LI	1001	CYC	C3B-C4B-NB	10.94	115.61	106.78
31	NF	1001	CYC	C3B-C4B-NB	10.93	115.61	106.78
31	NI	1001	CYC	C3B-C4B-NB	10.93	115.61	106.78
31	FF	1001	CYC	C3B-C4B-NB	10.93	115.61	106.78
31	FI	1001	CYC	C3B-C4B-NB	10.93	115.61	106.78
31	HF	1001	CYC	C3B-C4B-NB	10.92	115.60	106.78
31	HI	1001	CYC	C3B-C4B-NB	10.92	115.60	106.78
30	AF	303	PUB	C2A-C1A-NA	10.92	116.89	107.21
30	AI	303	PUB	C2A-C1A-NA	10.92	116.89	107.21
30	MQ	404	PUB	CBB-CAB-C3B	10.91	131.24	112.62
31	F1	1001	CYC	C3B-C4B-NB	10.89	115.58	106.78
31	FK	1001	CYC	C3B-C4B-NB	10.89	115.58	106.78
31	DK	1001	CYC	C3B-C4B-NB	10.89	115.58	106.78
29	MQ	407	PEB	C1C-CHB-C4B	-10.89	115.81	128.81
31	JF	1001	CYC	C3B-C4B-NB	10.88	115.57	106.78
31	JI	1001	CYC	C3B-C4B-NB	10.88	115.57	106.78
31	NK	1001	CYC	C3B-C4B-NB	10.88	115.57	106.78
30	A1	304	PUB	C2A-C1A-NA	10.88	116.86	107.21
30	AK	304	PUB	C2A-C1A-NA	10.88	116.86	107.21
30	MG	402	PUB	CBB-CAB-C3B	10.87	131.18	112.62
31	J1	1001	CYC	C3B-C4B-NB	10.87	115.56	106.78
31	JK	1001	CYC	C3B-C4B-NB	10.87	115.56	106.78
31	DF	1001	CYC	C3B-C4B-NB	10.87	115.56	106.78
31	DI	1001	CYC	C3B-C4B-NB	10.87	115.56	106.78
31	GK	1001	CYC	C3B-C4B-NB	10.86	115.55	106.78
30	QB	201	PUB	C2A-C1A-NA	10.86	116.84	107.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	QM	201	PUB	C2A-C1A-NA	10.86	116.84	107.21
31	D1	1003	CYC	C3B-C4B-NB	10.86	115.55	106.78
31	M1	1001	CYC	C3B-C4B-NB	10.86	115.55	106.78
31	MK	1001	CYC	C3B-C4B-NB	10.86	115.55	106.78
31	L1	1001	CYC	C3B-C4B-NB	10.86	115.55	106.78
31	LK	1001	CYC	C3B-C4B-NB	10.86	115.55	106.78
29	MG	405	PEB	C1C-CHB-C4B	-10.85	115.85	128.81
30	xJ	304	PUB	C2A-C1A-NA	10.84	116.83	107.21
31	N1	1001	CYC	C3B-C4B-NB	10.84	115.54	106.78
30	MQ	405	PUB	C2A-C1A-NA	10.84	116.82	107.21
30	wJ	304	PUB	C2A-C1A-NA	10.83	116.81	107.21
31	E1	1001	CYC	C3B-C4B-NB	10.83	115.53	106.78
30	xL	304	PUB	C2A-C1A-NA	10.82	116.81	107.21
30	MG	403	PUB	C2A-C1A-NA	10.82	116.80	107.21
30	wL	304	PUB	C2A-C1A-NA	10.82	116.80	107.21
31	KF	1001	CYC	C3B-C4B-NB	10.81	115.51	106.78
31	HK	1001	CYC	C3B-C4B-NB	10.80	115.51	106.78
31	VP	1001	CYC	C3B-C4B-NB	10.80	115.50	106.78
31	EF	1001	CYC	C3B-C4B-NB	10.80	115.50	106.78
31	EI	1001	CYC	C3B-C4B-NB	10.80	115.50	106.78
29	MA	401	PEB	CHC-C1D-ND	-10.79	101.41	113.95
31	C1	1001	CYC	C3B-C4B-NB	10.79	115.50	106.78
31	K1	1001	CYC	C3B-C4B-NB	10.79	115.50	106.78
31	KK	1001	CYC	C3B-C4B-NB	10.79	115.50	106.78
31	I1	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
31	H1	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
31	IK	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
31	xP	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
29	MN	401	PEB	CHC-C1D-ND	-10.78	101.43	113.95
31	CF	1001	CYC	C3B-C4B-NB	10.77	115.48	106.78
31	CI	1001	CYC	C3B-C4B-NB	10.77	115.48	106.78
31	EK	1001	CYC	C3B-C4B-NB	10.77	115.48	106.78
31	CK	1001	CYC	C3B-C4B-NB	10.75	115.46	106.78
31	KI	1001	CYC	C3B-C4B-NB	10.75	115.46	106.78
30	MA	403	PUB	C2A-C1A-NA	10.75	116.74	107.21
31	MF	1001	CYC	C3B-C4B-NB	10.72	115.44	106.78
31	MI	1001	CYC	C3B-C4B-NB	10.72	115.44	106.78
31	GF	1001	CYC	C3B-C4B-NB	10.72	115.44	106.78
31	GI	1001	CYC	C3B-C4B-NB	10.72	115.44	106.78
30	MN	403	PUB	C2A-C1A-NA	10.70	116.70	107.21
31	IF	1001	CYC	C3B-C4B-NB	10.69	115.42	106.78
31	II	1001	CYC	C3B-C4B-NB	10.69	115.42	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	yJ	303	PUB	C2A-C1A-NA	10.66	116.67	107.21
30	yL	303	PUB	C2A-C1A-NA	10.63	116.64	107.21
29	FJ	202	PEB	CHC-C1D-ND	-10.61	101.62	113.95
29	FL	202	PEB	CHC-C1D-ND	-10.61	101.62	113.95
29	IJ	203	PEB	CHC-C1D-ND	-10.60	101.63	113.95
29	IL	203	PEB	CHC-C1D-ND	-10.60	101.63	113.95
29	HJ	201	PEB	CHC-C1D-ND	-10.60	101.64	113.95
29	HL	201	PEB	CHC-C1D-ND	-10.60	101.64	113.95
29	PJ	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	jJ	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	PL	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	jL	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	JJ	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	JL	202	PEB	CHC-C1D-ND	-10.59	101.65	113.95
29	bJ	202	PEB	CHC-C1D-ND	-10.59	101.66	113.95
29	bL	202	PEB	CHC-C1D-ND	-10.59	101.66	113.95
29	BJ	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	BL	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	lJ	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	rJ	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	lL	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	rL	202	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	AJ	203	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	AL	203	PEB	CHC-C1D-ND	-10.58	101.66	113.95
29	pJ	202	PEB	CHC-C1D-ND	-10.58	101.67	113.95
29	pL	202	PEB	CHC-C1D-ND	-10.58	101.67	113.95
29	TJ	202	PEB	CHC-C1D-ND	-10.58	101.67	113.95
29	TL	202	PEB	CHC-C1D-ND	-10.58	101.67	113.95
29	RJ	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	RL	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	ZJ	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	ZL	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	fJ	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	fL	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	dJ	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	sJ	203	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	dL	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	sL	203	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	NJ	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	NL	202	PEB	CHC-C1D-ND	-10.57	101.67	113.95
29	XJ	202	PEB	CHC-C1D-ND	-10.56	101.68	113.95
29	XL	202	PEB	CHC-C1D-ND	-10.56	101.68	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	uJ	201	PEB	CHC-C1D-ND	-10.56	101.69	113.95
29	uL	201	PEB	CHC-C1D-ND	-10.56	101.69	113.95
29	hJ	202	PEB	CHC-C1D-ND	-10.55	101.69	113.95
29	hL	202	PEB	CHC-C1D-ND	-10.55	101.69	113.95
29	nJ	202	PEB	CHC-C1D-ND	-10.55	101.69	113.95
29	nL	202	PEB	CHC-C1D-ND	-10.55	101.69	113.95
31	yP	1001	CYC	C3B-C4B-NB	10.55	115.30	106.78
31	WP	1001	CYC	C3B-C4B-NB	10.54	115.29	106.78
29	WJ	201	PEB	CHC-C1D-ND	-10.52	101.73	113.95
29	WL	201	PEB	CHC-C1D-ND	-10.52	101.73	113.95
30	AB	305	PUB	C2A-C1A-NA	10.52	116.54	107.21
29	J5	201	PEB	CMB-C2B-C1B	10.52	141.26	125.06
29	J8	201	PEB	CMB-C2B-C1B	10.52	141.26	125.06
31	1P	1002	CYC	C3B-C4B-NB	10.50	115.26	106.78
30	AM	305	PUB	C2A-C1A-NA	10.48	116.50	107.21
31	YP	1000	CYC	C3B-C4B-NB	10.47	115.24	106.78
31	G7	1001	CYC	C3B-C4B-NB	10.32	115.11	106.78
31	G9	1001	CYC	C3B-C4B-NB	10.32	115.11	106.78
31	M9	1001	CYC	C3B-C4B-NB	10.31	115.11	106.78
31	I7	1001	CYC	C3B-C4B-NB	10.31	115.11	106.78
31	I9	1001	CYC	C3B-C4B-NB	10.31	115.11	106.78
31	E7	1001	CYC	C3B-C4B-NB	10.31	115.11	106.78
31	E9	1001	CYC	C3B-C4B-NB	10.31	115.11	106.78
31	M7	1001	CYC	C3B-C4B-NB	10.30	115.10	106.78
31	K7	1001	CYC	C3B-C4B-NB	10.28	115.08	106.78
31	K9	1001	CYC	C3B-C4B-NB	10.28	115.08	106.78
31	C7	1001	CYC	C3B-C4B-NB	10.24	115.05	106.78
31	C9	1001	CYC	C3B-C4B-NB	10.24	115.05	106.78
30	yJ	302	PUB	C2A-C1A-NA	10.20	116.26	107.21
30	yL	302	PUB	C2A-C1A-NA	10.20	116.26	107.21
30	AB	304	PUB	C2A-C1A-NA	10.17	116.23	107.21
30	AM	304	PUB	C2A-C1A-NA	10.15	116.22	107.21
30	xJ	305	PUB	CBA-CAA-C3A	-9.82	98.08	112.98
30	xL	305	PUB	CBA-CAA-C3A	-9.80	98.11	112.98
30	wJ	305	PUB	CBA-CAA-C3A	-9.79	98.13	112.98
30	BB	302	PUB	CAD-C3D-C4D	9.76	136.80	121.38
30	BM	302	PUB	CAD-C3D-C4D	9.76	136.80	121.38
30	wL	305	PUB	CBA-CAA-C3A	-9.76	98.18	112.98
30	yJ	302	PUB	OD-C4D-C3D	-9.56	117.67	128.04
30	yL	302	PUB	OD-C4D-C3D	-9.56	117.67	128.04
30	MG	402	PUB	CHA-C4A-NA	-9.19	103.27	113.95
30	MQ	404	PUB	CHA-C4A-NA	-9.15	103.32	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MG	405	PEB	CHB-C4B-NB	-9.00	116.34	128.83
29	MQ	407	PEB	CHB-C4B-NB	-8.98	116.37	128.83
30	MA	403	PUB	CBA-CAA-C3A	-8.78	99.67	112.98
30	MN	403	PUB	CBA-CAA-C3A	-8.78	99.67	112.98
29	F4	201	PEB	CHB-C4B-NB	-8.51	117.03	128.83
29	JD	201	PEB	CHB-C4B-NB	-8.50	117.03	128.83
29	H4	201	PEB	CHB-C4B-NB	-8.49	117.05	128.83
29	L4	201	PEB	CHB-C4B-NB	-8.48	117.06	128.83
29	J4	201	PEB	CHB-C4B-NB	-8.48	117.06	128.83
29	HD	201	PEB	CHB-C4B-NB	-8.46	117.09	128.83
29	DD	201	PEB	CHB-C4B-NB	-8.46	117.09	128.83
29	LD	201	PEB	CHB-C4B-NB	-8.46	117.10	128.83
29	B4	201	PEB	CHB-C4B-NB	-8.45	117.10	128.83
29	BD	201	PEB	CHB-C4B-NB	-8.45	117.10	128.83
29	D4	201	PEB	CHB-C4B-NB	-8.45	117.11	128.83
29	FD	201	PEB	CHB-C4B-NB	-8.44	117.12	128.83
29	b1	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	bK	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	O1	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	l1	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	OK	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	lK	202	PEB	CHB-C4B-NB	-8.37	117.22	128.83
29	d1	202	PEB	CHB-C4B-NB	-8.36	117.23	128.83
29	dK	202	PEB	CHB-C4B-NB	-8.36	117.23	128.83
29	S1	202	PEB	CHB-C4B-NB	-8.36	117.23	128.83
29	SK	202	PEB	CHB-C4B-NB	-8.36	117.23	128.83
29	Z1	203	PEB	CHB-C4B-NB	-8.35	117.24	128.83
29	ZK	203	PEB	CHB-C4B-NB	-8.35	117.24	128.83
29	h1	202	PEB	CHB-C4B-NB	-8.35	117.24	128.83
29	hK	202	PEB	CHB-C4B-NB	-8.35	117.24	128.83
29	U1	203	PEB	CHB-C4B-NB	-8.35	117.25	128.83
29	UK	203	PEB	CHB-C4B-NB	-8.35	117.25	128.83
30	AM	304	PUB	CHC-C1D-ND	-8.35	103.16	113.72
29	j1	202	PEB	CHB-C4B-NB	-8.34	117.26	128.83
29	jK	202	PEB	CHB-C4B-NB	-8.34	117.26	128.83
30	AB	304	PUB	CHC-C1D-ND	-8.33	103.18	113.72
29	f1	202	PEB	CHB-C4B-NB	-8.33	117.27	128.83
29	fK	202	PEB	CHB-C4B-NB	-8.33	117.27	128.83
29	Q1	202	PEB	CHB-C4B-NB	-8.33	117.28	128.83
29	QK	202	PEB	CHB-C4B-NB	-8.33	117.28	128.83
29	W1	202	PEB	CHB-C4B-NB	-8.32	117.29	128.83
29	WK	202	PEB	CHB-C4B-NB	-8.32	117.29	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	xP	1001	CYC	CHD-C4C-NC	8.26	135.02	125.20
30	MN	402	PUB	CHA-C4A-NA	-8.25	104.37	113.95
31	VP	1001	CYC	CHD-C4C-NC	8.25	135.01	125.20
30	MA	402	PUB	CHA-C4A-NA	-8.25	104.37	113.95
29	Q1	202	PEB	C1C-CHB-C4B	-8.19	119.02	128.81
29	U1	203	PEB	C1C-CHB-C4B	-8.19	119.02	128.81
29	QK	202	PEB	C1C-CHB-C4B	-8.19	119.02	128.81
29	UK	203	PEB	C1C-CHB-C4B	-8.19	119.02	128.81
29	W1	202	PEB	C1C-CHB-C4B	-8.18	119.04	128.81
29	WK	202	PEB	C1C-CHB-C4B	-8.18	119.04	128.81
29	f1	202	PEB	C1C-CHB-C4B	-8.18	119.04	128.81
29	fK	202	PEB	C1C-CHB-C4B	-8.18	119.04	128.81
29	d1	202	PEB	C1C-CHB-C4B	-8.17	119.05	128.81
29	dK	202	PEB	C1C-CHB-C4B	-8.17	119.05	128.81
29	j1	202	PEB	C1C-CHB-C4B	-8.17	119.05	128.81
29	jK	202	PEB	C1C-CHB-C4B	-8.17	119.05	128.81
29	S1	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	l1	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	SK	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	lK	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	b1	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	bK	202	PEB	C1C-CHB-C4B	-8.16	119.06	128.81
29	Z1	203	PEB	C1C-CHB-C4B	-8.16	119.07	128.81
29	ZK	203	PEB	C1C-CHB-C4B	-8.16	119.07	128.81
29	h1	202	PEB	C1C-CHB-C4B	-8.15	119.07	128.81
29	hK	202	PEB	C1C-CHB-C4B	-8.15	119.07	128.81
29	KD	202	PEB	CHC-C4C-C3C	-8.14	116.45	130.34
29	O1	202	PEB	C1C-CHB-C4B	-8.14	119.09	128.81
29	OK	202	PEB	C1C-CHB-C4B	-8.14	119.09	128.81
29	C4	202	PEB	CHC-C4C-C3C	-8.13	116.47	130.34
29	G4	202	PEB	CHC-C4C-C3C	-8.12	116.48	130.34
29	CD	202	PEB	CHC-C4C-C3C	-8.12	116.48	130.34
29	MD	202	PEB	CHC-C4C-C3C	-8.12	116.49	130.34
29	GD	202	PEB	CHC-C4C-C3C	-8.12	116.49	130.34
29	K4	202	PEB	CHC-C4C-C3C	-8.12	116.49	130.34
29	I4	202	PEB	CHC-C4C-C3C	-8.11	116.51	130.34
29	ED	201	PEB	CHC-C4C-C3C	-8.09	116.55	130.34
29	ID	202	PEB	CHC-C4C-C3C	-8.08	116.55	130.34
29	M4	202	PEB	CHC-C4C-C3C	-8.08	116.56	130.34
30	MN	403	PUB	CHB-C1C-NC	-8.06	117.65	128.83
29	E4	202	PEB	CHC-C4C-C3C	-8.06	116.60	130.34
30	MA	403	PUB	CHB-C1C-NC	-8.01	117.72	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	uJ	201	PEB	CHC-C4C-C3C	-7.83	116.99	130.34
29	uL	201	PEB	CHC-C4C-C3C	-7.83	116.99	130.34
29	BJ	202	PEB	CHC-C4C-C3C	-7.82	117.01	130.34
29	BL	202	PEB	CHC-C4C-C3C	-7.82	117.01	130.34
29	pJ	202	PEB	CHC-C4C-C3C	-7.81	117.01	130.34
29	pL	202	PEB	CHC-C4C-C3C	-7.81	117.01	130.34
31	VP	1001	CYC	CHA-C1A-NA	-7.81	117.99	128.83
29	IJ	203	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	PJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	lJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	IL	203	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	PL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	lL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	ZJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	ZL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	AJ	203	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	FJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	JJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	NJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	AL	203	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	FL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	JL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	NL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	fJ	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	fL	202	PEB	CHC-C4C-C3C	-7.81	117.02	130.34
29	nJ	202	PEB	CHC-C4C-C3C	-7.80	117.03	130.34
29	nL	202	PEB	CHC-C4C-C3C	-7.80	117.03	130.34
29	RJ	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	RL	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	jJ	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	jL	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	rJ	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	rL	202	PEB	CHC-C4C-C3C	-7.80	117.04	130.34
29	XJ	202	PEB	CHC-C4C-C3C	-7.79	117.05	130.34
29	XL	202	PEB	CHC-C4C-C3C	-7.79	117.05	130.34
30	MA	403	PUB	CAD-C3D-C4D	7.78	133.68	121.38
30	MN	403	PUB	CAD-C3D-C4D	7.78	133.68	121.38
29	WJ	201	PEB	CHC-C4C-C3C	-7.78	117.06	130.34
29	sJ	203	PEB	CHC-C4C-C3C	-7.78	117.06	130.34
29	WL	201	PEB	CHC-C4C-C3C	-7.78	117.06	130.34
29	sL	203	PEB	CHC-C4C-C3C	-7.78	117.06	130.34
29	bJ	202	PEB	CHC-C4C-C3C	-7.78	117.07	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bL	202	PEB	CHC-C4C-C3C	-7.78	117.07	130.34
29	HJ	201	PEB	CHC-C4C-C3C	-7.78	117.07	130.34
29	HL	201	PEB	CHC-C4C-C3C	-7.78	117.07	130.34
29	dJ	202	PEB	CHC-C4C-C3C	-7.78	117.07	130.34
29	dL	202	PEB	CHC-C4C-C3C	-7.78	117.07	130.34
30	wL	304	PUB	CHC-C1D-ND	-7.78	103.88	113.72
29	TJ	202	PEB	CHC-C4C-C3C	-7.77	117.08	130.34
29	TL	202	PEB	CHC-C4C-C3C	-7.77	117.08	130.34
29	hJ	202	PEB	CHC-C4C-C3C	-7.77	117.09	130.34
29	hL	202	PEB	CHC-C4C-C3C	-7.77	117.09	130.34
31	xP	1001	CYC	CHA-C1A-NA	-7.76	118.07	128.83
30	wJ	304	PUB	CHC-C1D-ND	-7.74	103.93	113.72
30	xL	304	PUB	CHC-C1D-ND	-7.73	103.95	113.72
30	xJ	304	PUB	CHC-C1D-ND	-7.71	103.96	113.72
30	xJ	305	PUB	CAD-C3D-C4D	7.70	133.55	121.38
30	wJ	305	PUB	CAD-C3D-C4D	7.69	133.53	121.38
30	xL	305	PUB	CAD-C3D-C4D	7.69	133.52	121.38
30	wL	305	PUB	CAD-C3D-C4D	7.68	133.50	121.38
30	MN	403	PUB	CHC-C1D-ND	-7.66	104.04	113.72
30	MA	403	PUB	CHC-C1D-ND	-7.63	104.07	113.72
30	AB	304	PUB	CHB-C1C-NC	-7.52	118.40	128.83
30	AM	304	PUB	CHB-C1C-NC	-7.52	118.40	128.83
29	SR	201	PEB	CHB-C4B-NB	-7.46	118.47	128.83
29	xL	301	PEB	CHB-C4B-NB	-7.46	118.48	128.83
29	xJ	301	PEB	CHB-C4B-NB	-7.44	118.51	128.83
29	wL	301	PEB	CHB-C4B-NB	-7.43	118.52	128.83
29	wJ	301	PEB	CHB-C4B-NB	-7.42	118.54	128.83
30	AM	304	PUB	C4B-CHB-C1C	-7.35	120.03	128.81
30	MG	403	PUB	CHC-C1D-ND	-7.34	104.43	113.72
30	MQ	405	PUB	CHC-C1D-ND	-7.34	104.44	113.72
30	AB	304	PUB	C4B-CHB-C1C	-7.33	120.05	128.81
31	sP	1001	CYC	CHB-C4A-NA	-7.33	109.59	124.93
29	BB	301	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	BM	301	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	dF	201	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	dI	201	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	UF	201	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	UI	201	PEB	CHC-C1D-ND	-7.33	105.44	113.95
29	VF	202	PEB	CHC-C1D-ND	-7.31	105.45	113.95
29	VI	202	PEB	CHC-C1D-ND	-7.31	105.45	113.95
31	fP	1001	CYC	CHB-C4A-NA	-7.31	109.63	124.93
31	hP	1001	CYC	CHB-C4A-NA	-7.31	109.63	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	nP	1001	CYC	CHB-C4A-NA	-7.31	109.63	124.93
29	gF	202	PEB	CHC-C1D-ND	-7.31	105.46	113.95
29	gI	202	PEB	CHC-C1D-ND	-7.31	105.46	113.95
31	QP	1001	CYC	CHB-C4A-NA	-7.30	109.65	124.93
31	oP	1001	CYC	CHB-C4A-NA	-7.30	109.66	124.93
29	kF	202	PEB	CHC-C1D-ND	-7.30	105.47	113.95
29	kI	202	PEB	CHC-C1D-ND	-7.30	105.47	113.95
31	HP	1001	CYC	CHB-C4A-NA	-7.30	109.66	124.93
31	1P	1001	CYC	CHB-C4A-NA	-7.30	109.66	124.93
31	DP	1001	CYC	CHB-C4A-NA	-7.30	109.67	124.93
31	IP	1001	CYC	CHB-C4A-NA	-7.29	109.67	124.93
31	XP	1001	CYC	CHB-C4A-NA	-7.29	109.67	124.93
31	MP	1001	CYC	CHB-C4A-NA	-7.29	109.67	124.93
31	SP	1001	CYC	CHB-C4A-NA	-7.29	109.68	124.93
31	jP	1001	CYC	CHB-C4A-NA	-7.29	109.68	124.93
31	BP	1001	CYC	CHB-C4A-NA	-7.29	109.68	124.93
31	wP	1001	CYC	CHB-C4A-NA	-7.29	109.68	124.93
29	aF	202	PEB	CHC-C1D-ND	-7.29	105.48	113.95
29	aI	202	PEB	CHC-C1D-ND	-7.29	105.48	113.95
31	kP	1001	CYC	CHB-C4A-NA	-7.29	109.69	124.93
31	FP	1001	CYC	CHB-C4A-NA	-7.29	109.69	124.93
31	qP	1001	CYC	CHB-C4A-NA	-7.28	109.69	124.93
29	P1	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	g1	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	OF	203	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	PF	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	OI	203	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	PI	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	PK	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
29	gK	202	PEB	CHC-C1D-ND	-7.28	105.49	113.95
31	UP	1001	CYC	CHB-C4A-NA	-7.28	109.70	124.93
31	uP	1001	CYC	CHB-C4A-NA	-7.28	109.71	124.93
29	R1	202	PEB	CHC-C1D-ND	-7.28	105.50	113.95
29	RK	202	PEB	CHC-C1D-ND	-7.28	105.50	113.95
29	eF	202	PEB	CHC-C1D-ND	-7.28	105.50	113.95
29	eI	202	PEB	CHC-C1D-ND	-7.28	105.50	113.95
31	OP	1001	CYC	CHB-C4A-NA	-7.28	109.71	124.93
29	i1	202	PEB	CHC-C1D-ND	-7.27	105.50	113.95
29	j1	203	PEB	CHC-C1D-ND	-7.27	105.50	113.95
29	iK	202	PEB	CHC-C1D-ND	-7.27	105.50	113.95
29	jK	203	PEB	CHC-C1D-ND	-7.27	105.50	113.95
29	Z1	201	PEB	CHC-C1D-ND	-7.27	105.50	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZK	201	PEB	CHC-C1D-ND	-7.27	105.50	113.95
29	iF	202	PEB	CHC-C1D-ND	-7.27	105.51	113.95
29	iI	202	PEB	CHC-C1D-ND	-7.27	105.51	113.95
29	mF	202	PEB	CHC-C1D-ND	-7.26	105.51	113.95
29	mI	202	PEB	CHC-C1D-ND	-7.26	105.51	113.95
29	k1	202	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	kK	202	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	U1	201	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	UK	201	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	YF	202	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	YI	202	PEB	CHC-C1D-ND	-7.26	105.52	113.95
29	a1	202	PEB	CHC-C1D-ND	-7.25	105.53	113.95
29	aK	202	PEB	CHC-C1D-ND	-7.25	105.53	113.95
29	B4	201	PEB	CHC-C4C-C3C	-7.25	117.97	130.34
29	V1	202	PEB	CHC-C1D-ND	-7.25	105.53	113.95
29	VK	202	PEB	CHC-C1D-ND	-7.25	105.53	113.95
29	e1	202	PEB	CHC-C1D-ND	-7.24	105.54	113.95
29	eK	202	PEB	CHC-C1D-ND	-7.24	105.54	113.95
29	BD	201	PEB	CHC-C4C-C3C	-7.23	118.01	130.34
29	F4	201	PEB	CHC-C4C-C3C	-7.23	118.01	130.34
29	JD	201	PEB	CHC-C4C-C3C	-7.23	118.02	130.34
29	LD	201	PEB	CHC-C4C-C3C	-7.22	118.02	130.34
29	H4	201	PEB	CHC-C4C-C3C	-7.22	118.02	130.34
29	FD	201	PEB	CHC-C4C-C3C	-7.22	118.02	130.34
30	MN	402	PUB	CHB-C1C-NC	-7.22	118.81	128.83
29	L4	201	PEB	CHC-C4C-C3C	-7.22	118.03	130.34
29	c1	202	PEB	CHC-C1D-ND	-7.21	105.57	113.95
29	cK	202	PEB	CHC-C1D-ND	-7.21	105.57	113.95
29	DD	201	PEB	CHC-C4C-C3C	-7.21	118.04	130.34
29	HD	201	PEB	CHC-C4C-C3C	-7.20	118.06	130.34
29	D4	201	PEB	CHC-C4C-C3C	-7.20	118.07	130.34
30	MA	402	PUB	CHB-C1C-NC	-7.18	118.86	128.83
29	J4	201	PEB	CHC-C4C-C3C	-7.18	118.09	130.34
30	AB	304	PUB	CAD-C3D-C4D	7.18	132.72	121.38
31	xP	1001	CYC	CHB-C4A-NA	-7.17	109.93	124.93
31	VP	1001	CYC	CHB-C4A-NA	-7.17	109.93	124.93
29	SR	201	PEB	C1C-CHB-C4B	-7.16	120.25	128.81
30	AM	304	PUB	CAD-C3D-C4D	7.15	132.68	121.38
30	MG	403	PUB	CAD-C3D-C4D	7.13	132.65	121.38
29	MN	401	PEB	C1C-CHB-C4B	-7.13	120.29	128.81
29	MG	401	PEB	C1C-CHB-C4B	-7.13	120.29	128.81
29	MA	401	PEB	C1C-CHB-C4B	-7.13	120.30	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N2	201	PEB	CHB-C4B-NB	-7.11	118.96	128.83
30	MQ	405	PUB	CAD-C3D-C4D	7.11	132.61	121.38
29	I4	203	PEB	CHB-C4B-NB	-7.11	118.97	128.83
29	R2	201	PEB	CHB-C4B-NB	-7.08	119.00	128.83
29	NR	201	PEB	CHB-C4B-NB	-7.08	119.01	128.83
29	MN	404	PEB	CHB-C4B-NB	-7.07	119.02	128.83
29	TR	201	PEB	CHB-C4B-NB	-7.07	119.02	128.83
29	MQ	403	PEB	C1C-CHB-C4B	-7.07	120.36	128.81
29	T2	201	PEB	CHB-C4B-NB	-7.07	119.03	128.83
29	e2	402	PEB	CHB-C4B-NB	-7.06	119.03	128.83
31	F9	1001	CYC	CHB-C4A-NA	-7.06	110.17	124.93
31	F7	1001	CYC	CHB-C4A-NA	-7.05	110.17	124.93
31	J9	1001	CYC	CHB-C4A-NA	-7.05	110.18	124.93
31	L7	1001	CYC	CHB-C4A-NA	-7.05	110.19	124.93
31	N7	1001	CYC	CHB-C4A-NA	-7.05	110.19	124.93
31	N9	1001	CYC	CHB-C4A-NA	-7.05	110.19	124.93
29	vJ	201	PEB	CHA-C4A-NA	7.05	133.58	125.20
29	vL	201	PEB	CHA-C4A-NA	7.05	133.58	125.20
30	A1	305	PUB	CHB-C1C-NC	-7.04	119.06	128.83
30	AK	305	PUB	CHB-C1C-NC	-7.04	119.06	128.83
31	L9	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
31	J7	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
31	D7	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
31	D9	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
31	H7	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
31	H9	1001	CYC	CHB-C4A-NA	-7.04	110.20	124.93
29	RR	201	PEB	CHB-C4B-NB	-7.04	119.06	128.83
29	MA	404	PEB	CHB-C4B-NB	-7.03	119.08	128.83
29	LB	202	PEB	CHC-C4C-C3C	-7.03	118.35	130.34
29	LM	202	PEB	CHC-C4C-C3C	-7.03	118.35	130.34
29	V2	201	PEB	CHB-C4B-NB	-7.03	119.08	128.83
29	aB	203	PEB	CHC-C4C-C3C	-7.03	118.35	130.34
29	aM	203	PEB	CHC-C4C-C3C	-7.03	118.35	130.34
29	mB	202	PEB	CHC-C4C-C3C	-7.03	118.36	130.34
29	mM	202	PEB	CHC-C4C-C3C	-7.03	118.36	130.34
29	VR	201	PEB	CHB-C4B-NB	-7.02	119.09	128.83
29	JB	202	PEB	CHC-C4C-C3C	-7.02	118.36	130.34
29	JM	202	PEB	CHC-C4C-C3C	-7.02	118.36	130.34
29	HB	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34
29	HM	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34
29	iB	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34
29	iM	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DB	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34
29	DM	202	PEB	CHC-C4C-C3C	-7.02	118.37	130.34
29	FB	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	kB	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	FM	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	kM	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	VB	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	VM	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	cB	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	cM	202	PEB	CHC-C4C-C3C	-7.01	118.38	130.34
29	RB	202	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	TB	202	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	YB	201	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	RM	202	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	TM	202	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	YM	201	PEB	CHC-C4C-C3C	-7.01	118.39	130.34
29	QB	202	PEB	CHC-C4C-C3C	-7.00	118.39	130.34
29	QM	202	PEB	CHC-C4C-C3C	-7.00	118.39	130.34
29	TJ	201	PEB	CHA-C4A-NA	7.00	133.53	125.20
29	TL	201	PEB	CHA-C4A-NA	7.00	133.53	125.20
29	XR	201	PEB	CHB-C4B-NB	-7.00	119.12	128.83
29	nJ	201	PEB	CHA-C4A-NA	7.00	133.52	125.20
29	nL	201	PEB	CHA-C4A-NA	7.00	133.52	125.20
29	XJ	201	PEB	CHA-C4A-NA	6.99	133.52	125.20
29	XL	201	PEB	CHA-C4A-NA	6.99	133.52	125.20
29	KB	203	PEB	CHC-C4C-C3C	-6.99	118.41	130.34
29	KM	203	PEB	CHC-C4C-C3C	-6.99	118.41	130.34
29	FJ	201	PEB	CHA-C4A-NA	6.99	133.52	125.20
29	FL	201	PEB	CHA-C4A-NA	6.99	133.52	125.20
29	tJ	201	PEB	CHA-C4A-NA	6.99	133.51	125.20
29	tL	201	PEB	CHA-C4A-NA	6.99	133.51	125.20
29	PJ	201	PEB	CHA-C4A-NA	6.98	133.51	125.20
29	hJ	201	PEB	CHA-C4A-NA	6.98	133.51	125.20
29	PL	201	PEB	CHA-C4A-NA	6.98	133.51	125.20
29	hL	201	PEB	CHA-C4A-NA	6.98	133.51	125.20
29	gB	202	PEB	CHC-C4C-C3C	-6.98	118.43	130.34
29	gM	202	PEB	CHC-C4C-C3C	-6.98	118.43	130.34
29	ZB	202	PEB	CHC-C4C-C3C	-6.98	118.44	130.34
29	ZM	202	PEB	CHC-C4C-C3C	-6.98	118.44	130.34
29	IJ	201	PEB	CHA-C4A-NA	6.97	133.50	125.20
29	IL	201	PEB	CHA-C4A-NA	6.97	133.50	125.20
29	bJ	201	PEB	CHA-C4A-NA	6.97	133.49	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bL	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	ZJ	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	ZL	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	JJ	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	JL	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	rJ	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	rL	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	LJ	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	LL	201	PEB	CHA-C4A-NA	6.97	133.49	125.20
29	NJ	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	NL	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	fJ	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	fL	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	MR	202	PEB	CHB-C4B-NB	-6.96	119.17	128.83
29	RJ	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	RL	201	PEB	CHA-C4A-NA	6.96	133.48	125.20
29	VJ	201	PEB	CHA-C4A-NA	6.96	133.47	125.20
29	VL	201	PEB	CHA-C4A-NA	6.96	133.47	125.20
29	OB	202	PEB	CHB-C4B-NB	-6.95	119.18	128.83
29	OM	202	PEB	CHB-C4B-NB	-6.95	119.18	128.83
29	DJ	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	DL	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	dJ	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	jJ	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	dL	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	jL	201	PEB	CHA-C4A-NA	6.95	133.47	125.20
29	IB	202	PEB	CHB-C4B-NB	-6.95	119.19	128.83
29	IM	202	PEB	CHB-C4B-NB	-6.95	119.19	128.83
29	pJ	201	PEB	CHA-C4A-NA	6.94	133.46	125.20
29	pL	201	PEB	CHA-C4A-NA	6.94	133.46	125.20
29	jB	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	jM	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	SB	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	SM	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	CB	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	CM	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	BJ	201	PEB	CHA-C4A-NA	6.93	133.45	125.20
29	BL	201	PEB	CHA-C4A-NA	6.93	133.45	125.20
29	hB	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	hM	202	PEB	CHB-C4B-NB	-6.93	119.21	128.83
29	YB	203	PEB	CHB-C4B-NB	-6.93	119.22	128.83
29	YM	203	PEB	CHB-C4B-NB	-6.93	119.22	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UB	202	PEB	CHB-C4B-NB	-6.93	119.22	128.83
29	MQ	401	PEB	CHB-C4B-NB	-6.93	119.22	128.83
29	QB	204	PEB	CHB-C4B-NB	-6.93	119.22	128.83
29	QM	204	PEB	CHB-C4B-NB	-6.93	119.22	128.83
29	aB	202	PEB	CHB-C4B-NB	-6.92	119.22	128.83
29	aM	202	PEB	CHB-C4B-NB	-6.92	119.22	128.83
29	WB	202	PEB	CHB-C4B-NB	-6.92	119.23	128.83
29	WM	202	PEB	CHB-C4B-NB	-6.92	119.23	128.83
29	MA	404	PEB	C1C-CHB-C4B	-6.92	120.54	128.81
29	lB	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	lM	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	xL	303	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	MB	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	MM	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	KB	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	KM	202	PEB	CHB-C4B-NB	-6.91	119.24	128.83
29	MN	404	PEB	C1C-CHB-C4B	-6.91	120.56	128.81
29	fB	202	PEB	CHB-C4B-NB	-6.90	119.25	128.83
29	fM	202	PEB	CHB-C4B-NB	-6.90	119.25	128.83
29	GB	202	PEB	CHB-C4B-NB	-6.90	119.25	128.83
29	GM	202	PEB	CHB-C4B-NB	-6.90	119.25	128.83
29	wJ	303	PEB	CHB-C4B-NB	-6.90	119.25	128.83
29	EB	202	PEB	CHB-C4B-NB	-6.90	119.26	128.83
29	EM	202	PEB	CHB-C4B-NB	-6.90	119.26	128.83
29	dB	202	PEB	CHB-C4B-NB	-6.90	119.26	128.83
29	dM	202	PEB	CHB-C4B-NB	-6.90	119.26	128.83
29	xJ	303	PEB	CHB-C4B-NB	-6.89	119.27	128.83
29	wL	303	PEB	CHB-C4B-NB	-6.86	119.31	128.83
29	eB	202	PEB	CHB-C4B-NB	-6.77	119.43	128.83
29	eM	202	PEB	CHB-C4B-NB	-6.77	119.43	128.83
29	TB	203	PEB	CHB-C4B-NB	-6.77	119.44	128.83
29	TM	203	PEB	CHB-C4B-NB	-6.77	119.44	128.83
31	KF	1001	CYC	CAB-C3B-C4B	6.77	132.07	121.38
29	ZB	203	PEB	CHB-C4B-NB	-6.77	119.44	128.83
29	ZM	203	PEB	CHB-C4B-NB	-6.77	119.44	128.83
31	KI	1001	CYC	CAB-C3B-C4B	6.76	132.05	121.38
31	EF	1001	CYC	CAB-C3B-C4B	6.76	132.05	121.38
31	EI	1001	CYC	CAB-C3B-C4B	6.76	132.05	121.38
31	GF	1001	CYC	CAB-C3B-C4B	6.76	132.05	121.38
31	GI	1001	CYC	CAB-C3B-C4B	6.76	132.05	121.38
29	XB	202	PEB	CHB-C4B-NB	-6.75	119.46	128.83
29	XM	202	PEB	CHB-C4B-NB	-6.75	119.46	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NB	202	PEB	CHB-C4B-NB	-6.75	119.46	128.83
29	NM	202	PEB	CHB-C4B-NB	-6.75	119.46	128.83
29	DB	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
29	JB	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
29	DM	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
29	JM	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
31	CF	1001	CYC	CAB-C3B-C4B	6.75	132.03	121.38
31	CI	1001	CYC	CAB-C3B-C4B	6.75	132.03	121.38
29	gB	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
29	gM	203	PEB	CHB-C4B-NB	-6.75	119.47	128.83
29	PB	202	PEB	CHB-C4B-NB	-6.74	119.47	128.83
29	PM	202	PEB	CHB-C4B-NB	-6.74	119.47	128.83
29	cB	203	PEB	CHB-C4B-NB	-6.74	119.47	128.83
29	cM	203	PEB	CHB-C4B-NB	-6.74	119.47	128.83
29	iB	203	PEB	CHB-C4B-NB	-6.74	119.48	128.83
29	iM	203	PEB	CHB-C4B-NB	-6.74	119.48	128.83
31	IF	1001	CYC	CAB-C3B-C4B	6.74	132.02	121.38
31	MF	1001	CYC	CAB-C3B-C4B	6.74	132.02	121.38
31	II	1001	CYC	CAB-C3B-C4B	6.74	132.02	121.38
31	MI	1001	CYC	CAB-C3B-C4B	6.74	132.02	121.38
29	HB	203	PEB	CHB-C4B-NB	-6.74	119.48	128.83
29	HM	203	PEB	CHB-C4B-NB	-6.74	119.48	128.83
31	yP	1001	CYC	CHD-C4C-NC	6.73	133.21	125.20
29	LB	203	PEB	CHB-C4B-NB	-6.72	119.50	128.83
29	LM	203	PEB	CHB-C4B-NB	-6.72	119.50	128.83
29	VB	203	PEB	CHB-C4B-NB	-6.72	119.50	128.83
29	VM	203	PEB	CHB-C4B-NB	-6.72	119.50	128.83
29	RB	203	PEB	CHB-C4B-NB	-6.72	119.51	128.83
29	RM	203	PEB	CHB-C4B-NB	-6.72	119.51	128.83
31	WP	1001	CYC	CHD-C4C-NC	6.72	133.19	125.20
29	M4	203	PEB	CHB-C4B-NB	-6.72	119.51	128.83
29	kB	203	PEB	CHB-C4B-NB	-6.71	119.51	128.83
29	kM	203	PEB	CHB-C4B-NB	-6.71	119.51	128.83
29	MN	405	PEB	C1C-CHB-C4B	-6.71	120.79	128.81
29	MA	405	PEB	C1C-CHB-C4B	-6.71	120.80	128.81
29	FB	203	PEB	CHB-C4B-NB	-6.71	119.53	128.83
29	FM	203	PEB	CHB-C4B-NB	-6.71	119.53	128.83
29	mB	203	PEB	CHB-C4B-NB	-6.70	119.54	128.83
29	mM	203	PEB	CHB-C4B-NB	-6.70	119.54	128.83
29	V2	202	PEB	CHC-C4C-C3C	-6.69	118.92	130.34
29	BC	202	PEB	CHC-C4C-C3C	-6.68	118.95	130.34
29	BE	202	PEB	CHC-C4C-C3C	-6.68	118.95	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VR	202	PEB	CHC-C4C-C3C	-6.68	118.95	130.34
29	AC	203	PEB	CHC-C4C-C3C	-6.67	118.96	130.34
29	AE	203	PEB	CHC-C4C-C3C	-6.67	118.96	130.34
29	NR	202	PEB	CHC-C4C-C3C	-6.67	118.96	130.34
29	HC	202	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	HE	202	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	FC	202	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	FE	202	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	P2	201	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	PR	201	PEB	CHC-C4C-C3C	-6.67	118.97	130.34
29	LC	202	PEB	CHC-C4C-C3C	-6.66	118.98	130.34
29	LE	202	PEB	CHC-C4C-C3C	-6.66	118.98	130.34
29	XR	202	PEB	CHC-C4C-C3C	-6.66	118.98	130.34
29	N2	202	PEB	CHC-C4C-C3C	-6.66	118.99	130.34
31	PP	1001	CYC	CHB-C4A-NA	-6.65	111.01	124.93
29	VB	202	PEB	C1C-CHB-C4B	6.65	136.75	128.81
29	VM	202	PEB	C1C-CHB-C4B	6.65	136.75	128.81
31	cP	1001	CYC	CHB-C4A-NA	-6.65	111.03	124.93
31	vP	1001	CYC	CHB-C4A-NA	-6.65	111.03	124.93
29	iB	202	PEB	C1C-CHB-C4B	6.64	136.75	128.81
29	iM	202	PEB	C1C-CHB-C4B	6.64	136.75	128.81
31	GP	1001	CYC	CHB-C4A-NA	-6.64	111.04	124.93
29	RR	202	PEB	CHC-C4C-C3C	-6.64	119.01	130.34
31	AP	1001	CYC	CHB-C4A-NA	-6.64	111.05	124.93
31	JP	1001	CYC	CHB-C4A-NA	-6.64	111.05	124.93
31	mP	1001	CYC	CHB-C4A-NA	-6.64	111.05	124.93
29	TR	202	PEB	CHC-C4C-C3C	-6.64	119.02	130.34
31	CP	1001	CYC	CHB-C4A-NA	-6.63	111.05	124.93
29	T2	202	PEB	CHC-C4C-C3C	-6.63	119.02	130.34
29	X2	201	PEB	CHC-C4C-C3C	-6.63	119.02	130.34
31	pP	1001	CYC	CHB-C4A-NA	-6.63	111.06	124.93
29	KC	201	PEB	CHC-C4C-C3C	-6.63	119.03	130.34
29	KE	201	PEB	CHC-C4C-C3C	-6.63	119.03	130.34
31	tP	1001	CYC	CHB-C4A-NA	-6.63	111.06	124.93
31	eP	1001	CYC	CHB-C4A-NA	-6.63	111.06	124.93
29	aB	203	PEB	C1C-CHB-C4B	6.63	136.73	128.81
29	aM	203	PEB	C1C-CHB-C4B	6.63	136.73	128.81
31	TP	1001	CYC	CHB-C4A-NA	-6.63	111.07	124.93
31	KP	1001	CYC	CHB-C4A-NA	-6.63	111.07	124.93
31	lP	1001	CYC	CHB-C4A-NA	-6.63	111.07	124.93
29	R2	202	PEB	CHC-C4C-C3C	-6.62	119.04	130.34
29	HB	202	PEB	C1C-CHB-C4B	6.62	136.72	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HM	202	PEB	C1C-CHB-C4B	6.62	136.72	128.81
31	EP	1001	CYC	CHB-C4A-NA	-6.62	111.08	124.93
29	RB	202	PEB	C1C-CHB-C4B	6.62	136.72	128.81
29	RM	202	PEB	C1C-CHB-C4B	6.62	136.72	128.81
31	RP	1001	CYC	CHB-C4A-NA	-6.62	111.08	124.93
31	rP	1001	CYC	CHB-C4A-NA	-6.62	111.08	124.93
31	NP	1001	CYC	CHB-C4A-NA	-6.62	111.09	124.93
31	lP	1002	CYC	CHB-C4A-NA	-6.62	111.09	124.93
31	gP	1001	CYC	CHB-C4A-NA	-6.61	111.09	124.93
31	YP	1000	CYC	CHB-C4A-NA	-6.61	111.11	124.93
29	ZB	202	PEB	C1C-CHB-C4B	6.61	136.70	128.81
29	ZM	202	PEB	C1C-CHB-C4B	6.61	136.70	128.81
31	iP	1001	CYC	CHB-C4A-NA	-6.61	111.11	124.93
29	kB	202	PEB	C1C-CHB-C4B	6.60	136.69	128.81
29	kM	202	PEB	C1C-CHB-C4B	6.60	136.69	128.81
29	FB	202	PEB	C1C-CHB-C4B	6.60	136.69	128.81
29	FM	202	PEB	C1C-CHB-C4B	6.60	136.69	128.81
29	LB	202	PEB	C1C-CHB-C4B	6.59	136.69	128.81
29	LM	202	PEB	C1C-CHB-C4B	6.59	136.69	128.81
29	gB	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	gM	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	mB	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	mM	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	YB	201	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	YM	201	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	cB	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	cM	202	PEB	C1C-CHB-C4B	6.59	136.68	128.81
29	JB	202	PEB	C1C-CHB-C4B	6.58	136.68	128.81
29	JM	202	PEB	C1C-CHB-C4B	6.58	136.68	128.81
29	DB	202	PEB	C1C-CHB-C4B	6.58	136.67	128.81
29	QB	202	PEB	C1C-CHB-C4B	6.58	136.67	128.81
29	DM	202	PEB	C1C-CHB-C4B	6.58	136.67	128.81
29	QM	202	PEB	C1C-CHB-C4B	6.58	136.67	128.81
29	TB	202	PEB	C1C-CHB-C4B	6.57	136.66	128.81
29	TM	202	PEB	C1C-CHB-C4B	6.57	136.66	128.81
30	MG	402	PUB	CMB-C2B-C3B	6.57	137.33	124.94
29	I8	202	PEB	CHC-C1D-ND	-6.57	106.32	113.95
30	MQ	404	PUB	CMB-C2B-C3B	6.57	137.32	124.94
30	yL	303	PUB	CHB-C1C-NC	-6.56	119.72	128.83
29	KB	203	PEB	C1C-CHB-C4B	6.56	136.65	128.81
29	KM	203	PEB	C1C-CHB-C4B	6.56	136.65	128.81
29	C5	202	PEB	CHC-C1D-ND	-6.56	106.33	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	C8	202	PEB	CHC-C1D-ND	-6.56	106.33	113.95
30	yJ	303	PUB	CHB-C1C-NC	-6.56	119.73	128.83
30	AF	303	PUB	CAD-C3D-C4D	6.55	131.72	121.38
30	AI	303	PUB	CAD-C3D-C4D	6.55	131.72	121.38
29	I5	202	PEB	CHC-C1D-ND	-6.54	106.35	113.95
30	MG	403	PUB	CAC-C2C-C1C	6.52	136.55	125.01
29	K5	202	PEB	CHC-C1D-ND	-6.52	106.38	113.95
30	MQ	405	PUB	CAC-C2C-C1C	6.51	136.53	125.01
29	A5	202	PEB	CHC-C1D-ND	-6.51	106.39	113.95
29	A8	202	PEB	CHC-C1D-ND	-6.51	106.39	113.95
29	MR	201	PEB	CHC-C4C-C3C	-6.50	119.25	130.34
29	O2	201	PEB	CHB-C4B-NB	-6.49	119.82	128.83
29	K8	202	PEB	CHC-C1D-ND	-6.49	106.41	113.95
29	M2	201	PEB	CHC-C4C-C3C	-6.49	119.27	130.34
29	OR	201	PEB	CHB-C4B-NB	-6.48	119.84	128.83
29	O7	201	PEB	CMB-C2B-C1B	6.48	135.04	125.06
29	O9	201	PEB	CMB-C2B-C1B	6.48	135.04	125.06
29	Q2	201	PEB	CHC-C4C-C3C	-6.48	119.29	130.34
29	W2	201	PEB	CHC-C4C-C3C	-6.47	119.30	130.34
29	WR	201	PEB	CHC-C4C-C3C	-6.47	119.30	130.34
29	UR	201	PEB	CHB-C4B-NB	-6.47	119.85	128.83
29	M2	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	MR	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	Q2	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	AC	203	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	KC	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	AE	203	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	KE	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	WR	201	PEB	CHB-C4B-NB	-6.47	119.86	128.83
29	OR	201	PEB	CHC-C4C-C3C	-6.47	119.31	130.34
29	HC	202	PEB	CHB-C4B-NB	-6.46	119.86	128.83
29	HE	202	PEB	CHB-C4B-NB	-6.46	119.86	128.83
29	U7	201	PEB	CMB-C2B-C1B	6.46	135.01	125.06
29	U9	201	PEB	CMB-C2B-C1B	6.46	135.01	125.06
29	d7	201	PEB	CMB-C2B-C1B	6.46	135.01	125.06
29	d9	201	PEB	CMB-C2B-C1B	6.46	135.01	125.06
29	FC	202	PEB	CHB-C4B-NB	-6.46	119.87	128.83
29	FE	202	PEB	CHB-C4B-NB	-6.46	119.87	128.83
29	W7	201	PEB	CMB-C2B-C1B	6.45	135.00	125.06
29	W9	201	PEB	CMB-C2B-C1B	6.45	135.00	125.06
29	O2	201	PEB	CHC-C4C-C3C	-6.45	119.33	130.34
29	U2	201	PEB	CHB-C4B-NB	-6.45	119.88	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QR	201	PEB	CHC-C4C-C3C	-6.45	119.33	130.34
29	UR	201	PEB	CHC-C4C-C3C	-6.45	119.33	130.34
29	BC	202	PEB	CHB-C4B-NB	-6.45	119.88	128.83
29	LC	202	PEB	CHB-C4B-NB	-6.45	119.88	128.83
29	BE	202	PEB	CHB-C4B-NB	-6.45	119.88	128.83
29	LE	202	PEB	CHB-C4B-NB	-6.45	119.88	128.83
29	U2	201	PEB	CHC-C4C-C3C	-6.45	119.34	130.34
29	W2	201	PEB	CHB-C4B-NB	-6.45	119.89	128.83
29	QR	201	PEB	CHB-C4B-NB	-6.44	119.89	128.83
29	f7	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	f9	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	j7	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	j9	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	Q7	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	Z7	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	Q9	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	Z9	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	S7	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	S9	201	PEB	CMB-C2B-C1B	6.44	134.99	125.06
29	b7	201	PEB	CMB-C2B-C1B	6.44	134.97	125.06
29	l7	201	PEB	CMB-C2B-C1B	6.44	134.97	125.06
29	b9	201	PEB	CMB-C2B-C1B	6.44	134.97	125.06
29	l9	201	PEB	CMB-C2B-C1B	6.44	134.97	125.06
29	h7	201	PEB	CMB-C2B-C1B	6.43	134.97	125.06
29	h9	201	PEB	CMB-C2B-C1B	6.43	134.97	125.06
29	MQ	403	PEB	CHB-C4B-NB	-6.43	119.91	128.83
30	AF	302	PUB	CAD-C3D-C4D	6.43	131.53	121.38
30	AI	302	PUB	CAD-C3D-C4D	6.43	131.53	121.38
29	A9	304	PEB	CHB-C4B-NB	-6.42	119.92	128.83
30	A7	302	PUB	CAD-C3D-C4D	6.42	131.51	121.38
30	A9	302	PUB	CAD-C3D-C4D	6.42	131.51	121.38
29	E4	203	PEB	OA-C1A-C2A	-6.41	121.07	126.17
30	A1	305	PUB	CAD-C3D-C4D	6.41	131.50	121.38
30	AK	305	PUB	CAD-C3D-C4D	6.41	131.50	121.38
30	A1	304	PUB	CAD-C3D-C4D	6.41	131.50	121.38
30	AK	304	PUB	CAD-C3D-C4D	6.41	131.50	121.38
29	E4	203	PEB	CHC-C1D-ND	-6.40	106.51	113.95
29	MD	203	PEB	CHC-C1D-ND	-6.39	106.52	113.95
29	A7	304	PEB	CHB-C4B-NB	-6.39	119.97	128.83
29	K4	203	PEB	CHC-C1D-ND	-6.38	106.53	113.95
29	MD	203	PEB	OA-C1A-C2A	-6.38	121.10	126.17
29	GD	203	PEB	CHC-C1D-ND	-6.38	106.54	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KD	203	PEB	CHC-C1D-ND	-6.37	106.55	113.95
29	MG	401	PEB	CHB-C4B-NB	-6.37	119.99	128.83
29	ED	202	PEB	CHC-C1D-ND	-6.36	106.56	113.95
31	K9	1001	CYC	CAB-C3B-C4B	6.36	131.42	121.38
30	AF	303	PUB	OD-C4D-C3D	-6.35	121.15	128.04
30	AI	303	PUB	OD-C4D-C3D	-6.35	121.15	128.04
29	G4	203	PEB	CHC-C1D-ND	-6.34	106.58	113.95
29	CD	203	PEB	CHC-C1D-ND	-6.34	106.58	113.95
31	I7	1001	CYC	CAB-C3B-C4B	6.34	131.39	121.38
31	I9	1001	CYC	CAB-C3B-C4B	6.34	131.39	121.38
29	KD	203	PEB	OA-C1A-C2A	-6.34	121.13	126.17
30	A7	303	PUB	CAD-C3D-C4D	6.34	131.39	121.38
30	A9	303	PUB	CAD-C3D-C4D	6.34	131.39	121.38
31	G9	1001	CYC	CAB-C3B-C4B	6.34	131.39	121.38
29	C4	203	PEB	CHC-C1D-ND	-6.34	106.59	113.95
29	MA	405	PEB	CHB-C4B-NB	-6.33	120.04	128.83
29	GD	203	PEB	OA-C1A-C2A	-6.33	121.14	126.17
31	G7	1001	CYC	CAB-C3B-C4B	6.33	131.37	121.38
29	MN	401	PEB	CHB-C4B-NB	-6.32	120.06	128.83
31	K7	1001	CYC	CAB-C3B-C4B	6.32	131.36	121.38
29	ID	203	PEB	CHC-C1D-ND	-6.32	106.61	113.95
31	E7	1001	CYC	CAB-C3B-C4B	6.31	131.35	121.38
31	E9	1001	CYC	CAB-C3B-C4B	6.31	131.35	121.38
30	AB	305	PUB	OD-C4D-C3D	-6.31	121.19	128.04
29	hB	202	PEB	CHC-C4C-C3C	-6.31	119.58	130.34
29	hM	202	PEB	CHC-C4C-C3C	-6.31	119.58	130.34
29	HG	202	PEB	C1C-CHB-C4B	6.30	136.34	128.81
29	HQ	202	PEB	C1C-CHB-C4B	6.30	136.34	128.81
29	KB	202	PEB	CHC-C4C-C3C	-6.30	119.59	130.34
29	KM	202	PEB	CHC-C4C-C3C	-6.30	119.59	130.34
31	M7	1001	CYC	CAB-C3B-C4B	6.30	131.33	121.38
31	M9	1001	CYC	CAB-C3B-C4B	6.30	131.33	121.38
29	MA	401	PEB	CHB-C4B-NB	-6.30	120.09	128.83
29	MN	405	PEB	CHB-C4B-NB	-6.30	120.09	128.83
29	GB	202	PEB	CHC-C4C-C3C	-6.30	119.59	130.34
29	GM	202	PEB	CHC-C4C-C3C	-6.30	119.59	130.34
29	fB	202	PEB	CHC-C4C-C3C	-6.30	119.60	130.34
29	fM	202	PEB	CHC-C4C-C3C	-6.30	119.60	130.34
29	CB	202	PEB	CHC-C4C-C3C	-6.29	119.60	130.34
29	CM	202	PEB	CHC-C4C-C3C	-6.29	119.60	130.34
29	FG	202	PEB	C1C-CHB-C4B	6.29	136.33	128.81
29	FQ	202	PEB	C1C-CHB-C4B	6.29	136.33	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JG	202	PEB	C1C-CHB-C4B	6.29	136.32	128.81
29	JQ	202	PEB	C1C-CHB-C4B	6.29	136.32	128.81
29	K4	203	PEB	OA-C1A-C2A	-6.29	121.17	126.17
30	QB	201	PUB	CAD-C3D-C4D	6.29	131.31	121.38
30	QM	201	PUB	CAD-C3D-C4D	6.29	131.31	121.38
29	jB	202	PEB	CHC-C4C-C3C	-6.29	119.61	130.34
29	jM	202	PEB	CHC-C4C-C3C	-6.29	119.61	130.34
29	ED	202	PEB	OA-C1A-C2A	-6.29	121.17	126.17
29	QB	204	PEB	CHC-C4C-C3C	-6.29	119.61	130.34
29	QM	204	PEB	CHC-C4C-C3C	-6.29	119.61	130.34
29	lB	202	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	lM	202	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	DG	202	PEB	C1C-CHB-C4B	6.29	136.32	128.81
29	DQ	202	PEB	C1C-CHB-C4B	6.29	136.32	128.81
29	OB	202	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	OM	202	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	YB	203	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	YM	203	PEB	CHC-C4C-C3C	-6.29	119.62	130.34
29	BG	202	PEB	C1C-CHB-C4B	6.28	136.31	128.81
29	BQ	202	PEB	C1C-CHB-C4B	6.28	136.31	128.81
29	ID	203	PEB	OA-C1A-C2A	-6.28	121.18	126.17
29	MB	202	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
29	UB	202	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
29	MM	202	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
29	MQ	401	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
31	C7	1001	CYC	CAB-C3B-C4B	6.28	131.29	121.38
31	C9	1001	CYC	CAB-C3B-C4B	6.28	131.29	121.38
29	EB	202	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
29	EM	202	PEB	CHC-C4C-C3C	-6.28	119.63	130.34
29	WB	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
29	WM	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
31	RP	1001	CYC	OB-C4B-C3B	-6.27	121.23	128.04
29	SB	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
29	SM	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
31	gP	1001	CYC	OB-C4B-C3B	-6.27	121.23	128.04
29	dB	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
29	dM	202	PEB	CHC-C4C-C3C	-6.27	119.64	130.34
31	NP	1001	CYC	OB-C4B-C3B	-6.26	121.24	128.04
29	IB	202	PEB	CHC-C4C-C3C	-6.26	119.65	130.34
29	IM	202	PEB	CHC-C4C-C3C	-6.26	119.65	130.34
29	LG	202	PEB	C1C-CHB-C4B	6.26	136.29	128.81
29	LQ	201	PEB	C1C-CHB-C4B	6.26	136.29	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aB	202	PEB	CHC-C4C-C3C	-6.26	119.65	130.34
29	aM	202	PEB	CHC-C4C-C3C	-6.26	119.65	130.34
31	vP	1001	CYC	OB-C4B-C3B	-6.26	121.24	128.04
31	mP	1001	CYC	OB-C4B-C3B	-6.26	121.25	128.04
31	tP	1001	CYC	OB-C4B-C3B	-6.26	121.25	128.04
30	MA	402	PUB	C4B-CHB-C1C	-6.26	121.33	128.81
31	lP	1001	CYC	OB-C4B-C3B	-6.26	121.25	128.04
29	vJ	201	PEB	C2A-C1A-NA	6.25	113.66	108.27
29	vL	201	PEB	C2A-C1A-NA	6.25	113.66	108.27
31	iP	1001	CYC	OB-C4B-C3B	-6.25	121.26	128.04
31	eP	1001	CYC	OB-C4B-C3B	-6.25	121.26	128.04
29	G4	203	PEB	OA-C1A-C2A	-6.25	121.21	126.17
31	AP	1001	CYC	OB-C4B-C3B	-6.24	121.27	128.04
29	C4	203	PEB	OA-C1A-C2A	-6.24	121.21	126.17
30	AM	305	PUB	OD-C4D-C3D	-6.24	121.27	128.04
31	cP	1001	CYC	OB-C4B-C3B	-6.24	121.27	128.04
30	yJ	303	PUB	CAD-C3D-C4D	6.24	131.23	121.38
31	JP	1001	CYC	OB-C4B-C3B	-6.24	121.27	128.04
29	fJ	201	PEB	C2A-C1A-NA	6.24	113.65	108.27
29	fL	201	PEB	C2A-C1A-NA	6.24	113.65	108.27
31	KP	1001	CYC	OB-C4B-C3B	-6.23	121.28	128.04
31	PP	1001	CYC	OB-C4B-C3B	-6.23	121.28	128.04
31	rP	1001	CYC	OB-C4B-C3B	-6.23	121.28	128.04
30	MN	402	PUB	C4B-CHB-C1C	-6.23	121.37	128.81
29	LJ	201	PEB	C2A-C1A-NA	6.23	113.64	108.27
29	LL	201	PEB	C2A-C1A-NA	6.23	113.64	108.27
29	ZJ	201	PEB	C2A-C1A-NA	6.22	113.64	108.27
29	ZL	201	PEB	C2A-C1A-NA	6.22	113.64	108.27
31	TP	1001	CYC	OB-C4B-C3B	-6.22	121.29	128.04
31	pP	1001	CYC	OB-C4B-C3B	-6.22	121.29	128.04
31	EP	1001	CYC	OB-C4B-C3B	-6.22	121.29	128.04
29	lJ	201	PEB	C2A-C1A-NA	6.21	113.63	108.27
29	lL	201	PEB	C2A-C1A-NA	6.21	113.63	108.27
29	aF	202	PEB	C1C-CHB-C4B	6.21	136.23	128.81
29	aI	202	PEB	C1C-CHB-C4B	6.21	136.23	128.81
29	tJ	201	PEB	C2A-C1A-NA	6.21	113.63	108.27
29	tL	201	PEB	C2A-C1A-NA	6.21	113.63	108.27
29	I4	203	PEB	C1C-CHB-C4B	-6.21	121.39	128.81
30	yL	303	PUB	CAD-C3D-C4D	6.21	131.18	121.38
29	eF	202	PEB	C1C-CHB-C4B	6.20	136.22	128.81
29	eI	202	PEB	C1C-CHB-C4B	6.20	136.22	128.81
29	hJ	201	PEB	C2A-C1A-NA	6.20	113.62	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hL	201	PEB	C2A-C1A-NA	6.20	113.62	108.27
29	mF	202	PEB	C1C-CHB-C4B	6.20	136.22	128.81
29	mI	202	PEB	C1C-CHB-C4B	6.20	136.22	128.81
29	RJ	201	PEB	C2A-C1A-NA	6.20	113.62	108.27
29	RL	201	PEB	C2A-C1A-NA	6.20	113.62	108.27
30	AF	302	PUB	CHB-C1C-NC	-6.20	120.23	128.83
30	AI	302	PUB	CHB-C1C-NC	-6.20	120.23	128.83
29	TJ	201	PEB	C2A-C1A-NA	6.20	113.61	108.27
29	TL	201	PEB	C2A-C1A-NA	6.20	113.61	108.27
29	CD	203	PEB	OA-C1A-C2A	-6.19	121.25	126.17
31	GP	1001	CYC	OB-C4B-C3B	-6.19	121.32	128.04
29	YF	202	PEB	C1C-CHB-C4B	6.19	136.21	128.81
29	YI	202	PEB	C1C-CHB-C4B	6.19	136.21	128.81
29	PF	202	PEB	C1C-CHB-C4B	6.19	136.21	128.81
29	PI	202	PEB	C1C-CHB-C4B	6.19	136.21	128.81
29	nJ	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	nL	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	NJ	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	NL	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	jJ	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	jL	201	PEB	C2A-C1A-NA	6.19	113.61	108.27
29	dF	201	PEB	C1C-CHB-C4B	6.19	136.20	128.81
29	dI	201	PEB	C1C-CHB-C4B	6.19	136.20	128.81
29	VF	202	PEB	C1C-CHB-C4B	6.18	136.20	128.81
29	VI	202	PEB	C1C-CHB-C4B	6.18	136.20	128.81
29	OF	203	PEB	C1C-CHB-C4B	6.18	136.20	128.81
29	OI	203	PEB	C1C-CHB-C4B	6.18	136.20	128.81
29	DJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	PJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	XJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	DL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	PL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	XL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	pJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	pL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	BJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	BL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
29	MA	405	PEB	CHA-C1B-NB	-6.18	112.01	124.93
29	MN	405	PEB	CHA-C1B-NB	-6.18	112.01	124.93
29	kF	202	PEB	C1C-CHB-C4B	6.18	136.19	128.81
29	kI	202	PEB	C1C-CHB-C4B	6.18	136.19	128.81
29	FJ	201	PEB	C2A-C1A-NA	6.18	113.60	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FL	201	PEB	C2A-C1A-NA	6.18	113.60	108.27
31	CP	1001	CYC	OB-C4B-C3B	-6.17	121.34	128.04
29	OR	202	PEB	CHB-C4B-NB	-6.17	120.27	128.83
29	bJ	201	PEB	C2A-C1A-NA	6.17	113.59	108.27
29	bL	201	PEB	C2A-C1A-NA	6.17	113.59	108.27
29	UF	201	PEB	C1C-CHB-C4B	6.17	136.18	128.81
29	UI	201	PEB	C1C-CHB-C4B	6.17	136.18	128.81
29	gF	202	PEB	C1C-CHB-C4B	6.16	136.17	128.81
29	gI	202	PEB	C1C-CHB-C4B	6.16	136.17	128.81
29	dJ	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
29	dL	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
29	VJ	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
29	VL	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
29	JJ	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
29	JL	201	PEB	C2A-C1A-NA	6.16	113.58	108.27
30	MG	402	PUB	CAD-C3D-C4D	6.16	131.11	121.38
29	iF	202	PEB	C1C-CHB-C4B	6.14	136.15	128.81
29	iI	202	PEB	C1C-CHB-C4B	6.14	136.15	128.81
31	UP	1001	CYC	CMA-C3A-C4A	6.14	134.51	125.06
30	MQ	404	PUB	CAD-C3D-C4D	6.13	131.07	121.38
31	jP	1001	CYC	CMA-C3A-C4A	6.13	134.51	125.06
31	MP	1001	CYC	CMA-C3A-C4A	6.13	134.50	125.06
30	AB	305	PUB	CAD-C3D-C4D	6.13	131.06	121.38
29	mB	203	PEB	C1C-CHB-C4B	-6.13	121.49	128.81
29	mM	203	PEB	C1C-CHB-C4B	-6.13	121.49	128.81
29	rJ	201	PEB	C2A-C1A-NA	6.12	113.55	108.27
29	rL	201	PEB	C2A-C1A-NA	6.12	113.55	108.27
31	FP	1001	CYC	CMA-C3A-C4A	6.12	134.49	125.06
31	oP	1001	CYC	CMA-C3A-C4A	6.12	134.49	125.06
31	BP	1001	CYC	CMA-C3A-C4A	6.12	134.49	125.06
31	SP	1001	CYC	CMA-C3A-C4A	6.12	134.49	125.06
31	nP	1001	CYC	CMA-C3A-C4A	6.12	134.49	125.06
31	hP	1001	CYC	CMA-C3A-C4A	6.11	134.48	125.06
31	wP	1001	CYC	CMA-C3A-C4A	6.11	134.47	125.06
29	NB	202	PEB	C1C-CHB-C4B	-6.11	121.51	128.81
29	NM	202	PEB	C1C-CHB-C4B	-6.11	121.51	128.81
31	XP	1001	CYC	CMA-C3A-C4A	6.11	134.47	125.06
31	uP	1001	CYC	CMA-C3A-C4A	6.11	134.47	125.06
29	FB	203	PEB	C1C-CHB-C4B	-6.10	121.52	128.81
29	FM	203	PEB	C1C-CHB-C4B	-6.10	121.52	128.81
31	IP	1001	CYC	CMA-C3A-C4A	6.10	134.46	125.06
29	AC	202	PEB	CHB-C4B-NB	-6.10	120.36	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AE	202	PEB	CHB-C4B-NB	-6.10	120.36	128.83
29	RB	203	PEB	C1C-CHB-C4B	-6.10	121.53	128.81
29	RM	203	PEB	C1C-CHB-C4B	-6.10	121.53	128.81
29	NR	202	PEB	OA-C1A-C2A	-6.10	121.33	126.17
29	LB	203	PEB	C1C-CHB-C4B	-6.10	121.53	128.81
29	LM	203	PEB	C1C-CHB-C4B	-6.10	121.53	128.81
31	QP	1001	CYC	CMA-C3A-C4A	6.09	134.45	125.06
29	kB	203	PEB	C1C-CHB-C4B	-6.09	121.53	128.81
29	kM	203	PEB	C1C-CHB-C4B	-6.09	121.53	128.81
31	lP	1001	CYC	CMA-C3A-C4A	6.09	134.45	125.06
31	HP	1001	CYC	CMA-C3A-C4A	6.09	134.45	125.06
31	kP	1001	CYC	CMA-C3A-C4A	6.09	134.45	125.06
31	sP	1001	CYC	CMA-C3A-C4A	6.09	134.45	125.06
31	qP	1001	CYC	CMA-C3A-C4A	6.09	134.44	125.06
31	fP	1001	CYC	CMA-C3A-C4A	6.09	134.44	125.06
31	OP	1001	CYC	CMA-C3A-C4A	6.09	134.44	125.06
30	AF	303	PUB	CBA-CAA-C3A	-6.09	103.75	112.98
30	AI	303	PUB	CBA-CAA-C3A	-6.09	103.75	112.98
29	DB	203	PEB	C1C-CHB-C4B	-6.09	121.54	128.81
29	DM	203	PEB	C1C-CHB-C4B	-6.09	121.54	128.81
30	AM	305	PUB	CAD-C3D-C4D	6.08	130.99	121.38
31	DP	1001	CYC	CMA-C3A-C4A	6.08	134.43	125.06
31	VP	1001	CYC	OB-C4B-C3B	-6.08	121.44	128.04
29	GC	202	PEB	CHB-C4B-NB	-6.08	120.40	128.83
29	GE	202	PEB	CHB-C4B-NB	-6.08	120.40	128.83
29	HB	203	PEB	C1C-CHB-C4B	-6.08	121.55	128.81
29	HM	203	PEB	C1C-CHB-C4B	-6.08	121.55	128.81
29	gB	203	PEB	C1C-CHB-C4B	-6.08	121.55	128.81
29	gM	203	PEB	C1C-CHB-C4B	-6.08	121.55	128.81
29	PB	202	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
29	PM	202	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
31	VP	1001	CYC	CAA-C2A-C1A	6.07	135.75	125.01
30	A1	305	PUB	OD-C4D-C3D	-6.07	121.45	128.04
30	AK	305	PUB	OD-C4D-C3D	-6.07	121.45	128.04
29	XB	202	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
29	XM	202	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
29	N2	202	PEB	OA-C1A-C2A	-6.07	121.35	126.17
29	VB	203	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
29	VM	203	PEB	C1C-CHB-C4B	-6.07	121.56	128.81
29	eB	202	PEB	C1C-CHB-C4B	-6.06	121.56	128.81
29	eM	202	PEB	C1C-CHB-C4B	-6.06	121.56	128.81
29	iB	203	PEB	C1C-CHB-C4B	-6.06	121.57	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iM	203	PEB	C1C-CHB-C4B	-6.06	121.57	128.81
29	EC	202	PEB	CHB-C4B-NB	-6.06	120.42	128.83
29	EE	202	PEB	CHB-C4B-NB	-6.06	120.42	128.83
29	X2	201	PEB	OA-C1A-C2A	-6.06	121.36	126.17
29	KC	203	PEB	CHB-C4B-NB	-6.06	120.42	128.83
29	KE	203	PEB	CHB-C4B-NB	-6.06	120.42	128.83
29	ZB	203	PEB	C1C-CHB-C4B	-6.06	121.57	128.81
29	ZM	203	PEB	C1C-CHB-C4B	-6.06	121.57	128.81
30	MA	402	PUB	CAD-C3D-C4D	6.05	130.94	121.38
29	IC	202	PEB	CHB-C4B-NB	-6.05	120.44	128.83
29	IE	202	PEB	CHB-C4B-NB	-6.05	120.44	128.83
29	TB	203	PEB	C1C-CHB-C4B	-6.05	121.59	128.81
29	TM	203	PEB	C1C-CHB-C4B	-6.05	121.59	128.81
31	xP	1001	CYC	CAA-C2A-C1A	6.04	135.71	125.01
30	MN	402	PUB	CAD-C3D-C4D	6.04	130.93	121.38
29	JB	203	PEB	C1C-CHB-C4B	-6.04	121.59	128.81
29	JM	203	PEB	C1C-CHB-C4B	-6.04	121.59	128.81
29	CC	202	PEB	CHB-C4B-NB	-6.04	120.45	128.83
29	CE	202	PEB	CHB-C4B-NB	-6.04	120.45	128.83
29	cB	203	PEB	C1C-CHB-C4B	-6.04	121.59	128.81
29	cM	203	PEB	C1C-CHB-C4B	-6.04	121.59	128.81
29	uJ	202	PEB	CMB-C2B-C1B	6.04	134.36	125.06
29	uL	202	PEB	CMB-C2B-C1B	6.04	134.36	125.06
29	XR	202	PEB	OA-C1A-C2A	-6.04	121.37	126.17
29	PR	201	PEB	OA-C1A-C2A	-6.03	121.38	126.17
29	AJ	201	PEB	CMB-C2B-C1B	6.03	134.35	125.06
29	AL	201	PEB	CMB-C2B-C1B	6.03	134.35	125.06
31	xP	1001	CYC	OB-C4B-C3B	-6.03	121.49	128.04
29	SJ	201	PEB	CMB-C2B-C1B	6.03	134.35	125.06
29	SL	201	PEB	CMB-C2B-C1B	6.03	134.35	125.06
30	A7	303	PUB	OD-C4D-C3D	-6.03	121.50	128.04
30	A9	303	PUB	OD-C4D-C3D	-6.03	121.50	128.04
29	UJ	201	PEB	CMB-C2B-C1B	6.03	134.34	125.06
29	UL	201	PEB	CMB-C2B-C1B	6.03	134.34	125.06
29	YJ	201	PEB	CMB-C2B-C1B	6.03	134.34	125.06
29	YL	201	PEB	CMB-C2B-C1B	6.03	134.34	125.06
29	EJ	201	PEB	CMB-C2B-C1B	6.02	134.34	125.06
29	EL	201	PEB	CMB-C2B-C1B	6.02	134.34	125.06
29	RR	202	PEB	OA-C1A-C2A	-6.02	121.39	126.17
29	aJ	201	PEB	CMB-C2B-C1B	6.02	134.34	125.06
29	aL	201	PEB	CMB-C2B-C1B	6.02	134.34	125.06
29	eJ	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eL	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06
29	oJ	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06
29	oL	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06
29	KJ	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06
29	KL	201	PEB	CMB-C2B-C1B	6.02	134.33	125.06
29	wJ	302	PEB	CHB-C4B-NB	-6.02	120.48	128.83
29	QJ	201	PEB	CMB-C2B-C1B	6.01	134.33	125.06
29	QL	201	PEB	CMB-C2B-C1B	6.01	134.33	125.06
30	MG	402	PUB	OD-C4D-C3D	-6.01	121.51	128.04
30	MQ	404	PUB	OD-C4D-C3D	-6.01	121.52	128.04
29	gJ	201	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	gL	201	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	VR	202	PEB	OA-C1A-C2A	-6.01	121.39	126.17
29	TR	202	PEB	OA-C1A-C2A	-6.01	121.40	126.17
29	MJ	201	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	WJ	202	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	ML	201	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	WL	202	PEB	CMB-C2B-C1B	6.01	134.32	125.06
29	GJ	201	PEB	CMB-C2B-C1B	6.01	134.31	125.06
29	GL	201	PEB	CMB-C2B-C1B	6.01	134.31	125.06
29	cJ	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	cL	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	OJ	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	OL	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	sJ	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	sL	201	PEB	CMB-C2B-C1B	6.00	134.31	125.06
29	T2	202	PEB	OA-C1A-C2A	-6.00	121.40	126.17
30	A7	302	PUB	OD-C4D-C3D	-6.00	121.53	128.04
30	A9	302	PUB	OD-C4D-C3D	-6.00	121.53	128.04
29	CJ	201	PEB	CMB-C2B-C1B	6.00	134.30	125.06
29	CL	201	PEB	CMB-C2B-C1B	6.00	134.30	125.06
29	iJ	201	PEB	CMB-C2B-C1B	6.00	134.30	125.06
29	iL	201	PEB	CMB-C2B-C1B	6.00	134.30	125.06
29	kJ	201	PEB	CMB-C2B-C1B	5.99	134.30	125.06
29	kL	201	PEB	CMB-C2B-C1B	5.99	134.30	125.06
29	wL	302	PEB	CHB-C4B-NB	-5.99	120.51	128.83
29	V2	202	PEB	OA-C1A-C2A	-5.99	121.41	126.17
29	mJ	201	PEB	CMB-C2B-C1B	5.99	134.28	125.06
29	mL	201	PEB	CMB-C2B-C1B	5.99	134.28	125.06
29	IJ	201	PEB	CMB-C2B-C1B	5.99	134.28	125.06
29	IL	201	PEB	CMB-C2B-C1B	5.99	134.28	125.06
29	xL	302	PEB	CHB-C4B-NB	-5.98	120.54	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	qJ	201	PEB	CMB-C2B-C1B	5.98	134.27	125.06
29	qL	201	PEB	CMB-C2B-C1B	5.98	134.27	125.06
29	O7	201	PEB	C1C-CHB-C4B	5.97	135.94	128.81
29	O9	201	PEB	C1C-CHB-C4B	5.97	135.94	128.81
29	R2	202	PEB	OA-C1A-C2A	-5.97	121.43	126.17
29	P2	201	PEB	OA-C1A-C2A	-5.97	121.43	126.17
31	1P	1002	CYC	CHD-C4C-NC	5.96	132.29	125.20
29	S7	201	PEB	C1C-CHB-C4B	5.95	135.92	128.81
29	S9	201	PEB	C1C-CHB-C4B	5.95	135.92	128.81
29	xJ	302	PEB	CHB-C4B-NB	-5.95	120.58	128.83
29	U7	201	PEB	C1C-CHB-C4B	5.95	135.91	128.81
29	U9	201	PEB	C1C-CHB-C4B	5.95	135.91	128.81
30	wJ	304	PUB	OD-C4D-C3D	-5.94	121.59	128.04
29	d7	201	PEB	C1C-CHB-C4B	5.94	135.90	128.81
29	d9	201	PEB	C1C-CHB-C4B	5.94	135.90	128.81
29	Q7	201	PEB	C1C-CHB-C4B	5.93	135.90	128.81
29	l7	201	PEB	C1C-CHB-C4B	5.93	135.90	128.81
29	Q9	201	PEB	C1C-CHB-C4B	5.93	135.90	128.81
29	l9	201	PEB	C1C-CHB-C4B	5.93	135.90	128.81
29	AM	301	PEB	CHB-C4B-NB	-5.93	120.60	128.83
29	j7	201	PEB	C1C-CHB-C4B	5.93	135.89	128.81
29	j9	201	PEB	C1C-CHB-C4B	5.93	135.89	128.81
29	AB	301	PEB	CHB-C4B-NB	-5.92	120.61	128.83
29	f7	201	PEB	C1C-CHB-C4B	5.92	135.88	128.81
29	f9	201	PEB	C1C-CHB-C4B	5.92	135.88	128.81
29	h7	201	PEB	C1C-CHB-C4B	5.92	135.88	128.81
29	h9	201	PEB	C1C-CHB-C4B	5.92	135.88	128.81
29	b7	201	PEB	C1C-CHB-C4B	5.91	135.87	128.81
29	b9	201	PEB	C1C-CHB-C4B	5.91	135.87	128.81
30	yJ	303	PUB	OD-C4D-C3D	-5.91	121.62	128.04
29	W7	201	PEB	C1C-CHB-C4B	5.91	135.87	128.81
29	W9	201	PEB	C1C-CHB-C4B	5.91	135.87	128.81
30	wL	304	PUB	OD-C4D-C3D	-5.91	121.63	128.04
30	xL	304	PUB	OD-C4D-C3D	-5.90	121.63	128.04
30	yL	303	PUB	OD-C4D-C3D	-5.90	121.64	128.04
31	YP	1000	CYC	CHD-C4C-NC	5.90	132.22	125.20
31	WP	1001	CYC	CHB-C4A-NA	-5.89	112.61	124.93
31	yP	1001	CYC	CHB-C4A-NA	-5.89	112.61	124.93
30	xJ	304	PUB	OD-C4D-C3D	-5.89	121.65	128.04
29	Z7	201	PEB	C1C-CHB-C4B	5.88	135.83	128.81
29	Z9	201	PEB	C1C-CHB-C4B	5.88	135.83	128.81
31	D7	1001	CYC	OB-C4B-C3B	-5.86	121.68	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	D9	1001	CYC	OB-C4B-C3B	-5.86	121.68	128.04
31	F9	1001	CYC	OB-C4B-C3B	-5.86	121.68	128.04
31	LF	1001	CYC	OB-C4B-C3B	-5.84	121.70	128.04
31	LI	1001	CYC	OB-C4B-C3B	-5.84	121.70	128.04
31	AP	1001	CYC	CHD-C4C-NC	5.84	132.15	125.20
31	tP	1001	CYC	CHD-C4C-NC	5.84	132.15	125.20
31	F7	1001	CYC	OB-C4B-C3B	-5.84	121.70	128.04
31	N7	1001	CYC	OB-C4B-C3B	-5.84	121.70	128.04
31	N9	1001	CYC	OB-C4B-C3B	-5.84	121.70	128.04
31	GP	1001	CYC	CHD-C4C-NC	5.84	132.15	125.20
31	FF	1001	CYC	OB-C4B-C3B	-5.84	121.71	128.04
31	FI	1001	CYC	OB-C4B-C3B	-5.84	121.71	128.04
31	L9	1001	CYC	OB-C4B-C3B	-5.83	121.72	128.04
31	mP	1001	CYC	CHD-C4C-NC	5.83	132.13	125.20
31	JP	1001	CYC	CHD-C4C-NC	5.82	132.13	125.20
31	JF	1001	CYC	OB-C4B-C3B	-5.82	121.73	128.04
31	JI	1001	CYC	OB-C4B-C3B	-5.82	121.73	128.04
31	TP	1001	CYC	CHD-C4C-NC	5.82	132.12	125.20
31	DF	1001	CYC	OB-C4B-C3B	-5.81	121.73	128.04
31	DI	1001	CYC	OB-C4B-C3B	-5.81	121.73	128.04
31	PP	1001	CYC	CHD-C4C-NC	5.81	132.12	125.20
31	L7	1001	CYC	OB-C4B-C3B	-5.81	121.73	128.04
31	iP	1001	CYC	CHD-C4C-NC	5.81	132.11	125.20
31	NF	1001	CYC	OB-C4B-C3B	-5.81	121.74	128.04
31	NI	1001	CYC	OB-C4B-C3B	-5.81	121.74	128.04
29	i7	203	PEB	CHB-C4B-NB	-5.81	120.77	128.83
29	i9	203	PEB	CHB-C4B-NB	-5.81	120.77	128.83
31	H7	1001	CYC	OB-C4B-C3B	-5.81	121.74	128.04
31	H9	1001	CYC	OB-C4B-C3B	-5.81	121.74	128.04
31	J7	1001	CYC	OB-C4B-C3B	-5.80	121.74	128.04
31	vP	1001	CYC	CHD-C4C-NC	5.80	132.10	125.20
29	Y7	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
29	c7	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
29	Y9	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
29	c9	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
29	T7	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
29	T9	203	PEB	CHB-C4B-NB	-5.80	120.78	128.83
31	J9	1001	CYC	OB-C4B-C3B	-5.80	121.75	128.04
29	m7	203	PEB	CHB-C4B-NB	-5.80	120.79	128.83
29	m9	203	PEB	CHB-C4B-NB	-5.80	120.79	128.83
29	ID	203	PEB	CHB-C4B-NB	-5.79	120.79	128.83
29	S2	201	PEB	CHB-C4B-NB	-5.79	120.79	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	HF	1001	CYC	OB-C4B-C3B	-5.79	121.75	128.04
31	HI	1001	CYC	OB-C4B-C3B	-5.79	121.75	128.04
31	lP	1001	CYC	CHD-C4C-NC	5.79	132.09	125.20
29	P7	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
29	P9	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
31	EP	1001	CYC	CHD-C4C-NC	5.79	132.09	125.20
29	e7	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
29	e9	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
29	k7	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
29	k9	203	PEB	CHB-C4B-NB	-5.79	120.80	128.83
29	g7	202	PEB	CHC-C4C-C3C	-5.78	120.47	130.34
29	g9	202	PEB	CHC-C4C-C3C	-5.78	120.47	130.34
29	AF	301	PEB	CHB-C4B-NB	-5.78	120.81	128.83
29	AI	301	PEB	CHB-C4B-NB	-5.78	120.81	128.83
31	RP	1001	CYC	CHD-C4C-NC	5.78	132.08	125.20
29	KD	203	PEB	CHB-C4B-NB	-5.78	120.81	128.83
31	gP	1001	CYC	CHD-C4C-NC	5.78	132.08	125.20
29	MQ	406	PEB	CHB-C4B-NB	-5.78	120.81	128.83
31	pP	1001	CYC	CHD-C4C-NC	5.78	132.08	125.20
29	R7	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
29	T7	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
29	i7	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
29	R9	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
29	T9	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
29	i9	202	PEB	CHC-C4C-C3C	-5.78	120.48	130.34
31	NP	1001	CYC	CHD-C4C-NC	5.78	132.08	125.20
30	yJ	303	PUB	C4B-CHB-C1C	-5.78	121.91	128.81
29	c7	202	PEB	CHC-C4C-C3C	-5.77	120.49	130.34
29	c9	202	PEB	CHC-C4C-C3C	-5.77	120.49	130.34
29	GD	203	PEB	CHB-C4B-NB	-5.77	120.82	128.83
31	eP	1001	CYC	CHD-C4C-NC	5.77	132.07	125.20
30	yL	303	PUB	C4B-CHB-C1C	-5.77	121.91	128.81
31	KP	1001	CYC	CHD-C4C-NC	5.77	132.06	125.20
29	R7	203	PEB	CHB-C4B-NB	-5.77	120.83	128.83
29	R9	203	PEB	CHB-C4B-NB	-5.77	120.83	128.83
29	K4	203	PEB	CHB-C4B-NB	-5.77	120.83	128.83
29	Y7	202	PEB	CHC-C4C-C3C	-5.77	120.50	130.34
29	Y9	202	PEB	CHC-C4C-C3C	-5.77	120.50	130.34
29	MD	203	PEB	CHB-C4B-NB	-5.77	120.83	128.83
29	k7	202	PEB	CHC-C4C-C3C	-5.76	120.50	130.34
29	k9	202	PEB	CHC-C4C-C3C	-5.76	120.50	130.34
29	a7	203	PEB	CHB-C4B-NB	-5.76	120.83	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	a9	203	PEB	CHB-C4B-NB	-5.76	120.83	128.83
29	a7	202	PEB	CHC-C4C-C3C	-5.76	120.51	130.34
29	a9	202	PEB	CHC-C4C-C3C	-5.76	120.51	130.34
31	CP	1001	CYC	CHD-C4C-NC	5.76	132.06	125.20
29	m7	202	PEB	CHC-C4C-C3C	-5.76	120.51	130.34
29	m9	202	PEB	CHC-C4C-C3C	-5.76	120.51	130.34
30	MA	402	PUB	OD-C4D-C3D	-5.76	121.79	128.04
31	rP	1001	CYC	CHD-C4C-NC	5.76	132.05	125.20
29	e7	202	PEB	CHC-C4C-C3C	-5.75	120.52	130.34
29	e9	202	PEB	CHC-C4C-C3C	-5.75	120.52	130.34
29	E4	203	PEB	CHB-C4B-NB	-5.75	120.85	128.83
29	g7	203	PEB	CHB-C4B-NB	-5.75	120.85	128.83
29	g9	203	PEB	CHB-C4B-NB	-5.75	120.85	128.83
29	G4	203	PEB	CHB-C4B-NB	-5.75	120.85	128.83
29	V7	202	PEB	CHC-C4C-C3C	-5.75	120.53	130.34
29	V9	202	PEB	CHC-C4C-C3C	-5.75	120.53	130.34
31	cP	1001	CYC	CHD-C4C-NC	5.75	132.04	125.20
29	MG	404	PEB	CHB-C4B-NB	-5.75	120.86	128.83
29	P7	202	PEB	CHC-C4C-C3C	-5.74	120.55	130.34
29	P9	202	PEB	CHC-C4C-C3C	-5.74	120.55	130.34
31	1P	1001	CYC	CHD-C4C-NC	5.74	132.03	125.20
29	C4	203	PEB	CHB-C4B-NB	-5.74	120.87	128.83
29	V7	203	PEB	CHB-C4B-NB	-5.74	120.87	128.83
29	V9	203	PEB	CHB-C4B-NB	-5.74	120.87	128.83
30	MN	402	PUB	OD-C4D-C3D	-5.73	121.82	128.04
31	fP	1001	CYC	CHD-C4C-NC	5.73	132.01	125.20
29	CD	203	PEB	CHB-C4B-NB	-5.73	120.88	128.83
31	wP	1001	CYC	CHD-C4C-NC	5.73	132.01	125.20
31	UP	1001	CYC	CHD-C4C-NC	5.72	132.01	125.20
29	ED	202	PEB	CHB-C4B-NB	-5.72	120.89	128.83
31	jP	1001	CYC	CHD-C4C-NC	5.72	132.00	125.20
31	sP	1001	CYC	CHD-C4C-NC	5.72	132.00	125.20
31	nP	1001	CYC	CHD-C4C-NC	5.71	132.00	125.20
31	HP	1001	CYC	CHD-C4C-NC	5.71	131.99	125.20
29	P7	202	PEB	C1C-CHB-C4B	5.70	135.62	128.81
29	P9	202	PEB	C1C-CHB-C4B	5.70	135.62	128.81
31	qP	1001	CYC	CHD-C4C-NC	5.70	131.98	125.20
31	FP	1001	CYC	CHD-C4C-NC	5.70	131.98	125.20
30	MQ	405	PUB	CHA-C4A-NA	-5.70	107.33	113.95
29	KD	202	PEB	C1C-CHB-C4B	5.69	135.61	128.81
31	OP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
29	E4	202	PEB	C1C-CHB-C4B	5.69	135.61	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	M4	202	PEB	C1C-CHB-C4B	5.69	135.61	128.81
31	uP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
31	hP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
29	GD	202	PEB	C1C-CHB-C4B	5.69	135.60	128.81
31	BP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
31	XP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
31	DP	1001	CYC	CHD-C4C-NC	5.69	131.97	125.20
31	NK	1001	CYC	CMB-C2B-C1B	5.69	131.27	124.17
29	ED	201	PEB	C1C-CHB-C4B	5.69	135.60	128.81
29	LD	202	PEB	CHC-C1D-ND	-5.68	107.35	113.95
31	MP	1001	CYC	CHD-C4C-NC	5.68	131.96	125.20
29	V7	202	PEB	C1C-CHB-C4B	5.68	135.59	128.81
29	V9	202	PEB	C1C-CHB-C4B	5.68	135.59	128.81
30	MG	403	PUB	CHA-C4A-NA	-5.68	107.35	113.95
29	M3	202	PEB	CHB-C4B-NB	-5.68	120.95	128.83
29	MO	202	PEB	CHB-C4B-NB	-5.68	120.95	128.83
29	CD	202	PEB	C1C-CHB-C4B	5.68	135.59	128.81
31	SP	1001	CYC	CHD-C4C-NC	5.68	131.95	125.20
29	T7	202	PEB	C1C-CHB-C4B	5.67	135.59	128.81
29	T9	202	PEB	C1C-CHB-C4B	5.67	135.59	128.81
29	g7	202	PEB	C1C-CHB-C4B	5.67	135.59	128.81
29	g9	202	PEB	C1C-CHB-C4B	5.67	135.59	128.81
29	Y7	202	PEB	C1C-CHB-C4B	5.67	135.58	128.81
29	Y9	202	PEB	C1C-CHB-C4B	5.67	135.58	128.81
29	NO	202	PEB	CHB-C4B-NB	-5.67	120.96	128.83
29	L4	202	PEB	CHC-C1D-ND	-5.67	107.36	113.95
31	F1	1001	CYC	CMB-C2B-C1B	5.67	131.25	124.17
31	FK	1001	CYC	CMB-C2B-C1B	5.67	131.25	124.17
31	oP	1001	CYC	CHD-C4C-NC	5.67	131.94	125.20
29	K4	202	PEB	C1C-CHB-C4B	5.67	135.58	128.81
29	MG	404	PEB	C1C-CHB-C4B	-5.67	122.04	128.81
29	N3	202	PEB	CHB-C4B-NB	-5.67	120.97	128.83
31	IP	1001	CYC	CHD-C4C-NC	5.66	131.94	125.20
29	c7	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	c9	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
31	QP	1001	CYC	CHD-C4C-NC	5.66	131.94	125.20
29	m7	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	m9	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	e7	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	e9	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
31	HK	1001	CYC	CMB-C2B-C1B	5.66	131.24	124.17
29	i7	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k7	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	i9	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
29	k9	202	PEB	C1C-CHB-C4B	5.66	135.57	128.81
31	DK	1001	CYC	CMB-C2B-C1B	5.66	131.23	124.17
31	D1	1001	CYC	CMB-C2B-C1B	5.65	131.23	124.17
31	N1	1001	CYC	CMB-C2B-C1B	5.65	131.23	124.17
30	BB	302	PUB	CHB-C1C-NC	-5.65	120.99	128.83
30	BM	302	PUB	CHB-C1C-NC	-5.65	120.99	128.83
31	L1	1001	CYC	CMB-C2B-C1B	5.65	131.22	124.17
31	LK	1001	CYC	CMB-C2B-C1B	5.65	131.22	124.17
31	FF	1001	CYC	CMA-C3A-C4A	5.65	133.76	125.06
31	FI	1001	CYC	CMA-C3A-C4A	5.65	133.76	125.06
29	G4	202	PEB	C1C-CHB-C4B	5.65	135.56	128.81
29	R7	202	PEB	C1C-CHB-C4B	5.65	135.56	128.81
29	R9	202	PEB	C1C-CHB-C4B	5.65	135.56	128.81
31	HF	1001	CYC	CMA-C3A-C4A	5.65	133.76	125.06
31	HI	1001	CYC	CMA-C3A-C4A	5.65	133.76	125.06
29	J4	202	PEB	CHC-C1D-ND	-5.65	107.39	113.95
29	JD	202	PEB	CHC-C1D-ND	-5.65	107.39	113.95
29	dF	201	PEB	CHC-C4C-C3C	-5.64	120.71	130.34
29	dI	201	PEB	CHC-C4C-C3C	-5.64	120.71	130.34
29	C4	202	PEB	C1C-CHB-C4B	5.64	135.55	128.81
31	JF	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
31	JI	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
31	kP	1001	CYC	CHD-C4C-NC	5.64	131.91	125.20
31	NF	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
31	NI	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
29	UF	201	PEB	CHC-C4C-C3C	-5.64	120.72	130.34
29	UI	201	PEB	CHC-C4C-C3C	-5.64	120.72	130.34
29	gF	202	PEB	CHC-C4C-C3C	-5.64	120.72	130.34
29	gI	202	PEB	CHC-C4C-C3C	-5.64	120.72	130.34
29	MQ	406	PEB	C1C-CHB-C4B	-5.64	122.07	128.81
31	DF	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
31	DI	1001	CYC	CMA-C3A-C4A	5.64	133.75	125.06
29	I4	202	PEB	C1C-CHB-C4B	5.64	135.54	128.81
29	IJ	202	PEB	CHB-C4B-NB	-5.64	121.01	128.83
29	IL	202	PEB	CHB-C4B-NB	-5.64	121.01	128.83
29	GJ	202	PEB	CHB-C4B-NB	-5.63	121.01	128.83
29	iJ	202	PEB	CHB-C4B-NB	-5.63	121.01	128.83
29	GL	202	PEB	CHB-C4B-NB	-5.63	121.01	128.83
29	iL	202	PEB	CHB-C4B-NB	-5.63	121.01	128.83
29	iF	202	PEB	CHC-C4C-C3C	-5.63	120.73	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iI	202	PEB	CHC-C4C-C3C	-5.63	120.73	130.34
31	LF	1001	CYC	CMA-C3A-C4A	5.63	133.73	125.06
31	LI	1001	CYC	CMA-C3A-C4A	5.63	133.73	125.06
29	PF	202	PEB	CHC-C4C-C3C	-5.63	120.74	130.34
29	PI	202	PEB	CHC-C4C-C3C	-5.63	120.74	130.34
29	MD	202	PEB	C1C-CHB-C4B	5.63	135.53	128.81
29	cJ	202	PEB	CHB-C4B-NB	-5.63	121.02	128.83
29	cL	202	PEB	CHB-C4B-NB	-5.63	121.02	128.83
29	oJ	202	PEB	CHB-C4B-NB	-5.63	121.02	128.83
29	oL	202	PEB	CHB-C4B-NB	-5.63	121.02	128.83
29	JA	201	PEB	CHC-C1D-ND	-5.63	107.41	113.95
29	FD	202	PEB	CHC-C1D-ND	-5.63	107.41	113.95
29	JN	201	PEB	CHC-C1D-ND	-5.63	107.41	113.95
29	eF	202	PEB	CHC-C4C-C3C	-5.63	120.74	130.34
29	eI	202	PEB	CHC-C4C-C3C	-5.63	120.74	130.34
29	H4	202	PEB	CHC-C1D-ND	-5.63	107.42	113.95
29	EJ	202	PEB	CHB-C4B-NB	-5.62	121.03	128.83
29	EL	202	PEB	CHB-C4B-NB	-5.62	121.03	128.83
29	F4	202	PEB	CHC-C1D-ND	-5.62	107.42	113.95
29	gJ	202	PEB	CHB-C4B-NB	-5.62	121.03	128.83
29	gL	202	PEB	CHB-C4B-NB	-5.62	121.03	128.83
29	VF	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	aF	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	VI	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	aI	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	DA	201	PEB	CHC-C1D-ND	-5.62	107.42	113.95
29	DD	202	PEB	CHC-C1D-ND	-5.62	107.42	113.95
29	DN	201	PEB	CHC-C1D-ND	-5.62	107.42	113.95
29	kF	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	kI	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	a7	202	PEB	C1C-CHB-C4B	5.62	135.52	128.81
29	a9	202	PEB	C1C-CHB-C4B	5.62	135.52	128.81
29	mF	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	mI	202	PEB	CHC-C4C-C3C	-5.62	120.75	130.34
29	OF	203	PEB	CHC-C4C-C3C	-5.62	120.76	130.34
29	OI	203	PEB	CHC-C4C-C3C	-5.62	120.76	130.34
29	HD	202	PEB	CHC-C1D-ND	-5.62	107.42	113.95
29	FA	201	PEB	CHC-C1D-ND	-5.61	107.43	113.95
29	FN	201	PEB	CHC-C1D-ND	-5.61	107.43	113.95
29	KJ	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	KL	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	YF	202	PEB	CHC-C4C-C3C	-5.61	120.76	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YI	202	PEB	CHC-C4C-C3C	-5.61	120.76	130.34
29	kJ	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	kL	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	ID	202	PEB	C1C-CHB-C4B	5.61	135.51	128.81
29	mJ	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	mL	202	PEB	CHB-C4B-NB	-5.61	121.04	128.83
29	BD	202	PEB	CHC-C1D-ND	-5.61	107.43	113.95
31	H1	1001	CYC	CMB-C2B-C1B	5.61	131.17	124.17
29	CJ	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	OJ	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	CL	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	OL	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	BA	201	PEB	CHC-C1D-ND	-5.61	107.44	113.95
29	BN	201	PEB	CHC-C1D-ND	-5.61	107.44	113.95
29	YJ	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	YL	202	PEB	CHB-C4B-NB	-5.61	121.05	128.83
29	aJ	202	PEB	CHB-C4B-NB	-5.60	121.05	128.83
29	aL	202	PEB	CHB-C4B-NB	-5.60	121.05	128.83
31	J1	1001	CYC	CMB-C2B-C1B	5.60	131.17	124.17
31	JK	1001	CYC	CMB-C2B-C1B	5.60	131.17	124.17
29	WJ	203	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	WL	203	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	D4	202	PEB	CHC-C1D-ND	-5.60	107.45	113.95
29	uJ	203	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	uL	203	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	MJ	202	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	ML	202	PEB	CHB-C4B-NB	-5.60	121.06	128.83
29	B4	202	PEB	CHC-C1D-ND	-5.60	107.45	113.95
30	A1	305	PUB	CHA-C1B-C2B	-5.60	120.79	130.34
30	AK	305	PUB	CHA-C1B-C2B	-5.60	120.79	130.34
29	QJ	202	PEB	CHB-C4B-NB	-5.60	121.07	128.83
29	QL	202	PEB	CHB-C4B-NB	-5.60	121.07	128.83
29	LA	201	PEB	CHC-C1D-ND	-5.60	107.45	113.95
29	LN	201	PEB	CHC-C1D-ND	-5.60	107.45	113.95
29	sJ	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83
29	sL	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83
30	QB	201	PUB	CHC-C1D-ND	-5.59	106.65	113.72
30	QM	201	PUB	CHC-C1D-ND	-5.59	106.65	113.72
29	HA	201	PEB	CHC-C1D-ND	-5.59	107.45	113.95
29	HN	201	PEB	CHC-C1D-ND	-5.59	107.45	113.95
29	AJ	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83
29	AL	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	qJ	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83
29	qL	202	PEB	CHB-C4B-NB	-5.59	121.07	128.83
31	J1	1001	CYC	CAB-C3B-C4B	5.58	130.20	121.38
31	JK	1001	CYC	CAB-C3B-C4B	5.58	130.20	121.38
31	F1	1001	CYC	CAB-C3B-C4B	5.58	130.19	121.38
31	FK	1001	CYC	CAB-C3B-C4B	5.58	130.19	121.38
29	UJ	202	PEB	CHB-C4B-NB	-5.58	121.09	128.83
29	UL	202	PEB	CHB-C4B-NB	-5.58	121.09	128.83
29	Z7	201	PEB	CHB-C4B-C3B	-5.58	112.43	125.32
29	Z9	201	PEB	CHB-C4B-C3B	-5.58	112.43	125.32
29	W7	201	PEB	CHB-C4B-C3B	-5.58	112.43	125.32
29	W9	201	PEB	CHB-C4B-C3B	-5.58	112.43	125.32
31	D1	1001	CYC	CAB-C3B-C4B	5.58	130.19	121.38
31	N1	1001	CYC	CAB-C3B-C4B	5.58	130.19	121.38
29	SJ	202	PEB	CHB-C4B-NB	-5.57	121.09	128.83
29	SL	202	PEB	CHB-C4B-NB	-5.57	121.09	128.83
29	U7	201	PEB	CHB-C4B-C3B	-5.57	112.44	125.32
29	U9	201	PEB	CHB-C4B-C3B	-5.57	112.44	125.32
31	NK	1001	CYC	CAB-C3B-C4B	5.57	130.18	121.38
29	h7	201	PEB	CHB-C4B-C3B	-5.57	112.45	125.32
29	h9	201	PEB	CHB-C4B-C3B	-5.57	112.45	125.32
31	HK	1001	CYC	CAB-C3B-C4B	5.57	130.18	121.38
29	b7	201	PEB	CHB-C4B-C3B	-5.57	112.45	125.32
29	b9	201	PEB	CHB-C4B-C3B	-5.57	112.45	125.32
30	A1	304	PUB	OD-C4D-C3D	-5.57	122.00	128.04
30	AK	304	PUB	OD-C4D-C3D	-5.57	122.00	128.04
29	Q7	201	PEB	CHB-C4B-C3B	-5.57	112.46	125.32
29	Q9	201	PEB	CHB-C4B-C3B	-5.57	112.46	125.32
31	L1	1001	CYC	CAB-C3B-C4B	5.57	130.17	121.38
31	LK	1001	CYC	CAB-C3B-C4B	5.57	130.17	121.38
29	eJ	202	PEB	CHB-C4B-NB	-5.56	121.11	128.83
29	eL	202	PEB	CHB-C4B-NB	-5.56	121.11	128.83
30	A1	304	PUB	CHB-C1C-NC	-5.56	121.11	128.83
30	AK	304	PUB	CHB-C1C-NC	-5.56	121.11	128.83
29	j7	201	PEB	CHB-C4B-C3B	-5.56	112.47	125.32
29	j9	201	PEB	CHB-C4B-C3B	-5.56	112.47	125.32
31	H1	1001	CYC	CAB-C3B-C4B	5.56	130.16	121.38
29	S7	201	PEB	CHB-C4B-C3B	-5.56	112.48	125.32
29	S9	201	PEB	CHB-C4B-C3B	-5.56	112.48	125.32
29	d7	201	PEB	CHB-C4B-C3B	-5.56	112.48	125.32
29	d9	201	PEB	CHB-C4B-C3B	-5.56	112.48	125.32
31	DK	1001	CYC	CAB-C3B-C4B	5.56	130.15	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	l7	201	PEB	CHB-C4B-C3B	-5.55	112.49	125.32
29	l9	201	PEB	CHB-C4B-C3B	-5.55	112.49	125.32
29	O7	201	PEB	CHB-C4B-C3B	-5.55	112.50	125.32
29	O9	201	PEB	CHB-C4B-C3B	-5.55	112.50	125.32
29	f7	201	PEB	CHB-C4B-C3B	-5.55	112.51	125.32
29	f9	201	PEB	CHB-C4B-C3B	-5.55	112.51	125.32
29	b1	201	PEB	CHB-C4B-NB	-5.54	121.14	128.83
29	bK	201	PEB	CHB-C4B-NB	-5.54	121.14	128.83
29	fB	201	PEB	CHB-C4B-NB	-5.54	121.14	128.83
29	fM	201	PEB	CHB-C4B-NB	-5.54	121.14	128.83
29	IB	201	PEB	CHB-C4B-NB	-5.54	121.15	128.83
29	IM	201	PEB	CHB-C4B-NB	-5.54	121.15	128.83
29	J5	201	PEB	CHC-C1D-ND	-5.53	107.52	113.95
29	W1	201	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	WK	201	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	Q1	201	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	QK	201	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	U1	202	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	UK	202	PEB	CHB-C4B-NB	-5.53	121.16	128.83
29	f1	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	fK	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	j1	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	jK	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
30	AF	302	PUB	OD-C4D-C3D	-5.52	122.05	128.04
30	AI	302	PUB	OD-C4D-C3D	-5.52	122.05	128.04
29	aB	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	aM	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	S1	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	SK	201	PEB	CHB-C4B-NB	-5.52	121.17	128.83
29	J8	201	PEB	CHC-C1D-ND	-5.51	107.55	113.95
29	dB	201	PEB	CHB-C4B-NB	-5.51	121.18	128.83
29	dM	201	PEB	CHB-C4B-NB	-5.51	121.18	128.83
29	h1	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	WB	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	hK	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	WM	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	OB	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	OM	201	PEB	CHB-C4B-NB	-5.51	121.19	128.83
29	SB	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	SM	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
30	xL	304	PUB	CHB-C1C-NC	-5.50	121.20	128.83
29	O1	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OK	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
30	xJ	304	PUB	CHB-C1C-NC	-5.50	121.20	128.83
29	Z1	202	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	MB	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	ZK	202	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	MM	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	CB	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	CM	201	PEB	CHB-C4B-NB	-5.50	121.20	128.83
29	l1	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	lK	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	lB	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	lM	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	d1	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	dK	201	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	QB	203	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	QM	203	PEB	CHB-C4B-NB	-5.49	121.21	128.83
29	R1	202	PEB	CHC-C4C-C3C	-5.49	120.98	130.34
29	a1	202	PEB	CHC-C4C-C3C	-5.49	120.98	130.34
29	RK	202	PEB	CHC-C4C-C3C	-5.49	120.98	130.34
29	aK	202	PEB	CHC-C4C-C3C	-5.49	120.98	130.34
29	b1	201	PEB	CHA-C1B-NB	-5.49	113.45	124.93
29	bK	201	PEB	CHA-C1B-NB	-5.49	113.45	124.93
29	EB	201	PEB	CHB-C4B-NB	-5.49	121.22	128.83
29	EM	201	PEB	CHB-C4B-NB	-5.49	121.22	128.83
29	UB	201	PEB	CHB-C4B-NB	-5.48	121.22	128.83
29	UM	201	PEB	CHB-C4B-NB	-5.48	121.22	128.83
31	YP	1000	CYC	CMA-C3A-C4A	5.48	133.51	125.06
31	1P	1002	CYC	CMA-C3A-C4A	5.48	133.51	125.06
29	P1	202	PEB	CHC-C4C-C3C	-5.48	120.99	130.34
29	PK	202	PEB	CHC-C4C-C3C	-5.48	120.99	130.34
29	GB	201	PEB	CHB-C4B-NB	-5.48	121.23	128.83
29	hB	201	PEB	CHB-C4B-NB	-5.48	121.23	128.83
29	GM	201	PEB	CHB-C4B-NB	-5.48	121.23	128.83
29	hM	201	PEB	CHB-C4B-NB	-5.48	121.23	128.83
29	l1	201	PEB	CHA-C1B-NB	-5.48	113.47	124.93
29	lK	201	PEB	CHA-C1B-NB	-5.48	113.47	124.93
29	h1	201	PEB	CHA-C1B-NB	-5.48	113.47	124.93
29	hK	201	PEB	CHA-C1B-NB	-5.48	113.47	124.93
29	Z1	201	PEB	CHC-C4C-C3C	-5.48	121.00	130.34
29	ZK	201	PEB	CHC-C4C-C3C	-5.48	121.00	130.34
29	Q1	201	PEB	CHA-C1B-NB	-5.47	113.48	124.93
29	QK	201	PEB	CHA-C1B-NB	-5.47	113.48	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	W1	201	PEB	CHA-C1B-NB	-5.47	113.48	124.93
29	WK	201	PEB	CHA-C1B-NB	-5.47	113.48	124.93
29	JQ	203	PEB	CHB-C4B-NB	-5.47	121.23	128.83
29	g1	202	PEB	CHC-C4C-C3C	-5.47	121.00	130.34
29	gK	202	PEB	CHC-C4C-C3C	-5.47	121.00	130.34
29	jB	201	PEB	CHB-C4B-NB	-5.47	121.24	128.83
29	jM	201	PEB	CHB-C4B-NB	-5.47	121.24	128.83
31	SP	1001	CYC	OB-C4B-C3B	-5.47	122.10	128.04
29	KB	201	PEB	CHB-C4B-NB	-5.47	121.24	128.83
29	KM	201	PEB	CHB-C4B-NB	-5.47	121.24	128.83
29	O1	201	PEB	CHA-C1B-NB	-5.47	113.49	124.93
29	OK	201	PEB	CHA-C1B-NB	-5.47	113.49	124.93
29	H8	201	PEB	CHB-C4B-NB	-5.47	121.24	128.83
31	1P	1001	CYC	OB-C4B-C3B	-5.47	122.11	128.04
29	c1	202	PEB	CHC-C4C-C3C	-5.47	121.02	130.34
29	cK	202	PEB	CHC-C4C-C3C	-5.47	121.02	130.34
29	B8	201	PEB	CHB-C4B-NB	-5.46	121.25	128.83
31	MP	1001	CYC	OB-C4B-C3B	-5.46	122.11	128.04
29	f1	201	PEB	CHA-C1B-NB	-5.46	113.51	124.93
29	fK	201	PEB	CHA-C1B-NB	-5.46	113.51	124.93
29	YB	202	PEB	CHB-C4B-NB	-5.46	121.25	128.83
29	YM	202	PEB	CHB-C4B-NB	-5.46	121.25	128.83
29	S1	201	PEB	CHA-C1B-NB	-5.46	113.52	124.93
29	U1	202	PEB	CHA-C1B-NB	-5.46	113.52	124.93
29	SK	201	PEB	CHA-C1B-NB	-5.46	113.52	124.93
29	UK	202	PEB	CHA-C1B-NB	-5.46	113.52	124.93
29	i1	202	PEB	CHC-C4C-C3C	-5.46	121.03	130.34
29	iK	202	PEB	CHC-C4C-C3C	-5.46	121.03	130.34
31	QP	1001	CYC	OB-C4B-C3B	-5.46	122.12	128.04
31	BP	1001	CYC	OB-C4B-C3B	-5.46	122.12	128.04
30	wJ	304	PUB	CHB-C1C-NC	-5.46	121.26	128.83
31	HP	1001	CYC	OB-C4B-C3B	-5.46	122.12	128.04
29	j1	201	PEB	CHA-C1B-NB	-5.45	113.52	124.93
29	jK	201	PEB	CHA-C1B-NB	-5.45	113.52	124.93
29	U1	201	PEB	CHC-C4C-C3C	-5.45	121.04	130.34
29	UK	201	PEB	CHC-C4C-C3C	-5.45	121.04	130.34
29	d1	201	PEB	CHA-C1B-NB	-5.45	113.53	124.93
29	dK	201	PEB	CHA-C1B-NB	-5.45	113.53	124.93
29	e1	202	PEB	CHC-C4C-C3C	-5.45	121.04	130.34
29	eK	202	PEB	CHC-C4C-C3C	-5.45	121.04	130.34
29	Z1	202	PEB	CHA-C1B-NB	-5.45	113.53	124.93
29	ZK	202	PEB	CHA-C1B-NB	-5.45	113.53	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	DP	1001	CYC	OB-C4B-C3B	-5.45	122.12	128.04
29	JG	203	PEB	CHB-C4B-NB	-5.45	121.27	128.83
29	F5	201	PEB	CHB-C4B-NB	-5.45	121.27	128.83
29	F8	201	PEB	CHB-C4B-NB	-5.45	121.27	128.83
29	G5	201	PEB	CHB-C4B-NB	-5.45	121.27	128.83
29	DQ	203	PEB	CHB-C4B-NB	-5.45	121.27	128.83
31	kP	1001	CYC	OB-C4B-C3B	-5.44	122.13	128.04
31	fP	1001	CYC	OB-C4B-C3B	-5.44	122.13	128.04
29	TF	201	PEB	CHB-C4B-NB	-5.44	121.28	128.83
29	V1	202	PEB	CHC-C4C-C3C	-5.44	121.05	130.34
29	VK	202	PEB	CHC-C4C-C3C	-5.44	121.05	130.34
29	L5	201	PEB	CHB-C4B-NB	-5.44	121.28	128.83
31	FP	1001	CYC	OB-C4B-C3B	-5.44	122.14	128.04
29	k1	202	PEB	CHC-C4C-C3C	-5.44	121.06	130.34
29	kK	202	PEB	CHC-C4C-C3C	-5.44	121.06	130.34
29	G8	201	PEB	CHB-C4B-NB	-5.44	121.29	128.83
29	j1	203	PEB	CHC-C4C-C3C	-5.43	121.07	130.34
29	jK	203	PEB	CHC-C4C-C3C	-5.43	121.07	130.34
31	nP	1001	CYC	OB-C4B-C3B	-5.43	122.14	128.04
31	wP	1001	CYC	OB-C4B-C3B	-5.43	122.14	128.04
29	H5	201	PEB	CHB-C4B-NB	-5.43	121.29	128.83
31	sP	1001	CYC	OB-C4B-C3B	-5.43	122.15	128.04
29	FG	203	PEB	CHB-C4B-NB	-5.43	121.30	128.83
31	UP	1001	CYC	OB-C4B-C3B	-5.43	122.15	128.04
31	jP	1001	CYC	OB-C4B-C3B	-5.43	122.15	128.04
29	B5	201	PEB	CHB-C4B-NB	-5.42	121.30	128.83
30	wL	304	PUB	CHB-C1C-NC	-5.42	121.31	128.83
29	DG	203	PEB	CHB-C4B-NB	-5.42	121.31	128.83
29	HG	203	PEB	CHB-C4B-NB	-5.42	121.31	128.83
31	qP	1001	CYC	OB-C4B-C3B	-5.42	122.16	128.04
31	uP	1001	CYC	OB-C4B-C3B	-5.42	122.16	128.04
29	WF	201	PEB	CMB-C2B-C1B	5.42	133.40	125.06
29	WI	201	PEB	CMB-C2B-C1B	5.42	133.40	125.06
29	bF	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
29	bI	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
29	SF	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
29	hF	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
29	SI	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
29	hI	201	PEB	CMB-C2B-C1B	5.41	133.40	125.06
31	hP	1001	CYC	OB-C4B-C3B	-5.41	122.17	128.04
29	LG	203	PEB	CHB-C4B-NB	-5.41	121.32	128.83
29	HQ	203	PEB	CHB-C4B-NB	-5.41	121.32	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZF	201	PEB	CMB-C2B-C1B	5.41	133.39	125.06
29	ZI	201	PEB	CMB-C2B-C1B	5.41	133.39	125.06
29	FQ	203	PEB	CHB-C4B-NB	-5.41	121.33	128.83
31	oP	1001	CYC	OB-C4B-C3B	-5.41	122.17	128.04
31	XP	1001	CYC	OB-C4B-C3B	-5.41	122.17	128.04
29	BQ	203	PEB	CHB-C4B-NB	-5.40	121.33	128.83
29	fF	201	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	fI	201	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	BG	203	PEB	CHB-C4B-NB	-5.40	121.33	128.83
29	QF	201	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	UF	202	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	QI	201	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	UI	202	PEB	CMB-C2B-C1B	5.40	133.38	125.06
29	A1	301	PEB	CHB-C4B-NB	-5.40	121.34	128.83
29	L8	201	PEB	CHB-C4B-NB	-5.40	121.34	128.83
29	AF	304	PEB	CHB-C4B-NB	-5.40	121.34	128.83
29	AI	304	PEB	CHB-C4B-NB	-5.40	121.34	128.83
29	AK	301	PEB	CHB-C4B-NB	-5.40	121.34	128.83
29	D3	202	PEB	CHB-C4B-NB	-5.39	121.34	128.83
29	OF	201	PEB	CMB-C2B-C1B	5.39	133.36	125.06
29	OI	201	PEB	CMB-C2B-C1B	5.39	133.36	125.06
30	A7	302	PUB	CHB-C1C-NC	-5.39	121.35	128.83
30	A9	302	PUB	CHB-C1C-NC	-5.39	121.35	128.83
29	dF	202	PEB	CMB-C2B-C1B	5.39	133.36	125.06
29	dI	202	PEB	CMB-C2B-C1B	5.39	133.36	125.06
29	jF	201	PEB	CMB-C2B-C1B	5.39	133.36	125.06
29	jI	201	PEB	CMB-C2B-C1B	5.39	133.36	125.06
31	OP	1001	CYC	OB-C4B-C3B	-5.39	122.20	128.04
31	IP	1001	CYC	OB-C4B-C3B	-5.38	122.20	128.04
31	H7	1001	CYC	CMA-C3A-C4A	5.37	133.33	125.06
31	H9	1001	CYC	CMA-C3A-C4A	5.37	133.33	125.06
29	lF	201	PEB	CMB-C2B-C1B	5.37	133.33	125.06
29	II	201	PEB	CMB-C2B-C1B	5.37	133.33	125.06
31	F9	1001	CYC	CMA-C3A-C4A	5.36	133.32	125.06
31	J9	1001	CYC	CMA-C3A-C4A	5.36	133.32	125.06
29	LQ	202	PEB	CHB-C4B-NB	-5.35	121.40	128.83
29	AB	303	PEB	CHB-C4B-NB	-5.35	121.40	128.83
30	A1	305	PUB	C1C-C2C-C3C	-5.35	100.86	106.78
30	AK	305	PUB	C1C-C2C-C3C	-5.35	100.86	106.78
31	J7	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
31	D7	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
31	L7	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	D9	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
31	WP	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
31	F7	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
29	A7	305	PEB	CHB-C4B-NB	-5.35	121.41	128.83
29	A9	305	PEB	CHB-C4B-NB	-5.35	121.41	128.83
29	AM	303	PEB	CHB-C4B-NB	-5.35	121.41	128.83
31	N7	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
31	N9	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
29	J5	201	PEB	CHA-C1B-NB	-5.35	113.75	124.93
29	J8	201	PEB	CHA-C1B-NB	-5.35	113.75	124.93
31	yP	1001	CYC	CMA-C3A-C4A	5.35	133.30	125.06
29	dJ	202	PEB	CHB-C4B-NB	-5.33	121.43	128.83
29	dL	202	PEB	CHB-C4B-NB	-5.33	121.43	128.83
29	BC	201	PEB	CHB-C4B-NB	-5.33	121.44	128.83
29	BE	201	PEB	CHB-C4B-NB	-5.33	121.44	128.83
29	nJ	202	PEB	CHB-C4B-NB	-5.33	121.44	128.83
29	nL	202	PEB	CHB-C4B-NB	-5.33	121.44	128.83
31	L9	1001	CYC	CMA-C3A-C4A	5.33	133.27	125.06
31	DF	1001	CYC	CHB-C4A-NA	-5.32	113.80	124.93
31	DI	1001	CYC	CHB-C4A-NA	-5.32	113.80	124.93
31	NF	1001	CYC	CHB-C4A-NA	-5.32	113.80	124.93
31	NI	1001	CYC	CHB-C4A-NA	-5.32	113.80	124.93
29	FC	201	PEB	CHB-C4B-NB	-5.32	121.45	128.83
29	FE	201	PEB	CHB-C4B-NB	-5.32	121.45	128.83
29	H4	201	PEB	CHA-C1B-NB	-5.32	113.81	124.93
31	HF	1001	CYC	CHB-C4A-NA	-5.32	113.81	124.93
31	HI	1001	CYC	CHB-C4A-NA	-5.32	113.81	124.93
31	tP	1001	CYC	C4D-CHA-C1A	5.31	135.16	128.81
30	yJ	302	PUB	CHB-C1C-NC	-5.31	121.46	128.83
30	yL	302	PUB	CHB-C1C-NC	-5.31	121.46	128.83
29	fJ	202	PEB	CHB-C4B-NB	-5.31	121.46	128.83
29	fL	202	PEB	CHB-C4B-NB	-5.31	121.46	128.83
29	WJ	201	PEB	CHB-C4B-NB	-5.31	121.46	128.83
29	WL	201	PEB	CHB-C4B-NB	-5.31	121.46	128.83
29	hJ	202	PEB	CHB-C4B-NB	-5.31	121.46	128.83
29	hL	202	PEB	CHB-C4B-NB	-5.31	121.46	128.83
31	eP	1001	CYC	C4D-CHA-C1A	5.31	135.15	128.81
29	FD	201	PEB	CHA-C1B-NB	-5.31	113.83	124.93
29	JD	201	PEB	CHA-C1B-NB	-5.31	113.83	124.93
29	F4	201	PEB	CHA-C1B-NB	-5.31	113.83	124.93
29	HD	201	PEB	CHA-C1B-NB	-5.31	113.83	124.93
31	CP	1001	CYC	C4D-CHA-C1A	5.30	135.14	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	MN	403	PUB	CHA-C1B-C2B	-5.30	121.29	130.34
30	MA	403	PUB	CHA-C1B-C2B	-5.30	121.30	130.34
29	lJ	202	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	sJ	203	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	lL	202	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	sL	203	PEB	CHB-C4B-NB	-5.30	121.47	128.83
31	JF	1001	CYC	CHB-C4A-NA	-5.30	113.84	124.93
31	JI	1001	CYC	CHB-C4A-NA	-5.30	113.84	124.93
29	AJ	203	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	uJ	201	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	AL	203	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	uL	201	PEB	CHB-C4B-NB	-5.30	121.47	128.83
29	BJ	202	PEB	CHB-C4B-NB	-5.30	121.48	128.83
29	PJ	202	PEB	CHB-C4B-NB	-5.30	121.48	128.83
29	BL	202	PEB	CHB-C4B-NB	-5.30	121.48	128.83
29	PL	202	PEB	CHB-C4B-NB	-5.30	121.48	128.83
31	FF	1001	CYC	CHB-C4A-NA	-5.30	113.85	124.93
31	FI	1001	CYC	CHB-C4A-NA	-5.30	113.85	124.93
29	DD	201	PEB	CHA-C1B-NB	-5.30	113.85	124.93
29	BD	201	PEB	CHA-C1B-NB	-5.30	113.85	124.93
29	i7	202	PEB	CHC-C1D-ND	-5.30	107.80	113.95
29	i9	202	PEB	CHC-C1D-ND	-5.30	107.80	113.95
29	J4	201	PEB	CHA-C1B-NB	-5.30	113.85	124.93
29	B4	201	PEB	CHA-C1B-NB	-5.30	113.86	124.93
31	LF	1001	CYC	CHB-C4A-NA	-5.29	113.86	124.93
31	LI	1001	CYC	CHB-C4A-NA	-5.29	113.86	124.93
29	NJ	202	PEB	CHB-C4B-NB	-5.29	121.48	128.83
29	NL	202	PEB	CHB-C4B-NB	-5.29	121.48	128.83
30	QB	201	PUB	OD-C4D-C3D	-5.29	122.30	128.04
30	QM	201	PUB	OD-C4D-C3D	-5.29	122.30	128.04
29	jJ	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	jL	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	ZJ	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	ZL	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	e7	202	PEB	CHC-C1D-ND	-5.29	107.80	113.95
29	e9	202	PEB	CHC-C1D-ND	-5.29	107.80	113.95
29	DO	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	bJ	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	bL	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	D4	201	PEB	CHA-C1B-NB	-5.29	113.87	124.93
29	RJ	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83
29	RL	202	PEB	CHB-C4B-NB	-5.29	121.49	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	lP	1001	CYC	C4D-CHA-C1A	5.29	135.12	128.81
29	HC	201	PEB	CHB-C4B-NB	-5.28	121.50	128.83
29	HE	201	PEB	CHB-C4B-NB	-5.28	121.50	128.83
29	rJ	202	PEB	CHB-C4B-NB	-5.28	121.50	128.83
29	rL	202	PEB	CHB-C4B-NB	-5.28	121.50	128.83
31	KP	1001	CYC	C4D-CHA-C1A	5.28	135.12	128.81
31	PP	1001	CYC	C4D-CHA-C1A	5.28	135.12	128.81
29	LD	201	PEB	CHA-C1B-NB	-5.28	113.88	124.93
29	JC	201	PEB	CHB-C4B-NB	-5.28	121.50	128.83
29	JE	201	PEB	CHB-C4B-NB	-5.28	121.50	128.83
29	L4	201	PEB	CHA-C1B-NB	-5.28	113.89	124.93
29	LC	201	PEB	CHB-C4B-NB	-5.28	121.51	128.83
29	LE	201	PEB	CHB-C4B-NB	-5.28	121.51	128.83
29	FA	202	PEB	CHB-C4B-NB	-5.28	121.51	128.83
29	pJ	202	PEB	CHB-C4B-NB	-5.28	121.51	128.83
29	pL	202	PEB	CHB-C4B-NB	-5.28	121.51	128.83
29	FN	202	PEB	CHB-C4B-NB	-5.28	121.51	128.83
31	AP	1001	CYC	C4D-CHA-C1A	5.28	135.11	128.81
30	MN	403	PUB	C1C-C2C-C3C	-5.27	100.94	106.78
29	g1	202	PEB	CHB-C4B-NB	-5.27	121.51	128.83
29	gK	202	PEB	CHB-C4B-NB	-5.27	121.51	128.83
31	RP	1001	CYC	C4D-CHA-C1A	5.27	135.11	128.81
29	Z1	201	PEB	CHB-C4B-NB	-5.27	121.51	128.83
29	ZK	201	PEB	CHB-C4B-NB	-5.27	121.51	128.83
29	HJ	201	PEB	CHB-C4B-NB	-5.27	121.51	128.83
29	HL	201	PEB	CHB-C4B-NB	-5.27	121.51	128.83
29	P7	202	PEB	CHC-C1D-ND	-5.27	107.83	113.95
29	P9	202	PEB	CHC-C1D-ND	-5.27	107.83	113.95
29	DC	201	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	DE	201	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	IJ	203	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	IL	203	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	JA	202	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	FJ	202	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	FL	202	PEB	CHB-C4B-NB	-5.27	121.52	128.83
29	JN	202	PEB	CHB-C4B-NB	-5.27	121.52	128.83
31	iP	1001	CYC	C4D-CHA-C1A	5.27	135.10	128.81
31	mP	1001	CYC	C4D-CHA-C1A	5.27	135.10	128.81
31	TP	1001	CYC	C4D-CHA-C1A	5.27	135.10	128.81
31	EP	1001	CYC	C4D-CHA-C1A	5.26	135.10	128.81
31	rP	1001	CYC	C4D-CHA-C1A	5.26	135.10	128.81
29	V7	202	PEB	CHC-C1D-ND	-5.26	107.84	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	V9	202	PEB	CHC-C1D-ND	-5.26	107.84	113.95
29	LA	202	PEB	CHB-C4B-NB	-5.26	121.53	128.83
29	JJ	202	PEB	CHB-C4B-NB	-5.26	121.53	128.83
29	JL	202	PEB	CHB-C4B-NB	-5.26	121.53	128.83
29	LN	202	PEB	CHB-C4B-NB	-5.26	121.53	128.83
31	JP	1001	CYC	C4D-CHA-C1A	5.26	135.09	128.81
31	GP	1001	CYC	C4D-CHA-C1A	5.26	135.09	128.81
31	NP	1001	CYC	C4D-CHA-C1A	5.26	135.09	128.81
29	V1	202	PEB	CHB-C4B-NB	-5.26	121.54	128.83
29	VK	202	PEB	CHB-C4B-NB	-5.26	121.54	128.83
29	a7	202	PEB	CHC-C1D-ND	-5.26	107.84	113.95
29	a9	202	PEB	CHC-C1D-ND	-5.26	107.84	113.95
29	TJ	202	PEB	CHB-C4B-NB	-5.26	121.54	128.83
29	TL	202	PEB	CHB-C4B-NB	-5.26	121.54	128.83
29	k7	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	k9	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	HA	202	PEB	CHB-C4B-NB	-5.25	121.54	128.83
29	XJ	202	PEB	CHB-C4B-NB	-5.25	121.54	128.83
29	XL	202	PEB	CHB-C4B-NB	-5.25	121.54	128.83
29	HN	202	PEB	CHB-C4B-NB	-5.25	121.54	128.83
29	zJ	501	PEB	CHB-C4B-NB	-5.25	121.54	128.83
29	c1	202	PEB	CHB-C4B-NB	-5.25	121.55	128.83
29	cK	202	PEB	CHB-C4B-NB	-5.25	121.55	128.83
29	DA	202	PEB	CHB-C4B-NB	-5.25	121.55	128.83
29	DN	202	PEB	CHB-C4B-NB	-5.25	121.55	128.83
29	c7	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	m7	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	c9	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	m9	202	PEB	CHC-C1D-ND	-5.25	107.85	113.95
29	zL	501	PEB	CHB-C4B-NB	-5.24	121.55	128.83
31	RP	1001	CYC	CMA-C3A-C4A	5.24	133.14	125.06
29	P1	202	PEB	CHB-C4B-NB	-5.24	121.56	128.83
29	BA	202	PEB	CHB-C4B-NB	-5.24	121.56	128.83
29	PK	202	PEB	CHB-C4B-NB	-5.24	121.56	128.83
29	BN	202	PEB	CHB-C4B-NB	-5.24	121.56	128.83
31	pP	1001	CYC	C4D-CHA-C1A	5.24	135.07	128.81
29	U1	201	PEB	CHB-C4B-NB	-5.24	121.56	128.83
29	UK	201	PEB	CHB-C4B-NB	-5.24	121.56	128.83
31	vP	1001	CYC	C4D-CHA-C1A	5.24	135.06	128.81
29	g7	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	g9	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	a1	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aK	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	i1	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	iK	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
30	MA	403	PUB	C1C-C2C-C3C	-5.23	100.99	106.78
29	j1	203	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	jK	203	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	T7	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	T9	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	Y7	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	Y9	202	PEB	CHC-C1D-ND	-5.23	107.87	113.95
29	e1	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	eK	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	R1	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
29	RK	202	PEB	CHB-C4B-NB	-5.23	121.57	128.83
31	PP	1001	CYC	CMA-C3A-C4A	5.23	133.12	125.06
31	CP	1001	CYC	CMA-C3A-C4A	5.22	133.11	125.06
31	gP	1001	CYC	C4D-CHA-C1A	5.22	135.05	128.81
29	TR	201	PEB	OA-C1A-C2A	-5.22	122.02	126.17
29	AM	302	PEB	CHB-C4B-NB	-5.22	121.59	128.83
29	R7	202	PEB	CHC-C1D-ND	-5.22	107.89	113.95
29	R9	202	PEB	CHC-C1D-ND	-5.22	107.89	113.95
29	JA	201	PEB	C4B-C3B-C2B	-5.22	101.01	106.78
29	JN	201	PEB	C4B-C3B-C2B	-5.22	101.01	106.78
31	KP	1001	CYC	CMA-C3A-C4A	5.22	133.10	125.06
29	MD	203	PEB	C1C-CHB-C4B	-5.22	122.58	128.81
29	AB	302	PEB	CHB-C4B-NB	-5.22	121.59	128.83
29	k1	202	PEB	CHB-C4B-NB	-5.21	121.60	128.83
29	kK	202	PEB	CHB-C4B-NB	-5.21	121.60	128.83
29	ED	202	PEB	C1C-CHB-C4B	-5.21	122.59	128.81
30	BB	302	PUB	CHC-C1D-ND	-5.21	107.13	113.72
30	BM	302	PUB	CHC-C1D-ND	-5.21	107.13	113.72
29	HG	202	PEB	CHC-C4C-C3C	-5.21	121.45	130.34
29	HQ	202	PEB	CHC-C4C-C3C	-5.21	121.45	130.34
31	NP	1001	CYC	CMA-C3A-C4A	5.21	133.08	125.06
29	CD	203	PEB	C1C-CHB-C4B	-5.21	122.59	128.81
29	HA	201	PEB	C4B-C3B-C2B	-5.20	101.02	106.78
29	HN	201	PEB	C4B-C3B-C2B	-5.20	101.02	106.78
31	iP	1001	CYC	CMA-C3A-C4A	5.20	133.08	125.06
31	vP	1001	CYC	CMA-C3A-C4A	5.20	133.07	125.06
29	BG	202	PEB	CHC-C4C-C3C	-5.20	121.47	130.34
29	BQ	202	PEB	CHC-C4C-C3C	-5.20	121.47	130.34
31	TP	1001	CYC	CMA-C3A-C4A	5.20	133.07	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N2	203	PEB	OA-C1A-C2A	-5.20	122.04	126.17
29	G3	201	PEB	CMB-C2B-C1B	5.20	133.07	125.06
29	GO	201	PEB	CMB-C2B-C1B	5.20	133.07	125.06
29	E3	201	PEB	CMB-C2B-C1B	5.20	133.07	125.06
29	EO	201	PEB	CMB-C2B-C1B	5.20	133.07	125.06
29	I3	203	PEB	CMC-C3C-C2C	-5.19	115.15	124.94
29	IO	203	PEB	CMC-C3C-C2C	-5.19	115.15	124.94
31	eP	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
29	A3	201	PEB	CMB-C2B-C1B	5.19	133.06	125.06
29	AO	201	PEB	CMB-C2B-C1B	5.19	133.06	125.06
29	C4	203	PEB	C1C-CHB-C4B	-5.19	122.61	128.81
31	gP	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
31	rP	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
31	EP	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
29	FG	202	PEB	CHC-C4C-C3C	-5.19	121.48	130.34
29	FQ	202	PEB	CHC-C4C-C3C	-5.19	121.48	130.34
31	lP	1001	CYC	CMA-C3A-C4A	5.19	133.06	125.06
29	I3	201	PEB	CMB-C2B-C1B	5.19	133.06	125.06
29	IO	201	PEB	CMB-C2B-C1B	5.19	133.06	125.06
29	R2	201	PEB	OA-C1A-C2A	-5.19	122.05	126.17
29	J3	202	PEB	CMC-C3C-C2C	-5.19	115.16	124.94
29	JO	202	PEB	CMC-C3C-C2C	-5.19	115.16	124.94
29	E4	203	PEB	C1C-CHB-C4B	-5.19	122.61	128.81
29	K4	203	PEB	C1C-CHB-C4B	-5.19	122.61	128.81
31	cP	1001	CYC	CMA-C3A-C4A	5.19	133.05	125.06
29	NR	201	PEB	OA-C1A-C2A	-5.19	122.05	126.17
29	F3	202	PEB	CMC-C3C-C2C	-5.19	115.17	124.94
29	FO	202	PEB	CMC-C3C-C2C	-5.19	115.17	124.94
29	J5	202	PEB	CHB-C4B-NB	-5.18	121.64	128.83
29	RR	203	PEB	OA-C1A-C2A	-5.18	122.05	126.17
29	B3	202	PEB	CMC-C3C-C2C	-5.18	115.17	124.94
29	BO	202	PEB	CMC-C3C-C2C	-5.18	115.17	124.94
31	pP	1001	CYC	CMA-C3A-C4A	5.18	133.05	125.06
29	C3	201	PEB	CMB-C2B-C1B	5.18	133.04	125.06
29	CO	201	PEB	CMB-C2B-C1B	5.18	133.04	125.06
31	mP	1001	CYC	CMA-C3A-C4A	5.18	133.04	125.06
29	LA	201	PEB	C4B-C3B-C2B	-5.18	101.05	106.78
29	LN	201	PEB	C4B-C3B-C2B	-5.18	101.05	106.78
29	VR	201	PEB	OA-C1A-C2A	-5.18	122.06	126.17
29	DA	201	PEB	C4B-C3B-C2B	-5.18	101.05	106.78
29	DN	201	PEB	C4B-C3B-C2B	-5.18	101.05	106.78
29	K3	201	PEB	CMB-C2B-C1B	5.18	133.04	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KO	201	PEB	CMB-C2B-C1B	5.18	133.04	125.06
29	DG	202	PEB	CHC-C4C-C3C	-5.18	121.51	130.34
29	DQ	202	PEB	CHC-C4C-C3C	-5.18	121.51	130.34
31	cP	1001	CYC	C4D-CHA-C1A	5.18	134.99	128.81
29	FA	202	PEB	C1C-CHB-C4B	5.18	134.99	128.81
29	FN	202	PEB	C1C-CHB-C4B	5.18	134.99	128.81
31	tP	1001	CYC	CMA-C3A-C4A	5.18	133.04	125.06
31	JP	1001	CYC	CMA-C3A-C4A	5.17	133.03	125.06
29	G4	203	PEB	C1C-CHB-C4B	-5.17	122.63	128.81
29	XR	201	PEB	OA-C1A-C2A	-5.17	122.06	126.17
29	J8	202	PEB	CHB-C4B-NB	-5.17	121.65	128.83
29	H3	202	PEB	CMC-C3C-C2C	-5.17	115.19	124.94
29	HO	202	PEB	CMC-C3C-C2C	-5.17	115.19	124.94
29	BA	201	PEB	C4B-C3B-C2B	-5.17	101.06	106.78
29	FA	201	PEB	C4B-C3B-C2B	-5.17	101.06	106.78
29	BN	201	PEB	C4B-C3B-C2B	-5.17	101.06	106.78
29	FN	201	PEB	C4B-C3B-C2B	-5.17	101.06	106.78
29	RR	201	PEB	OA-C1A-C2A	-5.17	122.06	126.17
29	GD	203	PEB	C1C-CHB-C4B	-5.17	122.64	128.81
29	P2	202	PEB	OA-C1A-C2A	-5.17	122.06	126.17
29	JG	202	PEB	CHC-C4C-C3C	-5.16	121.53	130.34
29	JQ	202	PEB	CHC-C4C-C3C	-5.16	121.53	130.34
31	AP	1001	CYC	CMA-C3A-C4A	5.16	133.01	125.06
29	VR	203	PEB	OA-C1A-C2A	-5.16	122.07	126.17
29	KD	203	PEB	C1C-CHB-C4B	-5.16	122.65	128.81
29	V2	201	PEB	OA-C1A-C2A	-5.16	122.07	126.17
29	T2	203	PEB	OA-C1A-C2A	-5.16	122.07	126.17
29	LA	202	PEB	C1C-CHB-C4B	5.16	134.97	128.81
29	LN	202	PEB	C1C-CHB-C4B	5.16	134.97	128.81
29	ID	203	PEB	C1C-CHB-C4B	-5.15	122.65	128.81
29	JA	202	PEB	C1C-CHB-C4B	5.15	134.96	128.81
29	JN	202	PEB	C1C-CHB-C4B	5.15	134.96	128.81
29	LG	202	PEB	CHC-C4C-C3C	-5.15	121.55	130.34
29	LQ	201	PEB	CHC-C4C-C3C	-5.15	121.55	130.34
29	HA	202	PEB	C1C-CHB-C4B	5.15	134.96	128.81
29	HN	202	PEB	C1C-CHB-C4B	5.15	134.96	128.81
29	N2	201	PEB	OA-C1A-C2A	-5.15	122.08	126.17
29	XR	203	PEB	OA-C1A-C2A	-5.15	122.08	126.17
29	V2	203	PEB	OA-C1A-C2A	-5.15	122.08	126.17
29	T2	201	PEB	OA-C1A-C2A	-5.14	122.08	126.17
31	GP	1001	CYC	CMA-C3A-C4A	5.14	132.98	125.06
29	BA	202	PEB	C1C-CHB-C4B	5.14	134.95	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BN	202	PEB	C1C-CHB-C4B	5.14	134.95	128.81
29	NR	203	PEB	OA-C1A-C2A	-5.14	122.09	126.17
29	ZB	201	PEB	C1C-CHB-C4B	-5.13	122.67	128.81
29	ZM	201	PEB	C1C-CHB-C4B	-5.13	122.67	128.81
29	R2	203	PEB	OA-C1A-C2A	-5.13	122.09	126.17
29	DA	202	PEB	C1C-CHB-C4B	5.13	134.93	128.81
29	FB	201	PEB	C1C-CHB-C4B	-5.13	122.68	128.81
29	FM	201	PEB	C1C-CHB-C4B	-5.13	122.68	128.81
29	DN	202	PEB	C1C-CHB-C4B	5.13	134.93	128.81
29	mB	201	PEB	C1C-CHB-C4B	-5.13	122.69	128.81
29	mM	201	PEB	C1C-CHB-C4B	-5.13	122.69	128.81
31	DK	1001	CYC	C4D-CHA-C1A	5.13	134.93	128.81
29	LA	201	PEB	CHB-C4B-NB	-5.12	121.72	128.83
29	LN	201	PEB	CHB-C4B-NB	-5.12	121.72	128.83
29	JA	201	PEB	CHB-C4B-NB	-5.12	121.72	128.83
29	JN	201	PEB	CHB-C4B-NB	-5.12	121.72	128.83
29	PR	202	PEB	OA-C1A-C2A	-5.12	122.10	126.17
31	D1	1001	CYC	C4D-CHA-C1A	5.12	134.92	128.81
29	JB	201	PEB	C1C-CHB-C4B	-5.12	122.70	128.81
29	TB	201	PEB	C1C-CHB-C4B	-5.12	122.70	128.81
29	JM	201	PEB	C1C-CHB-C4B	-5.12	122.70	128.81
29	TM	201	PEB	C1C-CHB-C4B	-5.12	122.70	128.81
31	H1	1001	CYC	C4D-CHA-C1A	5.12	134.92	128.81
29	BA	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	BN	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	XB	201	PEB	C1C-CHB-C4B	-5.11	122.70	128.81
29	XM	201	PEB	C1C-CHB-C4B	-5.11	122.70	128.81
29	DA	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	DN	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	FA	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	FN	201	PEB	CHB-C4B-NB	-5.11	121.73	128.83
29	DB	201	PEB	C1C-CHB-C4B	-5.11	122.70	128.81
29	DM	201	PEB	C1C-CHB-C4B	-5.11	122.70	128.81
29	cB	201	PEB	C1C-CHB-C4B	-5.10	122.71	128.81
29	cM	201	PEB	C1C-CHB-C4B	-5.10	122.71	128.81
29	JA	202	PEB	CHC-C4C-C3C	-5.10	121.63	130.34
29	JN	202	PEB	CHC-C4C-C3C	-5.10	121.63	130.34
29	LB	201	PEB	C1C-CHB-C4B	-5.10	122.71	128.81
29	LM	201	PEB	C1C-CHB-C4B	-5.10	122.71	128.81
29	TR	203	PEB	OA-C1A-C2A	-5.10	122.12	126.17
31	D1	1003	CYC	CAB-C3B-C4B	5.10	129.44	121.38
29	H1	1002	PEB	C3D-C4D-ND	5.10	117.27	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HA	201	PEB	CHB-C4B-NB	-5.10	121.75	128.83
29	HN	201	PEB	CHB-C4B-NB	-5.10	121.75	128.83
29	FA	202	PEB	CHC-C4C-C3C	-5.10	121.64	130.34
29	FN	202	PEB	CHC-C4C-C3C	-5.10	121.64	130.34
31	I1	1001	CYC	CAB-C3B-C4B	5.10	129.43	121.38
29	RB	201	PEB	C1C-CHB-C4B	-5.10	122.72	128.81
29	RM	201	PEB	C1C-CHB-C4B	-5.10	122.72	128.81
31	HK	1001	CYC	C4D-CHA-C1A	5.10	134.90	128.81
29	e2	402	PEB	OA-C1A-C2A	-5.09	122.12	126.17
29	NK	1002	PEB	C3D-C4D-ND	5.09	117.25	107.26
29	L1	1002	PEB	C3D-C4D-ND	5.09	117.25	107.26
29	LK	1002	PEB	C3D-C4D-ND	5.09	117.25	107.26
29	gB	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
29	gM	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
31	E1	1001	CYC	CAB-C3B-C4B	5.09	129.42	121.38
29	kB	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
29	kM	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
31	M1	1001	CYC	CAB-C3B-C4B	5.09	129.41	121.38
31	MK	1001	CYC	CAB-C3B-C4B	5.09	129.41	121.38
29	F1	1002	PEB	C3D-C4D-ND	5.09	117.24	107.26
29	FK	1002	PEB	C3D-C4D-ND	5.09	117.24	107.26
31	N1	1001	CYC	C4D-CHA-C1A	5.09	134.89	128.81
29	iB	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
29	iM	201	PEB	C1C-CHB-C4B	-5.09	122.73	128.81
29	DK	1002	PEB	C3D-C4D-ND	5.08	117.23	107.26
31	F1	1001	CYC	C4D-CHA-C1A	5.08	134.88	128.81
31	FK	1001	CYC	C4D-CHA-C1A	5.08	134.88	128.81
31	NK	1001	CYC	C4D-CHA-C1A	5.08	134.88	128.81
29	NB	201	PEB	C1C-CHB-C4B	-5.08	122.74	128.81
29	NM	201	PEB	C1C-CHB-C4B	-5.08	122.74	128.81
31	GK	1001	CYC	CAB-C3B-C4B	5.08	129.41	121.38
31	J1	1001	CYC	C4D-CHA-C1A	5.08	134.88	128.81
31	JK	1001	CYC	C4D-CHA-C1A	5.08	134.88	128.81
29	HA	202	PEB	CHC-C4C-C3C	-5.08	121.67	130.34
29	HN	202	PEB	CHC-C4C-C3C	-5.08	121.67	130.34
29	HK	1002	PEB	C3D-C4D-ND	5.08	117.23	107.26
31	K1	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
31	KK	1001	CYC	CAB-C3B-C4B	5.08	129.40	121.38
29	X2	202	PEB	OA-C1A-C2A	-5.08	122.14	126.17
29	eB	201	PEB	C1C-CHB-C4B	-5.08	122.75	128.81
29	eM	201	PEB	C1C-CHB-C4B	-5.08	122.75	128.81
31	IK	1001	CYC	CAB-C3B-C4B	5.07	129.39	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N1	1002	PEB	C3D-C4D-ND	5.07	117.22	107.26
31	L1	1001	CYC	C4D-CHA-C1A	5.07	134.87	128.81
31	LK	1001	CYC	C4D-CHA-C1A	5.07	134.87	128.81
29	BA	202	PEB	CHC-C4C-C3C	-5.07	121.69	130.34
29	BN	202	PEB	CHC-C4C-C3C	-5.07	121.69	130.34
29	VB	201	PEB	C1C-CHB-C4B	-5.07	122.75	128.81
29	VM	201	PEB	C1C-CHB-C4B	-5.07	122.75	128.81
29	D1	1002	PEB	C3D-C4D-ND	5.07	117.21	107.26
29	LA	202	PEB	CHC-C4C-C3C	-5.07	121.69	130.34
29	LN	202	PEB	CHC-C4C-C3C	-5.07	121.69	130.34
29	J1	1002	PEB	C3D-C4D-ND	5.07	117.20	107.26
29	JK	1002	PEB	C3D-C4D-ND	5.07	117.20	107.26
31	EK	1001	CYC	CAB-C3B-C4B	5.07	129.38	121.38
31	CK	1001	CYC	CAB-C3B-C4B	5.07	129.38	121.38
29	DA	202	PEB	CHC-C4C-C3C	-5.06	121.70	130.34
29	DN	202	PEB	CHC-C4C-C3C	-5.06	121.70	130.34
31	C1	1001	CYC	CAB-C3B-C4B	5.06	129.38	121.38
29	HB	201	PEB	C1C-CHB-C4B	-5.06	122.76	128.81
29	HM	201	PEB	C1C-CHB-C4B	-5.06	122.76	128.81
29	PB	201	PEB	C1C-CHB-C4B	-5.06	122.76	128.81
29	PM	201	PEB	C1C-CHB-C4B	-5.06	122.76	128.81
29	J5	202	PEB	CMB-C2B-C1B	5.06	132.86	125.06
29	J8	202	PEB	CMB-C2B-C1B	5.06	132.86	125.06
29	MG	405	PEB	CHA-C1B-NB	-5.06	114.35	124.93
29	ZB	202	PEB	CHC-C1D-ND	-5.06	108.08	113.95
29	ZM	202	PEB	CHC-C1D-ND	-5.06	108.08	113.95
29	MQ	407	PEB	CHA-C1B-NB	-5.06	114.36	124.93
29	MR	202	PEB	C1C-CHB-C4B	-5.05	122.77	128.81
29	U2	201	PEB	CHA-C1B-NB	-5.05	114.37	124.93
31	YP	1000	CYC	CAB-C3B-C4B	5.05	129.35	121.38
31	1P	1002	CYC	CAB-C3B-C4B	5.04	129.35	121.38
29	M2	201	PEB	CHA-C1B-NB	-5.04	114.39	124.93
29	KB	203	PEB	CHC-C1D-ND	-5.04	108.10	113.95
29	KM	203	PEB	CHC-C1D-ND	-5.04	108.10	113.95
31	sP	1001	CYC	CHB-C4A-C3A	5.04	137.86	124.90
29	iB	202	PEB	CHC-C1D-ND	-5.04	108.10	113.95
29	iM	202	PEB	CHC-C1D-ND	-5.04	108.10	113.95
29	UR	201	PEB	CHA-C1B-NB	-5.04	114.40	124.93
31	QP	1001	CYC	CHB-C4A-C3A	5.04	137.85	124.90
29	JB	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	YB	201	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	kB	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JM	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	YM	201	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	kM	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95
31	fP	1001	CYC	CHB-C4A-C3A	5.03	137.84	124.90
29	TB	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	TM	202	PEB	CHC-C1D-ND	-5.03	108.10	113.95
31	DP	1001	CYC	CHB-C4A-C3A	5.03	137.84	124.90
29	aB	203	PEB	CHC-C1D-ND	-5.03	108.10	113.95
29	aM	203	PEB	CHC-C1D-ND	-5.03	108.10	113.95
31	lP	1001	CYC	CHB-C4A-C3A	5.03	137.84	124.90
31	qP	1001	CYC	CHB-C4A-C3A	5.03	137.83	124.90
29	Q2	201	PEB	CHA-C1B-NB	-5.03	114.41	124.93
29	QB	202	PEB	CHC-C1D-ND	-5.03	108.11	113.95
29	mB	202	PEB	CHC-C1D-ND	-5.03	108.11	113.95
29	QM	202	PEB	CHC-C1D-ND	-5.03	108.11	113.95
29	mM	202	PEB	CHC-C1D-ND	-5.03	108.11	113.95
31	nP	1001	CYC	CHB-C4A-C3A	5.03	137.82	124.90
29	QR	201	PEB	CHA-C1B-NB	-5.02	114.42	124.93
31	wP	1001	CYC	CHB-C4A-C3A	5.02	137.82	124.90
31	XP	1001	CYC	CHB-C4A-C3A	5.02	137.82	124.90
31	hP	1001	CYC	CHB-C4A-C3A	5.02	137.82	124.90
29	HB	202	PEB	CHC-C1D-ND	-5.02	108.11	113.95
29	HM	202	PEB	CHC-C1D-ND	-5.02	108.11	113.95
31	IP	1001	CYC	CHB-C4A-C3A	5.02	137.81	124.90
29	gB	202	PEB	CHC-C1D-ND	-5.02	108.12	113.95
29	gM	202	PEB	CHC-C1D-ND	-5.02	108.12	113.95
31	BP	1001	CYC	CHB-C4A-C3A	5.02	137.81	124.90
29	MR	201	PEB	CHA-C1B-NB	-5.02	114.43	124.93
29	xL	301	PEB	OA-C1A-C2A	-5.02	122.18	126.17
31	HP	1001	CYC	CHB-C4A-C3A	5.02	137.80	124.90
31	oP	1001	CYC	CHB-C4A-C3A	5.02	137.80	124.90
29	FB	202	PEB	CHC-C1D-ND	-5.02	108.12	113.95
29	FM	202	PEB	CHC-C1D-ND	-5.02	108.12	113.95
31	kP	1001	CYC	CHB-C4A-C3A	5.02	137.80	124.90
31	FP	1001	CYC	CHB-C4A-C3A	5.01	137.79	124.90
29	RB	202	PEB	CHC-C1D-ND	-5.01	108.13	113.95
29	RM	202	PEB	CHC-C1D-ND	-5.01	108.13	113.95
29	DB	202	PEB	CHC-C1D-ND	-5.01	108.13	113.95
29	DM	202	PEB	CHC-C1D-ND	-5.01	108.13	113.95
29	WR	201	PEB	CHA-C1B-NB	-5.01	114.46	124.93
29	O2	201	PEB	CHA-C1B-NB	-5.01	114.46	124.93
29	LB	202	PEB	CHC-C1D-ND	-5.01	108.14	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LM	202	PEB	CHC-C1D-ND	-5.01	108.14	113.95
29	C5	203	PEB	OA-C1A-C2A	-5.00	122.19	126.17
31	OP	1001	CYC	CHB-C4A-C3A	5.00	137.77	124.90
31	jP	1001	CYC	CHB-C4A-C3A	5.00	137.77	124.90
31	uP	1001	CYC	CHB-C4A-C3A	5.00	137.77	124.90
31	SP	1001	CYC	CHB-C4A-C3A	5.00	137.77	124.90
29	cB	202	PEB	CHC-C1D-ND	-5.00	108.14	113.95
29	cM	202	PEB	CHC-C1D-ND	-5.00	108.14	113.95
31	MP	1001	CYC	CHB-C4A-C3A	5.00	137.76	124.90
29	VB	202	PEB	CHC-C1D-ND	-5.00	108.14	113.95
29	VM	202	PEB	CHC-C1D-ND	-5.00	108.14	113.95
31	UP	1001	CYC	CHB-C4A-C3A	5.00	137.75	124.90
29	K5	203	PEB	OA-C1A-C2A	-5.00	122.20	126.17
29	K8	203	PEB	OA-C1A-C2A	-5.00	122.20	126.17
29	OR	201	PEB	CHA-C1B-NB	-5.00	114.48	124.93
29	A5	203	PEB	OA-C1A-C2A	-5.00	122.20	126.17
29	A8	203	PEB	OA-C1A-C2A	-5.00	122.20	126.17
29	U7	201	PEB	CMA-C2A-C1A	-5.00	101.64	112.40
29	U9	201	PEB	CMA-C2A-C1A	-5.00	101.64	112.40
29	F1	1002	PEB	CHC-C1D-ND	-4.99	108.15	113.95
29	FK	1002	PEB	CHC-C1D-ND	-4.99	108.15	113.95
29	Z7	201	PEB	CMA-C2A-C1A	-4.99	101.64	112.40
29	Z9	201	PEB	CMA-C2A-C1A	-4.99	101.64	112.40
29	W2	201	PEB	CHA-C1B-NB	-4.99	114.49	124.93
29	f7	201	PEB	CMA-C2A-C1A	-4.99	101.65	112.40
29	f9	201	PEB	CMA-C2A-C1A	-4.99	101.65	112.40
29	M3	201	PEB	CHC-C1D-ND	-4.99	108.16	113.95
29	MO	201	PEB	CHC-C1D-ND	-4.99	108.16	113.95
29	d7	201	PEB	CMA-C2A-C1A	-4.98	101.66	112.40
29	d9	201	PEB	CMA-C2A-C1A	-4.98	101.66	112.40
29	W7	201	PEB	CMA-C2A-C1A	-4.98	101.66	112.40
29	W9	201	PEB	CMA-C2A-C1A	-4.98	101.66	112.40
29	S7	201	PEB	CMA-C2A-C1A	-4.98	101.67	112.40
29	l7	201	PEB	CMA-C2A-C1A	-4.98	101.67	112.40
29	S9	201	PEB	CMA-C2A-C1A	-4.98	101.67	112.40
29	l9	201	PEB	CMA-C2A-C1A	-4.98	101.67	112.40
29	j7	201	PEB	CMA-C2A-C1A	-4.98	101.68	112.40
29	j9	201	PEB	CMA-C2A-C1A	-4.98	101.68	112.40
29	h7	201	PEB	CMA-C2A-C1A	-4.97	101.68	112.40
29	h9	201	PEB	CMA-C2A-C1A	-4.97	101.68	112.40
29	b7	201	PEB	CMA-C2A-C1A	-4.97	101.68	112.40
29	b9	201	PEB	CMA-C2A-C1A	-4.97	101.68	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L1	1002	PEB	CHC-C1D-ND	-4.97	108.17	113.95
29	LK	1002	PEB	CHC-C1D-ND	-4.97	108.17	113.95
29	O7	201	PEB	CMA-C2A-C1A	-4.97	101.69	112.40
29	O9	201	PEB	CMA-C2A-C1A	-4.97	101.69	112.40
29	wL	301	PEB	OA-C1A-C2A	-4.97	122.22	126.17
29	MN	404	PEB	CHA-C1B-NB	-4.97	114.54	124.93
29	MA	404	PEB	CHA-C1B-NB	-4.97	114.54	124.93
30	A7	303	PUB	CHB-C1C-NC	-4.97	121.94	128.83
30	A9	303	PUB	CHB-C1C-NC	-4.97	121.94	128.83
29	xJ	301	PEB	OA-C1A-C2A	-4.96	122.23	126.17
29	Q7	201	PEB	CMA-C2A-C1A	-4.96	101.71	112.40
29	Q9	201	PEB	CMA-C2A-C1A	-4.96	101.71	112.40
29	JB	201	PEB	OA-C1A-C2A	-4.96	122.23	126.17
29	JM	201	PEB	OA-C1A-C2A	-4.96	122.23	126.17
29	M4	203	PEB	C1C-CHB-C4B	-4.96	122.89	128.81
29	AF	305	PEB	CHC-C4C-C3C	-4.96	121.88	130.34
29	AI	305	PEB	CHC-C4C-C3C	-4.96	121.88	130.34
29	HK	1002	PEB	CHC-C1D-ND	-4.95	108.20	113.95
29	NK	1002	PEB	CHC-C1D-ND	-4.95	108.20	113.95
29	I5	203	PEB	OA-C1A-C2A	-4.95	122.24	126.17
29	I8	203	PEB	OA-C1A-C2A	-4.95	122.24	126.17
29	N1	1002	PEB	CHC-C1D-ND	-4.95	108.20	113.95
29	H1	1002	PEB	CHC-C1D-ND	-4.94	108.20	113.95
29	GG	202	PEB	CHC-C1D-ND	-4.94	108.20	113.95
29	GQ	202	PEB	CHC-C1D-ND	-4.94	108.20	113.95
31	DF	1001	CYC	C1B-C2B-C3B	-4.94	102.71	107.87
31	DI	1001	CYC	C1B-C2B-C3B	-4.94	102.71	107.87
29	N3	201	PEB	CHC-C1D-ND	-4.94	108.21	113.95
29	RB	201	PEB	OA-C1A-C2A	-4.94	122.24	126.17
29	gB	201	PEB	OA-C1A-C2A	-4.94	122.24	126.17
29	RM	201	PEB	OA-C1A-C2A	-4.94	122.24	126.17
29	gM	201	PEB	OA-C1A-C2A	-4.94	122.24	126.17
29	IG	202	PEB	CHC-C1D-ND	-4.94	108.21	113.95
29	IQ	202	PEB	CHC-C1D-ND	-4.94	108.21	113.95
30	MG	403	PUB	OD-C4D-ND	-4.94	118.61	125.93
29	J1	1002	PEB	CHC-C1D-ND	-4.94	108.21	113.95
29	JK	1002	PEB	CHC-C1D-ND	-4.94	108.21	113.95
29	XB	201	PEB	OA-C1A-C2A	-4.94	122.25	126.17
29	XM	201	PEB	OA-C1A-C2A	-4.94	122.25	126.17
29	wJ	301	PEB	OA-C1A-C2A	-4.94	122.25	126.17
29	cB	201	PEB	OA-C1A-C2A	-4.93	122.25	126.17
29	cM	201	PEB	OA-C1A-C2A	-4.93	122.25	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	xJ	305	PUB	OD-C4D-C3D	-4.93	122.69	128.04
29	PB	201	PEB	CHB-C4B-NB	-4.93	121.99	128.83
29	PM	201	PEB	CHB-C4B-NB	-4.93	121.99	128.83
29	CG	202	PEB	CHC-C1D-ND	-4.93	108.22	113.95
29	CQ	202	PEB	CHC-C1D-ND	-4.93	108.22	113.95
29	iB	201	PEB	CHB-C4B-NB	-4.93	121.99	128.83
29	iM	201	PEB	CHB-C4B-NB	-4.93	121.99	128.83
29	C8	203	PEB	OA-C1A-C2A	-4.93	122.25	126.17
31	F1	1001	CYC	OB-C4B-C3B	-4.93	122.69	128.04
31	FK	1001	CYC	OB-C4B-C3B	-4.93	122.69	128.04
29	EG	202	PEB	CHC-C1D-ND	-4.93	108.22	113.95
29	EQ	202	PEB	CHC-C1D-ND	-4.93	108.22	113.95
29	NO	201	PEB	CHC-C1D-ND	-4.93	108.23	113.95
29	BB	301	PEB	CHB-C4B-NB	-4.92	122.00	128.83
29	BM	301	PEB	CHB-C4B-NB	-4.92	122.00	128.83
29	KG	202	PEB	CHC-C1D-ND	-4.92	108.23	113.95
29	KQ	202	PEB	CHC-C1D-ND	-4.92	108.23	113.95
29	f1	201	PEB	CHC-C4C-C3C	-4.92	121.94	130.34
29	fK	201	PEB	CHC-C4C-C3C	-4.92	121.94	130.34
29	MN	405	PEB	CMB-C2B-C1B	4.92	132.64	125.06
29	DK	1002	PEB	CHC-C1D-ND	-4.92	108.23	113.95
31	NF	1001	CYC	C1B-C2B-C3B	-4.92	102.74	107.87
31	NI	1001	CYC	C1B-C2B-C3B	-4.92	102.74	107.87
31	J1	1001	CYC	OB-C4B-C3B	-4.92	122.70	128.04
31	JK	1001	CYC	OB-C4B-C3B	-4.92	122.70	128.04
29	TB	201	PEB	OA-C1A-C2A	-4.92	122.26	126.17
29	TM	201	PEB	OA-C1A-C2A	-4.92	122.26	126.17
29	D1	1002	PEB	CHC-C1D-ND	-4.92	108.24	113.95
31	HF	1001	CYC	C1B-C2B-C3B	-4.92	102.74	107.87
31	HI	1001	CYC	C1B-C2B-C3B	-4.92	102.74	107.87
29	Q1	201	PEB	CHC-C4C-C3C	-4.91	121.95	130.34
29	QK	201	PEB	CHC-C4C-C3C	-4.91	121.95	130.34
29	VB	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	VM	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	HB	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	eB	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	HM	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	eM	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
31	N1	1001	CYC	OB-C4B-C3B	-4.91	122.71	128.04
31	NK	1001	CYC	OB-C4B-C3B	-4.91	122.71	128.04
29	S1	201	PEB	CHC-C4C-C3C	-4.91	121.96	130.34
29	SK	201	PEB	CHC-C4C-C3C	-4.91	121.96	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kB	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	kM	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
31	DK	1001	CYC	OB-C4B-C3B	-4.91	122.71	128.04
29	NB	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	gB	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	NM	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	gM	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	FB	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	FM	201	PEB	OA-C1A-C2A	-4.91	122.27	126.17
29	eB	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	eM	201	PEB	CHB-C4B-NB	-4.91	122.02	128.83
29	HG	201	PEB	OA-C1A-C2A	-4.90	122.27	126.17
29	HQ	201	PEB	OA-C1A-C2A	-4.90	122.27	126.17
30	MQ	405	PUB	OD-C4D-ND	-4.90	118.66	125.93
29	AG	202	PEB	CHC-C1D-ND	-4.90	108.25	113.95
29	AQ	202	PEB	CHC-C1D-ND	-4.90	108.25	113.95
30	xL	305	PUB	CHA-C4A-NA	-4.90	108.25	113.95
31	JF	1001	CYC	C1B-C2B-C3B	-4.90	102.75	107.87
31	JI	1001	CYC	C1B-C2B-C3B	-4.90	102.75	107.87
29	XB	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	XM	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	b1	201	PEB	CHC-C4C-C3C	-4.90	121.98	130.34
29	bK	201	PEB	CHC-C4C-C3C	-4.90	121.98	130.34
29	mB	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	mM	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	Z1	202	PEB	CHC-C4C-C3C	-4.90	121.98	130.34
29	ZK	202	PEB	CHC-C4C-C3C	-4.90	121.98	130.34
29	HB	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	HM	201	PEB	CHB-C4B-NB	-4.90	122.03	128.83
29	iB	201	PEB	OA-C1A-C2A	-4.90	122.28	126.17
29	BG	201	PEB	OA-C1A-C2A	-4.90	122.28	126.17
29	iM	201	PEB	OA-C1A-C2A	-4.90	122.28	126.17
29	BQ	201	PEB	OA-C1A-C2A	-4.90	122.28	126.17
29	IA	201	PEB	CHB-C4B-NB	-4.90	122.04	128.83
29	RB	201	PEB	CHB-C4B-NB	-4.90	122.04	128.83
29	RM	201	PEB	CHB-C4B-NB	-4.90	122.04	128.83
29	IN	201	PEB	CHB-C4B-NB	-4.90	122.04	128.83
29	MA	405	PEB	CMB-C2B-C1B	4.89	132.60	125.06
29	LB	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83
29	ZB	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83
29	LM	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83
29	ZM	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JB	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83
29	JM	201	PEB	CHB-C4B-NB	-4.89	122.04	128.83
29	JG	201	PEB	OA-C1A-C2A	-4.89	122.28	126.17
29	JQ	201	PEB	OA-C1A-C2A	-4.89	122.28	126.17
29	W7	201	PEB	C3B-C4B-NB	4.89	117.16	110.05
29	W9	201	PEB	C3B-C4B-NB	4.89	117.16	110.05
31	FF	1001	CYC	C1B-C2B-C3B	-4.89	102.77	107.87
31	FI	1001	CYC	C1B-C2B-C3B	-4.89	102.77	107.87
29	j1	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
29	jK	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
29	O1	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
29	OK	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
29	d1	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
29	dK	201	PEB	CHC-C4C-C3C	-4.89	122.00	130.34
31	D1	1001	CYC	OB-C4B-C3B	-4.89	122.74	128.04
29	DB	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	DM	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
31	L1	1001	CYC	OB-C4B-C3B	-4.88	122.74	128.04
31	LK	1001	CYC	OB-C4B-C3B	-4.88	122.74	128.04
30	xJ	305	PUB	CHA-C4A-NA	-4.88	108.28	113.95
31	LF	1001	CYC	C1B-C2B-C3B	-4.88	102.78	107.87
31	LI	1001	CYC	C1B-C2B-C3B	-4.88	102.78	107.87
29	LB	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	LG	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	LM	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	MQ	402	PEB	OA-C1A-C2A	-4.88	122.29	126.17
30	xL	305	PUB	OD-C4D-C3D	-4.88	122.74	128.04
29	CA	201	PEB	CHB-C4B-NB	-4.88	122.06	128.83
29	CN	201	PEB	CHB-C4B-NB	-4.88	122.06	128.83
29	l1	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	lK	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	NB	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	NM	201	PEB	OA-C1A-C2A	-4.88	122.29	126.17
29	hJ	203	PEB	C1C-CHB-C4B	4.88	134.63	128.81
29	hL	203	PEB	C1C-CHB-C4B	4.88	134.63	128.81
29	cB	201	PEB	CHB-C4B-NB	-4.88	122.06	128.83
29	cM	201	PEB	CHB-C4B-NB	-4.88	122.06	128.83
29	W1	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	h1	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	WK	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	hK	201	PEB	CHC-C4C-C3C	-4.88	122.02	130.34
29	U7	201	PEB	C3B-C4B-NB	4.87	117.14	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	U9	201	PEB	C3B-C4B-NB	4.87	117.14	110.05
30	wJ	305	PUB	CHA-C4A-NA	-4.87	108.29	113.95
29	VB	201	PEB	CHB-C4B-NB	-4.87	122.07	128.83
29	VM	201	PEB	CHB-C4B-NB	-4.87	122.07	128.83
29	PB	201	PEB	OA-C1A-C2A	-4.87	122.30	126.17
29	PM	201	PEB	OA-C1A-C2A	-4.87	122.30	126.17
29	DJ	202	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	bJ	203	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	DL	202	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	bL	203	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	XJ	203	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	XL	203	PEB	C1C-CHB-C4B	4.87	134.63	128.81
29	ZB	201	PEB	OA-C1A-C2A	-4.87	122.30	126.17
29	ZM	201	PEB	OA-C1A-C2A	-4.87	122.30	126.17
29	Q7	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	Q9	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	U1	202	PEB	CHC-C4C-C3C	-4.87	122.04	130.34
29	UK	202	PEB	CHC-C4C-C3C	-4.87	122.04	130.34
29	Z7	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	h7	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	Z9	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	h9	201	PEB	C3B-C4B-NB	4.87	117.13	110.05
29	kB	201	PEB	OA-C1A-C2A	-4.86	122.31	126.17
29	kM	201	PEB	OA-C1A-C2A	-4.86	122.31	126.17
29	FG	201	PEB	OA-C1A-C2A	-4.86	122.31	126.17
29	FQ	201	PEB	OA-C1A-C2A	-4.86	122.31	126.17
31	1P	1002	CYC	OB-C4B-C3B	-4.86	122.77	128.04
29	TB	201	PEB	CHB-C4B-NB	-4.86	122.09	128.83
29	TM	201	PEB	CHB-C4B-NB	-4.86	122.09	128.83
30	MN	403	PUB	CHA-C4A-NA	-4.86	108.31	113.95
30	wJ	305	PUB	OD-C4D-C3D	-4.86	122.77	128.04
29	rJ	203	PEB	C1C-CHB-C4B	4.86	134.61	128.81
29	rL	203	PEB	C1C-CHB-C4B	4.86	134.61	128.81
29	EA	201	PEB	CHB-C4B-NB	-4.86	122.09	128.83
29	EN	201	PEB	CHB-C4B-NB	-4.86	122.09	128.83
29	S7	201	PEB	C3B-C4B-NB	4.86	117.11	110.05
29	S9	201	PEB	C3B-C4B-NB	4.86	117.11	110.05
30	wL	305	PUB	OD-C4D-C3D	-4.85	122.77	128.04
29	fJ	203	PEB	C1C-CHB-C4B	4.85	134.61	128.81
29	fL	203	PEB	C1C-CHB-C4B	4.85	134.61	128.81
29	lJ	203	PEB	C1C-CHB-C4B	4.85	134.61	128.81
29	tJ	202	PEB	C1C-CHB-C4B	4.85	134.61	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	lL	203	PEB	C1C-CHB-C4B	4.85	134.61	128.81
29	tL	202	PEB	C1C-CHB-C4B	4.85	134.61	128.81
29	PJ	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	PL	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	b7	201	PEB	C3B-C4B-NB	4.85	117.11	110.05
29	f7	201	PEB	C3B-C4B-NB	4.85	117.11	110.05
29	b9	201	PEB	C3B-C4B-NB	4.85	117.11	110.05
29	f9	201	PEB	C3B-C4B-NB	4.85	117.11	110.05
29	AA	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
29	AN	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
29	DB	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
29	DM	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
30	wL	305	PUB	CHA-C4A-NA	-4.85	108.32	113.95
29	VF	201	PEB	CMB-C2B-C1B	4.85	132.53	125.06
29	VI	201	PEB	CMB-C2B-C1B	4.85	132.53	125.06
29	BJ	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	BL	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
31	HK	1001	CYC	OB-C4B-C3B	-4.85	122.78	128.04
29	KA	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
29	KN	201	PEB	CHB-C4B-NB	-4.85	122.10	128.83
29	FB	201	PEB	CHB-C4B-NB	-4.85	122.11	128.83
29	FM	201	PEB	CHB-C4B-NB	-4.85	122.11	128.83
29	RJ	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	TJ	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	RL	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	TL	203	PEB	C1C-CHB-C4B	4.85	134.60	128.81
29	FJ	203	PEB	C1C-CHB-C4B	4.84	134.60	128.81
29	FL	203	PEB	C1C-CHB-C4B	4.84	134.60	128.81
29	l7	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	l9	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	vJ	202	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	vL	202	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	nJ	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	nL	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	HJ	202	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	HL	202	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	MA	404	PEB	CMB-C2B-C1B	4.84	132.52	125.06
29	O7	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	O9	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	j7	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	j9	201	PEB	C3B-C4B-NB	4.84	117.09	110.05
29	JJ	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JL	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	ZJ	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81
29	ZL	203	PEB	C1C-CHB-C4B	4.84	134.59	128.81
31	H1	1001	CYC	OB-C4B-C3B	-4.84	122.79	128.04
29	AB	302	PEB	OA-C1A-C2A	-4.84	122.33	126.17
29	A7	301	PEB	CHB-C4B-NB	-4.83	122.12	128.83
29	A9	301	PEB	CHB-C4B-NB	-4.83	122.12	128.83
30	wJ	304	PUB	CAD-C3D-C4D	4.83	129.01	121.38
29	RF	201	PEB	CMB-C2B-C1B	4.83	132.51	125.06
29	RI	201	PEB	CMB-C2B-C1B	4.83	132.51	125.06
29	dJ	203	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	dL	203	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	VJ	202	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	jJ	203	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	VL	202	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	jL	203	PEB	C1C-CHB-C4B	4.83	134.58	128.81
29	kF	201	PEB	CMB-C2B-C1B	4.83	132.50	125.06
29	kI	201	PEB	CMB-C2B-C1B	4.83	132.50	125.06
29	gF	203	PEB	CHB-C4B-NB	-4.83	122.13	128.83
29	gI	203	PEB	CHB-C4B-NB	-4.83	122.13	128.83
29	pJ	203	PEB	C1C-CHB-C4B	4.83	134.57	128.81
29	pL	203	PEB	C1C-CHB-C4B	4.83	134.57	128.81
29	GA	201	PEB	CHB-C4B-NB	-4.83	122.13	128.83
29	GN	201	PEB	CHB-C4B-NB	-4.83	122.13	128.83
30	xL	304	PUB	CAD-C3D-C4D	4.83	129.00	121.38
29	TI	201	PEB	CMB-C2B-C1B	4.83	132.50	125.06
29	mB	201	PEB	OA-C1A-C2A	-4.83	122.34	126.17
29	mM	201	PEB	OA-C1A-C2A	-4.83	122.34	126.17
29	A7	305	PEB	CHC-C4C-C3C	-4.83	122.11	130.34
29	A9	305	PEB	CHC-C4C-C3C	-4.83	122.11	130.34
29	YF	201	PEB	CMB-C2B-C1B	4.82	132.49	125.06
29	YI	201	PEB	CMB-C2B-C1B	4.82	132.49	125.06
29	iF	203	PEB	CHB-C4B-NB	-4.82	122.14	128.83
29	iI	203	PEB	CHB-C4B-NB	-4.82	122.14	128.83
30	MA	403	PUB	CHA-C4A-NA	-4.82	108.35	113.95
29	aF	201	PEB	CMB-C2B-C1B	4.82	132.48	125.06
29	aI	201	PEB	CMB-C2B-C1B	4.82	132.48	125.06
29	LJ	202	PEB	C1C-CHB-C4B	4.82	134.56	128.81
29	LL	202	PEB	C1C-CHB-C4B	4.82	134.56	128.81
29	YF	203	PEB	CHB-C4B-NB	-4.82	122.15	128.83
29	YI	203	PEB	CHB-C4B-NB	-4.82	122.15	128.83
31	G9	1001	CYC	C2B-C1B-NB	4.82	114.04	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eF	201	PEB	CMB-C2B-C1B	4.82	132.48	125.06
29	eI	201	PEB	CMB-C2B-C1B	4.82	132.48	125.06
29	aF	203	PEB	CHB-C4B-NB	-4.82	122.15	128.83
29	aI	203	PEB	CHB-C4B-NB	-4.82	122.15	128.83
29	d7	201	PEB	C3B-C4B-NB	4.81	117.05	110.05
29	d9	201	PEB	C3B-C4B-NB	4.81	117.05	110.05
31	G9	1001	CYC	CHA-C1A-NA	-4.81	122.15	128.83
31	G7	1001	CYC	CHA-C1A-NA	-4.81	122.15	128.83
29	Z1	202	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	mF	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	mI	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	ZK	202	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	RF	202	PEB	CHB-C4B-NB	-4.81	122.15	128.83
29	cF	202	PEB	CHB-C4B-NB	-4.81	122.15	128.83
29	RI	202	PEB	CHB-C4B-NB	-4.81	122.15	128.83
29	cI	202	PEB	CHB-C4B-NB	-4.81	122.15	128.83
29	VF	203	PEB	CHB-C4B-NB	-4.81	122.16	128.83
29	VI	203	PEB	CHB-C4B-NB	-4.81	122.16	128.83
29	O1	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	OK	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	NJ	203	PEB	C1C-CHB-C4B	4.81	134.55	128.81
29	NL	203	PEB	C1C-CHB-C4B	4.81	134.55	128.81
29	cF	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
29	cI	201	PEB	CMB-C2B-C1B	4.81	132.47	125.06
30	wL	304	PUB	CAD-C3D-C4D	4.81	128.97	121.38
29	TR	203	PEB	CHC-C1D-ND	-4.81	108.36	113.95
29	lI	201	PEB	CMB-C2B-C1B	4.81	132.46	125.06
29	lK	201	PEB	CMB-C2B-C1B	4.81	132.46	125.06
29	mF	203	PEB	CHB-C4B-NB	-4.80	122.17	128.83
29	mI	203	PEB	CHB-C4B-NB	-4.80	122.17	128.83
31	K7	1001	CYC	CHA-C1A-NA	-4.80	122.17	128.83
29	LA	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	LN	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	gF	201	PEB	CMB-C2B-C1B	4.80	132.46	125.06
29	gI	201	PEB	CMB-C2B-C1B	4.80	132.46	125.06
29	HA	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	HN	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	DG	201	PEB	OA-C1A-C2A	-4.80	122.36	126.17
29	DQ	201	PEB	OA-C1A-C2A	-4.80	122.36	126.17
29	BA	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	BN	201	PEB	C3B-C4B-NB	4.80	117.03	110.05
29	b1	201	PEB	CMB-C2B-C1B	4.80	132.45	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bK	201	PEB	CMB-C2B-C1B	4.80	132.45	125.06
29	MN	404	PEB	CMB-C2B-C1B	4.80	132.45	125.06
31	YP	1000	CYC	OB-C4B-C3B	-4.80	122.84	128.04
29	iF	201	PEB	CMB-C2B-C1B	4.79	132.45	125.06
29	iI	201	PEB	CMB-C2B-C1B	4.79	132.45	125.06
31	I7	1001	CYC	CHA-C1A-NA	-4.79	122.18	128.83
31	I9	1001	CYC	CHA-C1A-NA	-4.79	122.18	128.83
29	A1	303	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	TF	202	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	TI	202	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	AK	303	PEB	CHB-C4B-NB	-4.79	122.18	128.83
31	G7	1001	CYC	C2B-C1B-NB	4.79	114.00	106.99
31	D1	1001	CYC	CMA-C3A-C4A	4.79	132.44	125.06
29	eF	203	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	eI	203	PEB	CHB-C4B-NB	-4.79	122.18	128.83
30	xJ	304	PUB	CAD-C3D-C4D	4.79	128.94	121.38
29	PF	203	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	PI	203	PEB	CHB-C4B-NB	-4.79	122.18	128.83
29	fI	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
29	fK	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
31	E7	1001	CYC	C2B-C1B-NB	4.79	114.00	106.99
31	E9	1001	CYC	C2B-C1B-NB	4.79	114.00	106.99
29	S1	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
29	SK	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
31	M7	1001	CYC	CHA-C1A-NA	-4.79	122.19	128.83
31	C7	1001	CYC	CHA-C1A-NA	-4.79	122.19	128.83
31	C9	1001	CYC	CHA-C1A-NA	-4.79	122.19	128.83
29	RR	203	PEB	CHC-C1D-ND	-4.79	108.39	113.95
29	W1	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
29	WK	201	PEB	CMB-C2B-C1B	4.79	132.44	125.06
29	kF	203	PEB	CHB-C4B-NB	-4.79	122.19	128.83
29	kI	203	PEB	CHB-C4B-NB	-4.79	122.19	128.83
29	PF	201	PEB	CMB-C2B-C1B	4.79	132.43	125.06
29	PI	201	PEB	CMB-C2B-C1B	4.79	132.43	125.06
31	E7	1001	CYC	CHA-C1A-NA	-4.78	122.19	128.83
31	E9	1001	CYC	CHA-C1A-NA	-4.78	122.19	128.83
29	JA	201	PEB	C3B-C4B-NB	4.78	117.01	110.05
29	JN	201	PEB	C3B-C4B-NB	4.78	117.01	110.05
29	DA	201	PEB	C3B-C4B-NB	4.78	117.01	110.05
29	DN	201	PEB	C3B-C4B-NB	4.78	117.01	110.05
31	M9	1001	CYC	C2B-C1B-NB	4.78	113.99	106.99
29	h1	201	PEB	CMB-C2B-C1B	4.78	132.43	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hK	201	PEB	CMB-C2B-C1B	4.78	132.43	125.06
31	C7	1001	CYC	C2B-C1B-NB	4.78	113.99	106.99
31	C9	1001	CYC	C2B-C1B-NB	4.78	113.99	106.99
31	K9	1001	CYC	CHA-C1A-NA	-4.78	122.19	128.83
29	NO	202	PEB	OA-C1A-C2A	-4.78	122.37	126.17
31	F9	1001	CYC	C2B-C1B-NB	4.78	113.98	106.99
29	Q1	201	PEB	CMB-C2B-C1B	4.78	132.42	125.06
29	QK	201	PEB	CMB-C2B-C1B	4.78	132.42	125.06
29	AM	302	PEB	OA-C1A-C2A	-4.77	122.38	126.17
31	DK	1001	CYC	CMA-C3A-C4A	4.77	132.41	125.06
31	N7	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
31	N9	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
31	L9	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
29	DG	203	PEB	C1C-CHB-C4B	-4.77	123.11	128.81
31	I7	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
31	I9	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
29	N2	203	PEB	CHC-C1D-ND	-4.77	108.41	113.95
29	j1	201	PEB	CMB-C2B-C1B	4.77	132.41	125.06
29	jK	201	PEB	CMB-C2B-C1B	4.77	132.41	125.06
29	DQ	203	PEB	C1C-CHB-C4B	-4.77	123.11	128.81
31	L7	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
31	D7	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
31	D9	1001	CYC	C2B-C1B-NB	4.77	113.97	106.99
29	MJ	201	PEB	C4B-C3B-C2B	-4.77	101.51	106.78
29	ML	201	PEB	C4B-C3B-C2B	-4.77	101.51	106.78
29	M3	203	PEB	OA-C1A-C2A	-4.77	122.38	126.17
29	MO	203	PEB	OA-C1A-C2A	-4.77	122.38	126.17
31	K7	1001	CYC	C2B-C1B-NB	4.76	113.96	106.99
29	HD	202	PEB	C1C-CHB-C4B	-4.76	123.12	128.81
31	N1	1001	CYC	CMA-C3A-C4A	4.76	132.40	125.06
31	M9	1001	CYC	CHA-C1A-NA	-4.76	122.22	128.83
29	M3	202	PEB	OA-C1A-C2A	-4.76	122.39	126.17
29	MO	202	PEB	OA-C1A-C2A	-4.76	122.39	126.17
29	UJ	201	PEB	C4B-C3B-C2B	-4.76	101.51	106.78
29	UL	201	PEB	C4B-C3B-C2B	-4.76	101.51	106.78
31	HK	1001	CYC	CMA-C3A-C4A	4.76	132.40	125.06
31	F7	1001	CYC	C2B-C1B-NB	4.76	113.96	106.99
31	yP	1001	CYC	C4D-CHA-C1A	4.76	134.50	128.81
31	WP	1001	CYC	C4D-CHA-C1A	4.76	134.49	128.81
29	A8	201	PEB	CHB-C4B-NB	-4.76	122.23	128.83
29	FA	201	PEB	C3B-C4B-NB	4.76	116.97	110.05
29	FN	201	PEB	C3B-C4B-NB	4.76	116.97	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	J7	1001	CYC	C2B-C1B-NB	4.76	113.95	106.99
31	M7	1001	CYC	C2B-C1B-NB	4.76	113.95	106.99
29	oJ	201	PEB	C4B-C3B-C2B	-4.76	101.52	106.78
29	oL	201	PEB	C4B-C3B-C2B	-4.76	101.52	106.78
31	H7	1001	CYC	C2B-C1B-NB	4.76	113.95	106.99
31	H9	1001	CYC	C2B-C1B-NB	4.76	113.95	106.99
31	K9	1001	CYC	C2B-C1B-NB	4.76	113.95	106.99
29	cJ	201	PEB	C4B-C3B-C2B	-4.76	101.52	106.78
29	cL	201	PEB	C4B-C3B-C2B	-4.76	101.52	106.78
31	NK	1001	CYC	CMA-C3A-C4A	4.76	132.39	125.06
29	U1	202	PEB	CMB-C2B-C1B	4.75	132.39	125.06
29	UK	202	PEB	CMB-C2B-C1B	4.75	132.39	125.06
29	P2	202	PEB	CHC-C1D-ND	-4.75	108.43	113.95
29	PR	202	PEB	CHC-C1D-ND	-4.75	108.43	113.95
31	J9	1001	CYC	C2B-C1B-NB	4.75	113.95	106.99
29	d1	201	PEB	CMB-C2B-C1B	4.75	132.38	125.06
29	dK	201	PEB	CMB-C2B-C1B	4.75	132.38	125.06
29	T2	203	PEB	CHC-C1D-ND	-4.75	108.43	113.95
31	F1	1001	CYC	CMA-C3A-C4A	4.75	132.38	125.06
31	FK	1001	CYC	CMA-C3A-C4A	4.75	132.38	125.06
29	HG	203	PEB	C1C-CHB-C4B	-4.75	123.13	128.81
29	R2	203	PEB	CHC-C1D-ND	-4.75	108.43	113.95
29	V2	203	PEB	CHC-C1D-ND	-4.75	108.43	113.95
29	Y1	202	PEB	OA-C1A-C2A	-4.75	122.40	126.17
29	YK	202	PEB	OA-C1A-C2A	-4.75	122.40	126.17
29	NO	201	PEB	OA-C1A-C2A	-4.75	122.40	126.17
29	LQ	202	PEB	C1C-CHB-C4B	-4.75	123.14	128.81
31	J1	1001	CYC	CMA-C3A-C4A	4.75	132.38	125.06
31	JK	1001	CYC	CMA-C3A-C4A	4.75	132.38	125.06
31	H1	1001	CYC	CMA-C3A-C4A	4.75	132.38	125.06
31	yP	1001	CYC	OB-C4B-C3B	-4.75	122.89	128.04
29	VR	203	PEB	CHC-C1D-ND	-4.75	108.44	113.95
29	A5	201	PEB	CHB-C4B-NB	-4.75	122.24	128.83
29	wJ	301	PEB	CHA-C1B-NB	-4.75	115.00	124.93
30	xJ	305	PUB	C4B-CHB-C1C	4.75	134.48	128.81
29	BD	202	PEB	C1C-CHB-C4B	-4.75	123.14	128.81
29	wL	301	PEB	C1C-CHB-C4B	-4.75	123.14	128.81
29	KJ	201	PEB	C4B-C3B-C2B	-4.74	101.53	106.78
29	KL	201	PEB	C4B-C3B-C2B	-4.74	101.53	106.78
29	xJ	301	PEB	CHA-C1B-NB	-4.74	115.02	124.93
29	wJ	301	PEB	C1C-CHB-C4B	-4.74	123.15	128.81
29	HQ	203	PEB	C1C-CHB-C4B	-4.74	123.15	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	L1	1001	CYC	CMA-C3A-C4A	4.74	132.36	125.06
31	LK	1001	CYC	CMA-C3A-C4A	4.74	132.36	125.06
29	LD	202	PEB	C1C-CHB-C4B	-4.74	123.15	128.81
29	IJ	201	PEB	C4B-C3B-C2B	-4.74	101.54	106.78
29	IL	201	PEB	C4B-C3B-C2B	-4.74	101.54	106.78
29	wL	301	PEB	CHA-C1B-NB	-4.74	115.02	124.93
29	BG	203	PEB	C1C-CHB-C4B	-4.74	123.15	128.81
29	MG	404	PEB	CMB-C2B-C1B	4.74	132.36	125.06
29	OJ	201	PEB	C4B-C3B-C2B	-4.73	101.54	106.78
29	OL	201	PEB	C4B-C3B-C2B	-4.73	101.54	106.78
29	qJ	201	PEB	C4B-C3B-C2B	-4.73	101.55	106.78
29	qL	201	PEB	C4B-C3B-C2B	-4.73	101.55	106.78
29	NR	203	PEB	CHC-C1D-ND	-4.73	108.45	113.95
31	VP	1001	CYC	CMB-C2B-C1B	4.73	130.07	124.17
29	WJ	202	PEB	C4B-C3B-C2B	-4.73	101.55	106.78
29	WL	202	PEB	C4B-C3B-C2B	-4.73	101.55	106.78
29	FQ	203	PEB	C1C-CHB-C4B	-4.73	123.16	128.81
29	xL	301	PEB	CHA-C1B-NB	-4.73	115.04	124.93
29	P1	203	PEB	OA-C1A-C2A	-4.73	122.42	126.17
29	PK	203	PEB	OA-C1A-C2A	-4.73	122.42	126.17
29	BQ	203	PEB	C1C-CHB-C4B	-4.72	123.17	128.81
29	D3	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	DO	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	uJ	202	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
29	uL	202	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
29	M3	201	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	MO	201	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	JG	203	PEB	C1C-CHB-C4B	-4.72	123.17	128.81
29	J3	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	JO	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	k1	203	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	kK	203	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	AJ	201	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
29	AL	201	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
31	xP	1001	CYC	CMB-C2B-C1B	4.72	130.06	124.17
29	SJ	201	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
29	SL	201	PEB	C4B-C3B-C2B	-4.72	101.56	106.78
29	e1	203	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	eK	203	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	B3	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	K5	201	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	K8	201	PEB	CHB-C4B-NB	-4.72	122.28	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BO	203	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	F9	1002	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	L3	202	PEB	CHB-C4B-NB	-4.72	122.28	128.83
29	LO	202	PEB	CHB-C4B-NB	-4.72	122.28	128.83
31	J9	1001	CYC	CHA-C1A-NA	-4.72	122.28	128.83
29	NO	203	PEB	OA-C1A-C2A	-4.72	122.42	126.17
29	X2	202	PEB	CHC-C1D-ND	-4.71	108.47	113.95
29	F3	203	PEB	CHB-C4B-NB	-4.71	122.29	128.83
29	FO	203	PEB	CHB-C4B-NB	-4.71	122.29	128.83
29	EJ	201	PEB	C4B-C3B-C2B	-4.71	101.56	106.78
29	EL	201	PEB	C4B-C3B-C2B	-4.71	101.56	106.78
29	H3	203	PEB	CHB-C4B-NB	-4.71	122.29	128.83
29	HO	203	PEB	CHB-C4B-NB	-4.71	122.29	128.83
29	XR	203	PEB	CHC-C1D-ND	-4.71	108.47	113.95
29	xL	301	PEB	C1C-CHB-C4B	-4.71	123.18	128.81
31	1P	1001	CYC	CMB-C2B-C1B	4.71	130.05	124.17
29	mJ	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
29	mL	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
29	N3	202	PEB	OA-C1A-C2A	-4.71	122.43	126.17
29	JQ	203	PEB	C1C-CHB-C4B	-4.71	123.18	128.81
29	MQ	406	PEB	CMB-C2B-C1B	4.71	132.32	125.06
29	I5	201	PEB	CHB-C4B-NB	-4.71	122.30	128.83
29	I8	201	PEB	CHB-C4B-NB	-4.71	122.30	128.83
29	L4	202	PEB	C1C-CHB-C4B	-4.71	123.18	128.81
29	QJ	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
29	QL	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
31	J7	1001	CYC	CHA-C1A-NA	-4.71	122.30	128.83
29	JG	202	PEB	OA-C1A-C2A	-4.71	122.43	126.17
29	JQ	202	PEB	OA-C1A-C2A	-4.71	122.43	126.17
29	B4	202	PEB	C1C-CHB-C4B	-4.71	123.19	128.81
29	LG	203	PEB	C1C-CHB-C4B	-4.71	123.19	128.81
29	xJ	301	PEB	C1C-CHB-C4B	-4.71	123.19	128.81
29	C5	201	PEB	CHB-C4B-NB	-4.71	122.30	128.83
29	C8	201	PEB	CHB-C4B-NB	-4.71	122.30	128.83
29	gJ	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
29	gL	201	PEB	C4B-C3B-C2B	-4.71	101.57	106.78
29	R1	203	PEB	OA-C1A-C2A	-4.71	122.43	126.17
29	RK	203	PEB	OA-C1A-C2A	-4.71	122.43	126.17
31	D7	1001	CYC	CHA-C1A-NA	-4.70	122.30	128.83
31	D9	1001	CYC	CHA-C1A-NA	-4.70	122.30	128.83
29	a1	203	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	aK	203	PEB	OA-C1A-C2A	-4.70	122.43	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C1	1001	CYC	OC-C1C-C2C	-4.70	122.43	126.17
29	T1	202	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	N3	203	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	DG	202	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	TK	202	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	DQ	202	PEB	OA-C1A-C2A	-4.70	122.43	126.17
29	iJ	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	iL	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	FG	202	PEB	OA-C1A-C2A	-4.70	122.44	126.17
29	HG	202	PEB	OA-C1A-C2A	-4.70	122.44	126.17
29	FQ	202	PEB	OA-C1A-C2A	-4.70	122.44	126.17
29	HQ	202	PEB	OA-C1A-C2A	-4.70	122.44	126.17
29	N3	201	PEB	OA-C1A-C2A	-4.70	122.44	126.17
29	CJ	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	sJ	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	CL	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	sL	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	F4	202	PEB	C1C-CHB-C4B	-4.70	123.20	128.81
29	eJ	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	eL	201	PEB	C4B-C3B-C2B	-4.70	101.58	106.78
29	FG	203	PEB	C1C-CHB-C4B	-4.69	123.20	128.81
30	xL	305	PUB	C4B-CHB-C1C	4.69	134.42	128.81
31	WP	1001	CYC	OB-C4B-C3B	-4.69	122.95	128.04
29	DD	202	PEB	C1C-CHB-C4B	-4.69	123.20	128.81
29	YJ	201	PEB	C4B-C3B-C2B	-4.69	101.59	106.78
29	YL	201	PEB	C4B-C3B-C2B	-4.69	101.59	106.78
29	UR	202	PEB	CHB-C4B-NB	-4.69	122.32	128.83
29	D7	1002	PEB	OA-C1A-C2A	-4.69	122.44	126.17
29	D9	1002	PEB	OA-C1A-C2A	-4.69	122.44	126.17
29	BG	202	PEB	CHC-C1D-ND	-4.69	108.50	113.95
29	BQ	202	PEB	CHC-C1D-ND	-4.69	108.50	113.95
29	M2	202	PEB	CHB-C4B-NB	-4.69	122.32	128.83
30	MA	402	PUB	CHA-C1B-C2B	-4.69	122.34	130.34
31	MP	1001	CYC	CMB-C2B-C1B	4.69	130.02	124.17
29	J4	202	PEB	C1C-CHB-C4B	-4.69	123.21	128.81
29	HG	202	PEB	CHC-C1D-ND	-4.68	108.51	113.95
29	HQ	202	PEB	CHC-C1D-ND	-4.68	108.51	113.95
29	FD	202	PEB	C1C-CHB-C4B	-4.68	123.22	128.81
31	F9	1001	CYC	CHA-C1A-NA	-4.68	122.33	128.83
29	GJ	201	PEB	C4B-C3B-C2B	-4.68	101.60	106.78
29	GL	201	PEB	C4B-C3B-C2B	-4.68	101.60	106.78
31	H7	1001	CYC	CHA-C1A-NA	-4.68	122.33	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	H9	1001	CYC	CHA-C1A-NA	-4.68	122.33	128.83
29	F7	1002	PEB	OA-C1A-C2A	-4.68	122.45	126.17
31	sP	1001	CYC	CMB-C2B-C1B	4.68	130.01	124.17
31	F7	1001	CYC	CHA-C1A-NA	-4.68	122.34	128.83
30	AB	304	PUB	CHA-C1B-C2B	-4.68	122.36	130.34
30	MN	402	PUB	CHA-C1B-C2B	-4.68	122.36	130.34
29	LG	202	PEB	OA-C1A-C2A	-4.68	122.45	126.17
29	LQ	201	PEB	OA-C1A-C2A	-4.68	122.45	126.17
31	L7	1001	CYC	CHA-C1A-NA	-4.68	122.34	128.83
29	c1	203	PEB	OA-C1A-C2A	-4.67	122.46	126.17
29	cK	203	PEB	OA-C1A-C2A	-4.67	122.46	126.17
29	kJ	201	PEB	C4B-C3B-C2B	-4.67	101.61	106.78
29	kL	201	PEB	C4B-C3B-C2B	-4.67	101.61	106.78
31	jP	1001	CYC	CMB-C2B-C1B	4.67	130.00	124.17
31	oP	1001	CYC	CMB-C2B-C1B	4.67	130.00	124.17
31	L9	1001	CYC	CHA-C1A-NA	-4.67	122.35	128.83
29	FG	202	PEB	CHC-C1D-ND	-4.67	108.52	113.95
29	FQ	202	PEB	CHC-C1D-ND	-4.67	108.52	113.95
29	V1	203	PEB	OA-C1A-C2A	-4.67	122.46	126.17
29	VK	203	PEB	OA-C1A-C2A	-4.67	122.46	126.17
31	L9	1001	CYC	C1B-C2B-C3B	-4.67	103.00	107.87
29	aJ	201	PEB	C4B-C3B-C2B	-4.67	101.61	106.78
29	aL	201	PEB	C4B-C3B-C2B	-4.67	101.61	106.78
29	SR	202	PEB	CHB-C4B-NB	-4.67	122.35	128.83
29	M3	203	PEB	CHC-C1D-ND	-4.67	108.53	113.95
29	MO	203	PEB	CHC-C1D-ND	-4.67	108.53	113.95
29	WR	202	PEB	CHB-C4B-NB	-4.67	122.35	128.83
29	H4	202	PEB	C1C-CHB-C4B	-4.67	123.24	128.81
31	N7	1001	CYC	CHA-C1A-NA	-4.67	122.36	128.83
31	N9	1001	CYC	CHA-C1A-NA	-4.67	122.36	128.83
31	OP	1001	CYC	CMB-C2B-C1B	4.66	129.99	124.17
31	FP	1001	CYC	CMB-C2B-C1B	4.66	129.99	124.17
31	qP	1001	CYC	CMB-C2B-C1B	4.66	129.99	124.17
29	D4	202	PEB	C1C-CHB-C4B	-4.66	123.24	128.81
29	LG	202	PEB	CHC-C1D-ND	-4.66	108.53	113.95
29	LQ	201	PEB	CHC-C1D-ND	-4.66	108.53	113.95
29	S2	202	PEB	CHB-C4B-NB	-4.66	122.36	128.83
29	W2	202	PEB	CHB-C4B-NB	-4.66	122.36	128.83
30	AM	304	PUB	CHA-C1B-C2B	-4.66	122.39	130.34
31	QP	1001	CYC	CMB-C2B-C1B	4.66	129.99	124.17
31	xP	1001	CYC	CHB-C4A-C3A	4.66	136.88	124.90
30	AF	303	PUB	CHB-C1C-NC	-4.66	122.36	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	AI	303	PUB	CHB-C1C-NC	-4.66	122.36	128.83
29	JD	202	PEB	C1C-CHB-C4B	-4.66	123.25	128.81
29	BG	202	PEB	OA-C1A-C2A	-4.66	122.47	126.17
29	BQ	202	PEB	OA-C1A-C2A	-4.66	122.47	126.17
31	DP	1001	CYC	CMB-C2B-C1B	4.66	129.98	124.17
29	iI	203	PEB	OA-C1A-C2A	-4.65	122.47	126.17
29	iK	203	PEB	OA-C1A-C2A	-4.65	122.47	126.17
31	YP	1000	CYC	CHB-C4A-C3A	4.65	136.86	124.90
31	BP	1001	CYC	CMB-C2B-C1B	4.65	129.97	124.17
30	wL	305	PUB	C4B-CHB-C1C	4.65	134.36	128.81
31	kP	1001	CYC	CMB-C2B-C1B	4.65	129.97	124.17
31	lP	1002	CYC	CHB-C4A-C3A	4.65	136.85	124.90
29	J9	1002	PEB	OA-C1A-C2A	-4.65	122.48	126.17
31	VP	1001	CYC	CHB-C4A-C3A	4.65	136.85	124.90
30	wJ	305	PUB	C4B-CHB-C1C	4.65	134.36	128.81
31	fP	1001	CYC	CMB-C2B-C1B	4.64	129.96	124.17
31	wP	1001	CYC	CMB-C2B-C1B	4.64	129.96	124.17
29	yJ	301	PEB	CHB-C4B-NB	-4.64	122.39	128.83
29	yL	301	PEB	CHB-C4B-NB	-4.64	122.39	128.83
29	O2	202	PEB	CHB-C4B-NB	-4.64	122.39	128.83
29	DG	202	PEB	CHC-C1D-ND	-4.64	108.56	113.95
29	DQ	202	PEB	CHC-C1D-ND	-4.64	108.56	113.95
29	N7	1002	PEB	OA-C1A-C2A	-4.64	122.48	126.17
29	N9	1002	PEB	OA-C1A-C2A	-4.64	122.48	126.17
31	F7	1001	CYC	C1B-C2B-C3B	-4.64	103.03	107.87
31	SP	1001	CYC	CMB-C2B-C1B	4.64	129.96	124.17
29	JG	202	PEB	CHC-C1D-ND	-4.64	108.56	113.95
29	JQ	202	PEB	CHC-C1D-ND	-4.64	108.56	113.95
29	Q2	202	PEB	CHB-C4B-NB	-4.64	122.40	128.83
31	HP	1001	CYC	CMB-C2B-C1B	4.64	129.96	124.17
29	J7	1002	PEB	OA-C1A-C2A	-4.64	122.49	126.17
31	CK	1001	CYC	OC-C1C-C2C	-4.64	122.49	126.17
31	H7	1001	CYC	C1B-C2B-C3B	-4.64	103.03	107.87
31	L7	1001	CYC	C1B-C2B-C3B	-4.64	103.03	107.87
31	H9	1001	CYC	C1B-C2B-C3B	-4.64	103.03	107.87
29	H7	1002	PEB	OA-C1A-C2A	-4.63	122.49	126.17
29	H9	1002	PEB	OA-C1A-C2A	-4.63	122.49	126.17
31	UP	1001	CYC	CMB-C2B-C1B	4.63	129.95	124.17
31	hP	1001	CYC	CMB-C2B-C1B	4.63	129.95	124.17
31	EF	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
31	EI	1001	CYC	OC-C1C-C2C	-4.63	122.49	126.17
31	IP	1001	CYC	CMB-C2B-C1B	4.63	129.95	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MJ	201	PEB	C3B-C4B-NB	4.63	116.78	110.05
29	ML	201	PEB	C3B-C4B-NB	4.63	116.78	110.05
29	m1	202	PEB	OA-C1A-C2A	-4.63	122.49	126.17
29	mK	202	PEB	OA-C1A-C2A	-4.63	122.49	126.17
31	D7	1001	CYC	C1B-C2B-C3B	-4.63	103.04	107.87
31	D9	1001	CYC	C1B-C2B-C3B	-4.63	103.04	107.87
29	A1	302	PEB	CHB-C4B-NB	-4.63	122.41	128.83
29	AK	302	PEB	CHB-C4B-NB	-4.63	122.41	128.83
29	g1	203	PEB	OA-C1A-C2A	-4.63	122.50	126.17
29	gK	203	PEB	OA-C1A-C2A	-4.63	122.50	126.17
29	U2	202	PEB	CHB-C4B-NB	-4.62	122.41	128.83
31	J7	1001	CYC	C1B-C2B-C3B	-4.62	103.05	107.87
29	E4	202	PEB	CHB-C4B-NB	-4.62	122.41	128.83
31	nP	1001	CYC	CMB-C2B-C1B	4.62	129.94	124.17
31	F9	1001	CYC	C1B-C2B-C3B	-4.62	103.05	107.87
29	g7	201	PEB	CMB-C2B-C1B	4.62	132.18	125.06
29	g9	201	PEB	CMB-C2B-C1B	4.62	132.18	125.06
29	NO	203	PEB	CHC-C1D-ND	-4.62	108.58	113.95
30	BB	302	PUB	OD-C4D-ND	-4.62	119.08	125.93
30	BM	302	PUB	OD-C4D-ND	-4.62	119.08	125.93
29	J5	201	PEB	CHA-C1B-C2B	4.62	136.78	124.90
29	J8	201	PEB	CHA-C1B-C2B	4.62	136.78	124.90
29	HC	201	PEB	C1C-CHB-C4B	-4.62	123.29	128.81
29	HE	201	PEB	C1C-CHB-C4B	-4.62	123.29	128.81
29	m7	201	PEB	CMB-C2B-C1B	4.62	132.18	125.06
29	m9	201	PEB	CMB-C2B-C1B	4.62	132.18	125.06
31	DF	1001	CYC	C2B-C1B-NB	4.62	113.75	106.99
31	DI	1001	CYC	C2B-C1B-NB	4.62	113.75	106.99
29	M4	202	PEB	CHB-C4B-NB	-4.62	122.42	128.83
29	ED	201	PEB	CHB-C4B-NB	-4.62	122.42	128.83
29	U7	202	PEB	CHB-C4B-NB	-4.62	122.42	128.83
29	U9	202	PEB	CHB-C4B-NB	-4.62	122.42	128.83
31	uP	1001	CYC	CMB-C2B-C1B	4.62	129.93	124.17
31	J9	1001	CYC	C1B-C2B-C3B	-4.62	103.06	107.87
29	qJ	201	PEB	C3B-C4B-NB	4.61	116.76	110.05
29	qL	201	PEB	C3B-C4B-NB	4.61	116.76	110.05
29	KD	202	PEB	CHB-C4B-NB	-4.61	122.43	128.83
31	XP	1001	CYC	CMB-C2B-C1B	4.61	129.93	124.17
29	UJ	201	PEB	C3B-C4B-NB	4.61	116.76	110.05
29	UL	201	PEB	C3B-C4B-NB	4.61	116.76	110.05
29	P7	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	V7	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	i7	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	P9	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	V9	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	i9	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	N3	203	PEB	CHC-C1D-ND	-4.61	108.59	113.95
29	IJ	201	PEB	C3B-C4B-NB	4.61	116.75	110.05
29	IL	201	PEB	C3B-C4B-NB	4.61	116.75	110.05
29	c7	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	e7	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	c9	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
29	e9	201	PEB	CMB-C2B-C1B	4.61	132.16	125.06
31	HF	1001	CYC	C2B-C1B-NB	4.61	113.73	106.99
31	NF	1001	CYC	C2B-C1B-NB	4.61	113.73	106.99
31	HI	1001	CYC	C2B-C1B-NB	4.61	113.73	106.99
31	NI	1001	CYC	C2B-C1B-NB	4.61	113.73	106.99
29	GD	202	PEB	CHB-C4B-NB	-4.60	122.44	128.83
31	JF	1001	CYC	C2B-C1B-NB	4.60	113.73	106.99
31	JI	1001	CYC	C2B-C1B-NB	4.60	113.73	106.99
29	N3	201	PEB	CAB-CBB-CGB	-4.60	103.70	113.60
29	I4	202	PEB	CHB-C4B-NB	-4.60	122.44	128.83
29	G4	202	PEB	CHB-C4B-NB	-4.60	122.44	128.83
31	FF	1001	CYC	C2B-C1B-NB	4.60	113.72	106.99
31	LF	1001	CYC	C2B-C1B-NB	4.60	113.72	106.99
31	FI	1001	CYC	C2B-C1B-NB	4.60	113.72	106.99
31	LI	1001	CYC	C2B-C1B-NB	4.60	113.72	106.99
29	mJ	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	mL	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	CD	202	PEB	CHB-C4B-NB	-4.60	122.44	128.83
29	KJ	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	KL	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	NO	201	PEB	CAB-CBB-CGB	-4.60	103.71	113.60
29	JC	201	PEB	C1C-CHB-C4B	-4.60	123.32	128.81
29	JE	201	PEB	C1C-CHB-C4B	-4.60	123.32	128.81
29	K4	202	PEB	CHB-C4B-NB	-4.60	122.45	128.83
29	QJ	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	QL	201	PEB	C3B-C4B-NB	4.60	116.74	110.05
29	a7	201	PEB	CMB-C2B-C1B	4.60	132.14	125.06
29	a9	201	PEB	CMB-C2B-C1B	4.60	132.14	125.06
29	h7	202	PEB	CHB-C4B-NB	-4.60	122.45	128.83
29	h9	202	PEB	CHB-C4B-NB	-4.60	122.45	128.83
29	T7	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06
29	Y7	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T9	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06
29	Y9	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06
29	R7	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06
29	R9	201	PEB	CMB-C2B-C1B	4.59	132.14	125.06
29	cJ	201	PEB	C3B-C4B-NB	4.59	116.73	110.05
29	cL	201	PEB	C3B-C4B-NB	4.59	116.73	110.05
29	uJ	202	PEB	C3B-C4B-NB	4.59	116.73	110.05
29	uL	202	PEB	C3B-C4B-NB	4.59	116.73	110.05
30	AF	302	PUB	CHC-C1D-ND	-4.59	107.92	113.72
30	AI	302	PUB	CHC-C1D-ND	-4.59	107.92	113.72
29	QR	202	PEB	CHB-C4B-NB	-4.59	122.46	128.83
29	DC	201	PEB	C1C-CHB-C4B	-4.59	123.33	128.81
29	DE	201	PEB	C1C-CHB-C4B	-4.59	123.33	128.81
29	L7	1002	PEB	OA-C1A-C2A	-4.59	122.53	126.17
29	l7	202	PEB	CHB-C4B-NB	-4.59	122.46	128.83
29	l9	202	PEB	CHB-C4B-NB	-4.59	122.46	128.83
29	OJ	201	PEB	C3B-C4B-NB	4.59	116.72	110.05
29	OL	201	PEB	C3B-C4B-NB	4.59	116.72	110.05
29	MD	202	PEB	CHB-C4B-NB	-4.58	122.47	128.83
30	A1	304	PUB	CHA-C4A-NA	-4.58	108.62	113.95
30	AK	304	PUB	CHA-C4A-NA	-4.58	108.62	113.95
29	aJ	201	PEB	C3B-C4B-NB	4.58	116.72	110.05
29	aL	201	PEB	C3B-C4B-NB	4.58	116.72	110.05
29	EJ	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	iJ	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	EL	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	iL	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	H3	203	PEB	OA-C1A-C2A	-4.58	122.53	126.17
29	HO	203	PEB	OA-C1A-C2A	-4.58	122.53	126.17
29	S7	202	PEB	CHB-C4B-NB	-4.58	122.47	128.83
29	b7	202	PEB	CHB-C4B-NB	-4.58	122.47	128.83
29	S9	202	PEB	CHB-C4B-NB	-4.58	122.47	128.83
29	b9	202	PEB	CHB-C4B-NB	-4.58	122.47	128.83
31	N7	1001	CYC	C1B-C2B-C3B	-4.58	103.09	107.87
31	N9	1001	CYC	C1B-C2B-C3B	-4.58	103.09	107.87
31	KF	1001	CYC	OC-C1C-C2C	-4.58	122.53	126.17
29	SJ	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	SL	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	FC	201	PEB	C1C-CHB-C4B	-4.58	123.34	128.81
29	FE	201	PEB	C1C-CHB-C4B	-4.58	123.34	128.81
29	sJ	201	PEB	C3B-C4B-NB	4.58	116.71	110.05
29	sL	201	PEB	C3B-C4B-NB	4.58	116.71	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	j7	202	PEB	CHB-C4B-NB	-4.58	122.48	128.83
29	j9	202	PEB	CHB-C4B-NB	-4.58	122.48	128.83
29	M3	201	PEB	CAB-CBB-CGB	-4.58	103.75	113.60
29	MO	201	PEB	CAB-CBB-CGB	-4.58	103.75	113.60
29	BC	201	PEB	C1C-CHB-C4B	-4.58	123.34	128.81
29	BE	201	PEB	C1C-CHB-C4B	-4.58	123.34	128.81
29	L9	1002	PEB	OA-C1A-C2A	-4.58	122.53	126.17
29	d7	202	PEB	CHB-C4B-NB	-4.57	122.48	128.83
29	d9	202	PEB	CHB-C4B-NB	-4.57	122.48	128.83
29	oJ	201	PEB	C3B-C4B-NB	4.57	116.70	110.05
29	oL	201	PEB	C3B-C4B-NB	4.57	116.70	110.05
29	O7	202	PEB	CHB-C4B-NB	-4.57	122.48	128.83
29	O9	202	PEB	CHB-C4B-NB	-4.57	122.48	128.83
29	LC	201	PEB	C1C-CHB-C4B	-4.57	123.35	128.81
29	LE	201	PEB	C1C-CHB-C4B	-4.57	123.35	128.81
29	k7	201	PEB	CMB-C2B-C1B	4.57	132.11	125.06
29	k9	201	PEB	CMB-C2B-C1B	4.57	132.11	125.06
31	VP	1001	CYC	CMA-C3A-C4A	4.57	132.10	125.06
31	xP	1001	CYC	CMA-C3A-C4A	4.57	132.10	125.06
29	AF	305	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	AI	305	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	f7	202	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	f9	202	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	XR	202	PEB	C2A-C1A-NA	4.57	112.21	108.27
29	W7	202	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	W9	202	PEB	CHB-C4B-NB	-4.57	122.49	128.83
29	CJ	201	PEB	C3B-C4B-NB	4.57	116.69	110.05
29	CL	201	PEB	C3B-C4B-NB	4.57	116.69	110.05
29	YJ	201	PEB	C3B-C4B-NB	4.57	116.69	110.05
29	YL	201	PEB	C3B-C4B-NB	4.57	116.69	110.05
29	eJ	201	PEB	C3B-C4B-NB	4.56	116.69	110.05
29	eL	201	PEB	C3B-C4B-NB	4.56	116.69	110.05
29	Q7	202	PEB	CHB-C4B-NB	-4.56	122.50	128.83
29	Q9	202	PEB	CHB-C4B-NB	-4.56	122.50	128.83
29	N2	202	PEB	C2A-C1A-NA	4.56	112.21	108.27
29	Z7	202	PEB	CHB-C4B-NB	-4.56	122.50	128.83
29	Z9	202	PEB	CHB-C4B-NB	-4.56	122.50	128.83
29	WJ	202	PEB	C3B-C4B-NB	4.56	116.69	110.05
29	WL	202	PEB	C3B-C4B-NB	4.56	116.69	110.05
29	NR	202	PEB	C2A-C1A-NA	4.56	112.20	108.27
31	IF	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17
31	II	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	NF	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17
31	NI	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17
29	GJ	201	PEB	C3B-C4B-NB	4.56	116.68	110.05
29	GL	201	PEB	C3B-C4B-NB	4.56	116.68	110.05
31	MP	1001	CYC	CAB-C3B-C4B	4.56	128.58	121.38
31	CF	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17
31	CI	1001	CYC	OC-C1C-C2C	-4.56	122.55	126.17
29	kJ	201	PEB	C3B-C4B-NB	4.56	116.68	110.05
29	kL	201	PEB	C3B-C4B-NB	4.56	116.68	110.05
31	jP	1001	CYC	CAB-C3B-C4B	4.56	128.57	121.38
29	ID	202	PEB	CHB-C4B-NB	-4.56	122.51	128.83
29	AJ	201	PEB	C3B-C4B-NB	4.56	116.67	110.05
29	AL	201	PEB	C3B-C4B-NB	4.56	116.67	110.05
31	1P	1002	CYC	CMB-C2B-C1B	4.55	129.85	124.17
29	C4	202	PEB	CHB-C4B-NB	-4.55	122.51	128.83
31	SP	1001	CYC	CAB-C3B-C4B	4.55	128.57	121.38
29	gJ	201	PEB	C3B-C4B-NB	4.55	116.67	110.05
29	gL	201	PEB	C3B-C4B-NB	4.55	116.67	110.05
29	TR	202	PEB	C2A-C1A-NA	4.55	112.20	108.27
31	QP	1001	CYC	CAB-C3B-C4B	4.55	128.57	121.38
31	GK	1001	CYC	OC-C1C-C2C	-4.55	122.55	126.17
29	gF	201	PEB	CAB-C3B-C4B	4.55	133.06	125.01
29	gI	201	PEB	CAB-C3B-C4B	4.55	133.06	125.01
31	fP	1001	CYC	CAB-C3B-C4B	4.55	128.56	121.38
29	TI	201	PEB	CAB-C3B-C4B	4.55	133.06	125.01
31	1P	1001	CYC	CAB-C3B-C4B	4.55	128.56	121.38
29	D4	202	PEB	CHB-C4B-NB	-4.54	122.52	128.83
31	kP	1001	CYC	CAB-C3B-C4B	4.54	128.56	121.38
31	I1	1001	CYC	OC-C1C-C2C	-4.54	122.56	126.17
31	KI	1001	CYC	CMA-C3A-C4A	4.54	132.06	125.06
29	L3	202	PEB	OA-C1A-C2A	-4.54	122.56	126.17
29	LO	202	PEB	OA-C1A-C2A	-4.54	122.56	126.17
31	BP	1001	CYC	CAB-C3B-C4B	4.54	128.55	121.38
31	oP	1001	CYC	CAB-C3B-C4B	4.54	128.55	121.38
31	DF	1001	CYC	OC-C1C-C2C	-4.54	122.56	126.17
31	DI	1001	CYC	OC-C1C-C2C	-4.54	122.56	126.17
31	nP	1001	CYC	CAB-C3B-C4B	4.54	128.55	121.38
31	CF	1001	CYC	CMA-C3A-C4A	4.54	132.05	125.06
31	CI	1001	CYC	CMA-C3A-C4A	4.54	132.05	125.06
29	eF	201	PEB	CAB-C3B-C4B	4.54	133.04	125.01
29	eI	201	PEB	CAB-C3B-C4B	4.54	133.04	125.01
31	hP	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VR	202	PEB	C2A-C1A-NA	4.54	112.18	108.27
31	qP	1001	CYC	CAB-C3B-C4B	4.54	128.54	121.38
29	L4	202	PEB	CHB-C4B-NB	-4.54	122.54	128.83
29	aF	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	aI	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	RF	202	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	RI	202	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	ID	203	PEB	C2A-C1A-NA	4.53	112.18	108.27
29	YF	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	YI	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	FD	202	PEB	CHB-C4B-NB	-4.53	122.54	128.83
31	UP	1001	CYC	CAB-C3B-C4B	4.53	128.54	121.38
29	J3	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	JO	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	ED	201	PEB	C3D-C4D-ND	4.53	116.15	107.26
29	F4	202	PEB	CHB-C4B-NB	-4.53	122.54	128.83
29	A7	305	PEB	CHA-C1B-NB	-4.53	115.45	124.93
29	A9	305	PEB	CHA-C1B-NB	-4.53	115.45	124.93
29	cF	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	cI	201	PEB	CAB-C3B-C4B	4.53	133.03	125.01
29	YF	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	YI	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	JD	202	PEB	CHB-C4B-NB	-4.53	122.54	128.83
29	LD	202	PEB	CHB-C4B-NB	-4.53	122.54	128.83
31	KF	1001	CYC	CMA-C3A-C4A	4.53	132.04	125.06
31	DP	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
31	M1	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	JF	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	LF	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	JI	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	LI	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	MK	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
29	kF	201	PEB	CAB-C3B-C4B	4.53	133.02	125.01
29	kI	201	PEB	CAB-C3B-C4B	4.53	133.02	125.01
29	H1	1002	PEB	CHB-C4B-NB	-4.53	122.54	128.83
29	B3	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	BO	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	RR	202	PEB	C2A-C1A-NA	4.53	112.18	108.27
31	EK	1001	CYC	OC-C1C-C2C	-4.53	122.57	126.17
31	OP	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
29	F3	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17
29	FO	203	PEB	OA-C1A-C2A	-4.53	122.57	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VF	201	PEB	CAB-C3B-C4B	4.53	133.02	125.01
29	VI	201	PEB	CAB-C3B-C4B	4.53	133.02	125.01
31	sP	1001	CYC	CAB-C3B-C4B	4.53	128.53	121.38
31	MF	1001	CYC	CMA-C3A-C4A	4.53	132.03	125.06
31	MI	1001	CYC	CMA-C3A-C4A	4.53	132.03	125.06
29	D3	203	PEB	OA-C1A-C2A	-4.53	122.58	126.17
29	DO	203	PEB	OA-C1A-C2A	-4.53	122.58	126.17
29	E4	203	PEB	C2A-C1A-NA	4.53	112.17	108.27
29	E4	202	PEB	C3D-C4D-ND	4.52	116.14	107.26
31	KI	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	wP	1001	CYC	CAB-C3B-C4B	4.52	128.52	121.38
29	PF	201	PEB	CAB-C3B-C4B	4.52	133.01	125.01
29	PI	201	PEB	CAB-C3B-C4B	4.52	133.01	125.01
29	BD	202	PEB	CHB-C4B-NB	-4.52	122.55	128.83
29	HK	1002	PEB	CHB-C4B-NB	-4.52	122.55	128.83
29	NB	201	PEB	CHC-C1D-ND	4.52	119.20	113.95
29	NM	201	PEB	CHC-C1D-ND	4.52	119.20	113.95
31	HP	1001	CYC	CAB-C3B-C4B	4.52	128.52	121.38
31	K1	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	KK	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
29	B4	202	PEB	CHB-C4B-NB	-4.52	122.56	128.83
31	GF	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	GI	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
29	PB	201	PEB	CHC-C1D-ND	4.52	119.20	113.95
29	PM	201	PEB	CHC-C1D-ND	4.52	119.20	113.95
29	X2	201	PEB	C2A-C1A-NA	4.52	112.17	108.27
29	GD	202	PEB	C3D-C4D-ND	4.52	116.13	107.26
29	iF	201	PEB	CAB-C3B-C4B	4.52	133.01	125.01
29	iI	201	PEB	CAB-C3B-C4B	4.52	133.01	125.01
31	FP	1001	CYC	CAB-C3B-C4B	4.52	128.52	121.38
29	ID	202	PEB	C3D-C4D-ND	4.52	116.13	107.26
31	IK	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	EF	1001	CYC	CMA-C3A-C4A	4.52	132.02	125.06
31	EI	1001	CYC	CMA-C3A-C4A	4.52	132.02	125.06
29	V2	202	PEB	C2A-C1A-NA	4.52	112.17	108.27
31	GF	1001	CYC	CMA-C3A-C4A	4.52	132.02	125.06
31	GI	1001	CYC	CMA-C3A-C4A	4.52	132.02	125.06
29	PF	203	PEB	OA-C1A-C2A	-4.52	122.58	126.17
29	PI	203	PEB	OA-C1A-C2A	-4.52	122.58	126.17
31	HF	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	MF	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
31	HI	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	MI	1001	CYC	OC-C1C-C2C	-4.52	122.58	126.17
29	F1	1002	PEB	CHB-C4B-NB	-4.52	122.56	128.83
29	FK	1002	PEB	CHB-C4B-NB	-4.52	122.56	128.83
29	RF	201	PEB	CAB-C3B-C4B	4.51	133.00	125.01
29	RI	201	PEB	CAB-C3B-C4B	4.51	133.00	125.01
31	XP	1001	CYC	CAB-C3B-C4B	4.51	128.51	121.38
29	yJ	301	PEB	CMA-C2A-C1A	-4.51	102.67	112.40
29	yL	301	PEB	CMA-C2A-C1A	-4.51	102.67	112.40
29	XB	201	PEB	CHC-C1D-ND	4.51	119.19	113.95
29	XM	201	PEB	CHC-C1D-ND	4.51	119.19	113.95
29	I4	202	PEB	C3D-C4D-ND	4.51	116.11	107.26
29	CD	202	PEB	C3D-C4D-ND	4.51	116.11	107.26
29	NO	202	PEB	CHC-C4C-C3C	-4.51	122.64	130.34
29	EB	201	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	iF	203	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	iI	203	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	EM	201	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	U1	201	PEB	OD-C4D-ND	-4.51	119.25	125.93
29	UK	201	PEB	OD-C4D-ND	-4.51	119.25	125.93
29	J4	202	PEB	CHB-C4B-NB	-4.51	122.57	128.83
29	MD	202	PEB	C3D-C4D-ND	4.51	116.11	107.26
29	mF	201	PEB	CAB-C3B-C4B	4.51	132.99	125.01
29	mI	201	PEB	CAB-C3B-C4B	4.51	132.99	125.01
31	E1	1001	CYC	OC-C1C-C2C	-4.51	122.59	126.17
29	M2	201	PEB	C3D-C4D-ND	4.51	116.10	107.26
29	J1	1002	PEB	CHB-C4B-NB	-4.51	122.57	128.83
29	JK	1002	PEB	CHB-C4B-NB	-4.51	122.57	128.83
29	cF	202	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	cI	202	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	GB	201	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	TF	202	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	TI	202	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	GM	201	PEB	OA-C1A-C2A	-4.51	122.59	126.17
29	DA	203	PEB	CHB-C4B-NB	-4.51	122.58	128.83
29	DN	203	PEB	CHB-C4B-NB	-4.51	122.58	128.83
29	UR	201	PEB	C3D-C4D-ND	4.51	116.10	107.26
29	N3	202	PEB	CHC-C4C-C3C	-4.50	122.66	130.34
29	R2	202	PEB	C2A-C1A-NA	4.50	112.16	108.27
29	BA	203	PEB	CHB-C4B-NB	-4.50	122.58	128.83
29	BN	203	PEB	CHB-C4B-NB	-4.50	122.58	128.83
31	IF	1001	CYC	CMA-C3A-C4A	4.50	132.00	125.06
31	II	1001	CYC	CMA-C3A-C4A	4.50	132.00	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	a1	202	PEB	OD-C4D-ND	-4.50	119.26	125.93
29	aK	202	PEB	OD-C4D-ND	-4.50	119.26	125.93
29	LA	203	PEB	CHB-C4B-NB	-4.50	122.58	128.83
29	LN	203	PEB	CHB-C4B-NB	-4.50	122.58	128.83
29	FB	201	PEB	CHC-C1D-ND	4.50	119.17	113.95
29	FM	201	PEB	CHC-C1D-ND	4.50	119.17	113.95
29	H4	202	PEB	CHB-C4B-NB	-4.50	122.58	128.83
29	T2	202	PEB	C2A-C1A-NA	4.50	112.15	108.27
29	KD	202	PEB	C3D-C4D-ND	4.50	116.09	107.26
29	P1	202	PEB	OD-C4D-ND	-4.50	119.27	125.93
29	PK	202	PEB	OD-C4D-ND	-4.50	119.27	125.93
31	IP	1001	CYC	CAB-C3B-C4B	4.50	128.48	121.38
31	YP	1000	CYC	CMB-C2B-C1B	4.50	129.78	124.17
29	C4	202	PEB	C3D-C4D-ND	4.50	116.08	107.26
31	uP	1001	CYC	CAB-C3B-C4B	4.50	128.48	121.38
29	HA	203	PEB	CHB-C4B-NB	-4.50	122.59	128.83
29	HN	203	PEB	CHB-C4B-NB	-4.50	122.59	128.83
29	K4	202	PEB	C3D-C4D-ND	4.50	116.08	107.26
31	J9	1001	CYC	CBD-CAD-C3D	4.50	120.29	112.62
29	j1	203	PEB	OD-C4D-ND	-4.50	119.27	125.93
29	jK	203	PEB	OD-C4D-ND	-4.50	119.27	125.93
29	MR	201	PEB	C3D-C4D-ND	4.50	116.08	107.26
29	DD	202	PEB	CHB-C4B-NB	-4.50	122.59	128.83
29	MG	404	PEB	CHA-C1B-NB	-4.50	115.53	124.93
29	iB	201	PEB	CHC-C1D-ND	4.50	119.17	113.95
29	iM	201	PEB	CHC-C1D-ND	4.50	119.17	113.95
29	P2	201	PEB	C2A-C1A-NA	4.49	112.15	108.27
29	M4	202	PEB	C3D-C4D-ND	4.49	116.08	107.26
31	FF	1001	CYC	OC-C1C-C2C	-4.49	122.60	126.17
31	FI	1001	CYC	OC-C1C-C2C	-4.49	122.60	126.17
30	QB	201	PUB	CHB-C1C-NC	-4.49	122.59	128.83
30	QM	201	PUB	CHB-C1C-NC	-4.49	122.59	128.83
29	Q2	201	PEB	C3D-C4D-ND	4.49	116.07	107.26
29	D1	1002	PEB	CHB-C4B-NB	-4.49	122.59	128.83
29	L1	1002	PEB	CHB-C4B-NB	-4.49	122.59	128.83
29	FA	203	PEB	CHB-C4B-NB	-4.49	122.59	128.83
29	LK	1002	PEB	CHB-C4B-NB	-4.49	122.59	128.83
29	FN	203	PEB	CHB-C4B-NB	-4.49	122.59	128.83
31	D1	1003	CYC	OC-C1C-C2C	-4.49	122.60	126.17
29	W2	201	PEB	C3D-C4D-ND	4.49	116.07	107.26
29	c1	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
29	cK	202	PEB	OD-C4D-ND	-4.49	119.28	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DK	1002	PEB	CHB-C4B-NB	-4.49	122.60	128.83
29	MB	201	PEB	OA-C1A-C2A	-4.49	122.60	126.17
29	SB	201	PEB	OA-C1A-C2A	-4.49	122.60	126.17
29	MM	201	PEB	OA-C1A-C2A	-4.49	122.60	126.17
29	SM	201	PEB	OA-C1A-C2A	-4.49	122.60	126.17
29	cB	201	PEB	CHC-C1D-ND	4.49	119.16	113.95
29	cM	201	PEB	CHC-C1D-ND	4.49	119.16	113.95
29	G4	202	PEB	C3D-C4D-ND	4.49	116.07	107.26
31	J7	1001	CYC	CBD-CAD-C3D	4.49	120.28	112.62
29	iI	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
29	iK	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
29	jB	201	PEB	OA-C1A-C2A	-4.49	122.61	126.17
29	jM	201	PEB	OA-C1A-C2A	-4.49	122.61	126.17
29	V1	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
29	VK	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
31	L7	1001	CYC	CBD-CAD-C3D	4.49	120.28	112.62
29	QR	201	PEB	C3D-C4D-ND	4.49	116.06	107.26
29	R1	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
29	RK	202	PEB	OD-C4D-ND	-4.49	119.28	125.93
31	D7	1001	CYC	CBD-CAD-C3D	4.49	120.27	112.62
31	D9	1001	CYC	CBD-CAD-C3D	4.49	120.27	112.62
31	L9	1001	CYC	CBD-CAD-C3D	4.49	120.27	112.62
29	eF	203	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	eI	203	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	g1	202	PEB	OD-C4D-ND	-4.48	119.29	125.93
29	gK	202	PEB	OD-C4D-ND	-4.48	119.29	125.93
29	O2	201	PEB	C3D-C4D-ND	4.48	116.06	107.26
29	OR	201	PEB	C3D-C4D-ND	4.48	116.06	107.26
29	NK	1002	PEB	CHB-C4B-NB	-4.48	122.61	128.83
29	LB	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	LM	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	JA	203	PEB	CHB-C4B-NB	-4.48	122.61	128.83
29	JN	203	PEB	CHB-C4B-NB	-4.48	122.61	128.83
29	fB	201	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	fM	201	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	NF	1002	PEB	C3D-C4D-ND	4.48	116.05	107.26
29	NI	1002	PEB	C3D-C4D-ND	4.48	116.05	107.26
29	HB	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	HM	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	WR	201	PEB	C3D-C4D-ND	4.48	116.05	107.26
31	H7	1001	CYC	CBD-CAD-C3D	4.48	120.27	112.62
31	H9	1001	CYC	CBD-CAD-C3D	4.48	120.27	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MQ	406	PEB	CHA-C1B-NB	-4.48	115.56	124.93
29	RB	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	RM	201	PEB	CHC-C1D-ND	4.48	119.15	113.95
29	YB	202	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	YM	202	PEB	OA-C1A-C2A	-4.48	122.61	126.17
29	U2	201	PEB	C3D-C4D-ND	4.48	116.05	107.26
31	C1	1001	CYC	C2B-C1B-NB	4.48	113.54	106.99
29	JF	1002	PEB	C3D-C4D-ND	4.48	116.05	107.26
29	JI	1002	PEB	C3D-C4D-ND	4.48	116.05	107.26
29	k1	202	PEB	OD-C4D-ND	-4.48	119.30	125.93
29	kK	202	PEB	OD-C4D-ND	-4.48	119.30	125.93
29	M3	202	PEB	CHC-C4C-C3C	-4.48	122.70	130.34
29	MO	202	PEB	CHC-C4C-C3C	-4.48	122.70	130.34
29	kB	201	PEB	CHC-C1D-ND	4.48	119.14	113.95
29	kM	201	PEB	CHC-C1D-ND	4.48	119.14	113.95
29	gB	201	PEB	CHC-C1D-ND	4.47	119.14	113.95
29	gM	201	PEB	CHC-C1D-ND	4.47	119.14	113.95
29	QB	203	PEB	OA-C1A-C2A	-4.47	122.62	126.17
29	QM	203	PEB	OA-C1A-C2A	-4.47	122.62	126.17
29	e1	202	PEB	OD-C4D-ND	-4.47	119.31	125.93
29	eK	202	PEB	OD-C4D-ND	-4.47	119.31	125.93
29	MD	203	PEB	C2A-C1A-NA	4.47	112.13	108.27
29	lB	201	PEB	OA-C1A-C2A	-4.47	122.62	126.17
29	lM	201	PEB	OA-C1A-C2A	-4.47	122.62	126.17
29	HD	202	PEB	CHB-C4B-NB	-4.47	122.63	128.83
30	AF	303	PUB	CHA-C1B-C2B	-4.47	122.72	130.34
30	AI	303	PUB	CHA-C1B-C2B	-4.47	122.72	130.34
31	E1	1001	CYC	C2B-C1B-NB	4.47	113.53	106.99
29	Z1	201	PEB	OD-C4D-ND	-4.46	119.31	125.93
29	ZK	201	PEB	OD-C4D-ND	-4.46	119.31	125.93
29	IB	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17
29	IM	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17
31	F7	1001	CYC	CBD-CAD-C3D	4.46	120.24	112.62
29	JB	201	PEB	CHC-C1D-ND	4.46	119.13	113.95
29	JM	201	PEB	CHC-C1D-ND	4.46	119.13	113.95
29	dB	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17
29	VF	203	PEB	OA-C1A-C2A	-4.46	122.62	126.17
29	VI	203	PEB	OA-C1A-C2A	-4.46	122.62	126.17
29	dM	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17
31	EK	1001	CYC	C2B-C1B-NB	4.46	113.52	106.99
29	UB	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17
29	UM	201	PEB	OA-C1A-C2A	-4.46	122.62	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	I1	1001	CYC	C2B-C1B-NB	4.46	113.52	106.99
31	CK	1001	CYC	C2B-C1B-NB	4.46	113.52	106.99
29	Z1	201	PEB	C1C-CHB-C4B	4.46	134.14	128.81
29	ZK	201	PEB	C1C-CHB-C4B	4.46	134.14	128.81
29	DB	201	PEB	CHC-C1D-ND	4.46	119.12	113.95
29	DM	201	PEB	CHC-C1D-ND	4.46	119.12	113.95
29	VB	201	PEB	CHC-C1D-ND	4.46	119.12	113.95
29	VM	201	PEB	CHC-C1D-ND	4.46	119.12	113.95
31	N7	1001	CYC	CBD-CAD-C3D	4.46	120.23	112.62
31	N9	1001	CYC	CBD-CAD-C3D	4.46	120.23	112.62
29	hB	201	PEB	OA-C1A-C2A	-4.45	122.63	126.17
29	hM	201	PEB	OA-C1A-C2A	-4.45	122.63	126.17
29	GD	203	PEB	C2A-C1A-NA	4.45	112.11	108.27
31	IK	1001	CYC	C2B-C1B-NB	4.45	113.51	106.99
31	F9	1001	CYC	CBD-CAD-C3D	4.45	120.22	112.62
29	gF	203	PEB	OA-C1A-C2A	-4.45	122.63	126.17
29	gI	203	PEB	OA-C1A-C2A	-4.45	122.63	126.17
29	mB	201	PEB	CHC-C1D-ND	4.45	119.11	113.95
29	mM	201	PEB	CHC-C1D-ND	4.45	119.11	113.95
31	K1	1001	CYC	C2B-C1B-NB	4.45	113.50	106.99
31	KK	1001	CYC	C2B-C1B-NB	4.45	113.50	106.99
29	G4	203	PEB	C2A-C1A-NA	4.45	112.11	108.27
29	ED	202	PEB	C2A-C1A-NA	4.45	112.11	108.27
29	LF	1002	PEB	C3D-C4D-ND	4.45	115.99	107.26
29	LI	1002	PEB	C3D-C4D-ND	4.45	115.99	107.26
29	HF	1002	PEB	C3D-C4D-ND	4.45	115.99	107.26
29	HI	1002	PEB	C3D-C4D-ND	4.45	115.99	107.26
29	WB	201	PEB	OA-C1A-C2A	-4.45	122.64	126.17
29	WM	201	PEB	OA-C1A-C2A	-4.45	122.64	126.17
29	c1	202	PEB	C1C-CHB-C4B	4.45	134.12	128.81
29	cK	202	PEB	C1C-CHB-C4B	4.45	134.12	128.81
29	KB	201	PEB	OA-C1A-C2A	-4.45	122.64	126.17
29	KM	201	PEB	OA-C1A-C2A	-4.45	122.64	126.17
29	FF	1002	PEB	C3D-C4D-ND	4.45	115.98	107.26
29	FI	1002	PEB	C3D-C4D-ND	4.45	115.98	107.26
29	DF	1002	PEB	C3D-C4D-ND	4.44	115.98	107.26
29	DI	1002	PEB	C3D-C4D-ND	4.44	115.98	107.26
31	KP	1001	CYC	CMB-C2B-C1B	4.44	129.72	124.17
29	mF	203	PEB	OA-C1A-C2A	-4.44	122.64	126.17
29	mI	203	PEB	OA-C1A-C2A	-4.44	122.64	126.17
29	NO	202	PEB	CHC-C1D-ND	-4.44	108.79	113.95
31	D1	1003	CYC	C2B-C1B-NB	4.44	113.49	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	GK	1001	CYC	C2B-C1B-NB	4.44	113.49	106.99
29	ZB	201	PEB	CHC-C1D-ND	4.44	119.10	113.95
29	ZM	201	PEB	CHC-C1D-ND	4.44	119.10	113.95
30	wL	305	PUB	CMA-C2A-C1A	4.44	131.83	121.39
29	GB	202	PEB	C1C-CHB-C4B	-4.44	123.51	128.81
29	GM	202	PEB	C1C-CHB-C4B	-4.44	123.51	128.81
29	OB	201	PEB	OA-C1A-C2A	-4.44	122.64	126.17
29	OM	201	PEB	OA-C1A-C2A	-4.44	122.64	126.17
29	M3	202	PEB	CHC-C1D-ND	-4.44	108.80	113.95
29	MO	202	PEB	CHC-C1D-ND	-4.44	108.80	113.95
29	QB	204	PEB	C1C-CHB-C4B	-4.44	123.51	128.81
29	QM	204	PEB	C1C-CHB-C4B	-4.44	123.51	128.81
29	TB	201	PEB	CHC-C1D-ND	4.44	119.10	113.95
29	TM	201	PEB	CHC-C1D-ND	4.44	119.10	113.95
31	CF	1001	CYC	C2B-C1B-NB	4.43	113.48	106.99
31	CI	1001	CYC	C2B-C1B-NB	4.43	113.48	106.99
29	N1	1002	PEB	CHB-C4B-NB	-4.43	122.68	128.83
29	V1	203	PEB	CHB-C4B-NB	-4.43	122.68	128.83
29	VK	203	PEB	CHB-C4B-NB	-4.43	122.68	128.83
31	M1	1001	CYC	C2B-C1B-NB	4.43	113.48	106.99
31	MK	1001	CYC	C2B-C1B-NB	4.43	113.48	106.99
29	PR	201	PEB	C2A-C1A-NA	4.43	112.09	108.27
29	kF	203	PEB	OA-C1A-C2A	-4.43	122.65	126.17
29	kI	203	PEB	OA-C1A-C2A	-4.43	122.65	126.17
29	lB	202	PEB	C1C-CHB-C4B	-4.43	123.52	128.81
29	lM	202	PEB	C1C-CHB-C4B	-4.43	123.52	128.81
29	MB	202	PEB	C1C-CHB-C4B	-4.43	123.52	128.81
29	MM	202	PEB	C1C-CHB-C4B	-4.43	123.52	128.81
29	eB	201	PEB	CHC-C1D-ND	4.43	119.09	113.95
29	eM	201	PEB	CHC-C1D-ND	4.43	119.09	113.95
29	N3	202	PEB	CHC-C1D-ND	-4.43	108.81	113.95
29	CB	201	PEB	OA-C1A-C2A	-4.43	122.65	126.17
29	CM	201	PEB	OA-C1A-C2A	-4.43	122.65	126.17
29	GD	202	PEB	OD-C4D-C3D	-4.43	119.43	129.46
31	VP	1001	CYC	C4D-CHA-C1A	4.43	134.10	128.81
29	aF	203	PEB	OA-C1A-C2A	-4.43	122.65	126.17
29	aI	203	PEB	OA-C1A-C2A	-4.43	122.65	126.17
31	cP	1001	CYC	CMB-C2B-C1B	4.43	129.69	124.17
29	dB	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
29	dM	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
29	YB	203	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
29	YM	203	PEB	C1C-CHB-C4B	-4.42	123.53	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	EP	1001	CYC	CMB-C2B-C1B	4.42	129.69	124.17
29	U1	201	PEB	C1C-CHB-C4B	4.42	134.09	128.81
29	jB	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
29	UK	201	PEB	C1C-CHB-C4B	4.42	134.09	128.81
29	jM	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
31	AP	1001	CYC	CMB-C2B-C1B	4.42	129.69	124.17
29	g1	202	PEB	C1C-CHB-C4B	4.42	134.09	128.81
29	gK	202	PEB	C1C-CHB-C4B	4.42	134.09	128.81
29	QB	203	PEB	C3D-C4D-ND	4.42	115.93	107.26
29	QM	203	PEB	C3D-C4D-ND	4.42	115.93	107.26
31	IF	1001	CYC	C2B-C1B-NB	4.42	113.45	106.99
31	II	1001	CYC	C2B-C1B-NB	4.42	113.45	106.99
29	WB	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
29	WM	202	PEB	C1C-CHB-C4B	-4.42	123.53	128.81
31	KF	1001	CYC	C2B-C1B-NB	4.42	113.45	106.99
29	L5	202	PEB	CHC-C4C-C3C	-4.42	122.81	130.34
31	CP	1001	CYC	CMB-C2B-C1B	4.41	129.68	124.17
31	iP	1001	CYC	CMB-C2B-C1B	4.41	129.68	124.17
29	G8	203	PEB	OA-C1A-C2A	-4.41	122.66	126.17
29	aB	201	PEB	C3D-C4D-ND	4.41	115.92	107.26
29	aM	201	PEB	C3D-C4D-ND	4.41	115.92	107.26
29	KB	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
29	fB	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
29	KM	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
29	fM	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
31	KI	1001	CYC	C2B-C1B-NB	4.41	113.45	106.99
29	fB	201	PEB	C3D-C4D-ND	4.41	115.92	107.26
29	fM	201	PEB	C3D-C4D-ND	4.41	115.92	107.26
31	RP	1001	CYC	CMB-C2B-C1B	4.41	129.68	124.17
31	MF	1001	CYC	C2B-C1B-NB	4.41	113.45	106.99
31	MI	1001	CYC	C2B-C1B-NB	4.41	113.45	106.99
30	A1	304	PUB	CHC-C1D-ND	-4.41	108.14	113.72
30	AK	304	PUB	CHC-C1D-ND	-4.41	108.14	113.72
29	a1	202	PEB	C1C-CHB-C4B	4.41	134.08	128.81
29	aK	202	PEB	C1C-CHB-C4B	4.41	134.08	128.81
31	F7	1001	CYC	CHB-C4A-C3A	4.41	136.24	124.90
29	ID	202	PEB	OD-C4D-C3D	-4.41	119.47	129.46
30	wJ	305	PUB	CMA-C2A-C1A	4.41	131.76	121.39
29	OB	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
29	OM	202	PEB	C1C-CHB-C4B	-4.41	123.54	128.81
29	CB	201	PEB	C3D-C4D-ND	4.41	115.91	107.26
29	CM	201	PEB	C3D-C4D-ND	4.41	115.91	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	MQ	405	PUB	C1C-C2C-C3C	-4.41	101.91	106.78
29	G4	202	PEB	OD-C4D-C3D	-4.41	119.48	129.46
29	OB	201	PEB	C3D-C4D-ND	4.41	115.90	107.26
29	OM	201	PEB	C3D-C4D-ND	4.41	115.90	107.26
29	K4	203	PEB	C2A-C1A-NA	4.41	112.07	108.27
30	MG	403	PUB	C1C-C2C-C3C	-4.41	101.91	106.78
29	mF	202	PEB	CHB-C4B-NB	-4.41	122.72	128.83
29	mI	202	PEB	CHB-C4B-NB	-4.41	122.72	128.83
29	EB	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	EM	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
31	xP	1001	CYC	C4D-CHA-C1A	4.40	134.07	128.81
30	xL	305	PUB	CMA-C2A-C1A	4.40	131.75	121.39
29	UB	201	PEB	C3D-C4D-ND	4.40	115.90	107.26
29	UM	201	PEB	C3D-C4D-ND	4.40	115.90	107.26
29	hB	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	hM	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	C4	203	PEB	C2A-C1A-NA	4.40	112.07	108.27
29	RR	201	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
31	GP	1001	CYC	CHB-C4A-C3A	4.40	136.22	124.90
31	E7	1001	CYC	C1B-C2B-C3B	-4.40	103.28	107.87
31	E9	1001	CYC	C1B-C2B-C3B	-4.40	103.28	107.87
29	hB	201	PEB	C3D-C4D-ND	4.40	115.90	107.26
29	hM	201	PEB	C3D-C4D-ND	4.40	115.90	107.26
29	T2	201	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	TR	201	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	i1	202	PEB	C1C-CHB-C4B	4.40	134.07	128.81
29	iK	202	PEB	C1C-CHB-C4B	4.40	134.07	128.81
29	IB	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	IM	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	F5	202	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	F8	202	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	G5	203	PEB	OA-C1A-C2A	-4.40	122.67	126.17
31	GP	1001	CYC	CMB-C2B-C1B	4.40	129.66	124.17
31	PP	1001	CYC	CMB-C2B-C1B	4.40	129.66	124.17
31	pP	1001	CYC	CMB-C2B-C1B	4.40	129.66	124.17
29	e2	402	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	N2	201	PEB	CHC-C4C-C3C	-4.40	122.83	130.34
29	KB	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	KM	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	CB	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
29	CM	202	PEB	C1C-CHB-C4B	-4.40	123.55	128.81
31	JP	1001	CYC	CMB-C2B-C1B	4.40	129.66	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KD	203	PEB	C2A-C1A-NA	4.40	112.06	108.27
29	E4	202	PEB	OD-C4D-C3D	-4.40	119.49	129.46
29	XR	201	PEB	CHC-C4C-C3C	-4.40	122.84	130.34
29	jB	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	jM	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	G8	202	PEB	CHC-C4C-C3C	-4.40	122.84	130.34
29	H8	202	PEB	CHC-C4C-C3C	-4.40	122.84	130.34
29	P1	203	PEB	CHB-C4B-NB	-4.40	122.73	128.83
29	PK	203	PEB	CHB-C4B-NB	-4.40	122.73	128.83
29	MB	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	MM	201	PEB	C3D-C4D-ND	4.40	115.89	107.26
29	V1	202	PEB	C1C-CHB-C4B	4.40	134.06	128.81
29	VK	202	PEB	C1C-CHB-C4B	4.40	134.06	128.81
29	I4	202	PEB	OD-C4D-C3D	-4.40	119.50	129.46
29	EB	201	PEB	C3D-C4D-ND	4.40	115.88	107.26
29	dB	201	PEB	C3D-C4D-ND	4.40	115.88	107.26
29	EM	201	PEB	C3D-C4D-ND	4.40	115.88	107.26
29	dM	201	PEB	C3D-C4D-ND	4.40	115.88	107.26
29	P1	202	PEB	C1C-CHB-C4B	4.40	134.06	128.81
29	PK	202	PEB	C1C-CHB-C4B	4.40	134.06	128.81
29	H5	203	PEB	OA-C1A-C2A	-4.40	122.68	126.17
31	rP	1001	CYC	CMB-C2B-C1B	4.39	129.66	124.17
31	L9	1001	CYC	CHB-C4A-C3A	4.39	136.20	124.90
31	F9	1001	CYC	CHB-C4A-C3A	4.39	136.20	124.90
29	I4	201	PEB	C3B-C4B-NB	4.39	116.44	110.05
29	ED	201	PEB	OD-C4D-C3D	-4.39	119.50	129.46
31	GF	1001	CYC	C2B-C1B-NB	4.39	113.42	106.99
31	GI	1001	CYC	C2B-C1B-NB	4.39	113.42	106.99
29	YB	202	PEB	C3D-C4D-ND	4.39	115.88	107.26
29	YM	202	PEB	C3D-C4D-ND	4.39	115.88	107.26
31	lP	1001	CYC	CMB-C2B-C1B	4.39	129.65	124.17
29	k1	203	PEB	CHB-C4B-NB	-4.39	122.73	128.83
29	eF	202	PEB	CHB-C4B-NB	-4.39	122.73	128.83
29	eI	202	PEB	CHB-C4B-NB	-4.39	122.73	128.83
29	kK	203	PEB	CHB-C4B-NB	-4.39	122.73	128.83
29	SB	202	PEB	C1C-CHB-C4B	-4.39	123.56	128.81
29	SM	202	PEB	C1C-CHB-C4B	-4.39	123.56	128.81
31	N7	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
31	N9	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
29	H5	202	PEB	CHC-C4C-C3C	-4.39	122.85	130.34
29	F5	203	PEB	OA-C1A-C2A	-4.39	122.68	126.17
29	F8	203	PEB	OA-C1A-C2A	-4.39	122.68	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SB	201	PEB	C3D-C4D-ND	4.39	115.87	107.26
29	SM	201	PEB	C3D-C4D-ND	4.39	115.87	107.26
30	AB	304	PUB	CMA-C2A-C1A	4.39	131.72	121.39
31	D7	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
31	D9	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
29	R1	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	RK	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	L8	202	PEB	CHC-C4C-C3C	-4.39	122.85	130.34
31	EF	1001	CYC	C2B-C1B-NB	4.39	113.41	106.99
31	EI	1001	CYC	C2B-C1B-NB	4.39	113.41	106.99
30	AF	303	PUB	CMA-C2A-C1A	4.39	131.71	121.39
30	AI	303	PUB	CMA-C2A-C1A	4.39	131.71	121.39
29	e1	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	k1	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	eK	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	kK	202	PEB	C1C-CHB-C4B	4.39	134.05	128.81
29	OF	203	PEB	CHB-C4B-NB	-4.39	122.74	128.83
29	OI	203	PEB	CHB-C4B-NB	-4.39	122.74	128.83
31	J7	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
29	K4	202	PEB	OD-C4D-C3D	-4.39	119.52	129.46
31	mP	1001	CYC	CHB-C4A-C3A	4.39	136.19	124.90
31	L7	1001	CYC	CHB-C4A-C3A	4.39	136.18	124.90
31	J9	1001	CYC	CHB-C4A-C3A	4.39	136.18	124.90
29	NR	201	PEB	CHC-C4C-C3C	-4.39	122.85	130.34
29	aB	202	PEB	C1C-CHB-C4B	-4.39	123.57	128.81
29	aM	202	PEB	C1C-CHB-C4B	-4.39	123.57	128.81
29	VR	201	PEB	CHC-C4C-C3C	-4.39	122.86	130.34
31	mP	1001	CYC	CMB-C2B-C1B	4.39	129.64	124.17
31	C7	1001	CYC	C1B-C2B-C3B	-4.39	103.29	107.87
31	C9	1001	CYC	C1B-C2B-C3B	-4.39	103.29	107.87
29	B5	202	PEB	CHC-C4C-C3C	-4.38	122.86	130.34
29	IA	201	PEB	C3B-C4B-NB	4.38	116.43	110.05
29	IN	201	PEB	C3B-C4B-NB	4.38	116.43	110.05
29	KA	202	PEB	CAB-C3B-C4B	4.38	132.76	125.01
29	KN	202	PEB	CAB-C3B-C4B	4.38	132.76	125.01
29	CD	202	PEB	OD-C4D-C3D	-4.38	119.53	129.46
29	UB	202	PEB	C1C-CHB-C4B	-4.38	123.57	128.81
29	MQ	401	PEB	C1C-CHB-C4B	-4.38	123.57	128.81
29	R2	201	PEB	CHC-C4C-C3C	-4.38	122.86	130.34
29	WB	201	PEB	C3D-C4D-ND	4.38	115.86	107.26
29	WM	201	PEB	C3D-C4D-ND	4.38	115.86	107.26
29	B5	203	PEB	OA-C1A-C2A	-4.38	122.69	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AF	304	PEB	CHA-C1B-NB	-4.38	115.77	124.93
29	AI	304	PEB	CHA-C1B-NB	-4.38	115.77	124.93
29	B8	202	PEB	CHC-C4C-C3C	-4.38	122.86	130.34
31	tP	1001	CYC	CMB-C2B-C1B	4.38	129.64	124.17
31	vP	1001	CYC	CMB-C2B-C1B	4.38	129.64	124.17
29	IB	201	PEB	C3D-C4D-ND	4.38	115.86	107.26
29	IM	201	PEB	C3D-C4D-ND	4.38	115.86	107.26
30	AM	304	PUB	CMA-C2A-C1A	4.38	131.69	121.39
29	N7	1002	PEB	CMD-C2D-C3D	4.38	136.24	130.06
29	N9	1002	PEB	CMD-C2D-C3D	4.38	136.24	130.06
29	MD	202	PEB	OD-C4D-C3D	-4.38	119.54	129.46
31	AP	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
29	G5	202	PEB	CHC-C4C-C3C	-4.38	122.87	130.34
31	G9	1001	CYC	C1B-C2B-C3B	-4.38	103.30	107.87
29	YF	202	PEB	CHB-C4B-NB	-4.38	122.75	128.83
29	YI	202	PEB	CHB-C4B-NB	-4.38	122.75	128.83
31	gP	1001	CYC	CMB-C2B-C1B	4.38	129.63	124.17
31	H7	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
31	H9	1001	CYC	CHB-C4A-C3A	4.38	136.16	124.90
29	C4	201	PEB	C3B-C4B-NB	4.38	116.42	110.05
29	lB	201	PEB	C3D-C4D-ND	4.38	115.84	107.26
29	lM	201	PEB	C3D-C4D-ND	4.38	115.84	107.26
31	lP	1001	CYC	CHB-C4A-C3A	4.38	136.15	124.90
29	aB	201	PEB	OA-C1A-C2A	-4.38	122.69	126.17
29	aM	201	PEB	OA-C1A-C2A	-4.38	122.69	126.17
31	G7	1001	CYC	C1B-C2B-C3B	-4.38	103.31	107.87
31	eP	1001	CYC	CHB-C4A-C3A	4.38	136.15	124.90
29	AB	301	PEB	CHA-C1B-NB	-4.37	115.78	124.93
29	V2	201	PEB	CHC-C4C-C3C	-4.37	122.88	130.34
29	g1	203	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	m1	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	gK	203	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	mK	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	j1	203	PEB	C1C-CHB-C4B	4.37	134.03	128.81
29	jK	203	PEB	C1C-CHB-C4B	4.37	134.03	128.81
29	GB	201	PEB	C3D-C4D-ND	4.37	115.84	107.26
29	GM	201	PEB	C3D-C4D-ND	4.37	115.84	107.26
29	CA	201	PEB	C3B-C4B-NB	4.37	116.41	110.05
29	CN	201	PEB	C3B-C4B-NB	4.37	116.41	110.05
31	HK	1001	CYC	CHB-C4A-NA	-4.37	115.78	124.93
31	tP	1001	CYC	CHB-C4A-C3A	4.37	136.14	124.90
31	I7	1001	CYC	C1B-C2B-C3B	-4.37	103.31	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	I9	1001	CYC	C1B-C2B-C3B	-4.37	103.31	107.87
29	AA	201	PEB	C3B-C4B-NB	4.37	116.41	110.05
29	AN	201	PEB	C3B-C4B-NB	4.37	116.41	110.05
30	xJ	305	PUB	CMA-C2A-C1A	4.37	131.67	121.39
31	cP	1001	CYC	CHB-C4A-C3A	4.37	136.14	124.90
29	gF	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	kF	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	gI	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	kI	202	PEB	CHB-C4B-NB	-4.37	122.76	128.83
29	AM	301	PEB	CHA-C1B-NB	-4.37	115.79	124.93
29	cI	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	VF	202	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	VI	202	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	cK	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
31	KP	1001	CYC	CHB-C4A-C3A	4.37	136.14	124.90
31	eP	1001	CYC	CMB-C2B-C1B	4.37	129.62	124.17
29	aI	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	aK	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	C4	202	PEB	OD-C4D-C3D	-4.37	119.56	129.46
29	M4	202	PEB	OD-C4D-C3D	-4.37	119.56	129.46
31	TP	1001	CYC	CHB-C4A-C3A	4.37	136.13	124.90
30	yJ	302	PUB	C1D-CHC-C4C	-4.37	103.87	113.37
30	yL	302	PUB	C1D-CHC-C4C	-4.37	103.87	113.37
29	KA	201	PEB	C3B-C4B-NB	4.37	116.40	110.05
29	KN	201	PEB	C3B-C4B-NB	4.37	116.40	110.05
31	EP	1001	CYC	CHB-C4A-C3A	4.37	136.13	124.90
30	MN	403	PUB	OD-C4D-ND	-4.37	119.46	125.93
31	JP	1001	CYC	CHB-C4A-C3A	4.37	136.13	124.90
29	KD	202	PEB	OD-C4D-C3D	-4.37	119.57	129.46
29	J5	201	PEB	CMB-C2B-C3B	-4.37	114.27	126.12
29	J8	201	PEB	CMB-C2B-C3B	-4.37	114.27	126.12
31	K9	1001	CYC	C1B-C2B-C3B	-4.37	103.31	107.87
29	dD	401	PEB	C3B-C4B-NB	4.37	116.40	110.05
29	iI	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
29	iK	203	PEB	CHB-C4B-NB	-4.37	122.77	128.83
31	vP	1001	CYC	CHB-C4A-C3A	4.37	136.12	124.90
31	DK	1001	CYC	CHB-C4A-NA	-4.36	115.80	124.93
29	E4	201	PEB	C3B-C4B-NB	4.36	116.40	110.05
29	aF	202	PEB	CHB-C4B-NB	-4.36	122.77	128.83
29	aI	202	PEB	CHB-C4B-NB	-4.36	122.77	128.83
31	pP	1001	CYC	CHB-C4A-C3A	4.36	136.12	124.90
29	EC	202	PEB	CHC-C4C-C3C	-4.36	122.89	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	EE	202	PEB	CHC-C4C-C3C	-4.36	122.89	130.34
29	J9	1002	PEB	CMD-C2D-C3D	4.36	136.22	130.06
30	MA	403	PUB	OD-C4D-ND	-4.36	119.47	125.93
31	rP	1001	CYC	CHB-C4A-C3A	4.36	136.12	124.90
29	RR	202	PEB	C1C-CHB-C4B	4.36	134.02	128.81
31	NP	1001	CYC	CMB-C2B-C1B	4.36	129.61	124.17
31	CP	1001	CYC	CHB-C4A-C3A	4.36	136.12	124.90
29	IC	202	PEB	CHC-C4C-C3C	-4.36	122.90	130.34
29	IE	202	PEB	CHC-C4C-C3C	-4.36	122.90	130.34
31	K7	1001	CYC	C1B-C2B-C3B	-4.36	103.32	107.87
31	L1	1001	CYC	CHB-C4A-NA	-4.36	115.81	124.93
31	LK	1001	CYC	CHB-C4A-NA	-4.36	115.81	124.93
31	gP	1001	CYC	CHB-C4A-C3A	4.36	136.11	124.90
29	Y1	202	PEB	CHB-C4B-NB	-4.36	122.78	128.83
29	YK	202	PEB	CHB-C4B-NB	-4.36	122.78	128.83
29	L7	1002	PEB	CMD-C2D-C3D	4.36	136.21	130.06
29	GA	202	PEB	CAB-C3B-C4B	4.36	132.72	125.01
29	GN	202	PEB	CAB-C3B-C4B	4.36	132.72	125.01
31	NP	1001	CYC	CHB-C4A-C3A	4.36	136.11	124.90
31	PP	1001	CYC	CHB-C4A-C3A	4.36	136.11	124.90
29	e1	203	PEB	CHB-C4B-NB	-4.36	122.78	128.83
29	eK	203	PEB	CHB-C4B-NB	-4.36	122.78	128.83
29	GA	201	PEB	C3B-C4B-NB	4.36	116.39	110.05
29	GN	201	PEB	C3B-C4B-NB	4.36	116.39	110.05
29	XR	202	PEB	C1C-CHB-C4B	4.36	134.01	128.81
29	J7	1002	PEB	CMD-C2D-C3D	4.36	136.21	130.06
29	H7	1002	PEB	CMD-C2D-C3D	4.35	136.20	130.06
29	H9	1002	PEB	CMD-C2D-C3D	4.35	136.20	130.06
29	SR	201	PEB	OA-C1A-C2A	-4.35	122.71	126.17
31	iP	1001	CYC	CHB-C4A-C3A	4.35	136.09	124.90
31	H1	1001	CYC	CHB-C4A-NA	-4.35	115.83	124.93
31	F1	1001	CYC	CHB-C4A-NA	-4.35	115.83	124.93
31	FK	1001	CYC	CHB-C4A-NA	-4.35	115.83	124.93
29	IA	202	PEB	CAB-C3B-C4B	4.35	132.71	125.01
29	IN	202	PEB	CAB-C3B-C4B	4.35	132.71	125.01
29	EA	201	PEB	C3B-C4B-NB	4.35	116.38	110.05
29	EN	201	PEB	C3B-C4B-NB	4.35	116.38	110.05
29	AG	202	PEB	CHB-C4B-NB	-4.35	122.79	128.83
29	AQ	202	PEB	CHB-C4B-NB	-4.35	122.79	128.83
29	X2	201	PEB	C1C-CHB-C4B	4.35	134.00	128.81
31	TP	1001	CYC	CMB-C2B-C1B	4.35	129.60	124.17
29	CG	202	PEB	CHB-C4B-NB	-4.35	122.79	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CQ	202	PEB	CHB-C4B-NB	-4.35	122.79	128.83
31	D1	1001	CYC	CHB-C4A-NA	-4.35	115.84	124.93
29	R1	203	PEB	CHB-C4B-NB	-4.35	122.80	128.83
29	PF	202	PEB	CHB-C4B-NB	-4.35	122.80	128.83
29	PI	202	PEB	CHB-C4B-NB	-4.35	122.80	128.83
29	RK	203	PEB	CHB-C4B-NB	-4.35	122.80	128.83
29	CC	202	PEB	CHC-C4C-C3C	-4.35	122.92	130.34
29	CE	202	PEB	CHC-C4C-C3C	-4.35	122.92	130.34
31	M7	1001	CYC	C1B-C2B-C3B	-4.35	103.33	107.87
29	B8	203	PEB	OA-C1A-C2A	-4.35	122.72	126.17
30	AB	305	PUB	CMA-C2A-C1A	4.35	131.61	121.39
29	G4	201	PEB	C3B-C4B-NB	4.34	116.37	110.05
31	M9	1001	CYC	C1B-C2B-C3B	-4.34	103.34	107.87
31	NK	1001	CYC	CHB-C4A-NA	-4.34	115.85	124.93
29	T1	202	PEB	CHB-C4B-NB	-4.34	122.80	128.83
29	IG	202	PEB	CHB-C4B-NB	-4.34	122.80	128.83
29	TK	202	PEB	CHB-C4B-NB	-4.34	122.80	128.83
29	IQ	202	PEB	CHB-C4B-NB	-4.34	122.80	128.83
29	F7	1002	PEB	CMD-C2D-C3D	4.34	136.19	130.06
29	F9	1002	PEB	CMD-C2D-C3D	4.34	136.19	130.06
29	L8	203	PEB	OA-C1A-C2A	-4.34	122.72	126.17
31	J1	1001	CYC	CHB-C4A-NA	-4.34	115.85	124.93
31	JK	1001	CYC	CHB-C4A-NA	-4.34	115.85	124.93
29	AA	202	PEB	CAB-C3B-C4B	4.34	132.69	125.01
29	AN	202	PEB	CAB-C3B-C4B	4.34	132.69	125.01
31	RP	1001	CYC	CHB-C4A-C3A	4.34	136.06	124.90
29	L9	1002	PEB	CMD-C2D-C3D	4.34	136.18	130.06
29	P2	201	PEB	C1C-CHB-C4B	4.34	133.99	128.81
29	GD	201	PEB	C3B-C4B-NB	4.34	116.36	110.05
29	MD	201	PEB	C3B-C4B-NB	4.34	116.36	110.05
29	dF	201	PEB	CHB-C4B-NB	-4.34	122.81	128.83
29	dI	201	PEB	CHB-C4B-NB	-4.34	122.81	128.83
29	Y7	203	PEB	C4B-C3B-C2B	-4.34	101.98	106.78
29	Y9	203	PEB	C4B-C3B-C2B	-4.34	101.98	106.78
29	M4	201	PEB	C3B-C4B-NB	4.34	116.36	110.05
30	AM	305	PUB	CMA-C2A-C1A	4.34	131.59	121.39
29	KC	203	PEB	CHC-C4C-C3C	-4.34	122.94	130.34
29	KE	203	PEB	CHC-C4C-C3C	-4.34	122.94	130.34
29	H8	203	PEB	OA-C1A-C2A	-4.34	122.73	126.17
29	EA	202	PEB	CAB-C3B-C4B	4.33	132.68	125.01
29	EN	202	PEB	CAB-C3B-C4B	4.33	132.68	125.01
29	R2	202	PEB	C1C-CHB-C4B	4.33	133.99	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NR	202	PEB	C1C-CHB-C4B	4.33	133.99	128.81
29	m7	203	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	m9	203	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	K4	201	PEB	C3B-C4B-NB	4.33	116.35	110.05
29	GC	202	PEB	CHC-C4C-C3C	-4.33	122.95	130.34
29	GE	202	PEB	CHC-C4C-C3C	-4.33	122.95	130.34
29	L5	203	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	KG	202	PEB	CHB-C4B-NB	-4.33	122.82	128.83
29	KQ	202	PEB	CHB-C4B-NB	-4.33	122.82	128.83
29	K4	202	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	KD	202	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	G4	202	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	UF	201	PEB	CHB-C4B-NB	-4.33	122.82	128.83
29	UI	201	PEB	CHB-C4B-NB	-4.33	122.82	128.83
29	D7	1002	PEB	CMD-C2D-C3D	4.33	136.17	130.06
29	D9	1002	PEB	CMD-C2D-C3D	4.33	136.17	130.06
29	k1	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	TF	201	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	kK	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	i7	203	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	i9	203	PEB	C4B-C3B-C2B	-4.33	101.99	106.78
29	CD	203	PEB	C2A-C1A-NA	4.33	112.00	108.27
29	ID	201	PEB	C3B-C4B-NB	4.33	116.34	110.05
30	MA	402	PUB	CHC-C1D-ND	-4.33	108.25	113.72
29	VR	202	PEB	C1C-CHB-C4B	4.33	133.98	128.81
29	iF	202	PEB	CHB-C4B-NB	-4.33	122.83	128.83
29	iI	202	PEB	CHB-C4B-NB	-4.33	122.83	128.83
29	P7	202	PEB	CHB-C4B-NB	-4.33	122.83	128.83
29	P9	202	PEB	CHB-C4B-NB	-4.33	122.83	128.83
29	V1	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	g1	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	VK	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	gK	202	PEB	OA-C1A-C2A	-4.33	122.73	126.17
29	EG	202	PEB	CHB-C4B-NB	-4.32	122.83	128.83
29	EQ	202	PEB	CHB-C4B-NB	-4.32	122.83	128.83
29	T7	203	PEB	C4B-C3B-C2B	-4.32	102.00	106.78
29	T9	203	PEB	C4B-C3B-C2B	-4.32	102.00	106.78
29	GG	202	PEB	CHB-C4B-NB	-4.32	122.83	128.83
29	GQ	202	PEB	CHB-C4B-NB	-4.32	122.83	128.83
29	M4	202	PEB	C4B-C3B-C2B	-4.32	102.00	106.78
29	CD	201	PEB	C3B-C4B-NB	4.32	116.33	110.05
29	GD	202	PEB	C4B-C3B-C2B	-4.32	102.00	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	N1	1001	CYC	CHB-C4A-NA	-4.32	115.90	124.93
29	A1	302	PEB	CHC-C1D-ND	-4.32	108.93	113.95
29	AK	302	PEB	CHC-C1D-ND	-4.32	108.93	113.95
29	PR	201	PEB	C1C-CHB-C4B	4.32	133.97	128.81
29	e1	202	PEB	OA-C1A-C2A	-4.32	122.74	126.17
29	j1	203	PEB	OA-C1A-C2A	-4.32	122.74	126.17
29	eK	202	PEB	OA-C1A-C2A	-4.32	122.74	126.17
29	jK	203	PEB	OA-C1A-C2A	-4.32	122.74	126.17
29	V7	203	PEB	C4B-C3B-C2B	-4.32	102.00	106.78
29	V9	203	PEB	C4B-C3B-C2B	-4.32	102.00	106.78
29	KD	201	PEB	C3B-C4B-NB	4.31	116.32	110.05
29	AC	202	PEB	CHC-C4C-C3C	-4.31	122.98	130.34
29	AE	202	PEB	CHC-C4C-C3C	-4.31	122.98	130.34
29	N2	202	PEB	C1C-CHB-C4B	4.31	133.96	128.81
30	xL	305	PUB	OA-C1A-NA	-4.31	119.54	125.93
29	T7	202	PEB	CHB-C4B-NB	-4.31	122.85	128.83
29	T9	202	PEB	CHB-C4B-NB	-4.31	122.85	128.83
30	wL	305	PUB	OA-C1A-NA	-4.31	119.55	125.93
29	MG	404	PEB	CHC-C1D-ND	-4.31	108.94	113.95
30	MN	402	PUB	CHC-C1D-ND	-4.31	108.27	113.72
29	g7	203	PEB	C4B-C3B-C2B	-4.31	102.01	106.78
29	g9	203	PEB	C4B-C3B-C2B	-4.31	102.01	106.78
29	CA	202	PEB	CAB-C3B-C4B	4.31	132.63	125.01
29	CN	202	PEB	CAB-C3B-C4B	4.31	132.63	125.01
29	MD	202	PEB	C4B-C3B-C2B	-4.31	102.02	106.78
29	c7	203	PEB	C4B-C3B-C2B	-4.30	102.02	106.78
29	c9	203	PEB	C4B-C3B-C2B	-4.30	102.02	106.78
29	V7	202	PEB	CHB-C4B-NB	-4.30	122.86	128.83
29	Y7	202	PEB	CHB-C4B-NB	-4.30	122.86	128.83
29	V9	202	PEB	CHB-C4B-NB	-4.30	122.86	128.83
29	Y9	202	PEB	CHB-C4B-NB	-4.30	122.86	128.83
30	xL	304	PUB	CHA-C1B-C2B	-4.30	123.00	130.34
29	HK	1002	PEB	CMD-C2D-C3D	4.30	136.13	130.06
29	ID	202	PEB	C4B-C3B-C2B	-4.30	102.02	106.78
29	TR	202	PEB	C1C-CHB-C4B	4.30	133.95	128.81
30	wJ	305	PUB	OA-C1A-NA	-4.30	119.56	125.93
30	wJ	304	PUB	CHA-C1B-C2B	-4.30	123.00	130.34
29	C4	202	PEB	C4B-C3B-C2B	-4.30	102.02	106.78
30	xJ	305	PUB	OA-C1A-NA	-4.30	119.56	125.93
29	tJ	201	PEB	CHB-C4B-NB	-4.30	122.86	128.83
29	tL	201	PEB	CHB-C4B-NB	-4.30	122.86	128.83
31	E1	1001	CYC	CMA-C3A-C4A	4.30	131.68	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	a7	203	PEB	C4B-C3B-C2B	-4.30	102.03	106.78
29	a9	203	PEB	C4B-C3B-C2B	-4.30	102.03	106.78
29	k7	202	PEB	CHB-C4B-NB	-4.30	122.87	128.83
29	k9	202	PEB	CHB-C4B-NB	-4.30	122.87	128.83
29	DO	202	PEB	CHC-C1D-ND	-4.30	108.96	113.95
29	i1	202	PEB	OA-C1A-C2A	-4.30	122.76	126.17
29	iK	202	PEB	OA-C1A-C2A	-4.30	122.76	126.17
31	D1	1003	CYC	CMA-C3A-C4A	4.30	131.68	125.06
30	wL	304	PUB	CHA-C1B-C2B	-4.30	123.01	130.34
31	J1	1001	CYC	OC-C1C-C2C	-4.29	122.76	126.17
31	DK	1001	CYC	OC-C1C-C2C	-4.29	122.76	126.17
31	JK	1001	CYC	OC-C1C-C2C	-4.29	122.76	126.17
29	FJ	201	PEB	CHB-C4B-NB	-4.29	122.87	128.83
29	FL	201	PEB	CHB-C4B-NB	-4.29	122.87	128.83
30	MG	403	PUB	CHB-C1C-NC	-4.29	122.87	128.83
29	vJ	201	PEB	CHB-C4B-NB	-4.29	122.87	128.83
29	vL	201	PEB	CHB-C4B-NB	-4.29	122.87	128.83
30	AF	302	PUB	CMA-C2A-C1A	4.29	131.49	121.39
30	AI	302	PUB	CMA-C2A-C1A	4.29	131.49	121.39
29	SF	201	PEB	C3D-C4D-ND	4.29	115.68	107.26
29	SI	201	PEB	C3D-C4D-ND	4.29	115.68	107.26
29	V2	202	PEB	C1C-CHB-C4B	4.29	133.94	128.81
31	D1	1003	CYC	CHB-C4A-NA	-4.29	115.96	124.93
29	m7	202	PEB	OA-C1A-C2A	-4.29	122.76	126.17
29	m9	202	PEB	OA-C1A-C2A	-4.29	122.76	126.17
29	Y1	201	PEB	C3B-C4B-NB	4.29	116.29	110.05
29	YK	201	PEB	C3B-C4B-NB	4.29	116.29	110.05
31	NP	1001	CYC	CAB-C3B-C4B	4.29	128.15	121.38
31	GK	1001	CYC	CMA-C3A-C4A	4.29	131.67	125.06
29	A7	304	PEB	C1C-CHB-C4B	-4.29	123.69	128.81
29	ZF	201	PEB	C3D-C4D-ND	4.29	115.67	107.26
29	ZI	201	PEB	C3D-C4D-ND	4.29	115.67	107.26
29	fJ	201	PEB	CHB-C4B-NB	-4.29	122.88	128.83
29	fL	201	PEB	CHB-C4B-NB	-4.29	122.88	128.83
29	R7	203	PEB	C4B-C3B-C2B	-4.29	102.04	106.78
29	R9	203	PEB	C4B-C3B-C2B	-4.29	102.04	106.78
29	iB	201	PEB	C3D-C4D-ND	4.29	115.67	107.26
29	iM	201	PEB	C3D-C4D-ND	4.29	115.67	107.26
29	e7	203	PEB	C4B-C3B-C2B	-4.28	102.04	106.78
29	e9	203	PEB	C4B-C3B-C2B	-4.28	102.04	106.78
29	AJ	203	PEB	OD-C4D-ND	-4.28	119.58	125.93
29	AL	203	PEB	OD-C4D-ND	-4.28	119.58	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	a7	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	a9	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	RJ	202	PEB	OD-C4D-ND	-4.28	119.58	125.93
29	RL	202	PEB	OD-C4D-ND	-4.28	119.58	125.93
29	mB	201	PEB	C3D-C4D-ND	4.28	115.66	107.26
29	mM	201	PEB	C3D-C4D-ND	4.28	115.66	107.26
30	xJ	304	PUB	CHA-C1B-C2B	-4.28	123.03	130.34
29	a1	202	PEB	OA-C1A-C2A	-4.28	122.77	126.17
29	aK	202	PEB	OA-C1A-C2A	-4.28	122.77	126.17
29	UF	202	PEB	C3D-C4D-ND	4.28	115.66	107.26
29	UI	202	PEB	C3D-C4D-ND	4.28	115.66	107.26
31	M1	1001	CYC	CMA-C3A-C4A	4.28	131.66	125.06
31	MK	1001	CYC	CMA-C3A-C4A	4.28	131.66	125.06
31	GK	1001	CYC	CHB-C4A-NA	-4.28	115.98	124.93
29	g7	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	g9	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	L8	202	PEB	OA-C1A-C2A	-4.28	122.77	126.17
29	R7	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	R9	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	NJ	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	NL	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	H5	202	PEB	OA-C1A-C2A	-4.28	122.77	126.17
31	D1	1001	CYC	OC-C1C-C2C	-4.28	122.77	126.17
31	I1	1001	CYC	CHB-C4A-NA	-4.28	115.98	124.93
31	M1	1001	CYC	CHB-C4A-NA	-4.28	115.98	124.93
31	MK	1001	CYC	CHB-C4A-NA	-4.28	115.98	124.93
29	e7	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	e9	202	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	bJ	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	bL	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	JJ	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	JL	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
31	lP	1001	CYC	CAB-C3B-C4B	4.28	128.14	121.38
29	ED	201	PEB	C4B-C3B-C2B	-4.28	102.05	106.78
29	I4	202	PEB	C4B-C3B-C2B	-4.28	102.05	106.78
29	jJ	202	PEB	OD-C4D-ND	-4.28	119.59	125.93
29	jL	202	PEB	OD-C4D-ND	-4.28	119.59	125.93
29	BJ	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	BL	201	PEB	CHB-C4B-NB	-4.28	122.89	128.83
29	NJ	202	PEB	OD-C4D-ND	-4.28	119.59	125.93
29	NL	202	PEB	OD-C4D-ND	-4.28	119.59	125.93
30	MN	402	PUB	C1D-CHC-C4C	-4.28	104.06	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k7	203	PEB	C4B-C3B-C2B	-4.28	102.05	106.78
29	k9	203	PEB	C4B-C3B-C2B	-4.28	102.05	106.78
29	ZB	201	PEB	C3D-C4D-ND	4.28	115.65	107.26
29	ZM	201	PEB	C3D-C4D-ND	4.28	115.65	107.26
29	jF	201	PEB	C3D-C4D-ND	4.27	115.65	107.26
29	jI	201	PEB	C3D-C4D-ND	4.27	115.65	107.26
31	C1	1001	CYC	CMA-C3A-C4A	4.27	131.65	125.06
31	AP	1001	CYC	CAB-C3B-C4B	4.27	128.13	121.38
29	CD	202	PEB	C4B-C3B-C2B	-4.27	102.05	106.78
29	c7	202	PEB	CHB-C4B-NB	-4.27	122.90	128.83
29	c9	202	PEB	CHB-C4B-NB	-4.27	122.90	128.83
31	JP	1001	CYC	CAB-C3B-C4B	4.27	128.13	121.38
29	HB	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
29	HM	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
31	CK	1001	CYC	CHB-C4A-NA	-4.27	116.00	124.93
31	EK	1001	CYC	CHB-C4A-NA	-4.27	116.00	124.93
31	D1	1003	CYC	OB-C4B-C3B	-4.27	123.40	128.04
31	PP	1001	CYC	CAB-C3B-C4B	4.27	128.13	121.38
29	QF	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
29	QI	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
29	AM	303	PEB	CHC-C1D-ND	-4.27	108.99	113.95
31	iP	1001	CYC	CAB-C3B-C4B	4.27	128.12	121.38
29	dJ	201	PEB	CHB-C4B-NB	-4.27	122.90	128.83
29	dL	201	PEB	CHB-C4B-NB	-4.27	122.90	128.83
29	F1	1002	PEB	CMD-C2D-C3D	4.27	136.09	130.06
29	L1	1002	PEB	CMD-C2D-C3D	4.27	136.09	130.06
29	FK	1002	PEB	CMD-C2D-C3D	4.27	136.09	130.06
29	LK	1002	PEB	CMD-C2D-C3D	4.27	136.09	130.06
29	hF	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
29	hI	201	PEB	C3D-C4D-ND	4.27	115.64	107.26
31	I1	1001	CYC	CMA-C3A-C4A	4.27	131.64	125.06
30	MA	402	PUB	C1D-CHC-C4C	-4.27	104.08	113.37
29	MQ	406	PEB	CHC-C1D-ND	-4.27	108.99	113.95
31	KP	1001	CYC	CAB-C3B-C4B	4.27	128.12	121.38
29	rJ	201	PEB	CHB-C4B-NB	-4.27	122.91	128.83
29	rL	201	PEB	CHB-C4B-NB	-4.27	122.91	128.83
30	AM	304	PUB	OD-C4D-ND	-4.27	119.61	125.93
29	i7	202	PEB	CHB-C4B-NB	-4.27	122.91	128.83
29	i9	202	PEB	CHB-C4B-NB	-4.27	122.91	128.83
29	XB	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	XM	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	H1	1002	PEB	CMD-C2D-C3D	4.27	136.08	130.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	dF	202	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	dI	202	PEB	C3D-C4D-ND	4.27	115.63	107.26
31	IK	1001	CYC	CHB-C4A-NA	-4.27	116.01	124.93
29	OF	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	OI	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
31	CK	1001	CYC	CMA-C3A-C4A	4.27	131.63	125.06
29	c1	202	PEB	OA-C1A-C2A	-4.27	122.78	126.17
29	cK	202	PEB	OA-C1A-C2A	-4.27	122.78	126.17
29	gB	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	gM	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
31	C1	1001	CYC	CHB-C4A-NA	-4.27	116.01	124.93
31	K1	1001	CYC	CHB-C4A-NA	-4.27	116.01	124.93
31	KK	1001	CYC	CHB-C4A-NA	-4.27	116.01	124.93
30	yJ	302	PUB	C1C-C2C-C3C	-4.27	102.06	106.78
30	yL	302	PUB	C1C-C2C-C3C	-4.27	102.06	106.78
31	tP	1001	CYC	CAB-C3B-C4B	4.27	128.12	121.38
29	hJ	201	PEB	CHB-C4B-NB	-4.27	122.91	128.83
29	hL	201	PEB	CHB-C4B-NB	-4.27	122.91	128.83
29	WF	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	WI	201	PEB	C3D-C4D-ND	4.27	115.63	107.26
29	F8	202	PEB	OA-C1A-C2A	-4.26	122.78	126.17
29	nJ	202	PEB	OD-C4D-ND	-4.26	119.61	125.93
29	nL	202	PEB	OD-C4D-ND	-4.26	119.61	125.93
31	E1	1001	CYC	CHB-C4A-NA	-4.26	116.01	124.93
29	U1	201	PEB	OA-C1A-C2A	-4.26	122.78	126.17
29	UK	201	PEB	OA-C1A-C2A	-4.26	122.78	126.17
29	fF	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	fI	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	RJ	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	nJ	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	RL	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	nL	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	P7	203	PEB	C4B-C3B-C2B	-4.26	102.06	106.78
29	P9	203	PEB	C4B-C3B-C2B	-4.26	102.06	106.78
29	ZJ	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	ZL	201	PEB	CHB-C4B-NB	-4.26	122.91	128.83
29	TJ	202	PEB	OD-C4D-ND	-4.26	119.61	125.93
29	TL	202	PEB	OD-C4D-ND	-4.26	119.61	125.93
31	gP	1001	CYC	CAB-C3B-C4B	4.26	128.11	121.38
29	pJ	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	pL	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
31	RP	1001	CYC	CAB-C3B-C4B	4.26	128.11	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	cP	1001	CYC	CAB-C3B-C4B	4.26	128.11	121.38
29	V1	201	PEB	C3B-C4B-NB	4.26	116.25	110.05
29	e1	201	PEB	C3B-C4B-NB	4.26	116.25	110.05
29	VK	201	PEB	C3B-C4B-NB	4.26	116.25	110.05
29	eK	201	PEB	C3B-C4B-NB	4.26	116.25	110.05
29	HJ	201	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	HL	201	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	XJ	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	XL	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	PJ	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	PL	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	FB	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	FM	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	RB	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	VB	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	RM	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	VM	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	uJ	201	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	uL	201	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	Z1	201	PEB	OA-C1A-C2A	-4.26	122.79	126.17
29	I4	203	PEB	OA-C1A-C2A	-4.26	122.79	126.17
29	ZK	201	PEB	OA-C1A-C2A	-4.26	122.79	126.17
29	NB	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	cB	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	NM	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
29	cM	201	PEB	C3D-C4D-ND	4.26	115.62	107.26
31	K1	1001	CYC	CMA-C3A-C4A	4.26	131.62	125.06
31	KK	1001	CYC	CMA-C3A-C4A	4.26	131.62	125.06
29	dJ	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	dL	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	jJ	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	jL	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
30	MQ	405	PUB	CHB-C1C-NC	-4.26	122.92	128.83
29	bF	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
29	bI	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
31	rP	1001	CYC	CAB-C3B-C4B	4.26	128.10	121.38
29	T2	202	PEB	C1C-CHB-C4B	4.26	133.90	128.81
29	JB	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
29	JM	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
29	VJ	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	VL	201	PEB	CHB-C4B-NB	-4.26	122.92	128.83
29	g1	201	PEB	C3B-C4B-NB	4.26	116.24	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gK	201	PEB	C3B-C4B-NB	4.26	116.24	110.05
29	DB	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
29	DM	201	PEB	C3D-C4D-ND	4.26	115.61	107.26
29	DK	1002	PEB	OA-C1A-C2A	-4.26	122.79	126.17
29	rJ	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	rL	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	k1	201	PEB	C3B-C4B-NB	4.26	116.24	110.05
29	kK	201	PEB	C3B-C4B-NB	4.26	116.24	110.05
29	hJ	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	hL	202	PEB	OD-C4D-ND	-4.26	119.62	125.93
29	m7	202	PEB	CHB-C4B-NB	-4.25	122.92	128.83
29	m9	202	PEB	CHB-C4B-NB	-4.25	122.92	128.83
31	I1	1001	CYC	OB-C4B-C3B	-4.25	123.42	128.04
31	K1	1001	CYC	OB-C4B-C3B	-4.25	123.42	128.04
31	KK	1001	CYC	OB-C4B-C3B	-4.25	123.42	128.04
29	FJ	202	PEB	OD-C4D-ND	-4.25	119.63	125.93
29	FL	202	PEB	OD-C4D-ND	-4.25	119.63	125.93
30	AB	304	PUB	OD-C4D-ND	-4.25	119.63	125.93
31	vP	1001	CYC	CAB-C3B-C4B	4.25	128.10	121.38
29	BJ	202	PEB	OD-C4D-ND	-4.25	119.63	125.93
29	BL	202	PEB	OD-C4D-ND	-4.25	119.63	125.93
29	TJ	201	PEB	CHB-C4B-NB	-4.25	122.93	128.83
29	TL	201	PEB	CHB-C4B-NB	-4.25	122.93	128.83
31	E1	1001	CYC	OB-C4B-C3B	-4.25	123.43	128.04
31	mP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
29	AB	303	PEB	CHC-C1D-ND	-4.25	109.01	113.95
31	eP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
29	E4	202	PEB	C4B-C3B-C2B	-4.25	102.08	106.78
31	GP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
29	kB	201	PEB	C3D-C4D-ND	4.25	115.60	107.26
29	kM	201	PEB	C3D-C4D-ND	4.25	115.60	107.26
29	IJ	203	PEB	OD-C4D-ND	-4.25	119.63	125.93
29	IL	203	PEB	OD-C4D-ND	-4.25	119.63	125.93
29	eB	201	PEB	C3D-C4D-ND	4.25	115.60	107.26
29	eM	201	PEB	C3D-C4D-ND	4.25	115.60	107.26
31	EP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
31	C1	1001	CYC	OB-C4B-C3B	-4.25	123.43	128.04
31	GK	1001	CYC	OB-C4B-C3B	-4.25	123.43	128.04
29	D1	1002	PEB	CMD-C2D-C3D	4.25	136.06	130.06
29	KD	203	PEB	C3D-C4D-ND	4.25	115.59	107.26
29	TB	201	PEB	C3D-C4D-ND	4.25	115.59	107.26
29	TM	201	PEB	C3D-C4D-ND	4.25	115.59	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	IK	1001	CYC	CMA-C3A-C4A	4.25	131.61	125.06
29	LJ	201	PEB	CHB-C4B-NB	-4.25	122.94	128.83
29	LL	201	PEB	CHB-C4B-NB	-4.25	122.94	128.83
29	N1	1002	PEB	CMD-C2D-C3D	4.25	136.05	130.06
29	V7	202	PEB	OA-C1A-C2A	-4.25	122.80	126.17
29	V9	202	PEB	OA-C1A-C2A	-4.25	122.80	126.17
29	CG	201	PEB	OA-C1A-C2A	-4.25	122.80	126.17
29	CQ	201	PEB	OA-C1A-C2A	-4.25	122.80	126.17
29	P1	201	PEB	C3B-C4B-NB	4.25	116.23	110.05
29	a1	201	PEB	C3B-C4B-NB	4.25	116.23	110.05
29	PK	201	PEB	C3B-C4B-NB	4.25	116.23	110.05
29	aK	201	PEB	C3B-C4B-NB	4.25	116.23	110.05
29	DK	1002	PEB	CMD-C2D-C3D	4.25	136.05	130.06
31	pP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
29	JJ	202	PEB	OD-C4D-ND	-4.25	119.64	125.93
29	JL	202	PEB	OD-C4D-ND	-4.25	119.64	125.93
31	M1	1001	CYC	OB-C4B-C3B	-4.25	123.43	128.04
31	MK	1001	CYC	OB-C4B-C3B	-4.25	123.43	128.04
29	DJ	201	PEB	CHB-C4B-NB	-4.25	122.94	128.83
29	DL	201	PEB	CHB-C4B-NB	-4.25	122.94	128.83
31	TP	1001	CYC	CAB-C3B-C4B	4.25	128.09	121.38
29	NK	1002	PEB	CMD-C2D-C3D	4.25	136.05	130.06
29	PB	201	PEB	C3D-C4D-ND	4.25	115.59	107.26
29	PM	201	PEB	C3D-C4D-ND	4.25	115.59	107.26
29	T1	201	PEB	C3B-C4B-NB	4.24	116.22	110.05
29	TK	201	PEB	C3B-C4B-NB	4.24	116.22	110.05
29	a7	202	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	a9	202	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	lF	201	PEB	C3D-C4D-ND	4.24	115.59	107.26
29	lI	201	PEB	C3D-C4D-ND	4.24	115.59	107.26
29	PJ	201	PEB	CHB-C4B-NB	-4.24	122.94	128.83
29	PL	201	PEB	CHB-C4B-NB	-4.24	122.94	128.83
29	T2	203	PEB	C2A-C1A-NA	4.24	111.93	108.27
29	pJ	202	PEB	OD-C4D-ND	-4.24	119.64	125.93
29	pL	202	PEB	OD-C4D-ND	-4.24	119.64	125.93
29	GD	203	PEB	C3D-C4D-ND	4.24	115.58	107.26
29	sJ	203	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	sL	203	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	WJ	201	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	WL	201	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	LB	201	PEB	C3D-C4D-ND	4.24	115.58	107.26
29	LM	201	PEB	C3D-C4D-ND	4.24	115.58	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	P1	202	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	PK	202	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	F1	1002	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	FK	1002	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	R1	201	PEB	C3B-C4B-NB	4.24	116.21	110.05
29	RK	201	PEB	C3B-C4B-NB	4.24	116.21	110.05
29	K4	203	PEB	C3D-C4D-ND	4.24	115.57	107.26
29	J1	1002	PEB	CMD-C2D-C3D	4.24	136.04	130.06
29	JK	1002	PEB	CMD-C2D-C3D	4.24	136.04	130.06
29	F5	202	PEB	OA-C1A-C2A	-4.24	122.80	126.17
29	AA	201	PEB	CHC-C1D-ND	-4.24	109.03	113.95
29	AN	201	PEB	CHC-C1D-ND	-4.24	109.03	113.95
29	c1	201	PEB	C3B-C4B-NB	4.24	116.21	110.05
29	cK	201	PEB	C3B-C4B-NB	4.24	116.21	110.05
29	XJ	202	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	XL	202	PEB	OD-C4D-ND	-4.24	119.65	125.93
29	D3	202	PEB	CHC-C1D-ND	-4.24	109.03	113.95
29	GA	201	PEB	CHC-C1D-ND	-4.24	109.03	113.95
29	GN	201	PEB	CHC-C1D-ND	-4.24	109.03	113.95
31	HK	1001	CYC	OC-C1C-C2C	-4.23	122.81	126.17
31	IK	1001	CYC	OB-C4B-C3B	-4.23	123.45	128.04
29	Y7	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	B8	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	Y9	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
31	EK	1001	CYC	CMA-C3A-C4A	4.23	131.58	125.06
29	G4	203	PEB	C3D-C4D-ND	4.23	115.56	107.26
29	CA	201	PEB	CHC-C1D-ND	-4.23	109.03	113.95
29	CN	201	PEB	CHC-C1D-ND	-4.23	109.03	113.95
29	IJ	201	PEB	CHB-C4B-NB	-4.23	122.96	128.83
29	IL	201	PEB	CHB-C4B-NB	-4.23	122.96	128.83
29	B5	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	m1	201	PEB	C3B-C4B-NB	4.23	116.20	110.05
29	mK	201	PEB	C3B-C4B-NB	4.23	116.20	110.05
29	J9	1002	PEB	C3B-C4B-NB	4.23	116.20	110.05
29	EA	201	PEB	CHC-C1D-ND	-4.23	109.03	113.95
29	EN	201	PEB	CHC-C1D-ND	-4.23	109.03	113.95
29	R7	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	R9	202	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	BC	203	PEB	OA-C1A-C2A	-4.23	122.81	126.17
29	BE	203	PEB	OA-C1A-C2A	-4.23	122.81	126.17
31	CP	1001	CYC	CAB-C3B-C4B	4.23	128.06	121.38
29	A9	304	PEB	C1C-CHB-C4B	-4.23	123.76	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O7	201	PEB	C3D-C4D-ND	4.23	115.56	107.26
29	O9	201	PEB	C3D-C4D-ND	4.23	115.56	107.26
29	RR	203	PEB	C2A-C1A-NA	4.23	111.92	108.27
29	LJ	202	PEB	CMB-C2B-C1B	4.23	131.57	125.06
29	LL	202	PEB	CMB-C2B-C1B	4.23	131.57	125.06
29	ZJ	202	PEB	OD-C4D-ND	-4.23	119.67	125.93
29	bJ	202	PEB	OD-C4D-ND	-4.23	119.67	125.93
29	ZL	202	PEB	OD-C4D-ND	-4.23	119.67	125.93
29	bL	202	PEB	OD-C4D-ND	-4.23	119.67	125.93
29	NR	203	PEB	C2A-C1A-NA	4.23	111.92	108.27
29	xL	301	PEB	C3D-C4D-ND	4.23	115.55	107.26
29	J7	1002	PEB	C3B-C4B-NB	4.23	116.20	110.05
31	H1	1001	CYC	OC-C1C-C2C	-4.22	122.81	126.17
31	EK	1001	CYC	OB-C4B-C3B	-4.22	123.46	128.04
29	ZJ	203	PEB	CMB-C2B-C1B	4.22	131.57	125.06
29	ZL	203	PEB	CMB-C2B-C1B	4.22	131.57	125.06
29	A7	301	PEB	CHC-C1D-ND	-4.22	109.05	113.95
29	A9	301	PEB	CHC-C1D-ND	-4.22	109.05	113.95
29	MD	203	PEB	C3D-C4D-ND	4.22	115.54	107.26
29	i7	202	PEB	OA-C1A-C2A	-4.22	122.82	126.17
29	i9	202	PEB	OA-C1A-C2A	-4.22	122.82	126.17
29	b7	201	PEB	C3D-C4D-ND	4.22	115.54	107.26
29	b9	201	PEB	C3D-C4D-ND	4.22	115.54	107.26
29	N2	203	PEB	C2A-C1A-NA	4.22	111.91	108.27
29	MG	405	PEB	C3D-C4D-ND	4.22	115.54	107.26
29	IJ	202	PEB	OD-C4D-ND	-4.22	119.68	125.93
29	IL	202	PEB	OD-C4D-ND	-4.22	119.68	125.93
29	h7	201	PEB	C3D-C4D-ND	4.22	115.53	107.26
29	h9	201	PEB	C3D-C4D-ND	4.22	115.53	107.26
29	fJ	202	PEB	OD-C4D-ND	-4.22	119.68	125.93
29	fL	202	PEB	OD-C4D-ND	-4.22	119.68	125.93
29	D1	1002	PEB	OA-C1A-C2A	-4.22	122.82	126.17
29	U7	201	PEB	C3D-C4D-ND	4.22	115.53	107.26
29	U9	201	PEB	C3D-C4D-ND	4.22	115.53	107.26
29	MQ	407	PEB	C3D-C4D-ND	4.22	115.53	107.26
29	ID	203	PEB	C3D-C4D-ND	4.21	115.53	107.26
29	L1	1002	PEB	OA-C1A-C2A	-4.21	122.82	126.17
29	LK	1002	PEB	OA-C1A-C2A	-4.21	122.82	126.17
29	R2	203	PEB	C2A-C1A-NA	4.21	111.91	108.27
29	i1	201	PEB	C3B-C4B-NB	4.21	116.18	110.05
29	iK	201	PEB	C3B-C4B-NB	4.21	116.18	110.05
29	g7	202	PEB	OA-C1A-C2A	-4.21	122.82	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	g9	202	PEB	OA-C1A-C2A	-4.21	122.82	126.17
31	F1	1001	CYC	OC-C1C-C2C	-4.21	122.83	126.17
31	FK	1001	CYC	OC-C1C-C2C	-4.21	122.83	126.17
29	KA	201	PEB	CHC-C1D-ND	-4.21	109.06	113.95
29	KN	201	PEB	CHC-C1D-ND	-4.21	109.06	113.95
29	f7	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	j7	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	f9	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	j9	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	ED	202	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	VJ	202	PEB	CMB-C2B-C1B	4.21	131.54	125.06
29	VL	202	PEB	CMB-C2B-C1B	4.21	131.54	125.06
29	Z7	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	d7	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	Z9	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	d9	201	PEB	C3D-C4D-ND	4.21	115.52	107.26
29	F7	1002	PEB	C3B-C4B-NB	4.21	116.17	110.05
29	W7	201	PEB	C3D-C4D-ND	4.21	115.51	107.26
29	W9	201	PEB	C3D-C4D-ND	4.21	115.51	107.26
29	P2	202	PEB	C2A-C1A-NA	4.21	111.90	108.27
29	hJ	203	PEB	CMB-C2B-C1B	4.21	131.54	125.06
29	hL	203	PEB	CMB-C2B-C1B	4.21	131.54	125.06
29	L9	1002	PEB	C3B-C4B-NB	4.21	116.17	110.05
29	AG	201	PEB	OA-C1A-C2A	-4.21	122.83	126.17
29	AQ	201	PEB	OA-C1A-C2A	-4.21	122.83	126.17
31	N1	1001	CYC	OC-C1C-C2C	-4.21	122.83	126.17
29	L7	1002	PEB	C3B-C4B-NB	4.21	116.17	110.05
29	J1	1002	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	KG	201	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	JK	1002	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	KQ	201	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	dJ	203	PEB	CMB-C2B-C1B	4.20	131.54	125.06
29	dL	203	PEB	CMB-C2B-C1B	4.20	131.54	125.06
29	HC	203	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	HE	203	PEB	OA-C1A-C2A	-4.20	122.83	126.17
31	M9	1001	CYC	OC-C1C-C2C	-4.20	122.83	126.17
31	NK	1001	CYC	OC-C1C-C2C	-4.20	122.83	126.17
29	S7	201	PEB	C3D-C4D-ND	4.20	115.50	107.26
29	S9	201	PEB	C3D-C4D-ND	4.20	115.50	107.26
29	VR	203	PEB	C2A-C1A-NA	4.20	111.89	108.27
29	PJ	203	PEB	CMB-C2B-C1B	4.20	131.53	125.06
29	PL	203	PEB	CMB-C2B-C1B	4.20	131.53	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IA	201	PEB	CHC-C1D-ND	-4.20	109.07	113.95
29	IN	201	PEB	CHC-C1D-ND	-4.20	109.07	113.95
29	k7	202	PEB	OA-C1A-C2A	-4.20	122.83	126.17
29	k9	202	PEB	OA-C1A-C2A	-4.20	122.83	126.17
31	L1	1001	CYC	OC-C1C-C2C	-4.20	122.83	126.17
31	LK	1001	CYC	OC-C1C-C2C	-4.20	122.83	126.17
29	MN	404	PEB	C3D-C4D-ND	4.20	115.50	107.26
29	O7	202	PEB	C3D-C4D-ND	4.20	115.49	107.26
29	O9	202	PEB	C3D-C4D-ND	4.20	115.49	107.26
29	Q7	201	PEB	C3D-C4D-ND	4.20	115.49	107.26
29	Q9	201	PEB	C3D-C4D-ND	4.20	115.49	107.26
29	BJ	203	PEB	CMB-C2B-C1B	4.19	131.52	125.06
29	BL	203	PEB	CMB-C2B-C1B	4.19	131.52	125.06
29	E4	203	PEB	C3D-C4D-ND	4.19	115.49	107.26
29	l7	201	PEB	C3D-C4D-ND	4.19	115.49	107.26
29	l9	201	PEB	C3D-C4D-ND	4.19	115.49	107.26
29	R1	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	c7	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	e7	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	c9	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	e9	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	RK	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	xJ	301	PEB	C3D-C4D-ND	4.19	115.49	107.26
29	S7	202	PEB	C3D-C4D-ND	4.19	115.48	107.26
29	S9	202	PEB	C3D-C4D-ND	4.19	115.48	107.26
29	S2	201	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	G8	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	EG	201	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	EQ	201	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	MA	404	PEB	C3D-C4D-ND	4.19	115.48	107.26
29	H7	1002	PEB	C3B-C4B-NB	4.19	116.15	110.05
29	H9	1002	PEB	C3B-C4B-NB	4.19	116.15	110.05
29	tJ	202	PEB	CMB-C2B-C1B	4.19	131.52	125.06
29	tL	202	PEB	CMB-C2B-C1B	4.19	131.52	125.06
29	C4	203	PEB	C3D-C4D-ND	4.19	115.48	107.26
29	IG	201	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	IQ	201	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	V2	203	PEB	C2A-C1A-NA	4.19	111.89	108.27
29	XR	203	PEB	C2A-C1A-NA	4.19	111.89	108.27
29	wJ	301	PEB	C3D-C4D-ND	4.19	115.48	107.26
30	yJ	303	PUB	CMA-C2A-C1A	4.19	131.24	121.39
29	TJ	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	TL	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	l7	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	l9	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	DC	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	DE	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
31	M7	1001	CYC	OC-C1C-C2C	-4.19	122.84	126.17
29	CD	203	PEB	C3D-C4D-ND	4.19	115.48	107.26
29	NJ	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	NL	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	Z7	202	PEB	C3D-C4D-ND	4.19	115.47	107.26
29	Z9	202	PEB	C3D-C4D-ND	4.19	115.47	107.26
29	D7	1002	PEB	C3B-C4B-NB	4.19	116.14	110.05
29	N7	1002	PEB	C3B-C4B-NB	4.19	116.14	110.05
29	D9	1002	PEB	C3B-C4B-NB	4.19	116.14	110.05
29	F9	1002	PEB	C3B-C4B-NB	4.19	116.14	110.05
29	N9	1002	PEB	C3B-C4B-NB	4.19	116.14	110.05
29	pJ	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	vJ	202	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	pL	203	PEB	CMB-C2B-C1B	4.19	131.51	125.06
29	vL	202	PEB	CMB-C2B-C1B	4.19	131.51	125.06
31	KI	1001	CYC	C4D-CHA-C1A	4.19	133.81	128.81
30	yJ	302	PUB	CHC-C1D-ND	-4.19	108.43	113.72
30	yL	302	PUB	CHC-C1D-ND	-4.19	108.43	113.72
29	G5	202	PEB	OA-C1A-C2A	-4.19	122.84	126.17
29	X2	202	PEB	CAB-CBB-CGB	-4.19	104.60	113.60
29	Q7	202	PEB	C3D-C4D-ND	4.18	115.47	107.26
29	Q9	202	PEB	C3D-C4D-ND	4.18	115.47	107.26
30	yL	303	PUB	CMA-C2A-C1A	4.18	131.23	121.39
29	d7	202	PEB	OA-C1A-C2A	-4.18	122.85	126.17
29	d9	202	PEB	OA-C1A-C2A	-4.18	122.85	126.17
29	VR	203	PEB	CAB-CBB-CGB	-4.18	104.61	113.60
29	jJ	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	jL	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	D4	202	PEB	C1B-C2B-C3B	-4.18	101.71	106.51
30	wL	305	PUB	C1D-CHC-C4C	-4.18	104.27	113.37
29	U2	202	PEB	C2A-C1A-NA	4.18	111.88	108.27
29	rJ	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	rL	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	L5	202	PEB	OA-C1A-C2A	-4.18	122.85	126.17
29	T7	202	PEB	OA-C1A-C2A	-4.18	122.85	126.17
29	T9	202	PEB	OA-C1A-C2A	-4.18	122.85	126.17
29	wL	301	PEB	C3D-C4D-ND	4.18	115.46	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	h7	202	PEB	C3D-C4D-ND	4.18	115.46	107.26
29	h9	202	PEB	C3D-C4D-ND	4.18	115.46	107.26
29	fJ	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	nJ	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	fL	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	nL	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	JF	1002	PEB	CHB-C4B-NB	-4.18	123.03	128.83
29	JI	1002	PEB	CHB-C4B-NB	-4.18	123.03	128.83
29	JJ	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	JL	203	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	j7	202	PEB	C3D-C4D-ND	4.18	115.45	107.26
29	j9	202	PEB	C3D-C4D-ND	4.18	115.45	107.26
31	CK	1001	CYC	OB-C4B-C3B	-4.18	123.51	128.04
29	DJ	202	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	DL	202	PEB	CMB-C2B-C1B	4.18	131.50	125.06
29	HJ	202	PEB	CMB-C2B-C1B	4.18	131.49	125.06
29	bJ	203	PEB	CMB-C2B-C1B	4.18	131.49	125.06
29	HL	202	PEB	CMB-C2B-C1B	4.18	131.49	125.06
29	bL	203	PEB	CMB-C2B-C1B	4.18	131.49	125.06
29	P7	202	PEB	OA-C1A-C2A	-4.17	122.85	126.17
29	P9	202	PEB	OA-C1A-C2A	-4.17	122.85	126.17
29	lJ	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
29	lL	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
29	XJ	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
29	XL	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
30	xJ	305	PUB	C1D-CHC-C4C	-4.17	104.29	113.37
29	V2	203	PEB	CAB-CBB-CGB	-4.17	104.62	113.60
29	R2	203	PEB	CAB-CBB-CGB	-4.17	104.62	113.60
29	NK	1002	PEB	OA-C1A-C2A	-4.17	122.86	126.17
29	FJ	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
29	FL	203	PEB	CMB-C2B-C1B	4.17	131.49	125.06
29	PF	202	PEB	OD-C4D-ND	-4.17	119.75	125.93
29	gF	202	PEB	OD-C4D-ND	-4.17	119.75	125.93
29	PI	202	PEB	OD-C4D-ND	-4.17	119.75	125.93
29	gI	202	PEB	OD-C4D-ND	-4.17	119.75	125.93
29	k7	201	PEB	CHC-C1D-ND	-4.17	109.10	113.95
29	k9	201	PEB	CHC-C1D-ND	-4.17	109.10	113.95
29	PR	202	PEB	C2A-C1A-NA	4.17	111.87	108.27
29	l7	202	PEB	C3D-C4D-ND	4.17	115.44	107.26
29	l9	202	PEB	C3D-C4D-ND	4.17	115.44	107.26
29	d7	202	PEB	C3D-C4D-ND	4.17	115.44	107.26
29	d9	202	PEB	C3D-C4D-ND	4.17	115.44	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	XR	203	PEB	CAB-CBB-CGB	-4.17	104.63	113.60
29	DD	202	PEB	C1B-C2B-C3B	-4.17	101.72	106.51
29	xL	302	PEB	CHA-C1B-NB	-4.17	116.21	124.93
29	f7	202	PEB	C3D-C4D-ND	4.17	115.44	107.26
29	f9	202	PEB	C3D-C4D-ND	4.17	115.44	107.26
30	wJ	305	PUB	C1D-CHC-C4C	-4.17	104.30	113.37
29	GG	201	PEB	OA-C1A-C2A	-4.17	122.86	126.17
29	GQ	201	PEB	OA-C1A-C2A	-4.17	122.86	126.17
29	W7	202	PEB	C3D-C4D-ND	4.17	115.43	107.26
29	W9	202	PEB	C3D-C4D-ND	4.17	115.43	107.26
31	J9	1001	CYC	C1B-NB-C4B	-4.17	105.36	110.67
29	RJ	203	PEB	CMB-C2B-C1B	4.17	131.48	125.06
29	RL	203	PEB	CMB-C2B-C1B	4.17	131.48	125.06
29	UR	202	PEB	C2A-C1A-NA	4.16	111.86	108.27
31	K7	1001	CYC	OC-C1C-C2C	-4.16	122.86	126.17
29	L5	202	PEB	CHB-C4B-NB	-4.16	123.05	128.83
31	F9	1001	CYC	C1B-NB-C4B	-4.16	105.37	110.67
29	PR	202	PEB	CAB-CBB-CGB	-4.16	104.65	113.60
29	TR	203	PEB	C2A-C1A-NA	4.16	111.86	108.27
29	Y7	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	c7	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	Y9	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	c9	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	b7	202	PEB	C3D-C4D-ND	4.16	115.42	107.26
29	b9	202	PEB	C3D-C4D-ND	4.16	115.42	107.26
29	UF	201	PEB	OD-C4D-ND	-4.16	119.77	125.93
29	UI	201	PEB	OD-C4D-ND	-4.16	119.77	125.93
29	U7	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	f7	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	U9	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	f9	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	R7	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	R9	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	g7	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	g9	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	h7	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	h9	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
31	GF	1001	CYC	CHB-C4A-NA	-4.16	116.24	124.93
31	GI	1001	CYC	CHB-C4A-NA	-4.16	116.24	124.93
29	mF	202	PEB	OD-C4D-ND	-4.16	119.77	125.93
29	mI	202	PEB	OD-C4D-ND	-4.16	119.77	125.93
31	CF	1001	CYC	C4D-CHA-C1A	4.16	133.77	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	CI	1001	CYC	C4D-CHA-C1A	4.16	133.77	128.81
30	xL	305	PUB	C1D-CHC-C4C	-4.16	104.33	113.37
29	O7	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	S7	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	O9	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	S9	202	PEB	OA-C1A-C2A	-4.16	122.87	126.17
29	L8	202	PEB	CHB-C4B-NB	-4.16	123.06	128.83
29	V7	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	V9	201	PEB	CHC-C1D-ND	-4.16	109.12	113.95
29	RR	203	PEB	CAB-CBB-CGB	-4.15	104.66	113.60
29	LF	1002	PEB	CHB-C4B-NB	-4.15	123.06	128.83
29	LI	1002	PEB	CHB-C4B-NB	-4.15	123.06	128.83
29	wJ	302	PEB	CHA-C1B-NB	-4.15	116.24	124.93
29	HD	202	PEB	C1B-C2B-C3B	-4.15	101.74	106.51
29	i7	201	PEB	CHC-C1D-ND	-4.15	109.12	113.95
29	i9	201	PEB	CHC-C1D-ND	-4.15	109.12	113.95
31	F7	1001	CYC	C1B-NB-C4B	-4.15	105.38	110.67
29	U7	202	PEB	C3D-C4D-ND	4.15	115.41	107.26
29	U9	202	PEB	C3D-C4D-ND	4.15	115.41	107.26
29	B8	202	PEB	CHB-C4B-NB	-4.15	123.07	128.83
29	W7	202	PEB	OA-C1A-C2A	-4.15	122.87	126.17
29	W9	202	PEB	OA-C1A-C2A	-4.15	122.87	126.17
31	D7	1001	CYC	C1B-NB-C4B	-4.15	105.38	110.67
31	D9	1001	CYC	C1B-NB-C4B	-4.15	105.38	110.67
29	OF	203	PEB	OD-C4D-ND	-4.15	119.78	125.93
29	OI	203	PEB	OD-C4D-ND	-4.15	119.78	125.93
29	i1	202	PEB	C3D-C4D-ND	4.15	115.40	107.26
29	iK	202	PEB	C3D-C4D-ND	4.15	115.40	107.26
31	N7	1001	CYC	C1B-NB-C4B	-4.15	105.39	110.67
31	N9	1001	CYC	C1B-NB-C4B	-4.15	105.39	110.67
29	B5	202	PEB	CHB-C4B-NB	-4.15	123.07	128.83
30	AB	305	PUB	CHB-C1C-NC	-4.15	123.07	128.83
29	N1	1002	PEB	OA-C1A-C2A	-4.15	122.88	126.17
29	N3	203	PEB	CMB-C2B-C1B	4.15	131.45	125.06
29	Q7	202	PEB	OA-C1A-C2A	-4.15	122.88	126.17
29	Q9	202	PEB	OA-C1A-C2A	-4.15	122.88	126.17
29	AC	203	PEB	CHA-C1B-NB	-4.14	116.26	124.93
29	AE	203	PEB	CHA-C1B-NB	-4.14	116.26	124.93
31	EF	1001	CYC	C4D-CHA-C1A	4.14	133.76	128.81
31	EI	1001	CYC	C4D-CHA-C1A	4.14	133.76	128.81
29	Z7	202	PEB	OA-C1A-C2A	-4.14	122.88	126.17
29	Z9	202	PEB	OA-C1A-C2A	-4.14	122.88	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FF	1002	PEB	CHB-C4B-NB	-4.14	123.08	128.83
29	FI	1002	PEB	CHB-C4B-NB	-4.14	123.08	128.83
29	T7	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	T9	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	xJ	302	PEB	CHA-C1B-NB	-4.14	116.27	124.93
29	dF	201	PEB	OD-C4D-ND	-4.14	119.80	125.93
29	eF	202	PEB	OD-C4D-ND	-4.14	119.80	125.93
29	dI	201	PEB	OD-C4D-ND	-4.14	119.80	125.93
29	eI	202	PEB	OD-C4D-ND	-4.14	119.80	125.93
31	C7	1001	CYC	OC-C1C-C2C	-4.14	122.88	126.17
31	C9	1001	CYC	OC-C1C-C2C	-4.14	122.88	126.17
30	MN	402	PUB	C1C-C2C-C3C	-4.14	102.20	106.78
29	a1	202	PEB	C3D-C4D-ND	4.14	115.38	107.26
29	aK	202	PEB	C3D-C4D-ND	4.14	115.38	107.26
31	KF	1001	CYC	C4D-CHA-C1A	4.14	133.75	128.81
31	G7	1001	CYC	OC-C1C-C2C	-4.14	122.88	126.17
29	P2	202	PEB	CAB-CBB-CGB	-4.14	104.70	113.60
29	F4	202	PEB	C3B-C4B-NB	4.14	116.07	110.05
29	H1	1002	PEB	OA-C1A-C2A	-4.14	122.88	126.17
29	JC	202	PEB	OA-C1A-C2A	-4.14	122.88	126.17
29	JE	202	PEB	OA-C1A-C2A	-4.14	122.88	126.17
29	JD	202	PEB	C1B-C2B-C3B	-4.14	101.76	106.51
30	MA	402	PUB	C1C-C2C-C3C	-4.14	102.20	106.78
29	G5	202	PEB	CHB-C4B-NB	-4.14	123.09	128.83
29	G8	202	PEB	CHB-C4B-NB	-4.14	123.09	128.83
29	U1	201	PEB	C3D-C4D-ND	4.14	115.38	107.26
29	UK	201	PEB	C3D-C4D-ND	4.14	115.38	107.26
29	a7	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	e7	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	a9	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	e9	201	PEB	CHC-C1D-ND	-4.14	109.14	113.95
29	MA	401	PEB	C4B-C3B-C2B	-4.14	102.20	106.78
29	X2	202	PEB	C2A-C1A-NA	4.14	111.84	108.27
29	TR	203	PEB	CAB-CBB-CGB	-4.14	104.70	113.60
29	MA	401	PEB	C3B-C4B-NB	4.13	116.06	110.05
30	A7	303	PUB	C1C-C2C-C3C	-4.13	102.21	106.78
30	A9	303	PUB	C1C-C2C-C3C	-4.13	102.21	106.78
29	OR	202	PEB	C1C-CHB-C4B	-4.13	123.87	128.81
29	B4	202	PEB	C3B-C4B-NB	4.13	116.06	110.05
29	BD	202	PEB	C3B-C4B-NB	4.13	116.06	110.05
29	wL	302	PEB	CHA-C1B-NB	-4.13	116.28	124.93
31	CF	1001	CYC	CHB-C4A-NA	-4.13	116.28	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	CI	1001	CYC	CHB-C4A-NA	-4.13	116.28	124.93
29	H8	202	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	FC	203	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	FE	203	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	m7	201	PEB	CHC-C1D-ND	-4.13	109.15	113.95
29	m9	201	PEB	CHC-C1D-ND	-4.13	109.15	113.95
29	N2	203	PEB	CAB-CBB-CGB	-4.13	104.71	113.60
29	NR	203	PEB	CAB-CBB-CGB	-4.13	104.71	113.60
29	LC	202	PEB	CHA-C1B-NB	-4.13	116.29	124.93
29	LE	202	PEB	CHA-C1B-NB	-4.13	116.29	124.93
29	j7	202	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	j9	202	PEB	OA-C1A-C2A	-4.13	122.89	126.17
31	EF	1001	CYC	CHB-C4A-NA	-4.13	116.29	124.93
31	EI	1001	CYC	CHB-C4A-NA	-4.13	116.29	124.93
29	NF	1002	PEB	CHB-C4B-NB	-4.13	123.09	128.83
29	NI	1002	PEB	CHB-C4B-NB	-4.13	123.09	128.83
31	J7	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
29	NO	203	PEB	CMB-C2B-C1B	4.13	131.43	125.06
31	H7	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
31	H9	1001	CYC	C1B-NB-C4B	-4.13	105.41	110.67
29	YF	202	PEB	OD-C4D-ND	-4.13	119.81	125.93
29	YI	202	PEB	OD-C4D-ND	-4.13	119.81	125.93
29	J4	202	PEB	C1B-C2B-C3B	-4.13	101.77	106.51
29	e1	202	PEB	C3D-C4D-ND	4.13	115.36	107.26
29	eK	202	PEB	C3D-C4D-ND	4.13	115.36	107.26
31	GF	1001	CYC	C4D-CHA-C1A	4.13	133.74	128.81
31	GI	1001	CYC	C4D-CHA-C1A	4.13	133.74	128.81
29	P7	201	PEB	CHC-C1D-ND	-4.13	109.15	113.95
29	P9	201	PEB	CHC-C1D-ND	-4.13	109.15	113.95
31	KF	1001	CYC	CHB-C4A-NA	-4.13	116.30	124.93
29	T2	203	PEB	CAB-CBB-CGB	-4.13	104.72	113.60
29	KC	201	PEB	CHA-C1B-NB	-4.13	116.30	124.93
29	KE	201	PEB	CHA-C1B-NB	-4.13	116.30	124.93
29	b7	202	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	b9	202	PEB	OA-C1A-C2A	-4.13	122.89	126.17
31	G9	1001	CYC	OC-C1C-C2C	-4.13	122.89	126.17
31	IF	1001	CYC	CHB-C4A-NA	-4.13	116.30	124.93
31	II	1001	CYC	CHB-C4A-NA	-4.13	116.30	124.93
29	Y7	201	PEB	C3B-C4B-NB	4.13	116.05	110.05
29	Y9	201	PEB	C3B-C4B-NB	4.13	116.05	110.05
29	Z1	201	PEB	C3D-C4D-ND	4.13	115.35	107.26
29	ZK	201	PEB	C3D-C4D-ND	4.13	115.35	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LC	203	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	LE	203	PEB	OA-C1A-C2A	-4.13	122.89	126.17
29	MN	401	PEB	C3B-C4B-NB	4.12	116.05	110.05
29	H4	202	PEB	C1B-C2B-C3B	-4.12	101.77	106.51
29	BD	202	PEB	C1B-C2B-C3B	-4.12	101.77	106.51
29	pJ	203	PEB	C3D-C4D-ND	4.12	115.35	107.26
29	pL	203	PEB	C3D-C4D-ND	4.12	115.35	107.26
29	c7	201	PEB	C3B-C4B-NB	4.12	116.05	110.05
29	c9	201	PEB	C3B-C4B-NB	4.12	116.05	110.05
29	DF	1002	PEB	CHB-C4B-NB	-4.12	123.11	128.83
29	DI	1002	PEB	CHB-C4B-NB	-4.12	123.11	128.83
29	j1	203	PEB	C3D-C4D-ND	4.12	115.35	107.26
29	jK	203	PEB	C3D-C4D-ND	4.12	115.35	107.26
29	B4	202	PEB	C1B-C2B-C3B	-4.12	101.78	106.51
29	HF	1002	PEB	CHB-C4B-NB	-4.12	123.11	128.83
29	HI	1002	PEB	CHB-C4B-NB	-4.12	123.11	128.83
31	L7	1001	CYC	C1B-NB-C4B	-4.12	105.42	110.67
29	WR	202	PEB	C2A-C1A-NA	4.12	111.83	108.27
29	c1	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	cK	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	A1	301	PEB	CHA-C1B-NB	-4.12	116.31	124.93
29	AK	301	PEB	CHA-C1B-NB	-4.12	116.31	124.93
31	MF	1001	CYC	CHB-C4A-NA	-4.12	116.32	124.93
31	MI	1001	CYC	CHB-C4A-NA	-4.12	116.32	124.93
29	L4	202	PEB	C3B-C4B-NB	4.12	116.04	110.05
29	P1	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	PK	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
31	KI	1001	CYC	CHB-C4A-NA	-4.12	116.32	124.93
29	FQ	203	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	R1	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	HJ	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	RK	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	HL	202	PEB	C3D-C4D-ND	4.12	115.34	107.26
29	V7	201	PEB	C3B-C4B-NB	4.12	116.04	110.05
29	V9	201	PEB	C3B-C4B-NB	4.12	116.04	110.05
29	LD	202	PEB	C3B-C4B-NB	4.12	116.04	110.05
29	V1	202	PEB	C3D-C4D-ND	4.12	115.33	107.26
29	VK	202	PEB	C3D-C4D-ND	4.12	115.33	107.26
29	BC	202	PEB	CHA-C1B-NB	-4.12	116.32	124.93
29	BE	202	PEB	CHA-C1B-NB	-4.12	116.32	124.93
29	H8	202	PEB	CHB-C4B-NB	-4.12	123.12	128.83
29	k7	201	PEB	C3B-C4B-NB	4.12	116.03	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k9	201	PEB	C3B-C4B-NB	4.12	116.03	110.05
29	AF	304	PEB	CHC-C1D-ND	-4.11	109.17	113.95
29	AI	304	PEB	CHC-C1D-ND	-4.11	109.17	113.95
29	kF	202	PEB	OD-C4D-ND	-4.11	119.83	125.93
29	kI	202	PEB	OD-C4D-ND	-4.11	119.83	125.93
29	HD	201	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	BJ	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	JJ	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	BL	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	JL	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
31	IF	1001	CYC	C4D-CHA-C1A	4.11	133.72	128.81
31	II	1001	CYC	C4D-CHA-C1A	4.11	133.72	128.81
29	FC	202	PEB	CHA-C1B-NB	-4.11	116.33	124.93
29	FE	202	PEB	CHA-C1B-NB	-4.11	116.33	124.93
29	e7	201	PEB	C3B-C4B-NB	4.11	116.03	110.05
29	e9	201	PEB	C3B-C4B-NB	4.11	116.03	110.05
29	YF	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	YI	203	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	FD	202	PEB	C3B-C4B-NB	4.11	116.03	110.05
29	k1	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	XB	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	kK	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	XM	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	B4	201	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	g1	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	gK	202	PEB	C3D-C4D-ND	4.11	115.33	107.26
29	VF	202	PEB	OD-C4D-ND	-4.11	119.84	125.93
29	VI	202	PEB	OD-C4D-ND	-4.11	119.84	125.93
29	bJ	203	PEB	C3D-C4D-ND	4.11	115.32	107.26
29	bL	203	PEB	C3D-C4D-ND	4.11	115.32	107.26
29	iF	202	PEB	OD-C4D-ND	-4.11	119.84	125.93
29	iI	202	PEB	OD-C4D-ND	-4.11	119.84	125.93
30	AM	305	PUB	CHB-C1C-NC	-4.11	123.13	128.83
29	PJ	203	PEB	C3D-C4D-ND	4.11	115.32	107.26
29	PL	203	PEB	C3D-C4D-ND	4.11	115.32	107.26
31	MF	1001	CYC	C4D-CHA-C1A	4.11	133.72	128.81
31	MI	1001	CYC	C4D-CHA-C1A	4.11	133.72	128.81
29	L4	202	PEB	C1B-C2B-C3B	-4.11	101.79	106.51
29	P7	201	PEB	C3B-C4B-NB	4.11	116.03	110.05
29	P9	201	PEB	C3B-C4B-NB	4.11	116.03	110.05
29	m7	201	PEB	C3B-C4B-NB	4.11	116.02	110.05
29	m9	201	PEB	C3B-C4B-NB	4.11	116.02	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	H5	202	PEB	CHB-C4B-NB	-4.11	123.13	128.83
29	F5	202	PEB	CHB-C4B-NB	-4.11	123.13	128.83
29	F8	202	PEB	CHB-C4B-NB	-4.11	123.13	128.83
29	R7	201	PEB	C3B-C4B-NB	4.11	116.02	110.05
29	R9	201	PEB	C3B-C4B-NB	4.11	116.02	110.05
29	D4	201	PEB	C3D-C4D-ND	4.11	115.31	107.26
29	F4	201	PEB	C3D-C4D-ND	4.11	115.31	107.26
29	rJ	203	PEB	C3D-C4D-ND	4.11	115.31	107.26
29	rL	203	PEB	C3D-C4D-ND	4.11	115.31	107.26
31	E7	1001	CYC	OC-C1C-C2C	-4.11	122.91	126.17
31	E9	1001	CYC	OC-C1C-C2C	-4.11	122.91	126.17
29	FD	201	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	O2	202	PEB	C2A-C1A-NA	4.10	111.81	108.27
29	kF	201	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	kI	201	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	F4	202	PEB	C1B-C2B-C3B	-4.10	101.80	106.51
29	DJ	202	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	lJ	203	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	DL	202	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	lL	203	PEB	C3D-C4D-ND	4.10	115.31	107.26
29	RJ	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	RL	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	D4	202	PEB	C3B-C4B-NB	4.10	116.01	110.05
29	nJ	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	nL	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	H4	201	PEB	C1B-C2B-C3B	-4.10	101.80	106.51
29	DD	202	PEB	C3B-C4B-NB	4.10	116.01	110.05
29	J4	201	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	FG	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	HC	202	PEB	CHA-C1B-NB	-4.10	116.36	124.93
29	HE	202	PEB	CHA-C1B-NB	-4.10	116.36	124.93
29	xJ	301	PEB	C1B-C2B-C3B	-4.10	101.80	106.51
29	B3	202	PEB	CHB-C4B-NB	-4.10	123.14	128.83
29	BO	202	PEB	CHB-C4B-NB	-4.10	123.14	128.83
29	LJ	202	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	VJ	202	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	LL	202	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	VL	202	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	FJ	201	PEB	CHC-C4C-C3C	-4.10	123.35	130.34
29	FL	201	PEB	CHC-C4C-C3C	-4.10	123.35	130.34
29	fJ	203	PEB	C3D-C4D-ND	4.10	115.30	107.26
29	fL	203	PEB	C3D-C4D-ND	4.10	115.30	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	W2	202	PEB	C2A-C1A-NA	4.10	111.80	108.27
30	A1	304	PUB	CMA-C2A-C1A	4.10	131.02	121.39
30	AK	304	PUB	CMA-C2A-C1A	4.10	131.02	121.39
29	G4	201	PEB	CHB-C4B-NB	-4.10	123.15	128.83
29	H4	201	PEB	C3D-C4D-ND	4.10	115.29	107.26
29	RB	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	eF	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	eI	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	RM	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	PJ	201	PEB	CHC-C4C-C3C	-4.09	123.35	130.34
29	PL	201	PEB	CHC-C4C-C3C	-4.09	123.35	130.34
31	yP	1001	CYC	CAB-C3B-C4B	4.09	127.84	121.38
29	J3	202	PEB	CHB-C4B-NB	-4.09	123.15	128.83
29	JO	202	PEB	CHB-C4B-NB	-4.09	123.15	128.83
29	ZJ	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	ZL	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	BQ	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	NJ	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	NL	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	VJ	201	PEB	OA-C1A-NA	4.09	129.90	124.94
29	VL	201	PEB	OA-C1A-NA	4.09	129.90	124.94
29	B5	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	HK	1002	PEB	OA-C1A-C2A	-4.09	122.92	126.17
29	FD	202	PEB	C1B-C2B-C3B	-4.09	101.81	106.51
29	a7	201	PEB	C3B-C4B-NB	4.09	116.00	110.05
29	a9	201	PEB	C3B-C4B-NB	4.09	116.00	110.05
29	DA	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	BD	201	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	FJ	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	FL	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	DN	203	PEB	C3D-C4D-ND	4.09	115.29	107.26
29	T7	201	PEB	C3B-C4B-NB	4.09	116.00	110.05
29	T9	201	PEB	C3B-C4B-NB	4.09	116.00	110.05
29	RJ	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	RL	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	TB	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	DD	201	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	BG	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	TM	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	I3	203	PEB	CHB-C4B-NB	-4.09	123.15	128.83
29	IO	203	PEB	CHB-C4B-NB	-4.09	123.15	128.83
31	I7	1001	CYC	OC-C1C-C2C	-4.09	122.92	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	I9	1001	CYC	OC-C1C-C2C	-4.09	122.92	126.17
31	L9	1001	CYC	C1B-NB-C4B	-4.09	105.46	110.67
29	H3	202	PEB	CHB-C4B-NB	-4.09	123.15	128.83
29	HO	202	PEB	CHB-C4B-NB	-4.09	123.15	128.83
29	tJ	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	tL	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	AM	303	PEB	OA-C1A-C2A	-4.09	122.92	126.17
29	Y7	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	Y9	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	PB	202	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	TJ	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	TL	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	PM	202	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	vJ	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	vL	201	PEB	CHC-C4C-C3C	-4.09	123.36	130.34
29	iB	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	PF	201	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	PI	201	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	iM	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
30	AB	304	PUB	C1C-C2C-C3C	-4.09	102.26	106.78
29	kB	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	aF	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	aI	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	kM	203	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	JD	202	PEB	C3B-C4B-NB	4.09	116.00	110.05
29	F3	202	PEB	CHB-C4B-NB	-4.09	123.16	128.83
29	FO	202	PEB	CHB-C4B-NB	-4.09	123.16	128.83
29	NB	202	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	NM	202	PEB	C3D-C4D-ND	4.09	115.28	107.26
29	GD	201	PEB	CHB-C4B-NB	-4.09	123.16	128.83
29	g7	201	PEB	C3B-C4B-NB	4.09	115.99	110.05
29	g9	201	PEB	C3B-C4B-NB	4.09	115.99	110.05
31	K9	1001	CYC	OC-C1C-C2C	-4.08	122.92	126.17
29	ZJ	201	PEB	OA-C1A-NA	4.08	129.89	124.94
29	ZL	201	PEB	OA-C1A-NA	4.08	129.89	124.94
29	HD	201	PEB	C1B-C2B-C3B	-4.08	101.82	106.51
29	aF	202	PEB	OD-C4D-ND	-4.08	119.88	125.93
29	aI	202	PEB	OD-C4D-ND	-4.08	119.88	125.93
29	hJ	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	hL	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	LD	201	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	dJ	201	PEB	OA-C1A-NA	4.08	129.89	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	dL	201	PEB	OA-C1A-NA	4.08	129.89	124.94
29	eF	201	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	eI	201	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	tJ	202	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	tL	202	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	LD	202	PEB	C1B-C2B-C3B	-4.08	101.82	106.51
29	BA	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	kF	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	kI	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	BN	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	DJ	201	PEB	CHC-C4C-C3C	-4.08	123.37	130.34
29	DL	201	PEB	CHC-C4C-C3C	-4.08	123.37	130.34
29	NJ	201	PEB	OA-C1A-NA	4.08	129.89	124.94
29	NL	201	PEB	OA-C1A-NA	4.08	129.89	124.94
29	mB	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	iF	201	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	iI	201	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	mM	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	FB	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	cB	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	JG	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	vJ	202	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	vL	202	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	FM	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	cM	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	MN	401	PEB	C4B-C3B-C2B	-4.08	102.27	106.78
29	IJ	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	IL	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	JF	1002	PEB	OA-C1A-C2A	-4.08	122.93	126.17
29	JI	1002	PEB	OA-C1A-C2A	-4.08	122.93	126.17
29	T7	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	T9	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	dJ	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	dL	203	PEB	C3D-C4D-ND	4.08	115.27	107.26
29	L4	201	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	PF	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	PI	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	fJ	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	fL	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	gF	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	gI	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	JD	201	PEB	C3D-C4D-ND	4.08	115.26	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mF	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	mI	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	m7	203	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	m9	203	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	nJ	201	PEB	OA-C1A-NA	4.08	129.88	124.94
29	nL	201	PEB	OA-C1A-NA	4.08	129.88	124.94
29	O7	201	PEB	C1B-C2B-C3B	-4.08	101.83	106.51
29	O9	201	PEB	C1B-C2B-C3B	-4.08	101.83	106.51
29	TF	202	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	TI	202	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	i7	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	i9	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	NJ	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	jJ	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	NL	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	jL	201	PEB	CHC-C4C-C3C	-4.08	123.38	130.34
29	hJ	201	PEB	OA-C1A-NA	4.08	129.88	124.94
29	hL	201	PEB	OA-C1A-NA	4.08	129.88	124.94
29	m7	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	m9	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	JB	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	LB	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	JM	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	LM	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	ZB	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	cF	202	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	cI	202	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	ZM	203	PEB	C3D-C4D-ND	4.08	115.26	107.26
29	gF	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	gI	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	rJ	201	PEB	OA-C1A-NA	4.07	129.88	124.94
29	rL	201	PEB	OA-C1A-NA	4.07	129.88	124.94
29	FF	1002	PEB	OA-C1A-C2A	-4.07	122.93	126.17
29	FI	1002	PEB	OA-C1A-C2A	-4.07	122.93	126.17
30	yJ	302	PUB	CMA-C2A-C1A	4.07	130.97	121.39
30	yL	302	PUB	CMA-C2A-C1A	4.07	130.97	121.39
29	h1	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	a7	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	a9	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	LA	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	hK	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	LN	203	PEB	C3D-C4D-ND	4.07	115.25	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	R7	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	R9	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	bJ	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	pJ	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	bL	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	pL	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	yJ	301	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	yL	301	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	JA	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	VF	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	YF	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	VI	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	YI	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	XJ	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	XL	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	JN	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	RR	201	PEB	C4B-C3B-C2B	-4.07	102.28	106.78
29	ZJ	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	ZL	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	M3	203	PEB	CMB-C2B-C1B	4.07	131.33	125.06
29	MO	203	PEB	CMB-C2B-C1B	4.07	131.33	125.06
29	DB	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	RF	202	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	aF	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	LG	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	RI	202	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	aI	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	DM	203	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	bJ	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	bL	201	PEB	OA-C1A-NA	4.07	129.87	124.94
30	AM	304	PUB	C1C-C2C-C3C	-4.07	102.28	106.78
29	VF	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	VI	201	PEB	C3D-C4D-ND	4.07	115.25	107.26
29	TJ	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	TL	201	PEB	CHC-C4C-C3C	-4.07	123.39	130.34
29	b1	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	eB	202	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	bK	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	eM	202	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	e7	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	e9	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	NR	202	PEB	C3D-C4D-ND	4.07	115.24	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	G5	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	B8	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	HA	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	HN	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	FA	202	PEB	C4B-C3B-C2B	-4.07	102.28	106.78
29	FN	202	PEB	C4B-C3B-C2B	-4.07	102.28	106.78
29	TR	201	PEB	C4B-C3B-C2B	-4.07	102.28	106.78
29	K4	201	PEB	CHB-C4B-NB	-4.07	123.18	128.83
29	N3	203	PEB	C1C-CHB-C4B	4.07	133.67	128.81
29	J4	202	PEB	C3B-C4B-NB	4.07	115.97	110.05
29	JJ	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	JL	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	Q1	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	HB	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	gB	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	cF	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	cI	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	QK	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	HM	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	gM	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	KC	201	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	KE	201	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	I4	201	PEB	CHB-C4B-NB	-4.07	123.19	128.83
29	E3	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	EO	201	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	xL	301	PEB	C1B-C2B-C3B	-4.07	101.84	106.51
29	GA	202	PEB	C1C-CHB-C4B	4.07	133.67	128.81
29	GN	202	PEB	C1C-CHB-C4B	4.07	133.67	128.81
29	JJ	201	PEB	CHC-C4C-C3C	-4.07	123.40	130.34
29	JL	201	PEB	CHC-C4C-C3C	-4.07	123.40	130.34
29	RJ	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	RL	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	B4	201	PEB	C1B-C2B-C3B	-4.07	101.84	106.51
29	dJ	201	PEB	CHC-C4C-C3C	-4.07	123.40	130.34
29	dL	201	PEB	CHC-C4C-C3C	-4.07	123.40	130.34
29	L8	201	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	MN	405	PEB	OA-C1A-C2A	-4.07	122.94	126.17
29	C4	201	PEB	CHB-C4B-NB	-4.07	123.19	128.83
29	VB	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	VM	203	PEB	C3D-C4D-ND	4.07	115.24	107.26
29	S1	201	PEB	C3D-C4D-ND	4.07	115.23	107.26
29	U1	202	PEB	C3D-C4D-ND	4.07	115.23	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SK	201	PEB	C3D-C4D-ND	4.07	115.23	107.26
29	UK	202	PEB	C3D-C4D-ND	4.07	115.23	107.26
29	A3	201	PEB	CHA-C1B-NB	-4.07	116.43	124.93
29	AO	201	PEB	CHA-C1B-NB	-4.07	116.43	124.93
29	BJ	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	BL	201	PEB	OA-C1A-NA	4.07	129.87	124.94
29	i7	201	PEB	C3B-C4B-NB	4.06	115.96	110.05
29	i9	201	PEB	C3B-C4B-NB	4.06	115.96	110.05
29	k7	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	k9	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	FA	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	FN	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	P7	203	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	P9	203	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	hJ	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	hL	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	RF	201	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	RI	201	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	jJ	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	jL	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	E4	201	PEB	CHB-C4B-NB	-4.06	123.19	128.83
29	DQ	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	AC	201	PEB	OA-C1A-C2A	-4.06	122.94	126.17
29	AE	201	PEB	OA-C1A-C2A	-4.06	122.94	126.17
30	MA	403	PUB	CMA-C2A-C1A	4.06	130.95	121.39
29	nJ	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	nL	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	O1	201	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	AF	304	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	AI	304	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	OK	201	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	I3	201	PEB	CHA-C1B-NB	-4.06	116.43	124.93
29	IO	201	PEB	CHA-C1B-NB	-4.06	116.43	124.93
29	H4	202	PEB	C3B-C4B-NB	4.06	115.96	110.05
29	P7	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	P9	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	DG	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	GC	201	PEB	OA-C1A-C2A	-4.06	122.94	126.17
29	GE	201	PEB	OA-C1A-C2A	-4.06	122.94	126.17
29	m1	201	PEB	CHA-C1B-NB	-4.06	116.44	124.93
29	mK	201	PEB	CHA-C1B-NB	-4.06	116.44	124.93
29	BJ	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BL	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	HG	203	PEB	C3D-C4D-ND	4.06	115.23	107.26
29	Z1	202	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	BB	301	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	ZK	202	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	BM	301	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	MD	201	PEB	CHB-C4B-NB	-4.06	123.19	128.83
29	AB	303	PEB	OA-C1A-C2A	-4.06	122.94	126.17
31	VP	1001	CYC	C2C-C3C-C4C	4.06	107.42	101.34
29	IJ	201	PEB	OA-C1A-NA	4.06	129.86	124.94
29	IL	201	PEB	OA-C1A-NA	4.06	129.86	124.94
29	d1	201	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	dK	201	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	XJ	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	rJ	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	XL	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	rL	201	PEB	CHC-C4C-C3C	-4.06	123.41	130.34
29	V2	201	PEB	C4B-C3B-C2B	-4.06	102.29	106.78
29	A1	303	PEB	OA-C1A-C2A	-4.06	122.95	126.17
29	AK	303	PEB	OA-C1A-C2A	-4.06	122.95	126.17
29	G8	203	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	P1	201	PEB	CHA-C1B-NB	-4.06	116.44	124.93
29	PK	201	PEB	CHA-C1B-NB	-4.06	116.44	124.93
29	XR	201	PEB	C4B-C3B-C2B	-4.06	102.29	106.78
30	MN	403	PUB	CMA-C2A-C1A	4.06	130.94	121.39
29	V7	203	PEB	CHC-C4C-C3C	-4.06	123.42	130.34
29	V9	203	PEB	CHC-C4C-C3C	-4.06	123.42	130.34
29	J4	201	PEB	C1B-C2B-C3B	-4.06	101.85	106.51
29	LJ	201	PEB	CHC-C4C-C3C	-4.06	123.42	130.34
29	LL	201	PEB	CHC-C4C-C3C	-4.06	123.42	130.34
29	TI	201	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	Y1	201	PEB	CHA-C1B-NB	-4.06	116.45	124.93
29	YK	201	PEB	CHA-C1B-NB	-4.06	116.45	124.93
29	l1	201	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	lK	201	PEB	C3D-C4D-ND	4.06	115.22	107.26
29	M3	203	PEB	C1C-CHB-C4B	4.06	133.65	128.81
29	MO	203	PEB	C1C-CHB-C4B	4.06	133.65	128.81
29	HA	202	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	HN	202	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	FD	201	PEB	C1B-C2B-C3B	-4.05	101.85	106.51
29	F5	203	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	F8	203	PEB	C3D-C4D-ND	4.05	115.21	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KD	201	PEB	CHB-C4B-NB	-4.05	123.20	128.83
29	W1	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	f1	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	WK	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	fK	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	TJ	201	PEB	OA-C1A-NA	4.05	129.85	124.94
29	TL	201	PEB	OA-C1A-NA	4.05	129.85	124.94
29	DA	202	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	DN	202	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	i1	201	PEB	CHA-C1B-NB	-4.05	116.45	124.93
29	iK	201	PEB	CHA-C1B-NB	-4.05	116.45	124.93
29	Y7	203	PEB	CHC-C4C-C3C	-4.05	123.42	130.34
29	Y9	203	PEB	CHC-C4C-C3C	-4.05	123.42	130.34
29	R7	203	PEB	CHC-C4C-C3C	-4.05	123.42	130.34
29	R9	203	PEB	CHC-C4C-C3C	-4.05	123.42	130.34
29	tJ	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	tL	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	T2	201	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	V7	203	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	V9	203	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	LJ	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	LL	201	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	pJ	201	PEB	OA-C1A-NA	4.05	129.85	124.94
29	pL	201	PEB	OA-C1A-NA	4.05	129.85	124.94
29	c1	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	cK	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	M4	201	PEB	CHB-C4B-NB	-4.05	123.21	128.83
29	F4	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	YF	202	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	gF	202	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	YI	202	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	gI	202	PEB	C3D-C4D-ND	4.05	115.21	107.26
29	iF	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	mF	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	iI	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	mI	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	g1	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	gK	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	JD	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	k1	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	kK	201	PEB	CHA-C1B-NB	-4.05	116.46	124.93
29	FJ	201	PEB	OA-C1A-NA	4.05	129.85	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FL	201	PEB	OA-C1A-NA	4.05	129.85	124.94
29	I3	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	IO	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	c7	203	PEB	CHC-C4C-C3C	-4.05	123.43	130.34
29	i7	203	PEB	CHC-C4C-C3C	-4.05	123.43	130.34
29	c9	203	PEB	CHC-C4C-C3C	-4.05	123.43	130.34
29	i9	203	PEB	CHC-C4C-C3C	-4.05	123.43	130.34
29	j1	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	jK	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	U7	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	U9	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	P2	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	V2	202	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	c7	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	c9	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	K5	203	PEB	CHB-C4B-NB	-4.05	123.21	128.83
29	K8	203	PEB	CHB-C4B-NB	-4.05	123.21	128.83
29	jJ	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	jL	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	LF	1002	PEB	OA-C1A-C2A	-4.05	122.95	126.17
29	LI	1002	PEB	OA-C1A-C2A	-4.05	122.95	126.17
29	W7	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	W9	201	PEB	C1B-C2B-C3B	-4.05	101.86	106.51
29	MQ	403	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	OF	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	OI	203	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	N2	201	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	NR	201	PEB	C4B-C3B-C2B	-4.05	102.30	106.78
29	SR	202	PEB	C2A-C1A-NA	4.05	111.76	108.27
29	I5	203	PEB	CHB-C4B-NB	-4.05	123.22	128.83
29	I8	203	PEB	CHB-C4B-NB	-4.05	123.22	128.83
29	VJ	201	PEB	CHC-C4C-C3C	-4.05	123.44	130.34
29	VL	201	PEB	CHC-C4C-C3C	-4.05	123.44	130.34
29	dF	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	eF	202	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	dI	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	eI	202	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	IJ	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	IL	201	PEB	C3D-C4D-ND	4.05	115.20	107.26
29	G3	201	PEB	CHA-C1B-NB	-4.05	116.47	124.93
29	GO	201	PEB	CHA-C1B-NB	-4.05	116.47	124.93
29	dD	401	PEB	CHB-C4B-NB	-4.04	123.22	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D4	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	Q7	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	b7	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	j7	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	Q9	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	b9	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	j9	201	PEB	C1B-C2B-C3B	-4.04	101.86	106.51
29	g7	203	PEB	CHC-C4C-C3C	-4.04	123.44	130.34
29	g9	203	PEB	CHC-C4C-C3C	-4.04	123.44	130.34
29	mF	202	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	mI	202	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	L5	203	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	NJ	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	NL	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	HQ	203	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	N2	202	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	L8	203	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	e7	203	PEB	CHC-C4C-C3C	-4.04	123.44	130.34
29	e9	203	PEB	CHC-C4C-C3C	-4.04	123.44	130.34
31	xP	1001	CYC	C2C-C3C-C4C	4.04	107.39	101.34
29	DJ	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	DL	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	C3	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	CO	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	BA	202	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	BN	202	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	VR	201	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	K3	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	KO	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	R2	201	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	vJ	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	vL	201	PEB	C3D-C4D-ND	4.04	115.19	107.26
29	LD	201	PEB	C1B-C2B-C3B	-4.04	101.87	106.51
29	e1	201	PEB	CHA-C1B-NB	-4.04	116.48	124.93
29	eK	201	PEB	CHA-C1B-NB	-4.04	116.48	124.93
29	e2	402	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	HD	202	PEB	C3B-C4B-NB	4.04	115.92	110.05
29	T1	201	PEB	CHA-C1B-NB	-4.04	116.49	124.93
29	TK	201	PEB	CHA-C1B-NB	-4.04	116.49	124.93
29	PF	202	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	PI	202	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	wL	303	PEB	C1B-C2B-C3B	-4.04	101.87	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KA	202	PEB	C1C-CHB-C4B	4.04	133.63	128.81
29	KN	202	PEB	C1C-CHB-C4B	4.04	133.63	128.81
30	A7	303	PUB	CMA-C2A-C1A	4.04	130.89	121.39
30	A9	303	PUB	CMA-C2A-C1A	4.04	130.89	121.39
29	XR	202	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	LA	202	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	LN	202	PEB	C4B-C3B-C2B	-4.04	102.31	106.78
29	DJ	201	PEB	OA-C1A-NA	4.04	129.83	124.94
29	LJ	201	PEB	OA-C1A-NA	4.04	129.83	124.94
29	DL	201	PEB	OA-C1A-NA	4.04	129.83	124.94
29	LL	201	PEB	OA-C1A-NA	4.04	129.83	124.94
31	WP	1001	CYC	CAB-C3B-C4B	4.04	127.75	121.38
29	wJ	303	PEB	C1B-C2B-C3B	-4.04	101.87	106.51
29	H5	203	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	UF	201	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	UI	201	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	VR	202	PEB	C3D-C4D-ND	4.04	115.18	107.26
29	C5	203	PEB	CHB-C4B-NB	-4.04	123.23	128.83
29	vJ	201	PEB	OA-C1A-NA	4.04	129.83	124.94
29	vL	201	PEB	OA-C1A-NA	4.04	129.83	124.94
29	R1	201	PEB	CHA-C1B-NB	-4.04	116.49	124.93
29	RK	201	PEB	CHA-C1B-NB	-4.04	116.49	124.93
29	T7	203	PEB	CHC-C4C-C3C	-4.04	123.45	130.34
29	T9	203	PEB	CHC-C4C-C3C	-4.04	123.45	130.34
29	S7	201	PEB	C1B-C2B-C3B	-4.03	101.88	106.51
29	S9	201	PEB	C1B-C2B-C3B	-4.03	101.88	106.51
29	TJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	nJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	TL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	nL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	JA	202	PEB	C4B-C3B-C2B	-4.03	102.32	106.78
29	JN	202	PEB	C4B-C3B-C2B	-4.03	102.32	106.78
29	CD	201	PEB	CHB-C4B-NB	-4.03	123.23	128.83
29	g7	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	g9	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	JJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	bJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	JL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	bL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	Q2	202	PEB	C2A-C1A-NA	4.03	111.75	108.27
29	EA	202	PEB	C1C-CHB-C4B	4.03	133.63	128.81
29	EN	202	PEB	C1C-CHB-C4B	4.03	133.63	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	M3	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	iF	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	iI	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	RJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	RL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	MO	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	JQ	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	H8	203	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	FJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	FL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	LQ	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	IC	201	PEB	OA-C1A-C2A	-4.03	122.97	126.17
29	IE	201	PEB	OA-C1A-C2A	-4.03	122.97	126.17
29	A3	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	AO	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	PJ	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	PL	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	V1	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	VK	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	NO	203	PEB	C1C-CHB-C4B	4.03	133.62	128.81
29	h7	201	PEB	C1B-C2B-C3B	-4.03	101.88	106.51
29	h9	201	PEB	C1B-C2B-C3B	-4.03	101.88	106.51
29	VF	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	VI	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	dJ	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	dL	201	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	kF	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	kI	202	PEB	C3D-C4D-ND	4.03	115.17	107.26
29	AA	202	PEB	C1C-CHB-C4B	4.03	133.62	128.81
29	AN	202	PEB	C1C-CHB-C4B	4.03	133.62	128.81
29	C3	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	K3	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	CO	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	KO	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	DD	201	PEB	C1B-C2B-C3B	-4.03	101.88	106.51
29	a1	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	aK	201	PEB	CHA-C1B-NB	-4.03	116.50	124.93
29	X2	201	PEB	C3D-C4D-ND	4.03	115.16	107.26
29	M2	202	PEB	CHC-C4C-C3C	-4.03	123.47	130.34
29	LC	202	PEB	OA-C1A-C2A	-4.03	122.97	126.17
29	LE	202	PEB	OA-C1A-C2A	-4.03	122.97	126.17
29	G3	201	PEB	C3D-C4D-ND	4.03	115.16	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GO	201	PEB	C3D-C4D-ND	4.03	115.16	107.26
29	G5	201	PEB	CHC-C4C-C3C	-4.03	123.47	130.34
29	a7	203	PEB	CHC-C4C-C3C	-4.03	123.47	130.34
29	a9	203	PEB	CHC-C4C-C3C	-4.03	123.47	130.34
29	XJ	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	XL	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	IA	202	PEB	C1C-CHB-C4B	4.03	133.62	128.81
29	IN	202	PEB	C1C-CHB-C4B	4.03	133.62	128.81
29	fJ	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	fL	201	PEB	OA-C1A-NA	4.03	129.82	124.94
29	jJ	201	PEB	OA-C1A-NA	4.02	129.82	124.94
29	jL	201	PEB	OA-C1A-NA	4.02	129.82	124.94
29	ZJ	201	PEB	C3D-C4D-ND	4.02	115.16	107.26
29	ZL	201	PEB	C3D-C4D-ND	4.02	115.16	107.26
29	XJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	fJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	XL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	fL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	EC	201	PEB	OA-C1A-C2A	-4.02	122.97	126.17
29	EE	201	PEB	OA-C1A-C2A	-4.02	122.97	126.17
29	pJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	pL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	M2	202	PEB	C2A-C1A-NA	4.02	111.74	108.27
29	l7	201	PEB	C1B-C2B-C3B	-4.02	101.89	106.51
29	l9	201	PEB	C1B-C2B-C3B	-4.02	101.89	106.51
29	BJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	BL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	WF	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	WI	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	L4	201	PEB	C1B-C2B-C3B	-4.02	101.89	106.51
29	hJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	rJ	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	hL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	rL	201	PEB	C3D-C4D-ND	4.02	115.15	107.26
29	jF	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	jI	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	E3	201	PEB	CHA-C1B-NB	-4.02	116.52	124.93
29	EO	201	PEB	CHA-C1B-NB	-4.02	116.52	124.93
29	Z7	201	PEB	C1B-C2B-C3B	-4.02	101.89	106.51
29	Z9	201	PEB	C1B-C2B-C3B	-4.02	101.89	106.51
29	I5	203	PEB	CHC-C1D-ND	-4.02	109.28	113.95
29	I8	203	PEB	CHC-C1D-ND	-4.02	109.28	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KC	202	PEB	OA-C1A-C2A	-4.02	122.98	126.17
29	KE	202	PEB	OA-C1A-C2A	-4.02	122.98	126.17
29	DF	1002	PEB	OA-C1A-C2A	-4.02	122.98	126.17
29	DI	1002	PEB	OA-C1A-C2A	-4.02	122.98	126.17
29	SF	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	IF	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	SI	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	II	202	PEB	CHB-C4B-NB	-4.02	123.25	128.83
29	A7	305	PEB	CMB-C2B-C1B	4.02	131.25	125.06
29	A9	305	PEB	CMB-C2B-C1B	4.02	131.25	125.06
29	W2	202	PEB	CHC-C4C-C3C	-4.02	123.48	130.34
29	k7	203	PEB	CHC-C4C-C3C	-4.02	123.48	130.34
29	k9	203	PEB	CHC-C4C-C3C	-4.02	123.48	130.34
29	PR	201	PEB	C3D-C4D-ND	4.02	115.14	107.26
29	FA	203	PEB	CMB-C2B-C1B	4.02	131.25	125.06
29	FN	203	PEB	CMB-C2B-C1B	4.02	131.25	125.06
29	K5	203	PEB	CHC-C1D-ND	-4.02	109.28	113.95
29	H3	203	PEB	C3D-C4D-ND	4.02	115.14	107.26
29	HO	203	PEB	C3D-C4D-ND	4.02	115.14	107.26
29	WR	202	PEB	CHC-C4C-C3C	-4.02	123.49	130.34
30	AF	303	PUB	CHC-C1D-ND	-4.02	108.64	113.72
30	AI	303	PUB	CHC-C1D-ND	-4.02	108.64	113.72
29	O2	202	PEB	CHC-C4C-C3C	-4.02	123.49	130.34
30	BB	302	PUB	CHA-C1B-C2B	-4.02	123.49	130.34
30	BM	302	PUB	CHA-C1B-C2B	-4.02	123.49	130.34
29	wJ	301	PEB	C1B-C2B-C3B	-4.01	101.90	106.51
29	S2	202	PEB	C2A-C1A-NA	4.01	111.73	108.27
29	ID	201	PEB	CHB-C4B-NB	-4.01	123.26	128.83
30	yL	303	PUB	C1C-C2C-C3C	-4.01	102.34	106.78
29	AC	201	PEB	CHC-C1D-ND	-4.01	109.29	113.95
29	AE	201	PEB	CHC-C1D-ND	-4.01	109.29	113.95
29	VJ	201	PEB	C3D-C4D-ND	4.01	115.13	107.26
29	VL	201	PEB	C3D-C4D-ND	4.01	115.13	107.26
29	CC	201	PEB	OA-C1A-C2A	-4.01	122.98	126.17
29	CE	201	PEB	OA-C1A-C2A	-4.01	122.98	126.17
30	A1	305	PUB	CMA-C2A-C1A	4.01	130.83	121.39
30	AK	305	PUB	CMA-C2A-C1A	4.01	130.83	121.39
29	aF	202	PEB	C3D-C4D-ND	4.01	115.13	107.26
29	MG	401	PEB	C3D-C4D-ND	4.01	115.13	107.26
29	aI	202	PEB	C3D-C4D-ND	4.01	115.13	107.26
29	C5	203	PEB	CHC-C1D-ND	-4.01	109.29	113.95
29	RR	202	PEB	C3D-C4D-ND	4.01	115.13	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Q2	202	PEB	CHC-C4C-C3C	-4.01	123.50	130.34
29	tJ	201	PEB	OA-C1A-NA	4.01	129.80	124.94
29	tL	201	PEB	OA-C1A-NA	4.01	129.80	124.94
29	f7	201	PEB	C1B-C2B-C3B	-4.01	101.90	106.51
29	f9	201	PEB	C1B-C2B-C3B	-4.01	101.90	106.51
29	C8	203	PEB	CHB-C4B-NB	-4.01	123.27	128.83
29	TR	202	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	PJ	201	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	PL	201	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	fF	202	PEB	CHB-C4B-NB	-4.01	123.27	128.83
29	fI	202	PEB	CHB-C4B-NB	-4.01	123.27	128.83
29	MA	404	PEB	C1B-C2B-C3B	-4.01	101.91	106.51
29	QR	202	PEB	C2A-C1A-NA	4.01	111.73	108.27
31	D7	1001	CYC	C4D-CHA-C1A	4.01	133.59	128.81
31	D9	1001	CYC	C4D-CHA-C1A	4.01	133.59	128.81
29	G8	201	PEB	CHC-C4C-C3C	-4.01	123.50	130.34
29	LC	202	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	LE	202	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	B8	201	PEB	CHC-C4C-C3C	-4.01	123.50	130.34
29	T2	202	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	M3	201	PEB	C1B-C2B-C3B	-4.01	101.91	106.51
29	d7	201	PEB	C1B-C2B-C3B	-4.01	101.91	106.51
29	d9	201	PEB	C1B-C2B-C3B	-4.01	101.91	106.51
29	MO	201	PEB	C1B-C2B-C3B	-4.01	101.91	106.51
29	N3	203	PEB	C3D-C4D-ND	4.01	115.12	107.26
29	U2	202	PEB	CHC-C4C-C3C	-4.00	123.51	130.34
29	LC	203	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	LE	203	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	F8	201	PEB	CHC-C4C-C3C	-4.00	123.51	130.34
30	A7	303	PUB	CHA-C1B-C2B	-4.00	123.51	130.34
30	A9	303	PUB	CHA-C1B-C2B	-4.00	123.51	130.34
29	A5	203	PEB	CHC-C1D-ND	-4.00	109.30	113.95
29	xJ	303	PEB	C1B-C2B-C3B	-4.00	101.91	106.51
29	wL	301	PEB	C1B-C2B-C3B	-4.00	101.91	106.51
29	xL	303	PEB	C1B-C2B-C3B	-4.00	101.92	106.51
29	F5	201	PEB	CHC-C4C-C3C	-4.00	123.52	130.34
29	BC	202	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	BE	202	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	B5	201	PEB	CHC-C4C-C3C	-4.00	123.52	130.34
29	L3	202	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	HC	202	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	HE	202	PEB	C3D-C4D-ND	4.00	115.11	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LO	202	PEB	C3D-C4D-ND	4.00	115.11	107.26
29	OF	202	PEB	CHB-C4B-NB	-4.00	123.28	128.83
29	OI	202	PEB	CHB-C4B-NB	-4.00	123.28	128.83
29	NR	203	PEB	CHB-C4B-NB	-4.00	123.28	128.83
29	FC	201	PEB	OA-C1A-C2A	-4.00	122.99	126.17
29	FE	201	PEB	OA-C1A-C2A	-4.00	122.99	126.17
29	JA	203	PEB	CMB-C2B-C1B	4.00	131.22	125.06
29	JN	203	PEB	CMB-C2B-C1B	4.00	131.22	125.06
29	R2	202	PEB	C3D-C4D-ND	4.00	115.10	107.26
29	NF	1002	PEB	OA-C1A-C2A	-4.00	123.00	126.17
29	NI	1002	PEB	OA-C1A-C2A	-4.00	123.00	126.17
29	OF	203	PEB	C4B-C3B-C2B	-4.00	102.36	106.78
29	OI	203	PEB	C4B-C3B-C2B	-4.00	102.36	106.78
30	yJ	303	PUB	C1C-C2C-C3C	-4.00	102.36	106.78
29	bF	202	PEB	CHB-C4B-NB	-4.00	123.28	128.83
29	bI	202	PEB	CHB-C4B-NB	-4.00	123.28	128.83
29	D3	203	PEB	C3D-C4D-ND	4.00	115.10	107.26
29	DO	203	PEB	C3D-C4D-ND	4.00	115.10	107.26
29	JC	202	PEB	C3D-C4D-ND	3.99	115.10	107.26
29	JE	202	PEB	C3D-C4D-ND	3.99	115.10	107.26
29	A8	203	PEB	CHC-C1D-ND	-3.99	109.31	113.95
29	UR	202	PEB	CHC-C4C-C3C	-3.99	123.53	130.34
29	HA	203	PEB	CMB-C2B-C1B	3.99	131.21	125.06
29	HN	203	PEB	CMB-C2B-C1B	3.99	131.21	125.06
29	NF	1002	PEB	CHC-C1D-ND	3.99	118.58	113.95
29	NI	1002	PEB	CHC-C1D-ND	3.99	118.58	113.95
29	C5	202	PEB	OA-C1A-C2A	-3.99	123.00	126.17
29	C8	202	PEB	OA-C1A-C2A	-3.99	123.00	126.17
29	K8	203	PEB	CHC-C1D-ND	-3.99	109.31	113.95
29	A7	301	PEB	CHC-C4C-C3C	-3.99	123.53	130.34
29	A9	301	PEB	CHC-C4C-C3C	-3.99	123.53	130.34
29	T2	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
29	A5	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
29	A8	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
29	TR	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
31	H7	1001	CYC	C4D-CHA-C1A	3.99	133.58	128.81
31	H9	1001	CYC	C4D-CHA-C1A	3.99	133.58	128.81
29	KC	201	PEB	C3D-C4D-ND	3.99	115.09	107.26
29	KE	201	PEB	C3D-C4D-ND	3.99	115.09	107.26
29	LA	203	PEB	CMB-C2B-C1B	3.99	131.21	125.06
29	LN	203	PEB	CMB-C2B-C1B	3.99	131.21	125.06
29	AC	203	PEB	C3D-C4D-ND	3.99	115.09	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AE	203	PEB	C3D-C4D-ND	3.99	115.09	107.26
29	BD	201	PEB	C1B-C2B-C3B	-3.99	101.93	106.51
29	NO	203	PEB	C3D-C4D-ND	3.99	115.09	107.26
29	iF	201	PEB	OA-C1A-C2A	-3.99	123.00	126.17
29	iI	201	PEB	OA-C1A-C2A	-3.99	123.00	126.17
29	UF	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
29	UI	203	PEB	CHB-C4B-NB	-3.99	123.29	128.83
29	A1	301	PEB	C3D-C4D-ND	3.99	115.08	107.26
29	AK	301	PEB	C3D-C4D-ND	3.99	115.08	107.26
31	J7	1001	CYC	C4D-CHA-C1A	3.99	133.57	128.81
29	dF	203	PEB	CHB-C4B-NB	-3.99	123.30	128.83
29	dI	203	PEB	CHB-C4B-NB	-3.99	123.30	128.83
29	S2	202	PEB	CHC-C4C-C3C	-3.99	123.54	130.34
31	J9	1001	CYC	C4D-CHA-C1A	3.99	133.57	128.81
29	H8	201	PEB	CHC-C4C-C3C	-3.99	123.54	130.34
29	LB	203	PEB	C4B-C3B-C2B	-3.98	102.37	106.78
29	LM	203	PEB	C4B-C3B-C2B	-3.98	102.37	106.78
29	CA	202	PEB	C1C-CHB-C4B	3.98	133.57	128.81
29	CN	202	PEB	C1C-CHB-C4B	3.98	133.57	128.81
29	F3	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	FC	202	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	FE	202	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	FO	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	FC	202	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	FE	202	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	DC	202	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	DE	202	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	BA	203	PEB	CMB-C2B-C1B	3.98	131.20	125.06
29	BN	203	PEB	CMB-C2B-C1B	3.98	131.20	125.06
29	QR	202	PEB	CHC-C4C-C3C	-3.98	123.55	130.34
29	F3	201	PEB	CHC-C1D-ND	-3.98	109.32	113.95
29	FO	201	PEB	CHC-C1D-ND	-3.98	109.32	113.95
29	L5	201	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	B3	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	BO	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	QF	202	PEB	CHB-C4B-NB	-3.98	123.30	128.83
29	QI	202	PEB	CHB-C4B-NB	-3.98	123.30	128.83
29	k7	202	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	k9	202	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	HB	203	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	HM	203	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	L8	201	PEB	CHC-C4C-C3C	-3.98	123.55	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NO	201	PEB	C1B-C2B-C3B	-3.98	101.94	106.51
29	M4	203	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	H5	201	PEB	CHC-C4C-C3C	-3.98	123.55	130.34
29	H3	201	PEB	CHC-C1D-ND	-3.98	109.33	113.95
29	HO	201	PEB	CHC-C1D-ND	-3.98	109.33	113.95
29	J3	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	JO	203	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	VR	201	PEB	C3D-C4D-ND	3.98	115.07	107.26
29	RR	203	PEB	CHB-C4B-NB	-3.98	123.31	128.83
29	CC	201	PEB	CHC-C1D-ND	-3.98	109.33	113.95
29	CE	201	PEB	CHC-C1D-ND	-3.98	109.33	113.95
29	NB	202	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	NM	202	PEB	C4B-C3B-C2B	-3.98	102.38	106.78
29	hF	202	PEB	CHB-C4B-NB	-3.98	123.31	128.83
29	hI	202	PEB	CHB-C4B-NB	-3.98	123.31	128.83
29	AF	301	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	AI	301	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	J5	202	PEB	C3D-C4D-ND	3.98	115.06	107.26
29	J8	202	PEB	C3D-C4D-ND	3.98	115.06	107.26
29	L5	201	PEB	CHC-C4C-C3C	-3.98	123.55	130.34
29	N3	201	PEB	C1B-C2B-C3B	-3.98	101.94	106.51
29	JC	201	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	JE	201	PEB	OA-C1A-C2A	-3.98	123.01	126.17
29	FC	203	PEB	C3D-C4D-ND	3.98	115.06	107.26
29	FE	203	PEB	C3D-C4D-ND	3.98	115.06	107.26
31	F7	1001	CYC	C4D-CHA-C1A	3.98	133.56	128.81
29	TR	203	PEB	C3D-C4D-ND	3.98	115.06	107.26
29	HC	203	PEB	C3D-C4D-ND	3.97	115.06	107.26
29	HE	203	PEB	C3D-C4D-ND	3.97	115.06	107.26
29	N2	201	PEB	C3D-C4D-ND	3.97	115.06	107.26
29	NR	203	PEB	C3D-C4D-ND	3.97	115.06	107.26
29	ZF	202	PEB	CHB-C4B-NB	-3.97	123.32	128.83
29	ZI	202	PEB	CHB-C4B-NB	-3.97	123.32	128.83
29	V2	203	PEB	CHB-C4B-NB	-3.97	123.32	128.83
29	LF	1002	PEB	CHC-C1D-ND	3.97	118.56	113.95
29	LI	1002	PEB	CHC-C1D-ND	3.97	118.56	113.95
29	N2	203	PEB	CHB-C4B-NB	-3.97	123.32	128.83
29	DA	203	PEB	CMB-C2B-C1B	3.97	131.17	125.06
29	DN	203	PEB	CMB-C2B-C1B	3.97	131.17	125.06
30	AM	305	PUB	CHA-C1B-C2B	-3.97	123.57	130.34
29	JF	1002	PEB	CHC-C1D-ND	3.97	118.55	113.95
29	JI	1002	PEB	CHC-C1D-ND	3.97	118.55	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	L7	1001	CYC	C4D-CHA-C1A	3.97	133.55	128.81
29	RB	203	PEB	OD-C4D-ND	-3.97	120.05	125.93
29	ZB	203	PEB	OD-C4D-ND	-3.97	120.05	125.93
29	RM	203	PEB	OD-C4D-ND	-3.97	120.05	125.93
29	ZM	203	PEB	OD-C4D-ND	-3.97	120.05	125.93
29	AM	301	PEB	C3D-C4D-ND	3.97	115.04	107.26
29	C8	203	PEB	CHC-C1D-ND	-3.97	109.34	113.95
29	X2	202	PEB	CHB-C4B-NB	-3.96	123.33	128.83
29	XR	203	PEB	CHB-C4B-NB	-3.96	123.33	128.83
29	mB	203	PEB	C4B-C3B-C2B	-3.96	102.39	106.78
29	mM	203	PEB	C4B-C3B-C2B	-3.96	102.39	106.78
29	PB	202	PEB	C4B-C3B-C2B	-3.96	102.40	106.78
29	PM	202	PEB	C4B-C3B-C2B	-3.96	102.40	106.78
29	AC	203	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	AE	203	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	VR	203	PEB	C3D-C4D-ND	3.96	115.03	107.26
29	J3	201	PEB	CHC-C1D-ND	-3.96	109.35	113.95
29	HF	1002	PEB	CHC-C1D-ND	3.96	118.55	113.95
29	HI	1002	PEB	CHC-C1D-ND	3.96	118.55	113.95
29	JO	201	PEB	CHC-C1D-ND	-3.96	109.35	113.95
29	T2	203	PEB	C3D-C4D-ND	3.96	115.03	107.26
29	V2	203	PEB	C3D-C4D-ND	3.96	115.03	107.26
29	BC	202	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	BE	202	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	aF	201	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	aI	201	PEB	OA-C1A-C2A	-3.96	123.02	126.17
29	MN	404	PEB	C1B-C2B-C3B	-3.96	101.96	106.51
29	DF	1002	PEB	CHC-C1D-ND	3.96	118.55	113.95
29	DI	1002	PEB	CHC-C1D-ND	3.96	118.55	113.95
29	V2	201	PEB	C3D-C4D-ND	3.96	115.03	107.26
29	BC	203	PEB	C3D-C4D-ND	3.96	115.03	107.26
29	BE	203	PEB	C3D-C4D-ND	3.96	115.03	107.26
31	F9	1001	CYC	C4D-CHA-C1A	3.96	133.54	128.81
30	AB	305	PUB	CHA-C1B-C2B	-3.96	123.58	130.34
29	HF	1002	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	VF	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	gF	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	HI	1002	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	VI	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	gI	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	VF	202	PEB	C4B-C3B-C2B	-3.96	102.40	106.78
29	VI	202	PEB	C4B-C3B-C2B	-3.96	102.40	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N2	203	PEB	C3D-C4D-ND	3.96	115.02	107.26
29	RR	201	PEB	C3D-C4D-ND	3.96	115.02	107.26
29	DC	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	LC	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	DE	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	LE	201	PEB	OA-C1A-C2A	-3.96	123.03	126.17
29	R2	203	PEB	CHB-C4B-NB	-3.96	123.34	128.83
29	NO	201	PEB	CHB-C4B-NB	-3.95	123.34	128.83
29	PR	202	PEB	CHB-C4B-NB	-3.95	123.34	128.83
29	PB	202	PEB	OD-C4D-ND	-3.95	120.07	125.93
29	PM	202	PEB	OD-C4D-ND	-3.95	120.07	125.93
29	gB	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	gM	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	P2	202	PEB	C3D-C4D-ND	3.95	115.01	107.26
29	XB	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	XM	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
31	L9	1001	CYC	C4D-CHA-C1A	3.95	133.53	128.81
29	FB	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	FM	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	EC	201	PEB	CHC-C1D-ND	-3.95	109.36	113.95
29	EE	201	PEB	CHC-C1D-ND	-3.95	109.36	113.95
29	VR	203	PEB	CHB-C4B-NB	-3.95	123.35	128.83
29	MA	405	PEB	OA-C1A-C2A	-3.95	123.03	126.17
29	E4	201	PEB	C3D-C4D-ND	3.95	115.01	107.26
29	TF	201	PEB	C3D-C4D-ND	3.95	115.01	107.26
29	A5	202	PEB	OA-C1A-C2A	-3.95	123.03	126.17
29	cF	201	PEB	OA-C1A-C2A	-3.95	123.03	126.17
29	cI	201	PEB	OA-C1A-C2A	-3.95	123.03	126.17
29	V7	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	V9	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	VB	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	iF	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	iI	202	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	VM	203	PEB	C4B-C3B-C2B	-3.95	102.41	106.78
29	FF	1002	PEB	CHC-C1D-ND	3.95	118.53	113.95
29	FI	1002	PEB	CHC-C1D-ND	3.95	118.53	113.95
29	iB	203	PEB	OD-C4D-ND	-3.95	120.08	125.93
29	iM	203	PEB	OD-C4D-ND	-3.95	120.08	125.93
29	c1	203	PEB	C3D-C4D-ND	3.95	115.00	107.26
29	cK	203	PEB	C3D-C4D-ND	3.95	115.00	107.26
29	AB	301	PEB	C3D-C4D-ND	3.95	115.00	107.26
31	sP	1001	CYC	CHA-C1A-NA	-3.95	123.35	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	e2	402	PEB	C3D-C4D-ND	3.95	115.00	107.26
29	dD	401	PEB	C3D-C4D-ND	3.95	115.00	107.26
29	RR	203	PEB	C3D-C4D-ND	3.95	115.00	107.26
29	a7	202	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	a9	202	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	DB	203	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	DM	203	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	IC	201	PEB	CHC-C1D-ND	-3.95	109.36	113.95
29	IE	201	PEB	CHC-C1D-ND	-3.95	109.36	113.95
29	IC	202	PEB	C1C-CHB-C4B	-3.95	124.10	128.81
29	IE	202	PEB	C1C-CHB-C4B	-3.95	124.10	128.81
29	H7	1002	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	H9	1002	PEB	C4B-C3B-C2B	-3.95	102.42	106.78
29	J7	1002	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
31	N7	1001	CYC	C4D-CHA-C1A	3.94	133.52	128.81
31	N9	1001	CYC	C4D-CHA-C1A	3.94	133.52	128.81
29	P7	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	P9	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	UJ	201	PEB	CHB-C4B-C3B	-3.94	116.21	125.32
29	UL	201	PEB	CHB-C4B-C3B	-3.94	116.21	125.32
29	EC	202	PEB	C1C-CHB-C4B	-3.94	124.10	128.81
29	EE	202	PEB	C1C-CHB-C4B	-3.94	124.10	128.81
29	D3	201	PEB	CHC-C1D-ND	-3.94	109.37	113.95
29	DO	201	PEB	CHC-C1D-ND	-3.94	109.37	113.95
29	TF	202	PEB	CHC-C4C-C3C	-3.94	123.61	130.34
29	TI	202	PEB	CHC-C4C-C3C	-3.94	123.61	130.34
29	YF	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	YI	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	LA	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	LN	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	OF	203	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	OI	203	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	JB	203	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	JM	203	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	I4	201	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	NR	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	X2	202	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	FA	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	ID	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	FN	201	PEB	C3D-C4D-ND	3.94	114.99	107.26
29	g7	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	g9	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	CK	1001	CYC	C1B-C2B-C3B	-3.94	103.76	107.87
29	YF	201	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	YI	201	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	TJ	202	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	TL	202	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	aF	203	PEB	CHC-C4C-C3C	-3.94	123.62	130.34
29	aI	203	PEB	CHC-C4C-C3C	-3.94	123.62	130.34
29	iB	203	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	iM	203	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	PF	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	PI	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	HC	202	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	HE	202	PEB	OA-C1A-C2A	-3.94	123.04	126.17
29	MQ	403	PEB	OA-C1A-C2A	-3.94	123.04	126.17
31	uP	1001	CYC	CHA-C1A-NA	-3.94	123.36	128.83
29	eF	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	eI	202	PEB	C4B-C3B-C2B	-3.94	102.42	106.78
29	GC	201	PEB	CHC-C1D-ND	-3.94	109.38	113.95
29	GE	201	PEB	CHC-C1D-ND	-3.94	109.38	113.95
29	W2	201	PEB	CMB-C2B-C1B	3.94	131.13	125.06
29	uJ	202	PEB	CHB-C4B-C3B	-3.94	116.23	125.32
29	uL	202	PEB	CHB-C4B-C3B	-3.94	116.23	125.32
29	BA	201	PEB	C3D-C4D-ND	3.94	114.98	107.26
29	BN	201	PEB	C3D-C4D-ND	3.94	114.98	107.26
29	CC	202	PEB	C1C-CHB-C4B	-3.94	124.11	128.81
29	CE	202	PEB	C1C-CHB-C4B	-3.94	124.11	128.81
29	eF	203	PEB	CHC-C4C-C3C	-3.94	123.62	130.34
29	eI	203	PEB	CHC-C4C-C3C	-3.94	123.62	130.34
29	R2	201	PEB	C3D-C4D-ND	3.94	114.98	107.26
29	T7	202	PEB	C4B-C3B-C2B	-3.94	102.43	106.78
29	T9	202	PEB	C4B-C3B-C2B	-3.94	102.43	106.78
29	SR	202	PEB	CHC-C4C-C3C	-3.93	123.63	130.34
29	SJ	201	PEB	CHB-C4B-C3B	-3.93	116.23	125.32
29	SL	201	PEB	CHB-C4B-C3B	-3.93	116.23	125.32
29	A7	301	PEB	C3D-C4D-ND	3.93	114.98	107.26
29	A9	301	PEB	C3D-C4D-ND	3.93	114.98	107.26
29	R7	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	c7	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	R9	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	c9	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	kB	203	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	kM	203	PEB	C4B-C3B-C2B	-3.93	102.43	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bJ	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	bL	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	TR	201	PEB	C3D-C4D-ND	3.93	114.98	107.26
29	m7	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	m9	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	VB	203	PEB	OD-C4D-ND	-3.93	120.10	125.93
29	eB	202	PEB	OD-C4D-ND	-3.93	120.10	125.93
29	VM	203	PEB	OD-C4D-ND	-3.93	120.10	125.93
29	eM	202	PEB	OD-C4D-ND	-3.93	120.10	125.93
29	VF	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	VI	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	XR	201	PEB	C3D-C4D-ND	3.93	114.97	107.26
29	MJ	201	PEB	CHB-C4B-C3B	-3.93	116.23	125.32
29	ML	201	PEB	CHB-C4B-C3B	-3.93	116.23	125.32
29	N3	201	PEB	CHB-C4B-NB	-3.93	123.37	128.83
29	N7	1002	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	N9	1002	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	cB	203	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	dF	201	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	mF	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	dI	201	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	mI	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	cM	203	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	OJ	201	PEB	CHB-C4B-C3B	-3.93	116.24	125.32
29	OL	201	PEB	CHB-C4B-C3B	-3.93	116.24	125.32
31	FP	1001	CYC	CHA-C1A-NA	-3.93	123.37	128.83
29	kF	201	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	kI	201	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	KC	203	PEB	C1C-CHB-C4B	-3.93	124.11	128.81
29	KE	203	PEB	C1C-CHB-C4B	-3.93	124.11	128.81
31	wP	1001	CYC	CHA-C1A-NA	-3.93	123.37	128.83
29	R2	203	PEB	C3D-C4D-ND	3.93	114.97	107.26
29	kF	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	kI	202	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	GC	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	GE	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	eF	201	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	TI	201	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	eI	201	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	P2	202	PEB	CHB-C4B-NB	-3.93	123.38	128.83
29	L5	201	PEB	C3D-C4D-ND	3.93	114.97	107.26
29	M3	202	PEB	C2A-C1A-NA	3.93	111.66	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MO	202	PEB	C2A-C1A-NA	3.93	111.66	108.27
31	SP	1001	CYC	CHA-C1A-NA	-3.93	123.38	128.83
29	J9	1002	PEB	C4B-C3B-C2B	-3.93	102.43	106.78
29	XR	203	PEB	C3D-C4D-ND	3.93	114.97	107.26
29	B3	201	PEB	CHC-C1D-ND	-3.93	109.39	113.95
29	KC	202	PEB	CHC-C1D-ND	-3.93	109.39	113.95
29	KE	202	PEB	CHC-C1D-ND	-3.93	109.39	113.95
29	BO	201	PEB	CHC-C1D-ND	-3.93	109.39	113.95
29	GA	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	GN	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	qJ	201	PEB	CHB-C4B-C3B	-3.93	116.25	125.32
29	qL	201	PEB	CHB-C4B-C3B	-3.93	116.25	125.32
29	YF	203	PEB	CHC-C4C-C3C	-3.93	123.64	130.34
29	YI	203	PEB	CHC-C4C-C3C	-3.93	123.64	130.34
29	JA	201	PEB	C3D-C4D-ND	3.93	114.96	107.26
29	JN	201	PEB	C3D-C4D-ND	3.93	114.96	107.26
29	L7	1002	PEB	C4B-C3B-C2B	-3.93	102.44	106.78
29	hJ	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	hL	202	PEB	OA-C1A-C2A	-3.93	123.05	126.17
29	JB	203	PEB	OD-C4D-ND	-3.93	120.11	125.93
29	LB	203	PEB	OD-C4D-ND	-3.93	120.11	125.93
29	JM	203	PEB	OD-C4D-ND	-3.93	120.11	125.93
29	LM	203	PEB	OD-C4D-ND	-3.93	120.11	125.93
31	OP	1001	CYC	CHA-C1A-NA	-3.93	123.38	128.83
29	AF	304	PEB	CHC-C4C-C3C	-3.93	123.64	130.34
29	AI	304	PEB	CHC-C4C-C3C	-3.93	123.64	130.34
31	XP	1001	CYC	CHA-C1A-NA	-3.93	123.38	128.83
29	D7	1002	PEB	C4B-C3B-C2B	-3.93	102.44	106.78
29	D9	1002	PEB	C4B-C3B-C2B	-3.93	102.44	106.78
29	KJ	201	PEB	CHB-C4B-C3B	-3.92	116.25	125.32
29	KL	201	PEB	CHB-C4B-C3B	-3.92	116.25	125.32
29	TB	203	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	aF	202	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	aI	202	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	TM	203	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
31	IK	1001	CYC	C1B-C2B-C3B	-3.92	103.78	107.87
29	T2	201	PEB	C3D-C4D-ND	3.92	114.96	107.26
29	H5	201	PEB	C3D-C4D-ND	3.92	114.96	107.26
29	HA	201	PEB	C3D-C4D-ND	3.92	114.96	107.26
29	HN	201	PEB	C3D-C4D-ND	3.92	114.96	107.26
29	cJ	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	cL	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gF	202	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	gI	202	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	cB	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	cM	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	DA	201	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	DN	201	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	PR	202	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	HB	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	HM	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	k1	203	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	kK	203	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	SR	201	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	EJ	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	EL	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	R1	203	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	RK	203	PEB	C3D-C4D-ND	3.92	114.95	107.26
31	oP	1001	CYC	CHA-C1A-NA	-3.92	123.39	128.83
29	ZB	203	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	ZM	203	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	sJ	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	sL	201	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	M3	201	PEB	CHB-C4B-NB	-3.92	123.39	128.83
29	MO	201	PEB	CHB-C4B-NB	-3.92	123.39	128.83
29	I5	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
29	I8	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
30	A7	302	PUB	CMA-C2A-C1A	3.92	130.61	121.39
30	A9	302	PUB	CMA-C2A-C1A	3.92	130.61	121.39
29	WJ	202	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	WL	202	PEB	CHB-C4B-C3B	-3.92	116.26	125.32
29	dD	401	PEB	C4B-C3B-C2B	-3.92	102.44	106.78
29	AJ	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
29	oJ	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
29	AL	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
29	oL	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
31	QP	1001	CYC	CHA-C1A-NA	-3.92	123.39	128.83
29	Y1	202	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	YK	202	PEB	C3D-C4D-ND	3.92	114.95	107.26
31	C1	1001	CYC	C1B-C2B-C3B	-3.92	103.78	107.87
29	kB	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	kM	203	PEB	OD-C4D-ND	-3.92	120.12	125.93
29	yJ	301	PEB	C3D-C4D-ND	3.92	114.95	107.26
29	yL	301	PEB	C3D-C4D-ND	3.92	114.95	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NR	201	PEB	C2A-C1A-NA	3.92	111.65	108.27
29	IJ	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
29	IL	201	PEB	CHB-C4B-C3B	-3.92	116.27	125.32
29	L3	201	PEB	CHC-C1D-ND	-3.92	109.40	113.95
29	LO	201	PEB	CHC-C1D-ND	-3.92	109.40	113.95
31	DP	1001	CYC	CHA-C1A-NA	-3.92	123.39	128.83
29	H8	201	PEB	C3D-C4D-ND	3.92	114.94	107.26
29	HC	203	PEB	CHB-C4B-NB	-3.92	123.39	128.83
29	HE	203	PEB	CHB-C4B-NB	-3.92	123.39	128.83
29	H3	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
29	FJ	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
29	FL	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
29	HO	202	PEB	OA-C1A-C2A	-3.92	123.06	126.17
29	L8	201	PEB	C3D-C4D-ND	3.92	114.94	107.26
29	eB	202	PEB	C4B-C3B-C2B	-3.92	102.45	106.78
29	UF	201	PEB	C4B-C3B-C2B	-3.92	102.45	106.78
29	UI	201	PEB	C4B-C3B-C2B	-3.92	102.45	106.78
29	eM	202	PEB	C4B-C3B-C2B	-3.92	102.45	106.78
29	e1	203	PEB	C3D-C4D-ND	3.92	114.94	107.26
29	eK	203	PEB	C3D-C4D-ND	3.92	114.94	107.26
29	GC	202	PEB	C1C-CHB-C4B	-3.92	124.13	128.81
29	GE	202	PEB	C1C-CHB-C4B	-3.92	124.13	128.81
29	I4	201	PEB	C3D-C4D-ND	3.91	114.94	107.26
31	nP	1001	CYC	CHA-C1A-NA	-3.91	123.40	128.83
29	wJ	303	PEB	C1C-CHB-C4B	-3.91	124.13	128.81
29	i7	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	L9	1002	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	i9	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	DB	203	PEB	OD-C4D-ND	-3.91	120.13	125.93
29	XB	202	PEB	OD-C4D-ND	-3.91	120.13	125.93
29	DM	203	PEB	OD-C4D-ND	-3.91	120.13	125.93
29	XM	202	PEB	OD-C4D-ND	-3.91	120.13	125.93
29	PF	201	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	PI	201	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	TB	203	PEB	OD-C4D-ND	-3.91	120.13	125.93
29	TM	203	PEB	OD-C4D-ND	-3.91	120.13	125.93
31	WP	1001	CYC	CHB-C4A-C3A	3.91	134.96	124.90
29	e7	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	e9	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	cF	202	PEB	CHC-C4C-C3C	-3.91	123.66	130.34
29	cI	202	PEB	CHC-C4C-C3C	-3.91	123.66	130.34
29	WR	201	PEB	CMB-C2B-C1B	3.91	131.09	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BC	203	PEB	CHB-C4B-NB	-3.91	123.40	128.83
29	BE	203	PEB	CHB-C4B-NB	-3.91	123.40	128.83
29	RB	203	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	RM	203	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	CJ	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	GJ	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	CL	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	GL	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	KD	201	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	YJ	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	YL	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	YF	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	YI	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	PJ	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	PL	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	zL	501	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	NB	202	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	NM	202	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	gJ	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	gL	201	PEB	CHB-C4B-C3B	-3.91	116.28	125.32
29	OR	202	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	mF	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
29	mI	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
31	yP	1001	CYC	CHB-C4A-C3A	3.91	134.96	124.90
29	eF	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	eI	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	Y7	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	Y9	202	PEB	C4B-C3B-C2B	-3.91	102.45	106.78
29	F5	201	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	F8	201	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	kJ	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
29	kL	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
29	kF	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
29	kI	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
29	E4	201	PEB	C4B-C3B-C2B	-3.91	102.46	106.78
31	M7	1001	CYC	CHB-C4A-NA	-3.91	116.76	124.93
29	J3	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	JO	202	PEB	OA-C1A-C2A	-3.91	123.06	126.17
29	V1	202	PEB	C3B-C4B-NB	3.91	115.73	110.05
29	VK	202	PEB	C3B-C4B-NB	3.91	115.73	110.05
31	K1	1001	CYC	C1B-C2B-C3B	-3.91	103.79	107.87
31	KK	1001	CYC	C1B-C2B-C3B	-3.91	103.79	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K4	201	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	HB	203	PEB	CMB-C2B-C1B	3.91	131.08	125.06
29	HM	203	PEB	CMB-C2B-C1B	3.91	131.08	125.06
29	T1	202	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	g1	203	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	TK	202	PEB	C3D-C4D-ND	3.91	114.93	107.26
29	gK	203	PEB	C3D-C4D-ND	3.91	114.93	107.26
31	K7	1001	CYC	CHB-C4A-NA	-3.91	116.76	124.93
29	jJ	202	PEB	OA-C1A-C2A	-3.91	123.07	126.17
29	jL	202	PEB	OA-C1A-C2A	-3.91	123.07	126.17
29	mB	203	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	mM	203	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	i1	202	PEB	C3B-C4B-NB	3.91	115.73	110.05
29	iK	202	PEB	C3B-C4B-NB	3.91	115.73	110.05
29	eJ	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
29	iJ	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
29	eL	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
29	iL	201	PEB	CHB-C4B-C3B	-3.91	116.29	125.32
31	I7	1001	CYC	CHB-C4A-NA	-3.91	116.76	124.93
31	I9	1001	CYC	CHB-C4A-NA	-3.91	116.76	124.93
29	AC	202	PEB	C1C-CHB-C4B	-3.91	124.14	128.81
29	AE	202	PEB	C1C-CHB-C4B	-3.91	124.14	128.81
29	iF	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
29	iI	203	PEB	CHC-C4C-C3C	-3.91	123.67	130.34
29	I5	203	PEB	C3D-C4D-ND	3.91	114.92	107.26
29	I8	203	PEB	C3D-C4D-ND	3.91	114.92	107.26
29	zJ	501	PEB	C3D-C4D-ND	3.91	114.92	107.26
29	gB	203	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	gM	203	PEB	OD-C4D-ND	-3.91	120.14	125.93
29	LC	203	PEB	CHB-C4B-NB	-3.91	123.41	128.83
29	LE	203	PEB	CHB-C4B-NB	-3.91	123.41	128.83
31	I1	1001	CYC	C1B-C2B-C3B	-3.90	103.80	107.87
29	mJ	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
29	mL	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
30	MQ	404	PUB	CAB-C3B-C2B	3.90	138.47	127.25
29	C4	201	PEB	C4B-C3B-C2B	-3.90	102.46	106.78
29	MD	201	PEB	C4B-C3B-C2B	-3.90	102.46	106.78
29	aJ	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
29	aL	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
29	K5	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	K8	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	AC	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AE	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	RJ	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	RL	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	F9	1002	PEB	C4B-C3B-C2B	-3.90	102.46	106.78
29	QJ	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
29	QL	201	PEB	CHB-C4B-C3B	-3.90	116.30	125.32
31	qP	1001	CYC	CHA-C1A-NA	-3.90	123.41	128.83
31	G9	1001	CYC	CHB-C4A-NA	-3.90	116.77	124.93
29	TB	203	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	TM	203	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	a1	203	PEB	C3D-C4D-ND	3.90	114.92	107.26
29	G5	201	PEB	C3D-C4D-ND	3.90	114.92	107.26
29	aK	203	PEB	C3D-C4D-ND	3.90	114.92	107.26
29	IJ	203	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	IL	203	PEB	OA-C1A-C2A	-3.90	123.07	126.17
31	hP	1001	CYC	CHA-C1A-NA	-3.90	123.41	128.83
29	U2	201	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	gF	203	PEB	CHC-C4C-C3C	-3.90	123.68	130.34
29	gI	203	PEB	CHC-C4C-C3C	-3.90	123.68	130.34
29	NO	202	PEB	C2A-C1A-NA	3.90	111.64	108.27
29	B5	201	PEB	C3D-C4D-ND	3.90	114.91	107.26
29	BJ	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	sJ	203	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	BL	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	sL	203	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	C5	203	PEB	C3D-C4D-ND	3.90	114.91	107.26
29	C8	203	PEB	C3D-C4D-ND	3.90	114.91	107.26
29	JC	202	PEB	CHB-C4B-NB	-3.90	123.42	128.83
29	JE	202	PEB	CHB-C4B-NB	-3.90	123.42	128.83
29	F1	1002	PEB	C4B-C3B-C2B	-3.90	102.47	106.78
29	J1	1002	PEB	C4B-C3B-C2B	-3.90	102.47	106.78
29	FK	1002	PEB	C4B-C3B-C2B	-3.90	102.47	106.78
29	JK	1002	PEB	C4B-C3B-C2B	-3.90	102.47	106.78
29	g1	202	PEB	C3B-C4B-NB	3.90	115.72	110.05
29	gK	202	PEB	C3B-C4B-NB	3.90	115.72	110.05
31	C7	1001	CYC	CHB-C4A-NA	-3.90	116.78	124.93
31	C9	1001	CYC	CHB-C4A-NA	-3.90	116.78	124.93
31	jP	1001	CYC	CHA-C1A-NA	-3.90	123.42	128.83
29	RF	202	PEB	CHC-C4C-C3C	-3.90	123.69	130.34
29	RI	202	PEB	CHC-C4C-C3C	-3.90	123.69	130.34
29	M2	201	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	XB	202	PEB	CMB-C2B-C1B	3.90	131.07	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	XM	202	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	QR	201	PEB	CMB-C2B-C1B	3.90	131.07	125.06
29	G8	201	PEB	C3D-C4D-ND	3.90	114.91	107.26
31	GK	1001	CYC	C1B-C2B-C3B	-3.90	103.80	107.87
29	B8	201	PEB	C3D-C4D-ND	3.90	114.91	107.26
31	IP	1001	CYC	CHA-C1A-NA	-3.90	123.42	128.83
31	MP	1001	CYC	CHA-C1A-NA	-3.90	123.42	128.83
29	B3	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	HJ	201	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	HL	201	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	BO	202	PEB	OA-C1A-C2A	-3.90	123.07	126.17
29	FB	203	PEB	OD-C4D-ND	-3.90	120.16	125.93
29	FM	203	PEB	OD-C4D-ND	-3.90	120.16	125.93
29	PF	203	PEB	CHC-C4C-C3C	-3.90	123.69	130.34
29	PI	203	PEB	CHC-C4C-C3C	-3.90	123.69	130.34
29	CD	201	PEB	C3D-C4D-ND	3.90	114.91	107.26
29	S2	201	PEB	C3D-C4D-ND	3.90	114.90	107.26
29	AA	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	BC	201	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	BE	201	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	AN	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	OR	201	PEB	CMB-C2B-C1B	3.90	131.06	125.06
29	F3	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	IA	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	IN	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
29	FO	202	PEB	OA-C1A-C2A	-3.90	123.08	126.17
31	BP	1001	CYC	CHA-C1A-NA	-3.89	123.42	128.83
29	VF	203	PEB	CHC-C4C-C3C	-3.89	123.69	130.34
29	VI	203	PEB	CHC-C4C-C3C	-3.89	123.69	130.34
29	RB	203	PEB	CMB-C2B-C1B	3.89	131.06	125.06
29	RM	203	PEB	CMB-C2B-C1B	3.89	131.06	125.06
29	B5	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	HC	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	HE	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
31	fP	1001	CYC	CHA-C1A-NA	-3.89	123.43	128.83
29	C4	201	PEB	C3D-C4D-ND	3.89	114.90	107.26
31	E7	1001	CYC	CHB-C4A-NA	-3.89	116.79	124.93
31	E9	1001	CYC	CHB-C4A-NA	-3.89	116.79	124.93
29	U1	201	PEB	C3B-C4B-NB	3.89	115.71	110.05
29	UK	201	PEB	C3B-C4B-NB	3.89	115.71	110.05
31	kP	1001	CYC	CHA-C1A-NA	-3.89	123.43	128.83
29	V1	203	PEB	C3D-C4D-ND	3.89	114.90	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F3	201	PEB	C3D-C4D-ND	3.89	114.90	107.26
29	VK	203	PEB	C3D-C4D-ND	3.89	114.90	107.26
29	FO	201	PEB	C3D-C4D-ND	3.89	114.90	107.26
31	D1	1003	CYC	C1B-C2B-C3B	-3.89	103.81	107.87
29	RF	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	RI	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	P1	203	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	i1	203	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	m1	202	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	A9	304	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	PK	203	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	iK	203	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	mK	202	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	LB	203	PEB	CMB-C2B-C1B	3.89	131.06	125.06
29	LM	203	PEB	CMB-C2B-C1B	3.89	131.06	125.06
29	P1	202	PEB	C3B-C4B-NB	3.89	115.71	110.05
29	PK	202	PEB	C3B-C4B-NB	3.89	115.71	110.05
29	aF	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	mF	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	aI	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	mI	201	PEB	OA-C1A-C2A	-3.89	123.08	126.17
31	G7	1001	CYC	CHB-C4A-NA	-3.89	116.80	124.93
31	M9	1001	CYC	CHB-C4A-NA	-3.89	116.80	124.93
31	EK	1001	CYC	C1B-C2B-C3B	-3.89	103.81	107.87
29	a1	202	PEB	C3B-C4B-NB	3.89	115.71	110.05
29	aK	202	PEB	C3B-C4B-NB	3.89	115.71	110.05
30	MG	402	PUB	CAB-C3B-C2B	3.89	138.42	127.25
31	K9	1001	CYC	CHB-C4A-NA	-3.89	116.80	124.93
29	fJ	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	fL	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	I4	201	PEB	CHC-C4C-C3C	-3.89	123.70	130.34
29	mJ	201	PEB	C1C-CHB-C4B	3.89	133.45	128.81
29	mL	201	PEB	C1C-CHB-C4B	3.89	133.45	128.81
29	NJ	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	NL	202	PEB	OA-C1A-C2A	-3.89	123.08	126.17
29	Z1	201	PEB	C3B-C4B-NB	3.89	115.70	110.05
29	ZK	201	PEB	C3B-C4B-NB	3.89	115.70	110.05
29	N2	201	PEB	C2A-C1A-NA	3.89	111.62	108.27
29	G4	201	PEB	C3D-C4D-ND	3.89	114.89	107.26
29	eB	202	PEB	CMB-C2B-C1B	3.89	131.05	125.06
29	eM	202	PEB	CMB-C2B-C1B	3.89	131.05	125.06
29	dD	401	PEB	CHC-C4C-C3C	-3.89	123.71	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N3	202	PEB	C2A-C1A-NA	3.89	111.62	108.27
29	FB	203	PEB	CMB-C2B-C1B	3.89	131.05	125.06
29	FM	203	PEB	CMB-C2B-C1B	3.89	131.05	125.06
29	F7	1002	PEB	C4B-C3B-C2B	-3.89	102.48	106.78
29	wL	303	PEB	C1C-CHB-C4B	-3.89	124.17	128.81
29	ID	201	PEB	CHC-C4C-C3C	-3.88	123.71	130.34
29	GD	201	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	AF	305	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	AI	305	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	ZB	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	cB	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	ZM	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	cM	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	K5	203	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	K8	203	PEB	C3D-C4D-ND	3.88	114.88	107.26
31	1P	1001	CYC	CHA-C1A-NA	-3.88	123.44	128.83
29	MD	201	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	kB	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	kM	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
31	E1	1001	CYC	C1B-C2B-C3B	-3.88	103.82	107.87
29	A5	203	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	AM	302	PEB	C3D-C4D-ND	3.88	114.88	107.26
29	iB	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	iM	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	KA	202	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	KN	202	PEB	OA-C1A-C2A	-3.88	123.09	126.17
31	UP	1001	CYC	CHA-C1A-NA	-3.88	123.44	128.83
29	e1	202	PEB	C3B-C4B-NB	3.88	115.70	110.05
29	eK	202	PEB	C3B-C4B-NB	3.88	115.70	110.05
29	PB	202	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	PM	202	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	NO	202	PEB	C3D-C4D-ND	3.88	114.87	107.26
29	ID	201	PEB	C4B-C3B-C2B	-3.88	102.49	106.78
29	HK	1002	PEB	C4B-C3B-C2B	-3.88	102.49	106.78
29	Q2	201	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	MD	201	PEB	CHC-C4C-C3C	-3.88	123.72	130.34
29	R2	201	PEB	C2A-C1A-NA	3.88	111.62	108.27
29	T2	201	PEB	C2A-C1A-NA	3.88	111.62	108.27
29	QJ	201	PEB	C1C-CHB-C4B	3.88	133.44	128.81
29	QL	201	PEB	C1C-CHB-C4B	3.88	133.44	128.81
29	j1	203	PEB	C3B-C4B-NB	3.88	115.69	110.05
29	jK	203	PEB	C3B-C4B-NB	3.88	115.69	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UR	201	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	J3	201	PEB	C3D-C4D-ND	3.88	114.87	107.26
29	JO	201	PEB	C3D-C4D-ND	3.88	114.87	107.26
29	M4	201	PEB	C4B-C3B-C2B	-3.88	102.49	106.78
29	dF	201	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	iF	202	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	dI	201	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	iI	202	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	L9	1002	PEB	C3D-C4D-ND	3.88	114.87	107.26
29	MR	202	PEB	C3D-C4D-ND	3.88	114.87	107.26
29	JB	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	JM	203	PEB	CMB-C2B-C1B	3.88	131.04	125.06
29	HC	202	PEB	CHC-C1D-ND	-3.88	109.44	113.95
29	HE	202	PEB	CHC-C1D-ND	-3.88	109.44	113.95
29	c1	202	PEB	C3B-C4B-NB	3.88	115.69	110.05
29	cK	202	PEB	C3B-C4B-NB	3.88	115.69	110.05
29	O2	201	PEB	CMB-C2B-C1B	3.88	131.03	125.06
31	M1	1001	CYC	C1B-C2B-C3B	-3.88	103.83	107.87
31	MK	1001	CYC	C1B-C2B-C3B	-3.88	103.83	107.87
31	HP	1001	CYC	CHA-C1A-NA	-3.88	123.45	128.83
29	F5	201	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	H5	201	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	F8	201	PEB	OA-C1A-C2A	-3.88	123.09	126.17
29	dJ	202	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	dL	202	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	VB	203	PEB	CMB-C2B-C1B	3.87	131.03	125.06
29	VM	203	PEB	CMB-C2B-C1B	3.87	131.03	125.06
29	A1	303	PEB	C3D-C4D-ND	3.87	114.86	107.26
29	AK	303	PEB	C3D-C4D-ND	3.87	114.86	107.26
29	M3	201	PEB	C3D-C4D-ND	3.87	114.86	107.26
29	MO	201	PEB	C3D-C4D-ND	3.87	114.86	107.26
29	yJ	301	PEB	CMB-C2B-C1B	3.87	131.03	125.06
29	yL	301	PEB	CMB-C2B-C1B	3.87	131.03	125.06
29	FC	203	PEB	CHB-C4B-NB	-3.87	123.45	128.83
29	FE	203	PEB	CHB-C4B-NB	-3.87	123.45	128.83
29	N3	202	PEB	C3D-C4D-ND	3.87	114.86	107.26
29	UF	201	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	UI	201	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	MR	201	PEB	CMB-C2B-C1B	3.87	131.03	125.06
30	wL	304	PUB	C1C-C2C-C3C	-3.87	102.50	106.78
29	I3	203	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	EA	202	PEB	OA-C1A-C2A	-3.87	123.09	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	uJ	201	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	uL	201	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	EN	202	PEB	OA-C1A-C2A	-3.87	123.09	126.17
29	IO	203	PEB	OA-C1A-C2A	-3.87	123.09	126.17
30	xL	304	PUB	CMA-C2A-C1A	3.87	130.50	121.39
29	GD	201	PEB	CHC-C4C-C3C	-3.87	123.73	130.34
29	K4	201	PEB	CHC-C4C-C3C	-3.87	123.74	130.34
29	CC	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	CE	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	lJ	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	rJ	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	lL	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	rL	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	L1	1002	PEB	C4B-C3B-C2B	-3.87	102.50	106.78
29	LK	1002	PEB	C4B-C3B-C2B	-3.87	102.50	106.78
29	DC	202	PEB	CHB-C4B-NB	-3.87	123.46	128.83
29	DE	202	PEB	CHB-C4B-NB	-3.87	123.46	128.83
29	L8	202	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	CA	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	CN	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	E4	201	PEB	CMB-C2B-C1B	3.87	131.02	125.06
29	dD	401	PEB	CMB-C2B-C1B	3.87	131.02	125.06
29	T1	202	PEB	CHC-C1D-ND	-3.87	109.46	113.95
29	TK	202	PEB	CHC-C1D-ND	-3.87	109.46	113.95
29	eJ	201	PEB	C1C-CHB-C4B	3.87	133.43	128.81
29	eL	201	PEB	C1C-CHB-C4B	3.87	133.43	128.81
29	M3	202	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	N3	201	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	kJ	201	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	kL	201	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	MO	202	PEB	C3D-C4D-ND	3.87	114.85	107.26
29	A8	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	OB	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	OM	202	PEB	OA-C1A-C2A	-3.87	123.10	126.17
29	A7	304	PEB	C3D-C4D-ND	3.87	114.84	107.26
29	M4	201	PEB	C3D-C4D-ND	3.87	114.84	107.26
29	AB	302	PEB	C3D-C4D-ND	3.87	114.84	107.26
29	NB	202	PEB	CMB-C2B-C1B	3.87	131.02	125.06
29	NM	202	PEB	CMB-C2B-C1B	3.87	131.02	125.06
29	FC	202	PEB	CHC-C1D-ND	-3.87	109.46	113.95
29	FE	202	PEB	CHC-C1D-ND	-3.87	109.46	113.95
29	oJ	201	PEB	C1C-CHB-C4B	3.86	133.43	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	sJ	201	PEB	C1C-CHB-C4B	3.86	133.43	128.81
29	oL	201	PEB	C1C-CHB-C4B	3.86	133.43	128.81
29	sL	201	PEB	C1C-CHB-C4B	3.86	133.43	128.81
29	A8	203	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	pJ	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	pL	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	M4	201	PEB	CHC-C4C-C3C	-3.86	123.75	130.34
29	KJ	201	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	KL	201	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	D1	1002	PEB	C2A-C1A-NA	3.86	111.60	108.27
29	A1	302	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	AK	302	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	wL	302	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	gB	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	gM	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	DB	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	mB	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	DM	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	mM	203	PEB	CMB-C2B-C1B	3.86	131.01	125.06
30	wL	304	PUB	CMA-C2A-C1A	3.86	130.48	121.39
29	KC	202	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	KE	202	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	C4	201	PEB	CHC-C4C-C3C	-3.86	123.75	130.34
29	XJ	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	XL	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	D3	201	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	DO	201	PEB	C3D-C4D-ND	3.86	114.84	107.26
29	MG	401	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	NO	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	ID	201	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	IC	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	IE	202	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	WJ	201	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	WL	201	PEB	OA-C1A-C2A	-3.86	123.10	126.17
29	C8	201	PEB	CMB-C2B-C1B	3.86	131.01	125.06
29	QJ	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	wJ	302	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	QL	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	RR	201	PEB	C2A-C1A-NA	3.86	111.60	108.27
29	NK	1002	PEB	C4B-C3B-C2B	-3.86	102.51	106.78
29	R1	202	PEB	C3B-C4B-NB	3.86	115.66	110.05
29	RK	202	PEB	C3B-C4B-NB	3.86	115.66	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KJ	201	PEB	C1C-CHB-C4B	3.86	133.42	128.81
29	WJ	202	PEB	C1C-CHB-C4B	3.86	133.42	128.81
29	KL	201	PEB	C1C-CHB-C4B	3.86	133.42	128.81
29	WL	202	PEB	C1C-CHB-C4B	3.86	133.42	128.81
29	N7	1002	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	N9	1002	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	E4	201	PEB	CHC-C4C-C3C	-3.86	123.76	130.34
29	I4	203	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	GJ	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	GL	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	gJ	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	gL	201	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	J9	1002	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	cJ	201	PEB	C1C-CHB-C4B	3.86	133.42	128.81
29	cL	201	PEB	C1C-CHB-C4B	3.86	133.42	128.81
30	AF	303	PUB	C1C-C2C-C3C	-3.86	102.51	106.78
30	AI	303	PUB	C1C-C2C-C3C	-3.86	102.51	106.78
29	BC	202	PEB	CHC-C1D-ND	-3.86	109.47	113.95
29	BE	202	PEB	CHC-C1D-ND	-3.86	109.47	113.95
29	L7	1002	PEB	C3D-C4D-ND	3.86	114.83	107.26
29	IJ	201	PEB	C1C-CHB-C4B	3.86	133.41	128.81
29	IL	201	PEB	C1C-CHB-C4B	3.86	133.41	128.81
29	B3	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	BO	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	CD	201	PEB	C4B-C3B-C2B	-3.86	102.52	106.78
30	wJ	304	PUB	C1C-C2C-C3C	-3.86	102.52	106.78
29	IC	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	IE	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	AJ	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	AL	201	PEB	C3D-C4D-ND	3.86	114.82	107.26
29	k1	202	PEB	C3B-C4B-NB	3.86	115.66	110.05
29	kK	202	PEB	C3B-C4B-NB	3.86	115.66	110.05
30	wJ	304	PUB	CMA-C2A-C1A	3.85	130.46	121.39
29	G5	201	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	B8	201	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	nJ	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	nL	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	H1	1002	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	k1	201	PEB	CHC-C4C-C3C	-3.85	123.76	130.34
29	kK	201	PEB	CHC-C4C-C3C	-3.85	123.76	130.34
29	gJ	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	gL	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KD	201	PEB	CHC-C4C-C3C	-3.85	123.76	130.34
29	N1	1002	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	H3	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	HO	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	MJ	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	ML	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	MQ	403	PEB	CHC-C4C-C3C	-3.85	123.77	130.34
30	xJ	304	PUB	CMA-C2A-C1A	3.85	130.45	121.39
29	m7	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	m9	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	CD	201	PEB	CHC-C4C-C3C	-3.85	123.77	130.34
29	CC	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	GC	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	CE	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	GE	201	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	A8	201	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	DO	202	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	GA	202	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	GN	202	PEB	C3D-C4D-ND	3.85	114.82	107.26
29	A5	201	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	PF	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	PI	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	GJ	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	GL	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	F7	1002	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	G8	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	CJ	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	CL	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	Y1	202	PEB	CHC-C1D-ND	-3.85	109.48	113.95
29	LC	202	PEB	CHC-C1D-ND	-3.85	109.48	113.95
29	LE	202	PEB	CHC-C1D-ND	-3.85	109.48	113.95
29	YK	202	PEB	CHC-C1D-ND	-3.85	109.48	113.95
29	DJ	201	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	DL	201	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	kJ	202	PEB	CHA-C1B-NB	-3.85	116.88	124.93
29	kL	202	PEB	CHA-C1B-NB	-3.85	116.88	124.93
29	G5	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	CA	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	CN	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
30	A7	302	PUB	C1C-C2C-C3C	-3.85	102.52	106.78
30	A9	302	PUB	C1C-C2C-C3C	-3.85	102.52	106.78
29	G4	201	PEB	CHC-C4C-C3C	-3.85	123.77	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J7	1002	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	e7	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	e9	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	xL	302	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	AJ	203	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	AL	203	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	tJ	201	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	tL	201	PEB	C4B-C3B-C2B	-3.85	102.52	106.78
29	MJ	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	UJ	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	ML	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	UL	201	PEB	C1C-CHB-C4B	3.85	133.41	128.81
29	NO	201	PEB	CHA-C1B-NB	-3.85	116.88	124.93
29	c7	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	c9	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	MG	404	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	mJ	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	mL	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	BB	301	PEB	CHA-C4A-NA	-3.85	120.63	125.20
29	BM	301	PEB	CHA-C4A-NA	-3.85	120.63	125.20
29	eR	401	PEB	CHC-C1D-ND	-3.85	109.48	113.95
29	UJ	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	UL	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	KC	203	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	KE	203	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	kF	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	kI	202	PEB	OA-C1A-C2A	-3.85	123.11	126.17
29	L3	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	LO	201	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	IA	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	IN	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	B5	202	PEB	C3D-C4D-ND	3.85	114.81	107.26
29	M3	201	PEB	CHA-C1B-NB	-3.85	116.89	124.93
29	MO	201	PEB	CHA-C1B-NB	-3.85	116.89	124.93
29	CJ	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	SJ	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	aJ	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	qJ	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	CL	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	SL	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	aL	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81
29	qL	201	PEB	C1C-CHB-C4B	3.85	133.40	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PJ	201	PEB	C4B-C3B-C2B	-3.85	102.53	106.78
29	PL	201	PEB	C4B-C3B-C2B	-3.85	102.53	106.78
29	H8	202	PEB	C3D-C4D-ND	3.85	114.80	107.26
29	EJ	201	PEB	C3D-C4D-ND	3.85	114.80	107.26
29	xJ	302	PEB	C3D-C4D-ND	3.85	114.80	107.26
29	EL	201	PEB	C3D-C4D-ND	3.85	114.80	107.26
29	a7	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	F9	1002	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	a9	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	KA	202	PEB	CHA-C4A-NA	-3.84	120.63	125.20
29	KN	202	PEB	CHA-C4A-NA	-3.84	120.63	125.20
29	OJ	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	OL	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	xJ	303	PEB	C1C-CHB-C4B	-3.84	124.22	128.81
29	IJ	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	WJ	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	IL	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	WL	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	SR	201	PEB	CHA-C1B-NB	-3.84	116.89	124.93
29	MD	201	PEB	CMB-C2B-C1B	3.84	130.98	125.06
29	L5	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	D7	1002	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	D9	1002	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	YJ	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	YL	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	DG	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	DQ	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	C4	201	PEB	CMB-C2B-C1B	3.84	130.98	125.06
29	uJ	203	PEB	CHA-C1B-NB	-3.84	116.89	124.93
29	uL	203	PEB	CHA-C1B-NB	-3.84	116.89	124.93
29	H5	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	k7	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	k9	201	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	AJ	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	AL	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	JJ	202	PEB	OA-C1A-C2A	-3.84	123.12	126.17
29	JL	202	PEB	OA-C1A-C2A	-3.84	123.12	126.17
29	c1	201	PEB	CHC-C4C-C3C	-3.84	123.78	130.34
29	cK	201	PEB	CHC-C4C-C3C	-3.84	123.78	130.34
29	DK	1002	PEB	C4B-C3B-C2B	-3.84	102.53	106.78
29	N1	1002	PEB	C2A-C1A-NA	3.84	111.58	108.27
29	iJ	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iL	201	PEB	C1C-CHB-C4B	3.84	133.40	128.81
29	SJ	202	PEB	CHA-C1B-NB	-3.84	116.90	124.93
29	mJ	202	PEB	CHA-C1B-NB	-3.84	116.90	124.93
29	SL	202	PEB	CHA-C1B-NB	-3.84	116.90	124.93
29	mL	202	PEB	CHA-C1B-NB	-3.84	116.90	124.93
29	D1	1002	PEB	C4B-C3B-C2B	-3.84	102.53	106.78
29	K4	201	PEB	CMB-C2B-C1B	3.84	130.98	125.06
29	MB	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	MM	202	PEB	C3D-C4D-ND	3.84	114.80	107.26
29	C5	201	PEB	CMB-C2B-C1B	3.84	130.98	125.06
29	P1	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	PK	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	MQ	406	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	xL	303	PEB	C1C-CHB-C4B	-3.84	124.22	128.81
29	M4	201	PEB	CMB-C2B-C1B	3.84	130.98	125.06
29	c1	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	cK	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	vJ	201	PEB	C4B-C3B-C2B	-3.84	102.53	106.78
29	vL	201	PEB	C4B-C3B-C2B	-3.84	102.53	106.78
29	qJ	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	qL	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	G4	201	PEB	C4B-C3B-C2B	-3.84	102.53	106.78
31	C1	1001	CYC	C1B-NB-C4B	-3.84	105.78	110.67
29	m1	202	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	QF	201	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	QI	201	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	mK	202	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	MG	401	PEB	CHC-C4C-C3C	-3.84	123.79	130.34
29	AC	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	AE	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	aJ	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	aL	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	J5	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	EC	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	EE	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	GD	201	PEB	C4B-C3B-C2B	-3.84	102.54	106.78
29	R1	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	RK	203	PEB	CHC-C1D-ND	-3.84	109.49	113.95
29	P7	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	T7	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	P9	201	PEB	C3D-C4D-ND	3.84	114.79	107.26
29	T9	201	PEB	C3D-C4D-ND	3.84	114.79	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	R1	201	PEB	CHC-C4C-C3C	-3.84	123.79	130.34
29	RK	201	PEB	CHC-C4C-C3C	-3.84	123.79	130.34
29	gF	202	PEB	OA-C1A-C2A	-3.84	123.12	126.17
29	gI	202	PEB	OA-C1A-C2A	-3.84	123.12	126.17
29	CJ	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	QJ	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	CL	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	QL	202	PEB	CHA-C1B-NB	-3.84	116.91	124.93
29	I4	202	PEB	C3B-C4B-NB	3.84	115.63	110.05
30	xJ	304	PUB	C1C-C2C-C3C	-3.83	102.54	106.78
29	WR	201	PEB	C1B-C2B-C3B	-3.83	102.11	106.51
29	BG	202	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	BQ	202	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	P1	201	PEB	CHC-C4C-C3C	-3.83	123.80	130.34
29	PK	201	PEB	CHC-C4C-C3C	-3.83	123.80	130.34
29	G4	202	PEB	C3B-C4B-NB	3.83	115.62	110.05
29	GD	202	PEB	C3B-C4B-NB	3.83	115.62	110.05
29	M4	202	PEB	C3B-C4B-NB	3.83	115.62	110.05
29	MJ	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	ML	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	M2	201	PEB	C1B-C2B-C3B	-3.83	102.11	106.51
29	N3	201	PEB	CHA-C1B-NB	-3.83	116.92	124.93
29	K4	202	PEB	C3B-C4B-NB	3.83	115.62	110.05
29	V7	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	V9	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	cJ	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	cL	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	LG	202	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	YJ	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	iJ	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	YL	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	iL	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	LQ	201	PEB	C3D-C4D-ND	3.83	114.78	107.26
29	JJ	201	PEB	C4B-C3B-C2B	-3.83	102.54	106.78
29	ZJ	201	PEB	C4B-C3B-C2B	-3.83	102.54	106.78
29	JL	201	PEB	C4B-C3B-C2B	-3.83	102.54	106.78
29	ZL	201	PEB	C4B-C3B-C2B	-3.83	102.54	106.78
29	CD	201	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	ZJ	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	ZL	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	LQ	202	PEB	C4B-C3B-C2B	-3.83	102.54	106.78
29	Q2	201	PEB	C1B-C2B-C3B	-3.83	102.11	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	sJ	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	sL	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	IJ	202	PEB	CHA-C1B-NB	-3.83	116.92	124.93
29	KJ	202	PEB	CHA-C1B-NB	-3.83	116.92	124.93
29	IL	202	PEB	CHA-C1B-NB	-3.83	116.92	124.93
29	KL	202	PEB	CHA-C1B-NB	-3.83	116.92	124.93
29	AA	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EA	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EB	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EM	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	AN	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EN	202	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EC	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	EE	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	D3	203	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	DO	203	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	SJ	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	SL	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	NK	1002	PEB	C2A-C1A-NA	3.83	111.57	108.27
29	TR	201	PEB	C2A-C1A-NA	3.83	111.57	108.27
29	kJ	201	PEB	C1C-CHB-C4B	3.83	133.38	128.81
29	kL	201	PEB	C1C-CHB-C4B	3.83	133.38	128.81
29	AC	203	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	AE	203	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	OF	201	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	OI	201	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	OJ	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	OL	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	LG	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	MQ	402	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	EJ	201	PEB	C1C-CHB-C4B	3.83	133.38	128.81
29	EL	201	PEB	C1C-CHB-C4B	3.83	133.38	128.81
29	I4	201	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	a1	201	PEB	CHC-C4C-C3C	-3.83	123.81	130.34
29	aK	201	PEB	CHC-C4C-C3C	-3.83	123.81	130.34
29	i7	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	i9	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	mF	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	mI	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	aJ	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	aL	202	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	AF	304	PEB	CMB-C2B-C1B	3.83	130.96	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AI	304	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	AA	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	AN	201	PEB	C3D-C4D-ND	3.83	114.77	107.26
29	bJ	203	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	rJ	203	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	bL	203	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	rL	203	PEB	OA-C1A-C2A	-3.83	123.13	126.17
29	K4	201	PEB	C4B-C3B-C2B	-3.83	102.55	106.78
29	F1	1002	PEB	C2A-C1A-NA	3.83	111.57	108.27
29	DK	1002	PEB	C2A-C1A-NA	3.83	111.57	108.27
29	FK	1002	PEB	C2A-C1A-NA	3.83	111.57	108.27
29	KD	202	PEB	C3B-C4B-NB	3.83	115.61	110.05
29	F3	203	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	FO	203	PEB	CMB-C2B-C1B	3.83	130.96	125.06
29	a1	203	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	UF	202	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	UI	202	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	aK	203	PEB	CHC-C1D-ND	-3.83	109.50	113.95
29	GA	201	PEB	C3D-C4D-ND	3.83	114.76	107.26
29	GN	201	PEB	C3D-C4D-ND	3.83	114.76	107.26
29	MR	201	PEB	C1B-C2B-C3B	-3.83	102.12	106.51
29	BD	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	MJ	202	PEB	CHA-C1B-NB	-3.82	116.93	124.93
29	ML	202	PEB	CHA-C1B-NB	-3.82	116.93	124.93
29	DO	202	PEB	OA-C1A-C2A	-3.82	123.13	126.17
29	D3	202	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	e2	402	PEB	C2A-C1A-NA	3.82	111.57	108.27
30	MQ	405	PUB	C1D-CHC-C4C	-3.82	105.05	113.37
29	cJ	202	PEB	CHA-C1B-NB	-3.82	116.93	124.93
29	cL	202	PEB	CHA-C1B-NB	-3.82	116.93	124.93
29	J8	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	HC	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	HE	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	B3	203	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	A5	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	A8	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	JG	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	BO	203	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	JQ	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	IA	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	IN	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	KD	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OJ	202	PEB	OA-C1A-C2A	-3.82	123.13	126.17
29	OL	202	PEB	OA-C1A-C2A	-3.82	123.13	126.17
29	jJ	202	PEB	CHA-C1B-NB	-3.82	116.94	124.93
29	jL	202	PEB	CHA-C1B-NB	-3.82	116.94	124.93
29	FD	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	lJ	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	lL	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
31	GK	1001	CYC	C1B-NB-C4B	-3.82	105.80	110.67
29	IA	202	PEB	CHA-C4A-NA	-3.82	120.66	125.20
29	IN	202	PEB	CHA-C4A-NA	-3.82	120.66	125.20
30	yJ	302	PUB	CMD-C2D-C3D	3.82	133.51	127.77
30	yL	302	PUB	CMD-C2D-C3D	3.82	133.51	127.77
29	LJ	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	fJ	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	LL	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	fL	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	ED	201	PEB	C3B-C4B-NB	3.82	115.61	110.05
29	i1	201	PEB	CHC-C4C-C3C	-3.82	123.82	130.34
29	iK	201	PEB	CHC-C4C-C3C	-3.82	123.82	130.34
29	g7	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	g9	201	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	i1	203	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	iK	203	PEB	CHC-C1D-ND	-3.82	109.51	113.95
31	CF	1001	CYC	C1B-NB-C4B	-3.82	105.80	110.67
31	CI	1001	CYC	C1B-NB-C4B	-3.82	105.80	110.67
29	F5	202	PEB	C3D-C4D-ND	3.82	114.76	107.26
29	E4	202	PEB	C3B-C4B-NB	3.82	115.61	110.05
29	CD	202	PEB	C3B-C4B-NB	3.82	115.61	110.05
29	J3	203	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	JO	203	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	YJ	202	PEB	CHA-C1B-NB	-3.82	116.94	124.93
29	YL	202	PEB	CHA-C1B-NB	-3.82	116.94	124.93
29	G8	201	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	DG	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	DQ	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	hJ	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	hL	201	PEB	C4B-C3B-C2B	-3.82	102.55	106.78
29	M4	203	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	I5	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	I8	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	KA	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	KN	202	PEB	C3D-C4D-ND	3.82	114.75	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	U2	201	PEB	C1B-C2B-C3B	-3.82	102.12	106.51
29	UR	201	PEB	C1B-C2B-C3B	-3.82	102.12	106.51
29	dJ	203	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	gJ	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	dL	203	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	gL	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	GD	201	PEB	CMB-C2B-C1B	3.82	130.95	125.06
29	lF	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	lI	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	EA	201	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	BC	201	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	BE	201	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	FG	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	EN	201	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	FQ	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	MD	202	PEB	C3B-C4B-NB	3.82	115.60	110.05
29	L1	1002	PEB	C2A-C1A-NA	3.82	111.56	108.27
29	LK	1002	PEB	C2A-C1A-NA	3.82	111.56	108.27
29	EJ	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	EL	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	H3	203	PEB	CMB-C2B-C1B	3.82	130.94	125.06
29	HO	203	PEB	CMB-C2B-C1B	3.82	130.94	125.06
29	qJ	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	qL	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	SB	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	WB	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	SM	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	WM	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	SF	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	fF	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	SI	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	fI	201	PEB	CHC-C1D-ND	-3.82	109.51	113.95
29	m1	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	mK	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	e1	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	eK	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	XJ	201	PEB	C4B-C3B-C2B	-3.82	102.56	106.78
29	XL	201	PEB	C4B-C3B-C2B	-3.82	102.56	106.78
29	B8	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	lB	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	aJ	201	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	aL	201	PEB	C3D-C4D-ND	3.82	114.75	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IM	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	V2	201	PEB	C2A-C1A-NA	3.82	111.56	108.27
29	LG	201	PEB	C2A-C1A-NA	3.82	111.56	108.27
29	MQ	402	PEB	C2A-C1A-NA	3.82	111.56	108.27
29	UJ	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	oJ	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	UL	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	oL	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	U2	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	CB	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	CM	202	PEB	OA-C1A-C2A	-3.82	123.14	126.17
29	T1	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	TK	201	PEB	CHC-C4C-C3C	-3.82	123.83	130.34
29	WJ	203	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	WL	203	PEB	CHA-C1B-NB	-3.82	116.95	124.93
31	M1	1001	CYC	C1B-NB-C4B	-3.82	105.81	110.67
31	MK	1001	CYC	C1B-NB-C4B	-3.82	105.81	110.67
29	IB	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	IM	202	PEB	C3D-C4D-ND	3.82	114.75	107.26
29	OJ	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	gJ	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	OL	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	gL	202	PEB	CHA-C1B-NB	-3.82	116.95	124.93
29	KC	201	PEB	CHC-C1D-ND	-3.82	109.52	113.95
29	KE	201	PEB	CHC-C1D-ND	-3.82	109.52	113.95
29	R7	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	R9	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	oJ	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	oL	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	sJ	202	PEB	CHA-C1B-NB	-3.81	116.95	124.93
29	sL	202	PEB	CHA-C1B-NB	-3.81	116.95	124.93
29	KA	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	KN	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	GC	201	PEB	CHB-C4B-NB	-3.81	123.54	128.83
29	GE	201	PEB	CHB-C4B-NB	-3.81	123.54	128.83
29	Y7	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	Y9	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	HG	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	JG	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	HQ	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	JQ	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	k1	203	PEB	CHC-C1D-ND	-3.81	109.52	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WF	201	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	WI	201	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	kK	203	PEB	CHC-C1D-ND	-3.81	109.52	113.95
30	MQ	405	PUB	CAC-CBC-CGC	-3.81	105.40	113.60
31	KF	1001	CYC	C1B-NB-C4B	-3.81	105.81	110.67
29	KD	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
29	DG	203	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
30	xL	304	PUB	C1C-C2C-C3C	-3.81	102.56	106.78
29	W7	201	PEB	C4B-NB-C1B	-3.81	99.33	106.51
29	W9	201	PEB	C4B-NB-C1B	-3.81	99.33	106.51
29	BG	201	PEB	C2A-C1A-NA	3.81	111.56	108.27
29	BQ	201	PEB	C2A-C1A-NA	3.81	111.56	108.27
29	L3	202	PEB	CMB-C2B-C1B	3.81	130.94	125.06
29	LO	202	PEB	CMB-C2B-C1B	3.81	130.94	125.06
29	KB	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	KM	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
30	MG	403	PUB	CAC-CBC-CGC	-3.81	105.40	113.60
29	NJ	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
29	NL	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
29	OR	201	PEB	C1B-C2B-C3B	-3.81	102.13	106.51
29	AJ	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	AL	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	DC	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	DE	201	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	AA	202	PEB	CHA-C4A-NA	-3.81	120.67	125.20
29	AN	202	PEB	CHA-C4A-NA	-3.81	120.67	125.20
29	g1	203	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	L5	202	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	gK	203	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	GJ	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	GL	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	F4	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
29	jB	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	jM	202	PEB	C3D-C4D-ND	3.81	114.74	107.26
29	ID	202	PEB	C3B-C4B-NB	3.81	115.59	110.05
31	EK	1001	CYC	C1B-NB-C4B	-3.81	105.82	110.67
29	ZJ	203	PEB	OA-C1A-C2A	-3.81	123.14	126.17
29	ZL	203	PEB	OA-C1A-C2A	-3.81	123.14	126.17
29	dF	202	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	dI	202	PEB	CHC-C1D-ND	-3.81	109.52	113.95
29	XR	201	PEB	C2A-C1A-NA	3.81	111.56	108.27
29	FJ	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FL	201	PEB	C4B-C3B-C2B	-3.81	102.56	106.78
29	H7	1002	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	H9	1002	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	CA	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	CB	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	OB	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	DG	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	CM	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	OM	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	CN	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	DQ	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	GA	202	PEB	CHA-C4A-NA	-3.81	120.67	125.20
29	GN	202	PEB	CHA-C4A-NA	-3.81	120.67	125.20
29	eJ	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	eL	201	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	nJ	201	PEB	C4B-C3B-C2B	-3.81	102.57	106.78
29	nL	201	PEB	C4B-C3B-C2B	-3.81	102.57	106.78
29	fJ	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	fL	202	PEB	CHA-C1B-NB	-3.81	116.96	124.93
29	J1	1002	PEB	C2A-C1A-NA	3.81	111.56	108.27
29	JK	1002	PEB	C2A-C1A-NA	3.81	111.56	108.27
29	hB	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	uJ	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	uL	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	hM	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	iJ	202	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	iL	202	PEB	CHA-C1B-NB	-3.81	116.97	124.93
31	D1	1003	CYC	C1B-NB-C4B	-3.81	105.82	110.67
29	YB	203	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	YM	203	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	f7	201	PEB	C4B-NB-C1B	-3.81	99.34	106.51
29	f9	201	PEB	C4B-NB-C1B	-3.81	99.34	106.51
29	HG	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
29	HQ	202	PEB	C3D-C4D-ND	3.81	114.73	107.26
31	CK	1001	CYC	C1B-NB-C4B	-3.81	105.82	110.67
29	dJ	201	PEB	C4B-C3B-C2B	-3.81	102.57	106.78
29	dL	201	PEB	C4B-C3B-C2B	-3.81	102.57	106.78
29	WB	201	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	WM	201	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	XJ	202	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	XL	202	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	HJ	201	PEB	CHA-C1B-NB	-3.81	116.97	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HL	201	PEB	CHA-C1B-NB	-3.81	116.97	124.93
29	SF	202	PEB	CHC-C1D-ND	-3.81	109.53	113.95
29	SI	202	PEB	CHC-C1D-ND	-3.81	109.53	113.95
29	V1	201	PEB	CHC-C4C-C3C	-3.81	123.85	130.34
29	VK	201	PEB	CHC-C4C-C3C	-3.81	123.85	130.34
29	dB	202	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	dM	202	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	WJ	201	PEB	CHA-C1B-NB	-3.80	116.97	124.93
29	WL	201	PEB	CHA-C1B-NB	-3.80	116.97	124.93
29	uJ	202	PEB	C1C-CHB-C4B	3.80	133.35	128.81
29	uL	202	PEB	C1C-CHB-C4B	3.80	133.35	128.81
29	uJ	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	uL	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	ZJ	202	PEB	CHA-C1B-NB	-3.80	116.97	124.93
29	ZL	202	PEB	CHA-C1B-NB	-3.80	116.97	124.93
29	A8	202	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	FG	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	FQ	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	bJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	sJ	203	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	bL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	sL	203	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	fB	202	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	fM	202	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	eJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	pJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	eL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	pL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	DQ	203	PEB	C4B-C3B-C2B	-3.80	102.57	106.78
29	NJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	NL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	LC	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	LE	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	EC	201	PEB	CHB-C4B-NB	-3.80	123.55	128.83
29	EE	201	PEB	CHB-C4B-NB	-3.80	123.55	128.83
29	YF	203	PEB	C2A-C1A-NA	3.80	111.55	108.27
29	YI	203	PEB	C2A-C1A-NA	3.80	111.55	108.27
29	pJ	201	PEB	C4B-C3B-C2B	-3.80	102.57	106.78
29	pL	201	PEB	C4B-C3B-C2B	-3.80	102.57	106.78
29	JJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	JL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	F8	202	PEB	C3D-C4D-ND	3.80	114.72	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Q7	201	PEB	C4B-NB-C1B	-3.80	99.35	106.51
29	Q9	201	PEB	C4B-NB-C1B	-3.80	99.35	106.51
29	e1	203	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	bF	201	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	bI	201	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	eK	203	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	QB	204	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	GJ	202	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	IJ	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	GL	202	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	IL	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	QM	204	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	IJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	IL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	HQ	203	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	WF	202	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	WI	202	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	M4	203	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	A7	305	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	A9	305	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	QB	204	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	FC	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	FE	201	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	QM	204	PEB	C3D-C4D-ND	3.80	114.72	107.26
29	SB	201	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	SM	201	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	SB	202	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	FJ	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	FL	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	SM	202	PEB	OA-C1A-C2A	-3.80	123.15	126.17
31	E1	1001	CYC	C1B-NB-C4B	-3.80	105.83	110.67
29	BQ	203	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	EJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	PJ	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	EL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	PL	202	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	jF	202	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	jI	202	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	ZF	201	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	ZI	201	PEB	CHC-C1D-ND	-3.80	109.53	113.95
29	K5	201	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	AJ	203	PEB	CHA-C1B-NB	-3.80	116.98	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AL	203	PEB	CHA-C1B-NB	-3.80	116.98	124.93
29	g1	201	PEB	CHC-C4C-C3C	-3.80	123.86	130.34
29	gK	201	PEB	CHC-C4C-C3C	-3.80	123.86	130.34
31	K1	1001	CYC	C1B-NB-C4B	-3.80	105.83	110.67
31	KK	1001	CYC	C1B-NB-C4B	-3.80	105.83	110.67
29	TJ	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	TL	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	TJ	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	TL	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	U7	201	PEB	C4B-NB-C1B	-3.80	99.35	106.51
29	U9	201	PEB	C4B-NB-C1B	-3.80	99.35	106.51
29	MA	405	PEB	CHA-C1B-C2B	3.80	134.67	124.90
29	AC	201	PEB	CHB-C4B-NB	-3.80	123.56	128.83
29	AE	201	PEB	CHB-C4B-NB	-3.80	123.56	128.83
29	YB	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	YM	203	PEB	OA-C1A-C2A	-3.80	123.15	126.17
29	A1	302	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	UB	201	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	AK	302	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	UM	201	PEB	CHA-C1B-NB	-3.80	116.99	124.93
30	BB	302	PUB	CMA-C2A-C1A	3.80	130.32	121.39
30	BM	302	PUB	CMA-C2A-C1A	3.80	130.32	121.39
29	L4	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	uJ	201	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	uL	201	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	G4	201	PEB	CMB-C2B-C1B	3.80	130.91	125.06
29	GB	202	PEB	C3D-C4D-ND	3.80	114.71	107.26
29	GM	202	PEB	C3D-C4D-ND	3.80	114.71	107.26
29	LD	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	nJ	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	nL	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	QR	201	PEB	C1B-C2B-C3B	-3.80	102.15	106.51
29	D4	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	VJ	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	VL	201	PEB	C4B-C3B-C2B	-3.80	102.58	106.78
29	O7	201	PEB	C4B-NB-C1B	-3.80	99.36	106.51
29	O9	201	PEB	C4B-NB-C1B	-3.80	99.36	106.51
29	RJ	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
29	RL	202	PEB	CHA-C1B-NB	-3.80	116.99	124.93
31	I1	1001	CYC	C1B-NB-C4B	-3.80	105.84	110.67
31	IK	1001	CYC	C1B-NB-C4B	-3.80	105.84	110.67
29	h7	201	PEB	C4B-NB-C1B	-3.80	99.36	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	h9	201	PEB	C4B-NB-C1B	-3.80	99.36	106.51
29	EA	202	PEB	CHA-C4A-NA	-3.79	120.69	125.20
29	EN	202	PEB	CHA-C4A-NA	-3.79	120.69	125.20
29	F5	202	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	F8	202	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	RJ	201	PEB	C4B-C3B-C2B	-3.79	102.58	106.78
29	jJ	201	PEB	C4B-C3B-C2B	-3.79	102.58	106.78
29	RL	201	PEB	C4B-C3B-C2B	-3.79	102.58	106.78
29	jL	201	PEB	C4B-C3B-C2B	-3.79	102.58	106.78
29	QB	203	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	QM	203	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	aB	202	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	aM	202	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	V1	203	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	hF	201	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	hI	201	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	VK	203	PEB	CHC-C1D-ND	-3.79	109.54	113.95
29	CC	201	PEB	CHB-C4B-NB	-3.79	123.56	128.83
29	CE	201	PEB	CHB-C4B-NB	-3.79	123.56	128.83
29	CB	201	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	CM	201	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	H8	201	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	DJ	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	DL	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	JG	201	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	JQ	201	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	UB	202	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	MQ	401	PEB	C3D-C4D-ND	3.79	114.70	107.26
29	CA	202	PEB	CHA-C4A-NA	-3.79	120.70	125.20
29	CN	202	PEB	CHA-C4A-NA	-3.79	120.70	125.20
29	AG	201	PEB	CMB-C2B-C1B	3.79	130.90	125.06
29	AQ	201	PEB	CMB-C2B-C1B	3.79	130.90	125.06
29	Z7	201	PEB	C4B-NB-C1B	-3.79	99.37	106.51
29	Z9	201	PEB	C4B-NB-C1B	-3.79	99.37	106.51
29	QJ	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	QL	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	FJ	202	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	FL	202	PEB	CHA-C1B-NB	-3.79	117.00	124.93
29	TJ	203	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	TL	203	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	W2	201	PEB	C1B-C2B-C3B	-3.79	102.16	106.51
29	LG	203	PEB	C2A-C1A-NA	3.79	111.54	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JQ	203	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	K5	201	PEB	CMB-C2B-C1B	3.79	130.90	125.06
31	EF	1001	CYC	C1B-NB-C4B	-3.79	105.84	110.67
31	EI	1001	CYC	C1B-NB-C4B	-3.79	105.84	110.67
29	dJ	202	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	dL	202	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	UB	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	CJ	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	LJ	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	CL	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	LL	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	MQ	401	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	lF	202	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	lI	202	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	MB	201	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	MM	201	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	rJ	201	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	rL	201	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	hJ	202	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	hL	202	PEB	CHA-C1B-NB	-3.79	117.01	124.93
29	DD	201	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	BG	203	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	MN	405	PEB	CHA-C1B-C2B	3.79	134.64	124.90
29	jF	201	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	jI	201	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	l7	201	PEB	C4B-NB-C1B	-3.79	99.37	106.51
29	l9	201	PEB	C4B-NB-C1B	-3.79	99.37	106.51
29	K5	202	PEB	C3D-C4D-ND	3.79	114.69	107.26
29	K8	202	PEB	C3D-C4D-ND	3.79	114.69	107.26
29	H8	203	PEB	CHB-C4B-NB	-3.79	123.57	128.83
29	e7	203	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	e9	203	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	BJ	201	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	BL	201	PEB	C4B-C3B-C2B	-3.79	102.59	106.78
29	AF	301	PEB	C3D-C4D-ND	3.79	114.69	107.26
29	AI	301	PEB	C3D-C4D-ND	3.79	114.69	107.26
29	bF	202	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	bI	202	PEB	CHC-C1D-ND	-3.79	109.55	113.95
29	fB	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	fM	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	OR	202	PEB	OA-C1A-C2A	-3.79	123.16	126.17
29	JC	201	PEB	C3D-C4D-ND	3.79	114.69	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JE	201	PEB	C3D-C4D-ND	3.79	114.69	107.26
29	FG	201	PEB	CMB-C2B-C1B	3.79	130.89	125.06
29	FQ	201	PEB	CMB-C2B-C1B	3.79	130.89	125.06
29	hB	201	PEB	CHA-C1B-NB	-3.79	117.02	124.93
29	hM	201	PEB	CHA-C1B-NB	-3.79	117.02	124.93
29	rJ	202	PEB	C1B-C2B-C3B	-3.78	102.16	106.51
29	rL	202	PEB	C1B-C2B-C3B	-3.78	102.16	106.51
29	L8	202	PEB	CHC-C1D-ND	-3.78	109.55	113.95
30	MG	403	PUB	C1D-CHC-C4C	-3.78	105.13	113.37
29	dB	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	dM	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	S7	201	PEB	C4B-NB-C1B	-3.78	99.38	106.51
29	S9	201	PEB	C4B-NB-C1B	-3.78	99.38	106.51
29	C4	202	PEB	C3B-C4B-NB	3.78	115.55	110.05
29	GB	202	PEB	OA-C1A-C2A	-3.78	123.16	126.17
29	GM	202	PEB	OA-C1A-C2A	-3.78	123.16	126.17
29	A5	202	PEB	C3D-C4D-ND	3.78	114.68	107.26
29	Y1	201	PEB	CHC-C4C-C3C	-3.78	123.88	130.34
29	YK	201	PEB	CHC-C4C-C3C	-3.78	123.88	130.34
29	H4	201	PEB	C4B-C3B-C2B	-3.78	102.59	106.78
29	O2	201	PEB	C1B-C2B-C3B	-3.78	102.16	106.51
29	fB	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	fM	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	vJ	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	vL	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	OB	202	PEB	C2A-C1A-NA	3.78	111.53	108.27
29	OM	202	PEB	C2A-C1A-NA	3.78	111.53	108.27
29	VR	201	PEB	C2A-C1A-NA	3.78	111.53	108.27
29	BG	201	PEB	CMB-C2B-C1B	3.78	130.89	125.06
29	BQ	201	PEB	CMB-C2B-C1B	3.78	130.89	125.06
29	C5	201	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	C8	201	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	mJ	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	mL	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	JG	203	PEB	C4B-C3B-C2B	-3.78	102.60	106.78
29	bJ	201	PEB	C4B-C3B-C2B	-3.78	102.60	106.78
29	bL	201	PEB	C4B-C3B-C2B	-3.78	102.60	106.78
29	IB	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	aB	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	IM	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	aM	201	PEB	CHA-C1B-NB	-3.78	117.02	124.93
29	HG	201	PEB	CMB-C2B-C1B	3.78	130.89	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HQ	201	PEB	CMB-C2B-C1B	3.78	130.89	125.06
29	dF	203	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	dI	203	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	e2	401	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	GG	201	PEB	CMB-C2B-C1B	3.78	130.88	125.06
29	GQ	201	PEB	CMB-C2B-C1B	3.78	130.88	125.06
31	F1	1001	CYC	CAD-CBD-CGD	-3.78	103.16	113.76
31	FK	1001	CYC	CAD-CBD-CGD	-3.78	103.16	113.76
31	HK	1001	CYC	CAD-CBD-CGD	-3.78	103.16	113.76
29	dB	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	dM	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	IJ	203	PEB	CHA-C1B-NB	-3.78	117.03	124.93
29	IL	203	PEB	CHA-C1B-NB	-3.78	117.03	124.93
29	G8	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	hF	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	hI	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	BG	201	PEB	C3D-C4D-ND	3.78	114.67	107.26
29	BQ	201	PEB	C3D-C4D-ND	3.78	114.67	107.26
29	iJ	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	pJ	203	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	iL	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	pL	203	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	ZJ	202	PEB	C1B-C2B-C3B	-3.78	102.17	106.51
29	ZL	202	PEB	C1B-C2B-C3B	-3.78	102.17	106.51
29	j7	201	PEB	C4B-NB-C1B	-3.78	99.39	106.51
29	j9	201	PEB	C4B-NB-C1B	-3.78	99.39	106.51
29	K8	201	PEB	CMB-C2B-C1B	3.78	130.88	125.06
29	B8	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	fF	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	fI	202	PEB	CHC-C1D-ND	-3.78	109.56	113.95
29	OB	201	PEB	CHA-C1B-NB	-3.78	117.03	124.93
29	OM	201	PEB	CHA-C1B-NB	-3.78	117.03	124.93
31	NK	1001	CYC	CAD-CBD-CGD	-3.78	103.17	113.76
29	MB	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	RB	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	MM	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
29	RM	202	PEB	OA-C1A-C2A	-3.78	123.17	126.17
31	H1	1001	CYC	CAD-CBD-CGD	-3.78	103.17	113.76
30	BB	302	PUB	C1C-C2C-C3C	-3.78	102.60	106.78
30	BM	302	PUB	C1C-C2C-C3C	-3.78	102.60	106.78
29	b7	201	PEB	C4B-NB-C1B	-3.78	99.40	106.51
29	b9	201	PEB	C4B-NB-C1B	-3.78	99.40	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GB	201	PEB	CHA-C1B-NB	-3.78	117.04	124.93
29	GM	201	PEB	CHA-C1B-NB	-3.78	117.04	124.93
29	LG	201	PEB	CMB-C2B-C1B	3.77	130.88	125.06
29	MQ	402	PEB	CMB-C2B-C1B	3.77	130.88	125.06
31	C7	1001	CYC	CMA-C3A-C4A	3.77	130.88	125.06
31	C9	1001	CYC	CMA-C3A-C4A	3.77	130.88	125.06
29	A1	302	PEB	CHC-C4C-C3C	-3.77	123.90	130.34
29	AK	302	PEB	CHC-C4C-C3C	-3.77	123.90	130.34
29	K8	201	PEB	OA-C1A-C2A	-3.77	123.17	126.17
29	BJ	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	BL	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	MN	401	PEB	CHA-C1B-NB	-3.77	117.04	124.93
31	D1	1001	CYC	CAD-CBD-CGD	-3.77	103.18	113.76
31	KI	1001	CYC	C1B-NB-C4B	-3.77	105.86	110.67
29	rJ	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	rL	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	EG	201	PEB	CMB-C2B-C1B	3.77	130.88	125.06
29	EQ	201	PEB	CMB-C2B-C1B	3.77	130.88	125.06
30	wJ	305	PUB	CHB-C1C-C2C	-3.77	116.60	125.32
29	YB	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	YM	202	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	KC	202	PEB	CHB-C4B-NB	-3.77	123.59	128.83
29	KE	202	PEB	CHB-C4B-NB	-3.77	123.59	128.83
31	N1	1001	CYC	CAD-CBD-CGD	-3.77	103.18	113.76
29	I5	202	PEB	C3D-C4D-ND	3.77	114.66	107.26
29	C5	202	PEB	C3D-C4D-ND	3.77	114.66	107.26
29	I8	202	PEB	C3D-C4D-ND	3.77	114.66	107.26
29	W2	202	PEB	OA-C1A-C2A	-3.77	123.17	126.17
29	KB	201	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	KM	201	PEB	CHA-C1B-NB	-3.77	117.04	124.93
29	DA	202	PEB	C3D-C4D-ND	3.77	114.66	107.26
29	DN	202	PEB	C3D-C4D-ND	3.77	114.66	107.26
29	KG	201	PEB	CMB-C2B-C1B	3.77	130.87	125.06
29	KQ	201	PEB	CMB-C2B-C1B	3.77	130.87	125.06
29	WB	202	PEB	OA-C1A-C2A	-3.77	123.17	126.17
29	WM	202	PEB	OA-C1A-C2A	-3.77	123.17	126.17
29	ZF	202	PEB	CHC-C1D-ND	-3.77	109.57	113.95
29	ZI	202	PEB	CHC-C1D-ND	-3.77	109.57	113.95
29	AB	301	PEB	CHA-C4A-NA	-3.77	120.72	125.20
29	T7	203	PEB	CHC-C1D-ND	-3.77	109.57	113.95
29	T9	203	PEB	CHC-C1D-ND	-3.77	109.57	113.95
29	QF	202	PEB	CHC-C1D-ND	-3.77	109.57	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QI	202	PEB	CHC-C1D-ND	-3.77	109.57	113.95
29	DB	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	kJ	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	kL	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	DM	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	BA	202	PEB	C3D-C4D-ND	3.77	114.65	107.26
29	BN	202	PEB	C3D-C4D-ND	3.77	114.65	107.26
29	B4	201	PEB	C4B-C3B-C2B	-3.77	102.61	106.78
29	LQ	202	PEB	C2A-C1A-NA	3.77	111.52	108.27
31	IF	1001	CYC	C1B-NB-C4B	-3.77	105.87	110.67
31	II	1001	CYC	C1B-NB-C4B	-3.77	105.87	110.67
29	lF	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	II	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	EB	201	PEB	CHA-C1B-NB	-3.77	117.05	124.93
29	EM	201	PEB	CHA-C1B-NB	-3.77	117.05	124.93
31	DK	1001	CYC	CAD-CBD-CGD	-3.77	103.20	113.76
31	L1	1001	CYC	CHB-C1B-NB	-3.77	117.97	126.06
31	LK	1001	CYC	CHB-C1B-NB	-3.77	117.97	126.06
29	sJ	203	PEB	C4B-C3B-C2B	-3.77	102.61	106.78
29	sL	203	PEB	C4B-C3B-C2B	-3.77	102.61	106.78
29	FQ	203	PEB	C4B-C3B-C2B	-3.77	102.61	106.78
29	h7	202	PEB	CHC-C4C-C3C	-3.77	123.91	130.34
29	h9	202	PEB	CHC-C4C-C3C	-3.77	123.91	130.34
29	TB	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	TM	202	PEB	OA-C1A-C2A	-3.77	123.18	126.17
29	HG	203	PEB	C2A-C1A-NA	3.77	111.52	108.27
29	FQ	203	PEB	C2A-C1A-NA	3.77	111.52	108.27
29	G5	202	PEB	CHC-C1D-ND	-3.77	109.57	113.95
31	LF	1001	CYC	CHA-C1A-NA	-3.77	123.60	128.83
31	LI	1001	CYC	CHA-C1A-NA	-3.77	123.60	128.83
29	d7	201	PEB	C4B-NB-C1B	-3.77	99.41	106.51
29	d9	201	PEB	C4B-NB-C1B	-3.77	99.41	106.51
29	FG	201	PEB	C2A-C1A-NA	3.77	111.52	108.27
29	FQ	201	PEB	C2A-C1A-NA	3.77	111.52	108.27
29	CG	201	PEB	CMB-C2B-C1B	3.77	130.86	125.06
29	CQ	201	PEB	CMB-C2B-C1B	3.77	130.86	125.06
29	G3	202	PEB	C3D-C4D-ND	3.76	114.65	107.26
29	GO	202	PEB	C3D-C4D-ND	3.76	114.65	107.26
29	LA	203	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	IJ	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	IL	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	LN	203	PEB	OA-C1A-C2A	-3.76	123.18	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	H8	202	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	MA	401	PEB	CHA-C1B-NB	-3.76	117.06	124.93
29	IJ	203	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	IL	203	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	F5	203	PEB	CHB-C4B-NB	-3.76	123.61	128.83
29	i1	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	iK	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
31	K7	1001	CYC	CMA-C3A-C4A	3.76	130.86	125.06
29	FB	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	FM	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	QR	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	C8	202	PEB	C3D-C4D-ND	3.76	114.64	107.26
29	UF	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	dF	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	UI	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	dI	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	WJ	201	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	bJ	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	lJ	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	sJ	203	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	WL	201	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	bL	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	lL	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	sL	203	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	UB	202	PEB	C2A-C1A-NA	3.76	111.52	108.27
29	MQ	401	PEB	C2A-C1A-NA	3.76	111.52	108.27
31	I7	1001	CYC	CMA-C3A-C4A	3.76	130.86	125.06
31	I9	1001	CYC	CMA-C3A-C4A	3.76	130.86	125.06
29	qJ	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	qL	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	xL	302	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	jJ	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	jL	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	jB	201	PEB	CHA-C1B-NB	-3.76	117.06	124.93
29	jM	201	PEB	CHA-C1B-NB	-3.76	117.06	124.93
29	g7	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
29	g9	203	PEB	CHC-C1D-ND	-3.76	109.58	113.95
31	MF	1001	CYC	C1B-NB-C4B	-3.76	105.88	110.67
31	MI	1001	CYC	C1B-NB-C4B	-3.76	105.88	110.67
29	lB	201	PEB	CHA-C1B-NB	-3.76	117.07	124.93
29	lM	201	PEB	CHA-C1B-NB	-3.76	117.07	124.93
29	eF	203	PEB	C2A-C1A-NA	3.76	111.52	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eI	203	PEB	C2A-C1A-NA	3.76	111.52	108.27
30	wL	305	PUB	CHB-C1C-C2C	-3.76	116.63	125.32
31	G7	1001	CYC	C1B-NB-C4B	-3.76	105.88	110.67
29	tJ	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	tL	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	J4	202	PEB	CHA-C4A-NA	-3.76	120.73	125.20
31	J1	1001	CYC	CAD-CBD-CGD	-3.76	103.22	113.76
31	JK	1001	CYC	CAD-CBD-CGD	-3.76	103.22	113.76
31	G7	1001	CYC	CMA-C3A-C4A	3.76	130.85	125.06
29	hJ	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	hL	202	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	DG	201	PEB	C2A-C1A-NA	3.76	111.51	108.27
29	DQ	201	PEB	C2A-C1A-NA	3.76	111.51	108.27
29	U7	202	PEB	CHC-C4C-C3C	-3.76	123.92	130.34
29	W7	202	PEB	CHC-C4C-C3C	-3.76	123.92	130.34
29	U9	202	PEB	CHC-C4C-C3C	-3.76	123.92	130.34
29	W9	202	PEB	CHC-C4C-C3C	-3.76	123.92	130.34
29	IB	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	JJ	203	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	JL	203	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	IM	202	PEB	OA-C1A-C2A	-3.76	123.18	126.17
29	BB	301	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	BM	301	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	Q7	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
29	b7	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
29	Q9	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
29	b9	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
31	L1	1001	CYC	CAD-CBD-CGD	-3.76	103.22	113.76
31	LK	1001	CYC	CAD-CBD-CGD	-3.76	103.22	113.76
31	FF	1001	CYC	CHA-C1A-NA	-3.76	123.61	128.83
31	FI	1001	CYC	CHA-C1A-NA	-3.76	123.61	128.83
29	RJ	203	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	YJ	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	RL	203	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	YL	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
31	G9	1001	CYC	C1B-NB-C4B	-3.76	105.89	110.67
29	H1	1002	PEB	C2A-C1A-NA	3.76	111.51	108.27
29	JG	201	PEB	C2A-C1A-NA	3.76	111.51	108.27
29	JQ	201	PEB	C2A-C1A-NA	3.76	111.51	108.27
29	dJ	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	dL	202	PEB	C4B-C3B-C2B	-3.76	102.62	106.78
29	OF	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QF	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	OI	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	QI	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	j7	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
29	j9	202	PEB	CHC-C4C-C3C	-3.76	123.93	130.34
29	EA	201	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	EN	201	PEB	C1B-C2B-C3B	-3.76	102.19	106.51
29	H5	203	PEB	CHB-C4B-NB	-3.76	123.62	128.83
31	F1	1001	CYC	CHB-C1B-NB	-3.76	118.00	126.06
31	FK	1001	CYC	CHB-C1B-NB	-3.76	118.00	126.06
29	eJ	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	jJ	203	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	eL	202	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	jL	203	PEB	OA-C1A-C2A	-3.76	123.19	126.17
29	LA	202	PEB	C3D-C4D-ND	3.76	114.63	107.26
29	LN	202	PEB	C3D-C4D-ND	3.76	114.63	107.26
29	iF	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	iI	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	PJ	202	PEB	C1B-C2B-C3B	-3.75	102.20	106.51
29	PL	202	PEB	C1B-C2B-C3B	-3.75	102.20	106.51
29	KJ	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	KL	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	PF	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	PI	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	HD	201	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	G8	203	PEB	CHB-C4B-NB	-3.75	123.62	128.83
29	SF	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	SI	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	HJ	201	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	HL	201	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
31	E7	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
31	E9	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
29	DQ	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	B8	203	PEB	CHB-C4B-NB	-3.75	123.62	128.83
29	R7	203	PEB	CHC-C1D-ND	-3.75	109.59	113.95
29	R9	203	PEB	CHC-C1D-ND	-3.75	109.59	113.95
29	MQ	407	PEB	C1B-C2B-C3B	-3.75	102.20	106.51
29	l7	202	PEB	CHC-C4C-C3C	-3.75	123.94	130.34
29	l9	202	PEB	CHC-C4C-C3C	-3.75	123.94	130.34
29	lB	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	cJ	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	oJ	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	cL	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	oL	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	lM	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	kF	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	kI	203	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	CA	201	PEB	CMB-C2B-C1B	3.75	130.84	125.06
29	IG	201	PEB	CMB-C2B-C1B	3.75	130.84	125.06
29	CN	201	PEB	CMB-C2B-C1B	3.75	130.84	125.06
29	IQ	201	PEB	CMB-C2B-C1B	3.75	130.84	125.06
29	pJ	202	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	pL	202	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	G5	203	PEB	CHB-C4B-NB	-3.75	123.62	128.83
29	HB	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	hB	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	AJ	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	AL	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	HM	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	hM	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	SB	202	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	SM	202	PEB	C2A-C1A-NA	3.75	111.51	108.27
29	FA	202	PEB	C3D-C4D-ND	3.75	114.62	107.26
29	FN	202	PEB	C3D-C4D-ND	3.75	114.62	107.26
29	B5	202	PEB	CHC-C1D-ND	-3.75	109.59	113.95
29	f7	202	PEB	CHC-C4C-C3C	-3.75	123.94	130.34
29	f9	202	PEB	CHC-C4C-C3C	-3.75	123.94	130.34
30	xL	305	PUB	CHB-C1C-C2C	-3.75	116.66	125.32
29	GG	201	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	GQ	201	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	I5	201	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	AM	301	PEB	CHA-C4A-NA	-3.75	120.75	125.20
29	PJ	202	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	PL	202	PEB	C4B-C3B-C2B	-3.75	102.63	106.78
29	FA	203	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	FN	203	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	c7	203	PEB	CHC-C1D-ND	-3.75	109.59	113.95
29	c9	203	PEB	CHC-C1D-ND	-3.75	109.59	113.95
29	HA	202	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	HN	202	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	MN	405	PEB	C3D-C4D-ND	3.75	114.61	107.26
31	M7	1001	CYC	CMA-C3A-C4A	3.75	130.84	125.06
29	JJ	202	PEB	C4B-C3B-C2B	-3.75	102.64	106.78
29	JL	202	PEB	C4B-C3B-C2B	-3.75	102.64	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	C3	202	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	CO	202	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	VF	203	PEB	C2A-C1A-NA	3.75	111.50	108.27
29	VI	203	PEB	C2A-C1A-NA	3.75	111.50	108.27
31	HF	1001	CYC	CHA-C1A-NA	-3.75	123.63	128.83
31	HI	1001	CYC	CHA-C1A-NA	-3.75	123.63	128.83
29	FJ	202	PEB	C4B-C3B-C2B	-3.75	102.64	106.78
29	FL	202	PEB	C4B-C3B-C2B	-3.75	102.64	106.78
29	d7	202	PEB	CHC-C4C-C3C	-3.75	123.95	130.34
29	d9	202	PEB	CHC-C4C-C3C	-3.75	123.95	130.34
29	MG	405	PEB	C1B-C2B-C3B	-3.75	102.21	106.51
29	nJ	202	PEB	C1B-C2B-C3B	-3.75	102.21	106.51
29	nL	202	PEB	C1B-C2B-C3B	-3.75	102.21	106.51
29	MA	405	PEB	C3D-C4D-ND	3.75	114.61	107.26
29	HJ	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	HL	202	PEB	OA-C1A-C2A	-3.75	123.19	126.17
29	A3	202	PEB	C3D-C4D-ND	3.74	114.61	107.26
29	AO	202	PEB	C3D-C4D-ND	3.74	114.61	107.26
29	fB	202	PEB	C2A-C1A-NA	3.74	111.50	108.27
29	fM	202	PEB	C2A-C1A-NA	3.74	111.50	108.27
29	m7	203	PEB	CHC-C1D-ND	-3.74	109.60	113.95
29	m9	203	PEB	CHC-C1D-ND	-3.74	109.60	113.95
29	L5	203	PEB	CHB-C4B-NB	-3.74	123.63	128.83
31	G9	1001	CYC	CMA-C3A-C4A	3.74	130.83	125.06
29	CA	201	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	CN	201	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	J4	201	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	JD	201	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	E3	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	EO	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	H5	201	PEB	CMB-C2B-C1B	3.74	130.83	125.06
29	F4	202	PEB	CHA-C4A-NA	-3.74	120.75	125.20
29	HJ	201	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	HL	201	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	OF	202	PEB	CHC-C1D-ND	-3.74	109.60	113.95
29	OI	202	PEB	CHC-C1D-ND	-3.74	109.60	113.95
29	TJ	202	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	TL	202	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
31	E7	1001	CYC	C1B-NB-C4B	-3.74	105.91	110.67
31	E9	1001	CYC	C1B-NB-C4B	-3.74	105.91	110.67
29	QB	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	QM	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K3	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	KO	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	AJ	203	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	AL	203	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
31	NF	1001	CYC	CHA-C1A-NA	-3.74	123.64	128.83
31	NI	1001	CYC	CHA-C1A-NA	-3.74	123.64	128.83
29	JA	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	JN	202	PEB	C3D-C4D-ND	3.74	114.60	107.26
29	hF	201	PEB	C3B-C4B-NB	3.74	115.49	110.05
29	hI	201	PEB	C3B-C4B-NB	3.74	115.49	110.05
29	EA	201	PEB	CMB-C2B-C1B	3.74	130.82	125.06
29	EN	201	PEB	CMB-C2B-C1B	3.74	130.82	125.06
31	DK	1001	CYC	CHB-C1B-NB	-3.74	118.03	126.06
29	DG	203	PEB	C2A-C1A-NA	3.74	111.50	108.27
29	pJ	202	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	pL	202	PEB	C1B-C2B-C3B	-3.74	102.21	106.51
29	O7	202	PEB	CHC-C4C-C3C	-3.74	123.96	130.34
29	O9	202	PEB	CHC-C4C-C3C	-3.74	123.96	130.34
29	Y7	203	PEB	CHC-C1D-ND	-3.74	109.61	113.95
29	Y9	203	PEB	CHC-C1D-ND	-3.74	109.61	113.95
29	F8	203	PEB	CHB-C4B-NB	-3.74	123.64	128.83
29	LG	203	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	I5	201	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	I8	201	PEB	OA-C1A-C2A	-3.74	123.20	126.17
31	K9	1001	CYC	CMA-C3A-C4A	3.74	130.82	125.06
29	FJ	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	fJ	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	FL	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	fL	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
31	M9	1001	CYC	C1B-NB-C4B	-3.74	105.91	110.67
29	RJ	202	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	RL	202	PEB	C4B-C3B-C2B	-3.74	102.64	106.78
29	GA	201	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	uJ	201	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	uL	201	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	GN	201	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	aB	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	SJ	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	nJ	203	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	SL	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	nL	203	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	aM	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FG	201	PEB	C3B-C4B-NB	3.74	115.49	110.05
29	FQ	201	PEB	C3B-C4B-NB	3.74	115.49	110.05
29	i7	203	PEB	CHC-C1D-ND	-3.74	109.61	113.95
29	i9	203	PEB	CHC-C1D-ND	-3.74	109.61	113.95
29	HK	1002	PEB	C2A-C1A-NA	3.74	111.50	108.27
29	bJ	202	PEB	C4B-C3B-C2B	-3.74	102.65	106.78
29	lJ	202	PEB	C4B-C3B-C2B	-3.74	102.65	106.78
29	bL	202	PEB	C4B-C3B-C2B	-3.74	102.65	106.78
29	lL	202	PEB	C4B-C3B-C2B	-3.74	102.65	106.78
31	HK	1001	CYC	CHB-C1B-NB	-3.74	118.03	126.06
29	BJ	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	BL	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	EB	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	EM	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	aB	202	PEB	C2A-C1A-NA	3.74	111.49	108.27
29	aM	202	PEB	C2A-C1A-NA	3.74	111.49	108.27
29	P2	201	PEB	C3B-C4B-NB	3.74	115.48	110.05
29	H8	203	PEB	CMB-C2B-C1B	3.74	130.82	125.06
29	IC	201	PEB	CHB-C4B-NB	-3.74	123.64	128.83
29	IE	201	PEB	CHB-C4B-NB	-3.74	123.64	128.83
29	iB	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	ZF	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	ZI	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	iM	202	PEB	OA-C1A-C2A	-3.74	123.20	126.17
29	NJ	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	TJ	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	NL	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	TL	202	PEB	C1B-C2B-C3B	-3.74	102.22	106.51
29	LD	202	PEB	CHA-C4A-NA	-3.74	120.76	125.20
29	HB	202	PEB	CHB-C4B-NB	-3.73	123.65	128.83
29	HM	202	PEB	CHB-C4B-NB	-3.73	123.65	128.83
30	AF	302	PUB	CHA-C1B-C2B	-3.73	123.97	130.34
30	AI	302	PUB	CHA-C1B-C2B	-3.73	123.97	130.34
31	K7	1001	CYC	C1B-NB-C4B	-3.73	105.91	110.67
29	S7	202	PEB	CHC-C4C-C3C	-3.73	123.97	130.34
29	S9	202	PEB	CHC-C4C-C3C	-3.73	123.97	130.34
29	XR	202	PEB	C3B-C4B-NB	3.73	115.48	110.05
29	BA	203	PEB	OA-C1A-C2A	-3.73	123.20	126.17
29	BJ	203	PEB	OA-C1A-C2A	-3.73	123.20	126.17
29	BL	203	PEB	OA-C1A-C2A	-3.73	123.20	126.17
29	BN	203	PEB	OA-C1A-C2A	-3.73	123.20	126.17
29	WB	202	PEB	C2A-C1A-NA	3.73	111.49	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WM	202	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	AM	302	PEB	CHC-C4C-C3C	-3.73	123.97	130.34
29	V7	203	PEB	CHC-C1D-ND	-3.73	109.61	113.95
29	V9	203	PEB	CHC-C1D-ND	-3.73	109.61	113.95
31	M9	1001	CYC	CMA-C3A-C4A	3.73	130.81	125.06
29	I3	202	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	IO	202	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	Q2	202	PEB	OA-C1A-C2A	-3.73	123.20	126.17
31	NK	1001	CYC	CHB-C1B-NB	-3.73	118.05	126.06
29	k7	203	PEB	CHC-C1D-ND	-3.73	109.61	113.95
29	k9	203	PEB	CHC-C1D-ND	-3.73	109.61	113.95
29	K5	201	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	K8	201	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	DG	201	PEB	C3B-C4B-NB	3.73	115.48	110.05
29	DQ	201	PEB	C3B-C4B-NB	3.73	115.48	110.05
29	PR	201	PEB	C3B-C4B-NB	3.73	115.48	110.05
29	F8	201	PEB	CMB-C2B-C1B	3.73	130.81	125.06
29	IG	201	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	IQ	201	PEB	C3D-C4D-ND	3.73	114.58	107.26
31	N1	1001	CYC	CHB-C1B-NB	-3.73	118.05	126.06
29	HG	201	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	HQ	201	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	C8	201	PEB	C3D-C4D-ND	3.73	114.58	107.26
29	G5	201	PEB	CMB-C2B-C1B	3.73	130.81	125.06
31	J1	1001	CYC	CHB-C1B-NB	-3.73	118.05	126.06
31	JK	1001	CYC	CHB-C1B-NB	-3.73	118.05	126.06
29	MB	202	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	cF	202	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	cI	202	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	MM	202	PEB	C2A-C1A-NA	3.73	111.49	108.27
29	JJ	202	PEB	C1B-C2B-C3B	-3.73	102.23	106.51
29	JL	202	PEB	C1B-C2B-C3B	-3.73	102.23	106.51
29	KB	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	mB	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	hF	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	hI	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	KM	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	mM	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
31	D1	1001	CYC	CHB-C1B-NB	-3.73	118.05	126.06
29	B5	203	PEB	CHB-C4B-NB	-3.73	123.66	128.83
29	XJ	202	PEB	C4B-C3B-C2B	-3.73	102.66	106.78
29	XL	202	PEB	C4B-C3B-C2B	-3.73	102.66	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	I8	201	PEB	C3D-C4D-ND	3.73	114.57	107.26
29	IA	201	PEB	CMB-C2B-C1B	3.73	130.81	125.06
29	IN	201	PEB	CMB-C2B-C1B	3.73	130.81	125.06
29	aB	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	aM	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	TR	202	PEB	C3B-C4B-NB	3.73	115.47	110.05
29	AB	301	PEB	C1B-C2B-C3B	-3.73	102.23	106.51
29	AB	302	PEB	CHC-C4C-C3C	-3.73	123.98	130.34
29	XJ	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	XL	203	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	H5	202	PEB	CHC-C1D-ND	-3.73	109.62	113.95
29	bF	201	PEB	CHA-C1B-NB	-3.73	117.14	124.93
29	bI	201	PEB	CHA-C1B-NB	-3.73	117.14	124.93
29	CB	202	PEB	C2A-C1A-NA	3.73	111.48	108.27
29	YB	203	PEB	C2A-C1A-NA	3.73	111.48	108.27
29	CM	202	PEB	C2A-C1A-NA	3.73	111.48	108.27
29	YM	203	PEB	C2A-C1A-NA	3.73	111.48	108.27
29	L4	202	PEB	CHA-C4A-NA	-3.73	120.78	125.20
29	XJ	202	PEB	C1B-C2B-C3B	-3.73	102.23	106.51
29	XL	202	PEB	C1B-C2B-C3B	-3.73	102.23	106.51
29	FG	203	PEB	C4B-C3B-C2B	-3.73	102.66	106.78
29	IJ	203	PEB	C4B-C3B-C2B	-3.73	102.66	106.78
29	IL	203	PEB	C4B-C3B-C2B	-3.73	102.66	106.78
29	D3	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	JB	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	JM	202	PEB	OA-C1A-C2A	-3.73	123.21	126.17
29	A5	201	PEB	C3D-C4D-ND	3.73	114.57	107.26
31	M7	1001	CYC	C1B-NB-C4B	-3.73	105.93	110.67
29	AM	301	PEB	C1B-C2B-C3B	-3.72	102.23	106.51
29	gF	203	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	gI	203	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	KA	201	PEB	CMB-C2B-C1B	3.72	130.80	125.06
29	KN	201	PEB	CMB-C2B-C1B	3.72	130.80	125.06
29	V1	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
29	VK	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
31	GF	1001	CYC	C1B-NB-C4B	-3.72	105.93	110.67
31	GI	1001	CYC	C1B-NB-C4B	-3.72	105.93	110.67
29	KB	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
29	KM	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
30	xJ	305	PUB	CHB-C1C-C2C	-3.72	116.72	125.32
29	H4	201	PEB	C3B-C4B-NB	3.72	115.47	110.05
29	HG	203	PEB	C4B-C3B-C2B	-3.72	102.66	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CG	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	CQ	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	hJ	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
29	hL	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
29	B5	201	PEB	CMB-C2B-C1B	3.72	130.80	125.06
29	A8	201	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	IG	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	IQ	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	lB	202	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	lM	202	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	JQ	203	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	KA	201	PEB	C1B-C2B-C3B	-3.72	102.23	106.51
29	KN	201	PEB	C1B-C2B-C3B	-3.72	102.23	106.51
29	A9	304	PEB	CHC-C4C-C3C	-3.72	123.99	130.34
29	C5	201	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	ZB	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
29	kB	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
29	ZM	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
29	kM	202	PEB	OA-C1A-C2A	-3.72	123.21	126.17
31	C7	1001	CYC	C1B-NB-C4B	-3.72	105.93	110.67
31	C9	1001	CYC	C1B-NB-C4B	-3.72	105.93	110.67
29	VB	202	PEB	CHB-C4B-NB	-3.72	123.67	128.83
29	VM	202	PEB	CHB-C4B-NB	-3.72	123.67	128.83
31	JF	1001	CYC	CHA-C1A-NA	-3.72	123.67	128.83
31	JI	1001	CYC	CHA-C1A-NA	-3.72	123.67	128.83
29	NJ	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
29	NL	202	PEB	C4B-C3B-C2B	-3.72	102.66	106.78
29	L5	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	GA	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	GN	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	hF	201	PEB	CHA-C1B-NB	-3.72	117.15	124.93
29	hI	201	PEB	CHA-C1B-NB	-3.72	117.15	124.93
29	T2	202	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	V2	202	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	WF	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	WI	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	A7	304	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	hJ	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	hL	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	P1	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	PK	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	Z7	202	PEB	CHC-C4C-C3C	-3.72	123.99	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z9	202	PEB	CHC-C4C-C3C	-3.72	123.99	130.34
29	GG	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	GQ	202	PEB	C3D-C4D-ND	3.72	114.56	107.26
29	QB	204	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	QM	204	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	bF	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	bI	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	WF	201	PEB	CHA-C1B-NB	-3.72	117.15	124.93
29	WI	201	PEB	CHA-C1B-NB	-3.72	117.15	124.93
31	H1	1001	CYC	CHB-C1B-NB	-3.72	118.07	126.06
29	S2	202	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	jJ	202	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	jL	202	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	SF	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	BG	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	SI	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	BQ	201	PEB	C3B-C4B-NB	3.72	115.46	110.05
29	aI	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	fJ	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	aK	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	fL	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	NJ	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	NL	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	F5	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	L8	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	AA	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	AN	201	PEB	CMB-C2B-C1B	3.72	130.79	125.06
29	cI	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
29	cK	202	PEB	C4B-C3B-C2B	-3.72	102.67	106.78
31	I7	1001	CYC	C1B-NB-C4B	-3.72	105.94	110.67
31	I9	1001	CYC	C1B-NB-C4B	-3.72	105.94	110.67
29	EG	201	PEB	C3D-C4D-ND	3.72	114.55	107.26
29	EQ	201	PEB	C3D-C4D-ND	3.72	114.55	107.26
29	AA	201	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	IA	201	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	AN	201	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	IN	201	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	L8	203	PEB	CHB-C4B-NB	-3.72	123.67	128.83
29	KB	202	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	aF	203	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	aI	203	PEB	C2A-C1A-NA	3.72	111.48	108.27
29	KM	202	PEB	C2A-C1A-NA	3.72	111.48	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YB	201	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	jB	202	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	PJ	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	WJ	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	PL	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	WL	203	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	YM	201	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	jM	202	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	wL	302	PEB	CHA-C4A-NA	-3.72	120.79	125.20
29	X2	201	PEB	C3B-C4B-NB	3.72	115.45	110.05
29	UF	202	PEB	C3B-C4B-NB	3.72	115.45	110.05
29	UI	202	PEB	C3B-C4B-NB	3.72	115.45	110.05
29	dJ	202	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	dL	202	PEB	C1B-C2B-C3B	-3.72	102.24	106.51
29	UR	202	PEB	OA-C1A-C2A	-3.72	123.22	126.17
29	QB	203	PEB	OD-C4D-ND	-3.72	120.43	125.93
29	QM	203	PEB	OD-C4D-ND	-3.72	120.43	125.93
29	a7	203	PEB	CHC-C1D-ND	-3.72	109.63	113.95
29	a9	203	PEB	CHC-C1D-ND	-3.72	109.63	113.95
29	F5	203	PEB	CMB-C2B-C1B	3.72	130.78	125.06
29	fF	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	fI	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	U1	201	PEB	C4B-C3B-C2B	-3.71	102.67	106.78
29	UK	201	PEB	C4B-C3B-C2B	-3.71	102.67	106.78
29	KG	201	PEB	C3D-C4D-ND	3.71	114.55	107.26
29	KG	202	PEB	C3D-C4D-ND	3.71	114.55	107.26
29	KQ	201	PEB	C3D-C4D-ND	3.71	114.55	107.26
29	KQ	202	PEB	C3D-C4D-ND	3.71	114.55	107.26
29	OF	201	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	dF	202	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	fF	201	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	OI	201	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	dI	202	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	fI	201	PEB	CHA-C1B-NB	-3.71	117.16	124.93
29	G8	201	PEB	CMB-C2B-C1B	3.71	130.78	125.06
29	JG	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	JQ	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
31	DF	1001	CYC	CHA-C1A-NA	-3.71	123.67	128.83
31	DI	1001	CYC	CHA-C1A-NA	-3.71	123.67	128.83
29	cB	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	UJ	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	sJ	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UL	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	sL	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	cM	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	MN	404	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	CG	201	PEB	C3D-C4D-ND	3.71	114.54	107.26
29	CQ	201	PEB	C3D-C4D-ND	3.71	114.54	107.26
29	VR	202	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	R1	202	PEB	C4B-C3B-C2B	-3.71	102.67	106.78
29	RK	202	PEB	C4B-C3B-C2B	-3.71	102.67	106.78
29	HQ	203	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	HG	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	HQ	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	AB	303	PEB	C3D-C4D-ND	3.71	114.54	107.26
29	EB	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	EM	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	L8	203	PEB	CMB-C2B-C1B	3.71	130.78	125.06
29	Z1	201	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	ZK	201	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	F4	201	PEB	C3B-C4B-NB	3.71	115.45	110.05
29	RF	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	RI	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	SF	201	PEB	CHA-C1B-NB	-3.71	117.17	124.93
29	SI	201	PEB	CHA-C1B-NB	-3.71	117.17	124.93
29	BJ	202	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	BL	202	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	WR	202	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	LG	201	PEB	C3B-C4B-NB	3.71	115.44	110.05
29	MQ	402	PEB	C3B-C4B-NB	3.71	115.44	110.05
29	e1	202	PEB	C1B-C2B-C3B	-3.71	102.25	106.51
29	eK	202	PEB	C1B-C2B-C3B	-3.71	102.25	106.51
29	dF	202	PEB	C3B-C4B-NB	3.71	115.44	110.05
29	dI	202	PEB	C3B-C4B-NB	3.71	115.44	110.05
29	e7	201	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	e9	201	PEB	OA-C1A-C2A	-3.71	123.22	126.17
29	uJ	201	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	uL	201	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	C5	203	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	hB	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	hM	202	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	F8	203	PEB	CMB-C2B-C1B	3.71	130.77	125.06
31	K9	1001	CYC	C1B-NB-C4B	-3.71	105.95	110.67
29	OB	201	PEB	OD-C4D-ND	-3.71	120.44	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OM	201	PEB	OD-C4D-ND	-3.71	120.44	125.93
29	AG	201	PEB	C3D-C4D-ND	3.71	114.53	107.26
29	AQ	201	PEB	C3D-C4D-ND	3.71	114.53	107.26
29	k1	202	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	kK	202	PEB	C4B-C3B-C2B	-3.71	102.68	106.78
29	gB	202	PEB	OA-C1A-C2A	-3.71	123.23	126.17
29	gM	202	PEB	OA-C1A-C2A	-3.71	123.23	126.17
29	FD	201	PEB	C3B-C4B-NB	3.71	115.44	110.05
29	L5	203	PEB	CMB-C2B-C1B	3.71	130.77	125.06
29	HA	203	PEB	OA-C1A-C2A	-3.71	123.23	126.17
29	HN	203	PEB	OA-C1A-C2A	-3.71	123.23	126.17
29	I5	203	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	I8	203	PEB	C2A-C1A-NA	3.71	111.47	108.27
29	e1	201	PEB	C3D-C4D-ND	3.70	114.53	107.26
29	eK	201	PEB	C3D-C4D-ND	3.70	114.53	107.26
29	P7	203	PEB	CHC-C1D-ND	-3.70	109.64	113.95
29	P9	203	PEB	CHC-C1D-ND	-3.70	109.64	113.95
29	j1	203	PEB	C4B-C3B-C2B	-3.70	102.68	106.78
29	AJ	203	PEB	C4B-C3B-C2B	-3.70	102.68	106.78
29	jK	203	PEB	C4B-C3B-C2B	-3.70	102.68	106.78
29	AL	203	PEB	C4B-C3B-C2B	-3.70	102.68	106.78
29	RR	202	PEB	C3B-C4B-NB	3.70	115.44	110.05
29	QF	201	PEB	CHA-C1B-NB	-3.70	117.18	124.93
29	QI	201	PEB	CHA-C1B-NB	-3.70	117.18	124.93
29	c1	201	PEB	C3D-C4D-ND	3.70	114.53	107.26
29	cK	201	PEB	C3D-C4D-ND	3.70	114.53	107.26
29	F3	201	PEB	CMB-C2B-C1B	3.70	130.77	125.06
29	FO	201	PEB	CMB-C2B-C1B	3.70	130.77	125.06
29	RJ	202	PEB	C1B-C2B-C3B	-3.70	102.25	106.51
29	RL	202	PEB	C1B-C2B-C3B	-3.70	102.25	106.51
29	bF	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	bI	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	VB	201	PEB	C2A-C1A-NA	3.70	111.47	108.27
29	VM	201	PEB	C2A-C1A-NA	3.70	111.47	108.27
29	iB	202	PEB	CHB-C4B-NB	-3.70	123.69	128.83
29	iM	202	PEB	CHB-C4B-NB	-3.70	123.69	128.83
30	wL	305	PUB	OD-C4D-ND	-3.70	120.44	125.93
29	lF	201	PEB	CHA-C1B-NB	-3.70	117.19	124.93
29	lI	201	PEB	CHA-C1B-NB	-3.70	117.19	124.93
29	EG	202	PEB	C3D-C4D-ND	3.70	114.52	107.26
29	EQ	202	PEB	C3D-C4D-ND	3.70	114.52	107.26
29	GB	202	PEB	C2A-C1A-NA	3.70	111.47	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FG	203	PEB	C2A-C1A-NA	3.70	111.47	108.27
29	GM	202	PEB	C2A-C1A-NA	3.70	111.47	108.27
29	B8	203	PEB	CMB-C2B-C1B	3.70	130.77	125.06
29	M2	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	fJ	203	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	fL	203	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	QF	201	PEB	C3B-C4B-NB	3.70	115.44	110.05
29	QI	201	PEB	C3B-C4B-NB	3.70	115.44	110.05
29	X2	201	PEB	CHB-C4B-NB	-3.70	123.69	128.83
29	e1	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	eK	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	H8	201	PEB	CMB-C2B-C1B	3.70	130.76	125.06
29	AG	202	PEB	C3D-C4D-ND	3.70	114.52	107.26
29	AQ	202	PEB	C3D-C4D-ND	3.70	114.52	107.26
29	rJ	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	rL	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	m7	201	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	m9	201	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	xL	303	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	FD	202	PEB	CHA-C4A-NA	-3.70	120.81	125.20
29	UF	202	PEB	CHA-C1B-NB	-3.70	117.19	124.93
29	UI	202	PEB	CHA-C1B-NB	-3.70	117.19	124.93
29	R2	202	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	NR	202	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	nJ	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	nL	202	PEB	C4B-C3B-C2B	-3.70	102.69	106.78
29	jF	201	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	jI	201	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	U1	203	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	VJ	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	UK	203	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	VL	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	B8	201	PEB	CMB-C2B-C1B	3.70	130.76	125.06
29	N2	202	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	MA	404	PEB	C3B-C4B-NB	3.70	115.43	110.05
29	V7	201	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	V9	201	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	VB	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	fF	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	jF	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	fI	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	jI	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VM	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	BG	203	PEB	C2A-C1A-NA	3.70	111.46	108.27
29	a1	201	PEB	C3D-C4D-ND	3.70	114.51	107.26
29	aK	201	PEB	C3D-C4D-ND	3.70	114.51	107.26
29	MB	201	PEB	OD-C4D-ND	-3.70	120.45	125.93
29	MM	201	PEB	OD-C4D-ND	-3.70	120.45	125.93
29	LB	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
29	LM	202	PEB	OA-C1A-C2A	-3.70	123.23	126.17
30	wJ	305	PUB	OD-C4D-ND	-3.69	120.46	125.93
29	MB	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	MM	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	g1	202	PEB	C4B-C3B-C2B	-3.69	102.69	106.78
29	WJ	201	PEB	C4B-C3B-C2B	-3.69	102.69	106.78
29	gK	202	PEB	C4B-C3B-C2B	-3.69	102.69	106.78
29	WL	201	PEB	C4B-C3B-C2B	-3.69	102.69	106.78
29	F3	202	PEB	C2A-C1A-NA	3.69	111.46	108.27
29	FO	202	PEB	C2A-C1A-NA	3.69	111.46	108.27
29	P7	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	P9	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	WF	202	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	WI	202	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	jF	201	PEB	CHA-C1B-NB	-3.69	117.21	124.93
29	jI	201	PEB	CHA-C1B-NB	-3.69	117.21	124.93
29	AM	303	PEB	C3D-C4D-ND	3.69	114.51	107.26
29	K5	203	PEB	C2A-C1A-NA	3.69	111.46	108.27
29	K8	203	PEB	C2A-C1A-NA	3.69	111.46	108.27
29	M3	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	B5	203	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	MO	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	A7	304	PEB	CHC-C4C-C3C	-3.69	124.04	130.34
29	wJ	302	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	H5	203	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	BD	201	PEB	C3B-C4B-NB	3.69	115.42	110.05
29	BQ	203	PEB	C2A-C1A-NA	3.69	111.46	108.27
29	wJ	302	PEB	CHA-C4A-NA	-3.69	120.81	125.20
29	SR	201	PEB	CHC-C4C-C3C	-3.69	124.04	130.34
29	C5	201	PEB	CHC-C4C-C3C	-3.69	124.04	130.34
29	xJ	302	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	YB	201	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	YM	201	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	RR	202	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	U1	201	PEB	C1B-C2B-C3B	-3.69	102.27	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z1	201	PEB	C1B-C2B-C3B	-3.69	102.27	106.51
29	UK	201	PEB	C1B-C2B-C3B	-3.69	102.27	106.51
29	ZK	201	PEB	C1B-C2B-C3B	-3.69	102.27	106.51
29	R1	201	PEB	C3D-C4D-ND	3.69	114.50	107.26
29	RK	201	PEB	C3D-C4D-ND	3.69	114.50	107.26
29	ZJ	202	PEB	C4B-C3B-C2B	-3.69	102.70	106.78
29	ZL	202	PEB	C4B-C3B-C2B	-3.69	102.70	106.78
31	I1	1001	CYC	C4D-CHA-C1A	3.69	133.22	128.81
31	HF	1001	CYC	C4A-C3A-C2A	-3.69	102.27	106.51
31	HI	1001	CYC	C4A-C3A-C2A	-3.69	102.27	106.51
29	A5	201	PEB	CHC-C4C-C3C	-3.69	124.05	130.34
29	A8	201	PEB	CHC-C4C-C3C	-3.69	124.05	130.34
29	J3	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	wL	302	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	JO	201	PEB	CMB-C2B-C1B	3.69	130.75	125.06
29	O2	202	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	a7	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	a9	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	XR	202	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	IB	201	PEB	CMB-C2B-C1B	3.69	130.74	125.06
29	IM	201	PEB	CMB-C2B-C1B	3.69	130.74	125.06
29	l1	202	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	lK	202	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	h1	202	PEB	C3D-C4D-ND	3.69	114.49	107.26
29	hK	202	PEB	C3D-C4D-ND	3.69	114.49	107.26
29	g1	202	PEB	C1B-C2B-C3B	-3.69	102.27	106.51
29	gK	202	PEB	C1B-C2B-C3B	-3.69	102.27	106.51
29	R7	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	R9	201	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	DA	203	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	DN	203	PEB	OA-C1A-C2A	-3.69	123.24	126.17
29	ZB	202	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	ZM	202	PEB	CHB-C4B-NB	-3.69	123.71	128.83
29	G4	202	PEB	CBC-CAC-C2C	-3.69	106.33	112.62
29	I4	202	PEB	CBC-CAC-C2C	-3.69	106.33	112.62
29	HD	201	PEB	C3B-C4B-NB	3.69	115.41	110.05
29	lF	201	PEB	C3B-C4B-NB	3.69	115.41	110.05
29	II	201	PEB	C3B-C4B-NB	3.69	115.41	110.05
29	dB	202	PEB	C2A-C1A-NA	3.69	111.45	108.27
29	TF	202	PEB	C2A-C1A-NA	3.69	111.45	108.27
29	TI	202	PEB	C2A-C1A-NA	3.69	111.45	108.27
29	dM	202	PEB	C2A-C1A-NA	3.69	111.45	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	W1	202	PEB	C3D-C4D-ND	3.68	114.49	107.26
29	WK	202	PEB	C3D-C4D-ND	3.68	114.49	107.26
29	D4	201	PEB	C3B-C4B-NB	3.68	115.41	110.05
29	DD	201	PEB	C3B-C4B-NB	3.68	115.41	110.05
29	KB	201	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	wJ	302	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	KM	201	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	ZF	201	PEB	CHA-C1B-NB	-3.68	117.23	124.93
29	ZI	201	PEB	CHA-C1B-NB	-3.68	117.23	124.93
29	IB	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	IM	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	C4	202	PEB	CBC-CAC-C2C	-3.68	106.33	112.62
31	LF	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
31	LI	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
29	RB	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	RM	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
31	HF	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
31	HI	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
29	A1	301	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	AK	301	PEB	CMB-C2B-C1B	3.68	130.74	125.06
31	NF	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
31	NI	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
29	J3	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	jB	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	mF	203	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	mI	203	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	jM	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	JO	202	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	Z1	203	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	j1	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	ZK	203	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	jK	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	MN	401	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	K5	201	PEB	CHC-C4C-C3C	-3.68	124.06	130.34
29	K8	201	PEB	CHC-C4C-C3C	-3.68	124.06	130.34
29	D3	201	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	DO	201	PEB	CMB-C2B-C1B	3.68	130.74	125.06
29	j1	202	PEB	OA-C1A-C2A	-3.68	123.25	126.17
29	jK	202	PEB	OA-C1A-C2A	-3.68	123.25	126.17
29	CC	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	CE	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	c1	202	PEB	C1B-C2B-C3B	-3.68	102.28	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	cK	202	PEB	C1B-C2B-C3B	-3.68	102.28	106.51
29	xJ	303	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	G8	203	PEB	CMB-C2B-C1B	3.68	130.73	125.06
29	P2	201	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	mB	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	mM	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
31	JF	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
31	JI	1001	CYC	C4A-C3A-C2A	-3.68	102.28	106.51
29	QB	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	QM	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	FB	201	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	FM	201	PEB	C2A-C1A-NA	3.68	111.45	108.27
29	HC	201	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	HE	201	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
31	LF	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
31	LI	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
29	E4	202	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	UF	203	PEB	OA-C1A-C2A	-3.68	123.25	126.17
29	UI	203	PEB	OA-C1A-C2A	-3.68	123.25	126.17
29	l1	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	lK	202	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	F7	1002	PEB	C2A-C1A-NA	3.68	111.44	108.27
29	LC	201	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	LE	201	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	R2	202	PEB	CHB-C4B-NB	-3.68	123.72	128.83
29	xL	303	PEB	C3D-C4D-ND	3.68	114.48	107.26
31	NF	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
31	NI	1001	CYC	C1B-NB-C4B	-3.68	105.98	110.67
29	MD	202	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	IB	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	IM	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	JF	1002	PEB	C4B-C3B-C2B	-3.68	102.71	106.78
29	JI	1002	PEB	C4B-C3B-C2B	-3.68	102.71	106.78
29	j1	202	PEB	CHC-C4C-C3C	-3.68	124.06	130.34
29	jK	202	PEB	CHC-C4C-C3C	-3.68	124.06	130.34
29	I4	203	PEB	C2A-C1A-NA	3.68	111.44	108.27
29	T1	201	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	TK	201	PEB	C3D-C4D-ND	3.68	114.48	107.26
29	k1	201	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	AC	202	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	AE	202	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	kK	201	PEB	C3D-C4D-ND	3.68	114.47	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MA	401	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	T2	202	PEB	CHB-C4B-NB	-3.68	123.73	128.83
29	ID	202	PEB	CBC-CAC-C2C	-3.68	106.34	112.62
29	fB	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	hB	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	fM	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	hM	201	PEB	OD-C4D-ND	-3.68	120.48	125.93
29	OF	201	PEB	C3B-C4B-NB	3.68	115.40	110.05
29	OI	201	PEB	C3B-C4B-NB	3.68	115.40	110.05
29	U1	203	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	GC	202	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	GE	202	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	UK	203	PEB	C3D-C4D-ND	3.68	114.47	107.26
29	gB	202	PEB	CHB-C4B-NB	-3.68	123.73	128.83
29	gM	202	PEB	CHB-C4B-NB	-3.68	123.73	128.83
31	DF	1001	CYC	C4A-C3A-C2A	-3.68	102.29	106.51
31	DI	1001	CYC	C4A-C3A-C2A	-3.68	102.29	106.51
29	T7	201	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	T9	201	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	xJ	302	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	CB	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	CM	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	BC	201	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	BE	201	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	QB	203	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	lB	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	QM	203	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	lM	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	L4	201	PEB	C3B-C4B-NB	3.67	115.39	110.05
29	LD	201	PEB	C3B-C4B-NB	3.67	115.39	110.05
29	CD	202	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	aB	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	aM	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	ED	201	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	V1	201	PEB	C3D-C4D-ND	3.67	114.47	107.26
29	VK	201	PEB	C3D-C4D-ND	3.67	114.47	107.26
29	C8	203	PEB	C2A-C1A-NA	3.67	111.44	108.27
29	L9	1002	PEB	C2A-C1A-NA	3.67	111.44	108.27
29	FA	202	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	FN	202	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	b1	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	bK	202	PEB	C3D-C4D-ND	3.67	114.46	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DC	201	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	DE	201	PEB	CBC-CAC-C2C	-3.67	106.35	112.62
29	F9	1002	PEB	C2A-C1A-NA	3.67	111.44	108.27
29	Q1	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	S1	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	QK	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	SK	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	k7	201	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	k9	201	PEB	OA-C1A-C2A	-3.67	123.25	126.17
29	UB	201	PEB	OD-C4D-ND	-3.67	120.49	125.93
29	UM	201	PEB	OD-C4D-ND	-3.67	120.49	125.93
29	eB	201	PEB	C2A-C1A-NA	3.67	111.44	108.27
29	eM	201	PEB	C2A-C1A-NA	3.67	111.44	108.27
29	dJ	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	dL	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	aB	203	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	aM	203	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	j1	203	PEB	C1B-C2B-C3B	-3.67	102.29	106.51
29	jK	203	PEB	C1B-C2B-C3B	-3.67	102.29	106.51
29	EB	201	PEB	OD-C4D-ND	-3.67	120.49	125.93
29	EM	201	PEB	OD-C4D-ND	-3.67	120.49	125.93
29	OB	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	OM	201	PEB	CMB-C2B-C1B	3.67	130.72	125.06
29	HD	202	PEB	CHA-C4A-NA	-3.67	120.84	125.20
29	LC	203	PEB	CHC-C1D-ND	-3.67	109.69	113.95
29	LE	203	PEB	CHC-C1D-ND	-3.67	109.69	113.95
29	m1	201	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	mK	201	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	d1	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	dK	202	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	P1	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	V1	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	a1	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	PK	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	VK	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	aK	202	PEB	C1B-C2B-C3B	-3.67	102.30	106.51
29	KC	203	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	KE	203	PEB	C3D-C4D-ND	3.67	114.46	107.26
29	aB	201	PEB	OD-C4D-ND	-3.67	120.50	125.93
29	aM	201	PEB	OD-C4D-ND	-3.67	120.50	125.93
29	K4	202	PEB	CBC-CAC-C2C	-3.67	106.36	112.62
29	JC	201	PEB	CBC-CAC-C2C	-3.67	106.36	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JE	201	PEB	CBC-CAC-C2C	-3.67	106.36	112.62
29	TR	202	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	M4	202	PEB	CBC-CAC-C2C	-3.67	106.36	112.62
29	ZF	201	PEB	C3B-C4B-NB	3.67	115.38	110.05
29	ZI	201	PEB	C3B-C4B-NB	3.67	115.38	110.05
29	GB	201	PEB	OD-C4D-ND	-3.67	120.50	125.93
29	GM	201	PEB	OD-C4D-ND	-3.67	120.50	125.93
30	MA	402	PUB	CBA-CAA-C3A	-3.67	107.42	112.98
29	FB	202	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	KB	203	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	FM	202	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	KM	203	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	PR	201	PEB	CHB-C4B-NB	-3.67	123.74	128.83
29	xL	302	PEB	CMB-C2B-C1B	3.67	130.71	125.06
31	FF	1001	CYC	C4A-C3A-C2A	-3.67	102.30	106.51
31	FI	1001	CYC	C4A-C3A-C2A	-3.67	102.30	106.51
29	RJ	202	PEB	C3D-C4D-ND	3.67	114.45	107.26
29	RL	202	PEB	C3D-C4D-ND	3.67	114.45	107.26
31	FF	1001	CYC	C1B-NB-C4B	-3.67	106.00	110.67
31	FI	1001	CYC	C1B-NB-C4B	-3.67	106.00	110.67
29	GD	202	PEB	CBC-CAC-C2C	-3.67	106.36	112.62
30	AF	302	PUB	C1C-C2C-C3C	-3.67	102.73	106.78
30	AI	302	PUB	C1C-C2C-C3C	-3.67	102.73	106.78
29	H3	201	PEB	CMB-C2B-C1B	3.67	130.71	125.06
29	HO	201	PEB	CMB-C2B-C1B	3.67	130.71	125.06
29	wL	302	PEB	OA-C1A-C2A	-3.66	123.26	126.17
29	dB	201	PEB	OD-C4D-ND	-3.66	120.50	125.93
29	dM	201	PEB	OD-C4D-ND	-3.66	120.50	125.93
29	C8	201	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	GB	201	PEB	CMB-C2B-C1B	3.66	130.71	125.06
29	GM	201	PEB	CMB-C2B-C1B	3.66	130.71	125.06
29	TB	202	PEB	CHB-C4B-NB	-3.66	123.74	128.83
29	TM	202	PEB	CHB-C4B-NB	-3.66	123.74	128.83
29	MQ	407	PEB	C4B-C3B-C2B	-3.66	102.73	106.78
29	Q1	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	QK	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	O1	202	PEB	C3D-C4D-ND	3.66	114.45	107.26
29	HJ	201	PEB	C3D-C4D-ND	3.66	114.45	107.26
29	OK	202	PEB	C3D-C4D-ND	3.66	114.45	107.26
29	HL	201	PEB	C3D-C4D-ND	3.66	114.45	107.26
29	DB	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	DM	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BC	203	PEB	CHC-C1D-ND	-3.66	109.69	113.95
29	BE	203	PEB	CHC-C1D-ND	-3.66	109.69	113.95
29	FC	201	PEB	CBC-CAC-C2C	-3.66	106.37	112.62
29	FE	201	PEB	CBC-CAC-C2C	-3.66	106.37	112.62
29	L3	201	PEB	CMB-C2B-C1B	3.66	130.70	125.06
29	UB	201	PEB	CMB-C2B-C1B	3.66	130.70	125.06
29	UM	201	PEB	CMB-C2B-C1B	3.66	130.70	125.06
29	LO	201	PEB	CMB-C2B-C1B	3.66	130.70	125.06
29	f1	202	PEB	OA-C1A-C2A	-3.66	123.26	126.17
29	fK	202	PEB	OA-C1A-C2A	-3.66	123.26	126.17
29	wL	303	PEB	OA-C1A-C2A	-3.66	123.26	126.17
29	AF	301	PEB	C1C-CHB-C4B	-3.66	124.44	128.81
29	AI	301	PEB	C1C-CHB-C4B	-3.66	124.44	128.81
29	b1	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	bK	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	HF	1002	PEB	C4B-C3B-C2B	-3.66	102.73	106.78
29	HI	1002	PEB	C4B-C3B-C2B	-3.66	102.73	106.78
29	EC	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	EE	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	jJ	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	jL	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	f1	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	l1	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	fK	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	lK	202	PEB	CHC-C4C-C3C	-3.66	124.09	130.34
29	P1	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	i1	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	PK	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	iK	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
31	JF	1001	CYC	C1B-NB-C4B	-3.66	106.01	110.67
31	JI	1001	CYC	C1B-NB-C4B	-3.66	106.01	110.67
29	JD	201	PEB	C3B-C4B-NB	3.66	115.37	110.05
29	IJ	203	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	IL	203	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	NR	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	Y1	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	YK	201	PEB	C3D-C4D-ND	3.66	114.44	107.26
31	E7	1001	CYC	CBD-CAD-C3D	-3.66	106.38	112.62
31	E9	1001	CYC	CBD-CAD-C3D	-3.66	106.38	112.62
31	D7	1001	CYC	C2A-C1A-NA	3.66	115.37	110.05
31	D9	1001	CYC	C2A-C1A-NA	3.66	115.37	110.05
29	Z1	203	PEB	CHC-C4C-C3C	-3.66	124.10	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	cF	201	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	cI	201	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	ZK	203	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	fI	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
29	fK	202	PEB	C3D-C4D-ND	3.66	114.44	107.26
31	LF	1001	CYC	CHB-C1B-NB	-3.66	118.20	126.06
31	LI	1001	CYC	CHB-C1B-NB	-3.66	118.20	126.06
29	LB	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	cB	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	LM	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	cM	202	PEB	CHB-C4B-NB	-3.66	123.75	128.83
29	i7	201	PEB	OA-C1A-C2A	-3.66	123.27	126.17
29	i9	201	PEB	OA-C1A-C2A	-3.66	123.27	126.17
29	fJ	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	fL	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	AM	301	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	J7	1002	PEB	C2A-C1A-NA	3.66	111.42	108.27
29	I8	201	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	JD	202	PEB	CHA-C4A-NA	-3.66	120.86	125.20
29	hB	201	PEB	CMB-C2B-C1B	3.66	130.69	125.06
29	hM	201	PEB	CMB-C2B-C1B	3.66	130.69	125.06
29	WJ	201	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	nJ	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	WL	201	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	nL	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	lB	201	PEB	OD-C4D-ND	-3.66	120.51	125.93
29	lM	201	PEB	OD-C4D-ND	-3.66	120.51	125.93
29	VR	202	PEB	CHB-C4B-NB	-3.66	123.76	128.83
29	pJ	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	pL	202	PEB	C3D-C4D-ND	3.66	114.43	107.26
29	fB	201	PEB	CMB-C2B-C1B	3.66	130.69	125.06
29	fM	201	PEB	CMB-C2B-C1B	3.66	130.69	125.06
29	TB	201	PEB	C2A-C1A-NA	3.66	111.42	108.27
29	TM	201	PEB	C2A-C1A-NA	3.66	111.42	108.27
29	W1	202	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	WK	202	PEB	CHC-C4C-C3C	-3.66	124.10	130.34
29	O1	202	PEB	OA-C1A-C2A	-3.65	123.27	126.17
29	OK	202	PEB	OA-C1A-C2A	-3.65	123.27	126.17
29	jB	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	jM	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	J4	201	PEB	C3B-C4B-NB	3.65	115.36	110.05
29	xL	302	PEB	CHA-C4A-NA	-3.65	120.86	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	sJ	203	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	sL	203	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	DF	1002	PEB	C4B-C3B-C2B	-3.65	102.74	106.78
29	DI	1002	PEB	C4B-C3B-C2B	-3.65	102.74	106.78
31	E1	1001	CYC	C4D-CHA-C1A	3.65	133.17	128.81
29	B3	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	dB	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	dM	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	BO	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	S1	202	PEB	CHC-C4C-C3C	-3.65	124.11	130.34
29	SK	202	PEB	CHC-C4C-C3C	-3.65	124.11	130.34
29	XJ	202	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	XL	202	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	CB	201	PEB	OD-C4D-ND	-3.65	120.52	125.93
29	CM	201	PEB	OD-C4D-ND	-3.65	120.52	125.93
29	h1	202	PEB	OA-C1A-C2A	-3.65	123.27	126.17
29	hK	202	PEB	OA-C1A-C2A	-3.65	123.27	126.17
29	NO	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	hJ	202	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	hL	202	PEB	C3D-C4D-ND	3.65	114.43	107.26
29	JB	202	PEB	CHB-C4B-NB	-3.65	123.76	128.83
29	JM	202	PEB	CHB-C4B-NB	-3.65	123.76	128.83
29	ZJ	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	ZL	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	EB	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	YB	202	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	EM	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	YM	202	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	xJ	302	PEB	CHA-C4A-NA	-3.65	120.86	125.20
29	OF	203	PEB	C3B-C4B-NB	3.65	115.36	110.05
29	OI	203	PEB	C3B-C4B-NB	3.65	115.36	110.05
29	K8	201	PEB	CHA-C1B-NB	-3.65	117.30	124.93
31	C7	1001	CYC	CBD-CAD-C3D	-3.65	106.39	112.62
31	C9	1001	CYC	CBD-CAD-C3D	-3.65	106.39	112.62
29	JG	203	PEB	C2A-C1A-NA	3.65	111.42	108.27
31	NF	1001	CYC	C2C-C1C-NC	3.65	111.42	108.27
31	NI	1001	CYC	C2C-C1C-NC	3.65	111.42	108.27
29	WB	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	WM	201	PEB	CMB-C2B-C1B	3.65	130.69	125.06
29	JJ	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	wJ	303	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	JL	202	PEB	C3D-C4D-ND	3.65	114.42	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	K7	1001	CYC	CBD-CAD-C3D	-3.65	106.39	112.62
29	A5	203	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	A8	203	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	JB	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	cB	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	JM	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	cM	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	N2	202	PEB	CHB-C4B-NB	-3.65	123.77	128.83
29	i1	202	PEB	C1B-C2B-C3B	-3.65	102.32	106.51
29	iK	202	PEB	C1B-C2B-C3B	-3.65	102.32	106.51
29	B4	201	PEB	C3B-C4B-NB	3.65	115.36	110.05
31	G7	1001	CYC	CBD-CAD-C3D	-3.65	106.39	112.62
29	IC	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	IE	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	D4	202	PEB	CHA-C4A-NA	-3.65	120.87	125.20
29	WB	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	WM	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	FJ	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	FL	202	PEB	C3D-C4D-ND	3.65	114.42	107.26
29	LC	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	LE	201	PEB	C2A-C1A-NA	3.65	111.42	108.27
31	FF	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
31	FI	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
29	I5	201	PEB	CHC-C4C-C3C	-3.65	124.11	130.34
30	MN	402	PUB	CBA-CAA-C3A	-3.65	107.45	112.98
29	SB	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	SM	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	G5	203	PEB	CMB-C2B-C1B	3.65	130.68	125.06
29	h1	202	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	AB	301	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	hK	202	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
30	xL	305	PUB	OD-C4D-ND	-3.65	120.53	125.93
29	D7	1002	PEB	C2A-C1A-NA	3.65	111.42	108.27
29	D9	1002	PEB	C2A-C1A-NA	3.65	111.42	108.27
31	LF	1001	CYC	C2C-C1C-NC	3.65	111.42	108.27
31	LI	1001	CYC	C2C-C1C-NC	3.65	111.42	108.27
29	PJ	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	PL	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	U1	203	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	d1	202	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	UK	203	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	dK	202	PEB	CHC-C4C-C3C	-3.65	124.12	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	NF	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
31	NI	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
29	rJ	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	rL	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	KB	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	KM	201	PEB	OD-C4D-ND	-3.65	120.53	125.93
29	SB	201	PEB	CMB-C2B-C1B	3.65	130.68	125.06
29	SM	201	PEB	CMB-C2B-C1B	3.65	130.68	125.06
31	J7	1001	CYC	C2A-C1A-NA	3.65	115.35	110.05
31	JF	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
31	JI	1001	CYC	CHB-C1B-NB	-3.65	118.23	126.06
29	TJ	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	TL	202	PEB	C3D-C4D-ND	3.65	114.41	107.26
29	YF	201	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	YI	201	PEB	CHC-C4C-C3C	-3.65	124.12	130.34
29	KD	202	PEB	CBC-CAC-C2C	-3.64	106.40	112.62
29	I5	202	PEB	CHB-C4B-NB	-3.64	123.77	128.83
29	I8	202	PEB	CHB-C4B-NB	-3.64	123.77	128.83
29	kB	202	PEB	CHB-C4B-NB	-3.64	123.77	128.83
29	kM	202	PEB	CHB-C4B-NB	-3.64	123.77	128.83
31	DF	1001	CYC	C2C-C1C-NC	3.64	111.42	108.27
31	DI	1001	CYC	C2C-C1C-NC	3.64	111.42	108.27
29	NJ	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	NL	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
31	K9	1001	CYC	CBD-CAD-C3D	-3.64	106.40	112.62
29	bJ	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	bL	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
31	D1	1003	CYC	C4D-CHA-C1A	3.64	133.16	128.81
29	YB	201	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	YM	201	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	H3	202	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	J9	1002	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	NB	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	NM	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	HO	202	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	b1	202	PEB	OA-C1A-C2A	-3.64	123.28	126.17
29	bK	202	PEB	OA-C1A-C2A	-3.64	123.28	126.17
29	k1	202	PEB	C1B-C2B-C3B	-3.64	102.33	106.51
29	kK	202	PEB	C1B-C2B-C3B	-3.64	102.33	106.51
29	g1	201	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	lJ	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	gK	201	PEB	C3D-C4D-ND	3.64	114.41	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	lL	202	PEB	C3D-C4D-ND	3.64	114.41	107.26
29	wL	303	PEB	C3D-C4D-ND	3.64	114.41	107.26
30	AM	305	PUB	C1C-C2C-C3C	-3.64	102.75	106.78
29	N7	1002	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	N9	1002	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	JC	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	JE	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	FB	201	PEB	CMB-C2B-C1B	3.64	130.67	125.06
29	FM	201	PEB	CMB-C2B-C1B	3.64	130.67	125.06
29	FF	1002	PEB	C4B-C3B-C2B	-3.64	102.75	106.78
29	FI	1002	PEB	C4B-C3B-C2B	-3.64	102.75	106.78
29	eF	202	PEB	C3B-C4B-NB	3.64	115.35	110.05
29	eI	202	PEB	C3B-C4B-NB	3.64	115.35	110.05
29	C5	202	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	C8	202	PEB	C2A-C1A-NA	3.64	111.41	108.27
31	HF	1001	CYC	CHB-C1B-NB	-3.64	118.24	126.06
31	HI	1001	CYC	CHB-C1B-NB	-3.64	118.24	126.06
29	BJ	202	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	BL	202	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	J3	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
29	JO	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
31	J9	1001	CYC	C2A-C1A-NA	3.64	115.34	110.05
29	uJ	201	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	uL	201	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	TI	201	PEB	CHC-C4C-C3C	-3.64	124.13	130.34
29	g7	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
29	g9	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
30	xJ	305	PUB	OD-C4D-ND	-3.64	120.54	125.93
29	AJ	203	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	AL	203	PEB	C3D-C4D-ND	3.64	114.40	107.26
29	kB	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	kM	201	PEB	C2A-C1A-NA	3.64	111.41	108.27
29	LF	1002	PEB	C4B-C3B-C2B	-3.64	102.75	106.78
29	LI	1002	PEB	C4B-C3B-C2B	-3.64	102.75	106.78
29	mF	202	PEB	C3B-C4B-NB	3.64	115.34	110.05
29	mI	202	PEB	C3B-C4B-NB	3.64	115.34	110.05
31	F7	1001	CYC	C2A-C1A-NA	3.64	115.34	110.05
29	B4	202	PEB	CHA-C4A-NA	-3.64	120.88	125.20
29	mB	201	PEB	CMB-C2B-C1B	3.64	130.67	125.06
29	mM	201	PEB	CMB-C2B-C1B	3.64	130.67	125.06
31	EK	1001	CYC	C4D-CHA-C1A	3.64	133.16	128.81
29	DC	202	PEB	CHC-C1D-ND	-3.64	109.72	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DE	202	PEB	CHC-C1D-ND	-3.64	109.72	113.95
29	gF	201	PEB	CHC-C4C-C3C	-3.64	124.13	130.34
29	gI	201	PEB	CHC-C4C-C3C	-3.64	124.13	130.34
29	Y7	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
29	Y9	201	PEB	OA-C1A-C2A	-3.64	123.28	126.17
31	G9	1001	CYC	CBD-CAD-C3D	-3.64	106.41	112.62
29	JC	202	PEB	CHC-C1D-ND	-3.64	109.72	113.95
29	JE	202	PEB	CHC-C1D-ND	-3.64	109.72	113.95
31	F9	1001	CYC	C2A-C1A-NA	3.64	115.34	110.05
29	NB	201	PEB	CMB-C2B-C1B	3.64	130.66	125.06
29	NM	201	PEB	CMB-C2B-C1B	3.64	130.66	125.06
29	xJ	301	PEB	CHC-C4C-C3C	-3.64	124.14	130.34
29	YB	202	PEB	OD-C4D-ND	-3.64	120.54	125.93
29	jB	201	PEB	OD-C4D-ND	-3.64	120.54	125.93
29	YM	202	PEB	OD-C4D-ND	-3.64	120.54	125.93
29	jM	201	PEB	OD-C4D-ND	-3.64	120.54	125.93
29	cB	202	PEB	C3D-C4D-ND	3.64	114.39	107.26
29	cM	202	PEB	C3D-C4D-ND	3.64	114.39	107.26
29	A9	304	PEB	OA-C1A-C2A	-3.64	123.28	126.17
31	CK	1001	CYC	C4D-CHA-C1A	3.64	133.15	128.81
29	RF	201	PEB	CHC-C4C-C3C	-3.64	124.14	130.34
29	RI	201	PEB	CHC-C4C-C3C	-3.64	124.14	130.34
29	I5	201	PEB	CHA-C1B-NB	-3.64	117.33	124.93
29	K5	201	PEB	CHA-C1B-NB	-3.64	117.33	124.93
29	I8	201	PEB	CHA-C1B-NB	-3.64	117.33	124.93
31	M9	1001	CYC	CBD-CAD-C3D	-3.63	106.42	112.62
29	JA	202	PEB	OA-C1A-C2A	-3.63	123.28	126.17
29	JA	203	PEB	OA-C1A-C2A	-3.63	123.28	126.17
29	JN	202	PEB	OA-C1A-C2A	-3.63	123.28	126.17
29	JN	203	PEB	OA-C1A-C2A	-3.63	123.28	126.17
29	C8	201	PEB	CHA-C1B-NB	-3.63	117.33	124.93
29	VF	201	PEB	CHC-C4C-C3C	-3.63	124.14	130.34
29	VI	201	PEB	CHC-C4C-C3C	-3.63	124.14	130.34
29	MR	202	PEB	OA-C1A-C2A	-3.63	123.28	126.17
31	DF	1001	CYC	C1B-NB-C4B	-3.63	106.04	110.67
31	DI	1001	CYC	C1B-NB-C4B	-3.63	106.04	110.67
29	C8	201	PEB	C2A-C1A-NA	3.63	111.41	108.27
31	GK	1001	CYC	C4D-CHA-C1A	3.63	133.15	128.81
31	IK	1001	CYC	C4D-CHA-C1A	3.63	133.15	128.81
31	DF	1001	CYC	CHB-C1B-NB	-3.63	118.26	126.06
31	DI	1001	CYC	CHB-C1B-NB	-3.63	118.26	126.06
29	ZB	201	PEB	CMB-C2B-C1B	3.63	130.66	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZM	201	PEB	CMB-C2B-C1B	3.63	130.66	125.06
29	A8	202	PEB	CHB-C4B-NB	-3.63	123.79	128.83
29	A5	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	A8	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	R1	202	PEB	C1B-C2B-C3B	-3.63	102.34	106.51
29	RK	202	PEB	C1B-C2B-C3B	-3.63	102.34	106.51
29	JB	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	JM	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	MG	401	PEB	CBC-CAC-C2C	-3.63	106.42	112.62
29	O1	202	PEB	CHC-C4C-C3C	-3.63	124.14	130.34
29	OK	202	PEB	CHC-C4C-C3C	-3.63	124.14	130.34
29	S1	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	d1	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	SK	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	dK	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	FA	203	PEB	CHC-C1D-ND	-3.63	109.73	113.95
29	FN	203	PEB	CHC-C1D-ND	-3.63	109.73	113.95
30	AB	305	PUB	C1C-C2C-C3C	-3.63	102.76	106.78
29	HB	201	PEB	CMB-C2B-C1B	3.63	130.66	125.06
29	HM	201	PEB	CMB-C2B-C1B	3.63	130.66	125.06
29	H4	202	PEB	CHA-C4A-NA	-3.63	120.89	125.20
29	ZB	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	ZM	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	FB	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	RB	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	FM	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	RM	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	AB	303	PEB	CMB-C2B-C1B	3.63	130.65	125.06
29	eF	202	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	eI	202	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	B3	201	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	BA	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	BN	202	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	BO	201	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	K8	202	PEB	CHB-C4B-NB	-3.63	123.79	128.83
29	TB	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	TM	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	BC	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	BE	201	PEB	C2A-C1A-NA	3.63	111.40	108.27
29	C5	201	PEB	CHA-C1B-NB	-3.63	117.35	124.93
29	gB	202	PEB	C3D-C4D-ND	3.63	114.38	107.26
29	gM	202	PEB	C3D-C4D-ND	3.63	114.38	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	V1	203	PEB	CMB-C2B-C1B	3.63	130.65	125.06
29	PB	201	PEB	CMB-C2B-C1B	3.63	130.65	125.06
29	VK	203	PEB	CMB-C2B-C1B	3.63	130.65	125.06
29	PM	201	PEB	CMB-C2B-C1B	3.63	130.65	125.06
29	AF	304	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	AI	304	PEB	OA-C1A-C2A	-3.63	123.29	126.17
29	BD	202	PEB	CHA-C4A-NA	-3.63	120.89	125.20
29	DD	202	PEB	CHA-C4A-NA	-3.63	120.89	125.20
29	A5	201	PEB	CHA-C1B-NB	-3.63	117.35	124.93
29	A8	201	PEB	CHA-C1B-NB	-3.63	117.35	124.93
29	kB	202	PEB	C3D-C4D-ND	3.63	114.37	107.26
29	mB	202	PEB	C3D-C4D-ND	3.63	114.37	107.26
29	kM	202	PEB	C3D-C4D-ND	3.63	114.37	107.26
29	mM	202	PEB	C3D-C4D-ND	3.63	114.37	107.26
29	N3	201	PEB	CMB-C2B-C1B	3.62	130.65	125.06
29	JB	201	PEB	CMB-C2B-C1B	3.62	130.65	125.06
29	JM	201	PEB	CMB-C2B-C1B	3.62	130.65	125.06
29	HC	203	PEB	CHC-C1D-ND	-3.62	109.74	113.95
29	HE	203	PEB	CHC-C1D-ND	-3.62	109.74	113.95
29	MG	405	PEB	C4B-C3B-C2B	-3.62	102.77	106.78
30	MQ	405	PUB	CMA-C2A-C1A	3.62	129.92	121.39
29	MQ	403	PEB	CBC-CAC-C2C	-3.62	106.44	112.62
31	M7	1001	CYC	CBD-CAD-C3D	-3.62	106.44	112.62
29	iB	201	PEB	CMB-C2B-C1B	3.62	130.65	125.06
29	iM	201	PEB	CMB-C2B-C1B	3.62	130.65	125.06
29	aF	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	aI	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	B3	202	PEB	C2A-C1A-NA	3.62	111.40	108.27
29	BO	202	PEB	C2A-C1A-NA	3.62	111.40	108.27
29	Q1	202	PEB	OA-C1A-C2A	-3.62	123.29	126.17
29	QK	202	PEB	OA-C1A-C2A	-3.62	123.29	126.17
29	A5	202	PEB	CHB-C4B-NB	-3.62	123.80	128.83
29	BJ	203	PEB	C3B-C4B-NB	3.62	115.32	110.05
29	BL	203	PEB	C3B-C4B-NB	3.62	115.32	110.05
29	I5	201	PEB	C2A-C1A-NA	3.62	111.40	108.27
31	M1	1001	CYC	C4D-CHA-C1A	3.62	133.14	128.81
31	MK	1001	CYC	C4D-CHA-C1A	3.62	133.14	128.81
29	iI	203	PEB	CMB-C2B-C1B	3.62	130.64	125.06
29	iK	203	PEB	CMB-C2B-C1B	3.62	130.64	125.06
29	MQ	407	PEB	C3B-C4B-NB	3.62	115.32	110.05
29	DA	203	PEB	CHC-C1D-ND	-3.62	109.74	113.95
29	DN	203	PEB	CHC-C1D-ND	-3.62	109.74	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DB	202	PEB	C3D-C4D-ND	3.62	114.36	107.26
29	DM	202	PEB	C3D-C4D-ND	3.62	114.36	107.26
29	iF	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	iI	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	wL	301	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	XJ	203	PEB	C3B-C4B-NB	3.62	115.32	110.05
29	XL	203	PEB	C3B-C4B-NB	3.62	115.32	110.05
29	kF	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	kI	201	PEB	CHC-C4C-C3C	-3.62	124.16	130.34
29	I3	203	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	gB	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	gM	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	IO	203	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	YF	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	gF	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	YI	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	gI	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	C5	202	PEB	CHB-C4B-NB	-3.62	123.81	128.83
29	C8	202	PEB	CHB-C4B-NB	-3.62	123.81	128.83
29	HB	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	iB	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	HM	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	iM	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	SR	201	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	Y1	202	PEB	CMB-C2B-C1B	3.62	130.64	125.06
29	YK	202	PEB	CMB-C2B-C1B	3.62	130.64	125.06
31	C1	1001	CYC	C4D-CHA-C1A	3.62	133.13	128.81
29	VF	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	VI	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	xL	301	PEB	CHC-C4C-C3C	-3.62	124.17	130.34
29	LA	203	PEB	CHC-C1D-ND	-3.62	109.75	113.95
29	LN	203	PEB	CHC-C1D-ND	-3.62	109.75	113.95
29	VB	202	PEB	C3D-C4D-ND	3.62	114.36	107.26
29	VM	202	PEB	C3D-C4D-ND	3.62	114.36	107.26
29	Z1	203	PEB	OA-C1A-C2A	-3.62	123.30	126.17
29	ZK	203	PEB	OA-C1A-C2A	-3.62	123.30	126.17
29	CC	202	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	CE	202	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	tJ	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	tL	202	PEB	C3B-C4B-NB	3.62	115.31	110.05
29	PF	201	PEB	CHC-C4C-C3C	-3.62	124.17	130.34
29	PI	201	PEB	CHC-C4C-C3C	-3.62	124.17	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MQ	403	PEB	C2A-C1A-NA	3.62	111.39	108.27
29	xL	301	PEB	CHC-C1D-ND	-3.62	109.75	113.95
29	l7	201	PEB	CHC-C4C-C3C	-3.62	124.17	130.34
29	l9	201	PEB	CHC-C4C-C3C	-3.62	124.17	130.34
29	wJ	303	PEB	OA-C1A-C2A	-3.61	123.30	126.17
29	T1	202	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	eB	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	TK	202	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	eM	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	mB	201	PEB	C2A-C1A-NA	3.61	111.39	108.27
29	mM	201	PEB	C2A-C1A-NA	3.61	111.39	108.27
31	N7	1001	CYC	C2A-C1A-NA	3.61	115.31	110.05
31	N9	1001	CYC	C2A-C1A-NA	3.61	115.31	110.05
29	aB	203	PEB	C3D-C4D-ND	3.61	114.35	107.26
29	aM	203	PEB	C3D-C4D-ND	3.61	114.35	107.26
29	DB	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	DM	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	NJ	203	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	NL	203	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	RB	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	RM	201	PEB	CMB-C2B-C1B	3.61	130.63	125.06
29	W1	202	PEB	OA-C1A-C2A	-3.61	123.30	126.17
29	WK	202	PEB	OA-C1A-C2A	-3.61	123.30	126.17
29	FC	203	PEB	CHC-C1D-ND	-3.61	109.75	113.95
29	FE	203	PEB	CHC-C1D-ND	-3.61	109.75	113.95
29	V2	202	PEB	CHB-C4B-NB	-3.61	123.82	128.83
31	K1	1001	CYC	C4D-CHA-C1A	3.61	133.12	128.81
31	KK	1001	CYC	C4D-CHA-C1A	3.61	133.12	128.81
29	QB	202	PEB	C3D-C4D-ND	3.61	114.34	107.26
29	QM	202	PEB	C3D-C4D-ND	3.61	114.34	107.26
29	BD	202	PEB	C3D-C4D-ND	3.61	114.34	107.26
29	PF	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	PI	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
31	H7	1001	CYC	C2A-C1A-NA	3.61	115.30	110.05
31	H9	1001	CYC	C2A-C1A-NA	3.61	115.30	110.05
31	L9	1001	CYC	C2A-C1A-NA	3.61	115.30	110.05
29	cB	201	PEB	CMB-C2B-C1B	3.61	130.62	125.06
29	cM	201	PEB	CMB-C2B-C1B	3.61	130.62	125.06
29	NF	1002	PEB	C4B-C3B-C2B	-3.61	102.79	106.78
29	NI	1002	PEB	C4B-C3B-C2B	-3.61	102.79	106.78
29	RB	201	PEB	C2A-C1A-NA	3.61	111.39	108.27
29	RM	201	PEB	C2A-C1A-NA	3.61	111.39	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AM	303	PEB	CMB-C2B-C1B	3.61	130.62	125.06
29	aF	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	aI	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	AB	303	PEB	CHA-C1B-NB	-3.61	117.38	124.93
30	MG	403	PUB	CMA-C2A-C1A	3.61	129.88	121.39
29	TJ	203	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	TL	203	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	I4	203	PEB	CHC-C4C-C3C	-3.61	124.18	130.34
29	wJ	301	PEB	CHC-C4C-C3C	-3.61	124.18	130.34
29	kF	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	kI	202	PEB	C3B-C4B-NB	3.61	115.30	110.05
29	K5	202	PEB	CHB-C4B-NB	-3.61	123.82	128.83
29	DB	201	PEB	C2A-C1A-NA	3.61	111.38	108.27
29	DM	201	PEB	C2A-C1A-NA	3.61	111.38	108.27
29	mF	201	PEB	CHC-C4C-C3C	-3.61	124.18	130.34
29	mI	201	PEB	CHC-C4C-C3C	-3.61	124.18	130.34
29	c7	201	PEB	OA-C1A-C2A	-3.61	123.31	126.17
29	c9	201	PEB	OA-C1A-C2A	-3.61	123.31	126.17
29	HA	202	PEB	OA-C1A-C2A	-3.61	123.31	126.17
29	HN	202	PEB	OA-C1A-C2A	-3.61	123.31	126.17
29	LB	202	PEB	C3D-C4D-ND	3.61	114.33	107.26
29	LM	202	PEB	C3D-C4D-ND	3.61	114.33	107.26
29	DC	201	PEB	C2A-C1A-NA	3.61	111.38	108.27
29	DE	201	PEB	C2A-C1A-NA	3.61	111.38	108.27
31	I7	1001	CYC	CBD-CAD-C3D	-3.61	106.47	112.62
31	I9	1001	CYC	CBD-CAD-C3D	-3.61	106.47	112.62
29	MQ	406	PEB	C3B-C4B-NB	3.60	115.29	110.05
31	L7	1001	CYC	C2A-C1A-NA	3.60	115.29	110.05
31	xP	1001	CYC	OC-C1C-C2C	-3.60	123.31	126.17
29	LB	201	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	LM	201	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	VB	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	VM	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	dF	201	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	MG	404	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	dI	201	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	eF	201	PEB	CHC-C4C-C3C	-3.60	124.19	130.34
29	eI	201	PEB	CHC-C4C-C3C	-3.60	124.19	130.34
29	ZB	202	PEB	C3D-C4D-ND	3.60	114.33	107.26
29	ZM	202	PEB	C3D-C4D-ND	3.60	114.33	107.26
31	VP	1001	CYC	OC-C1C-C2C	-3.60	123.31	126.17
29	A5	202	PEB	C2A-C1A-NA	3.60	111.38	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L7	1002	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	A8	202	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	iB	202	PEB	C3D-C4D-ND	3.60	114.33	107.26
29	iM	202	PEB	C3D-C4D-ND	3.60	114.33	107.26
29	FC	202	PEB	C4B-C3B-C2B	-3.60	102.80	106.78
29	FE	202	PEB	C4B-C3B-C2B	-3.60	102.80	106.78
29	MG	405	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	PJ	203	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	PL	203	PEB	C3B-C4B-NB	3.60	115.29	110.05
29	a1	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	k1	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	aK	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	kK	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	VF	201	PEB	CBC-CAC-C2C	3.60	118.77	112.62
29	VI	201	PEB	CBC-CAC-C2C	3.60	118.77	112.62
29	kB	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	kM	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	D4	202	PEB	C3D-C4D-ND	3.60	114.33	107.26
29	H4	202	PEB	C3D-C4D-ND	3.60	114.32	107.26
29	OR	201	PEB	OA-C1A-C2A	-3.60	123.31	126.17
29	c1	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	cK	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
30	QB	201	PUB	CHA-C1B-C2B	-3.60	124.20	130.34
30	QM	201	PUB	CHA-C1B-C2B	-3.60	124.20	130.34
29	AF	304	PEB	OD-C4D-ND	-3.60	120.60	125.93
29	AI	304	PEB	OD-C4D-ND	-3.60	120.60	125.93
29	PB	201	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	PM	201	PEB	C2A-C1A-NA	3.60	111.38	108.27
31	HF	1001	CYC	C2C-C1C-NC	3.60	111.38	108.27
31	HI	1001	CYC	C2C-C1C-NC	3.60	111.38	108.27
29	e1	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	XB	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	eK	203	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	XM	201	PEB	CMB-C2B-C1B	3.60	130.61	125.06
29	HA	203	PEB	CHC-C1D-ND	-3.60	109.77	113.95
29	HN	203	PEB	CHC-C1D-ND	-3.60	109.77	113.95
29	DJ	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	DL	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	K5	201	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	PF	202	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	VF	202	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	PI	202	PEB	C2A-C1A-NA	3.60	111.38	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VI	202	PEB	C2A-C1A-NA	3.60	111.38	108.27
29	M2	201	PEB	OA-C1A-C2A	-3.60	123.31	126.17
29	HC	202	PEB	C4B-C3B-C2B	-3.60	102.80	106.78
29	HE	202	PEB	C4B-C3B-C2B	-3.60	102.80	106.78
29	iF	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	iI	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	vJ	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	vL	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
31	L1	1001	CYC	C2B-C1B-NB	3.60	112.25	106.99
31	LK	1001	CYC	C2B-C1B-NB	3.60	112.25	106.99
29	J4	202	PEB	C3D-C4D-ND	3.60	114.32	107.26
29	b7	201	PEB	CHC-C4C-C3C	-3.60	124.20	130.34
29	b9	201	PEB	CHC-C4C-C3C	-3.60	124.20	130.34
29	BA	203	PEB	CHC-C1D-ND	-3.60	109.77	113.95
29	BN	203	PEB	CHC-C1D-ND	-3.60	109.77	113.95
29	UF	201	PEB	C2A-C1A-NA	3.60	111.37	108.27
29	UI	201	PEB	C2A-C1A-NA	3.60	111.37	108.27
29	LB	201	PEB	CMB-C2B-C1B	3.60	130.60	125.06
29	LM	201	PEB	CMB-C2B-C1B	3.60	130.60	125.06
29	VJ	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	VL	202	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	IJ	203	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	IL	203	PEB	C3B-C4B-NB	3.60	115.28	110.05
29	MG	401	PEB	C2A-C1A-NA	3.60	111.37	108.27
29	AM	303	PEB	CHA-C1B-NB	-3.60	117.41	124.93
29	CG	202	PEB	CHC-C4C-C3C	-3.60	124.20	130.34
29	CQ	202	PEB	CHC-C4C-C3C	-3.60	124.20	130.34
29	R1	203	PEB	CMB-C2B-C1B	3.60	130.60	125.06
29	RK	203	PEB	CMB-C2B-C1B	3.60	130.60	125.06
31	F7	1001	CYC	C1A-C2A-C3A	-3.60	102.80	106.78
31	FF	1001	CYC	C2C-C1C-NC	3.59	111.37	108.27
31	FI	1001	CYC	C2C-C1C-NC	3.59	111.37	108.27
29	B4	202	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	HJ	202	PEB	C3B-C4B-NB	3.59	115.28	110.05
29	HL	202	PEB	C3B-C4B-NB	3.59	115.28	110.05
29	Q1	202	PEB	CHA-C1B-NB	-3.59	117.41	124.93
29	QK	202	PEB	CHA-C1B-NB	-3.59	117.41	124.93
29	HB	202	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	HM	202	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	FJ	203	PEB	C3B-C4B-NB	3.59	115.28	110.05
29	FL	203	PEB	C3B-C4B-NB	3.59	115.28	110.05
29	C5	201	PEB	C2A-C1A-NA	3.59	111.37	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KB	203	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	KM	203	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	K8	201	PEB	C2A-C1A-NA	3.59	111.37	108.27
29	GG	201	PEB	C1B-C2B-C3B	-3.59	102.38	106.51
29	GQ	201	PEB	C1B-C2B-C3B	-3.59	102.38	106.51
29	EG	202	PEB	CHC-C4C-C3C	-3.59	124.21	130.34
29	EQ	202	PEB	CHC-C4C-C3C	-3.59	124.21	130.34
29	P1	203	PEB	CMB-C2B-C1B	3.59	130.60	125.06
29	TB	201	PEB	CMB-C2B-C1B	3.59	130.60	125.06
29	PK	203	PEB	CMB-C2B-C1B	3.59	130.60	125.06
29	TM	201	PEB	CMB-C2B-C1B	3.59	130.60	125.06
29	F4	202	PEB	C3D-C4D-ND	3.59	114.31	107.26
29	I8	201	PEB	C2A-C1A-NA	3.59	111.37	108.27
29	aF	202	PEB	C2A-C1A-NA	3.59	111.37	108.27
29	aI	202	PEB	C2A-C1A-NA	3.59	111.37	108.27
29	xL	301	PEB	C3B-C4B-NB	3.59	115.27	110.05
31	xP	1001	CYC	CAA-CBA-CGA	3.59	121.33	113.60
29	ZJ	203	PEB	C3B-C4B-NB	3.59	115.27	110.05
29	ZL	203	PEB	C3B-C4B-NB	3.59	115.27	110.05
29	LD	202	PEB	C3D-C4D-ND	3.59	114.30	107.26
29	Q7	201	PEB	CHC-C4C-C3C	-3.59	124.22	130.34
29	Q9	201	PEB	CHC-C4C-C3C	-3.59	124.22	130.34
29	A1	302	PEB	OA-C1A-C2A	-3.59	123.32	126.17
29	AK	302	PEB	OA-C1A-C2A	-3.59	123.32	126.17
31	F1	1001	CYC	C2B-C1B-NB	3.59	112.24	106.99
31	FK	1001	CYC	C2B-C1B-NB	3.59	112.24	106.99
31	NK	1001	CYC	C2B-C1B-NB	3.59	112.24	106.99
29	iF	201	PEB	CBC-CAC-C2C	3.59	118.74	112.62
29	iI	201	PEB	CBC-CAC-C2C	3.59	118.74	112.62
29	AA	201	PEB	C4B-C3B-C2B	-3.59	102.81	106.78
29	AN	201	PEB	C4B-C3B-C2B	-3.59	102.81	106.78
29	RJ	203	PEB	C3B-C4B-NB	3.59	115.27	110.05
29	RL	203	PEB	C3B-C4B-NB	3.59	115.27	110.05
29	L4	202	PEB	C3D-C4D-ND	3.59	114.30	107.26
29	m1	202	PEB	CMB-C2B-C1B	3.59	130.59	125.06
29	gB	201	PEB	CMB-C2B-C1B	3.59	130.59	125.06
29	mK	202	PEB	CMB-C2B-C1B	3.59	130.59	125.06
29	gM	201	PEB	CMB-C2B-C1B	3.59	130.59	125.06
29	L3	201	PEB	OA-C1A-C2A	-3.59	123.32	126.17
29	LO	201	PEB	OA-C1A-C2A	-3.59	123.32	126.17
31	JF	1001	CYC	C2C-C1C-NC	3.59	111.36	108.27
31	JI	1001	CYC	C2C-C1C-NC	3.59	111.36	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JD	202	PEB	C3D-C4D-ND	3.59	114.30	107.26
29	YF	201	PEB	C3B-C4B-NB	3.59	115.27	110.05
29	YI	201	PEB	C3B-C4B-NB	3.59	115.27	110.05
31	N1	1001	CYC	C2B-C1B-NB	3.59	112.24	106.99
29	OF	203	PEB	C2A-C1A-NA	3.59	111.36	108.27
29	OI	203	PEB	C2A-C1A-NA	3.59	111.36	108.27
29	fF	202	PEB	C3D-C4D-ND	3.59	114.29	107.26
29	fI	202	PEB	C3D-C4D-ND	3.59	114.29	107.26
29	dJ	202	PEB	C3B-C4B-NB	3.59	115.26	110.05
29	dL	202	PEB	C3B-C4B-NB	3.59	115.26	110.05
29	fF	201	PEB	C1B-C2B-C3B	-3.58	102.39	106.51
29	fI	201	PEB	C1B-C2B-C3B	-3.58	102.39	106.51
29	HA	202	PEB	CAB-C3B-C4B	3.58	131.35	125.01
29	HN	202	PEB	CAB-C3B-C4B	3.58	131.35	125.01
29	fI	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	fK	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	jJ	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	jL	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	FF	1002	PEB	OD-C4D-C3D	-3.58	121.34	129.46
29	FI	1002	PEB	OD-C4D-C3D	-3.58	121.34	129.46
29	mF	201	PEB	CBC-CAC-C2C	3.58	118.74	112.62
29	mI	201	PEB	CBC-CAC-C2C	3.58	118.74	112.62
29	T2	201	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	dJ	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	dL	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
30	AF	303	PUB	CHA-C4A-NA	-3.58	109.79	113.95
30	AI	303	PUB	CHA-C4A-NA	-3.58	109.79	113.95
29	cF	201	PEB	CBC-CAC-C2C	3.58	118.73	112.62
29	cI	201	PEB	CBC-CAC-C2C	3.58	118.73	112.62
29	H7	1002	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	H9	1002	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	F3	201	PEB	OA-C1A-C2A	-3.58	123.32	126.17
29	FO	201	PEB	OA-C1A-C2A	-3.58	123.32	126.17
29	bI	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	bK	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	CA	201	PEB	C4B-C3B-C2B	-3.58	102.82	106.78
29	CN	201	PEB	C4B-C3B-C2B	-3.58	102.82	106.78
29	JA	203	PEB	CHC-C1D-ND	-3.58	109.79	113.95
29	JN	203	PEB	CHC-C1D-ND	-3.58	109.79	113.95
29	xJ	301	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	FD	202	PEB	C3D-C4D-ND	3.58	114.29	107.26
29	HD	202	PEB	C3D-C4D-ND	3.58	114.29	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O7	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	O9	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	BG	201	PEB	C1B-C2B-C3B	-3.58	102.40	106.51
29	BQ	201	PEB	C1B-C2B-C3B	-3.58	102.40	106.51
29	JF	1002	PEB	OD-C4D-C3D	-3.58	121.35	129.46
29	JI	1002	PEB	OD-C4D-C3D	-3.58	121.35	129.46
29	S7	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	S9	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
30	MQ	404	PUB	C1C-C2C-C3C	-3.58	102.82	106.78
29	j7	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	j9	201	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	IG	202	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	IQ	202	PEB	CHC-C4C-C3C	-3.58	124.23	130.34
29	AC	202	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	AE	202	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	O1	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	OK	202	PEB	CHA-C1B-NB	-3.58	117.44	124.93
29	nJ	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	nL	203	PEB	C3B-C4B-NB	3.58	115.26	110.05
29	g1	203	PEB	CMB-C2B-C1B	3.58	130.58	125.06
29	gK	203	PEB	CMB-C2B-C1B	3.58	130.58	125.06
29	Z1	203	PEB	CHA-C1B-NB	-3.58	117.45	124.93
29	ZK	203	PEB	CHA-C1B-NB	-3.58	117.45	124.93
29	A1	303	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	CG	201	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	AK	303	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	CQ	201	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	jF	201	PEB	C1B-C2B-C3B	-3.58	102.40	106.51
29	jI	201	PEB	C1B-C2B-C3B	-3.58	102.40	106.51
29	TI	201	PEB	C3B-C4B-NB	3.58	115.25	110.05
29	YF	202	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	YI	202	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	KG	202	PEB	CHC-C4C-C3C	-3.58	124.24	130.34
29	KQ	202	PEB	CHC-C4C-C3C	-3.58	124.24	130.34
29	MG	404	PEB	C1B-C2B-C3B	-3.58	102.40	106.51
29	bJ	203	PEB	C3B-C4B-NB	3.58	115.25	110.05
29	bL	203	PEB	C3B-C4B-NB	3.58	115.25	110.05
29	KA	201	PEB	C4B-C3B-C2B	-3.58	102.82	106.78
29	KN	201	PEB	C4B-C3B-C2B	-3.58	102.82	106.78
29	XB	201	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	XM	201	PEB	C2A-C1A-NA	3.58	111.36	108.27
29	GA	201	PEB	C4B-C3B-C2B	-3.58	102.83	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GN	201	PEB	C4B-C3B-C2B	-3.58	102.83	106.78
29	NF	1002	PEB	OD-C4D-C3D	-3.58	121.36	129.46
29	NI	1002	PEB	OD-C4D-C3D	-3.58	121.36	129.46
29	JJ	203	PEB	C3B-C4B-NB	3.58	115.25	110.05
29	JL	203	PEB	C3B-C4B-NB	3.58	115.25	110.05
29	Z7	201	PEB	CHC-C4C-C3C	-3.58	124.24	130.34
29	Z9	201	PEB	CHC-C4C-C3C	-3.58	124.24	130.34
29	MQ	407	PEB	CHC-C4C-C3C	-3.58	124.24	130.34
30	MG	402	PUB	C1C-C2C-C3C	-3.57	102.83	106.78
29	W7	201	PEB	CHC-C4C-C3C	-3.57	124.24	130.34
29	W9	201	PEB	CHC-C4C-C3C	-3.57	124.24	130.34
29	S2	201	PEB	CHA-C1B-NB	-3.57	117.46	124.93
29	wL	301	PEB	C3B-C4B-NB	3.57	115.25	110.05
29	iF	202	PEB	C2A-C1A-NA	3.57	111.35	108.27
29	iI	202	PEB	C2A-C1A-NA	3.57	111.35	108.27
29	eF	201	PEB	CBC-CAC-C2C	3.57	118.72	112.62
29	eI	201	PEB	CBC-CAC-C2C	3.57	118.72	112.62
29	h1	202	PEB	CHA-C1B-NB	-3.57	117.46	124.93
29	hK	202	PEB	CHA-C1B-NB	-3.57	117.46	124.93
29	AG	202	PEB	CHC-C4C-C3C	-3.57	124.24	130.34
29	AQ	202	PEB	CHC-C4C-C3C	-3.57	124.24	130.34
29	aF	201	PEB	C3B-C4B-NB	3.57	115.25	110.05
29	aI	201	PEB	C3B-C4B-NB	3.57	115.25	110.05
29	rJ	203	PEB	C3B-C4B-NB	3.57	115.25	110.05
29	rL	203	PEB	C3B-C4B-NB	3.57	115.25	110.05
29	DD	202	PEB	C3D-C4D-ND	3.57	114.27	107.26
29	dF	202	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	dI	202	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	hF	202	PEB	C3D-C4D-ND	3.57	114.27	107.26
29	hI	202	PEB	C3D-C4D-ND	3.57	114.27	107.26
29	GG	202	PEB	CHC-C4C-C3C	-3.57	124.25	130.34
29	GQ	202	PEB	CHC-C4C-C3C	-3.57	124.25	130.34
29	d1	202	PEB	CHA-C1B-NB	-3.57	117.46	124.93
29	dK	202	PEB	CHA-C1B-NB	-3.57	117.46	124.93
29	ZF	201	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	ZI	201	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	HF	1002	PEB	OD-C4D-C3D	-3.57	121.37	129.46
29	LF	1002	PEB	OD-C4D-C3D	-3.57	121.37	129.46
29	HI	1002	PEB	OD-C4D-C3D	-3.57	121.37	129.46
29	LI	1002	PEB	OD-C4D-C3D	-3.57	121.37	129.46
29	UF	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	gF	201	PEB	C3B-C4B-NB	3.57	115.24	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mF	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	UI	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	gI	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	mI	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
31	F9	1001	CYC	C1A-C2A-C3A	-3.57	102.83	106.78
29	sJ	203	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	sL	203	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	ZF	202	PEB	C3D-C4D-ND	3.57	114.26	107.26
29	ZI	202	PEB	C3D-C4D-ND	3.57	114.26	107.26
29	lI	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	lK	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	NB	202	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	NM	202	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	IA	201	PEB	C4B-C3B-C2B	-3.57	102.83	106.78
29	IN	201	PEB	C4B-C3B-C2B	-3.57	102.83	106.78
29	xJ	303	PEB	OA-C1A-C2A	-3.57	123.33	126.17
29	VF	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	VI	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	hJ	203	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	hL	203	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	U1	203	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	UK	203	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	h7	201	PEB	CHC-C4C-C3C	-3.57	124.25	130.34
29	h9	201	PEB	CHC-C4C-C3C	-3.57	124.25	130.34
29	LB	203	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	LM	203	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	jI	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	jK	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	kF	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	kI	201	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	S1	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	SK	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	RF	201	PEB	CBC-CAC-C2C	3.57	118.71	112.62
29	RI	201	PEB	CBC-CAC-C2C	3.57	118.71	112.62
29	TR	201	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	I5	202	PEB	C2A-C1A-NA	3.57	111.35	108.27
29	I8	202	PEB	C2A-C1A-NA	3.57	111.35	108.27
29	DG	201	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	DQ	201	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	W1	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	WK	202	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	LJ	202	PEB	C3B-C4B-NB	3.57	115.24	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LL	202	PEB	C3B-C4B-NB	3.57	115.24	110.05
29	NR	201	PEB	CHA-C1B-NB	-3.57	117.47	124.93
29	LG	201	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	MQ	402	PEB	C1B-C2B-C3B	-3.57	102.41	106.51
29	HB	203	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	HM	203	PEB	CAB-C3B-C4B	3.57	131.32	125.01
29	YF	201	PEB	CBC-CAC-C2C	3.57	118.70	112.62
29	YI	201	PEB	CBC-CAC-C2C	3.57	118.70	112.62
29	DF	1002	PEB	OD-C4D-C3D	-3.56	121.38	129.46
29	DI	1002	PEB	OD-C4D-C3D	-3.56	121.38	129.46
29	TI	201	PEB	CBC-CAC-C2C	3.56	118.70	112.62
29	AB	301	PEB	CBA-CAA-C3A	3.56	121.40	113.47
29	bJ	202	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	fJ	203	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	bL	202	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	fL	203	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	gF	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	gI	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	UR	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	QF	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	QI	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
31	VP	1001	CYC	CAB-C3B-C4B	3.56	127.00	121.38
31	HK	1001	CYC	C2B-C1B-NB	3.56	112.20	106.99
29	GC	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	GE	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	PF	201	PEB	CBC-CAC-C2C	3.56	118.70	112.62
29	PI	201	PEB	CBC-CAC-C2C	3.56	118.70	112.62
29	SF	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	SI	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	D3	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	DO	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	iF	201	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	iI	201	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	wJ	301	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	HC	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	HE	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	kF	201	PEB	CBC-CAC-C2C	3.56	118.70	112.62
29	kI	201	PEB	CBC-CAC-C2C	3.56	118.70	112.62
29	BA	202	PEB	CAB-C3B-C4B	3.56	131.31	125.01
29	BN	202	PEB	CAB-C3B-C4B	3.56	131.31	125.01
29	eF	201	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	eI	201	PEB	C3B-C4B-NB	3.56	115.23	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hF	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	lF	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	AG	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	hI	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	II	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	AQ	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	K5	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	K8	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	dF	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	dI	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	LA	202	PEB	CAB-C3B-C4B	3.56	131.31	125.01
29	LN	202	PEB	CAB-C3B-C4B	3.56	131.31	125.01
29	WR	202	PEB	C3D-C4D-ND	3.56	114.24	107.26
29	U2	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	UR	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	cF	201	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	cI	201	PEB	C3B-C4B-NB	3.56	115.23	110.05
29	d7	201	PEB	CHC-C4C-C3C	-3.56	124.27	130.34
29	d9	201	PEB	CHC-C4C-C3C	-3.56	124.27	130.34
29	FC	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	FE	201	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	EC	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	EE	202	PEB	C2A-C1A-NA	3.56	111.34	108.27
29	XR	201	PEB	CHA-C1B-NB	-3.56	117.49	124.93
29	AC	203	PEB	C4B-C3B-C2B	-3.56	102.84	106.78
29	AE	203	PEB	C4B-C3B-C2B	-3.56	102.84	106.78
29	PJ	202	PEB	C3B-C4B-NB	3.56	115.22	110.05
29	PL	202	PEB	C3B-C4B-NB	3.56	115.22	110.05
29	lF	202	PEB	C3D-C4D-ND	3.56	114.24	107.26
29	II	202	PEB	C3D-C4D-ND	3.56	114.24	107.26
31	xP	1001	CYC	CAA-C2A-C3A	-3.56	121.25	127.88
29	OF	202	PEB	C3D-C4D-ND	3.56	114.24	107.26
29	OI	202	PEB	C3D-C4D-ND	3.56	114.24	107.26
31	D1	1001	CYC	C2B-C1B-NB	3.56	112.19	106.99
29	JG	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	JQ	201	PEB	C1B-C2B-C3B	-3.56	102.42	106.51
29	H3	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	LA	202	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	LN	202	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	HO	201	PEB	OA-C1A-C2A	-3.56	123.34	126.17
29	NJ	202	PEB	C3B-C4B-NB	3.56	115.22	110.05
29	NL	202	PEB	C3B-C4B-NB	3.56	115.22	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	VP	1001	CYC	CAA-C2A-C3A	-3.56	121.26	127.88
29	jF	202	PEB	C3D-C4D-ND	3.56	114.23	107.26
29	jI	202	PEB	C3D-C4D-ND	3.56	114.23	107.26
29	pJ	203	PEB	C3B-C4B-NB	3.56	115.22	110.05
29	pL	203	PEB	C3B-C4B-NB	3.56	115.22	110.05
31	VP	1001	CYC	CAA-CBA-CGA	3.55	121.25	113.60
29	U7	201	PEB	CHC-C4C-C3C	-3.55	124.27	130.34
29	U9	201	PEB	CHC-C4C-C3C	-3.55	124.27	130.34
29	aF	201	PEB	CBC-CAC-C2C	3.55	118.69	112.62
29	aI	201	PEB	CBC-CAC-C2C	3.55	118.69	112.62
29	f7	201	PEB	CHC-C4C-C3C	-3.55	124.28	130.34
29	f9	201	PEB	CHC-C4C-C3C	-3.55	124.28	130.34
29	QF	202	PEB	C3D-C4D-ND	3.55	114.23	107.26
29	QI	202	PEB	C3D-C4D-ND	3.55	114.23	107.26
29	gF	201	PEB	CBC-CAC-C2C	3.55	118.68	112.62
29	gI	201	PEB	CBC-CAC-C2C	3.55	118.68	112.62
29	AF	301	PEB	C3B-C4B-NB	3.55	115.22	110.05
29	AI	301	PEB	C3B-C4B-NB	3.55	115.22	110.05
31	D7	1001	CYC	C1A-C2A-C3A	-3.55	102.85	106.78
31	D9	1001	CYC	C1A-C2A-C3A	-3.55	102.85	106.78
29	mF	202	PEB	C2A-C1A-NA	3.55	111.33	108.27
29	mI	202	PEB	C2A-C1A-NA	3.55	111.33	108.27
29	N2	201	PEB	CHA-C1B-NB	-3.55	117.50	124.93
29	HJ	201	PEB	C3B-C4B-NB	3.55	115.22	110.05
29	HL	201	PEB	C3B-C4B-NB	3.55	115.22	110.05
29	LC	202	PEB	C4B-C3B-C2B	-3.55	102.85	106.78
29	LE	202	PEB	C4B-C3B-C2B	-3.55	102.85	106.78
29	HG	201	PEB	C1B-C2B-C3B	-3.55	102.43	106.51
29	HQ	201	PEB	C1B-C2B-C3B	-3.55	102.43	106.51
29	F1	1002	PEB	OD-C4D-ND	-3.55	120.67	125.93
29	FK	1002	PEB	OD-C4D-ND	-3.55	120.67	125.93
29	FJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	FL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	RR	201	PEB	CHA-C1B-NB	-3.55	117.51	124.93
29	bF	202	PEB	C3D-C4D-ND	3.55	114.22	107.26
29	bI	202	PEB	C3D-C4D-ND	3.55	114.22	107.26
29	FA	202	PEB	CAB-C3B-C4B	3.55	131.29	125.01
29	FN	202	PEB	CAB-C3B-C4B	3.55	131.29	125.01
29	DA	202	PEB	OA-C1A-C2A	-3.55	123.35	126.17
29	DN	202	PEB	OA-C1A-C2A	-3.55	123.35	126.17
29	MR	201	PEB	OA-C1A-C2A	-3.55	123.35	126.17
29	SR	202	PEB	OA-C1A-C2A	-3.55	123.35	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	jJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	nJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	pJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	jL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	nL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	pL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	iB	203	PEB	CAB-C3B-C4B	3.55	131.29	125.01
29	iM	203	PEB	CAB-C3B-C4B	3.55	131.29	125.01
29	PB	202	PEB	CAB-C3B-C4B	3.55	131.28	125.01
29	PM	202	PEB	CAB-C3B-C4B	3.55	131.28	125.01
29	xL	301	PEB	C2A-C1A-NA	3.55	111.33	108.27
29	MG	405	PEB	CHC-C4C-C3C	-3.55	124.29	130.34
29	A7	304	PEB	CMB-C2B-C1B	3.55	130.53	125.06
29	PF	201	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	PI	201	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	TJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	IJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	TL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	IL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	MQ	406	PEB	C1B-C2B-C3B	-3.55	102.44	106.51
29	L1	1002	PEB	OD-C4D-ND	-3.55	120.68	125.93
29	LK	1002	PEB	OD-C4D-ND	-3.55	120.68	125.93
31	KI	1001	CYC	C4A-C3A-C2A	-3.55	102.44	106.51
29	hJ	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	hL	202	PEB	C3B-C4B-NB	3.55	115.21	110.05
29	AM	301	PEB	CBA-CAA-C3A	3.55	121.36	113.47
29	KG	201	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	KQ	201	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	l1	202	PEB	C4B-C3B-C2B	-3.54	102.86	106.78
29	lK	202	PEB	C4B-C3B-C2B	-3.54	102.86	106.78
31	xP	1001	CYC	CAB-C3B-C4B	3.54	126.98	121.38
31	J1	1001	CYC	C2B-C1B-NB	3.54	112.18	106.99
31	JK	1001	CYC	C2B-C1B-NB	3.54	112.18	106.99
29	DA	202	PEB	CAB-C3B-C4B	3.54	131.28	125.01
29	cB	203	PEB	CAB-C3B-C4B	3.54	131.28	125.01
29	cM	203	PEB	CAB-C3B-C4B	3.54	131.28	125.01
29	DN	202	PEB	CAB-C3B-C4B	3.54	131.28	125.01
29	rJ	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	rL	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	k7	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	k9	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	R2	201	PEB	CHA-C1B-NB	-3.54	117.52	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	xJ	301	PEB	CHC-C1D-ND	-3.54	109.83	113.95
29	U2	201	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	LC	202	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	LE	202	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	GG	201	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	GQ	201	PEB	C2A-C1A-NA	3.54	111.33	108.27
29	AG	201	PEB	CHC-C4C-C3C	-3.54	124.30	130.34
29	AQ	201	PEB	CHC-C4C-C3C	-3.54	124.30	130.34
31	N7	1001	CYC	C1A-C2A-C3A	-3.54	102.86	106.78
31	N9	1001	CYC	C1A-C2A-C3A	-3.54	102.86	106.78
29	M2	202	PEB	C3D-C4D-ND	3.54	114.21	107.26
29	RF	201	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	RI	201	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	SF	202	PEB	C3D-C4D-ND	3.54	114.21	107.26
29	SI	202	PEB	C3D-C4D-ND	3.54	114.21	107.26
29	DB	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	DM	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	DG	202	PEB	OD-C4D-ND	-3.54	120.69	125.93
29	DQ	202	PEB	OD-C4D-ND	-3.54	120.69	125.93
29	WJ	201	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	WL	201	PEB	C3B-C4B-NB	3.54	115.20	110.05
31	KI	1001	CYC	CHA-C1A-NA	-3.54	123.92	128.83
29	CG	201	PEB	C1B-C2B-C3B	-3.54	102.44	106.51
29	CQ	201	PEB	C1B-C2B-C3B	-3.54	102.44	106.51
29	WF	202	PEB	C3D-C4D-ND	3.54	114.20	107.26
29	WI	202	PEB	C3D-C4D-ND	3.54	114.20	107.26
29	fJ	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	fL	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	e2	402	PEB	CHA-C1B-NB	-3.54	117.53	124.93
29	wJ	301	PEB	C2A-C1A-NA	3.54	111.32	108.27
29	qJ	202	PEB	CMB-C2B-C1B	3.54	130.51	125.06
29	qL	202	PEB	CMB-C2B-C1B	3.54	130.51	125.06
29	V7	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	V9	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	RJ	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	RL	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	UF	203	PEB	C3D-C4D-ND	3.54	114.20	107.26
29	UI	203	PEB	C3D-C4D-ND	3.54	114.20	107.26
29	U1	203	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	UK	203	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	FG	201	PEB	C1B-C2B-C3B	-3.54	102.44	106.51
29	FQ	201	PEB	C1B-C2B-C3B	-3.54	102.44	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eB	202	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	eM	202	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	T7	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	T9	202	PEB	C3B-C4B-NB	3.54	115.20	110.05
29	VB	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	kB	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	VM	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	kM	203	PEB	CAB-C3B-C4B	3.54	131.27	125.01
29	KC	201	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	KE	201	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	BG	202	PEB	OD-C4D-ND	-3.54	120.69	125.93
29	BQ	202	PEB	OD-C4D-ND	-3.54	120.69	125.93
29	WF	201	PEB	C1B-C2B-C3B	-3.54	102.45	106.51
29	WI	201	PEB	C1B-C2B-C3B	-3.54	102.45	106.51
29	P7	202	PEB	C3B-C4B-NB	3.54	115.19	110.05
29	P9	202	PEB	C3B-C4B-NB	3.54	115.19	110.05
31	DK	1001	CYC	C2B-C1B-NB	3.54	112.17	106.99
29	EG	201	PEB	C1B-C2B-C3B	-3.54	102.45	106.51
29	EQ	201	PEB	C1B-C2B-C3B	-3.54	102.45	106.51
29	QR	201	PEB	OA-C1A-C2A	-3.54	123.36	126.17
29	gB	203	PEB	CAB-C3B-C4B	3.54	131.26	125.01
29	gM	203	PEB	CAB-C3B-C4B	3.54	131.26	125.01
31	KF	1001	CYC	C4A-C3A-C2A	-3.54	102.45	106.51
29	G3	202	PEB	OA-C1A-C2A	-3.54	123.36	126.17
29	GO	202	PEB	OA-C1A-C2A	-3.54	123.36	126.17
29	AF	301	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	AI	301	PEB	C4B-C3B-C2B	-3.54	102.87	106.78
29	JJ	202	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	JL	202	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	QR	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	GG	201	PEB	CHC-C4C-C3C	-3.53	124.31	130.34
29	GQ	201	PEB	CHC-C4C-C3C	-3.53	124.31	130.34
29	bF	201	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	bI	201	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
31	MF	1001	CYC	C4A-C3A-C2A	-3.53	102.45	106.51
31	MI	1001	CYC	C4A-C3A-C2A	-3.53	102.45	106.51
29	JB	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	JM	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	IJ	203	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	IL	203	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	kJ	202	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	kL	202	PEB	C1B-C2B-C3B	-3.53	102.45	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	f1	202	PEB	C4B-C3B-C2B	-3.53	102.87	106.78
29	fK	202	PEB	C4B-C3B-C2B	-3.53	102.87	106.78
29	FB	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	FM	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	L8	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	EG	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	EQ	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	BB	301	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	BM	301	PEB	C3B-C4B-NB	3.53	115.19	110.05
29	RB	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	RM	203	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	cJ	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	cL	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	kF	202	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	kI	202	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	JA	202	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	JN	202	PEB	CAB-C3B-C4B	3.53	131.26	125.01
29	KG	201	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	KQ	201	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	a7	202	PEB	C3B-C4B-NB	3.53	115.18	110.05
29	a9	202	PEB	C3B-C4B-NB	3.53	115.18	110.05
29	EJ	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	eJ	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	EL	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	eL	202	PEB	CMB-C2B-C1B	3.53	130.50	125.06
29	AG	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	AQ	201	PEB	C2A-C1A-NA	3.53	111.32	108.27
29	ZB	203	PEB	CAB-C3B-C4B	3.53	131.25	125.01
29	ZM	203	PEB	CAB-C3B-C4B	3.53	131.25	125.01
29	UF	202	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	UI	202	PEB	C1B-C2B-C3B	-3.53	102.45	106.51
29	BC	202	PEB	C4B-C3B-C2B	-3.53	102.88	106.78
29	BE	202	PEB	C4B-C3B-C2B	-3.53	102.88	106.78
29	UR	202	PEB	C3D-C4D-ND	3.53	114.18	107.26
29	OR	202	PEB	CHC-C4C-C3C	-3.53	124.32	130.34
31	FF	1001	CYC	CAB-C3B-C2B	3.53	133.56	127.53
31	FI	1001	CYC	CAB-C3B-C2B	3.53	133.56	127.53
29	dF	203	PEB	C3D-C4D-ND	3.53	114.18	107.26
29	dI	203	PEB	C3D-C4D-ND	3.53	114.18	107.26
29	CG	201	PEB	CHC-C4C-C3C	-3.53	124.32	130.34
29	CQ	201	PEB	CHC-C4C-C3C	-3.53	124.32	130.34
31	LF	1001	CYC	CAB-C3B-C2B	3.53	133.56	127.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	LI	1001	CYC	CAB-C3B-C2B	3.53	133.56	127.53
29	KC	203	PEB	C2A-C1A-NA	3.53	111.31	108.27
29	KE	203	PEB	C2A-C1A-NA	3.53	111.31	108.27
29	AJ	203	PEB	C3B-C4B-NB	3.53	115.18	110.05
29	AL	203	PEB	C3B-C4B-NB	3.53	115.18	110.05
31	EF	1001	CYC	C4A-C3A-C2A	-3.53	102.46	106.51
31	EI	1001	CYC	C4A-C3A-C2A	-3.53	102.46	106.51
29	EJ	202	PEB	C1B-C2B-C3B	-3.53	102.46	106.51
29	EL	202	PEB	C1B-C2B-C3B	-3.53	102.46	106.51
30	AF	303	PUB	OA-C1A-NA	-3.53	120.71	125.93
30	AI	303	PUB	OA-C1A-NA	-3.53	120.71	125.93
29	ZJ	202	PEB	C3B-C4B-NB	3.53	115.18	110.05
29	ZL	202	PEB	C3B-C4B-NB	3.53	115.18	110.05
29	EA	201	PEB	C4B-C3B-C2B	-3.53	102.88	106.78
29	EN	201	PEB	C4B-C3B-C2B	-3.53	102.88	106.78
29	LG	202	PEB	OD-C4D-ND	-3.52	120.71	125.93
29	LQ	201	PEB	OD-C4D-ND	-3.52	120.71	125.93
29	mB	203	PEB	CAB-C3B-C4B	3.52	131.25	125.01
29	mM	203	PEB	CAB-C3B-C4B	3.52	131.25	125.01
31	yP	1001	CYC	CMB-C2B-C1B	3.52	128.57	124.17
31	CF	1001	CYC	C4A-C3A-C2A	-3.52	102.46	106.51
31	CI	1001	CYC	C4A-C3A-C2A	-3.52	102.46	106.51
29	uJ	201	PEB	C3B-C4B-NB	3.52	115.18	110.05
29	uL	201	PEB	C3B-C4B-NB	3.52	115.18	110.05
29	sJ	202	PEB	CMB-C2B-C1B	3.52	130.49	125.06
29	sL	202	PEB	CMB-C2B-C1B	3.52	130.49	125.06
29	UJ	202	PEB	C1B-C2B-C3B	-3.52	102.46	106.51
29	UL	202	PEB	C1B-C2B-C3B	-3.52	102.46	106.51
31	MF	1001	CYC	CHA-C1A-NA	-3.52	123.94	128.83
31	MI	1001	CYC	CHA-C1A-NA	-3.52	123.94	128.83
29	wL	301	PEB	C2A-C1A-NA	3.52	111.31	108.27
29	IG	201	PEB	C1B-C2B-C3B	-3.52	102.46	106.51
29	IQ	201	PEB	C1B-C2B-C3B	-3.52	102.46	106.51
31	KF	1001	CYC	CHA-C1A-NA	-3.52	123.94	128.83
31	H1	1001	CYC	C2B-C1B-NB	3.52	112.14	106.99
29	U2	202	PEB	C3D-C4D-ND	3.52	114.17	107.26
29	a1	201	PEB	OA-C1A-C2A	-3.52	123.37	126.17
29	aK	201	PEB	OA-C1A-C2A	-3.52	123.37	126.17
29	MQ	407	PEB	OA-C1A-C2A	-3.52	123.37	126.17
29	d1	202	PEB	C4B-C3B-C2B	-3.52	102.89	106.78
29	dK	202	PEB	C4B-C3B-C2B	-3.52	102.89	106.78
31	H7	1001	CYC	C1A-C2A-C3A	-3.52	102.89	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	H9	1001	CYC	C1A-C2A-C3A	-3.52	102.89	106.78
31	L9	1001	CYC	C1A-C2A-C3A	-3.52	102.89	106.78
29	I5	201	PEB	CHC-C1D-ND	-3.52	109.86	113.95
31	JF	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
31	JI	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
29	LQ	202	PEB	CHA-C4A-NA	-3.52	121.02	125.20
29	XB	202	PEB	CAB-C3B-C4B	3.52	131.24	125.01
29	XM	202	PEB	CAB-C3B-C4B	3.52	131.24	125.01
29	iJ	202	PEB	CMB-C2B-C1B	3.52	130.49	125.06
29	iL	202	PEB	CMB-C2B-C1B	3.52	130.49	125.06
29	C5	201	PEB	CHC-C1D-ND	-3.52	109.86	113.95
29	sJ	202	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	sL	202	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
31	FF	1001	CYC	C4D-CHA-C1A	3.52	133.01	128.81
31	FI	1001	CYC	C4D-CHA-C1A	3.52	133.01	128.81
29	XJ	202	PEB	C3B-C4B-NB	3.52	115.17	110.05
29	XL	202	PEB	C3B-C4B-NB	3.52	115.17	110.05
29	m1	201	PEB	OA-C1A-C2A	-3.52	123.38	126.17
29	mK	201	PEB	OA-C1A-C2A	-3.52	123.38	126.17
29	I8	201	PEB	CHC-C1D-ND	-3.52	109.86	113.95
29	KJ	202	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	KL	202	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
31	HF	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
31	HI	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
29	N3	203	PEB	C3B-C4B-NB	3.52	115.17	110.05
29	WR	201	PEB	C2A-C1A-NA	3.52	111.31	108.27
29	TB	203	PEB	CAB-C3B-C4B	3.52	131.23	125.01
29	TM	203	PEB	CAB-C3B-C4B	3.52	131.23	125.01
31	NF	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
31	NI	1001	CYC	CAB-C3B-C2B	3.52	133.55	127.53
29	WJ	203	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	WL	203	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	xJ	301	PEB	C2A-C1A-NA	3.52	111.31	108.27
29	OF	201	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	OI	201	PEB	C1B-C2B-C3B	-3.52	102.47	106.51
29	cJ	201	PEB	CBC-CAC-C2C	-3.52	106.62	112.62
29	cL	201	PEB	CBC-CAC-C2C	-3.52	106.62	112.62
29	g1	201	PEB	OA-C1A-C2A	-3.52	123.38	126.17
29	gK	201	PEB	OA-C1A-C2A	-3.52	123.38	126.17
29	BJ	202	PEB	C3B-C4B-NB	3.52	115.16	110.05
29	BL	202	PEB	C3B-C4B-NB	3.52	115.16	110.05
29	M2	201	PEB	C2A-C1A-NA	3.52	111.30	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DK	1002	PEB	OD-C4D-ND	-3.52	120.72	125.93
29	AB	303	PEB	C2A-C1A-NA	3.51	111.30	108.27
29	oJ	201	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	uJ	202	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	oL	201	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	uL	202	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	W1	202	PEB	C4B-C3B-C2B	-3.51	102.89	106.78
29	WK	202	PEB	C4B-C3B-C2B	-3.51	102.89	106.78
29	iJ	202	PEB	C1B-C2B-C3B	-3.51	102.47	106.51
29	iL	202	PEB	C1B-C2B-C3B	-3.51	102.47	106.51
29	IC	202	PEB	C2A-C1A-NA	3.51	111.30	108.27
29	IE	202	PEB	C2A-C1A-NA	3.51	111.30	108.27
29	KJ	201	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	KL	201	PEB	CBC-CAC-C2C	-3.51	106.62	112.62
29	O2	201	PEB	C2A-C1A-NA	3.51	111.30	108.27
29	WJ	203	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	kJ	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	WL	203	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	kL	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	Y7	202	PEB	C3B-C4B-NB	3.51	115.16	110.05
29	Y9	202	PEB	C3B-C4B-NB	3.51	115.16	110.05
29	KG	201	PEB	CHC-C4C-C3C	-3.51	124.35	130.34
29	KQ	201	PEB	CHC-C4C-C3C	-3.51	124.35	130.34
29	eJ	201	PEB	CBC-CAC-C2C	-3.51	106.63	112.62
29	eL	201	PEB	CBC-CAC-C2C	-3.51	106.63	112.62
29	h1	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	hK	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	YJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	cJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	YL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	cL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	MG	405	PEB	OA-C1A-C2A	-3.51	123.38	126.17
31	CF	1001	CYC	CHA-C1A-NA	-3.51	123.96	128.83
31	CI	1001	CYC	CHA-C1A-NA	-3.51	123.96	128.83
29	m7	202	PEB	C3B-C4B-NB	3.51	115.16	110.05
29	m9	202	PEB	C3B-C4B-NB	3.51	115.16	110.05
29	V2	201	PEB	CHA-C1B-NB	-3.51	117.59	124.93
29	GJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	mJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	GL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	mL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	R7	202	PEB	C3B-C4B-NB	3.51	115.15	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	R9	202	PEB	C3B-C4B-NB	3.51	115.15	110.05
29	H1	1002	PEB	OD-C4D-ND	-3.51	120.73	125.93
29	VR	201	PEB	CHA-C1B-NB	-3.51	117.59	124.93
29	oJ	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	oL	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	OR	201	PEB	C2A-C1A-NA	3.51	111.30	108.27
29	c1	201	PEB	OA-C1A-C2A	-3.51	123.38	126.17
29	cK	201	PEB	OA-C1A-C2A	-3.51	123.38	126.17
29	YJ	201	PEB	CBC-CAC-C2C	-3.51	106.63	112.62
29	YL	201	PEB	CBC-CAC-C2C	-3.51	106.63	112.62
29	AJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	AL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
31	EF	1001	CYC	CHA-C1A-NA	-3.51	123.96	128.83
31	EI	1001	CYC	CHA-C1A-NA	-3.51	123.96	128.83
29	wL	301	PEB	CHC-C1D-ND	-3.51	109.87	113.95
31	L7	1001	CYC	C1A-C2A-C3A	-3.51	102.90	106.78
29	AJ	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	AL	202	PEB	CMB-C2B-C1B	3.51	130.47	125.06
29	A1	301	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	eJ	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	AK	301	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	eL	202	PEB	C1B-C2B-C3B	-3.51	102.48	106.51
29	Q1	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	S1	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	QK	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	SK	202	PEB	C4B-C3B-C2B	-3.51	102.90	106.78
29	AJ	201	PEB	CBC-CAC-C2C	-3.51	106.64	112.62
29	AL	201	PEB	CBC-CAC-C2C	-3.51	106.64	112.62
29	IG	201	PEB	CHC-C4C-C3C	-3.51	124.36	130.34
29	IQ	201	PEB	CHC-C4C-C3C	-3.51	124.36	130.34
30	A1	304	PUB	CHA-C1B-C2B	-3.51	124.36	130.34
30	AK	304	PUB	CHA-C1B-C2B	-3.51	124.36	130.34
29	g7	202	PEB	C3B-C4B-NB	3.51	115.15	110.05
29	g9	202	PEB	C3B-C4B-NB	3.51	115.15	110.05
29	NO	203	PEB	C3B-C4B-NB	3.51	115.15	110.05
29	C8	201	PEB	CHC-C1D-ND	-3.51	109.88	113.95
29	WJ	202	PEB	CBC-CAC-C2C	-3.50	106.64	112.62
29	WL	202	PEB	CBC-CAC-C2C	-3.50	106.64	112.62
29	e7	202	PEB	C3B-C4B-NB	3.50	115.15	110.05
29	e9	202	PEB	C3B-C4B-NB	3.50	115.15	110.05
29	W2	202	PEB	C3D-C4D-ND	3.50	114.14	107.26
29	IG	201	PEB	C2A-C1A-NA	3.50	111.29	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AM	303	PEB	C2A-C1A-NA	3.50	111.29	108.27
29	IQ	201	PEB	C2A-C1A-NA	3.50	111.29	108.27
29	EG	201	PEB	CHC-C4C-C3C	-3.50	124.36	130.34
29	EQ	201	PEB	CHC-C4C-C3C	-3.50	124.36	130.34
31	J7	1001	CYC	C1A-C2A-C3A	-3.50	102.90	106.78
29	UJ	202	PEB	CMB-C2B-C1B	3.50	130.46	125.06
29	UL	202	PEB	CMB-C2B-C1B	3.50	130.46	125.06
29	KA	202	PEB	C3B-C4B-NB	3.50	115.15	110.05
29	KN	202	PEB	C3B-C4B-NB	3.50	115.15	110.05
29	L5	201	PEB	C2A-C1A-NA	3.50	111.29	108.27
29	SJ	202	PEB	CMB-C2B-C1B	3.50	130.46	125.06
29	SL	202	PEB	CMB-C2B-C1B	3.50	130.46	125.06
29	O2	201	PEB	OA-C1A-C2A	-3.50	123.39	126.17
29	C3	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	I3	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	c7	202	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	c9	202	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	CO	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	IO	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
31	WP	1001	CYC	CMB-C2B-C1B	3.50	128.54	124.17
31	GF	1001	CYC	CHA-C1A-NA	-3.50	123.97	128.83
31	GI	1001	CYC	CHA-C1A-NA	-3.50	123.97	128.83
29	QR	202	PEB	C3D-C4D-ND	3.50	114.13	107.26
31	DF	1001	CYC	CAB-C3B-C2B	3.50	133.52	127.53
31	DI	1001	CYC	CAB-C3B-C2B	3.50	133.52	127.53
29	gJ	201	PEB	CBC-CAC-C2C	-3.50	106.64	112.62
29	gL	201	PEB	CBC-CAC-C2C	-3.50	106.64	112.62
29	M3	203	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	MO	203	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	O2	202	PEB	C3D-C4D-ND	3.50	114.13	107.26
29	K5	201	PEB	CHC-C1D-ND	-3.50	109.88	113.95
29	K8	201	PEB	CHC-C1D-ND	-3.50	109.88	113.95
29	wJ	301	PEB	CHC-C1D-ND	-3.50	109.88	113.95
29	sJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	sL	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	D1	1002	PEB	OD-C4D-ND	-3.50	120.74	125.93
29	NK	1002	PEB	OD-C4D-ND	-3.50	120.74	125.93
29	oJ	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
29	oL	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
29	b1	202	PEB	C4B-C3B-C2B	-3.50	102.91	106.78
29	bK	202	PEB	C4B-C3B-C2B	-3.50	102.91	106.78
29	UJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UL	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	Q2	202	PEB	C3D-C4D-ND	3.50	114.12	107.26
29	CA	202	PEB	OD-C4D-ND	-3.50	120.75	125.93
29	CN	202	PEB	OD-C4D-ND	-3.50	120.75	125.93
29	IJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	iJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	kJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	IL	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	iL	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	kL	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	MJ	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	ML	201	PEB	CBC-CAC-C2C	-3.50	106.65	112.62
29	j1	202	PEB	C4B-C3B-C2B	-3.50	102.91	106.78
29	N3	203	PEB	C4B-C3B-C2B	-3.50	102.91	106.78
29	jK	202	PEB	C4B-C3B-C2B	-3.50	102.91	106.78
29	HG	202	PEB	OD-C4D-ND	-3.50	120.75	125.93
29	HQ	202	PEB	OD-C4D-ND	-3.50	120.75	125.93
29	WR	201	PEB	OA-C1A-C2A	-3.50	123.39	126.17
29	SJ	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
29	SL	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
31	GF	1001	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
31	GI	1001	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
31	LF	1001	CYC	C4D-CHA-C1A	3.50	132.99	128.81
31	LI	1001	CYC	C4D-CHA-C1A	3.50	132.99	128.81
29	K3	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
29	KO	201	PEB	C3B-C4B-NB	3.50	115.14	110.05
31	IF	1001	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
31	II	1001	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
29	GA	202	PEB	CHA-C1B-NB	-3.50	117.62	124.93
29	GN	202	PEB	CHA-C1B-NB	-3.50	117.62	124.93
29	OJ	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
29	OL	202	PEB	C1B-C2B-C3B	-3.50	102.49	106.51
29	U1	203	PEB	C3B-C4B-NB	3.50	115.13	110.05
29	UK	203	PEB	C3B-C4B-NB	3.50	115.13	110.05
29	J3	203	PEB	CHC-C1D-ND	-3.50	109.89	113.95
29	JO	203	PEB	CHC-C1D-ND	-3.50	109.89	113.95
29	CJ	202	PEB	CMB-C2B-C1B	3.50	130.45	125.06
29	aJ	202	PEB	CMB-C2B-C1B	3.50	130.45	125.06
29	CL	202	PEB	CMB-C2B-C1B	3.50	130.45	125.06
29	aL	202	PEB	CMB-C2B-C1B	3.50	130.45	125.06
29	SJ	202	PEB	C3D-C4D-ND	3.49	114.12	107.26
29	SL	202	PEB	C3D-C4D-ND	3.49	114.12	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IA	202	PEB	CHA-C1B-NB	-3.49	117.62	124.93
29	IN	202	PEB	CHA-C1B-NB	-3.49	117.62	124.93
29	qJ	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	qL	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	mJ	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	uJ	203	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	mL	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	uL	203	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	W2	201	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	aJ	202	PEB	C3D-C4D-ND	3.49	114.11	107.26
29	aL	202	PEB	C3D-C4D-ND	3.49	114.11	107.26
29	OJ	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	OL	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	qJ	202	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	qL	202	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	CJ	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	CL	201	PEB	CBC-CAC-C2C	-3.49	106.66	112.62
29	G3	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	GO	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	SR	202	PEB	C3D-C4D-ND	3.49	114.11	107.26
29	JG	202	PEB	OD-C4D-ND	-3.49	120.76	125.93
29	JQ	202	PEB	OD-C4D-ND	-3.49	120.76	125.93
29	CA	202	PEB	CHA-C1B-NB	-3.49	117.63	124.93
29	CN	202	PEB	CHA-C1B-NB	-3.49	117.63	124.93
29	KJ	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	MJ	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	KL	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	ML	202	PEB	CMB-C2B-C1B	3.49	130.44	125.06
29	i7	202	PEB	C3B-C4B-NB	3.49	115.13	110.05
29	i9	202	PEB	C3B-C4B-NB	3.49	115.13	110.05
29	g7	202	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	g9	202	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	HC	202	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	HE	202	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	JG	203	PEB	CHA-C4A-NA	-3.49	121.06	125.20
31	N1	1001	CYC	C1B-C2B-C3B	-3.49	104.23	107.87
29	KA	202	PEB	CHA-C1B-NB	-3.49	117.63	124.93
29	KN	202	PEB	CHA-C1B-NB	-3.49	117.63	124.93
29	e1	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	eK	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	FG	202	PEB	OD-C4D-ND	-3.49	120.76	125.93
29	FQ	202	PEB	OD-C4D-ND	-3.49	120.76	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SF	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	lF	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	SI	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	II	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	c1	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	cK	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	fF	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	fI	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	S2	202	PEB	C3D-C4D-ND	3.49	114.10	107.26
29	I3	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	IO	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	MQ	403	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	QJ	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	QL	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	SJ	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	aJ	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	SL	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	aL	201	PEB	CBC-CAC-C2C	-3.49	106.67	112.62
29	IA	202	PEB	OD-C4D-ND	-3.49	120.76	125.93
29	IN	202	PEB	OD-C4D-ND	-3.49	120.76	125.93
29	A9	304	PEB	CMB-C2B-C1B	3.49	130.43	125.06
29	GJ	202	PEB	CMB-C2B-C1B	3.49	130.43	125.06
29	GL	202	PEB	CMB-C2B-C1B	3.49	130.43	125.06
29	Y1	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	YK	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	V1	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	VK	201	PEB	C1B-C2B-C3B	-3.49	102.50	106.51
29	M4	203	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	hF	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	hI	201	PEB	CHC-C4C-C3C	-3.49	124.39	130.34
29	Q2	201	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	AC	203	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	AE	203	PEB	C2A-C1A-NA	3.49	111.28	108.27
29	J1	1002	PEB	OD-C4D-ND	-3.49	120.77	125.93
29	JK	1002	PEB	OD-C4D-ND	-3.49	120.77	125.93
29	JQ	203	PEB	CHA-C4A-NA	-3.49	121.06	125.20
29	T1	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	i1	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	TK	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	iK	201	PEB	OA-C1A-C2A	-3.49	123.40	126.17
29	GJ	201	PEB	CBC-CAC-C2C	-3.48	106.67	112.62
29	GL	201	PEB	CBC-CAC-C2C	-3.48	106.67	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UJ	202	PEB	C3D-C4D-ND	3.48	114.10	107.26
29	UL	202	PEB	C3D-C4D-ND	3.48	114.10	107.26
29	A5	201	PEB	CHC-C1D-ND	-3.48	109.90	113.95
29	A8	201	PEB	CHC-C1D-ND	-3.48	109.90	113.95
29	mJ	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	mL	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	mJ	201	PEB	CBC-CAC-C2C	-3.48	106.67	112.62
29	mL	201	PEB	CBC-CAC-C2C	-3.48	106.67	112.62
29	aJ	202	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	aL	202	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	gJ	202	PEB	CMB-C2B-C1B	3.48	130.43	125.06
29	gL	202	PEB	CMB-C2B-C1B	3.48	130.43	125.06
29	KJ	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	KL	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	B3	203	PEB	CHC-C1D-ND	-3.48	109.90	113.95
29	BO	203	PEB	CHC-C1D-ND	-3.48	109.90	113.95
29	KC	201	PEB	C2A-C1A-NA	3.48	111.28	108.27
29	KE	201	PEB	C2A-C1A-NA	3.48	111.28	108.27
29	c1	203	PEB	OD-C4D-ND	-3.48	120.77	125.93
29	cK	203	PEB	OD-C4D-ND	-3.48	120.77	125.93
29	QJ	202	PEB	CMB-C2B-C1B	3.48	130.43	125.06
29	QL	202	PEB	CMB-C2B-C1B	3.48	130.43	125.06
29	l1	202	PEB	C3B-C4B-NB	3.48	115.11	110.05
29	lK	202	PEB	C3B-C4B-NB	3.48	115.11	110.05
29	EA	202	PEB	CHA-C1B-NB	-3.48	117.65	124.93
29	EN	202	PEB	CHA-C1B-NB	-3.48	117.65	124.93
29	qJ	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	qL	202	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	HK	1002	PEB	OD-C4D-ND	-3.48	120.77	125.93
29	g1	201	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	IJ	202	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	gK	201	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	IL	202	PEB	C1B-C2B-C3B	-3.48	102.51	106.51
29	UF	202	PEB	CHC-C4C-C3C	-3.48	124.40	130.34
29	UI	202	PEB	CHC-C4C-C3C	-3.48	124.40	130.34
29	WJ	203	PEB	C3D-C4D-ND	3.48	114.09	107.26
29	WL	203	PEB	C3D-C4D-ND	3.48	114.09	107.26
31	CF	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
31	CI	1001	CYC	C1B-C2B-C3B	-3.48	104.24	107.87
31	IF	1001	CYC	CHA-C1A-NA	-3.48	124.00	128.83
31	II	1001	CYC	CHA-C1A-NA	-3.48	124.00	128.83
29	a1	203	PEB	OD-C4D-ND	-3.48	120.77	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aK	203	PEB	OD-C4D-ND	-3.48	120.77	125.93
29	A3	202	PEB	OA-C1A-C2A	-3.48	123.41	126.17
29	AO	202	PEB	OA-C1A-C2A	-3.48	123.41	126.17
31	I1	1001	CYC	C2C-C1C-NC	3.48	111.27	108.27
31	NF	1001	CYC	C4D-CHA-C1A	3.48	132.97	128.81
31	NI	1001	CYC	C4D-CHA-C1A	3.48	132.97	128.81
29	IJ	202	PEB	CMB-C2B-C1B	3.48	130.42	125.06
29	IL	202	PEB	CMB-C2B-C1B	3.48	130.42	125.06
31	CK	1001	CYC	C2C-C1C-NC	3.48	111.27	108.27
29	YJ	202	PEB	CMB-C2B-C1B	3.48	130.42	125.06
29	YL	202	PEB	CMB-C2B-C1B	3.48	130.42	125.06
29	bF	201	PEB	CHC-C4C-C3C	-3.48	124.41	130.34
29	bI	201	PEB	CHC-C4C-C3C	-3.48	124.41	130.34
29	AA	202	PEB	CHA-C1B-NB	-3.48	117.66	124.93
29	AN	202	PEB	CHA-C1B-NB	-3.48	117.66	124.93
29	GA	202	PEB	OD-C4D-ND	-3.48	120.78	125.93
29	GN	202	PEB	OD-C4D-ND	-3.48	120.78	125.93
29	gJ	202	PEB	C1B-C2B-C3B	-3.48	102.52	106.51
29	gL	202	PEB	C1B-C2B-C3B	-3.48	102.52	106.51
29	QJ	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	eJ	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	QL	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	eL	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	cJ	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	cL	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	V1	201	PEB	OA-C1A-C2A	-3.48	123.41	126.17
29	VK	201	PEB	OA-C1A-C2A	-3.48	123.41	126.17
29	EJ	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	EL	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	P2	201	PEB	C1B-C2B-C3B	-3.48	102.52	106.51
29	wJ	302	PEB	CHC-C4C-C3C	-3.48	124.41	130.34
29	AJ	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	AL	202	PEB	C3D-C4D-ND	3.48	114.08	107.26
29	A1	301	PEB	CHC-C4C-C3C	-3.48	124.41	130.34
29	AK	301	PEB	CHC-C4C-C3C	-3.48	124.41	130.34
29	e1	203	PEB	OD-C4D-ND	-3.47	120.78	125.93
29	eK	203	PEB	OD-C4D-ND	-3.47	120.78	125.93
29	MR	202	PEB	C2A-C1A-NA	3.47	111.27	108.27
29	gJ	202	PEB	C3D-C4D-ND	3.47	114.08	107.26
29	gL	202	PEB	C3D-C4D-ND	3.47	114.08	107.26
29	d1	202	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	dK	202	PEB	C3B-C4B-NB	3.47	115.10	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	uJ	203	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	uL	203	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	D3	203	PEB	CHC-C1D-ND	-3.47	109.91	113.95
29	DO	203	PEB	CHC-C1D-ND	-3.47	109.91	113.95
29	DQ	203	PEB	CHA-C4A-NA	-3.47	121.08	125.20
29	M3	203	PEB	C4B-C3B-C2B	-3.47	102.94	106.78
29	MO	203	PEB	C4B-C3B-C2B	-3.47	102.94	106.78
29	IJ	202	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	IL	202	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	F3	203	PEB	CHC-C1D-ND	-3.47	109.92	113.95
29	FO	203	PEB	CHC-C1D-ND	-3.47	109.92	113.95
29	E3	201	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	EO	201	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	oJ	202	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	oL	202	PEB	C3D-C4D-ND	3.47	114.07	107.26
29	MR	201	PEB	C2A-C1A-NA	3.47	111.27	108.27
31	VP	1001	CYC	C1A-C2A-C3A	-3.47	102.94	106.78
29	b1	202	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	IA	202	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	bK	202	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	IN	202	PEB	C3B-C4B-NB	3.47	115.10	110.05
29	OJ	202	PEB	CMB-C2B-C1B	3.47	130.41	125.06
29	OL	202	PEB	CMB-C2B-C1B	3.47	130.41	125.06
29	EJ	201	PEB	CBC-CAC-C2C	-3.47	106.70	112.62
29	EL	201	PEB	CBC-CAC-C2C	-3.47	106.70	112.62
31	JF	1001	CYC	C4D-CHA-C1A	3.47	132.96	128.81
31	JI	1001	CYC	C4D-CHA-C1A	3.47	132.96	128.81
31	J9	1001	CYC	C1A-C2A-C3A	-3.47	102.94	106.78
31	F1	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
31	FK	1001	CYC	C1B-C2B-C3B	-3.47	104.25	107.87
29	E3	201	PEB	C1B-C2B-C3B	-3.47	102.52	106.51
29	EO	201	PEB	C1B-C2B-C3B	-3.47	102.52	106.51
29	f1	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	fK	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	uJ	203	PEB	C1B-C2B-C3B	-3.47	102.53	106.51
29	uL	203	PEB	C1B-C2B-C3B	-3.47	102.53	106.51
29	ZF	201	PEB	OA-C1A-C2A	-3.47	123.42	126.17
29	ZI	201	PEB	OA-C1A-C2A	-3.47	123.42	126.17
29	zJ	501	PEB	CHC-C4C-C3C	-3.47	124.42	130.34
30	MG	402	PUB	CHC-C1D-ND	-3.47	109.34	113.72
29	zL	501	PEB	CHC-C4C-C3C	-3.47	124.42	130.34
29	a1	201	PEB	C1B-C2B-C3B	-3.47	102.53	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aK	201	PEB	C1B-C2B-C3B	-3.47	102.53	106.51
29	iJ	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	iL	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	EA	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	EN	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	PR	201	PEB	C4B-C3B-C2B	-3.47	102.94	106.78
29	DO	202	PEB	C2A-C1A-NA	3.47	111.26	108.27
29	R1	203	PEB	OD-C4D-ND	-3.47	120.79	125.93
29	RK	203	PEB	OD-C4D-ND	-3.47	120.79	125.93
29	BQ	203	PEB	CHA-C4A-NA	-3.47	121.08	125.20
29	h1	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	A3	201	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	hK	202	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	AO	201	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	W1	202	PEB	C1B-C2B-C3B	-3.47	102.53	106.51
29	WK	202	PEB	C1B-C2B-C3B	-3.47	102.53	106.51
31	IK	1001	CYC	C2C-C1C-NC	3.47	111.26	108.27
29	DG	203	PEB	CHA-C4A-NA	-3.47	121.08	125.20
29	OJ	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	OL	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	G3	201	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	GO	201	PEB	C3B-C4B-NB	3.47	115.09	110.05
29	CJ	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	CL	202	PEB	C3D-C4D-ND	3.47	114.06	107.26
29	BG	203	PEB	CHA-C4A-NA	-3.47	121.08	125.20
29	B5	201	PEB	C2A-C1A-NA	3.46	111.26	108.27
29	MJ	202	PEB	C3D-C4D-ND	3.46	114.06	107.26
29	ML	202	PEB	C3D-C4D-ND	3.46	114.06	107.26
29	C3	201	PEB	C1B-C2B-C3B	-3.46	102.53	106.51
29	CO	201	PEB	C1B-C2B-C3B	-3.46	102.53	106.51
29	MQ	403	PEB	CHA-C1B-NB	-3.46	117.69	124.93
31	L1	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
31	LK	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
31	NK	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
29	Y1	201	PEB	C4B-C3B-C2B	-3.46	102.95	106.78
29	YK	201	PEB	C4B-C3B-C2B	-3.46	102.95	106.78
29	BB	301	PEB	CBC-CAC-C2C	3.46	118.53	112.62
29	BM	301	PEB	CBC-CAC-C2C	3.46	118.53	112.62
29	sJ	202	PEB	C3D-C4D-ND	3.46	114.05	107.26
29	sL	202	PEB	C3D-C4D-ND	3.46	114.05	107.26
29	N1	1002	PEB	OD-C4D-ND	-3.46	120.80	125.93
29	CA	202	PEB	C3B-C4B-NB	3.46	115.08	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CN	202	PEB	C3B-C4B-NB	3.46	115.08	110.05
29	QJ	202	PEB	C1B-C2B-C3B	-3.46	102.53	106.51
29	QL	202	PEB	C1B-C2B-C3B	-3.46	102.53	106.51
29	ZF	201	PEB	CHC-C4C-C3C	-3.46	124.43	130.34
29	ZI	201	PEB	CHC-C4C-C3C	-3.46	124.43	130.34
29	xJ	302	PEB	CHC-C4C-C3C	-3.46	124.43	130.34
29	A1	303	PEB	CMB-C2B-C1B	3.46	130.39	125.06
29	AK	303	PEB	CMB-C2B-C1B	3.46	130.39	125.06
29	EA	202	PEB	OD-C4D-ND	-3.46	120.80	125.93
29	EN	202	PEB	OD-C4D-ND	-3.46	120.80	125.93
29	L3	202	PEB	CHC-C1D-ND	-3.46	109.93	113.95
29	LO	202	PEB	CHC-C1D-ND	-3.46	109.93	113.95
29	MG	401	PEB	CHA-C1B-NB	-3.46	117.69	124.93
31	HK	1001	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
29	V2	202	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	RR	202	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	O1	202	PEB	C4B-C3B-C2B	-3.46	102.95	106.78
29	OK	202	PEB	C4B-C3B-C2B	-3.46	102.95	106.78
31	HF	1001	CYC	C4D-CHA-C1A	3.46	132.94	128.81
31	HI	1001	CYC	C4D-CHA-C1A	3.46	132.94	128.81
29	T1	202	PEB	OD-C4D-ND	-3.46	120.81	125.93
29	TK	202	PEB	OD-C4D-ND	-3.46	120.81	125.93
29	R7	202	PEB	C2A-C1A-NA	3.46	111.25	108.27
29	R9	202	PEB	C2A-C1A-NA	3.46	111.25	108.27
31	C1	1001	CYC	C2C-C1C-NC	3.46	111.25	108.27
29	YJ	202	PEB	C3D-C4D-ND	3.46	114.04	107.26
29	YL	202	PEB	C3D-C4D-ND	3.46	114.04	107.26
29	P1	201	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	CJ	202	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	PK	201	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	CL	202	PEB	C1B-C2B-C3B	-3.46	102.54	106.51
29	MB	201	PEB	C2A-C1A-NA	3.46	111.25	108.27
29	MM	201	PEB	C2A-C1A-NA	3.46	111.25	108.27
31	I1	1001	CYC	CHA-C1A-NA	-3.46	124.03	128.83
31	EK	1001	CYC	CHA-C1A-NA	-3.46	124.03	128.83
29	GJ	202	PEB	C3D-C4D-ND	3.46	114.04	107.26
29	GL	202	PEB	C3D-C4D-ND	3.46	114.04	107.26
29	AA	202	PEB	C3B-C4B-NB	3.46	115.08	110.05
29	AN	202	PEB	C3B-C4B-NB	3.46	115.08	110.05
29	m1	202	PEB	OD-C4D-ND	-3.46	120.81	125.93
29	mK	202	PEB	OD-C4D-ND	-3.46	120.81	125.93
29	i1	203	PEB	OD-C4D-ND	-3.46	120.81	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iK	203	PEB	OD-C4D-ND	-3.46	120.81	125.93
29	fF	201	PEB	CHC-C4C-C3C	-3.46	124.44	130.34
29	fI	201	PEB	CHC-C4C-C3C	-3.46	124.44	130.34
29	LG	203	PEB	CHA-C4A-NA	-3.46	121.10	125.20
29	Q1	202	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	j1	202	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	QK	202	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	jK	202	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	Y1	202	PEB	OD-C4D-ND	-3.45	120.81	125.93
29	YK	202	PEB	OD-C4D-ND	-3.45	120.81	125.93
29	Z1	203	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	ZK	203	PEB	C1B-C2B-C3B	-3.45	102.54	106.51
29	Q1	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	QK	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	H3	203	PEB	CHC-C1D-ND	-3.45	109.94	113.95
29	HO	203	PEB	CHC-C1D-ND	-3.45	109.94	113.95
29	HK	1002	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	Z1	203	PEB	C4B-C3B-C2B	-3.45	102.96	106.78
29	ZK	203	PEB	C4B-C3B-C2B	-3.45	102.96	106.78
29	AA	202	PEB	OD-C4D-ND	-3.45	120.81	125.93
29	AN	202	PEB	OD-C4D-ND	-3.45	120.81	125.93
31	IF	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
31	II	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
29	W2	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
31	YP	1000	CYC	OC-C1C-C2C	-3.45	123.43	126.17
29	a1	201	PEB	C4B-C3B-C2B	-3.45	102.96	106.78
29	aK	201	PEB	C4B-C3B-C2B	-3.45	102.96	106.78
29	jF	201	PEB	CHC-C4C-C3C	-3.45	124.45	130.34
29	jI	201	PEB	CHC-C4C-C3C	-3.45	124.45	130.34
29	K3	201	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	KO	201	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
30	MN	403	PUB	OD-C4D-C3D	-3.45	124.30	128.04
29	FC	202	PEB	C2A-C1A-NA	3.45	111.25	108.27
29	FE	202	PEB	C2A-C1A-NA	3.45	111.25	108.27
29	GA	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	GN	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	P1	203	PEB	OD-C4D-ND	-3.45	120.82	125.93
29	PK	203	PEB	OD-C4D-ND	-3.45	120.82	125.93
29	QF	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
29	QI	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
29	i7	202	PEB	C2A-C1A-NA	3.45	111.25	108.27
29	i9	202	PEB	C2A-C1A-NA	3.45	111.25	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k1	201	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	kK	201	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	S1	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
29	SK	202	PEB	C3B-C4B-NB	3.45	115.07	110.05
31	J1	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
31	JK	1001	CYC	C1B-C2B-C3B	-3.45	104.27	107.87
29	WF	201	PEB	CHC-C4C-C3C	-3.45	124.45	130.34
29	WI	201	PEB	CHC-C4C-C3C	-3.45	124.45	130.34
29	k1	201	PEB	C4B-C3B-C2B	-3.45	102.97	106.78
29	kK	201	PEB	C4B-C3B-C2B	-3.45	102.97	106.78
29	MJ	202	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	ML	202	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	MN	405	PEB	C2A-C1A-NA	3.45	111.25	108.27
29	e1	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
29	Q2	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
29	eK	201	PEB	OA-C1A-C2A	-3.45	123.43	126.17
29	k1	203	PEB	OD-C4D-ND	-3.45	120.82	125.93
29	kK	203	PEB	OD-C4D-ND	-3.45	120.82	125.93
29	O1	202	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	OK	202	PEB	C1B-C2B-C3B	-3.45	102.55	106.51
29	dF	202	PEB	CHC-C4C-C3C	-3.45	124.46	130.34
29	dI	202	PEB	CHC-C4C-C3C	-3.45	124.46	130.34
29	A7	304	PEB	CHA-C1B-NB	-3.45	117.72	124.93
31	CF	1001	CYC	C2C-C1C-NC	3.45	111.24	108.27
31	CI	1001	CYC	C2C-C1C-NC	3.45	111.24	108.27
29	I4	203	PEB	C4B-C3B-C2B	-3.45	102.97	106.78
30	A1	304	PUB	C1C-C2C-C3C	-3.45	102.97	106.78
30	AK	304	PUB	C1C-C2C-C3C	-3.45	102.97	106.78
29	JC	202	PEB	CMB-C2B-C1B	3.45	130.37	125.06
29	JE	202	PEB	CMB-C2B-C1B	3.45	130.37	125.06
29	KA	202	PEB	OD-C4D-ND	-3.45	120.83	125.93
29	KN	202	PEB	OD-C4D-ND	-3.45	120.83	125.93
29	kJ	202	PEB	C3D-C4D-ND	3.44	114.02	107.26
29	kL	202	PEB	C3D-C4D-ND	3.44	114.02	107.26
29	b1	202	PEB	C1B-C2B-C3B	-3.44	102.55	106.51
29	bK	202	PEB	C1B-C2B-C3B	-3.44	102.55	106.51
29	a7	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	a9	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	A9	304	PEB	CHA-C1B-NB	-3.44	117.73	124.93
29	R2	202	PEB	C1B-C2B-C3B	-3.44	102.55	106.51
29	VR	202	PEB	C4B-C3B-C2B	-3.44	102.97	106.78
29	SB	201	PEB	C2A-C1A-NA	3.44	111.24	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SM	201	PEB	C2A-C1A-NA	3.44	111.24	108.27
30	MQ	404	PUB	CHC-C1D-ND	-3.44	109.37	113.72
31	KF	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
29	J1	1002	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	j1	202	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	JK	1002	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	jK	202	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	MG	401	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	MA	405	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	OF	201	PEB	CHC-C4C-C3C	-3.44	124.47	130.34
29	OI	201	PEB	CHC-C4C-C3C	-3.44	124.47	130.34
29	A7	301	PEB	CBC-CAC-C2C	-3.44	106.75	112.62
29	A9	301	PEB	CBC-CAC-C2C	-3.44	106.75	112.62
31	E1	1001	CYC	CHA-C1A-NA	-3.44	124.05	128.83
29	O1	202	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	OK	202	PEB	C3B-C4B-NB	3.44	115.06	110.05
29	V7	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	V9	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	X2	201	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	A3	201	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	AO	201	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	TR	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	XR	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	xL	302	PEB	CHC-C4C-C3C	-3.44	124.47	130.34
29	NO	203	PEB	C4B-C3B-C2B	-3.44	102.98	106.78
29	S1	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	SK	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
31	DF	1001	CYC	C4D-CHA-C1A	3.44	132.92	128.81
31	DI	1001	CYC	C4D-CHA-C1A	3.44	132.92	128.81
29	U1	203	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	UK	203	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
31	MF	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
31	MI	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
29	W1	202	PEB	C3B-C4B-NB	3.44	115.05	110.05
29	WK	202	PEB	C3B-C4B-NB	3.44	115.05	110.05
29	E3	202	PEB	OA-C1A-C2A	-3.44	123.44	126.17
29	EO	202	PEB	OA-C1A-C2A	-3.44	123.44	126.17
29	V1	203	PEB	OD-C4D-ND	-3.44	120.84	125.93
29	VK	203	PEB	OD-C4D-ND	-3.44	120.84	125.93
29	P7	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	P9	202	PEB	C2A-C1A-NA	3.44	111.24	108.27
29	SR	201	PEB	CHC-C1D-ND	-3.44	109.96	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	D1	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
31	KI	1001	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
29	wJ	303	PEB	CHC-C4C-C3C	-3.44	124.48	130.34
29	J5	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	J8	202	PEB	C1B-C2B-C3B	-3.44	102.56	106.51
29	V2	202	PEB	C4B-C3B-C2B	-3.44	102.98	106.78
29	NR	202	PEB	C4B-C3B-C2B	-3.44	102.98	106.78
29	N2	202	PEB	C1B-C2B-C3B	-3.43	102.56	106.51
29	R1	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	RK	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	wL	302	PEB	CHC-C4C-C3C	-3.43	124.48	130.34
29	F5	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	F8	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	QF	201	PEB	CHC-C4C-C3C	-3.43	124.48	130.34
29	QI	201	PEB	CHC-C4C-C3C	-3.43	124.48	130.34
29	d1	202	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	dK	202	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	P1	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	MG	401	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	PK	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	e7	202	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	e9	202	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	IB	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	IM	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	EG	201	PEB	C3B-C4B-NB	3.43	115.04	110.05
29	EQ	201	PEB	C3B-C4B-NB	3.43	115.04	110.05
29	R1	201	PEB	OA-C1A-C2A	-3.43	123.44	126.17
29	RK	201	PEB	OA-C1A-C2A	-3.43	123.44	126.17
29	m1	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	mK	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	yJ	301	PEB	OD-C4D-ND	-3.43	120.85	125.93
29	yL	301	PEB	OD-C4D-ND	-3.43	120.85	125.93
31	GF	1001	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
31	GI	1001	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
29	H5	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	T1	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
29	TK	201	PEB	C4B-C3B-C2B	-3.43	102.98	106.78
31	xP	1001	CYC	C1A-C2A-C3A	-3.43	102.98	106.78
29	P1	201	PEB	OA-C1A-C2A	-3.43	123.44	126.17
29	PK	201	PEB	OA-C1A-C2A	-3.43	123.44	126.17
29	Y1	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	YK	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D3	202	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	lF	201	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	lI	201	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	R1	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	lI	202	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	RK	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	lK	202	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	k1	201	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	kK	201	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	V1	201	PEB	C4B-C3B-C2B	-3.43	102.99	106.78
29	i1	201	PEB	C4B-C3B-C2B	-3.43	102.99	106.78
29	VK	201	PEB	C4B-C3B-C2B	-3.43	102.99	106.78
29	iK	201	PEB	C4B-C3B-C2B	-3.43	102.99	106.78
29	g1	203	PEB	OD-C4D-ND	-3.43	120.85	125.93
29	gK	203	PEB	OD-C4D-ND	-3.43	120.85	125.93
29	DC	202	PEB	CMB-C2B-C1B	3.43	130.34	125.06
29	DE	202	PEB	CMB-C2B-C1B	3.43	130.34	125.06
31	GK	1001	CYC	C2C-C1C-NC	3.43	111.23	108.27
29	XR	202	PEB	C4B-C3B-C2B	-3.43	102.99	106.78
29	H1	1002	PEB	C3B-C4B-NB	3.43	115.03	110.05
31	EF	1001	CYC	C1B-C2B-C3B	-3.43	104.30	107.87
31	EI	1001	CYC	C1B-C2B-C3B	-3.43	104.30	107.87
29	fB	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	fM	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
31	KF	1001	CYC	C2C-C1C-NC	3.43	111.23	108.27
29	AG	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	CG	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	AQ	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	CQ	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	T1	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	TK	201	PEB	C1B-C2B-C3B	-3.43	102.57	106.51
29	I3	202	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	IO	202	PEB	OA-C1A-C2A	-3.43	123.45	126.17
29	F3	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	FO	201	PEB	C3B-C4B-NB	3.43	115.03	110.05
29	KB	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	WB	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	KM	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	WM	201	PEB	C2A-C1A-NA	3.43	111.23	108.27
29	BC	203	PEB	CMB-C2B-C1B	3.43	130.34	125.06
29	BE	203	PEB	CMB-C2B-C1B	3.43	130.34	125.06
29	MA	401	PEB	OD-C4D-ND	-3.43	120.86	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kF	201	PEB	OD-C4D-ND	-3.43	120.86	125.93
29	kI	201	PEB	OD-C4D-ND	-3.43	120.86	125.93
29	HQ	203	PEB	CHA-C4A-NA	-3.42	121.13	125.20
30	MA	403	PUB	OD-C4D-C3D	-3.42	124.32	128.04
29	G5	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	Y7	202	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	Y9	202	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	UB	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	UM	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	Z1	203	PEB	C3B-C4B-NB	3.42	115.03	110.05
29	ZK	203	PEB	C3B-C4B-NB	3.42	115.03	110.05
31	IK	1001	CYC	CHA-C1A-NA	-3.42	124.08	128.83
29	K3	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	KO	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	wL	303	PEB	CHC-C4C-C3C	-3.42	124.50	130.34
29	f1	201	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	fK	201	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	EB	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	EM	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
31	D1	1003	CYC	C2C-C1C-NC	3.42	111.22	108.27
29	LC	202	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
29	LE	202	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
29	e1	201	PEB	C4B-C3B-C2B	-3.42	103.00	106.78
29	eK	201	PEB	C4B-C3B-C2B	-3.42	103.00	106.78
29	MN	401	PEB	OD-C4D-ND	-3.42	120.86	125.93
29	i1	201	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
29	iK	201	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
29	EG	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	GG	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	EQ	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	GQ	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	LC	203	PEB	CMB-C2B-C1B	3.42	130.33	125.06
29	LE	203	PEB	CMB-C2B-C1B	3.42	130.33	125.06
31	H1	1001	CYC	C1B-C2B-C3B	-3.42	104.30	107.87
29	S2	201	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	BC	202	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	BE	202	PEB	C2A-C1A-NA	3.42	111.22	108.27
29	AG	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	AQ	202	PEB	OA-C1A-C2A	-3.42	123.45	126.17
29	I3	202	PEB	OD-C4D-ND	-3.42	120.86	125.93
29	IO	202	PEB	OD-C4D-ND	-3.42	120.86	125.93
29	KC	201	PEB	C1B-C2B-C3B	-3.42	102.58	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KE	201	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
30	MG	403	PUB	CAC-C2C-C3C	-3.42	121.51	127.88
29	FG	203	PEB	CHA-C4A-NA	-3.42	121.14	125.20
29	KG	201	PEB	C3B-C4B-NB	3.42	115.02	110.05
29	KQ	201	PEB	C3B-C4B-NB	3.42	115.02	110.05
29	VR	202	PEB	C1B-C2B-C3B	-3.42	102.58	106.51
31	K1	1001	CYC	C2C-C1C-NC	3.42	111.22	108.27
31	EF	1001	CYC	C2C-C1C-NC	3.42	111.22	108.27
31	EI	1001	CYC	C2C-C1C-NC	3.42	111.22	108.27
31	KK	1001	CYC	C2C-C1C-NC	3.42	111.22	108.27
29	C3	202	PEB	OA-C1A-C2A	-3.42	123.46	126.17
29	CO	202	PEB	OA-C1A-C2A	-3.42	123.46	126.17
29	F1	1002	PEB	C3B-C4B-NB	3.42	115.02	110.05
29	FK	1002	PEB	C3B-C4B-NB	3.42	115.02	110.05
29	FC	203	PEB	CMB-C2B-C1B	3.42	130.32	125.06
29	FE	203	PEB	CMB-C2B-C1B	3.42	130.32	125.06
31	D1	1003	CYC	CHA-C1A-NA	-3.42	124.09	128.83
29	P2	201	PEB	C4B-C3B-C2B	-3.42	103.00	106.78
29	T2	202	PEB	C4B-C3B-C2B	-3.42	103.00	106.78
29	A3	202	PEB	OD-C4D-ND	-3.42	120.87	125.93
29	AO	202	PEB	OD-C4D-ND	-3.42	120.87	125.93
29	N2	202	PEB	C4B-C3B-C2B	-3.41	103.00	106.78
29	NR	202	PEB	C1B-C2B-C3B	-3.41	102.59	106.51
30	QB	201	PUB	CHA-C4A-NA	-3.41	109.98	113.95
30	QM	201	PUB	CHA-C4A-NA	-3.41	109.98	113.95
29	T7	202	PEB	C2A-C1A-NA	3.41	111.22	108.27
29	T9	202	PEB	C2A-C1A-NA	3.41	111.22	108.27
29	J3	201	PEB	C3B-C4B-NB	3.41	115.02	110.05
29	JO	201	PEB	C3B-C4B-NB	3.41	115.02	110.05
29	I8	203	PEB	CHC-C4C-C3C	-3.41	124.52	130.34
29	m7	202	PEB	C2A-C1A-NA	3.41	111.22	108.27
29	m9	202	PEB	C2A-C1A-NA	3.41	111.22	108.27
29	CB	201	PEB	C2A-C1A-NA	3.41	111.22	108.27
29	CM	201	PEB	C2A-C1A-NA	3.41	111.22	108.27
31	CK	1001	CYC	CHA-C1A-NA	-3.41	124.09	128.83
29	m1	201	PEB	C1B-C2B-C3B	-3.41	102.59	106.51
29	mK	201	PEB	C1B-C2B-C3B	-3.41	102.59	106.51
29	HG	203	PEB	CHA-C4A-NA	-3.41	121.15	125.20
29	T7	202	PEB	C3D-C4D-ND	3.41	113.95	107.26
29	T9	202	PEB	C3D-C4D-ND	3.41	113.95	107.26
29	E3	202	PEB	OD-C4D-ND	-3.41	120.88	125.93
29	EO	202	PEB	OD-C4D-ND	-3.41	120.88	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	yJ	301	PEB	CBA-CAA-C3A	-3.41	105.88	113.47
29	yL	301	PEB	CBA-CAA-C3A	-3.41	105.88	113.47
29	GG	201	PEB	C3B-C4B-NB	3.41	115.01	110.05
29	GQ	201	PEB	C3B-C4B-NB	3.41	115.01	110.05
29	hF	201	PEB	OA-C1A-C2A	-3.41	123.46	126.17
29	hI	201	PEB	OA-C1A-C2A	-3.41	123.46	126.17
29	c1	201	PEB	CHC-C1D-ND	-3.41	109.99	113.95
29	cK	201	PEB	CHC-C1D-ND	-3.41	109.99	113.95
29	jB	201	PEB	C2A-C1A-NA	3.41	111.21	108.27
29	jM	201	PEB	C2A-C1A-NA	3.41	111.21	108.27
29	IG	201	PEB	C3B-C4B-NB	3.41	115.01	110.05
29	IQ	201	PEB	C3B-C4B-NB	3.41	115.01	110.05
29	CG	202	PEB	OA-C1A-C2A	-3.41	123.46	126.17
29	CQ	202	PEB	OA-C1A-C2A	-3.41	123.46	126.17
29	FQ	203	PEB	CHA-C4A-NA	-3.41	121.15	125.20
29	h1	202	PEB	C1B-C2B-C3B	-3.41	102.59	106.51
29	hK	202	PEB	C1B-C2B-C3B	-3.41	102.59	106.51
29	yJ	301	PEB	CHC-C1D-ND	-3.41	109.99	113.95
29	yL	301	PEB	CHC-C1D-ND	-3.41	109.99	113.95
29	a7	202	PEB	C3D-C4D-ND	3.41	113.94	107.26
29	a9	202	PEB	C3D-C4D-ND	3.41	113.94	107.26
29	PR	201	PEB	C1B-C2B-C3B	-3.41	102.60	106.51
31	M1	1001	CYC	C2C-C1C-NC	3.41	111.21	108.27
31	MK	1001	CYC	C2C-C1C-NC	3.41	111.21	108.27
30	MQ	405	PUB	CAC-C2C-C3C	-3.41	121.53	127.88
29	c7	202	PEB	C3D-C4D-ND	3.41	113.94	107.26
29	c9	202	PEB	C3D-C4D-ND	3.41	113.94	107.26
29	MA	404	PEB	OA-C1A-C2A	-3.41	123.47	126.17
29	C3	202	PEB	OD-C4D-ND	-3.41	120.89	125.93
29	CO	202	PEB	OD-C4D-ND	-3.41	120.89	125.93
29	RF	201	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	RI	201	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	bF	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	bI	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	xL	303	PEB	CHC-C4C-C3C	-3.40	124.53	130.34
31	WP	1001	CYC	OC-C1C-C2C	-3.40	123.47	126.17
29	DK	1002	PEB	C3B-C4B-NB	3.40	115.00	110.05
29	f1	202	PEB	C1B-C2B-C3B	-3.40	102.60	106.51
29	fK	202	PEB	C1B-C2B-C3B	-3.40	102.60	106.51
29	G8	201	PEB	C2A-C1A-NA	3.40	111.21	108.27
29	g1	201	PEB	C4B-C3B-C2B	-3.40	103.02	106.78
29	X2	201	PEB	C4B-C3B-C2B	-3.40	103.02	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gK	201	PEB	C4B-C3B-C2B	-3.40	103.02	106.78
29	dF	202	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	dI	202	PEB	OA-C1A-C2A	-3.40	123.47	126.17
31	K1	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
31	KK	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
29	T2	202	PEB	C1B-C2B-C3B	-3.40	102.60	106.51
29	g1	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
29	gK	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
31	M1	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
31	MK	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
29	D1	1002	PEB	C3B-C4B-NB	3.40	115.00	110.05
29	P7	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	k7	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	P9	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	k9	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	S1	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	SK	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	g7	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	g9	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	eJ	202	PEB	CHC-C4C-C3C	-3.40	124.54	130.34
29	eL	202	PEB	CHC-C4C-C3C	-3.40	124.54	130.34
29	G3	202	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	iF	201	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	iI	201	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	GO	202	PEB	OD-C4D-ND	-3.40	120.89	125.93
29	BC	202	PEB	C1B-C2B-C3B	-3.40	102.61	106.51
29	BE	202	PEB	C1B-C2B-C3B	-3.40	102.61	106.51
31	C1	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
29	HC	203	PEB	CMB-C2B-C1B	3.40	130.30	125.06
29	HE	203	PEB	CMB-C2B-C1B	3.40	130.30	125.06
29	WF	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	WI	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
31	1P	1002	CYC	OC-C1C-C2C	-3.40	123.47	126.17
29	K5	203	PEB	CHC-C4C-C3C	-3.40	124.54	130.34
29	K8	203	PEB	CHC-C4C-C3C	-3.40	124.54	130.34
29	R7	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	R9	202	PEB	C3D-C4D-ND	3.40	113.93	107.26
29	B3	202	PEB	CMD-C2D-C3D	-3.40	125.27	130.06
29	BO	202	PEB	CMD-C2D-C3D	-3.40	125.27	130.06
31	GK	1001	CYC	CHA-C1A-NA	-3.40	124.11	128.83
29	B3	201	PEB	C3B-C4B-NB	3.40	114.99	110.05
29	BO	201	PEB	C3B-C4B-NB	3.40	114.99	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	j1	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	jK	201	PEB	OA-C1A-C2A	-3.40	123.47	126.17
29	c1	201	PEB	C4B-C3B-C2B	-3.40	103.02	106.78
29	cK	201	PEB	C4B-C3B-C2B	-3.40	103.02	106.78
31	MF	1001	CYC	C2C-C1C-NC	3.40	111.20	108.27
31	MI	1001	CYC	C2C-C1C-NC	3.40	111.20	108.27
29	TR	202	PEB	C4B-C3B-C2B	-3.40	103.02	106.78
29	T1	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
29	m1	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
29	TK	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
29	mK	201	PEB	CHC-C1D-ND	-3.40	110.00	113.95
29	e7	202	PEB	C3D-C4D-ND	3.40	113.92	107.26
29	e9	202	PEB	C3D-C4D-ND	3.40	113.92	107.26
29	LC	203	PEB	OD-C4D-ND	-3.40	120.90	125.93
29	LE	203	PEB	OD-C4D-ND	-3.40	120.90	125.93
29	L1	1002	PEB	C3B-C4B-NB	3.40	114.99	110.05
29	LK	1002	PEB	C3B-C4B-NB	3.40	114.99	110.05
29	fB	202	PEB	C1B-C2B-C3B	-3.39	102.61	106.51
29	fM	202	PEB	C1B-C2B-C3B	-3.39	102.61	106.51
29	DB	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	GB	201	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	YB	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	DM	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	GM	201	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	YM	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	V1	201	PEB	CHC-C1D-ND	-3.39	110.01	113.95
29	VK	201	PEB	CHC-C1D-ND	-3.39	110.01	113.95
29	A1	302	PEB	CMB-C2B-C1B	3.39	130.29	125.06
29	AK	302	PEB	CMB-C2B-C1B	3.39	130.29	125.06
29	K3	202	PEB	OD-C4D-ND	-3.39	120.90	125.93
29	KO	202	PEB	OD-C4D-ND	-3.39	120.90	125.93
29	H3	201	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	HO	201	PEB	C3B-C4B-NB	3.39	114.98	110.05
31	D1	1001	CYC	C1B-NB-C4B	-3.39	106.35	110.67
29	l7	202	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	l9	202	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	NK	1002	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	xJ	303	PEB	CHC-C4C-C3C	-3.39	124.55	130.34
29	c7	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	c9	202	PEB	C2A-C1A-NA	3.39	111.20	108.27
29	M4	203	PEB	CHA-C1B-NB	-3.39	117.84	124.93
29	Y7	202	PEB	C3D-C4D-ND	3.39	113.91	107.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Y9	202	PEB	C3D-C4D-ND	3.39	113.91	107.26
29	PF	201	PEB	OD-C4D-ND	-3.39	120.91	125.93
29	PI	201	PEB	OD-C4D-ND	-3.39	120.91	125.93
29	D3	201	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	DO	201	PEB	C3B-C4B-NB	3.39	114.98	110.05
29	UR	202	PEB	CBB-CAB-C3B	-3.39	103.21	112.63
29	kF	201	PEB	CAB-CBB-CGB	-3.39	106.31	113.60
29	kI	201	PEB	CAB-CBB-CGB	-3.39	106.31	113.60
29	OB	201	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	OM	201	PEB	C2A-C1A-NA	3.39	111.19	108.27
31	DK	1001	CYC	C1B-C2B-C3B	-3.39	104.33	107.87
29	M2	202	PEB	CBB-CAB-C3B	-3.39	103.21	112.63
29	c7	201	PEB	C4B-C3B-C2B	-3.39	103.03	106.78
29	c9	201	PEB	C4B-C3B-C2B	-3.39	103.03	106.78
29	RR	202	PEB	C4B-C3B-C2B	-3.39	103.03	106.78
29	OB	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	OM	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	H3	202	PEB	CHC-C4C-C3C	3.39	136.11	130.34
29	HO	202	PEB	CHC-C4C-C3C	3.39	136.11	130.34
29	SF	201	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	UF	202	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	jF	201	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	SI	201	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	UI	202	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	jI	201	PEB	OA-C1A-C2A	-3.39	123.48	126.17
29	A5	203	PEB	CHC-C4C-C3C	-3.39	124.56	130.34
29	A8	203	PEB	CHC-C4C-C3C	-3.39	124.56	130.34
29	UJ	202	PEB	CHC-C4C-C3C	-3.39	124.56	130.34
29	UL	202	PEB	CHC-C4C-C3C	-3.39	124.56	130.34
29	m7	202	PEB	C3D-C4D-ND	3.39	113.91	107.26
29	m9	202	PEB	C3D-C4D-ND	3.39	113.91	107.26
29	TB	202	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	TM	202	PEB	C2A-C1A-NA	3.39	111.19	108.27
31	IF	1001	CYC	C2C-C1C-NC	3.39	111.19	108.27
31	II	1001	CYC	C2C-C1C-NC	3.39	111.19	108.27
29	SB	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	SM	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	MQ	403	PEB	OD-C4D-C3D	-3.39	121.79	129.46
29	O2	202	PEB	CBB-CAB-C3B	-3.39	103.22	112.63
29	FC	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	HC	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	FE	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HE	202	PEB	C1B-C2B-C3B	-3.39	102.62	106.51
29	k7	202	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	k9	202	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	QB	203	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	QM	203	PEB	C2A-C1A-NA	3.39	111.19	108.27
29	eF	201	PEB	OD-C4D-ND	-3.39	120.91	125.93
29	eI	201	PEB	OD-C4D-ND	-3.39	120.91	125.93
29	C5	203	PEB	CHC-C4C-C3C	-3.39	124.56	130.34
29	AC	201	PEB	C2A-C1A-NA	3.38	111.19	108.27
29	AE	201	PEB	C2A-C1A-NA	3.38	111.19	108.27
29	gJ	202	PEB	CHC-C4C-C3C	-3.38	124.56	130.34
29	gL	202	PEB	CHC-C4C-C3C	-3.38	124.56	130.34
29	P7	201	PEB	C4B-C3B-C2B	-3.38	103.04	106.78
29	V7	201	PEB	C4B-C3B-C2B	-3.38	103.04	106.78
29	P9	201	PEB	C4B-C3B-C2B	-3.38	103.04	106.78
29	V9	201	PEB	C4B-C3B-C2B	-3.38	103.04	106.78
31	KI	1001	CYC	C2C-C1C-NC	3.38	111.19	108.27
29	IJ	202	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	IL	202	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	R2	202	PEB	C4B-C3B-C2B	-3.38	103.04	106.78
29	KC	202	PEB	CMB-C2B-C1B	3.38	130.27	125.06
29	KE	202	PEB	CMB-C2B-C1B	3.38	130.27	125.06
29	aI	201	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	aK	201	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	aF	201	PEB	OD-C4D-ND	-3.38	120.92	125.93
29	aI	201	PEB	OD-C4D-ND	-3.38	120.92	125.93
29	C3	201	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	CO	201	PEB	CHC-C1D-ND	-3.38	110.02	113.95
29	YF	201	PEB	OD-C4D-ND	-3.38	120.92	125.93
29	YI	201	PEB	OD-C4D-ND	-3.38	120.92	125.93
29	IB	202	PEB	C1B-C2B-C3B	-3.38	102.62	106.51
29	IM	202	PEB	C1B-C2B-C3B	-3.38	102.62	106.51
29	I5	203	PEB	CHC-C4C-C3C	-3.38	124.57	130.34
29	i7	202	PEB	C3D-C4D-ND	3.38	113.89	107.26
29	i9	202	PEB	C3D-C4D-ND	3.38	113.89	107.26
29	MG	404	PEB	OA-C1A-C2A	-3.38	123.48	126.17
29	E3	202	PEB	CHC-C4C-C3C	-3.38	124.57	130.34
29	EO	202	PEB	CHC-C4C-C3C	-3.38	124.57	130.34
29	J3	202	PEB	CMD-C2D-C3D	-3.38	125.30	130.06
29	JO	202	PEB	CMD-C2D-C3D	-3.38	125.30	130.06
29	I5	202	PEB	C3B-C4B-NB	3.38	114.97	110.05
29	I8	202	PEB	C3B-C4B-NB	3.38	114.97	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GB	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	GM	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	CJ	202	PEB	CHC-C4C-C3C	-3.38	124.57	130.34
29	CL	202	PEB	CHC-C4C-C3C	-3.38	124.57	130.34
29	U7	202	PEB	C3B-C4B-NB	3.38	114.96	110.05
29	U9	202	PEB	C3B-C4B-NB	3.38	114.96	110.05
29	cJ	202	PEB	CHC-C4C-C3C	-3.38	124.58	130.34
29	cL	202	PEB	CHC-C4C-C3C	-3.38	124.58	130.34
29	AC	203	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	AE	203	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	B8	201	PEB	C2A-C1A-NA	3.38	111.19	108.27
29	RF	201	PEB	CAB-CBB-CGB	-3.38	106.33	113.60
29	RI	201	PEB	CAB-CBB-CGB	-3.38	106.33	113.60
29	cF	201	PEB	OD-C4D-ND	-3.38	120.93	125.93
29	cI	201	PEB	OD-C4D-ND	-3.38	120.93	125.93
29	N1	1002	PEB	C3B-C4B-NB	3.38	114.96	110.05
29	S2	201	PEB	CHC-C4C-C3C	-3.38	124.58	130.34
29	MG	401	PEB	OD-C4D-C3D	-3.38	121.81	129.46
29	MQ	406	PEB	OA-C1A-C2A	-3.38	123.49	126.17
29	P1	201	PEB	CHC-C1D-ND	-3.38	110.03	113.95
29	UJ	202	PEB	CHC-C1D-ND	-3.38	110.03	113.95
29	PK	201	PEB	CHC-C1D-ND	-3.38	110.03	113.95
29	UL	202	PEB	CHC-C1D-ND	-3.38	110.03	113.95
29	H3	202	PEB	CMD-C2D-C3D	-3.38	125.30	130.06
29	HO	202	PEB	CMD-C2D-C3D	-3.38	125.30	130.06
29	oJ	202	PEB	CHC-C4C-C3C	-3.38	124.58	130.34
29	oL	202	PEB	CHC-C4C-C3C	-3.38	124.58	130.34
29	Y7	201	PEB	C4B-C3B-C2B	-3.38	103.05	106.78
29	Y9	201	PEB	C4B-C3B-C2B	-3.38	103.05	106.78
29	IC	201	PEB	CMB-C2B-C1B	3.38	130.26	125.06
29	IE	201	PEB	CMB-C2B-C1B	3.38	130.26	125.06
29	mB	203	PEB	OA-C1A-C2A	-3.38	123.49	126.17
29	mM	203	PEB	OA-C1A-C2A	-3.38	123.49	126.17
29	MB	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	FG	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	MM	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	FQ	202	PEB	C1B-C2B-C3B	-3.38	102.63	106.51
29	k1	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	kK	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
31	L1	1001	CYC	C1B-NB-C4B	-3.37	106.37	110.67
31	LK	1001	CYC	C1B-NB-C4B	-3.37	106.37	110.67
29	Q2	201	PEB	OD-C4D-C3D	-3.37	121.81	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MR	202	PEB	CHC-C4C-C3C	-3.37	124.58	130.34
29	d7	202	PEB	C3B-C4B-NB	3.37	114.96	110.05
29	d9	202	PEB	C3B-C4B-NB	3.37	114.96	110.05
29	KJ	202	PEB	CHC-C4C-C3C	-3.37	124.58	130.34
29	KL	202	PEB	CHC-C4C-C3C	-3.37	124.58	130.34
29	i1	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	iK	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	WB	202	PEB	C1B-C2B-C3B	-3.37	102.63	106.51
29	WM	202	PEB	C1B-C2B-C3B	-3.37	102.63	106.51
29	SJ	202	PEB	CHC-C4C-C3C	-3.37	124.58	130.34
29	SL	202	PEB	CHC-C4C-C3C	-3.37	124.58	130.34
29	MN	401	PEB	CMB-C2B-C1B	3.37	130.26	125.06
29	MG	401	PEB	C3B-C4B-NB	3.37	114.96	110.05
29	FB	202	PEB	C2A-C1A-NA	3.37	111.18	108.27
29	FM	202	PEB	C2A-C1A-NA	3.37	111.18	108.27
29	Q2	202	PEB	CBB-CAB-C3B	-3.37	103.25	112.63
29	OF	201	PEB	OA-C1A-C2A	-3.37	123.49	126.17
29	OI	201	PEB	OA-C1A-C2A	-3.37	123.49	126.17
29	PF	201	PEB	CAB-CBB-CGB	-3.37	106.34	113.60
29	PI	201	PEB	CAB-CBB-CGB	-3.37	106.34	113.60
29	V7	202	PEB	C3D-C4D-ND	3.37	113.88	107.26
29	V9	202	PEB	C3D-C4D-ND	3.37	113.88	107.26
29	sJ	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	sL	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	TI	201	PEB	CAB-CBB-CGB	-3.37	106.35	113.60
29	WR	202	PEB	CBB-CAB-C3B	-3.37	103.26	112.63
29	A7	301	PEB	C4B-C3B-C2B	-3.37	103.05	106.78
29	A9	301	PEB	C4B-C3B-C2B	-3.37	103.05	106.78
29	gF	201	PEB	OD-C4D-ND	-3.37	120.94	125.93
29	gI	201	PEB	OD-C4D-ND	-3.37	120.94	125.93
29	hB	201	PEB	C2A-C1A-NA	3.37	111.18	108.27
29	hM	201	PEB	C2A-C1A-NA	3.37	111.18	108.27
31	GF	1001	CYC	C2C-C1C-NC	3.37	111.18	108.27
31	GI	1001	CYC	C2C-C1C-NC	3.37	111.18	108.27
29	R1	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	RK	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	jB	202	PEB	C1B-C2B-C3B	-3.37	102.64	106.51
29	jM	202	PEB	C1B-C2B-C3B	-3.37	102.64	106.51
29	S2	202	PEB	CBB-CAB-C3B	-3.37	103.26	112.63
29	C3	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	GJ	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	GL	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CO	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	B3	202	PEB	CHC-C4C-C3C	3.37	136.08	130.34
29	BO	202	PEB	CHC-C4C-C3C	3.37	136.08	130.34
29	VF	201	PEB	CAB-CBB-CGB	-3.37	106.35	113.60
29	VI	201	PEB	CAB-CBB-CGB	-3.37	106.35	113.60
29	TI	201	PEB	OD-C4D-ND	-3.37	120.94	125.93
29	E3	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
29	EO	201	PEB	CHC-C1D-ND	-3.37	110.03	113.95
31	D1	1003	CYC	C4A-C3A-C2A	-3.37	102.64	106.51
29	mJ	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	mL	202	PEB	CHC-C4C-C3C	-3.37	124.59	130.34
29	I3	201	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	IO	201	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	F3	202	PEB	CMD-C2D-C3D	-3.37	125.31	130.06
29	FO	202	PEB	CMD-C2D-C3D	-3.37	125.31	130.06
29	mJ	202	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	sJ	202	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	mL	202	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	sL	202	PEB	CHC-C1D-ND	-3.37	110.04	113.95
29	MQ	403	PEB	C4B-C3B-C2B	-3.37	103.06	106.78
29	JG	202	PEB	CBA-CAA-C3A	-3.37	105.97	113.47
29	JQ	202	PEB	CBA-CAA-C3A	-3.37	105.97	113.47
29	S7	202	PEB	C3B-C4B-NB	3.37	114.95	110.05
29	S9	202	PEB	C3B-C4B-NB	3.37	114.95	110.05
29	mF	201	PEB	CAB-CBB-CGB	-3.37	106.36	113.60
29	mI	201	PEB	CAB-CBB-CGB	-3.37	106.36	113.60
29	C8	203	PEB	CHC-C4C-C3C	-3.37	124.60	130.34
29	MQ	403	PEB	C3B-C4B-NB	3.37	114.94	110.05
29	zJ	501	PEB	C2A-C1A-NA	3.37	111.17	108.27
29	xL	301	PEB	OD-C4D-C3D	-3.37	121.83	129.46
29	B8	201	PEB	CHA-C1B-NB	-3.36	117.89	124.93
29	jF	201	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	jI	201	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	kJ	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	kL	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	F3	202	PEB	CHC-C4C-C3C	3.36	136.07	130.34
29	FO	202	PEB	CHC-C4C-C3C	3.36	136.07	130.34
29	cJ	202	PEB	CHC-C1D-ND	-3.36	110.04	113.95
29	cL	202	PEB	CHC-C1D-ND	-3.36	110.04	113.95
29	iJ	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	iL	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	F8	201	PEB	CHA-C1B-NB	-3.36	117.90	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	V1	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	VK	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	AJ	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	AL	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	h7	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	h9	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	GJ	202	PEB	CHC-C1D-ND	-3.36	110.04	113.95
29	GL	202	PEB	CHC-C1D-ND	-3.36	110.04	113.95
29	VF	201	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	VI	201	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	IA	202	PEB	C4B-C3B-C2B	-3.36	103.06	106.78
29	IN	202	PEB	C4B-C3B-C2B	-3.36	103.06	106.78
29	gF	201	PEB	CAB-CBB-CGB	-3.36	106.37	113.60
29	iF	201	PEB	CAB-CBB-CGB	-3.36	106.37	113.60
29	gI	201	PEB	CAB-CBB-CGB	-3.36	106.37	113.60
29	iI	201	PEB	CAB-CBB-CGB	-3.36	106.37	113.60
29	OJ	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
29	OL	202	PEB	CHC-C4C-C3C	-3.36	124.60	130.34
31	E1	1001	CYC	C4A-C3A-C2A	-3.36	102.65	106.51
29	B8	202	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	LB	202	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	LM	202	PEB	C2A-C1A-NA	3.36	111.17	108.27
31	F1	1001	CYC	C1B-NB-C4B	-3.36	106.39	110.67
31	FK	1001	CYC	C1B-NB-C4B	-3.36	106.39	110.67
29	P1	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	PK	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	SR	202	PEB	CBB-CAB-C3B	-3.36	103.29	112.63
29	RB	202	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	RM	202	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	CC	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	CE	201	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	JC	202	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	JE	202	PEB	OD-C4D-ND	-3.36	120.95	125.93
29	QJ	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	QL	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	O7	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	W7	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	O9	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	W9	202	PEB	C3B-C4B-NB	3.36	114.94	110.05
29	MJ	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	ML	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	lB	201	PEB	C2A-C1A-NA	3.36	111.17	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IM	201	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	I3	203	PEB	CMD-C2D-C3D	-3.36	125.33	130.06
29	IO	203	PEB	CMD-C2D-C3D	-3.36	125.33	130.06
29	K3	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	IJ	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	IL	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	KO	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	H8	201	PEB	CHA-C1B-NB	-3.36	117.91	124.93
29	CA	202	PEB	C1B-C2B-C3B	-3.36	102.65	106.51
29	CN	202	PEB	C1B-C2B-C3B	-3.36	102.65	106.51
29	H8	201	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	dB	201	PEB	C2A-C1A-NA	3.36	111.17	108.27
29	dM	201	PEB	C2A-C1A-NA	3.36	111.17	108.27
31	EK	1001	CYC	C2C-C1C-NC	3.36	111.17	108.27
29	f7	202	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	f9	202	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	a7	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	m7	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	a9	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	m9	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	KA	202	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	KN	202	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	MA	401	PEB	CMB-C2B-C1B	3.36	130.24	125.06
29	F5	201	PEB	CHA-C1B-NB	-3.36	117.91	124.93
29	M2	201	PEB	OD-C4D-C3D	-3.36	121.85	129.46
29	MR	201	PEB	OD-C4D-C3D	-3.36	121.85	129.46
29	L3	201	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	LO	201	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	cF	201	PEB	CAB-CBB-CGB	-3.36	106.38	113.60
29	cI	201	PEB	CAB-CBB-CGB	-3.36	106.38	113.60
29	U2	202	PEB	CBB-CAB-C3B	-3.36	103.30	112.63
29	FC	203	PEB	OD-C4D-ND	-3.36	120.96	125.93
29	FE	203	PEB	OD-C4D-ND	-3.36	120.96	125.93
29	A5	202	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	A8	202	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	C8	202	PEB	C3B-C4B-NB	3.36	114.93	110.05
29	aJ	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	aL	202	PEB	CHC-C4C-C3C	-3.36	124.61	130.34
29	g1	201	PEB	CMB-C2B-C1B	3.36	130.23	125.06
29	gK	201	PEB	CMB-C2B-C1B	3.36	130.23	125.06
29	DG	202	PEB	C1B-C2B-C3B	-3.36	102.65	106.51
29	DQ	202	PEB	C1B-C2B-C3B	-3.36	102.65	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HC	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	HE	201	PEB	C4B-C3B-C2B	-3.36	103.07	106.78
29	QJ	202	PEB	CHC-C1D-ND	-3.36	110.05	113.95
29	QL	202	PEB	CHC-C1D-ND	-3.36	110.05	113.95
29	UR	201	PEB	OD-C4D-C3D	-3.36	121.86	129.46
29	W1	201	PEB	OA-C1A-C2A	-3.36	123.50	126.17
29	WK	201	PEB	OA-C1A-C2A	-3.36	123.50	126.17
31	yP	1001	CYC	OC-C1C-C2C	-3.36	123.50	126.17
29	AC	201	PEB	CMB-C2B-C1B	3.36	130.23	125.06
29	AE	201	PEB	CMB-C2B-C1B	3.36	130.23	125.06
29	I3	202	PEB	CHC-C4C-C3C	-3.35	124.61	130.34
29	IO	202	PEB	CHC-C4C-C3C	-3.35	124.61	130.34
29	J3	202	PEB	CHC-C4C-C3C	3.35	136.06	130.34
29	JO	202	PEB	CHC-C4C-C3C	3.35	136.06	130.34
29	j7	202	PEB	C3B-C4B-NB	3.35	114.93	110.05
29	j9	202	PEB	C3B-C4B-NB	3.35	114.93	110.05
29	GA	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	GN	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	QR	202	PEB	CBB-CAB-C3B	-3.35	103.31	112.63
29	WJ	203	PEB	CHC-C1D-ND	-3.35	110.05	113.95
29	WL	203	PEB	CHC-C1D-ND	-3.35	110.05	113.95
29	KG	202	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	KQ	202	PEB	OA-C1A-C2A	-3.35	123.51	126.17
31	NK	1001	CYC	C1B-NB-C4B	-3.35	106.40	110.67
29	gJ	202	PEB	CHC-C1D-ND	-3.35	110.05	113.95
29	gL	202	PEB	CHC-C1D-ND	-3.35	110.05	113.95
29	QR	201	PEB	OD-C4D-C3D	-3.35	121.86	129.46
29	W2	202	PEB	CBB-CAB-C3B	-3.35	103.31	112.63
29	G3	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	GO	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	eF	201	PEB	CAB-CBB-CGB	-3.35	106.39	113.60
29	eI	201	PEB	CAB-CBB-CGB	-3.35	106.39	113.60
29	R1	201	PEB	CMB-C2B-C1B	3.35	130.23	125.06
29	RK	201	PEB	CMB-C2B-C1B	3.35	130.23	125.06
29	A3	202	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	AO	202	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	O2	201	PEB	OD-C4D-C3D	-3.35	121.86	129.46
29	K3	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	LG	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	KO	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	LQ	201	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	c1	201	PEB	CMB-C2B-C1B	3.35	130.23	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	cK	201	PEB	CMB-C2B-C1B	3.35	130.23	125.06
29	uJ	203	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	uL	203	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	MN	404	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	e7	201	PEB	C4B-C3B-C2B	-3.35	103.07	106.78
29	e9	201	PEB	C4B-C3B-C2B	-3.35	103.07	106.78
29	S1	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	SK	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	e1	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	eK	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	I3	203	PEB	CHC-C4C-C3C	3.35	136.05	130.34
29	IO	203	PEB	CHC-C4C-C3C	3.35	136.05	130.34
30	A7	303	PUB	CHC-C1D-ND	-3.35	109.48	113.72
30	A9	303	PUB	CHC-C1D-ND	-3.35	109.48	113.72
29	LG	202	PEB	CBA-CAA-C3A	-3.35	106.01	113.47
29	LQ	201	PEB	CBA-CAA-C3A	-3.35	106.01	113.47
29	W2	201	PEB	OD-C4D-C3D	-3.35	121.87	129.46
29	WR	201	PEB	OD-C4D-C3D	-3.35	121.87	129.46
29	h7	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	h9	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	aB	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	aM	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	OF	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	OI	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	KC	202	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	KE	202	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	TF	201	PEB	C2A-C1A-NA	3.35	111.16	108.27
30	yL	303	PUB	CHA-C1B-C2B	-3.35	124.62	130.34
29	AC	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	AE	202	PEB	C1B-C2B-C3B	-3.35	102.66	106.51
29	HC	203	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	HE	203	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	U1	202	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	l1	201	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	UK	202	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	IK	201	PEB	OA-C1A-C2A	-3.35	123.51	126.17
29	OJ	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	SJ	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	OL	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	SL	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	YF	201	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	YI	201	PEB	C4B-C3B-C2B	-3.35	103.08	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	qJ	202	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	qL	202	PEB	CHC-C4C-C3C	-3.35	124.62	130.34
29	VB	202	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	EC	201	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	EE	201	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	VM	202	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	a1	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	aK	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	A3	201	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	AO	201	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	O1	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	OK	201	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	BC	201	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	BE	201	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	DG	202	PEB	CBA-CAA-C3A	-3.35	106.01	113.47
29	DQ	202	PEB	CBA-CAA-C3A	-3.35	106.01	113.47
29	GC	201	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	GE	201	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	EC	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	EE	201	PEB	CMB-C2B-C1B	3.35	130.22	125.06
29	e1	201	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	eK	201	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	dF	202	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	dI	202	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	kB	202	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	kM	202	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	hB	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
29	hM	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
31	CK	1001	CYC	C4A-C3A-C2A	-3.35	102.67	106.51
29	U2	201	PEB	OD-C4D-C3D	-3.35	121.88	129.46
29	HG	202	PEB	CBA-CAA-C3A	-3.35	106.02	113.47
29	HQ	202	PEB	CBA-CAA-C3A	-3.35	106.02	113.47
29	aJ	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	eJ	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	aL	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	eL	202	PEB	CHC-C1D-ND	-3.35	110.06	113.95
29	KB	203	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	KM	203	PEB	C4B-C3B-C2B	-3.35	103.08	106.78
29	DC	202	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	DE	202	PEB	OD-C4D-ND	-3.35	120.97	125.93
29	cB	202	PEB	C2A-C1A-NA	3.35	111.16	108.27
29	cM	202	PEB	C2A-C1A-NA	3.35	111.16	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	wJ	305	PUB	C1C-C2C-C3C	-3.35	103.08	106.78
29	N1	1002	PEB	OD-C4D-C3D	-3.35	121.88	129.46
29	CB	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
29	HG	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
29	CM	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
29	HQ	202	PEB	C1B-C2B-C3B	-3.35	102.67	106.51
29	Q7	202	PEB	C3B-C4B-NB	3.35	114.92	110.05
29	Q9	202	PEB	C3B-C4B-NB	3.35	114.92	110.05
29	B5	201	PEB	CHA-C1B-NB	-3.34	117.94	124.93
29	B5	202	PEB	C2A-C1A-NA	3.34	111.16	108.27
31	E1	1001	CYC	C2C-C1C-NC	3.34	111.16	108.27
29	YJ	202	PEB	CHC-C4C-C3C	-3.34	124.63	130.34
29	YL	202	PEB	CHC-C4C-C3C	-3.34	124.63	130.34
31	L9	1001	CYC	O2A-CGA-CBA	3.34	124.77	114.03
29	YB	203	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	YM	203	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
31	GK	1001	CYC	C4A-C3A-C2A	-3.34	102.67	106.51
29	HB	202	PEB	C2A-C1A-NA	3.34	111.16	108.27
29	aB	201	PEB	C2A-C1A-NA	3.34	111.16	108.27
29	HM	202	PEB	C2A-C1A-NA	3.34	111.16	108.27
29	aM	201	PEB	C2A-C1A-NA	3.34	111.16	108.27
29	OR	201	PEB	OD-C4D-C3D	-3.34	121.89	129.46
29	YF	201	PEB	CAB-CBB-CGB	-3.34	106.41	113.60
29	YI	201	PEB	CAB-CBB-CGB	-3.34	106.41	113.60
29	T7	201	PEB	C4B-C3B-C2B	-3.34	103.08	106.78
29	T9	201	PEB	C4B-C3B-C2B	-3.34	103.08	106.78
29	QB	204	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	QM	204	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
31	M1	1001	CYC	C4A-C3A-C2A	-3.34	102.67	106.51
31	MK	1001	CYC	C4A-C3A-C2A	-3.34	102.67	106.51
29	aF	201	PEB	CAB-CBB-CGB	-3.34	106.41	113.60
29	aI	201	PEB	CAB-CBB-CGB	-3.34	106.41	113.60
29	m7	203	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	m9	203	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	EB	202	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	dB	202	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	EM	202	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	dM	202	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	C5	202	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	Z7	202	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	Z9	202	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	HB	202	PEB	C3B-C4B-NB	3.34	114.91	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HM	202	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	GC	201	PEB	CMB-C2B-C1B	3.34	130.21	125.06
29	GE	201	PEB	CMB-C2B-C1B	3.34	130.21	125.06
29	xJ	301	PEB	OD-C4D-C3D	-3.34	121.89	129.46
29	G3	202	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	EJ	202	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	EL	202	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	GO	202	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	iB	201	PEB	OD-C4D-ND	-3.34	120.98	125.93
29	ZF	201	PEB	OD-C4D-ND	-3.34	120.98	125.93
29	ZI	201	PEB	OD-C4D-ND	-3.34	120.98	125.93
29	iM	201	PEB	OD-C4D-ND	-3.34	120.98	125.93
29	DC	201	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
29	DE	201	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
29	KC	203	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	KE	203	PEB	C1B-C2B-C3B	-3.34	102.67	106.51
29	CJ	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	CL	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	k1	201	PEB	CMB-C2B-C1B	3.34	130.21	125.06
29	kK	201	PEB	CMB-C2B-C1B	3.34	130.21	125.06
29	FG	202	PEB	CBA-CAA-C3A	-3.34	106.03	113.47
29	FQ	202	PEB	CBA-CAA-C3A	-3.34	106.03	113.47
29	JB	202	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
29	JM	202	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
29	BG	202	PEB	CBA-CAA-C3A	-3.34	106.03	113.47
29	BQ	202	PEB	CBA-CAA-C3A	-3.34	106.03	113.47
29	A7	301	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	A9	301	PEB	C3B-C4B-NB	3.34	114.91	110.05
29	K3	201	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	EJ	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	oJ	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	EL	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	oL	202	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	KO	201	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	IG	202	PEB	OA-C1A-C2A	-3.34	123.52	126.17
29	IQ	202	PEB	OA-C1A-C2A	-3.34	123.52	126.17
29	K5	202	PEB	C3B-C4B-NB	3.34	114.90	110.05
29	K8	202	PEB	C3B-C4B-NB	3.34	114.90	110.05
29	uJ	201	PEB	C2A-C1A-NA	3.34	111.15	108.27
29	uL	201	PEB	C2A-C1A-NA	3.34	111.15	108.27
29	Q1	201	PEB	OD-C4D-ND	-3.34	120.99	125.93
29	QK	201	PEB	OD-C4D-ND	-3.34	120.99	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WJ	203	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	WL	203	PEB	CHC-C4C-C3C	-3.34	124.64	130.34
29	cB	202	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
29	cM	202	PEB	C4B-C3B-C2B	-3.34	103.09	106.78
31	HK	1001	CYC	C1B-NB-C4B	-3.34	106.42	110.67
31	DK	1001	CYC	C1B-NB-C4B	-3.34	106.42	110.67
29	MA	405	PEB	CHC-C1D-ND	-3.34	110.07	113.95
29	HK	1002	PEB	OD-C4D-C3D	-3.34	121.90	129.46
31	J1	1001	CYC	C1B-NB-C4B	-3.34	106.42	110.67
31	JK	1001	CYC	C1B-NB-C4B	-3.34	106.42	110.67
29	NK	1002	PEB	OD-C4D-C3D	-3.34	121.90	129.46
29	W1	201	PEB	OD-C4D-ND	-3.34	120.99	125.93
29	WK	201	PEB	OD-C4D-ND	-3.34	120.99	125.93
29	QB	202	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	kB	202	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	IC	201	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	IE	201	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	QM	202	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	kM	202	PEB	C2A-C1A-NA	3.33	111.15	108.27
30	yJ	303	PUB	CHA-C1B-C2B	-3.33	124.65	130.34
29	L8	201	PEB	CHA-C1B-NB	-3.33	117.96	124.93
29	J5	201	PEB	CAA-C3A-C4A	-3.33	104.11	112.67
29	H1	1002	PEB	OD-C4D-C3D	-3.33	121.91	129.46
29	R7	201	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	R9	201	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	aB	203	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	aM	203	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	mF	201	PEB	OD-C4D-ND	-3.33	120.99	125.93
29	mI	201	PEB	OD-C4D-ND	-3.33	120.99	125.93
29	i1	201	PEB	CMB-C2B-C1B	3.33	130.20	125.06
29	iK	201	PEB	CMB-C2B-C1B	3.33	130.20	125.06
29	W7	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
29	W9	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
29	JG	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
29	JQ	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
31	C1	1001	CYC	C4A-C3A-C2A	-3.33	102.68	106.51
29	YJ	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	YL	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	CC	201	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	CE	201	PEB	C2A-C1A-NA	3.33	111.15	108.27
29	G5	201	PEB	CHA-C1B-NB	-3.33	117.96	124.93
29	H5	201	PEB	CHA-C1B-NB	-3.33	117.96	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gB	202	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	gM	202	PEB	C4B-C3B-C2B	-3.33	103.09	106.78
29	lB	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
29	lM	202	PEB	C1B-C2B-C3B	-3.33	102.68	106.51
29	f1	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	lF	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	lI	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	fK	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	i7	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	i9	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
31	N1	1001	CYC	C1B-NB-C4B	-3.33	106.43	110.67
29	F5	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	YB	201	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	YM	201	PEB	C2A-C1A-NA	3.33	111.14	108.27
31	D7	1001	CYC	O2A-CGA-CBA	3.33	124.73	114.03
31	D9	1001	CYC	O2A-CGA-CBA	3.33	124.73	114.03
29	G3	201	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	MJ	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	iJ	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	ML	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	iL	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	GO	201	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	g7	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	k7	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	g9	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	k9	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
31	H7	1001	CYC	O2A-CGA-CBA	3.33	124.73	114.03
31	L7	1001	CYC	O2A-CGA-CBA	3.33	124.73	114.03
31	H9	1001	CYC	O2A-CGA-CBA	3.33	124.73	114.03
29	A3	202	PEB	C1B-C2B-C3B	-3.33	102.69	106.51
29	AO	202	PEB	C1B-C2B-C3B	-3.33	102.69	106.51
29	AJ	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
29	AL	202	PEB	CHC-C1D-ND	-3.33	110.08	113.95
30	xL	305	PUB	C1C-C2C-C3C	-3.33	103.10	106.78
29	KB	203	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	KM	203	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	h1	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	YF	203	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	YI	203	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	hK	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	LB	202	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	eF	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kF	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	mF	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	eI	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	kI	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	mI	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	LM	202	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	JB	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	JM	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	d1	201	PEB	OA-C1A-C2A	-3.33	123.53	126.17
29	h1	201	PEB	OA-C1A-C2A	-3.33	123.53	126.17
29	dK	201	PEB	OA-C1A-C2A	-3.33	123.53	126.17
29	hK	201	PEB	OA-C1A-C2A	-3.33	123.53	126.17
32	k6	302	PMS	O3S-S-O2S	3.33	119.40	111.27
32	kH	302	PMS	O3S-S-O2S	3.33	119.40	111.27
29	U1	202	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	WF	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	WI	201	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	UK	202	PEB	OD-C4D-ND	-3.33	121.00	125.93
29	AA	202	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	FC	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	FE	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	AN	202	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	b7	202	PEB	C3B-C4B-NB	3.33	114.89	110.05
29	b9	202	PEB	C3B-C4B-NB	3.33	114.89	110.05
29	FJ	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	gJ	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	FL	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	gL	202	PEB	C2A-C1A-NA	3.33	111.14	108.27
29	TI	201	PEB	C4B-C3B-C2B	-3.33	103.10	106.78
29	FJ	203	PEB	CHB-C4B-C3B	-3.33	117.64	125.32
29	FL	203	PEB	CHB-C4B-C3B	-3.33	117.64	125.32
31	DK	1001	CYC	C4A-C3A-C2A	-3.33	102.69	106.51
29	QF	201	PEB	OD-C4D-ND	-3.32	121.00	125.93
29	SF	201	PEB	OD-C4D-ND	-3.32	121.00	125.93
29	QI	201	PEB	OD-C4D-ND	-3.32	121.00	125.93
29	SI	201	PEB	OD-C4D-ND	-3.32	121.00	125.93
29	KA	202	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
29	KN	202	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
31	IK	1001	CYC	C4A-C3A-C2A	-3.32	102.69	106.51
29	J8	201	PEB	CAA-C3A-C4A	-3.32	104.14	112.67
29	m1	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06
29	mK	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J1	1002	PEB	OD-C4D-C3D	-3.32	121.93	129.46
29	JK	1002	PEB	OD-C4D-C3D	-3.32	121.93	129.46
29	l1	201	PEB	OD-C4D-ND	-3.32	121.01	125.93
29	lK	201	PEB	OD-C4D-ND	-3.32	121.01	125.93
29	rJ	202	PEB	C2A-C1A-NA	3.32	111.14	108.27
29	rL	202	PEB	C2A-C1A-NA	3.32	111.14	108.27
29	EB	202	PEB	CHA-C1B-NB	-3.32	117.98	124.93
29	EM	202	PEB	CHA-C1B-NB	-3.32	117.98	124.93
29	VJ	202	PEB	CHB-C4B-C3B	-3.32	117.64	125.32
29	VL	202	PEB	CHB-C4B-C3B	-3.32	117.64	125.32
29	PB	202	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	PM	202	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	UB	202	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
29	MQ	401	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
30	A7	302	PUB	CHA-C4A-NA	-3.32	110.09	113.95
30	A9	302	PUB	CHA-C4A-NA	-3.32	110.09	113.95
29	gB	202	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	gM	202	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	BB	301	PEB	CAA-C3A-C4A	3.32	121.20	112.67
29	BM	301	PEB	CAA-C3A-C4A	3.32	121.20	112.67
31	E7	1001	CYC	CMB-C2B-C1B	3.32	128.31	124.17
31	E9	1001	CYC	CMB-C2B-C1B	3.32	128.31	124.17
29	DK	1002	PEB	OD-C4D-C3D	-3.32	121.94	129.46
29	EA	202	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
29	EN	202	PEB	C1B-C2B-C3B	-3.32	102.69	106.51
29	vJ	202	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
29	vL	202	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
29	Z1	202	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	FB	203	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	kB	203	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	ZK	202	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	FM	203	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	kM	203	PEB	OA-C1A-C2A	-3.32	123.53	126.17
29	TJ	203	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
29	TL	203	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
31	F9	1001	CYC	O2A-CGA-CBA	3.32	124.70	114.03
29	ZJ	202	PEB	C2A-C1A-NA	3.32	111.14	108.27
29	ZL	202	PEB	C2A-C1A-NA	3.32	111.14	108.27
29	l1	201	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	BG	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	lK	201	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	BQ	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KJ	202	PEB	CHC-C1D-ND	-3.32	110.09	113.95
29	kJ	202	PEB	CHC-C1D-ND	-3.32	110.09	113.95
29	KL	202	PEB	CHC-C1D-ND	-3.32	110.09	113.95
29	kL	202	PEB	CHC-C1D-ND	-3.32	110.09	113.95
29	HB	202	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
29	cF	201	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
29	cI	201	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
29	HM	202	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
29	c7	203	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	c9	203	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	T1	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06
29	Y1	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06
29	TK	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06
29	YK	201	PEB	CMB-C2B-C1B	3.32	130.18	125.06
29	fF	201	PEB	OD-C4D-ND	-3.32	121.01	125.93
29	fI	201	PEB	OD-C4D-ND	-3.32	121.01	125.93
29	IJ	203	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
29	IL	203	PEB	CHB-C4B-C3B	-3.32	117.65	125.32
29	wL	301	PEB	OD-C4D-C3D	-3.32	121.94	129.46
29	KB	203	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	KM	203	PEB	C3B-C4B-NB	3.32	114.88	110.05
29	C3	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	I3	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	f7	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	f9	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	CO	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	IO	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	UB	202	PEB	CHA-C1B-NB	-3.32	117.99	124.93
29	MQ	401	PEB	CHA-C1B-NB	-3.32	117.99	124.93
29	nJ	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	tJ	202	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	nL	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	tL	202	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	D1	1002	PEB	OD-C4D-C3D	-3.32	121.94	129.46
29	UF	202	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	UI	202	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	TJ	202	PEB	C2A-C1A-NA	3.32	111.13	108.27
29	TL	202	PEB	C2A-C1A-NA	3.32	111.13	108.27
29	XJ	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	jJ	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	XL	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	jL	203	PEB	CHB-C4B-C3B	-3.32	117.66	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JC	201	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
29	JE	201	PEB	C4B-C3B-C2B	-3.32	103.11	106.78
31	N7	1001	CYC	O2A-CGA-CBA	3.32	124.69	114.03
31	N9	1001	CYC	O2A-CGA-CBA	3.32	124.69	114.03
29	Y7	203	PEB	C3B-C4B-NB	3.32	114.87	110.05
29	Y9	203	PEB	C3B-C4B-NB	3.32	114.87	110.05
29	A3	201	PEB	CHC-C4C-C3C	-3.32	124.68	130.34
29	AO	201	PEB	CHC-C4C-C3C	-3.32	124.68	130.34
29	S7	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	S9	202	PEB	C1B-C2B-C3B	-3.32	102.70	106.51
29	HB	201	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	BC	203	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	BE	203	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	HM	201	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	DJ	202	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	DL	202	PEB	CHB-C4B-C3B	-3.32	117.66	125.32
29	wJ	301	PEB	OD-C4D-C3D	-3.32	121.95	129.46
29	b1	201	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	MG	405	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	bK	201	PEB	OD-C4D-ND	-3.32	121.02	125.93
29	K3	201	PEB	CHC-C4C-C3C	-3.31	124.68	130.34
29	KO	201	PEB	CHC-C4C-C3C	-3.31	124.68	130.34
29	JB	202	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	JM	202	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	Z7	202	PEB	C1B-C2B-C3B	-3.31	102.70	106.51
29	Z9	202	PEB	C1B-C2B-C3B	-3.31	102.70	106.51
29	LC	201	PEB	C4B-C3B-C2B	-3.31	103.11	106.78
29	LE	201	PEB	C4B-C3B-C2B	-3.31	103.11	106.78
31	H1	1001	CYC	C1B-NB-C4B	-3.31	106.45	110.67
29	H5	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
31	F7	1001	CYC	O2A-CGA-CBA	3.31	124.68	114.03
29	HB	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	HM	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	KB	202	PEB	C1B-C2B-C3B	-3.31	102.70	106.51
29	KM	202	PEB	C1B-C2B-C3B	-3.31	102.70	106.51
29	MN	405	PEB	C1B-C2B-C3B	-3.31	102.70	106.51
31	I1	1001	CYC	C4A-C3A-C2A	-3.31	102.70	106.51
29	d1	201	PEB	OD-C4D-ND	-3.31	121.02	125.93
29	dK	201	PEB	OD-C4D-ND	-3.31	121.02	125.93
29	i7	203	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	i9	203	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	YB	201	PEB	C3B-C4B-NB	3.31	114.87	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YM	201	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	LJ	202	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	LL	202	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	EJ	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	OJ	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	EL	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	OL	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	ZB	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	ZM	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	NJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	NL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	j1	201	PEB	OD-C4D-ND	-3.31	121.02	125.93
29	jK	201	PEB	OD-C4D-ND	-3.31	121.02	125.93
29	BJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	BL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	Y1	201	PEB	CHC-C1D-ND	-3.31	110.10	113.95
29	YK	201	PEB	CHC-C1D-ND	-3.31	110.10	113.95
31	EK	1001	CYC	C4A-C3A-C2A	-3.31	102.70	106.51
29	EA	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
29	EN	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
29	G8	201	PEB	CHA-C1B-NB	-3.31	118.00	124.93
29	JJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	JL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	lB	202	PEB	CHA-C1B-NB	-3.31	118.01	124.93
29	lM	202	PEB	CHA-C1B-NB	-3.31	118.01	124.93
29	VB	202	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	VM	202	PEB	C3B-C4B-NB	3.31	114.87	110.05
29	hF	201	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	hI	201	PEB	OD-C4D-ND	-3.31	121.03	125.93
31	J9	1001	CYC	O2A-CGA-CBA	3.31	124.67	114.03
29	mB	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	BJ	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	JJ	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	BL	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	JL	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	mM	202	PEB	C2A-C1A-NA	3.31	111.13	108.27
29	RJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	RL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	RB	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
29	RM	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
29	HJ	202	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	pJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HL	202	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	pL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	CB	202	PEB	CHA-C1B-NB	-3.31	118.01	124.93
29	CM	202	PEB	CHA-C1B-NB	-3.31	118.01	124.93
29	EC	202	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	EE	202	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	PJ	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	PL	203	PEB	CHB-C4B-C3B	-3.31	117.67	125.32
29	E3	201	PEB	CHC-C4C-C3C	-3.31	124.69	130.34
29	EO	201	PEB	CHC-C4C-C3C	-3.31	124.69	130.34
29	E3	202	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	EO	202	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	GA	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
29	GN	202	PEB	C4B-C3B-C2B	-3.31	103.12	106.78
30	A7	302	PUB	C4B-CHB-C1C	-3.31	124.86	128.81
30	A9	302	PUB	C4B-CHB-C1C	-3.31	124.86	128.81
29	G5	202	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	iB	202	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	aJ	202	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	aL	202	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	iM	202	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	KB	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	KM	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	Z1	202	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	ZK	202	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	L1	1002	PEB	OD-C4D-C3D	-3.31	121.97	129.46
29	LK	1002	PEB	OD-C4D-C3D	-3.31	121.97	129.46
29	AF	304	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	AI	304	PEB	C1B-C2B-C3B	-3.31	102.71	106.51
29	b1	201	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	JB	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	gB	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	bK	201	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	JM	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	gM	203	PEB	OA-C1A-C2A	-3.31	123.54	126.17
29	mF	203	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	mI	203	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	MB	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	aB	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	MM	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	aM	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
31	J7	1001	CYC	O2A-CGA-CBA	3.31	124.65	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MD	201	PEB	C2A-C1A-NA	3.31	111.12	108.27
29	HA	202	PEB	C3B-C4B-NB	3.31	114.86	110.05
29	HN	202	PEB	C3B-C4B-NB	3.31	114.86	110.05
29	bF	201	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	bI	201	PEB	OD-C4D-ND	-3.31	121.03	125.93
29	fB	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	fM	202	PEB	CHA-C1B-NB	-3.31	118.02	124.93
29	I3	201	PEB	CHC-C4C-C3C	-3.30	124.70	130.34
29	IO	201	PEB	CHC-C4C-C3C	-3.30	124.70	130.34
29	aB	203	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	aM	203	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	T7	203	PEB	C3B-C4B-NB	3.30	114.86	110.05
29	T9	203	PEB	C3B-C4B-NB	3.30	114.86	110.05
29	cB	202	PEB	C3B-C4B-NB	3.30	114.86	110.05
29	cM	202	PEB	C3B-C4B-NB	3.30	114.86	110.05
29	rJ	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	rL	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	NB	202	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	VB	203	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	NM	202	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	VM	203	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	gB	202	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	gM	202	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	ZJ	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	ZL	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	L5	201	PEB	CHA-C1B-NB	-3.30	118.02	124.93
29	FA	202	PEB	C3B-C4B-NB	3.30	114.85	110.05
29	FN	202	PEB	C3B-C4B-NB	3.30	114.85	110.05
29	DB	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	DM	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	O1	201	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	XB	202	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	cB	203	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	OK	201	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	XM	202	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	cM	203	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	MN	405	PEB	CHC-C1D-ND	-3.30	110.11	113.95
29	AF	301	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	AI	301	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	dJ	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	dL	203	PEB	CHB-C4B-C3B	-3.30	117.69	125.32
29	P7	203	PEB	OD-C4D-ND	-3.30	121.04	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	P9	203	PEB	OD-C4D-ND	-3.30	121.04	125.93
31	G9	1001	CYC	CMB-C2B-C1B	3.30	128.29	124.17
29	EB	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	EM	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	uJ	203	PEB	CHC-C1D-ND	-3.30	110.11	113.95
29	uL	203	PEB	CHC-C1D-ND	-3.30	110.11	113.95
29	ZB	201	PEB	OD-C4D-ND	-3.30	121.04	125.93
29	ZM	201	PEB	OD-C4D-ND	-3.30	121.04	125.93
29	MQ	407	PEB	OD-C4D-ND	-3.30	121.04	125.93
29	SB	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	hB	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	SM	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	hM	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	AJ	203	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	AL	203	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	QB	204	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	QM	204	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
30	wL	305	PUB	C1C-C2C-C3C	-3.30	103.13	106.78
29	eF	203	PEB	OD-C4D-ND	-3.30	121.04	125.93
29	eI	203	PEB	OD-C4D-ND	-3.30	121.04	125.93
29	F8	202	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	iF	201	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	iI	201	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	qJ	202	PEB	CHC-C1D-ND	-3.30	110.11	113.95
29	qL	202	PEB	CHC-C1D-ND	-3.30	110.11	113.95
29	OB	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	OM	202	PEB	CHA-C1B-NB	-3.30	118.03	124.93
29	b7	202	PEB	C1B-C2B-C3B	-3.30	102.72	106.51
29	b9	202	PEB	C1B-C2B-C3B	-3.30	102.72	106.51
29	C3	201	PEB	CHC-C4C-C3C	-3.30	124.71	130.34
29	CO	201	PEB	CHC-C4C-C3C	-3.30	124.71	130.34
29	aF	201	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	aI	201	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	OR	202	PEB	C2A-C1A-NA	3.30	111.12	108.27
29	hJ	203	PEB	CHB-C4B-C3B	-3.30	117.70	125.32
29	hL	203	PEB	CHB-C4B-C3B	-3.30	117.70	125.32
29	g7	203	PEB	C3B-C4B-NB	3.30	114.85	110.05
29	g9	203	PEB	C3B-C4B-NB	3.30	114.85	110.05
29	AA	202	PEB	C1B-C2B-C3B	-3.30	102.72	106.51
29	AN	202	PEB	C1B-C2B-C3B	-3.30	102.72	106.51
31	K1	1001	CYC	C4A-C3A-C2A	-3.30	102.72	106.51
31	KK	1001	CYC	C4A-C3A-C2A	-3.30	102.72	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	e1	202	PEB	CMB-C2B-C1B	3.30	130.14	125.06
29	eK	202	PEB	CMB-C2B-C1B	3.30	130.14	125.06
29	bJ	203	PEB	CHB-C4B-C3B	-3.30	117.70	125.32
29	bL	203	PEB	CHB-C4B-C3B	-3.30	117.70	125.32
29	VB	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	VM	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	T7	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	T9	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	F1	1002	PEB	OD-C4D-C3D	-3.30	121.99	129.46
29	FK	1002	PEB	OD-C4D-C3D	-3.30	121.99	129.46
29	ZB	202	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	ZM	202	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	QB	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	QM	202	PEB	C4B-C3B-C2B	-3.30	103.13	106.78
29	FG	202	PEB	CMB-C2B-C1B	3.30	130.14	125.06
29	FQ	202	PEB	CMB-C2B-C1B	3.30	130.14	125.06
29	m7	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	m9	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	pJ	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	pL	203	PEB	OD-C4D-ND	-3.30	121.05	125.93
29	HJ	201	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	IJ	203	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	HL	201	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	IL	203	PEB	C2A-C1A-NA	3.30	111.11	108.27
29	Q1	201	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	QK	201	PEB	OA-C1A-C2A	-3.30	123.55	126.17
29	gF	203	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	gI	203	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	WB	202	PEB	CHA-C1B-NB	-3.29	118.04	124.93
29	WM	202	PEB	CHA-C1B-NB	-3.29	118.04	124.93
29	qJ	201	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
29	qL	201	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
29	PJ	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	bJ	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	PL	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	bL	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	zL	501	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	TB	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	YB	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	VF	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	VI	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	zJ	501	PEB	C4B-C3B-C2B	-3.29	103.14	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	TM	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	YM	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	IA	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	MA	405	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	IN	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
31	F1	1001	CYC	C4A-C3A-C2A	-3.29	102.73	106.51
31	FK	1001	CYC	C4A-C3A-C2A	-3.29	102.73	106.51
29	QB	204	PEB	CHA-C1B-NB	-3.29	118.04	124.93
29	QM	204	PEB	CHA-C1B-NB	-3.29	118.04	124.93
29	fJ	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	fL	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	IC	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	IE	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	ZB	202	PEB	C3B-C4B-NB	3.29	114.84	110.05
29	iB	202	PEB	C3B-C4B-NB	3.29	114.84	110.05
29	ZM	202	PEB	C3B-C4B-NB	3.29	114.84	110.05
29	iM	202	PEB	C3B-C4B-NB	3.29	114.84	110.05
29	fJ	203	PEB	CHB-C4B-C3B	-3.29	117.71	125.32
29	fL	203	PEB	CHB-C4B-C3B	-3.29	117.71	125.32
29	e7	201	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	e9	201	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	cJ	201	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
29	cL	201	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
30	yL	303	PUB	CHC-C1D-ND	-3.29	109.56	113.72
29	JJ	203	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	JL	203	PEB	OD-C4D-ND	-3.29	121.05	125.93
29	AF	305	PEB	OA-C1A-C2A	-3.29	123.56	126.17
29	AI	305	PEB	OA-C1A-C2A	-3.29	123.56	126.17
29	WJ	201	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	WL	201	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	WJ	202	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
29	WL	202	PEB	CHC-C4C-C3C	-3.29	124.72	130.34
29	GB	202	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	jB	202	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	GM	202	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	jM	202	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	LG	202	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	LQ	201	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	O7	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	U7	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	O9	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	U9	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZB	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	gF	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	gI	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	ZM	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	LB	203	PEB	OA-C1A-C2A	-3.29	123.56	126.17
29	LM	203	PEB	OA-C1A-C2A	-3.29	123.56	126.17
30	A7	302	PUB	CHC-C1D-ND	-3.29	109.56	113.72
30	A9	302	PUB	CHC-C1D-ND	-3.29	109.56	113.72
29	QB	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	kB	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	QM	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	kM	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	O1	201	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	OK	201	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
31	N1	1001	CYC	C4A-C3A-C2A	-3.29	102.73	106.51
29	e7	203	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	k7	203	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	e9	203	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	k9	203	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	YB	203	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	YM	203	PEB	CHA-C1B-NB	-3.29	118.05	124.93
29	iB	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	RF	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	RI	201	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	iM	202	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
30	xJ	305	PUB	C1C-C2C-C3C	-3.29	103.14	106.78
29	c1	202	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	cK	202	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	FB	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	FM	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	M4	203	PEB	C4B-C3B-C2B	-3.29	103.14	106.78
29	MJ	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	hJ	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	ML	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	hL	202	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	JA	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	JN	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	T7	201	PEB	OD-C4D-ND	-3.29	121.06	125.93
29	T9	201	PEB	OD-C4D-ND	-3.29	121.06	125.93
29	HG	202	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	HQ	202	PEB	CMB-C2B-C1B	3.29	130.13	125.06
29	d7	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	d9	202	PEB	C1B-C2B-C3B	-3.29	102.73	106.51
29	sJ	203	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	sL	203	PEB	C2A-C1A-NA	3.29	111.11	108.27
29	G3	201	PEB	CHC-C4C-C3C	-3.29	124.73	130.34
29	GO	201	PEB	CHC-C4C-C3C	-3.29	124.73	130.34
29	FB	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	FM	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	IB	202	PEB	CHA-C1B-NB	-3.29	118.06	124.93
29	dB	202	PEB	CHA-C1B-NB	-3.29	118.06	124.93
29	IM	202	PEB	CHA-C1B-NB	-3.29	118.06	124.93
29	dM	202	PEB	CHA-C1B-NB	-3.29	118.06	124.93
29	mB	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
29	mM	202	PEB	C3B-C4B-NB	3.29	114.83	110.05
31	D1	1001	CYC	C4A-C3A-C2A	-3.29	102.74	106.51
30	A7	302	PUB	CHA-C1B-C2B	-3.29	124.73	130.34
30	A9	302	PUB	CHA-C1B-C2B	-3.29	124.73	130.34
29	wJ	303	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	RB	202	PEB	C3B-C4B-NB	3.28	114.83	110.05
29	RM	202	PEB	C3B-C4B-NB	3.28	114.83	110.05
29	OJ	201	PEB	CHC-C4C-C3C	-3.28	124.73	130.34
29	OL	201	PEB	CHC-C4C-C3C	-3.28	124.73	130.34
29	dJ	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	dL	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	a7	203	PEB	C3B-C4B-NB	3.28	114.83	110.05
29	a9	203	PEB	C3B-C4B-NB	3.28	114.83	110.05
29	Z1	201	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	ZK	201	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	A7	305	PEB	OA-C1A-C2A	-3.28	123.56	126.17
29	A9	305	PEB	OA-C1A-C2A	-3.28	123.56	126.17
29	mB	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	mM	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	KJ	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	KL	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	XJ	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	XL	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	DG	202	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	DQ	202	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	IA	201	PEB	CHA-C1B-NB	-3.28	118.07	124.93
29	IN	201	PEB	CHA-C1B-NB	-3.28	118.07	124.93
29	KB	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	hB	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	KM	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hM	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	iJ	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	iL	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	eF	201	PEB	CHC-C1D-ND	-3.28	110.14	113.95
29	eI	201	PEB	CHC-C1D-ND	-3.28	110.14	113.95
29	kB	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	cF	202	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	cI	202	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	kM	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	TB	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	aB	203	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	TM	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	aM	203	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	Q7	202	PEB	C1B-C2B-C3B	-3.28	102.74	106.51
29	Q9	202	PEB	C1B-C2B-C3B	-3.28	102.74	106.51
29	TB	203	PEB	OA-C1A-C2A	-3.28	123.56	126.17
29	TM	203	PEB	OA-C1A-C2A	-3.28	123.56	126.17
29	a7	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	a9	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	j1	203	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	jK	203	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	C4	203	PEB	CMA-C2A-C1A	-3.28	105.33	112.40
29	J3	201	PEB	CHB-C4B-NB	-3.28	124.28	128.83
29	JO	201	PEB	CHB-C4B-NB	-3.28	124.28	128.83
29	U1	201	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	UK	201	PEB	CMB-C2B-C1B	3.28	130.12	125.06
31	I7	1001	CYC	CMB-C2B-C1B	3.28	128.26	124.17
31	I9	1001	CYC	CMB-C2B-C1B	3.28	128.26	124.17
29	LB	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	LM	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	L5	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	G8	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	jJ	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	jL	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	g1	202	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	BB	301	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	gK	202	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	BM	301	PEB	CMB-C2B-C1B	3.28	130.12	125.06
29	XB	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	XM	201	PEB	OD-C4D-ND	-3.28	121.07	125.93
31	NK	1001	CYC	C4A-C3A-C2A	-3.28	102.74	106.51
29	TF	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PF	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	PI	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	SJ	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	SL	201	PEB	CHC-C4C-C3C	-3.28	124.74	130.34
29	LA	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	LN	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	mB	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	mM	202	PEB	C4B-C3B-C2B	-3.28	103.15	106.78
29	DA	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	DN	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	mJ	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	mL	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	AJ	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	MJ	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	AL	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	ML	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	VF	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	VI	203	PEB	OD-C4D-ND	-3.28	121.07	125.93
29	DB	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	DM	202	PEB	C3B-C4B-NB	3.28	114.82	110.05
29	eB	202	PEB	OA-C1A-C2A	-3.28	123.57	126.17
29	eM	202	PEB	OA-C1A-C2A	-3.28	123.57	126.17
29	sJ	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	sL	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	AF	301	PEB	C1B-C2B-C3B	-3.28	102.75	106.51
29	AI	301	PEB	C1B-C2B-C3B	-3.28	102.75	106.51
29	gB	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	TJ	203	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	TL	203	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	gM	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	nJ	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	nL	202	PEB	C2A-C1A-NA	3.28	111.10	108.27
29	YJ	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	YL	201	PEB	CHC-C4C-C3C	-3.28	124.75	130.34
29	P7	203	PEB	C3B-C4B-NB	3.28	114.81	110.05
29	P9	203	PEB	C3B-C4B-NB	3.28	114.81	110.05
29	cB	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	cM	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
30	yJ	303	PUB	CHC-C1D-ND	-3.28	109.58	113.72
29	EA	201	PEB	CHA-C1B-NB	-3.28	118.08	124.93
29	EN	201	PEB	CHA-C1B-NB	-3.28	118.08	124.93
29	i1	202	PEB	CMB-C2B-C1B	3.28	130.11	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iK	202	PEB	CMB-C2B-C1B	3.28	130.11	125.06
29	i7	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	i9	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	FB	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	FM	201	PEB	OD-C4D-ND	-3.28	121.08	125.93
29	CA	201	PEB	CHA-C1B-NB	-3.28	118.08	124.93
29	CN	201	PEB	CHA-C1B-NB	-3.28	118.08	124.93
29	BA	202	PEB	C3B-C4B-NB	3.27	114.81	110.05
29	BN	202	PEB	C3B-C4B-NB	3.27	114.81	110.05
29	B3	201	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	UB	202	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	BO	201	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	MQ	401	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	P1	202	PEB	CMB-C2B-C1B	3.27	130.11	125.06
29	PK	202	PEB	CMB-C2B-C1B	3.27	130.11	125.06
29	M4	203	PEB	C2A-C1A-NA	3.27	111.10	108.27
29	pJ	202	PEB	C2A-C1A-NA	3.27	111.10	108.27
29	pL	202	PEB	C2A-C1A-NA	3.27	111.10	108.27
29	JG	202	PEB	CMB-C2B-C1B	3.27	130.11	125.06
29	JQ	202	PEB	CMB-C2B-C1B	3.27	130.11	125.06
29	c7	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	c7	203	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	c9	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	c9	203	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	JB	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	JM	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	D3	202	PEB	OD-C4D-C3D	-3.27	122.04	129.46
31	J9	1001	CYC	C4A-C3A-C2A	-3.27	102.75	106.51
29	uJ	202	PEB	CHC-C4C-C3C	-3.27	124.75	130.34
29	uL	202	PEB	CHC-C4C-C3C	-3.27	124.75	130.34
29	F3	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	FO	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	m7	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	m9	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	b1	201	PEB	C1B-C2B-C3B	-3.27	102.75	106.51
29	bK	201	PEB	C1B-C2B-C3B	-3.27	102.75	106.51
29	YF	201	PEB	CHC-C1D-ND	-3.27	110.15	113.95
29	YI	201	PEB	CHC-C1D-ND	-3.27	110.15	113.95
29	RB	203	PEB	OA-C1A-C2A	-3.27	123.57	126.17
29	RM	203	PEB	OA-C1A-C2A	-3.27	123.57	126.17
29	bJ	203	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	bL	203	PEB	OD-C4D-ND	-3.27	121.08	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	TF	202	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	TI	202	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	AA	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	AN	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	CA	202	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	CN	202	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	iB	203	PEB	OA-C1A-C2A	-3.27	123.57	126.17
29	iM	203	PEB	OA-C1A-C2A	-3.27	123.57	126.17
29	PB	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	VB	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	PM	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	VM	201	PEB	OD-C4D-ND	-3.27	121.08	125.93
29	gF	201	PEB	CHC-C1D-ND	-3.27	110.15	113.95
29	gI	201	PEB	CHC-C1D-ND	-3.27	110.15	113.95
29	PF	201	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	PI	201	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	GA	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	GN	201	PEB	CHA-C1B-NB	-3.27	118.09	124.93
29	aB	202	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
29	aM	202	PEB	C4B-C3B-C2B	-3.27	103.16	106.78
31	G7	1001	CYC	CMB-C2B-C1B	3.27	128.25	124.17
30	A1	304	PUB	OD-C4D-ND	-3.27	121.09	125.93
30	AK	304	PUB	OD-C4D-ND	-3.27	121.09	125.93
29	LA	203	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	iJ	202	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	iL	202	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	LN	203	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	wL	303	PEB	C4B-C3B-C2B	-3.27	103.17	106.78
29	Z1	202	PEB	C1B-C2B-C3B	-3.27	102.75	106.51
29	ZK	202	PEB	C1B-C2B-C3B	-3.27	102.75	106.51
29	eB	201	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	DJ	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	DL	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	eM	201	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	F3	201	PEB	CHB-C4B-NB	-3.27	124.29	128.83
29	FO	201	PEB	CHB-C4B-NB	-3.27	124.29	128.83
29	oJ	201	PEB	CHC-C4C-C3C	-3.27	124.76	130.34
29	oL	201	PEB	CHC-C4C-C3C	-3.27	124.76	130.34
29	RF	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	RI	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
31	K9	1001	CYC	CMB-C2B-C1B	3.27	128.25	124.17
29	k1	202	PEB	CMB-C2B-C1B	3.27	130.10	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kK	202	PEB	CMB-C2B-C1B	3.27	130.10	125.06
29	IJ	201	PEB	CHC-C4C-C3C	-3.27	124.76	130.34
29	IL	201	PEB	CHC-C4C-C3C	-3.27	124.76	130.34
29	i7	203	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	i9	203	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	EJ	201	PEB	CHC-C4C-C3C	-3.27	124.77	130.34
29	EL	201	PEB	CHC-C4C-C3C	-3.27	124.77	130.34
29	FB	202	PEB	C4B-C3B-C2B	-3.27	103.17	106.78
29	FM	202	PEB	C4B-C3B-C2B	-3.27	103.17	106.78
29	GC	202	PEB	C1B-C2B-C3B	-3.27	102.76	106.51
29	GE	202	PEB	C1B-C2B-C3B	-3.27	102.76	106.51
29	E4	201	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	GD	203	PEB	CMA-C2A-C1A	-3.27	105.36	112.40
29	AB	301	PEB	OA-C1A-C2A	-3.27	123.58	126.17
29	CB	202	PEB	C4B-C3B-C2B	-3.27	103.17	106.78
29	CM	202	PEB	C4B-C3B-C2B	-3.27	103.17	106.78
29	XJ	203	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	XL	203	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	kJ	201	PEB	CHC-C4C-C3C	-3.27	124.77	130.34
29	kL	201	PEB	CHC-C4C-C3C	-3.27	124.77	130.34
29	B3	201	PEB	CHA-C1B-NB	-3.27	118.10	124.93
29	BO	201	PEB	CHA-C1B-NB	-3.27	118.10	124.93
29	dD	401	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	QJ	202	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	QL	202	PEB	C2A-C1A-NA	3.27	111.09	108.27
29	H3	201	PEB	CHA-C1B-NB	-3.27	118.10	124.93
29	HO	201	PEB	CHA-C1B-NB	-3.27	118.10	124.93
29	HJ	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	HL	202	PEB	OD-C4D-ND	-3.27	121.09	125.93
29	j7	202	PEB	C1B-C2B-C3B	-3.27	102.76	106.51
29	j9	202	PEB	C1B-C2B-C3B	-3.27	102.76	106.51
29	CD	203	PEB	CMA-C2A-C1A	-3.26	105.37	112.40
29	RJ	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	qJ	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	RL	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	qL	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	ED	202	PEB	CMA-C2A-C1A	-3.26	105.37	112.40
29	CJ	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	eJ	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	mJ	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	CL	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	eL	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mL	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	K4	203	PEB	CMA-C2A-C1A	-3.26	105.37	112.40
29	f1	201	PEB	C1B-C2B-C3B	-3.26	102.76	106.51
29	fK	201	PEB	C1B-C2B-C3B	-3.26	102.76	106.51
29	NJ	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	NL	202	PEB	C2A-C1A-NA	3.26	111.09	108.27
29	P7	201	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	P9	201	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	nJ	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	nL	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	S2	201	PEB	C1B-C2B-C3B	-3.26	102.76	106.51
29	S2	201	PEB	CHC-C1D-ND	-3.26	110.16	113.95
31	1P	1001	CYC	C1B-C2B-C3B	-3.26	104.47	107.87
30	AF	302	PUB	CMD-C2D-C3D	3.26	132.66	127.77
30	AI	302	PUB	CMD-C2D-C3D	3.26	132.66	127.77
29	R7	203	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	R9	203	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	D3	201	PEB	CHB-C4B-NB	-3.26	124.30	128.83
29	DO	201	PEB	CHB-C4B-NB	-3.26	124.30	128.83
29	gJ	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	gL	201	PEB	CHC-C4C-C3C	-3.26	124.77	130.34
29	A7	301	PEB	C1B-C2B-C3B	-3.26	102.76	106.51
29	A9	301	PEB	C1B-C2B-C3B	-3.26	102.76	106.51
29	mB	201	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	mM	201	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	DB	203	PEB	OA-C1A-C2A	-3.26	123.58	126.17
29	DM	203	PEB	OA-C1A-C2A	-3.26	123.58	126.17
29	GJ	201	PEB	CHC-C4C-C3C	-3.26	124.78	130.34
29	UJ	201	PEB	CHC-C4C-C3C	-3.26	124.78	130.34
29	GL	201	PEB	CHC-C4C-C3C	-3.26	124.78	130.34
29	UL	201	PEB	CHC-C4C-C3C	-3.26	124.78	130.34
29	KD	203	PEB	CMA-C2A-C1A	-3.26	105.37	112.40
29	CJ	202	PEB	C2A-C1A-NA	3.26	111.08	108.27
29	CL	202	PEB	C2A-C1A-NA	3.26	111.08	108.27
29	V7	203	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	V9	203	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	GC	201	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	GE	201	PEB	C3B-C4B-NB	3.26	114.79	110.05
29	AM	301	PEB	CAA-C3A-C4A	3.26	121.05	112.67
29	R7	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	k7	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	R9	203	PEB	OD-C4D-ND	-3.26	121.10	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k9	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	DB	201	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	RJ	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	RL	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	DM	201	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	lF	202	PEB	CBA-CAA-C3A	-3.26	106.21	113.47
29	lI	202	PEB	CBA-CAA-C3A	-3.26	106.21	113.47
29	h1	201	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	YB	201	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	hK	201	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	YM	201	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	aF	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	kF	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	aI	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	kI	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	JA	202	PEB	CHC-C1D-ND	-3.26	110.16	113.95
29	iF	201	PEB	CHC-C1D-ND	-3.26	110.16	113.95
29	iI	201	PEB	CHC-C1D-ND	-3.26	110.16	113.95
29	JN	202	PEB	CHC-C1D-ND	-3.26	110.16	113.95
29	IB	202	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	OB	202	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	YB	203	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	zL	501	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	IM	202	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	OM	202	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	YM	203	PEB	C4B-C3B-C2B	-3.26	103.17	106.78
29	UF	203	PEB	CBA-CAA-C3A	-3.26	106.21	113.47
29	UI	203	PEB	CBA-CAA-C3A	-3.26	106.21	113.47
31	M9	1001	CYC	CMB-C2B-C1B	3.26	128.24	124.17
29	KA	201	PEB	CHA-C1B-NB	-3.26	118.12	124.93
29	KN	201	PEB	CHA-C1B-NB	-3.26	118.12	124.93
29	e7	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	e9	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	BJ	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
29	BL	203	PEB	OD-C4D-ND	-3.26	121.10	125.93
31	C7	1001	CYC	CMB-C2B-C1B	3.26	128.24	124.17
31	C9	1001	CYC	CMB-C2B-C1B	3.26	128.24	124.17
31	L1	1001	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
31	LK	1001	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
29	AB	301	PEB	CAA-C3A-C4A	3.26	121.04	112.67
29	jB	202	PEB	C4B-C3B-C2B	-3.26	103.18	106.78
29	jM	202	PEB	C4B-C3B-C2B	-3.26	103.18	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DO	202	PEB	OD-C4D-C3D	-3.26	122.08	129.46
29	I5	203	PEB	CMB-C2B-C1B	3.26	130.08	125.06
29	I8	203	PEB	CMB-C2B-C1B	3.26	130.08	125.06
31	M7	1001	CYC	CMB-C2B-C1B	3.26	128.23	124.17
29	JB	202	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	JM	202	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	Y7	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	Y9	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	ZJ	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	ZL	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	l7	202	PEB	C2A-C1A-NA	3.26	111.08	108.27
29	l9	202	PEB	C2A-C1A-NA	3.26	111.08	108.27
29	g7	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	g9	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	FJ	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	vJ	202	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	FL	203	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	vL	202	PEB	OD-C4D-ND	-3.26	121.11	125.93
29	l7	202	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	l9	202	PEB	C1B-C2B-C3B	-3.26	102.77	106.51
29	TI	201	PEB	CHC-C1D-ND	-3.26	110.17	113.95
29	A5	203	PEB	CMB-C2B-C1B	3.26	130.08	125.06
29	A8	203	PEB	CMB-C2B-C1B	3.26	130.08	125.06
31	K1	1001	CYC	C2A-C1A-NA	3.26	114.78	110.05
31	KK	1001	CYC	C2A-C1A-NA	3.26	114.78	110.05
29	G4	203	PEB	CMA-C2A-C1A	-3.25	105.39	112.40
29	LJ	202	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	LL	202	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	MB	202	PEB	C4B-C3B-C2B	-3.25	103.18	106.78
29	MM	202	PEB	C4B-C3B-C2B	-3.25	103.18	106.78
29	NB	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	NM	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	K5	203	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	K8	203	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	R7	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	R9	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	RB	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	RM	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	PF	201	PEB	CHC-C1D-ND	-3.25	110.17	113.95
29	PI	201	PEB	CHC-C1D-ND	-3.25	110.17	113.95
29	J3	201	PEB	CHA-C1B-NB	-3.25	118.13	124.93
29	JO	201	PEB	CHA-C1B-NB	-3.25	118.13	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KJ	202	PEB	C2A-C1A-NA	3.25	111.08	108.27
29	oJ	202	PEB	C2A-C1A-NA	3.25	111.08	108.27
29	KL	202	PEB	C2A-C1A-NA	3.25	111.08	108.27
29	oL	202	PEB	C2A-C1A-NA	3.25	111.08	108.27
29	H3	201	PEB	CHB-C4B-NB	-3.25	124.31	128.83
29	HO	201	PEB	CHB-C4B-NB	-3.25	124.31	128.83
29	YF	203	PEB	C4B-C3B-C2B	-3.25	103.18	106.78
29	YI	203	PEB	C4B-C3B-C2B	-3.25	103.18	106.78
29	a1	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	BG	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	aK	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	BQ	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	S1	201	PEB	C1B-C2B-C3B	-3.25	102.77	106.51
29	SK	201	PEB	C1B-C2B-C3B	-3.25	102.77	106.51
29	D3	201	PEB	CHA-C1B-NB	-3.25	118.13	124.93
29	DO	201	PEB	CHA-C1B-NB	-3.25	118.13	124.93
29	VJ	202	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	VL	202	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	M4	201	PEB	C2A-C1A-NA	3.25	111.08	108.27
31	K7	1001	CYC	CMB-C2B-C1B	3.25	128.23	124.17
29	k7	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	k9	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	lB	202	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	lM	202	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	QJ	201	PEB	CHC-C4C-C3C	-3.25	124.79	130.34
29	QL	201	PEB	CHC-C4C-C3C	-3.25	124.79	130.34
29	V7	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	V9	201	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	iF	203	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	iI	203	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	fJ	203	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	fL	203	PEB	OD-C4D-ND	-3.25	121.11	125.93
29	V1	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	VK	202	PEB	CMB-C2B-C1B	3.25	130.07	125.06
29	ZF	202	PEB	CBA-CAA-C3A	-3.25	106.23	113.47
29	ZI	202	PEB	CBA-CAA-C3A	-3.25	106.23	113.47
29	CC	202	PEB	C1B-C2B-C3B	-3.25	102.78	106.51
29	CE	202	PEB	C1B-C2B-C3B	-3.25	102.78	106.51
29	FA	202	PEB	CHC-C1D-ND	-3.25	110.17	113.95
29	VF	201	PEB	CHC-C1D-ND	-3.25	110.17	113.95
29	VI	201	PEB	CHC-C1D-ND	-3.25	110.17	113.95
29	FN	202	PEB	CHC-C1D-ND	-3.25	110.17	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PJ	203	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	PL	203	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	DB	201	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	dB	202	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	DM	201	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	dM	202	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	aJ	201	PEB	CHC-C4C-C3C	-3.25	124.80	130.34
29	aL	201	PEB	CHC-C4C-C3C	-3.25	124.80	130.34
29	aF	201	PEB	CHA-C1B-NB	-3.25	118.14	124.93
29	aI	201	PEB	CHA-C1B-NB	-3.25	118.14	124.93
29	uJ	203	PEB	C2A-C1A-NA	3.25	111.07	108.27
29	uL	203	PEB	C2A-C1A-NA	3.25	111.07	108.27
31	J1	1001	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
31	JK	1001	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
29	R1	202	PEB	CMB-C2B-C1B	3.25	130.06	125.06
29	RK	202	PEB	CMB-C2B-C1B	3.25	130.06	125.06
29	a7	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	a9	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
31	HK	1001	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
29	N2	201	PEB	C3B-C4B-NB	3.25	114.77	110.05
29	AC	201	PEB	C3B-C4B-NB	3.25	114.77	110.05
29	AE	201	PEB	C3B-C4B-NB	3.25	114.77	110.05
29	W1	201	PEB	C1B-C2B-C3B	-3.25	102.78	106.51
29	WK	201	PEB	C1B-C2B-C3B	-3.25	102.78	106.51
31	J7	1001	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
29	AM	303	PEB	CHC-C4C-C3C	-3.25	124.80	130.34
29	kJ	202	PEB	C2A-C1A-NA	3.25	111.07	108.27
29	kL	202	PEB	C2A-C1A-NA	3.25	111.07	108.27
29	bF	202	PEB	CBA-CAA-C3A	-3.25	106.24	113.47
29	bI	202	PEB	CBA-CAA-C3A	-3.25	106.24	113.47
29	LB	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	TB	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	LM	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	TM	201	PEB	OD-C4D-ND	-3.25	121.12	125.93
29	F3	201	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	FO	201	PEB	C4B-C3B-C2B	-3.25	103.19	106.78
29	L8	202	PEB	C2A-C1A-NA	3.24	111.07	108.27
31	I1	1001	CYC	C2A-C1A-NA	3.24	114.77	110.05
29	jF	202	PEB	CBA-CAA-C3A	-3.24	106.25	113.47
29	jI	202	PEB	CBA-CAA-C3A	-3.24	106.25	113.47
29	NB	201	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	RB	201	PEB	C4B-C3B-C2B	-3.24	103.19	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NM	201	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	RM	201	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	d1	201	PEB	C1B-C2B-C3B	-3.24	102.78	106.51
29	dK	201	PEB	C1B-C2B-C3B	-3.24	102.78	106.51
29	QR	202	PEB	C1B-C2B-C3B	-3.24	102.78	106.51
29	cF	202	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	cI	202	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	ID	203	PEB	CMA-C2A-C1A	-3.24	105.41	112.40
29	HA	203	PEB	C2A-C1A-NA	3.24	111.07	108.27
29	HN	203	PEB	C2A-C1A-NA	3.24	111.07	108.27
29	V7	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	V9	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	HB	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	VB	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	HM	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	VM	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	GB	202	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	yJ	301	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	yL	301	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	GM	202	PEB	C4B-C3B-C2B	-3.24	103.19	106.78
29	RF	201	PEB	CHA-C1B-NB	-3.24	118.15	124.93
29	RI	201	PEB	CHA-C1B-NB	-3.24	118.15	124.93
29	DA	203	PEB	C2A-C1A-NA	3.24	111.07	108.27
29	DN	203	PEB	C2A-C1A-NA	3.24	111.07	108.27
29	E4	203	PEB	CMA-C2A-C1A	-3.24	105.42	112.40
29	dJ	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	dL	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	I5	202	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	I8	202	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	C5	203	PEB	CMB-C2B-C1B	3.24	130.05	125.06
29	C8	203	PEB	CMB-C2B-C1B	3.24	130.05	125.06
29	IJ	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	IL	203	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	aF	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	cF	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	aI	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	cI	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	mB	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	mM	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
31	L7	1001	CYC	C4A-C3A-C2A	-3.24	102.79	106.51
29	eB	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	eM	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IC	202	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	IE	202	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	Q1	201	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	QK	201	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
31	H1	1001	CYC	C4A-C3A-C2A	-3.24	102.79	106.51
29	GJ	202	PEB	C2A-C1A-NA	3.24	111.06	108.27
29	GL	202	PEB	C2A-C1A-NA	3.24	111.06	108.27
29	EC	201	PEB	C3B-C4B-NB	3.24	114.76	110.05
29	EE	201	PEB	C3B-C4B-NB	3.24	114.76	110.05
29	tJ	202	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	tL	202	PEB	OD-C4D-ND	-3.24	121.13	125.93
29	A7	305	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	A9	305	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	TB	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	TM	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	MA	405	PEB	C3B-C4B-NB	3.24	114.76	110.05
29	L3	201	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	LO	201	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	mF	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	mI	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	yJ	301	PEB	C3B-C4B-NB	3.24	114.76	110.05
29	yL	301	PEB	C3B-C4B-NB	3.24	114.76	110.05
29	iB	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	iM	202	PEB	C1B-C2B-C3B	-3.24	102.79	106.51
29	WB	202	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	WM	202	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
31	IK	1001	CYC	C2A-C1A-NA	3.24	114.76	110.05
29	RF	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	RI	201	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	WF	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47
29	WI	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47
29	XB	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	XM	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	eF	201	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	eI	201	PEB	CHA-C1B-NB	-3.24	118.16	124.93
29	LA	202	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	LN	202	PEB	CHC-C1D-ND	-3.24	110.19	113.95
29	Y7	201	PEB	OD-C4D-ND	-3.24	121.14	125.93
29	Y9	201	PEB	OD-C4D-ND	-3.24	121.14	125.93
29	QF	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47
29	SF	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47
29	QI	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SI	202	PEB	CBA-CAA-C3A	-3.24	106.26	113.47
29	D3	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
29	DO	201	PEB	C4B-C3B-C2B	-3.24	103.20	106.78
31	H7	1001	CYC	C4A-C3A-C2A	-3.23	102.79	106.51
31	H9	1001	CYC	C4A-C3A-C2A	-3.23	102.79	106.51
29	FB	201	PEB	C4B-C3B-C2B	-3.23	103.20	106.78
29	FM	201	PEB	C4B-C3B-C2B	-3.23	103.20	106.78
29	WJ	203	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	IJ	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	WL	203	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	IL	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	VF	201	PEB	CHA-C1B-NB	-3.23	118.17	124.93
29	VI	201	PEB	CHA-C1B-NB	-3.23	118.17	124.93
29	L3	201	PEB	CHB-C4B-NB	-3.23	124.34	128.83
29	LO	201	PEB	CHB-C4B-NB	-3.23	124.34	128.83
29	HA	202	PEB	CHC-C1D-ND	-3.23	110.19	113.95
29	HN	202	PEB	CHC-C1D-ND	-3.23	110.19	113.95
29	AB	303	PEB	CHC-C4C-C3C	-3.23	124.82	130.34
29	UR	202	PEB	C1B-C2B-C3B	-3.23	102.80	106.51
29	I4	203	PEB	CHA-C1B-NB	-3.23	118.17	124.93
29	NJ	203	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	rJ	203	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	NL	203	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	rL	203	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	NO	201	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	QJ	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	mJ	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	QL	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	mL	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	SB	202	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	fB	202	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	xL	303	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	SM	202	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	fM	202	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	g7	201	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	g9	201	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	BA	202	PEB	CHC-C1D-ND	-3.23	110.19	113.95
29	BN	202	PEB	CHC-C1D-ND	-3.23	110.19	113.95
29	T2	201	PEB	C3B-C4B-NB	3.23	114.75	110.05
29	CC	201	PEB	C3B-C4B-NB	3.23	114.75	110.05
29	CE	201	PEB	C3B-C4B-NB	3.23	114.75	110.05
29	B3	201	PEB	CHB-C4B-NB	-3.23	124.34	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BO	201	PEB	CHB-C4B-NB	-3.23	124.34	128.83
29	gF	203	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	gI	203	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	H8	202	PEB	OD-C4D-ND	-3.23	121.14	125.93
29	AM	301	PEB	OA-C1A-C2A	-3.23	123.61	126.17
29	cF	201	PEB	CHA-C1B-NB	-3.23	118.18	124.93
29	cI	201	PEB	CHA-C1B-NB	-3.23	118.18	124.93
29	AJ	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	SJ	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	AL	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	SL	202	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	fF	202	PEB	CBA-CAA-C3A	-3.23	106.28	113.47
29	fI	202	PEB	CBA-CAA-C3A	-3.23	106.28	113.47
30	wJ	305	PUB	C2C-C1C-NC	3.23	114.75	110.05
29	hF	202	PEB	CBA-CAA-C3A	-3.23	106.28	113.47
29	hI	202	PEB	CBA-CAA-C3A	-3.23	106.28	113.47
29	FA	203	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	FN	203	PEB	C2A-C1A-NA	3.23	111.06	108.27
29	J3	201	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	JO	201	PEB	C4B-C3B-C2B	-3.23	103.21	106.78
29	jI	201	PEB	C1B-C2B-C3B	-3.23	102.80	106.51
29	jK	201	PEB	C1B-C2B-C3B	-3.23	102.80	106.51
29	SJ	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	SL	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	AB	302	PEB	CHA-C1B-NB	-3.23	118.18	124.93
29	N3	201	PEB	OD-C4D-ND	-3.23	121.15	125.93
29	aJ	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	aL	201	PEB	C2A-C1A-NA	-3.23	105.49	108.27
29	TI	201	PEB	CHA-C1B-NB	-3.23	118.19	124.93
29	MD	203	PEB	CMA-C2A-C1A	-3.23	105.45	112.40
29	dF	203	PEB	CBA-CAA-C3A	-3.22	106.29	113.47
29	dI	203	PEB	CBA-CAA-C3A	-3.22	106.29	113.47
29	f7	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	f9	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	ID	201	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	sJ	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	sL	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	gF	201	PEB	CHA-C1B-NB	-3.22	118.19	124.93
29	gI	201	PEB	CHA-C1B-NB	-3.22	118.19	124.93
29	OF	202	PEB	CBA-CAA-C3A	-3.22	106.29	113.47
29	OI	202	PEB	CBA-CAA-C3A	-3.22	106.29	113.47
30	QB	201	PUB	CMA-C2A-C1A	3.22	128.97	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	QM	201	PUB	CMA-C2A-C1A	3.22	128.97	121.39
31	E1	1001	CYC	C2A-C1A-NA	3.22	114.74	110.05
31	EK	1001	CYC	C2A-C1A-NA	3.22	114.74	110.05
29	kF	201	PEB	CHC-C1D-ND	-3.22	110.20	113.95
29	kI	201	PEB	CHC-C1D-ND	-3.22	110.20	113.95
29	eF	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	eI	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
31	L9	1001	CYC	C4A-C3A-C2A	-3.22	102.81	106.51
31	C1	1001	CYC	C2A-C1A-NA	3.22	114.73	110.05
29	iF	201	PEB	CHA-C1B-NB	-3.22	118.19	124.93
29	iI	201	PEB	CHA-C1B-NB	-3.22	118.19	124.93
29	jJ	203	PEB	OD-C4D-ND	-3.22	121.16	125.93
29	jL	203	PEB	OD-C4D-ND	-3.22	121.16	125.93
29	H8	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	YJ	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	YL	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	G4	201	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	kF	201	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	kI	201	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	DA	202	PEB	CHC-C1D-ND	-3.22	110.21	113.95
29	DN	202	PEB	CHC-C1D-ND	-3.22	110.21	113.95
29	l7	202	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	l9	202	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	W2	202	PEB	C1B-C2B-C3B	-3.22	102.81	106.51
29	CC	202	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	CE	202	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	UJ	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	eJ	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	UL	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	eL	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	kJ	201	PEB	C2A-C1A-NA	-3.22	105.50	108.27
29	kL	201	PEB	C2A-C1A-NA	-3.22	105.50	108.27
29	G5	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
31	M1	1001	CYC	C2A-C1A-NA	3.22	114.73	110.05
31	MK	1001	CYC	C2A-C1A-NA	3.22	114.73	110.05
29	LB	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	PB	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	iF	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	iI	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	LM	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	PM	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
31	D7	1001	CYC	C4A-C3A-C2A	-3.22	102.81	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	D9	1001	CYC	C4A-C3A-C2A	-3.22	102.81	106.51
29	IJ	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	IL	202	PEB	C2A-C1A-NA	3.22	111.05	108.27
29	GD	201	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	ID	201	PEB	CHA-C1B-NB	-3.22	118.20	124.93
31	D1	1003	CYC	C2A-C1A-NA	3.22	114.73	110.05
29	zJ	501	PEB	OA-C1A-C2A	-3.22	123.61	126.17
29	dD	401	PEB	CHA-C1B-NB	-3.22	118.20	124.93
29	UJ	201	PEB	C2A-C1A-NA	-3.22	105.50	108.27
29	UL	201	PEB	C2A-C1A-NA	-3.22	105.50	108.27
29	HB	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	iB	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	kF	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	kI	203	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	xJ	303	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	HM	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	iM	201	PEB	C4B-C3B-C2B	-3.22	103.22	106.78
29	TR	201	PEB	C3B-C4B-NB	3.22	114.73	110.05
29	IC	201	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	IE	201	PEB	C3B-C4B-NB	3.21	114.72	110.05
31	GK	1001	CYC	C2A-C1A-NA	3.21	114.72	110.05
29	KC	203	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	KE	203	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	PF	201	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	PI	201	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	H3	201	PEB	C4B-C3B-C2B	-3.21	103.22	106.78
29	AM	301	PEB	C4B-C3B-C2B	-3.21	103.22	106.78
29	HO	201	PEB	C4B-C3B-C2B	-3.21	103.22	106.78
29	GD	201	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	AM	302	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	R2	201	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	hJ	203	PEB	OD-C4D-ND	-3.21	121.17	125.93
29	hL	203	PEB	OD-C4D-ND	-3.21	121.17	125.93
29	DB	202	PEB	C1B-C2B-C3B	-3.21	102.82	106.51
29	DM	202	PEB	C1B-C2B-C3B	-3.21	102.82	106.51
29	A1	303	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	AK	303	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	IJ	202	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	IL	202	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	ZB	202	PEB	C1B-C2B-C3B	-3.21	102.82	106.51
29	ZM	202	PEB	C1B-C2B-C3B	-3.21	102.82	106.51
29	PF	203	PEB	C4B-C3B-C2B	-3.21	103.23	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PI	203	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	NR	201	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	CD	201	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	YF	201	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	YI	201	PEB	CHA-C1B-NB	-3.21	118.21	124.93
29	A7	301	PEB	OD-C4D-ND	-3.21	121.17	125.93
29	A9	301	PEB	OD-C4D-ND	-3.21	121.17	125.93
29	e2	402	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	RR	201	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	h7	202	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	h9	202	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	A5	202	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	A8	202	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	Z7	202	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	Z9	202	PEB	C2A-C1A-NA	3.21	111.04	108.27
29	AC	202	PEB	CHA-C1B-NB	-3.21	118.22	124.93
29	AE	202	PEB	CHA-C1B-NB	-3.21	118.22	124.93
29	Q2	202	PEB	C1B-C2B-C3B	-3.21	102.82	106.51
29	cJ	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	cL	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	KA	202	PEB	CMB-C2B-C1B	3.21	130.00	125.06
29	KN	202	PEB	CMB-C2B-C1B	3.21	130.00	125.06
29	kJ	202	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	kL	202	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	MN	405	PEB	C3B-C4B-NB	3.21	114.72	110.05
29	KJ	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	KL	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	mF	201	PEB	CHA-C1B-NB	-3.21	118.22	124.93
29	mI	201	PEB	CHA-C1B-NB	-3.21	118.22	124.93
29	TB	201	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	TM	201	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	uJ	203	PEB	C3B-C4B-NB	3.21	114.71	110.05
29	uL	203	PEB	C3B-C4B-NB	3.21	114.71	110.05
29	U1	202	PEB	C1B-C2B-C3B	-3.21	102.83	106.51
29	UK	202	PEB	C1B-C2B-C3B	-3.21	102.83	106.51
31	N7	1001	CYC	C4A-C3A-C2A	-3.21	102.83	106.51
31	N9	1001	CYC	C4A-C3A-C2A	-3.21	102.83	106.51
29	K5	202	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	K8	202	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	AJ	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	AL	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	O7	201	PEB	C2B-C1B-NB	3.21	117.37	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O9	201	PEB	C2B-C1B-NB	3.21	117.37	110.53
29	gB	202	PEB	C1B-C2B-C3B	-3.21	102.83	106.51
29	gM	202	PEB	C1B-C2B-C3B	-3.21	102.83	106.51
29	AF	301	PEB	OD-C4D-C3D	-3.21	122.20	129.46
29	AI	301	PEB	OD-C4D-C3D	-3.21	122.20	129.46
29	ZB	201	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	ZM	201	PEB	C4B-C3B-C2B	-3.21	103.23	106.78
29	YJ	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	iJ	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	YL	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	iL	201	PEB	C2A-C1A-NA	-3.21	105.51	108.27
29	AG	201	PEB	CHB-C4B-NB	-3.20	124.38	128.83
29	AQ	201	PEB	CHB-C4B-NB	-3.20	124.38	128.83
29	cB	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
29	cM	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
29	BA	203	PEB	C2A-C1A-NA	3.20	111.03	108.27
29	BN	203	PEB	C2A-C1A-NA	3.20	111.03	108.27
29	KC	202	PEB	C3B-C4B-NB	3.20	114.71	110.05
29	KE	202	PEB	C3B-C4B-NB	3.20	114.71	110.05
30	xL	305	PUB	C2C-C1C-NC	3.20	114.71	110.05
29	uJ	202	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	uL	202	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	J5	202	PEB	CHC-C1D-ND	-3.20	110.23	113.95
29	J8	202	PEB	CHC-C1D-ND	-3.20	110.23	113.95
29	j7	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	C8	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	j9	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
31	UP	1001	CYC	C1B-C2B-C3B	-3.20	104.53	107.87
29	kB	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
29	kM	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
29	gB	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	kB	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	RF	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	RI	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	gM	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	kM	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
31	MP	1001	CYC	C1B-C2B-C3B	-3.20	104.53	107.87
29	GJ	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	qJ	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	GL	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	qL	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	J9	1002	PEB	CHB-C4B-NB	-3.20	124.39	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L8	202	PEB	OD-C4D-ND	-3.20	121.19	125.93
29	L1	1002	PEB	CHC-C4C-C3C	-3.20	124.88	130.34
29	LK	1002	PEB	CHC-C4C-C3C	-3.20	124.88	130.34
29	C4	201	PEB	CHA-C1B-NB	-3.20	118.24	124.93
29	I4	201	PEB	C2A-C1A-NA	3.20	111.03	108.27
29	d7	202	PEB	C2A-C1A-NA	3.20	111.03	108.27
29	d9	202	PEB	C2A-C1A-NA	3.20	111.03	108.27
29	oJ	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	oL	201	PEB	C2A-C1A-NA	-3.20	105.51	108.27
29	CA	202	PEB	CMB-C2B-C1B	3.20	129.99	125.06
29	CN	202	PEB	CMB-C2B-C1B	3.20	129.99	125.06
29	K8	202	PEB	CHC-C4C-C3C	-3.20	124.88	130.34
29	L3	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	LO	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	U2	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
29	SR	202	PEB	C1B-C2B-C3B	-3.20	102.83	106.51
31	CK	1001	CYC	C2A-C1A-NA	3.20	114.70	110.05
29	W7	201	PEB	C2B-C1B-NB	3.20	117.36	110.53
29	W9	201	PEB	C2B-C1B-NB	3.20	117.36	110.53
29	cB	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	mF	203	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	mI	203	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	cM	201	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
31	iP	1001	CYC	C4A-C3A-C2A	-3.20	102.83	106.51
31	FP	1001	CYC	C1B-C2B-C3B	-3.20	104.53	107.87
31	oP	1001	CYC	C1B-C2B-C3B	-3.20	104.53	107.87
29	M3	201	PEB	OD-C4D-ND	-3.20	121.19	125.93
29	MO	201	PEB	OD-C4D-ND	-3.20	121.19	125.93
29	d7	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	d9	202	PEB	C4B-C3B-C2B	-3.20	103.24	106.78
29	RB	202	PEB	C1B-C2B-C3B	-3.20	102.84	106.51
29	RM	202	PEB	C1B-C2B-C3B	-3.20	102.84	106.51
31	RP	1001	CYC	C4A-C3A-C2A	-3.20	102.84	106.51
29	GC	202	PEB	CHA-C1B-NB	-3.20	118.24	124.93
29	GE	202	PEB	CHA-C1B-NB	-3.20	118.24	124.93
29	oJ	202	PEB	C3B-C4B-NB	3.20	114.70	110.05
29	oL	202	PEB	C3B-C4B-NB	3.20	114.70	110.05
31	sP	1001	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
29	CJ	201	PEB	C2A-C1A-NA	-3.20	105.52	108.27
29	CL	201	PEB	C2A-C1A-NA	-3.20	105.52	108.27
29	OR	202	PEB	C1B-C2B-C3B	-3.20	102.84	106.51
31	DP	1001	CYC	C1B-C2B-C3B	-3.20	104.54	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	E4	201	PEB	CHA-C1B-NB	-3.20	118.25	124.93
29	U7	201	PEB	C2B-C1B-NB	3.20	117.35	110.53
29	U9	201	PEB	C2B-C1B-NB	3.20	117.35	110.53
29	V2	201	PEB	C3B-C4B-NB	3.20	114.70	110.05
29	MJ	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
29	ML	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
29	VB	201	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	VM	201	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	LB	202	PEB	C1B-C2B-C3B	-3.19	102.84	106.51
29	LM	202	PEB	C1B-C2B-C3B	-3.19	102.84	106.51
29	H5	202	PEB	OD-C4D-ND	-3.19	121.20	125.93
29	C5	202	PEB	CHC-C4C-C3C	-3.19	124.89	130.34
29	C8	202	PEB	CHC-C4C-C3C	-3.19	124.89	130.34
31	QP	1001	CYC	C1B-C2B-C3B	-3.19	104.54	107.87
31	hP	1001	CYC	C1B-C2B-C3B	-3.19	104.54	107.87
29	xL	301	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	L5	202	PEB	OD-C4D-ND	-3.19	121.20	125.93
29	OR	202	PEB	OD-C4D-C3D	-3.19	122.22	129.46
29	U7	202	PEB	C2A-C1A-NA	3.19	111.03	108.27
29	U9	202	PEB	C2A-C1A-NA	3.19	111.03	108.27
29	cJ	202	PEB	C2A-C1A-NA	3.19	111.03	108.27
29	cL	202	PEB	C2A-C1A-NA	3.19	111.03	108.27
29	K5	202	PEB	CHC-C4C-C3C	-3.19	124.89	130.34
29	G8	201	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
30	wL	305	PUB	C2C-C1C-NC	3.19	114.69	110.05
29	sJ	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
29	sL	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
31	jP	1001	CYC	C1B-C2B-C3B	-3.19	104.54	107.87
29	A7	304	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	yJ	301	PEB	CHC-C4C-C3C	-3.19	124.89	130.34
29	yL	301	PEB	CHC-C4C-C3C	-3.19	124.89	130.34
30	AM	304	PUB	C2C-C1C-NC	3.19	114.69	110.05
29	I4	201	PEB	CHA-C1B-NB	-3.19	118.26	124.93
29	TF	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	TI	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	B5	202	PEB	OD-C4D-ND	-3.19	121.20	125.93
29	NO	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	EJ	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
29	EL	201	PEB	C2A-C1A-NA	-3.19	105.52	108.27
29	VR	201	PEB	C3B-C4B-NB	3.19	114.69	110.05
29	ED	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	S7	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	S9	202	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	AB	301	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
29	wL	301	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
31	1P	1001	CYC	C1B-NB-C4B	-3.19	106.61	110.67
29	Q7	201	PEB	C2B-C1B-NB	3.19	117.33	110.53
29	Q9	201	PEB	C2B-C1B-NB	3.19	117.33	110.53
29	AJ	202	PEB	C3B-C4B-NB	3.19	114.69	110.05
29	CJ	202	PEB	C3B-C4B-NB	3.19	114.69	110.05
29	AL	202	PEB	C3B-C4B-NB	3.19	114.69	110.05
29	CL	202	PEB	C3B-C4B-NB	3.19	114.69	110.05
30	AB	304	PUB	C2C-C1C-NC	3.19	114.69	110.05
29	G4	201	PEB	C2A-C1A-NA	3.19	111.02	108.27
29	J3	203	PEB	CHA-C1B-NB	-3.19	118.27	124.93
29	JO	203	PEB	CHA-C1B-NB	-3.19	118.27	124.93
29	MQ	406	PEB	C4B-C3B-C2B	-3.19	103.25	106.78
31	kP	1001	CYC	C1B-NB-C4B	-3.19	106.61	110.67
29	AA	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	IA	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	AN	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	IN	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
30	xJ	305	PUB	C2C-C1C-NC	3.19	114.69	110.05
29	F5	202	PEB	OD-C4D-ND	-3.19	121.21	125.93
31	K7	1001	CYC	C2C-C1C-NC	3.19	111.02	108.27
29	MG	404	PEB	C4B-C3B-C2B	-3.19	103.26	106.78
29	YJ	202	PEB	C3B-C4B-NB	3.19	114.68	110.05
29	YL	202	PEB	C3B-C4B-NB	3.19	114.68	110.05
29	EC	202	PEB	CHA-C1B-NB	-3.19	118.27	124.93
29	EE	202	PEB	CHA-C1B-NB	-3.19	118.27	124.93
29	EA	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	EN	202	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	QB	202	PEB	C1B-C2B-C3B	-3.19	102.85	106.51
29	QM	202	PEB	C1B-C2B-C3B	-3.19	102.85	106.51
31	F9	1001	CYC	C4A-C3A-C2A	-3.19	102.85	106.51
29	Q7	202	PEB	C4B-C3B-C2B	-3.19	103.26	106.78
29	Q9	202	PEB	C4B-C3B-C2B	-3.19	103.26	106.78
29	h1	202	PEB	C2A-C1A-NA	3.19	111.02	108.27
29	hK	202	PEB	C2A-C1A-NA	3.19	111.02	108.27
29	xL	302	PEB	CAA-C3A-C4A	3.19	120.85	112.67
29	AF	305	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	AI	305	PEB	CMB-C2B-C1B	3.19	129.97	125.06
29	h7	201	PEB	C2B-C1B-NB	3.18	117.33	110.53
29	h9	201	PEB	C2B-C1B-NB	3.18	117.33	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GA	202	PEB	CMB-C2B-C1B	3.18	129.97	125.06
29	GN	202	PEB	CMB-C2B-C1B	3.18	129.97	125.06
29	JA	203	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	JN	203	PEB	C2A-C1A-NA	3.18	111.02	108.27
31	pP	1001	CYC	C1B-NB-C4B	-3.18	106.61	110.67
31	wP	1001	CYC	C1B-C2B-C3B	-3.18	104.55	107.87
29	LC	202	PEB	OD-C4D-C3D	-3.18	122.25	129.46
29	LE	202	PEB	OD-C4D-C3D	-3.18	122.25	129.46
31	pP	1001	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
31	lP	1002	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
29	WJ	202	PEB	C2A-C1A-NA	-3.18	105.53	108.27
29	WL	202	PEB	C2A-C1A-NA	-3.18	105.53	108.27
31	M7	1001	CYC	C2C-C1C-NC	3.18	111.02	108.27
30	yL	303	PUB	CHA-C4A-NA	-3.18	110.25	113.95
29	B8	202	PEB	OD-C4D-ND	-3.18	121.22	125.93
30	MA	402	PUB	CAC-CBC-CGC	-3.18	106.75	113.60
29	j7	201	PEB	C2B-C1B-NB	3.18	117.32	110.53
29	j9	201	PEB	C2B-C1B-NB	3.18	117.32	110.53
31	PP	1001	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
29	iJ	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	mJ	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	iL	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	mL	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	AM	301	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	lI	202	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	S7	202	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	S9	202	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	lK	202	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	C5	202	PEB	C4B-C3B-C2B	-3.18	103.26	106.78
29	D1	1002	PEB	CHC-C4C-C3C	-3.18	124.91	130.34
31	QP	1001	CYC	C1B-NB-C4B	-3.18	106.62	110.67
29	AF	305	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	AI	305	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	cJ	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	cL	202	PEB	C3B-C4B-NB	3.18	114.68	110.05
29	TF	201	PEB	OD-C4D-C3D	-3.18	122.25	129.46
29	Z7	202	PEB	C4B-C3B-C2B	-3.18	103.26	106.78
29	Z9	202	PEB	C4B-C3B-C2B	-3.18	103.26	106.78
29	xJ	301	PEB	C4B-C3B-C2B	-3.18	103.26	106.78
29	U1	203	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	UK	203	PEB	C2A-C1A-NA	3.18	111.02	108.27
29	aB	203	PEB	C1B-C2B-C3B	-3.18	102.86	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aM	203	PEB	C1B-C2B-C3B	-3.18	102.86	106.51
29	I5	202	PEB	CHC-C4C-C3C	-3.18	124.91	130.34
29	I8	202	PEB	CHC-C4C-C3C	-3.18	124.91	130.34
29	wJ	301	PEB	C4B-C3B-C2B	-3.18	103.26	106.78
29	KD	201	PEB	CHA-C1B-NB	-3.18	118.28	124.93
29	GD	203	PEB	C1B-C2B-C3B	-3.18	102.86	106.51
29	KD	203	PEB	C1B-C2B-C3B	-3.18	102.86	106.51
29	O7	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
29	O9	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
29	CD	201	PEB	CHA-C1B-NB	-3.18	118.28	124.93
29	J1	1002	PEB	CHC-C4C-C3C	-3.18	124.91	130.34
29	JK	1002	PEB	CHC-C4C-C3C	-3.18	124.91	130.34
31	CP	1001	CYC	C1B-NB-C4B	-3.18	106.62	110.67
29	D3	203	PEB	CHA-C1B-NB	-3.18	118.28	124.93
29	DO	203	PEB	CHA-C1B-NB	-3.18	118.28	124.93
29	G8	202	PEB	OD-C4D-ND	-3.18	121.22	125.93
31	qP	1001	CYC	C1B-C2B-C3B	-3.18	104.55	107.87
29	f7	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	f9	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	EA	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
29	EN	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
29	EG	202	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	IG	202	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	EQ	202	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	IQ	202	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	M2	202	PEB	C1B-C2B-C3B	-3.18	102.86	106.51
30	yJ	302	PUB	CHA-C1B-C2B	-3.18	124.92	130.34
30	yL	302	PUB	CHA-C1B-C2B	-3.18	124.92	130.34
29	S2	201	PEB	C1C-CHB-C4B	-3.18	125.01	128.81
29	K4	201	PEB	CHA-C1B-NB	-3.18	118.29	124.93
29	OJ	202	PEB	C3B-C4B-NB	3.18	114.67	110.05
29	OL	202	PEB	C3B-C4B-NB	3.18	114.67	110.05
31	I7	1001	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
31	I9	1001	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
29	S2	202	PEB	C1B-C2B-C3B	-3.18	102.86	106.51
31	HP	1001	CYC	C1B-C2B-C3B	-3.18	104.56	107.87
29	xJ	302	PEB	CAA-C3A-C4A	3.18	120.83	112.67
29	A5	202	PEB	CHC-C4C-C3C	-3.18	124.92	130.34
29	A8	202	PEB	CHC-C4C-C3C	-3.18	124.92	130.34
29	DK	1002	PEB	CHC-C4C-C3C	-3.18	124.92	130.34
30	QB	201	PUB	C1C-C2C-C3C	-3.18	103.27	106.78
30	QM	201	PUB	C1C-C2C-C3C	-3.18	103.27	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	cP	1001	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
29	W7	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
29	W9	202	PEB	C2A-C1A-NA	3.18	111.01	108.27
30	AF	302	PUB	OD-C4D-ND	-3.18	121.22	125.93
30	AI	302	PUB	OD-C4D-ND	-3.18	121.22	125.93
29	Y7	201	PEB	CHB-C4B-C3B	-3.18	117.98	125.32
29	Y9	201	PEB	CHB-C4B-C3B	-3.18	117.98	125.32
29	m7	203	PEB	OA-C1A-C2A	-3.18	123.65	126.17
29	m9	203	PEB	OA-C1A-C2A	-3.18	123.65	126.17
29	l7	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	l9	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	JB	201	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	JM	201	PEB	C4B-C3B-C2B	-3.18	103.27	106.78
29	AC	203	PEB	OD-C4D-C3D	-3.18	122.27	129.46
29	AE	203	PEB	OD-C4D-C3D	-3.18	122.27	129.46
31	M9	1001	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
29	Z7	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	Z9	201	PEB	C2B-C1B-NB	3.18	117.31	110.53
29	N1	1002	PEB	CHC-C4C-C3C	-3.17	124.92	130.34
29	XR	201	PEB	C3B-C4B-NB	3.17	114.67	110.05
31	AP	1001	CYC	C1B-NB-C4B	-3.17	106.63	110.67
31	OP	1001	CYC	C1B-C2B-C3B	-3.17	104.56	107.87
29	B3	203	PEB	CHA-C1B-NB	-3.17	118.29	124.93
29	BO	203	PEB	CHA-C1B-NB	-3.17	118.29	124.93
29	S7	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	d7	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	S9	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	d9	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	O7	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	O9	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	wJ	302	PEB	CAA-C3A-C4A	3.17	120.82	112.67
29	sJ	202	PEB	C3B-C4B-NB	3.17	114.67	110.05
29	sL	202	PEB	C3B-C4B-NB	3.17	114.67	110.05
29	P7	201	PEB	CHB-C4B-C3B	-3.17	117.99	125.32
29	P9	201	PEB	CHB-C4B-C3B	-3.17	117.99	125.32
29	VF	203	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	VI	203	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	wL	302	PEB	CAA-C3A-C4A	3.17	120.82	112.67
31	NP	1001	CYC	C4A-C3A-C2A	-3.17	102.86	106.51
31	gP	1001	CYC	C4A-C3A-C2A	-3.17	102.86	106.51
31	vP	1001	CYC	C1B-NB-C4B	-3.17	106.63	110.67
29	MR	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	fP	1001	CYC	C1B-C2B-C3B	-3.17	104.56	107.87
31	EP	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
29	J7	1002	PEB	CHB-C4B-NB	-3.17	124.43	128.83
29	gJ	201	PEB	C2A-C1A-NA	-3.17	105.54	108.27
29	gL	201	PEB	C2A-C1A-NA	-3.17	105.54	108.27
29	M4	201	PEB	CHA-C1B-NB	-3.17	118.30	124.93
29	gJ	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
29	gL	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
29	f7	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	f9	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	E4	203	PEB	C1B-C2B-C3B	-3.17	102.87	106.51
31	XP	1001	CYC	C1B-C2B-C3B	-3.17	104.56	107.87
29	b7	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	b9	201	PEB	C2B-C1B-NB	3.17	117.30	110.53
29	L3	202	PEB	CHA-C1B-NB	-3.17	118.30	124.93
29	LO	202	PEB	CHA-C1B-NB	-3.17	118.30	124.93
29	V7	201	PEB	CHB-C4B-C3B	-3.17	118.00	125.32
29	V9	201	PEB	CHB-C4B-C3B	-3.17	118.00	125.32
29	C4	201	PEB	C2A-C1A-NA	3.17	111.01	108.27
29	U7	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	U9	202	PEB	C4B-C3B-C2B	-3.17	103.27	106.78
29	KB	203	PEB	C1B-C2B-C3B	-3.17	102.87	106.51
29	KM	203	PEB	C1B-C2B-C3B	-3.17	102.87	106.51
31	CP	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
31	PP	1001	CYC	C1B-NB-C4B	-3.17	106.63	110.67
29	W7	202	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	W9	202	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
31	kP	1001	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
31	KP	1001	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
29	KJ	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
29	KL	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
31	EP	1001	CYC	C1B-NB-C4B	-3.17	106.63	110.67
31	iP	1001	CYC	C1B-NB-C4B	-3.17	106.63	110.67
29	AF	301	PEB	CHA-C1B-NB	-3.17	118.31	124.93
29	AI	301	PEB	CHA-C1B-NB	-3.17	118.31	124.93
29	BC	202	PEB	OD-C4D-C3D	-3.17	122.28	129.46
29	BE	202	PEB	OD-C4D-C3D	-3.17	122.28	129.46
29	aF	203	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	aI	203	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
31	lP	1001	CYC	C1B-NB-C4B	-3.17	106.64	110.67
29	Y7	203	PEB	OA-C1A-C2A	-3.17	123.65	126.17
29	Y9	203	PEB	OA-C1A-C2A	-3.17	123.65	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	E7	1001	CYC	C2C-C1C-NC	3.17	111.00	108.27
31	E9	1001	CYC	C2C-C1C-NC	3.17	111.00	108.27
31	G9	1001	CYC	C2C-C1C-NC	3.17	111.00	108.27
29	CD	203	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	F1	1002	PEB	CHC-C4C-C3C	-3.17	124.94	130.34
29	FK	1002	PEB	CHC-C4C-C3C	-3.17	124.94	130.34
29	GJ	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
29	GL	202	PEB	C3B-C4B-NB	3.17	114.66	110.05
29	AF	301	PEB	CHC-C4C-C3C	-3.17	124.94	130.34
29	AI	301	PEB	CHC-C4C-C3C	-3.17	124.94	130.34
31	mP	1001	CYC	C1B-NB-C4B	-3.17	106.64	110.67
29	G5	202	PEB	OD-C4D-ND	-3.17	121.24	125.93
29	U1	202	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	F8	201	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	UK	202	PEB	C4B-C3B-C2B	-3.17	103.28	106.78
29	a7	201	PEB	CHB-C4B-C3B	-3.17	118.01	125.32
29	a9	201	PEB	CHB-C4B-C3B	-3.17	118.01	125.32
29	NK	1002	PEB	CHC-C4C-C3C	-3.17	124.94	130.34
29	c7	201	PEB	CHB-C4B-C3B	-3.17	118.01	125.32
29	c9	201	PEB	CHB-C4B-C3B	-3.17	118.01	125.32
29	EJ	202	PEB	C3B-C4B-NB	3.17	114.65	110.05
29	EL	202	PEB	C3B-C4B-NB	3.17	114.65	110.05
31	G9	1001	CYC	C4A-C3A-C2A	-3.16	102.87	106.51
29	MD	203	PEB	C4B-C3B-C2B	-3.16	103.28	106.78
29	d1	202	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	V7	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	V9	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	dK	202	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	G4	203	PEB	C1B-C2B-C3B	-3.16	102.88	106.51
29	aJ	202	PEB	C3B-C4B-NB	3.16	114.65	110.05
29	aL	202	PEB	C3B-C4B-NB	3.16	114.65	110.05
31	nP	1001	CYC	C1B-NB-C4B	-3.16	106.64	110.67
29	P7	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	P9	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	MD	201	PEB	CHA-C1B-NB	-3.16	118.32	124.93
31	M7	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
29	HK	1002	PEB	CHC-C4C-C3C	-3.16	124.94	130.34
29	D3	201	PEB	OD-C4D-ND	-3.16	121.25	125.93
29	DO	201	PEB	OD-C4D-ND	-3.16	121.25	125.93
31	C7	1001	CYC	C2C-C1C-NC	3.16	111.00	108.27
31	C9	1001	CYC	C2C-C1C-NC	3.16	111.00	108.27
29	wL	302	PEB	C4B-C3B-C2B	-3.16	103.28	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K4	203	PEB	C1B-C2B-C3B	-3.16	102.88	106.51
29	F8	202	PEB	OD-C4D-ND	-3.16	121.25	125.93
31	K7	1001	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
31	G7	1001	CYC	C2C-C1C-NC	3.16	111.00	108.27
29	IJ	201	PEB	C2A-C1A-NA	-3.16	105.55	108.27
29	IL	201	PEB	C2A-C1A-NA	-3.16	105.55	108.27
29	C4	203	PEB	C4B-C3B-C2B	-3.16	103.28	106.78
31	HP	1001	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
29	H3	203	PEB	CHA-C1B-NB	-3.16	118.32	124.93
29	HO	203	PEB	CHA-C1B-NB	-3.16	118.32	124.93
29	K4	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	KD	201	PEB	C2A-C1A-NA	3.16	111.00	108.27
29	IG	201	PEB	CHB-C4B-NB	-3.16	124.44	128.83
29	IQ	201	PEB	CHB-C4B-NB	-3.16	124.44	128.83
29	m7	201	PEB	CHB-C4B-C3B	-3.16	118.02	125.32
29	m9	201	PEB	CHB-C4B-C3B	-3.16	118.02	125.32
29	EG	201	PEB	CHB-C4B-NB	-3.16	124.44	128.83
29	EQ	201	PEB	CHB-C4B-NB	-3.16	124.44	128.83
31	SP	1001	CYC	C1B-C2B-C3B	-3.16	104.58	107.87
29	N3	202	PEB	C4B-C3B-C2B	-3.16	103.29	106.78
29	A9	304	PEB	C4B-C3B-C2B	-3.16	103.29	106.78
29	SR	201	PEB	C1B-C2B-C3B	-3.16	102.88	106.51
31	TP	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
29	k7	201	PEB	CHB-C4B-C3B	-3.16	118.03	125.32
29	k9	201	PEB	CHB-C4B-C3B	-3.16	118.03	125.32
31	IP	1001	CYC	C1B-C2B-C3B	-3.16	104.58	107.87
31	E7	1001	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
31	E9	1001	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
29	QJ	202	PEB	C3B-C4B-NB	3.16	114.64	110.05
29	QL	202	PEB	C3B-C4B-NB	3.16	114.64	110.05
31	TP	1001	CYC	C1B-NB-C4B	-3.16	106.65	110.67
29	AF	305	PEB	C1B-C2B-C3B	-3.16	102.88	106.51
29	AI	305	PEB	C1B-C2B-C3B	-3.16	102.88	106.51
31	G7	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
31	rP	1001	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
29	b7	202	PEB	C4B-C3B-C2B	-3.16	103.29	106.78
29	b9	202	PEB	C4B-C3B-C2B	-3.16	103.29	106.78
29	T7	201	PEB	CHB-C4B-C3B	-3.16	118.03	125.32
29	T9	201	PEB	CHB-C4B-C3B	-3.16	118.03	125.32
29	F3	203	PEB	CHA-C1B-NB	-3.16	118.33	124.93
29	FO	203	PEB	CHA-C1B-NB	-3.16	118.33	124.93
29	WJ	203	PEB	C3B-C4B-NB	3.16	114.64	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WL	203	PEB	C3B-C4B-NB	3.16	114.64	110.05
31	tP	1001	CYC	C4A-C3A-C2A	-3.16	102.89	106.51
31	F7	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
31	YP	1000	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
29	R7	201	PEB	CHB-C4B-C3B	-3.15	118.03	125.32
29	R9	201	PEB	CHB-C4B-C3B	-3.15	118.03	125.32
29	zL	501	PEB	OA-C1A-C2A	-3.15	123.67	126.17
31	SP	1001	CYC	C1B-NB-C4B	-3.15	106.65	110.67
29	eJ	202	PEB	C3B-C4B-NB	3.15	114.64	110.05
29	eL	202	PEB	C3B-C4B-NB	3.15	114.64	110.05
31	MP	1001	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
29	GG	201	PEB	CHB-C4B-NB	-3.15	124.45	128.83
29	GQ	201	PEB	CHB-C4B-NB	-3.15	124.45	128.83
31	sP	1001	CYC	C1B-C2B-C3B	-3.15	104.58	107.87
31	C7	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
31	C9	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
31	eP	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
29	KC	201	PEB	OD-C4D-C3D	-3.15	122.31	129.46
29	KE	201	PEB	OD-C4D-C3D	-3.15	122.31	129.46
29	e7	201	PEB	CHB-C4B-C3B	-3.15	118.04	125.32
29	e9	201	PEB	CHB-C4B-C3B	-3.15	118.04	125.32
29	wJ	302	PEB	C4B-C3B-C2B	-3.15	103.29	106.78
31	G7	1001	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
30	yJ	303	PUB	CHA-C4A-NA	-3.15	110.29	113.95
29	C4	201	PEB	CAB-C3B-C4B	3.15	130.59	125.01
29	UF	203	PEB	OD-C4D-ND	-3.15	121.26	125.93
29	UI	203	PEB	OD-C4D-ND	-3.15	121.26	125.93
29	AG	202	PEB	C4B-C3B-C2B	-3.15	103.29	106.78
29	KG	202	PEB	C4B-C3B-C2B	-3.15	103.29	106.78
29	AQ	202	PEB	C4B-C3B-C2B	-3.15	103.29	106.78
29	KQ	202	PEB	C4B-C3B-C2B	-3.15	103.29	106.78
31	C7	1001	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
31	C9	1001	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
29	I4	201	PEB	CAB-C3B-C4B	3.15	130.59	125.01
31	E7	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
31	E9	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
31	gP	1001	CYC	C1B-NB-C4B	-3.15	106.66	110.67
29	g7	201	PEB	C2A-C1A-NA	3.15	110.99	108.27
29	g9	201	PEB	C2A-C1A-NA	3.15	110.99	108.27
31	M9	1001	CYC	C2C-C1C-NC	3.15	110.99	108.27
29	KG	201	PEB	CHB-C4B-NB	-3.15	124.45	128.83
29	KQ	201	PEB	CHB-C4B-NB	-3.15	124.45	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UJ	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	UL	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	B8	202	PEB	C4B-C3B-C2B	-3.15	103.30	106.78
29	L7	1002	PEB	CHB-C4B-NB	-3.15	124.46	128.83
29	qJ	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	qL	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	O1	202	PEB	C2A-C1A-NA	3.15	110.99	108.27
29	OK	202	PEB	C2A-C1A-NA	3.15	110.99	108.27
29	eJ	201	PEB	C2A-C1A-NA	-3.15	105.56	108.27
29	eL	201	PEB	C2A-C1A-NA	-3.15	105.56	108.27
30	MN	402	PUB	CAC-CBC-CGC	-3.15	106.82	113.60
31	K7	1001	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
29	AB	301	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	SJ	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	SL	202	PEB	C3B-C4B-NB	3.15	114.63	110.05
29	xL	302	PEB	C4B-C3B-C2B	-3.15	103.30	106.78
29	J3	202	PEB	C1B-C2B-C3B	-3.15	102.89	106.51
29	JO	202	PEB	C1B-C2B-C3B	-3.15	102.89	106.51
31	M9	1001	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
29	WR	202	PEB	C1B-C2B-C3B	-3.15	102.89	106.51
31	nP	1001	CYC	C1B-C2B-C3B	-3.15	104.59	107.87
31	uP	1001	CYC	C1B-C2B-C3B	-3.15	104.59	107.87
31	fP	1001	CYC	C1B-NB-C4B	-3.15	106.66	110.67
29	HC	202	PEB	OD-C4D-C3D	-3.15	122.33	129.46
29	HE	202	PEB	OD-C4D-C3D	-3.15	122.33	129.46
29	h7	202	PEB	C4B-C3B-C2B	-3.15	103.30	106.78
29	h9	202	PEB	C4B-C3B-C2B	-3.15	103.30	106.78
31	jP	1001	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
31	KI	1001	CYC	C2A-C1A-NA	3.15	114.63	110.05
29	k7	201	PEB	C2A-C1A-NA	3.15	110.99	108.27
29	k9	201	PEB	C2A-C1A-NA	3.15	110.99	108.27
31	K9	1001	CYC	C2C-C1C-NC	3.15	110.99	108.27
29	J3	201	PEB	OD-C4D-ND	-3.15	121.27	125.93
29	JO	201	PEB	OD-C4D-ND	-3.15	121.27	125.93
29	T7	203	PEB	OA-C1A-C2A	-3.15	123.67	126.17
29	T9	203	PEB	OA-C1A-C2A	-3.15	123.67	126.17
29	F5	201	PEB	C4B-C3B-C2B	-3.15	103.30	106.78
29	ZF	202	PEB	OD-C4D-ND	-3.15	121.27	125.93
29	fF	202	PEB	OD-C4D-ND	-3.15	121.27	125.93
29	ZI	202	PEB	OD-C4D-ND	-3.15	121.27	125.93
29	fI	202	PEB	OD-C4D-ND	-3.15	121.27	125.93
31	kP	1001	CYC	C1B-C2B-C3B	-3.15	104.59	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z1	203	PEB	C2A-C1A-NA	3.15	110.98	108.27
29	T7	201	PEB	C2A-C1A-NA	3.15	110.98	108.27
29	T9	201	PEB	C2A-C1A-NA	3.15	110.98	108.27
29	ZK	203	PEB	C2A-C1A-NA	3.15	110.98	108.27
31	DK	1001	CYC	C2C-C1C-NC	3.15	110.98	108.27
31	UP	1001	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
29	MA	401	PEB	OA-C1A-C2A	-3.15	123.67	126.17
31	JP	1001	CYC	C1B-NB-C4B	-3.15	106.66	110.67
31	BP	1001	CYC	C1B-C2B-C3B	-3.15	104.59	107.87
31	M7	1001	CYC	C1A-C2A-C3A	-3.14	103.30	106.78
31	QP	1001	CYC	C1A-C2A-C3A	-3.14	103.30	106.78
31	vP	1001	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
29	i7	201	PEB	CHB-C4B-C3B	-3.14	118.06	125.32
29	i9	201	PEB	CHB-C4B-C3B	-3.14	118.06	125.32
29	OJ	201	PEB	C2A-C1A-NA	-3.14	105.56	108.27
29	OL	201	PEB	C2A-C1A-NA	-3.14	105.56	108.27
31	JP	1001	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
31	tP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
29	i7	201	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	j7	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	i9	201	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	j9	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	BC	203	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	LC	203	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	BE	203	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	LE	203	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	QF	202	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	QI	202	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	g7	201	PEB	CHB-C4B-C3B	-3.14	118.06	125.32
29	g9	201	PEB	CHB-C4B-C3B	-3.14	118.06	125.32
29	xJ	302	PEB	C4B-C3B-C2B	-3.14	103.30	106.78
31	XP	1001	CYC	C1A-C2A-C3A	-3.14	103.30	106.78
31	HP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
31	oP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
29	CG	201	PEB	CHB-C4B-NB	-3.14	124.47	128.83
29	CQ	201	PEB	CHB-C4B-NB	-3.14	124.47	128.83
29	O2	202	PEB	C1B-C2B-C3B	-3.14	102.90	106.51
29	ED	202	PEB	C3B-C4B-NB	3.14	114.62	110.05
31	DP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
31	K9	1001	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
29	W1	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	WK	202	PEB	C2A-C1A-NA	3.14	110.98	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FC	202	PEB	OD-C4D-C3D	-3.14	122.34	129.46
29	FE	202	PEB	OD-C4D-C3D	-3.14	122.34	129.46
31	nP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
29	KB	201	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	KM	201	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	j1	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	Q7	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	Q9	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	jK	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
31	jP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
29	C5	202	PEB	C1B-C2B-C3B	-3.14	102.90	106.51
29	C8	202	PEB	C1B-C2B-C3B	-3.14	102.90	106.51
31	rP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
31	G7	1001	CYC	CHB-C1B-NB	-3.14	119.32	126.06
31	G9	1001	CYC	CHB-C1B-NB	-3.14	119.32	126.06
29	B5	203	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	F7	1002	PEB	CHB-C4B-NB	-3.14	124.47	128.83
31	wP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
29	jF	202	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	jI	202	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	hF	202	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	hI	202	PEB	CHC-C4C-C3C	-3.14	124.98	130.34
29	W1	201	PEB	C4B-C3B-C2B	-3.14	103.31	106.78
29	WK	201	PEB	C4B-C3B-C2B	-3.14	103.31	106.78
29	MD	201	PEB	CAB-C3B-C4B	3.14	130.56	125.01
29	hF	202	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	hI	202	PEB	OD-C4D-ND	-3.14	121.28	125.93
31	XP	1001	CYC	C1B-NB-C4B	-3.14	106.67	110.67
29	B5	202	PEB	C4B-C3B-C2B	-3.14	103.31	106.78
31	BP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
31	OP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
31	oP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
29	KA	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	KN	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
31	I7	1001	CYC	C2C-C1C-NC	3.14	110.98	108.27
31	I9	1001	CYC	C2C-C1C-NC	3.14	110.98	108.27
29	H3	201	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	HO	201	PEB	OD-C4D-ND	-3.14	121.28	125.93
29	A5	202	PEB	C1B-C2B-C3B	-3.14	102.91	106.51
29	A8	202	PEB	C1B-C2B-C3B	-3.14	102.91	106.51
31	DP	1001	CYC	C1A-C2A-C3A	-3.14	103.31	106.78
29	lF	202	PEB	CHC-C4C-C3C	-3.14	124.99	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	II	202	PEB	CHC-C4C-C3C	-3.14	124.99	130.34
29	dD	401	PEB	CAB-C3B-C4B	3.14	130.56	125.01
29	fI	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	fK	202	PEB	C2A-C1A-NA	3.14	110.98	108.27
29	B8	201	PEB	OD-C4D-ND	-3.13	121.29	125.93
31	MP	1001	CYC	C1B-NB-C4B	-3.13	106.68	110.67
29	D3	203	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	DO	203	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	GD	203	PEB	C3B-C4B-NB	3.13	114.61	110.05
31	KF	1001	CYC	C2A-C1A-NA	3.13	114.61	110.05
31	IP	1001	CYC	C1A-C2A-C3A	-3.13	103.31	106.78
31	KP	1001	CYC	C1B-NB-C4B	-3.13	106.68	110.67
31	qP	1001	CYC	C1B-NB-C4B	-3.13	106.68	110.67
29	H7	1002	PEB	CHB-C4B-NB	-3.13	124.48	128.83
29	H9	1002	PEB	CHB-C4B-NB	-3.13	124.48	128.83
29	MJ	202	PEB	C3B-C4B-NB	3.13	114.61	110.05
29	ML	202	PEB	C3B-C4B-NB	3.13	114.61	110.05
29	H1	1002	PEB	CHC-C4C-C3C	-3.13	124.99	130.34
29	M3	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	MO	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
31	BP	1001	CYC	C1B-NB-C4B	-3.13	106.68	110.67
29	L9	1002	PEB	CHB-C4B-NB	-3.13	124.48	128.83
29	GG	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	GQ	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
31	K9	1001	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
29	fI	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	fK	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	c7	203	PEB	OA-C1A-C2A	-3.13	123.68	126.17
29	c9	203	PEB	OA-C1A-C2A	-3.13	123.68	126.17
31	NP	1001	CYC	C1B-NB-C4B	-3.13	106.68	110.67
29	Q1	202	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	bI	202	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	QK	202	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	bK	202	PEB	C2A-C1A-NA	3.13	110.97	108.27
29	B5	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	B8	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	G8	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	CD	201	PEB	CAB-C3B-C4B	3.13	130.54	125.01
31	K7	1001	CYC	CHB-C1B-NB	-3.13	119.34	126.06
29	R7	203	PEB	OA-C1A-C2A	-3.13	123.69	126.17
29	R9	203	PEB	OA-C1A-C2A	-3.13	123.69	126.17
31	fP	1001	CYC	C1A-C2A-C3A	-3.13	103.32	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	RR	203	PEB	CHC-C4C-C3C	-3.13	125.00	130.34
29	F9	1002	PEB	CHB-C4B-NB	-3.13	124.49	128.83
31	uP	1001	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
31	uP	1001	CYC	C1B-NB-C4B	-3.13	106.69	110.67
31	lP	1001	CYC	C4A-C3A-C2A	-3.13	102.92	106.51
29	j1	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	G5	202	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	GD	203	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
29	jK	201	PEB	C4B-C3B-C2B	-3.13	103.32	106.78
31	FP	1001	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
29	A1	303	PEB	C1B-C2B-C3B	-3.13	102.92	106.51
29	AK	303	PEB	C1B-C2B-C3B	-3.13	102.92	106.51
31	GP	1001	CYC	C1B-NB-C4B	-3.13	106.69	110.67
31	UP	1001	CYC	C1B-NB-C4B	-3.13	106.69	110.67
31	hP	1001	CYC	C1A-C2A-C3A	-3.12	103.32	106.78
29	MD	203	PEB	C1B-C2B-C3B	-3.12	102.92	106.51
29	bF	202	PEB	CHC-C4C-C3C	-3.12	125.01	130.34
29	bI	202	PEB	CHC-C4C-C3C	-3.12	125.01	130.34
29	R1	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	CG	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	RK	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	CQ	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	H5	201	PEB	OD-C4D-ND	-3.12	121.30	125.93
29	H8	201	PEB	OD-C4D-ND	-3.12	121.30	125.93
29	ID	203	PEB	C3B-C4B-NB	3.12	114.59	110.05
31	hP	1001	CYC	C1B-NB-C4B	-3.12	106.69	110.67
31	wP	1001	CYC	C1B-NB-C4B	-3.12	106.69	110.67
29	uJ	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	uL	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
31	AP	1001	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
31	MF	1001	CYC	C2A-C1A-NA	3.12	114.59	110.05
31	MI	1001	CYC	C2A-C1A-NA	3.12	114.59	110.05
29	bF	202	PEB	OD-C4D-ND	-3.12	121.30	125.93
29	bI	202	PEB	OD-C4D-ND	-3.12	121.30	125.93
29	mF	201	PEB	C1C-CHB-C4B	3.12	132.54	128.81
29	mI	201	PEB	C1C-CHB-C4B	3.12	132.54	128.81
29	k7	203	PEB	OA-C1A-C2A	-3.12	123.69	126.17
29	k9	203	PEB	OA-C1A-C2A	-3.12	123.69	126.17
29	R7	201	PEB	C2A-C1A-NA	3.12	110.96	108.27
29	R9	201	PEB	C2A-C1A-NA	3.12	110.96	108.27
29	c1	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	L8	201	PEB	C4B-C3B-C2B	-3.12	103.33	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ID	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	cK	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
31	1P	1001	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
31	mP	1001	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
29	MD	203	PEB	C3B-C4B-NB	3.12	114.59	110.05
29	WF	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	WI	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	M3	201	PEB	CHC-C4C-C3C	-3.12	125.02	130.34
29	MO	201	PEB	CHC-C4C-C3C	-3.12	125.02	130.34
29	KD	203	PEB	C3B-C4B-NB	3.12	114.59	110.05
29	S1	201	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	SK	201	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
31	RP	1001	CYC	C1B-NB-C4B	-3.12	106.70	110.67
29	F5	201	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	F8	201	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	BB	301	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	BM	301	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	M4	201	PEB	CAB-C3B-C4B	3.12	130.53	125.01
29	g1	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	H5	201	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	gK	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	B3	201	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	SF	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	SI	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	BO	201	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	E4	203	PEB	C3B-C4B-NB	3.12	114.58	110.05
29	ID	203	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	CD	201	PEB	OA-C1A-C2A	-3.12	123.69	126.17
29	K4	203	PEB	C3B-C4B-NB	3.12	114.58	110.05
30	A1	305	PUB	CAC-C2C-C1C	3.12	130.52	125.01
30	AK	305	PUB	CAC-C2C-C1C	3.12	130.52	125.01
29	L8	201	PEB	OD-C4D-ND	-3.12	121.31	125.93
31	SP	1001	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
29	fF	202	PEB	CHC-C4C-C3C	-3.12	125.02	130.34
29	fI	202	PEB	CHC-C4C-C3C	-3.12	125.02	130.34
29	lF	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	lI	202	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	xJ	303	PEB	O1B-CGB-CBB	-3.12	113.07	123.08
31	IP	1001	CYC	C1B-NB-C4B	-3.12	106.70	110.67
29	SB	201	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	SM	201	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	Z1	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K4	203	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	ZK	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	A1	302	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	AK	302	PEB	OD-C4D-ND	-3.12	121.31	125.93
31	K9	1001	CYC	CHB-C1B-NB	-3.12	119.37	126.06
29	TR	203	PEB	CHC-C4C-C3C	-3.12	125.02	130.34
29	wJ	303	PEB	O1B-CGB-CBB	-3.12	113.07	123.08
29	H3	203	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	HO	203	PEB	OD-C4D-ND	-3.12	121.31	125.93
29	H3	202	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	I3	203	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	HO	202	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	IO	203	PEB	C1B-C2B-C3B	-3.12	102.93	106.51
29	CJ	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	CL	202	PEB	C4B-C3B-C2B	-3.12	103.33	106.78
29	U1	202	PEB	C3B-C4B-NB	3.11	114.58	110.05
29	UK	202	PEB	C3B-C4B-NB	3.11	114.58	110.05
31	C7	1001	CYC	CHB-C1B-NB	-3.11	119.37	126.06
31	C9	1001	CYC	CHB-C1B-NB	-3.11	119.37	126.06
29	JF	1002	PEB	C2A-C1A-NA	3.11	110.96	108.27
29	JI	1002	PEB	C2A-C1A-NA	3.11	110.96	108.27
30	xL	304	PUB	CBD-CAD-C3D	-3.11	103.84	112.43
29	WB	201	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
29	WM	201	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
31	GP	1001	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
29	a7	203	PEB	OA-C1A-C2A	-3.11	123.70	126.17
29	a9	203	PEB	OA-C1A-C2A	-3.11	123.70	126.17
29	E4	201	PEB	CAB-C3B-C4B	3.11	130.52	125.01
29	B5	201	PEB	OD-C4D-ND	-3.11	121.32	125.93
31	I7	1001	CYC	CHB-C1B-NB	-3.11	119.37	126.06
31	I9	1001	CYC	CHB-C1B-NB	-3.11	119.37	126.06
29	FC	203	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
29	FE	203	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
29	C4	203	PEB	C3B-C4B-NB	3.11	114.58	110.05
29	VR	203	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
29	MR	202	PEB	C1B-C2B-C3B	-3.11	102.93	106.51
31	OP	1001	CYC	C1B-NB-C4B	-3.11	106.71	110.67
29	e1	203	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	eK	203	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	ID	201	PEB	CAB-C3B-C4B	3.11	130.51	125.01
29	JF	1002	PEB	C3B-C4B-NB	3.11	114.58	110.05
29	JI	1002	PEB	C3B-C4B-NB	3.11	114.58	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CA	202	PEB	CAB-CBB-CGB	-3.11	106.91	113.60
29	CN	202	PEB	CAB-CBB-CGB	-3.11	106.91	113.60
29	I5	202	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	I8	202	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
31	E7	1001	CYC	CHB-C1B-NB	-3.11	119.38	126.06
31	E9	1001	CYC	CHB-C1B-NB	-3.11	119.38	126.06
31	M9	1001	CYC	CHB-C1B-NB	-3.11	119.38	126.06
29	JC	202	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
29	JE	202	PEB	CHC-C4C-C3C	-3.11	125.03	130.34
31	qP	1001	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
29	e7	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	e9	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
31	G9	1001	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
29	GD	203	PEB	CMB-C2B-C1B	3.11	129.85	125.06
29	KB	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	KM	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	JB	202	PEB	CMB-C2B-C1B	3.11	129.85	125.06
29	JM	202	PEB	CMB-C2B-C1B	3.11	129.85	125.06
29	D7	1002	PEB	CHB-C4B-NB	-3.11	124.51	128.83
29	D9	1002	PEB	CHB-C4B-NB	-3.11	124.51	128.83
29	zJ	501	PEB	CHC-C1D-ND	-3.11	110.34	113.95
31	sP	1001	CYC	C1B-NB-C4B	-3.11	106.71	110.67
29	EC	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	EE	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	MA	404	PEB	OD-C4D-C3D	-3.11	122.42	129.46
30	MA	403	PUB	C1D-CHC-C4C	-3.11	106.60	113.37
31	GF	1001	CYC	C2A-C1A-NA	3.11	114.57	110.05
31	GI	1001	CYC	C2A-C1A-NA	3.11	114.57	110.05
29	MB	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	MM	201	PEB	C1B-C2B-C3B	-3.11	102.94	106.51
29	j1	201	PEB	C3B-C4B-NB	3.11	114.57	110.05
29	jK	201	PEB	C3B-C4B-NB	3.11	114.57	110.05
29	fB	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	fM	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	QF	202	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	QI	202	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	Y1	202	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	AB	302	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	YK	202	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	OR	202	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	GA	202	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	IA	202	PEB	C2A-C1A-NA	3.11	110.95	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gF	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	gI	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	GN	202	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	IN	202	PEB	C2A-C1A-NA	3.11	110.95	108.27
31	D1	1001	CYC	C2C-C1C-NC	3.11	110.95	108.27
29	OB	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	DC	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	DE	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	OF	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	SF	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	OI	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	SI	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	OM	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	TB	202	PEB	CMB-C2B-C1B	3.11	129.85	125.06
29	TM	202	PEB	CMB-C2B-C1B	3.11	129.85	125.06
29	F3	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	FO	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	Q1	201	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	QK	201	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	AM	303	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	eF	201	PEB	C1C-CHB-C4B	3.11	132.52	128.81
29	eI	201	PEB	C1C-CHB-C4B	3.11	132.52	128.81
31	I7	1001	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
31	I9	1001	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
29	Y7	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	c7	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	Y9	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	c9	201	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	yJ	301	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	yL	301	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	I5	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	H8	203	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	GB	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	WF	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	WI	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	GM	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	h1	201	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	J3	203	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	hK	201	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	JO	203	PEB	C4B-C3B-C2B	-3.11	103.34	106.78
29	W1	201	PEB	C3B-C4B-NB	3.11	114.57	110.05
29	WK	201	PEB	C3B-C4B-NB	3.11	114.57	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	X2	202	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	XR	203	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	A3	202	PEB	CHB-C4B-NB	-3.11	124.52	128.83
29	N7	1002	PEB	CHB-C4B-NB	-3.11	124.52	128.83
29	N9	1002	PEB	CHB-C4B-NB	-3.11	124.52	128.83
29	AO	202	PEB	CHB-C4B-NB	-3.11	124.52	128.83
29	b7	202	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	b9	202	PEB	C2A-C1A-NA	3.11	110.95	108.27
29	L3	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	H5	203	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	L5	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	LO	201	PEB	OD-C4D-ND	-3.11	121.33	125.93
29	jB	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
29	jM	201	PEB	CHC-C4C-C3C	-3.11	125.04	130.34
30	wJ	304	PUB	CBD-CAD-C3D	-3.10	103.87	112.43
29	jB	201	PEB	C1B-C2B-C3B	-3.10	102.94	106.51
29	jM	201	PEB	C1B-C2B-C3B	-3.10	102.94	106.51
29	F3	203	PEB	OD-C4D-ND	-3.10	121.33	125.93
29	FO	203	PEB	OD-C4D-ND	-3.10	121.33	125.93
29	P1	203	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	d1	201	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	PK	203	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	dK	201	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	AA	202	PEB	C2A-C1A-NA	3.10	110.95	108.27
29	AN	202	PEB	C2A-C1A-NA	3.10	110.95	108.27
29	V7	203	PEB	OA-C1A-C2A	-3.10	123.70	126.17
29	V9	203	PEB	OA-C1A-C2A	-3.10	123.70	126.17
29	CB	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	IB	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	MB	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	dB	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	CM	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	IM	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	MM	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	dM	201	PEB	CHC-C4C-C3C	-3.10	125.04	130.34
29	f1	201	PEB	C3B-C4B-NB	3.10	114.56	110.05
29	fK	201	PEB	C3B-C4B-NB	3.10	114.56	110.05
31	cP	1001	CYC	C1B-NB-C4B	-3.10	106.72	110.67
29	E4	203	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	b1	201	PEB	C3B-C4B-NB	3.10	114.56	110.05
29	bK	201	PEB	C3B-C4B-NB	3.10	114.56	110.05
29	K5	202	PEB	C1B-C2B-C3B	-3.10	102.94	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K8	202	PEB	C1B-C2B-C3B	-3.10	102.94	106.51
29	F3	203	PEB	C2A-C1A-NA	3.10	110.95	108.27
29	FO	203	PEB	C2A-C1A-NA	3.10	110.95	108.27
29	AF	301	PEB	CMB-C2B-C1B	3.10	129.84	125.06
29	AI	301	PEB	CMB-C2B-C1B	3.10	129.84	125.06
29	OF	202	PEB	OD-C4D-ND	-3.10	121.33	125.93
29	OI	202	PEB	OD-C4D-ND	-3.10	121.33	125.93
31	M7	1001	CYC	CHB-C1B-NB	-3.10	119.40	126.06
29	B3	202	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	IB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	GC	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	GE	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	IM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	BO	202	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	HC	203	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	HE	203	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	MD	203	PEB	CMB-C2B-C1B	3.10	129.84	125.06
29	P2	202	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	PR	202	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	GB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	TF	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	yJ	301	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	yL	301	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	GM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	DF	1002	PEB	C3B-C4B-NB	3.10	114.56	110.05
29	DI	1002	PEB	C3B-C4B-NB	3.10	114.56	110.05
31	EF	1001	CYC	C2A-C1A-NA	3.10	114.56	110.05
31	EI	1001	CYC	C2A-C1A-NA	3.10	114.56	110.05
30	xJ	304	PUB	CBD-CAD-C3D	-3.10	103.88	112.43
29	K4	201	PEB	CAB-C3B-C4B	3.10	130.49	125.01
29	G4	203	PEB	C3B-C4B-NB	3.10	114.56	110.05
29	ZF	202	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	ZI	202	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	xL	303	PEB	O1B-CGB-CBB	-3.10	113.12	123.08
31	FP	1001	CYC	C1B-NB-C4B	-3.10	106.72	110.67
29	N3	201	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	F5	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	F8	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	G8	201	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	QB	203	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	UB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	QM	203	PEB	C1B-C2B-C3B	-3.10	102.95	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	OB	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	OM	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	hB	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	hM	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	G4	201	PEB	CAB-C3B-C4B	3.10	130.49	125.01
29	EB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	EM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	EB	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	EM	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
30	A1	305	PUB	OA-C1A-NA	-3.10	121.34	125.93
30	AK	305	PUB	OA-C1A-NA	-3.10	121.34	125.93
29	H3	203	PEB	C2A-C1A-NA	3.10	110.94	108.27
29	HO	203	PEB	C2A-C1A-NA	3.10	110.94	108.27
29	H8	202	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	oJ	202	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	oL	202	PEB	C4B-C3B-C2B	-3.10	103.35	106.78
29	C4	203	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	OB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	OM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	wL	303	PEB	O1B-CGB-CBB	-3.10	113.13	123.08
29	dF	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	dI	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	UB	201	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	UM	201	PEB	CHC-C4C-C3C	-3.10	125.05	130.34
29	MR	202	PEB	OD-C4D-C3D	-3.10	122.44	129.46
29	AF	305	PEB	C4B-C3B-C2B	-3.10	103.36	106.78
29	AI	305	PEB	C4B-C3B-C2B	-3.10	103.36	106.78
29	Q1	201	PEB	C3B-C4B-NB	3.10	114.55	110.05
29	QK	201	PEB	C3B-C4B-NB	3.10	114.55	110.05
29	R2	203	PEB	CHC-C4C-C3C	-3.10	125.06	130.34
29	B3	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	BO	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	CD	203	PEB	C3B-C4B-NB	3.10	114.55	110.05
29	B8	203	PEB	OD-C4D-ND	-3.10	121.34	125.93
29	I3	202	PEB	CHB-C4B-NB	-3.10	124.53	128.83
29	IO	202	PEB	CHB-C4B-NB	-3.10	124.53	128.83
29	lB	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	CC	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	CE	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	lM	201	PEB	C1B-C2B-C3B	-3.10	102.95	106.51
29	J5	202	PEB	C3B-C4B-NB	3.09	114.55	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J8	202	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	LF	1002	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	LI	1002	PEB	C3B-C4B-NB	3.09	114.55	110.05
31	J1	1001	CYC	C2C-C1C-NC	3.09	110.94	108.27
31	JK	1001	CYC	C2C-C1C-NC	3.09	110.94	108.27
29	KD	203	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	SR	201	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	IC	201	PEB	C1B-C2B-C3B	-3.09	102.95	106.51
29	IE	201	PEB	C1B-C2B-C3B	-3.09	102.95	106.51
29	a1	203	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	aK	203	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	IB	202	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	IM	202	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	HF	1002	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	HI	1002	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	SB	201	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
29	SM	201	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
29	fB	202	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	fM	202	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	S1	202	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	TI	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	SK	202	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	UF	203	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
29	UI	203	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
29	gF	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	iF	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	gI	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	iI	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
30	MN	403	PUB	C1D-CHC-C4C	-3.09	106.64	113.37
29	I5	203	PEB	OD-C4D-ND	-3.09	121.35	125.93
29	I8	203	PEB	OD-C4D-ND	-3.09	121.35	125.93
31	eP	1001	CYC	C1B-NB-C4B	-3.09	106.73	110.67
29	lB	201	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
29	lM	201	PEB	CHC-C4C-C3C	-3.09	125.06	130.34
30	wL	304	PUB	CBD-CAD-C3D	-3.09	103.91	112.43
29	J3	203	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	JO	203	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	b1	201	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	D3	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	bK	201	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	G5	201	PEB	OD-C4D-ND	-3.09	121.35	125.93
29	T2	203	PEB	CHC-C4C-C3C	-3.09	125.06	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YB	201	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	YM	201	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	L3	202	PEB	OD-C4D-ND	-3.09	121.35	125.93
29	LO	202	PEB	OD-C4D-ND	-3.09	121.35	125.93
29	XR	202	PEB	OD-C4D-C3D	-3.09	122.45	129.46
29	IJ	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	IL	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	PF	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	PI	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	dD	401	PEB	OA-C1A-C2A	-3.09	123.72	126.17
29	m7	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	m9	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	J3	202	PEB	C3D-C4D-ND	3.09	113.32	107.26
29	JO	202	PEB	C3D-C4D-ND	3.09	113.32	107.26
29	QR	201	PEB	CHC-C1D-ND	3.09	117.54	113.95
29	S1	201	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	SK	201	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	DQ	203	PEB	C3B-C4B-NB	3.09	114.55	110.05
29	lB	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	lM	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	QJ	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	QL	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	YB	202	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	YM	202	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	NO	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	A5	201	PEB	OD-C4D-ND	-3.09	121.35	125.93
29	JQ	203	PEB	C3B-C4B-NB	3.09	114.54	110.05
29	QB	204	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	UB	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	QM	204	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	MQ	401	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	L5	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	FB	202	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	FM	202	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	dB	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	dM	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	WB	201	PEB	C1B-C2B-C3B	-3.09	102.96	106.51
29	KC	202	PEB	C1B-C2B-C3B	-3.09	102.96	106.51
29	KE	202	PEB	C1B-C2B-C3B	-3.09	102.96	106.51
29	WM	201	PEB	C1B-C2B-C3B	-3.09	102.96	106.51
29	iF	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	iI	201	PEB	C2A-C1A-NA	3.09	110.94	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T1	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	TK	202	PEB	C4B-C3B-C2B	-3.09	103.36	106.78
29	D3	203	PEB	OD-C4D-ND	-3.09	121.36	125.93
29	DO	203	PEB	OD-C4D-ND	-3.09	121.36	125.93
29	dF	203	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	dI	203	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	NR	203	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	H3	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
29	HO	201	PEB	C2A-C1A-NA	3.09	110.94	108.27
31	N1	1001	CYC	C2C-C1C-NC	3.09	110.94	108.27
29	IA	202	PEB	CAB-CBB-CGB	-3.09	106.96	113.60
29	IN	202	PEB	CAB-CBB-CGB	-3.09	106.96	113.60
29	CB	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	CM	202	PEB	OD-C4D-C3D	-3.09	122.46	129.46
29	DO	202	PEB	C1B-C2B-C3B	-3.09	102.96	106.51
29	W2	201	PEB	CHC-C1D-ND	3.09	117.53	113.95
29	DG	203	PEB	C3B-C4B-NB	3.09	114.54	110.05
29	YF	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	YI	201	PEB	C1C-CHB-C4B	3.09	132.50	128.81
29	i1	203	PEB	C4B-C3B-C2B	-3.09	103.37	106.78
29	F5	202	PEB	C4B-C3B-C2B	-3.09	103.37	106.78
29	iK	203	PEB	C4B-C3B-C2B	-3.09	103.37	106.78
29	hB	201	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	hM	201	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	LF	1002	PEB	C2A-C1A-NA	3.09	110.93	108.27
29	LI	1002	PEB	C2A-C1A-NA	3.09	110.93	108.27
29	MD	202	PEB	CHA-C4A-NA	-3.09	121.53	125.20
29	jF	202	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	jI	202	PEB	CHC-C4C-C3C	-3.09	125.07	130.34
29	L5	201	PEB	C4B-C3B-C2B	-3.09	103.37	106.78
29	h1	201	PEB	C3B-C4B-NB	3.09	114.54	110.05
29	hK	201	PEB	C3B-C4B-NB	3.09	114.54	110.05
29	HB	202	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	HM	202	PEB	CMB-C2B-C1B	3.09	129.82	125.06
29	WB	202	PEB	OD-C4D-C3D	-3.09	122.47	129.46
29	WM	202	PEB	OD-C4D-C3D	-3.09	122.47	129.46
29	MN	404	PEB	OD-C4D-C3D	-3.09	122.47	129.46
29	DB	202	PEB	CMB-C2B-C1B	3.09	129.81	125.06
29	DM	202	PEB	CMB-C2B-C1B	3.09	129.81	125.06
29	MB	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	SB	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	MM	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SM	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	KA	202	PEB	CAB-CBB-CGB	-3.08	106.97	113.60
29	KN	202	PEB	CAB-CBB-CGB	-3.08	106.97	113.60
29	S2	201	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	K4	203	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	A3	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	CA	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	CN	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	AO	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
31	IF	1001	CYC	C2A-C1A-NA	3.08	114.53	110.05
31	II	1001	CYC	C2A-C1A-NA	3.08	114.53	110.05
29	hB	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	hM	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	GB	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	GM	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	a7	201	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	a9	201	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	KB	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	KM	202	PEB	OD-C4D-C3D	-3.08	122.47	129.46
29	K5	203	PEB	OD-C4D-ND	-3.08	121.36	125.93
29	G8	203	PEB	OD-C4D-ND	-3.08	121.36	125.93
29	K8	203	PEB	OD-C4D-ND	-3.08	121.36	125.93
29	A8	201	PEB	OD-C4D-ND	-3.08	121.36	125.93
29	L8	202	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	AB	303	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	AJ	202	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	AL	202	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	AA	202	PEB	CAB-CBB-CGB	-3.08	106.97	113.60
29	AN	202	PEB	CAB-CBB-CGB	-3.08	106.97	113.60
29	L5	203	PEB	OD-C4D-ND	-3.08	121.36	125.93
29	H8	201	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	CB	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	dB	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	AC	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	AE	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	CM	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	dM	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	FC	202	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	FE	202	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	kF	201	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	kI	201	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	MA	404	PEB	C4B-C3B-C2B	-3.08	103.37	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	qJ	202	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	qL	202	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	AM	302	PEB	C4B-C3B-C2B	-3.08	103.37	106.78
29	KD	201	PEB	CAB-C3B-C4B	3.08	130.46	125.01
29	A1	303	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	AK	303	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	D3	202	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	QB	203	PEB	CHC-C4C-C3C	-3.08	125.08	130.34
29	QM	203	PEB	CHC-C4C-C3C	-3.08	125.08	130.34
29	CA	201	PEB	OA-C1A-C2A	-3.08	123.72	126.17
29	CN	201	PEB	OA-C1A-C2A	-3.08	123.72	126.17
29	I3	203	PEB	C3D-C4D-ND	3.08	113.30	107.26
29	IO	203	PEB	C3D-C4D-ND	3.08	113.30	107.26
29	G3	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	GO	202	PEB	C2A-C1A-NA	3.08	110.93	108.27
29	RF	201	PEB	C1C-CHB-C4B	3.08	132.49	128.81
29	RI	201	PEB	C1C-CHB-C4B	3.08	132.49	128.81
29	MD	203	PEB	OD-C4D-C3D	-3.08	122.48	129.46
29	O2	201	PEB	CHC-C1D-ND	3.08	117.52	113.95
29	G3	202	PEB	CHB-C4B-NB	-3.08	124.56	128.83
29	GO	202	PEB	CHB-C4B-NB	-3.08	124.56	128.83
29	I8	201	PEB	OD-C4D-ND	-3.08	121.37	125.93
29	GD	201	PEB	CAB-C3B-C4B	3.08	130.46	125.01
29	TF	201	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	aB	202	PEB	OD-C4D-C3D	-3.08	122.48	129.46
29	aM	202	PEB	OD-C4D-C3D	-3.08	122.48	129.46
29	ED	202	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	f7	202	PEB	CMB-C2B-C1B	3.08	129.81	125.06
29	f9	202	PEB	CMB-C2B-C1B	3.08	129.81	125.06
29	NO	201	PEB	CHC-C4C-C3C	-3.08	125.09	130.34
29	H3	203	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	GC	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	GE	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	sJ	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	sL	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	HO	203	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	aB	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	aM	201	PEB	C1B-C2B-C3B	-3.08	102.97	106.51
29	A1	301	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	FF	1002	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	FI	1002	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	AK	301	PEB	C3B-C4B-NB	3.08	114.53	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HQ	203	PEB	C3B-C4B-NB	3.08	114.53	110.05
29	g7	203	PEB	OA-C1A-C2A	-3.08	123.73	126.17
29	g9	203	PEB	OA-C1A-C2A	-3.08	123.73	126.17
29	M3	202	PEB	OD-C4D-C3D	-3.08	122.49	129.46
29	MO	202	PEB	OD-C4D-C3D	-3.08	122.49	129.46
29	F3	202	PEB	C3D-C4D-ND	3.08	113.30	107.26
29	FO	202	PEB	C3D-C4D-ND	3.08	113.30	107.26
29	VB	202	PEB	CMB-C2B-C1B	3.08	129.80	125.06
29	VM	202	PEB	CMB-C2B-C1B	3.08	129.80	125.06
29	K5	202	PEB	OD-C4D-ND	-3.08	121.37	125.93
29	K8	202	PEB	OD-C4D-ND	-3.08	121.37	125.93
29	B5	202	PEB	C3B-C4B-NB	3.08	114.52	110.05
29	B3	203	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	eJ	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	eL	202	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	BO	203	PEB	C4B-C3B-C2B	-3.08	103.38	106.78
29	B3	202	PEB	C3D-C4D-ND	3.08	113.29	107.26
29	BO	202	PEB	C3D-C4D-ND	3.08	113.29	107.26
29	EA	202	PEB	CAB-CBB-CGB	-3.08	106.98	113.60
29	GA	202	PEB	CAB-CBB-CGB	-3.08	106.98	113.60
29	EN	202	PEB	CAB-CBB-CGB	-3.08	106.98	113.60
29	GN	202	PEB	CAB-CBB-CGB	-3.08	106.98	113.60
29	V2	203	PEB	CHC-C4C-C3C	-3.08	125.09	130.34
29	wJ	303	PEB	C3B-C4B-NB	3.08	114.52	110.05
29	K5	201	PEB	OD-C4D-ND	-3.08	121.37	125.93
29	K8	201	PEB	OD-C4D-ND	-3.08	121.37	125.93
29	V2	202	PEB	OD-C4D-C3D	-3.08	122.49	129.46
29	NR	202	PEB	OD-C4D-C3D	-3.08	122.49	129.46
29	VR	202	PEB	OD-C4D-C3D	-3.08	122.49	129.46
29	Z1	202	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	ZK	202	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	H3	202	PEB	C3D-C4D-ND	3.07	113.29	107.26
29	HO	202	PEB	C3D-C4D-ND	3.07	113.29	107.26
29	H5	202	PEB	CMB-C2B-C1B	3.07	129.80	125.06
29	mB	202	PEB	CMB-C2B-C1B	3.07	129.80	125.06
29	mM	202	PEB	CMB-C2B-C1B	3.07	129.80	125.06
29	C3	202	PEB	CHB-C4B-NB	-3.07	124.56	128.83
29	CO	202	PEB	CHB-C4B-NB	-3.07	124.56	128.83
31	CF	1001	CYC	C2A-C1A-NA	3.07	114.52	110.05
31	CI	1001	CYC	C2A-C1A-NA	3.07	114.52	110.05
29	MN	401	PEB	OA-C1A-C2A	-3.07	123.73	126.17
29	K4	203	PEB	CMB-C2B-C1B	3.07	129.80	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AB	303	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	fB	201	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	fM	201	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	YB	203	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	jB	202	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	YM	203	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	jM	202	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	d1	201	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	dK	201	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	B3	203	PEB	C2A-C1A-NA	3.07	110.92	108.27
29	BO	203	PEB	C2A-C1A-NA	3.07	110.92	108.27
29	cJ	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	cL	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	F3	202	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	FO	202	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	e7	203	PEB	OA-C1A-C2A	-3.07	123.73	126.17
29	e9	203	PEB	OA-C1A-C2A	-3.07	123.73	126.17
29	I4	202	PEB	CHA-C4A-NA	-3.07	121.55	125.20
29	N2	203	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	N3	202	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	G4	203	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	IC	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	IE	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	MJ	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	ML	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	SR	201	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	YB	202	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
29	YM	202	PEB	C1B-C2B-C3B	-3.07	102.98	106.51
31	F1	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27
31	FK	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27
29	EB	201	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	aB	201	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	EM	201	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	aM	201	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	L5	202	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	h7	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	h9	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	HC	202	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	HE	202	PEB	C3B-C4B-NB	3.07	114.52	110.05
29	O1	201	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	MA	405	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	gJ	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OK	201	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	gL	202	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	MN	404	PEB	C4B-C3B-C2B	-3.07	103.38	106.78
29	B3	201	PEB	C2A-C1A-NA	3.07	110.92	108.27
29	BO	201	PEB	C2A-C1A-NA	3.07	110.92	108.27
29	X2	201	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	G4	203	PEB	OD-C4D-C3D	-3.07	122.50	129.46
29	W7	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	Z7	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	W9	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	Z9	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	L3	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	LO	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
31	NK	1001	CYC	C2C-C1C-NC	3.07	110.92	108.27
31	1P	1001	CYC	C2B-C1B-NB	3.07	111.48	106.99
29	A1	303	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	F4	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	AK	303	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	A7	304	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	AC	203	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	AE	203	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	E3	202	PEB	CHB-C4B-NB	-3.07	124.57	128.83
29	EO	202	PEB	CHB-C4B-NB	-3.07	124.57	128.83
29	MQ	406	PEB	CHC-C4C-C3C	-3.07	125.10	130.34
29	L5	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	V1	203	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	l1	201	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	VK	203	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	lK	201	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	LC	202	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	LE	202	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	K3	202	PEB	CHB-C4B-NB	-3.07	124.57	128.83
29	KO	202	PEB	CHB-C4B-NB	-3.07	124.57	128.83
29	LB	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	cB	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	LM	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	cM	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	i7	203	PEB	OA-C1A-C2A	-3.07	123.73	126.17
29	i9	203	PEB	OA-C1A-C2A	-3.07	123.73	126.17
29	B8	202	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	G8	202	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	kF	201	PEB	C1C-CHB-C4B	3.07	132.47	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kI	201	PEB	C1C-CHB-C4B	3.07	132.47	128.81
29	m1	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	CC	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	KD	203	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	CE	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	mK	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	MN	405	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	XB	202	PEB	CHC-C4C-C3C	-3.07	125.11	130.34
29	XM	202	PEB	CHC-C4C-C3C	-3.07	125.11	130.34
29	JG	203	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	G8	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	RB	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	iB	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	RM	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	iM	202	PEB	CMB-C2B-C1B	3.07	129.79	125.06
29	B4	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	A9	304	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	F3	203	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	aJ	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	aL	202	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	FO	203	PEB	C4B-C3B-C2B	-3.07	103.39	106.78
29	l1	201	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	lK	201	PEB	C3B-C4B-NB	3.07	114.51	110.05
29	C5	203	PEB	OD-C4D-ND	-3.07	121.39	125.93
29	C8	203	PEB	OD-C4D-ND	-3.07	121.39	125.93
29	RR	202	PEB	OD-C4D-C3D	-3.07	122.52	129.46
29	CD	203	PEB	C1B-C2B-C3B	-3.06	102.99	106.51
29	zJ	501	PEB	OD-C4D-C3D	-3.06	122.52	129.46
29	J3	203	PEB	OD-C4D-ND	-3.06	121.39	125.93
29	JO	203	PEB	OD-C4D-ND	-3.06	121.39	125.93
29	JB	203	PEB	CHC-C4C-C3C	-3.06	125.11	130.34
29	JM	203	PEB	CHC-C4C-C3C	-3.06	125.11	130.34
29	L4	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	BD	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	L8	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	aF	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	aI	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	KC	201	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	KE	201	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	hB	201	PEB	CHC-C1D-ND	-3.06	110.39	113.95
29	hM	201	PEB	CHC-C1D-ND	-3.06	110.39	113.95
29	A1	303	PEB	CHC-C4C-C3C	-3.06	125.11	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AK	303	PEB	CHC-C4C-C3C	-3.06	125.11	130.34
29	mJ	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	mL	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	C5	201	PEB	OD-C4D-ND	-3.06	121.39	125.93
29	C8	201	PEB	OD-C4D-ND	-3.06	121.39	125.93
29	C3	202	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	CO	202	PEB	C2A-C1A-NA	3.06	110.91	108.27
31	L1	1001	CYC	C2C-C1C-NC	3.06	110.91	108.27
31	LK	1001	CYC	C2C-C1C-NC	3.06	110.91	108.27
29	A5	203	PEB	OD-C4D-ND	-3.06	121.39	125.93
29	D3	203	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	kJ	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	kL	202	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	DO	203	PEB	C4B-C3B-C2B	-3.06	103.39	106.78
29	cB	203	PEB	CHC-C4C-C3C	-3.06	125.11	130.34
29	cM	203	PEB	CHC-C4C-C3C	-3.06	125.11	130.34
29	O1	201	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	OK	201	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	G5	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	S7	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	S9	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	gB	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	gM	202	PEB	CMB-C2B-C1B	3.06	129.78	125.06
29	L3	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	VF	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	VI	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	LO	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	X2	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	FB	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	FM	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	NF	1002	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	NI	1002	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	N2	202	PEB	OD-C4D-C3D	-3.06	122.53	129.46
29	zL	501	PEB	OD-C4D-C3D	-3.06	122.53	129.46
29	G5	202	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	YJ	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	YL	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	DB	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	DM	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	k1	203	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	LD	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	kK	203	PEB	C4B-C3B-C2B	-3.06	103.40	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D3	202	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
31	sP	1001	CYC	CAA-C2A-C1A	3.06	130.42	125.01
29	IB	201	PEB	CHC-C1D-ND	-3.06	110.40	113.95
29	IM	201	PEB	CHC-C1D-ND	-3.06	110.40	113.95
29	TI	201	PEB	C1C-CHB-C4B	3.06	132.46	128.81
29	WF	202	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	WI	202	PEB	C3B-C4B-NB	3.06	114.50	110.05
29	kB	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	kM	203	PEB	CHC-C4C-C3C	-3.06	125.12	130.34
29	SJ	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	iJ	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	SL	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	iL	202	PEB	C4B-C3B-C2B	-3.06	103.40	106.78
29	F5	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	F8	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	A8	202	PEB	OD-C4D-ND	-3.06	121.40	125.93
29	LG	201	PEB	CHB-C4B-NB	-3.06	124.59	128.83
29	MQ	402	PEB	CHB-C4B-NB	-3.06	124.59	128.83
29	DA	201	PEB	OD-C4D-ND	-3.06	121.40	125.93
29	DN	201	PEB	OD-C4D-ND	-3.06	121.40	125.93
29	aF	201	PEB	C1C-CHB-C4B	3.06	132.46	128.81
29	aI	201	PEB	C1C-CHB-C4B	3.06	132.46	128.81
29	KA	201	PEB	OA-C1A-C2A	-3.06	123.74	126.17
29	KN	201	PEB	OA-C1A-C2A	-3.06	123.74	126.17
29	kB	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	kM	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	P2	201	PEB	OD-C4D-C3D	-3.06	122.54	129.46
29	J3	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	JO	201	PEB	C2A-C1A-NA	3.06	110.91	108.27
29	E4	203	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	b7	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	b9	202	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	CD	203	PEB	CMB-C2B-C1B	3.06	129.77	125.06
29	G5	203	PEB	OD-C4D-ND	-3.06	121.40	125.93
29	M3	203	PEB	C2A-C1A-NA	3.05	110.91	108.27
29	YF	201	PEB	C2A-C1A-NA	3.05	110.91	108.27
29	YI	201	PEB	C2A-C1A-NA	3.05	110.91	108.27
29	MO	203	PEB	C2A-C1A-NA	3.05	110.91	108.27
29	RB	203	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	RM	203	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	KB	203	PEB	CMB-C2B-C1B	3.05	129.77	125.06
29	KM	203	PEB	CMB-C2B-C1B	3.05	129.77	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	cF	201	PEB	C1C-CHB-C4B	3.05	132.46	128.81
29	cI	201	PEB	C1C-CHB-C4B	3.05	132.46	128.81
29	OR	201	PEB	CHC-C1D-ND	3.05	117.49	113.95
29	H5	202	PEB	C4B-C3B-C2B	-3.05	103.40	106.78
29	AA	201	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	AN	201	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	F8	202	PEB	C4B-C3B-C2B	-3.05	103.41	106.78
29	WJ	203	PEB	C4B-C3B-C2B	-3.05	103.41	106.78
29	WL	203	PEB	C4B-C3B-C2B	-3.05	103.41	106.78
29	BA	201	PEB	OD-C4D-ND	-3.05	121.41	125.93
29	BN	201	PEB	OD-C4D-ND	-3.05	121.41	125.93
29	M2	201	PEB	CHC-C1D-ND	3.05	117.49	113.95
29	MR	201	PEB	CHC-C1D-ND	3.05	117.49	113.95
29	PB	202	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	PM	202	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	FG	201	PEB	CHB-C4B-NB	-3.05	124.59	128.83
29	FQ	201	PEB	CHB-C4B-NB	-3.05	124.59	128.83
29	CD	202	PEB	CHA-C4A-NA	-3.05	121.58	125.20
29	HB	203	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	HM	203	PEB	CHC-C4C-C3C	-3.05	125.13	130.34
29	L8	202	PEB	C3B-C4B-NB	3.05	114.49	110.05
29	KD	203	PEB	CMB-C2B-C1B	3.05	129.76	125.06
29	P7	203	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	P9	203	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	IA	201	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	IN	201	PEB	OA-C1A-C2A	-3.05	123.75	126.17
29	L3	202	PEB	C2A-C1A-NA	3.05	110.90	108.27
29	FF	1002	PEB	C2A-C1A-NA	3.05	110.90	108.27
29	FI	1002	PEB	C2A-C1A-NA	3.05	110.90	108.27
29	LO	202	PEB	C2A-C1A-NA	3.05	110.90	108.27
29	G4	203	PEB	CMB-C2B-C1B	3.05	129.76	125.06
29	mF	201	PEB	CHB-C4B-NB	-3.05	124.60	128.83
29	mI	201	PEB	CHB-C4B-NB	-3.05	124.60	128.83
29	XR	203	PEB	C4B-C3B-C2B	-3.05	103.41	106.78
29	FQ	203	PEB	C3B-C4B-NB	3.05	114.48	110.05
29	C4	203	PEB	OD-C4D-C3D	-3.05	122.55	129.46
29	GD	203	PEB	OD-C4D-C3D	-3.05	122.55	129.46
29	OB	201	PEB	CHC-C1D-ND	-3.05	110.41	113.95
29	OM	201	PEB	CHC-C1D-ND	-3.05	110.41	113.95
29	L8	203	PEB	OD-C4D-ND	-3.05	121.41	125.93
29	T2	202	PEB	OD-C4D-C3D	-3.05	122.55	129.46
29	ED	202	PEB	OD-C4D-C3D	-3.05	122.55	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ID	203	PEB	OD-C4D-C3D	-3.05	122.55	129.46
29	CA	202	PEB	CHB-C4B-C3B	3.05	132.36	125.32
29	CN	202	PEB	CHB-C4B-C3B	3.05	132.36	125.32
29	R7	201	PEB	CHA-C1B-NB	-3.05	118.56	124.93
29	R9	201	PEB	CHA-C1B-NB	-3.05	118.56	124.93
29	VF	201	PEB	C1C-CHB-C4B	3.05	132.45	128.81
29	VI	201	PEB	C1C-CHB-C4B	3.05	132.45	128.81
29	MG	404	PEB	CHC-C4C-C3C	-3.05	125.14	130.34
29	DO	202	PEB	C4B-C3B-C2B	-3.05	103.41	106.78
29	J5	202	PEB	CMC-C3C-C2C	-3.05	119.20	124.94
29	J8	202	PEB	CMC-C3C-C2C	-3.05	119.20	124.94
29	JA	201	PEB	OD-C4D-ND	-3.05	121.42	125.93
29	JN	201	PEB	OD-C4D-ND	-3.05	121.42	125.93
29	GB	201	PEB	CHC-C1D-ND	-3.05	110.41	113.95
29	GM	201	PEB	CHC-C1D-ND	-3.05	110.41	113.95
29	O7	202	PEB	CMB-C2B-C1B	3.05	129.76	125.06
29	O9	202	PEB	CMB-C2B-C1B	3.05	129.76	125.06
29	a7	201	PEB	CHA-C1B-NB	-3.05	118.56	124.93
29	a9	201	PEB	CHA-C1B-NB	-3.05	118.56	124.93
29	bF	202	PEB	CAA-C3A-C2A	-3.05	106.65	114.26
29	bI	202	PEB	CAA-C3A-C2A	-3.05	106.65	114.26
29	d7	202	PEB	CMB-C2B-C1B	3.05	129.75	125.06
29	d9	202	PEB	CMB-C2B-C1B	3.05	129.75	125.06
29	WF	202	PEB	CAA-C3A-C2A	-3.04	106.65	114.26
29	WI	202	PEB	CAA-C3A-C2A	-3.04	106.65	114.26
29	NR	203	PEB	C4B-C3B-C2B	-3.04	103.41	106.78
29	H8	202	PEB	CMB-C2B-C1B	3.04	129.75	125.06
29	D3	201	PEB	C2A-C1A-NA	3.04	110.90	108.27
29	DO	201	PEB	C2A-C1A-NA	3.04	110.90	108.27
29	K4	201	PEB	OA-C1A-C2A	-3.04	123.75	126.17
31	AP	1001	CYC	OC-C1C-C2C	-3.04	123.75	126.17
29	UR	201	PEB	CHC-C1D-ND	3.04	117.48	113.95
30	MN	403	PUB	C2C-C1C-NC	3.04	114.48	110.05
31	M9	1001	CYC	C2A-C1A-NA	3.04	114.48	110.05
29	OF	203	PEB	CHA-C1B-NB	-3.04	118.57	124.93
29	OI	203	PEB	CHA-C1B-NB	-3.04	118.57	124.93
29	I5	201	PEB	C1B-C2B-C3B	-3.04	103.01	106.51
29	I8	201	PEB	C1B-C2B-C3B	-3.04	103.01	106.51
29	mB	203	PEB	CHC-C4C-C3C	-3.04	125.15	130.34
29	mM	203	PEB	CHC-C4C-C3C	-3.04	125.15	130.34
29	EJ	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	EL	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YF	201	PEB	CHB-C4B-NB	-3.04	124.61	128.83
29	YI	201	PEB	CHB-C4B-NB	-3.04	124.61	128.83
29	HG	203	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	LQ	202	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	J4	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	KJ	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	OJ	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	KL	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	OL	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	ZB	203	PEB	CHC-C4C-C3C	-3.04	125.15	130.34
29	ZM	203	PEB	CHC-C4C-C3C	-3.04	125.15	130.34
29	LA	201	PEB	OD-C4D-ND	-3.04	121.42	125.93
29	LN	201	PEB	OD-C4D-ND	-3.04	121.42	125.93
29	I8	202	PEB	CMB-C2B-C1B	3.04	129.75	125.06
29	A8	202	PEB	CMB-C2B-C1B	3.04	129.75	125.06
29	U2	201	PEB	CHC-C1D-ND	3.04	117.48	113.95
29	BG	203	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	CD	203	PEB	OD-C4D-C3D	-3.04	122.57	129.46
29	TR	202	PEB	OD-C4D-C3D	-3.04	122.57	129.46
29	mF	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	mI	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	U7	202	PEB	CMB-C2B-C1B	3.04	129.75	125.06
29	U9	202	PEB	CMB-C2B-C1B	3.04	129.75	125.06
29	R2	202	PEB	OD-C4D-C3D	-3.04	122.57	129.46
29	N3	203	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	RF	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	RI	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	hF	202	PEB	CAA-C3A-C2A	-3.04	106.67	114.26
29	hI	202	PEB	CAA-C3A-C2A	-3.04	106.67	114.26
29	dF	203	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	dI	203	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	I5	202	PEB	OD-C4D-ND	-3.04	121.43	125.93
29	I8	202	PEB	OD-C4D-ND	-3.04	121.43	125.93
29	A8	203	PEB	OD-C4D-ND	-3.04	121.43	125.93
29	YB	202	PEB	CHC-C1D-ND	-3.04	110.42	113.95
29	YM	202	PEB	CHC-C1D-ND	-3.04	110.42	113.95
29	VF	202	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	VI	202	PEB	CHA-C1B-NB	-3.04	118.58	124.93
31	M7	1001	CYC	C2A-C1A-NA	3.04	114.47	110.05
31	MP	1001	CYC	CAA-C2A-C1A	3.04	130.38	125.01
29	BC	202	PEB	C3B-C4B-NB	3.04	114.47	110.05
29	BE	202	PEB	C3B-C4B-NB	3.04	114.47	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aB	203	PEB	CMB-C2B-C1B	3.04	129.74	125.06
29	aM	203	PEB	CMB-C2B-C1B	3.04	129.74	125.06
29	C4	202	PEB	CHA-C4A-NA	-3.04	121.59	125.20
29	C5	202	PEB	OD-C4D-ND	-3.04	121.43	125.93
29	C8	202	PEB	OD-C4D-ND	-3.04	121.43	125.93
29	cF	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	cI	201	PEB	C2A-C1A-NA	3.04	110.89	108.27
29	i7	201	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	i9	201	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	kF	202	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	kI	202	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	gB	203	PEB	CHC-C4C-C3C	-3.04	125.16	130.34
29	gM	203	PEB	CHC-C4C-C3C	-3.04	125.16	130.34
29	k7	201	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	k9	201	PEB	CHA-C1B-NB	-3.04	118.58	124.93
29	FD	202	PEB	C4B-C3B-C2B	-3.04	103.42	106.78
29	iB	203	PEB	CHC-C4C-C3C	-3.04	125.16	130.34
29	iM	203	PEB	CHC-C4C-C3C	-3.04	125.16	130.34
29	NB	202	PEB	C3B-C4B-NB	3.04	114.46	110.05
29	NM	202	PEB	C3B-C4B-NB	3.04	114.46	110.05
29	KB	201	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	fB	201	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	KM	201	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	fM	201	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	ID	201	PEB	OA-C1A-C2A	-3.03	123.76	126.17
31	HP	1001	CYC	CAA-C2A-C1A	3.03	130.38	125.01
29	YF	202	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	YI	202	PEB	CHA-C1B-NB	-3.03	118.59	124.93
31	GF	1001	CYC	OB-C4B-C3B	-3.03	124.75	128.04
31	GI	1001	CYC	OB-C4B-C3B	-3.03	124.75	128.04
29	j7	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06
29	j9	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06
31	IP	1001	CYC	CAA-C2A-C1A	3.03	130.38	125.01
29	KB	201	PEB	C4B-C3B-C2B	-3.03	103.42	106.78
29	KM	201	PEB	C4B-C3B-C2B	-3.03	103.42	106.78
29	c7	201	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	c9	201	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	wL	303	PEB	C3B-C4B-NB	3.03	114.46	110.05
29	BQ	203	PEB	C3B-C4B-NB	3.03	114.46	110.05
29	PF	201	PEB	C2A-C1A-NA	3.03	110.89	108.27
29	PI	201	PEB	C2A-C1A-NA	3.03	110.89	108.27
29	QB	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SF	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06
29	SI	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06
29	QM	202	PEB	CMB-C2B-C1B	3.03	129.74	125.06
29	C3	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	G3	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	K3	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	CO	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	GO	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	KO	202	PEB	CHC-C1D-ND	-3.03	110.42	113.95
29	H8	202	PEB	C3B-C4B-NB	3.03	114.46	110.05
29	iF	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	DG	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	HG	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	iI	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	DQ	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	HQ	201	PEB	CHB-C4B-NB	-3.03	124.62	128.83
29	SF	202	PEB	CAA-C3A-C2A	-3.03	106.68	114.26
29	lF	202	PEB	CAA-C3A-C2A	-3.03	106.68	114.26
29	SI	202	PEB	CAA-C3A-C2A	-3.03	106.68	114.26
29	II	202	PEB	CAA-C3A-C2A	-3.03	106.68	114.26
29	FG	203	PEB	C3B-C4B-NB	3.03	114.46	110.05
29	WB	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	WM	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	PR	201	PEB	OD-C4D-C3D	-3.03	122.59	129.46
29	aF	202	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	aI	202	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	UF	203	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	UI	203	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	L3	202	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	TB	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	TM	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	LO	202	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	C4	203	PEB	CMB-C2B-C1B	3.03	129.73	125.06
31	kP	1001	CYC	CAA-C2A-C1A	3.03	130.37	125.01
29	m7	201	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	m9	201	PEB	CHA-C1B-NB	-3.03	118.59	124.93
29	dF	203	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	dI	203	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	A5	202	PEB	OD-C4D-ND	-3.03	121.44	125.93
29	aB	201	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	aM	201	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
31	H1	1001	CYC	C2C-C1C-NC	3.03	110.89	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	A1	302	PEB	C1B-C2B-C3B	-3.03	103.03	106.51
29	AK	302	PEB	C1B-C2B-C3B	-3.03	103.03	106.51
29	E4	203	PEB	OD-C4D-C3D	-3.03	122.59	129.46
29	I3	202	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	IO	202	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	ZB	202	PEB	CMB-C2B-C1B	3.03	129.73	125.06
29	ZM	202	PEB	CMB-C2B-C1B	3.03	129.73	125.06
29	T7	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	T9	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	NB	202	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	NM	202	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	HF	1002	PEB	C2A-C1A-NA	3.03	110.88	108.27
29	HI	1002	PEB	C2A-C1A-NA	3.03	110.88	108.27
30	yJ	302	PUB	CBA-CAA-C3A	-3.03	108.39	112.98
30	yL	302	PUB	CBA-CAA-C3A	-3.03	108.39	112.98
31	FP	1001	CYC	CAA-C2A-C1A	3.03	130.37	125.01
29	ID	203	PEB	CMB-C2B-C1B	3.03	129.73	125.06
29	AA	202	PEB	CHB-C4B-C3B	3.03	132.32	125.32
29	AN	202	PEB	CHB-C4B-C3B	3.03	132.32	125.32
29	P2	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
31	QP	1001	CYC	C2B-C1B-NB	3.03	111.42	106.99
29	gF	201	PEB	CHB-C4B-NB	-3.03	124.63	128.83
29	gI	201	PEB	CHB-C4B-NB	-3.03	124.63	128.83
29	ZF	202	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	ZI	202	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	bF	202	PEB	C3B-C4B-NB	3.03	114.45	110.05
29	bI	202	PEB	C3B-C4B-NB	3.03	114.45	110.05
29	EA	202	PEB	CHB-C4B-C3B	3.03	132.32	125.32
29	EN	202	PEB	CHB-C4B-C3B	3.03	132.32	125.32
29	N2	203	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	KC	203	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	KE	203	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	WF	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	WI	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	fF	202	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	fI	202	PEB	CAA-C3A-C2A	-3.03	106.69	114.26
29	E4	201	PEB	OA-C1A-C2A	-3.03	123.77	126.17
29	MD	201	PEB	OA-C1A-C2A	-3.03	123.77	126.17
29	e7	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	e9	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
31	DP	1001	CYC	CAA-C2A-C1A	3.03	130.36	125.01
31	fP	1001	CYC	CAA-C2A-C1A	3.03	130.36	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J3	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	MA	405	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	JO	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	GD	202	PEB	CHA-C4A-NA	-3.03	121.61	125.20
29	Y7	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	Y9	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	GJ	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	GL	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	VB	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
29	VM	203	PEB	CHC-C4C-C3C	-3.03	125.17	130.34
31	L9	1001	CYC	CAD-CBD-CGD	-3.03	105.28	113.76
29	UB	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	jB	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	UM	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	jM	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
31	mP	1001	CYC	CHA-C1A-NA	-3.03	124.63	128.83
29	dF	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	dI	201	PEB	CHA-C1B-NB	-3.03	118.60	124.93
29	GA	201	PEB	OA-C1A-C2A	-3.03	123.77	126.17
29	GN	201	PEB	OA-C1A-C2A	-3.03	123.77	126.17
29	eB	202	PEB	CHC-C4C-C3C	-3.03	125.18	130.34
29	eM	202	PEB	CHC-C4C-C3C	-3.03	125.18	130.34
29	EC	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
29	EE	202	PEB	C4B-C3B-C2B	-3.03	103.43	106.78
31	MP	1001	CYC	C2B-C1B-NB	3.03	111.42	106.99
29	SB	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	SM	201	PEB	CHC-C1D-ND	-3.03	110.43	113.95
29	NF	1002	PEB	C2A-C1A-NA	3.03	110.88	108.27
29	eF	201	PEB	C2A-C1A-NA	3.03	110.88	108.27
29	NI	1002	PEB	C2A-C1A-NA	3.03	110.88	108.27
29	eI	201	PEB	C2A-C1A-NA	3.03	110.88	108.27
30	MA	403	PUB	C2C-C1C-NC	3.02	114.45	110.05
31	uP	1001	CYC	CAA-C2A-C1A	3.02	130.36	125.01
29	jF	202	PEB	CAA-C3A-C2A	-3.02	106.70	114.26
29	jI	202	PEB	CAA-C3A-C2A	-3.02	106.70	114.26
29	UF	203	PEB	CMB-C2B-C1B	3.02	129.72	125.06
29	UI	203	PEB	CMB-C2B-C1B	3.02	129.72	125.06
29	MB	201	PEB	CHC-C1D-ND	-3.02	110.44	113.95
29	MM	201	PEB	CHC-C1D-ND	-3.02	110.44	113.95
29	FA	201	PEB	OD-C4D-ND	-3.02	121.45	125.93
29	FN	201	PEB	OD-C4D-ND	-3.02	121.45	125.93
29	Q7	202	PEB	CMB-C2B-C1B	3.02	129.72	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Q9	202	PEB	CMB-C2B-C1B	3.02	129.72	125.06
29	fF	202	PEB	C3B-C4B-NB	3.02	114.45	110.05
29	fI	202	PEB	C3B-C4B-NB	3.02	114.45	110.05
29	xL	303	PEB	C3B-C4B-NB	3.02	114.45	110.05
29	TI	201	PEB	CHB-C4B-NB	-3.02	124.63	128.83
31	J9	1001	CYC	CAD-CBD-CGD	-3.02	105.28	113.76
31	UP	1001	CYC	CAA-C2A-C1A	3.02	130.36	125.01
31	wP	1001	CYC	CAA-C2A-C1A	3.02	130.36	125.01
29	K3	202	PEB	C2A-C1A-NA	3.02	110.88	108.27
29	KO	202	PEB	C2A-C1A-NA	3.02	110.88	108.27
29	F7	1002	PEB	C1B-C2B-C3B	-3.02	103.04	106.51
29	fB	201	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	fM	201	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	BG	201	PEB	CHB-C4B-NB	-3.02	124.63	128.83
29	BQ	201	PEB	CHB-C4B-NB	-3.02	124.63	128.83
31	oP	1001	CYC	CAA-C2A-C1A	3.02	130.36	125.01
31	L7	1001	CYC	CAD-CBD-CGD	-3.02	105.29	113.76
29	I4	201	PEB	OA-C1A-C2A	-3.02	123.77	126.17
29	A7	301	PEB	OA-C1A-C2A	-3.02	123.77	126.17
29	A9	301	PEB	OA-C1A-C2A	-3.02	123.77	126.17
29	UJ	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	UL	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	g7	201	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	g9	201	PEB	CHA-C1B-NB	-3.02	118.61	124.93
31	J7	1001	CYC	CAD-CBD-CGD	-3.02	105.29	113.76
29	OF	202	PEB	CAA-C3A-C2A	-3.02	106.71	114.26
29	OI	202	PEB	CAA-C3A-C2A	-3.02	106.71	114.26
29	hF	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	hI	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	B3	203	PEB	CHC-C4C-C3C	-3.02	125.18	130.34
29	BO	203	PEB	CHC-C4C-C3C	-3.02	125.18	130.34
29	I5	202	PEB	CMB-C2B-C1B	3.02	129.72	125.06
29	P7	201	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	P9	201	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	mF	202	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	mI	202	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	LB	203	PEB	CHC-C4C-C3C	-3.02	125.19	130.34
29	LM	203	PEB	CHC-C4C-C3C	-3.02	125.19	130.34
29	JG	201	PEB	CHB-C4B-NB	-3.02	124.64	128.83
29	JQ	201	PEB	CHB-C4B-NB	-3.02	124.64	128.83
29	iF	202	PEB	CHA-C1B-NB	-3.02	118.61	124.93
29	iI	202	PEB	CHA-C1B-NB	-3.02	118.61	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ID	202	PEB	CHA-C4A-NA	-3.02	121.61	125.20
29	J5	202	PEB	CAB-CBB-CGB	-3.02	107.10	113.60
29	J8	202	PEB	CAB-CBB-CGB	-3.02	107.10	113.60
29	PF	202	PEB	CHA-C1B-NB	-3.02	118.62	124.93
29	PI	202	PEB	CHA-C1B-NB	-3.02	118.62	124.93
29	C5	202	PEB	CMB-C2B-C1B	3.02	129.71	125.06
29	C8	202	PEB	CMB-C2B-C1B	3.02	129.71	125.06
31	OP	1001	CYC	CAA-C2A-C1A	3.02	130.35	125.01
31	QP	1001	CYC	CAA-C2A-C1A	3.02	130.35	125.01
29	UF	203	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	UI	203	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	KD	201	PEB	OA-C1A-C2A	-3.02	123.77	126.17
29	FD	202	PEB	C2A-C1A-NA	3.02	110.88	108.27
29	G3	202	PEB	CMB-C2B-C1B	3.02	129.71	125.06
29	GO	202	PEB	CMB-C2B-C1B	3.02	129.71	125.06
29	F5	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	A5	201	PEB	C1B-C2B-C3B	-3.02	103.04	106.51
29	A8	201	PEB	C1B-C2B-C3B	-3.02	103.04	106.51
29	A5	202	PEB	CMB-C2B-C1B	3.02	129.71	125.06
29	RF	201	PEB	CHB-C4B-NB	-3.02	124.64	128.83
29	RI	201	PEB	CHB-C4B-NB	-3.02	124.64	128.83
29	LA	203	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	LN	203	PEB	C3B-C4B-NB	3.02	114.44	110.05
31	G7	1001	CYC	C2A-C1A-NA	3.02	114.44	110.05
29	C4	201	PEB	OA-C1A-C2A	-3.02	123.77	126.17
29	AM	303	PEB	C1B-C2B-C3B	-3.02	103.04	106.51
29	AC	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	AE	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	bF	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	bI	202	PEB	C4B-C3B-C2B	-3.02	103.44	106.78
29	lF	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	lI	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
30	A1	305	PUB	C2C-C1C-NC	3.02	114.44	110.05
30	AK	305	PUB	C2C-C1C-NC	3.02	114.44	110.05
29	Q1	201	PEB	CHA-C1B-C2B	3.02	132.66	124.90
29	U1	202	PEB	CHA-C1B-C2B	3.02	132.66	124.90
29	QK	201	PEB	CHA-C1B-C2B	3.02	132.66	124.90
29	UK	202	PEB	CHA-C1B-C2B	3.02	132.66	124.90
30	xL	304	PUB	CMD-C2D-C3D	3.02	132.29	127.77
29	UF	201	PEB	CHA-C1B-NB	-3.02	118.62	124.93
29	eF	202	PEB	CHA-C1B-NB	-3.02	118.62	124.93
29	UI	201	PEB	CHA-C1B-NB	-3.02	118.62	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eI	202	PEB	CHA-C1B-NB	-3.02	118.62	124.93
29	G4	202	PEB	CHA-C4A-NA	-3.02	121.62	125.20
31	vP	1001	CYC	OC-C1C-C2C	-3.02	123.78	126.17
29	Q2	201	PEB	CHC-C1D-ND	3.02	117.45	113.95
29	H5	203	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	F8	202	PEB	C3B-C4B-NB	3.02	114.44	110.05
29	l7	202	PEB	CMB-C2B-C1B	3.01	129.71	125.06
29	l9	202	PEB	CMB-C2B-C1B	3.01	129.71	125.06
29	QB	203	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	QM	203	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	V7	201	PEB	CHA-C1B-NB	-3.01	118.63	124.93
29	V9	201	PEB	CHA-C1B-NB	-3.01	118.63	124.93
31	K7	1001	CYC	C2A-C1A-NA	3.01	114.43	110.05
29	K4	202	PEB	CHA-C4A-NA	-3.01	121.62	125.20
29	QF	202	PEB	CMB-C2B-C1B	3.01	129.71	125.06
29	QI	202	PEB	CMB-C2B-C1B	3.01	129.71	125.06
29	HA	201	PEB	OD-C4D-ND	-3.01	121.47	125.93
29	KC	202	PEB	OD-C4D-ND	-3.01	121.47	125.93
29	KE	202	PEB	OD-C4D-ND	-3.01	121.47	125.93
29	HN	201	PEB	OD-C4D-ND	-3.01	121.47	125.93
29	JD	202	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
31	D7	1001	CYC	CAD-CBD-CGD	-3.01	105.31	113.76
31	D9	1001	CYC	CAD-CBD-CGD	-3.01	105.31	113.76
29	LG	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	D3	203	PEB	CHC-C4C-C3C	-3.01	125.20	130.34
29	DO	203	PEB	CHC-C4C-C3C	-3.01	125.20	130.34
29	KD	202	PEB	CHA-C4A-NA	-3.01	121.62	125.20
29	VF	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
29	VI	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
30	MA	402	PUB	CMD-C2D-C3D	3.01	132.29	127.77
29	QF	202	PEB	CAA-C3A-C2A	-3.01	106.73	114.26
29	QI	202	PEB	CAA-C3A-C2A	-3.01	106.73	114.26
29	aF	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
29	aI	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
29	A3	202	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	AO	202	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	HA	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	SF	202	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	SI	202	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	HN	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	UB	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	QF	202	PEB	C4B-C3B-C2B	-3.01	103.45	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QI	202	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	UM	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
31	H7	1001	CYC	CAD-CBD-CGD	-3.01	105.31	113.76
31	H9	1001	CYC	CAD-CBD-CGD	-3.01	105.31	113.76
31	kP	1001	CYC	C2B-C1B-NB	3.01	111.40	106.99
29	DO	202	PEB	CHC-C4C-C3C	-3.01	125.20	130.34
29	ZF	202	PEB	CMB-C2B-C1B	3.01	129.70	125.06
29	ZI	202	PEB	CMB-C2B-C1B	3.01	129.70	125.06
29	PF	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
29	PI	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
31	CP	1001	CYC	CHA-C1A-NA	-3.01	124.65	128.83
29	dB	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	dM	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	IA	202	PEB	CHB-C4B-C3B	3.01	132.28	125.32
29	IN	202	PEB	CHB-C4B-C3B	3.01	132.28	125.32
29	B8	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
31	BP	1001	CYC	CAA-C2A-C1A	3.01	130.34	125.01
29	xJ	303	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	dI	201	PEB	CHA-C1B-C2B	3.01	132.64	124.90
29	dK	201	PEB	CHA-C1B-C2B	3.01	132.64	124.90
29	B8	202	PEB	CMB-C2B-C1B	3.01	129.70	125.06
29	jF	202	PEB	CMB-C2B-C1B	3.01	129.70	125.06
29	jI	202	PEB	CMB-C2B-C1B	3.01	129.70	125.06
29	H8	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	LB	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	LM	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
31	G9	1001	CYC	C2A-C1A-NA	3.01	114.43	110.05
29	DF	1002	PEB	C2A-C1A-NA	3.01	110.87	108.27
29	DI	1002	PEB	C2A-C1A-NA	3.01	110.87	108.27
29	NO	203	PEB	C2A-C1A-NA	3.01	110.87	108.27
29	E3	202	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	QB	203	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	QM	203	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	EO	202	PEB	CHC-C1D-ND	-3.01	110.45	113.95
29	WR	201	PEB	CHC-C1D-ND	3.01	117.44	113.95
29	CG	202	PEB	C1B-C2B-C3B	-3.01	103.05	106.51
29	CQ	202	PEB	C1B-C2B-C3B	-3.01	103.05	106.51
29	BA	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
29	BN	203	PEB	C3B-C4B-NB	3.01	114.43	110.05
31	C7	1001	CYC	C2A-C1A-NA	3.01	114.43	110.05
31	C9	1001	CYC	C2A-C1A-NA	3.01	114.43	110.05
31	qP	1001	CYC	CAA-C2A-C1A	3.01	130.33	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YB	202	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	YM	202	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	M4	202	PEB	CHA-C4A-NA	-3.01	121.63	125.20
29	NO	201	PEB	C3B-C4B-NB	3.01	114.42	110.05
29	kF	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
29	kI	201	PEB	CHB-C4B-NB	-3.01	124.65	128.83
31	HK	1001	CYC	C2C-C1C-NC	3.01	110.87	108.27
31	fP	1001	CYC	C2B-C1B-NB	3.01	111.39	106.99
31	SP	1001	CYC	CAA-C2A-C1A	3.01	130.33	125.01
29	WB	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
29	WM	201	PEB	C4B-C3B-C2B	-3.01	103.45	106.78
31	F9	1001	CYC	CAD-CBD-CGD	-3.01	105.33	113.76
29	KA	202	PEB	CHB-C4B-C3B	3.01	132.27	125.32
29	KN	202	PEB	CHB-C4B-C3B	3.01	132.27	125.32
29	eF	201	PEB	CHB-C4B-NB	-3.01	124.66	128.83
29	eI	201	PEB	CHB-C4B-NB	-3.01	124.66	128.83
31	XP	1001	CYC	CAA-C2A-C1A	3.01	130.33	125.01
29	C8	201	PEB	C1B-C2B-C3B	-3.01	103.06	106.51
29	GA	202	PEB	CHB-C4B-C3B	3.01	132.27	125.32
29	GN	202	PEB	CHB-C4B-C3B	3.01	132.27	125.32
31	DP	1001	CYC	C2B-C1B-NB	3.01	111.39	106.99
29	hB	201	PEB	C4B-C3B-C2B	-3.01	103.46	106.78
29	jB	201	PEB	C4B-C3B-C2B	-3.01	103.46	106.78
29	hM	201	PEB	C4B-C3B-C2B	-3.01	103.46	106.78
29	jM	201	PEB	C4B-C3B-C2B	-3.01	103.46	106.78
29	b1	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	bK	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	OF	202	PEB	C3B-C4B-NB	3.01	114.42	110.05
29	OI	202	PEB	C3B-C4B-NB	3.01	114.42	110.05
31	lP	1001	CYC	CHA-C1A-NA	-3.01	124.66	128.83
29	S1	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	h1	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	j1	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	SK	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	hK	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	jK	201	PEB	CHA-C1B-C2B	3.01	132.63	124.90
29	hF	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	hI	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	DB	203	PEB	C3B-C4B-NB	3.00	114.42	110.05
29	DM	203	PEB	C3B-C4B-NB	3.00	114.42	110.05
29	KG	202	PEB	C1B-C2B-C3B	-3.00	103.06	106.51
29	KQ	202	PEB	C1B-C2B-C3B	-3.00	103.06	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IB	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	IM	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	lB	201	PEB	CHC-C1D-ND	-3.00	110.46	113.95
29	lM	201	PEB	CHC-C1D-ND	-3.00	110.46	113.95
30	A1	305	PUB	CHC-C1D-ND	-3.00	109.92	113.72
30	AK	305	PUB	CHC-C1D-ND	-3.00	109.92	113.72
31	yP	1001	CYC	C2C-C3C-C4C	3.00	105.84	101.34
29	gF	202	PEB	CHA-C1B-NB	-3.00	118.65	124.93
29	gI	202	PEB	CHA-C1B-NB	-3.00	118.65	124.93
29	G5	203	PEB	C3B-C4B-NB	3.00	114.42	110.05
29	H5	202	PEB	C3B-C4B-NB	3.00	114.42	110.05
31	E7	1001	CYC	C2A-C1A-NA	3.00	114.42	110.05
31	E9	1001	CYC	C2A-C1A-NA	3.00	114.42	110.05
29	I3	202	PEB	C2A-C1A-NA	3.00	110.86	108.27
29	IO	202	PEB	C2A-C1A-NA	3.00	110.86	108.27
29	fF	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	fI	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	CC	202	PEB	OD-C4D-C3D	-3.00	122.66	129.46
29	CE	202	PEB	OD-C4D-C3D	-3.00	122.66	129.46
29	OF	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	OI	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
31	PP	1001	CYC	OC-C1C-C2C	-3.00	123.79	126.17
29	ED	202	PEB	CMB-C2B-C1B	3.00	129.69	125.06
31	N7	1001	CYC	CAD-CBD-CGD	-3.00	105.34	113.76
31	N9	1001	CYC	CAD-CBD-CGD	-3.00	105.34	113.76
29	K3	201	PEB	CHB-C4B-NB	-3.00	124.66	128.83
29	KO	201	PEB	CHB-C4B-NB	-3.00	124.66	128.83
29	F3	201	PEB	C2A-C1A-NA	3.00	110.86	108.27
29	FO	201	PEB	C2A-C1A-NA	3.00	110.86	108.27
29	lF	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	II	202	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
31	jP	1001	CYC	C2B-C1B-NB	3.00	111.38	106.99
29	QF	202	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	QI	202	PEB	C3B-C4B-NB	3.00	114.41	110.05
31	GP	1001	CYC	OC-C1C-C2C	-3.00	123.79	126.17
29	GC	201	PEB	OD-C4D-ND	-3.00	121.49	125.93
29	GE	201	PEB	OD-C4D-ND	-3.00	121.49	125.93
29	ZB	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	ZM	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	C4	201	PEB	C1B-C2B-C3B	-3.00	103.06	106.51
29	CB	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	GB	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MB	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	CM	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	GM	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	MM	201	PEB	C4B-C3B-C2B	-3.00	103.46	106.78
29	MN	405	PEB	CHC-C4C-C3C	-3.00	125.22	130.34
31	tP	1001	CYC	CHA-C1A-NA	-3.00	124.67	128.83
31	I7	1001	CYC	C2A-C1A-NA	3.00	114.41	110.05
31	I9	1001	CYC	C2A-C1A-NA	3.00	114.41	110.05
29	CB	201	PEB	CHC-C1D-ND	-3.00	110.47	113.95
29	CM	201	PEB	CHC-C1D-ND	-3.00	110.47	113.95
29	GC	202	PEB	OD-C4D-C3D	-3.00	122.67	129.46
29	GE	202	PEB	OD-C4D-C3D	-3.00	122.67	129.46
29	H4	202	PEB	C4B-C3B-C2B	-3.00	103.47	106.78
31	oP	1001	CYC	C2B-C1B-NB	3.00	111.38	106.99
29	DA	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	HB	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	HM	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	DN	203	PEB	C3B-C4B-NB	3.00	114.41	110.05
29	IC	201	PEB	OD-C4D-ND	-3.00	121.49	125.93
29	IE	201	PEB	OD-C4D-ND	-3.00	121.49	125.93
29	G3	201	PEB	OA-C1A-C2A	-3.00	123.79	126.17
29	GO	201	PEB	OA-C1A-C2A	-3.00	123.79	126.17
29	AG	202	PEB	C1B-C2B-C3B	-3.00	103.07	106.51
29	AQ	202	PEB	C1B-C2B-C3B	-3.00	103.07	106.51
29	H5	203	PEB	C4B-C3B-C2B	-3.00	103.47	106.78
29	OB	201	PEB	C4B-C3B-C2B	-3.00	103.47	106.78
29	OM	201	PEB	C4B-C3B-C2B	-3.00	103.47	106.78
29	O1	201	PEB	CHA-C1B-C2B	3.00	132.61	124.90
29	OK	201	PEB	CHA-C1B-C2B	3.00	132.61	124.90
31	vP	1001	CYC	CHA-C1A-NA	-3.00	124.67	128.83
29	HD	202	PEB	C2A-C1A-NA	3.00	110.86	108.27
30	xJ	304	PUB	CMD-C2D-C3D	3.00	132.26	127.77
29	CD	201	PEB	C1B-C2B-C3B	-3.00	103.07	106.51
29	MA	405	PEB	OD-C4D-C3D	-3.00	122.67	129.46
29	W1	201	PEB	CHA-C1B-C2B	3.00	132.60	124.90
29	WK	201	PEB	CHA-C1B-C2B	3.00	132.60	124.90
29	OF	202	PEB	CMB-C2B-C1B	3.00	129.68	125.06
29	OI	202	PEB	CMB-C2B-C1B	3.00	129.68	125.06
29	AM	302	PEB	OD-C4D-C3D	-3.00	122.67	129.46
29	IB	201	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	IM	201	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
31	XP	1001	CYC	C2B-C1B-NB	2.99	111.37	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	pP	1001	CYC	OC-C1C-C2C	-2.99	123.79	126.17
29	AC	202	PEB	OD-C4D-C3D	-2.99	122.67	129.46
29	AE	202	PEB	OD-C4D-C3D	-2.99	122.67	129.46
31	eP	1001	CYC	CHA-C1A-NA	-2.99	124.67	128.83
29	WF	202	PEB	CMB-C2B-C1B	2.99	129.68	125.06
29	WI	202	PEB	CMB-C2B-C1B	2.99	129.68	125.06
29	HB	203	PEB	CHA-C4A-NA	-2.99	121.64	125.20
29	HM	203	PEB	CHA-C4A-NA	-2.99	121.64	125.20
29	SF	202	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	SI	202	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	EC	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
29	EE	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
31	qP	1001	CYC	C2B-C1B-NB	2.99	111.37	106.99
31	jP	1001	CYC	CAA-C2A-C1A	2.99	130.30	125.01
29	AC	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
29	AE	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
29	cF	201	PEB	CHB-C4B-NB	-2.99	124.67	128.83
29	cI	201	PEB	CHB-C4B-NB	-2.99	124.67	128.83
31	PP	1001	CYC	CHA-C1A-NA	-2.99	124.67	128.83
29	fI	201	PEB	CHA-C1B-C2B	2.99	132.60	124.90
29	fK	201	PEB	CHA-C1B-C2B	2.99	132.60	124.90
29	dB	201	PEB	CHC-C1D-ND	-2.99	110.47	113.95
29	dM	201	PEB	CHC-C1D-ND	-2.99	110.47	113.95
29	EC	202	PEB	OD-C4D-C3D	-2.99	122.68	129.46
29	EE	202	PEB	OD-C4D-C3D	-2.99	122.68	129.46
29	EB	201	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	EM	201	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
31	SP	1001	CYC	C2B-C1B-NB	2.99	111.37	106.99
31	JP	1001	CYC	OC-C1C-C2C	-2.99	123.79	126.17
29	BD	201	PEB	C1C-CHB-C4B	-2.99	125.23	128.81
29	F3	203	PEB	CHC-C4C-C3C	-2.99	125.23	130.34
29	FO	203	PEB	CHC-C4C-C3C	-2.99	125.23	130.34
29	TB	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	iB	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	TM	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	iM	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	f7	201	PEB	OD-C4D-C3D	-2.99	122.68	129.46
29	f9	201	PEB	OD-C4D-C3D	-2.99	122.68	129.46
31	F7	1001	CYC	CAD-CBD-CGD	-2.99	105.37	113.76
29	PR	202	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	jF	202	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	jI	202	PEB	C3B-C4B-NB	2.99	114.40	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A1	304	PUB	OA-C1A-NA	-2.99	121.50	125.93
30	AK	304	PUB	OA-C1A-NA	-2.99	121.50	125.93
29	E3	202	PEB	CMB-C2B-C1B	2.99	129.67	125.06
29	EO	202	PEB	CMB-C2B-C1B	2.99	129.67	125.06
29	aB	201	PEB	CHC-C1D-ND	-2.99	110.47	113.95
29	aM	201	PEB	CHC-C1D-ND	-2.99	110.47	113.95
29	ZB	203	PEB	CHA-C4A-NA	-2.99	121.65	125.20
29	ZM	203	PEB	CHA-C4A-NA	-2.99	121.65	125.20
29	E3	201	PEB	OA-C1A-C2A	-2.99	123.80	126.17
29	EO	201	PEB	OA-C1A-C2A	-2.99	123.80	126.17
31	RP	1001	CYC	OC-C1C-C2C	-2.99	123.80	126.17
31	TP	1001	CYC	OC-C1C-C2C	-2.99	123.80	126.17
29	UF	203	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	dF	203	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	UI	203	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	dI	203	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
29	K4	201	PEB	C1B-C2B-C3B	-2.99	103.08	106.51
29	K5	201	PEB	C1B-C2B-C3B	-2.99	103.08	106.51
29	K8	201	PEB	C1B-C2B-C3B	-2.99	103.08	106.51
29	KD	201	PEB	C1B-C2B-C3B	-2.99	103.08	106.51
29	ZF	202	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	ZI	202	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	E3	202	PEB	C2A-C1A-NA	2.99	110.85	108.27
29	EO	202	PEB	C2A-C1A-NA	2.99	110.85	108.27
29	gB	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	gM	203	PEB	C3B-C4B-NB	2.99	114.40	110.05
29	L8	203	PEB	C4B-C3B-C2B	-2.99	103.47	106.78
31	K9	1001	CYC	C2A-C1A-NA	2.99	114.40	110.05
29	k1	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	kK	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	M4	203	PEB	C1B-C2B-C3B	-2.99	103.08	106.51
31	nP	1001	CYC	CAA-C2A-C1A	2.99	130.29	125.01
29	L5	203	PEB	C4B-C3B-C2B	-2.99	103.48	106.78
29	c1	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
29	cK	201	PEB	OD-C4D-ND	-2.99	121.50	125.93
29	MN	405	PEB	OD-C4D-C3D	-2.99	122.69	129.46
29	a1	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	aK	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	EA	201	PEB	OA-C1A-C2A	-2.99	123.80	126.17
29	EN	201	PEB	OA-C1A-C2A	-2.99	123.80	126.17
31	cP	1001	CYC	OC-C1C-C2C	-2.99	123.80	126.17
29	JA	203	PEB	C3B-C4B-NB	2.99	114.39	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eB	202	PEB	C3B-C4B-NB	2.99	114.39	110.05
29	eM	202	PEB	C3B-C4B-NB	2.99	114.39	110.05
29	JN	203	PEB	C3B-C4B-NB	2.99	114.39	110.05
30	wJ	304	PUB	CMD-C2D-C3D	2.99	132.25	127.77
29	Z1	202	PEB	CHA-C1B-C2B	2.99	132.58	124.90
29	ZK	202	PEB	CHA-C1B-C2B	2.99	132.58	124.90
29	AB	302	PEB	OD-C4D-C3D	-2.99	122.69	129.46
29	H3	203	PEB	CHC-C4C-C3C	-2.99	125.24	130.34
29	HO	203	PEB	CHC-C4C-C3C	-2.99	125.24	130.34
31	TP	1001	CYC	CHA-C1A-NA	-2.99	124.68	128.83
29	P1	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	PK	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	FD	201	PEB	C1C-CHB-C4B	-2.99	125.24	128.81
31	HP	1001	CYC	C2B-C1B-NB	2.99	111.36	106.99
31	nP	1001	CYC	C2B-C1B-NB	2.99	111.36	106.99
31	wP	1001	CYC	C2B-C1B-NB	2.99	111.36	106.99
29	DD	202	PEB	C4B-C3B-C2B	-2.99	103.48	106.78
29	E3	201	PEB	CHB-C4B-NB	-2.99	124.69	128.83
29	EO	201	PEB	CHB-C4B-NB	-2.99	124.69	128.83
29	lF	202	PEB	CMB-C2B-C1B	2.99	129.66	125.06
29	II	202	PEB	CMB-C2B-C1B	2.99	129.66	125.06
29	EB	201	PEB	CHC-C1D-ND	-2.99	110.48	113.95
29	EM	201	PEB	CHC-C1D-ND	-2.99	110.48	113.95
29	Q7	201	PEB	OD-C4D-C3D	-2.99	122.69	129.46
29	Q9	201	PEB	OD-C4D-C3D	-2.99	122.69	129.46
29	AM	301	PEB	CMB-C2B-C1B	2.99	129.66	125.06
29	e1	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	eK	201	PEB	CHB-C4B-C3B	-2.99	118.42	125.32
29	J5	201	PEB	OD-C4D-ND	-2.98	121.51	125.93
29	J8	201	PEB	OD-C4D-ND	-2.98	121.51	125.93
29	H8	203	PEB	C4B-C3B-C2B	-2.98	103.48	106.78
29	N3	201	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	zJ	501	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	IC	202	PEB	OD-C4D-C3D	-2.98	122.70	129.46
29	IE	202	PEB	OD-C4D-C3D	-2.98	122.70	129.46
29	ID	201	PEB	C1B-C2B-C3B	-2.98	103.08	106.51
31	lP	1001	CYC	OC-C1C-C2C	-2.98	123.80	126.17
29	I3	201	PEB	CHB-C4B-NB	-2.98	124.69	128.83
29	IO	201	PEB	CHB-C4B-NB	-2.98	124.69	128.83
31	iP	1001	CYC	CHA-C1A-NA	-2.98	124.69	128.83
29	L5	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	l1	201	PEB	CHA-C1B-C2B	2.98	132.57	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	lK	201	PEB	CHA-C1B-C2B	2.98	132.57	124.90
31	hP	1001	CYC	CAA-C2A-C1A	2.98	130.29	125.01
31	UP	1001	CYC	C2B-C1B-NB	2.98	111.36	106.99
29	A3	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	fF	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	fI	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	AO	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	PB	202	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	PM	202	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	hF	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	hI	202	PEB	CMB-C2B-C1B	2.98	129.66	125.06
29	IG	202	PEB	C1B-C2B-C3B	-2.98	103.08	106.51
29	IQ	202	PEB	C1B-C2B-C3B	-2.98	103.08	106.51
29	G8	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	FA	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	cB	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	cM	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
29	FN	203	PEB	C3B-C4B-NB	2.98	114.39	110.05
31	FP	1001	CYC	C2B-C1B-NB	2.98	111.35	106.99
31	OP	1001	CYC	C2B-C1B-NB	2.98	111.35	106.99
29	I4	203	PEB	C1B-C2B-C3B	-2.98	103.08	106.51
29	AB	301	PEB	CMB-C2B-C1B	2.98	129.66	125.06
31	hP	1001	CYC	C2B-C1B-NB	2.98	111.35	106.99
29	J5	202	PEB	CHA-C1B-NB	-2.98	118.70	124.93
29	J8	202	PEB	CHA-C1B-NB	-2.98	118.70	124.93
31	1P	1001	CYC	CAA-C2A-C1A	2.98	130.28	125.01
31	MF	1001	CYC	OB-C4B-C3B	-2.98	124.81	128.04
31	MI	1001	CYC	OB-C4B-C3B	-2.98	124.81	128.04
29	T1	201	PEB	OD-C4D-ND	-2.98	121.52	125.93
29	TK	201	PEB	OD-C4D-ND	-2.98	121.52	125.93
29	E4	202	PEB	C1B-C2B-C3B	-2.98	103.09	106.51
29	IA	201	PEB	CHC-C4C-C3C	-2.98	125.25	130.34
29	IN	201	PEB	CHC-C4C-C3C	-2.98	125.25	130.34
29	V1	201	PEB	CHB-C4B-C3B	-2.98	118.44	125.32
29	Y1	201	PEB	CHB-C4B-C3B	-2.98	118.44	125.32
29	VK	201	PEB	CHB-C4B-C3B	-2.98	118.44	125.32
29	YK	201	PEB	CHB-C4B-C3B	-2.98	118.44	125.32
30	wL	304	PUB	CMD-C2D-C3D	2.98	132.24	127.77
29	K3	201	PEB	OA-C1A-C2A	-2.98	123.80	126.17
29	M4	201	PEB	OA-C1A-C2A	-2.98	123.80	126.17
29	KO	201	PEB	OA-C1A-C2A	-2.98	123.80	126.17
29	C5	201	PEB	C1B-C2B-C3B	-2.98	103.09	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	j1	203	PEB	C2A-C1A-NA	2.98	110.84	108.27
29	jK	203	PEB	C2A-C1A-NA	2.98	110.84	108.27
29	F8	203	PEB	C3B-C4B-NB	2.98	114.38	110.05
29	SB	201	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
29	SM	201	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
29	J1	1002	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	I3	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	JK	1002	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	IO	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
31	WP	1001	CYC	C2C-C3C-C4C	2.98	105.80	101.34
29	F5	203	PEB	C3B-C4B-NB	2.98	114.38	110.05
29	XB	202	PEB	C3B-C4B-NB	2.98	114.38	110.05
29	XM	202	PEB	C3B-C4B-NB	2.98	114.38	110.05
29	B5	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	OB	202	PEB	CHC-C1D-ND	-2.98	110.49	113.95
29	OM	202	PEB	CHC-C1D-ND	-2.98	110.49	113.95
31	rP	1001	CYC	CHA-C1A-NA	-2.98	124.70	128.83
29	G5	203	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
29	CD	202	PEB	C1B-C2B-C3B	-2.98	103.09	106.51
29	AM	302	PEB	C1B-C2B-C3B	-2.98	103.09	106.51
29	C3	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	dF	203	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	dI	203	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	CO	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	gB	201	PEB	CAB-CBB-CGB	-2.98	107.20	113.60
29	gM	201	PEB	CAB-CBB-CGB	-2.98	107.20	113.60
29	C3	201	PEB	CHB-C4B-NB	-2.98	124.70	128.83
29	CO	201	PEB	CHB-C4B-NB	-2.98	124.70	128.83
29	KC	203	PEB	OD-C4D-C3D	-2.98	122.72	129.46
29	KE	203	PEB	OD-C4D-C3D	-2.98	122.72	129.46
29	VR	203	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
31	EP	1001	CYC	CHA-C1A-NA	-2.98	124.70	128.83
29	K3	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	KO	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
30	AM	305	PUB	CBA-CAA-C3A	-2.98	108.47	112.98
29	uJ	201	PEB	C1C-CHB-C4B	2.98	132.36	128.81
29	uL	201	PEB	C1C-CHB-C4B	2.98	132.36	128.81
29	R2	203	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
29	RR	203	PEB	C4B-C3B-C2B	-2.98	103.49	106.78
30	AB	304	PUB	CAC-CBC-CGC	-2.98	107.20	113.60
31	EF	1001	CYC	OB-C4B-C3B	-2.98	124.81	128.04
31	KF	1001	CYC	OB-C4B-C3B	-2.98	124.81	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	EI	1001	CYC	OB-C4B-C3B	-2.98	124.81	128.04
31	RP	1001	CYC	CHA-C1A-NA	-2.98	124.70	128.83
29	zL	501	PEB	CHC-C1D-ND	-2.98	110.49	113.95
29	K5	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	K8	202	PEB	CMB-C2B-C1B	2.98	129.65	125.06
29	T1	201	PEB	CHB-C4B-C3B	-2.98	118.45	125.32
29	TK	201	PEB	CHB-C4B-C3B	-2.98	118.45	125.32
29	i1	201	PEB	CHB-C4B-C3B	-2.97	118.45	125.32
29	iK	201	PEB	CHB-C4B-C3B	-2.97	118.45	125.32
29	G3	201	PEB	CHB-C4B-NB	-2.97	124.70	128.83
29	GO	201	PEB	CHB-C4B-NB	-2.97	124.70	128.83
29	A7	304	PEB	C2A-C1A-NA	2.97	110.84	108.27
29	XB	202	PEB	CHA-C4A-NA	-2.97	121.67	125.20
29	XM	202	PEB	CHA-C4A-NA	-2.97	121.67	125.20
29	b7	201	PEB	OD-C4D-C3D	-2.97	122.72	129.46
29	b9	201	PEB	OD-C4D-C3D	-2.97	122.72	129.46
29	B8	203	PEB	C4B-C3B-C2B	-2.97	103.49	106.78
29	FB	203	PEB	C3B-C4B-NB	2.97	114.37	110.05
29	FM	203	PEB	C3B-C4B-NB	2.97	114.37	110.05
29	k1	202	PEB	C2A-C1A-NA	2.97	110.84	108.27
29	kK	202	PEB	C2A-C1A-NA	2.97	110.84	108.27
29	MJ	201	PEB	CAB-C3B-C4B	2.97	130.27	125.01
29	ML	201	PEB	CAB-C3B-C4B	2.97	130.27	125.01
31	K7	1001	CYC	C4D-CHA-C1A	2.97	132.36	128.81
29	TB	201	PEB	CHA-C1B-NB	-2.97	118.72	124.93
29	TM	201	PEB	CHA-C1B-NB	-2.97	118.72	124.93
29	I3	203	PEB	CAC-CBC-CGC	-2.97	105.43	113.76
29	IO	203	PEB	CAC-CBC-CGC	-2.97	105.43	113.76
30	yJ	302	PUB	CAB-CBB-CGB	-2.97	105.43	113.76
30	yL	302	PUB	CAB-CBB-CGB	-2.97	105.43	113.76
29	F9	1002	PEB	C1B-C2B-C3B	-2.97	103.09	106.51
30	MN	402	PUB	CMD-C2D-C3D	2.97	132.23	127.77
29	CC	201	PEB	OD-C4D-ND	-2.97	121.53	125.93
29	CE	201	PEB	OD-C4D-ND	-2.97	121.53	125.93
29	bF	202	PEB	CMB-C2B-C1B	2.97	129.64	125.06
29	bI	202	PEB	CMB-C2B-C1B	2.97	129.64	125.06
29	NK	1002	PEB	CMB-C2B-C1B	2.97	129.64	125.06
31	AP	1001	CYC	CHA-C1A-NA	-2.97	124.70	128.83
31	iP	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
29	jF	202	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	jI	202	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	M3	201	PEB	C3B-C4B-NB	2.97	114.37	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MO	201	PEB	C3B-C4B-NB	2.97	114.37	110.05
31	pP	1001	CYC	CHA-C1A-NA	-2.97	124.71	128.83
29	d7	201	PEB	OD-C4D-C3D	-2.97	122.73	129.46
29	d9	201	PEB	OD-C4D-C3D	-2.97	122.73	129.46
29	E4	201	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
29	ZF	202	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	ZI	202	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	AA	201	PEB	CHC-C4C-C3C	-2.97	125.27	130.34
29	AN	201	PEB	CHC-C4C-C3C	-2.97	125.27	130.34
29	G4	201	PEB	OA-C1A-C2A	-2.97	123.81	126.17
29	GD	201	PEB	OA-C1A-C2A	-2.97	123.81	126.17
29	kB	203	PEB	C3B-C4B-NB	2.97	114.37	110.05
29	kM	203	PEB	C3B-C4B-NB	2.97	114.37	110.05
29	L7	1002	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
30	AM	304	PUB	CAC-CBC-CGC	-2.97	107.21	113.60
31	IP	1001	CYC	C2B-C1B-NB	2.97	111.33	106.99
29	TR	203	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	KB	202	PEB	CHC-C1D-ND	-2.97	110.50	113.95
29	KM	202	PEB	CHC-C1D-ND	-2.97	110.50	113.95
29	KA	201	PEB	CHC-C4C-C3C	-2.97	125.27	130.34
29	KN	201	PEB	CHC-C4C-C3C	-2.97	125.27	130.34
29	SJ	201	PEB	CAB-C3B-C4B	2.97	130.26	125.01
29	SL	201	PEB	CAB-C3B-C4B	2.97	130.26	125.01
29	RB	201	PEB	CHA-C1B-NB	-2.97	118.72	124.93
29	RM	201	PEB	CHA-C1B-NB	-2.97	118.72	124.93
29	GG	202	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
29	GQ	202	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
29	LB	201	PEB	CAB-CBB-CGB	-2.97	107.22	113.60
29	LM	201	PEB	CAB-CBB-CGB	-2.97	107.22	113.60
31	VP	1001	CYC	C1B-C2B-C3B	-2.97	104.77	107.87
29	g1	201	PEB	CHB-C4B-C3B	-2.97	118.47	125.32
29	gK	201	PEB	CHB-C4B-C3B	-2.97	118.47	125.32
29	j7	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	l7	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	j9	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	l9	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	RB	203	PEB	C3B-C4B-NB	2.97	114.36	110.05
29	RM	203	PEB	C3B-C4B-NB	2.97	114.36	110.05
29	mJ	202	PEB	OD-C4D-ND	-2.97	121.53	125.93
29	mL	202	PEB	OD-C4D-ND	-2.97	121.53	125.93
29	E4	202	PEB	CHA-C4A-NA	-2.97	121.68	125.20
29	JB	203	PEB	C3B-C4B-NB	2.97	114.36	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JM	203	PEB	C3B-C4B-NB	2.97	114.36	110.05
29	GD	201	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
29	c1	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	e1	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	i1	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	AF	304	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	AI	304	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	cK	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	eK	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	iK	202	PEB	C2A-C1A-NA	2.97	110.83	108.27
29	A1	303	PEB	OD-C4D-ND	-2.97	121.54	125.93
29	AK	303	PEB	OD-C4D-ND	-2.97	121.54	125.93
31	KI	1001	CYC	OB-C4B-C3B	-2.97	124.82	128.04
29	PB	201	PEB	CAB-CBB-CGB	-2.97	107.22	113.60
29	PM	201	PEB	CAB-CBB-CGB	-2.97	107.22	113.60
29	N1	1002	PEB	CMB-C2B-C1B	2.97	129.63	125.06
31	L7	1001	CYC	OC-C1C-C2C	-2.97	123.81	126.17
29	G4	201	PEB	C1B-C2B-C3B	-2.97	103.10	106.51
29	Z7	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	Z9	201	PEB	OD-C4D-C3D	-2.97	122.74	129.46
29	V2	203	PEB	C4B-C3B-C2B	-2.97	103.50	106.78
29	W7	201	PEB	OD-C4D-C3D	-2.96	122.74	129.46
29	W9	201	PEB	OD-C4D-C3D	-2.96	122.74	129.46
29	mB	203	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	mM	203	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	RB	203	PEB	CHA-C4A-NA	-2.96	121.68	125.20
29	RM	203	PEB	CHA-C4A-NA	-2.96	121.68	125.20
29	mB	201	PEB	CAB-CBB-CGB	-2.96	107.22	113.60
29	mM	201	PEB	CAB-CBB-CGB	-2.96	107.22	113.60
29	O7	201	PEB	OD-C4D-C3D	-2.96	122.74	129.46
29	O9	201	PEB	OD-C4D-C3D	-2.96	122.74	129.46
29	NJ	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	vJ	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	NL	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	vL	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	B4	201	PEB	C1C-CHB-C4B	-2.96	125.27	128.81
31	KP	1001	CYC	CHA-C1A-NA	-2.96	124.72	128.83
29	NB	201	PEB	CHA-C1B-NB	-2.96	118.73	124.93
29	NM	201	PEB	CHA-C1B-NB	-2.96	118.73	124.93
29	xL	303	PEB	C2A-C1A-NA	2.96	110.83	108.27
29	LB	201	PEB	CHA-C1B-NB	-2.96	118.73	124.93
29	LM	201	PEB	CHA-C1B-NB	-2.96	118.73	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	AB	305	PUB	CBA-CAA-C3A	-2.96	108.48	112.98
29	BJ	202	PEB	C1C-CHB-C4B	2.96	132.35	128.81
29	BL	202	PEB	C1C-CHB-C4B	2.96	132.35	128.81
29	i1	201	PEB	OD-C4D-ND	-2.96	121.54	125.93
29	iK	201	PEB	OD-C4D-ND	-2.96	121.54	125.93
29	NB	201	PEB	CAB-CBB-CGB	-2.96	107.23	113.60
29	NM	201	PEB	CAB-CBB-CGB	-2.96	107.23	113.60
29	FJ	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
29	FL	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
29	h7	201	PEB	OD-C4D-C3D	-2.96	122.75	129.46
29	h9	201	PEB	OD-C4D-C3D	-2.96	122.75	129.46
29	UJ	201	PEB	CAB-C3B-C4B	2.96	130.25	125.01
29	UL	201	PEB	CAB-C3B-C4B	2.96	130.25	125.01
29	P7	201	PEB	CHC-C4C-C3C	-2.96	125.28	130.34
29	P9	201	PEB	CHC-C4C-C3C	-2.96	125.28	130.34
29	m1	201	PEB	CHB-C4B-C3B	-2.96	118.47	125.32
29	mK	201	PEB	CHB-C4B-C3B	-2.96	118.47	125.32
29	tJ	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	tL	201	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	L9	1002	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
31	BP	1001	CYC	C2B-C1B-NB	2.96	111.33	106.99
29	R7	201	PEB	CHC-C4C-C3C	-2.96	125.28	130.34
29	R9	201	PEB	CHC-C4C-C3C	-2.96	125.28	130.34
29	F5	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
29	F8	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
31	uP	1001	CYC	C2B-C1B-NB	2.96	111.32	106.99
29	PB	201	PEB	CHA-C1B-NB	-2.96	118.74	124.93
29	PM	201	PEB	CHA-C1B-NB	-2.96	118.74	124.93
29	DD	201	PEB	C1C-CHB-C4B	-2.96	125.27	128.81
29	XJ	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
29	XL	203	PEB	C4B-C3B-C2B	-2.96	103.50	106.78
29	U7	201	PEB	OD-C4D-C3D	-2.96	122.75	129.46
29	U9	201	PEB	OD-C4D-C3D	-2.96	122.75	129.46
29	F1	1002	PEB	CMB-C2B-C1B	2.96	129.62	125.06
29	FK	1002	PEB	CMB-C2B-C1B	2.96	129.62	125.06
29	VB	203	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	VM	203	PEB	C3B-C4B-NB	2.96	114.36	110.05
29	MB	202	PEB	CHC-C1D-ND	-2.96	110.51	113.95
29	MM	202	PEB	CHC-C1D-ND	-2.96	110.51	113.95
29	B3	202	PEB	CAC-CBC-CGC	-2.96	105.46	113.76
29	BO	202	PEB	CAC-CBC-CGC	-2.96	105.46	113.76
29	k1	201	PEB	OD-C4D-ND	-2.96	121.54	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kK	201	PEB	OD-C4D-ND	-2.96	121.54	125.93
29	eB	201	PEB	CHA-C1B-NB	-2.96	118.74	124.93
29	eM	201	PEB	CHA-C1B-NB	-2.96	118.74	124.93
29	N3	202	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	D7	1002	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	D9	1002	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	EG	202	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	EQ	202	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	dJ	202	PEB	C1C-CHB-C4B	2.96	132.34	128.81
29	dL	202	PEB	C1C-CHB-C4B	2.96	132.34	128.81
29	R1	201	PEB	CHB-C4B-C3B	-2.96	118.48	125.32
29	RK	201	PEB	CHB-C4B-C3B	-2.96	118.48	125.32
29	ED	201	PEB	CHA-C4A-NA	-2.96	121.69	125.20
29	L8	203	PEB	C3B-C4B-NB	2.96	114.35	110.05
29	QJ	202	PEB	OD-C4D-ND	-2.96	121.55	125.93
29	QL	202	PEB	OD-C4D-ND	-2.96	121.55	125.93
29	J7	1002	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	dD	401	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
29	M4	201	PEB	C1B-C2B-C3B	-2.96	103.11	106.51
31	JP	1001	CYC	CHA-C1A-NA	-2.96	124.72	128.83
29	wL	303	PEB	C2A-C1A-NA	2.96	110.82	108.27
29	HB	201	PEB	CAB-CBB-CGB	-2.96	107.24	113.60
29	HM	201	PEB	CAB-CBB-CGB	-2.96	107.24	113.60
31	GP	1001	CYC	CHA-C1A-NA	-2.96	124.72	128.83
29	J3	202	PEB	CAC-CBC-CGC	-2.96	105.47	113.76
29	JO	202	PEB	CAC-CBC-CGC	-2.96	105.47	113.76
29	HD	201	PEB	C1C-CHB-C4B	-2.96	125.28	128.81
29	SJ	202	PEB	OD-C4D-ND	-2.96	121.55	125.93
29	SL	202	PEB	OD-C4D-ND	-2.96	121.55	125.93
29	B3	202	PEB	CMB-C2B-C1B	2.96	129.62	125.06
29	BO	202	PEB	CMB-C2B-C1B	2.96	129.62	125.06
29	IJ	201	PEB	CAB-C3B-C4B	2.96	130.24	125.01
29	IL	201	PEB	CAB-C3B-C4B	2.96	130.24	125.01
29	c1	201	PEB	CHB-C4B-C3B	-2.96	118.49	125.32
29	cK	201	PEB	CHB-C4B-C3B	-2.96	118.49	125.32
29	DJ	202	PEB	C4B-C3B-C2B	-2.96	103.51	106.78
29	DL	202	PEB	C4B-C3B-C2B	-2.96	103.51	106.78
29	kB	201	PEB	CHA-C1B-NB	-2.96	118.75	124.93
29	kM	201	PEB	CHA-C1B-NB	-2.96	118.75	124.93
30	yJ	302	PUB	CHA-C4A-NA	-2.96	110.52	113.95
30	yL	302	PUB	CHA-C4A-NA	-2.96	110.52	113.95
31	EP	1001	CYC	OC-C1C-C2C	-2.96	123.82	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	sP	1001	CYC	C2B-C1B-NB	2.96	111.31	106.99
29	D4	202	PEB	C4B-C3B-C2B	-2.96	103.51	106.78
29	HD	202	PEB	C4B-C3B-C2B	-2.96	103.51	106.78
31	G9	1001	CYC	C4D-CHA-C1A	2.96	132.34	128.81
29	wJ	302	PEB	C1B-C2B-C3B	-2.95	103.11	106.51
29	iB	201	PEB	CAB-CBB-CGB	-2.95	107.24	113.60
29	iM	201	PEB	CAB-CBB-CGB	-2.95	107.24	113.60
29	BC	201	PEB	C3B-C4B-NB	2.95	114.35	110.05
29	BE	201	PEB	C3B-C4B-NB	2.95	114.35	110.05
29	V1	201	PEB	OD-C4D-ND	-2.95	121.55	125.93
29	VK	201	PEB	OD-C4D-ND	-2.95	121.55	125.93
29	U1	201	PEB	C2A-C1A-NA	2.95	110.82	108.27
29	UK	201	PEB	C2A-C1A-NA	2.95	110.82	108.27
29	c7	201	PEB	CHC-C4C-C3C	-2.95	125.30	130.34
29	c9	201	PEB	CHC-C4C-C3C	-2.95	125.30	130.34
29	T2	203	PEB	C4B-C3B-C2B	-2.95	103.51	106.78
31	K1	1001	CYC	C1A-C2A-C3A	-2.95	103.51	106.78
31	KK	1001	CYC	C1A-C2A-C3A	-2.95	103.51	106.78
31	K9	1001	CYC	C4D-CHA-C1A	2.95	132.34	128.81
29	SB	202	PEB	CHC-C1D-ND	-2.95	110.52	113.95
29	SM	202	PEB	CHC-C1D-ND	-2.95	110.52	113.95
29	RB	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	VB	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	RM	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	VM	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	G8	203	PEB	C4B-C3B-C2B	-2.95	103.51	106.78
29	R1	202	PEB	C2A-C1A-NA	2.95	110.82	108.27
29	RK	202	PEB	C2A-C1A-NA	2.95	110.82	108.27
29	ZJ	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	ZL	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	L5	202	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	J9	1002	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	MD	202	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	uJ	202	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	uL	202	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	fB	202	PEB	CHC-C1D-ND	-2.95	110.52	113.95
29	fM	202	PEB	CHC-C1D-ND	-2.95	110.52	113.95
29	JB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	JM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	cB	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	cM	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	D4	201	PEB	C1C-CHB-C4B	-2.95	125.28	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	oJ	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	sJ	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	oL	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	sL	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	N7	1002	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	N9	1002	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	S7	201	PEB	OD-C4D-C3D	-2.95	122.77	129.46
29	S9	201	PEB	OD-C4D-C3D	-2.95	122.77	129.46
29	kB	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	kM	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	J3	202	PEB	CMB-C2B-C1B	2.95	129.61	125.06
29	JO	202	PEB	CMB-C2B-C1B	2.95	129.61	125.06
29	gB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	iB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	gM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	iM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	AJ	203	PEB	C1C-CHB-C4B	2.95	132.34	128.81
29	AL	203	PEB	C1C-CHB-C4B	2.95	132.34	128.81
30	MA	402	PUB	CBB-CAB-C3B	-2.95	107.58	112.62
29	OJ	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	OL	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	B5	203	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	FC	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	FE	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
31	NP	1001	CYC	CHA-C1A-NA	-2.95	124.73	128.83
31	cP	1001	CYC	CHA-C1A-NA	-2.95	124.73	128.83
29	HB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	VB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	HM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	VM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	PJ	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	PL	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	cB	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	cM	201	PEB	CHA-C1B-NB	-2.95	118.76	124.93
31	L9	1001	CYC	OC-C1C-C2C	-2.95	123.83	126.17
31	xP	1001	CYC	C1B-C2B-C3B	-2.95	104.79	107.87
29	EA	201	PEB	CHC-C4C-C3C	-2.95	125.31	130.34
29	EN	201	PEB	CHC-C4C-C3C	-2.95	125.31	130.34
29	QJ	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	QL	201	PEB	CAB-C3B-C4B	2.95	130.23	125.01
29	cB	202	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	cM	202	PEB	OD-C4D-ND	-2.95	121.56	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	XB	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	XM	201	PEB	CAB-CBB-CGB	-2.95	107.25	113.60
29	JJ	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	JL	201	PEB	C3B-C4B-NB	2.95	114.34	110.05
29	L8	202	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	xJ	302	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	wL	302	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	QR	202	PEB	CHA-C1B-NB	-2.95	118.76	124.93
29	GA	201	PEB	CHC-C4C-C3C	-2.95	125.31	130.34
29	GN	201	PEB	CHC-C4C-C3C	-2.95	125.31	130.34
29	AC	201	PEB	C4B-C3B-C2B	-2.95	103.52	106.78
29	IC	201	PEB	C4B-C3B-C2B	-2.95	103.52	106.78
29	AE	201	PEB	C4B-C3B-C2B	-2.95	103.52	106.78
29	IE	201	PEB	C4B-C3B-C2B	-2.95	103.52	106.78
29	P1	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	g1	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	PK	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	gK	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	FB	201	PEB	CHA-C1B-NB	-2.95	118.77	124.93
29	FM	201	PEB	CHA-C1B-NB	-2.95	118.77	124.93
29	nJ	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	nL	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	ED	201	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	V1	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	VK	202	PEB	C2A-C1A-NA	2.95	110.81	108.27
29	pJ	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	pL	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	gB	202	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	gM	202	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	AB	302	PEB	C1B-C2B-C3B	-2.95	103.12	106.51
29	DB	201	PEB	CAB-CBB-CGB	-2.95	107.26	113.60
29	FB	201	PEB	CAB-CBB-CGB	-2.95	107.26	113.60
29	DM	201	PEB	CAB-CBB-CGB	-2.95	107.26	113.60
29	FM	201	PEB	CAB-CBB-CGB	-2.95	107.26	113.60
29	CJ	201	PEB	CAB-C3B-C4B	2.95	130.22	125.01
29	cJ	201	PEB	CAB-C3B-C4B	2.95	130.22	125.01
29	CL	201	PEB	CAB-C3B-C4B	2.95	130.22	125.01
29	cL	201	PEB	CAB-C3B-C4B	2.95	130.22	125.01
31	mP	1001	CYC	OC-C1C-C2C	-2.95	123.83	126.17
31	rP	1001	CYC	OC-C1C-C2C	-2.95	123.83	126.17
29	fJ	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81
29	fL	202	PEB	C1C-CHB-C4B	2.95	132.33	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	H4	201	PEB	C1C-CHB-C4B	-2.95	125.29	128.81
29	m1	201	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	aJ	202	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	mK	201	PEB	OD-C4D-ND	-2.95	121.56	125.93
29	aL	202	PEB	OD-C4D-ND	-2.95	121.56	125.93
30	MG	402	PUB	OA-C1A-NA	-2.95	121.56	125.93
31	N7	1001	CYC	CAA-CBA-CGA	2.95	119.94	113.60
31	N9	1001	CYC	CAA-CBA-CGA	2.95	119.94	113.60
29	H3	202	PEB	CAC-CBC-CGC	-2.95	105.50	113.76
29	HO	202	PEB	CAC-CBC-CGC	-2.95	105.50	113.76
30	A7	303	PUB	OD-C4D-ND	-2.95	121.57	125.93
30	A9	303	PUB	OD-C4D-ND	-2.95	121.57	125.93
29	mB	201	PEB	CHA-C1B-NB	-2.95	118.77	124.93
29	mM	201	PEB	CHA-C1B-NB	-2.95	118.77	124.93
29	TJ	201	PEB	C3B-C4B-NB	2.95	114.33	110.05
29	TL	201	PEB	C3B-C4B-NB	2.95	114.33	110.05
29	F8	202	PEB	C1B-C2B-C3B	-2.95	103.13	106.51
29	iB	203	PEB	CHA-C4A-NA	-2.95	121.70	125.20
29	iM	203	PEB	CHA-C4A-NA	-2.95	121.70	125.20
29	cJ	202	PEB	OD-C4D-ND	-2.95	121.57	125.93
29	iJ	202	PEB	OD-C4D-ND	-2.95	121.57	125.93
29	cL	202	PEB	OD-C4D-ND	-2.95	121.57	125.93
29	iL	202	PEB	OD-C4D-ND	-2.95	121.57	125.93
29	D1	1002	PEB	CMB-C2B-C1B	2.94	129.60	125.06
29	XB	201	PEB	CHA-C1B-NB	-2.94	118.77	124.93
29	XM	201	PEB	CHA-C1B-NB	-2.94	118.77	124.93
29	B4	201	PEB	OD-C4D-C3D	-2.94	122.79	129.46
29	qJ	201	PEB	CAB-C3B-C4B	2.94	130.22	125.01
29	qL	201	PEB	CAB-C3B-C4B	2.94	130.22	125.01
29	JC	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	JE	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	sJ	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	sL	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
30	A7	302	PUB	OD-C4D-ND	-2.94	121.57	125.93
30	A9	302	PUB	OD-C4D-ND	-2.94	121.57	125.93
29	BJ	203	PEB	C4B-C3B-C2B	-2.94	103.52	106.78
29	vJ	202	PEB	C4B-C3B-C2B	-2.94	103.52	106.78
29	BL	203	PEB	C4B-C3B-C2B	-2.94	103.52	106.78
29	vL	202	PEB	C4B-C3B-C2B	-2.94	103.52	106.78
29	eB	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	eM	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	ID	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	lB	202	PEB	CHC-C1D-ND	-2.94	110.53	113.95
29	lM	202	PEB	CHC-C1D-ND	-2.94	110.53	113.95
30	MN	402	PUB	CBB-CAB-C3B	-2.94	107.60	112.62
29	FB	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	UJ	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	UL	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	FM	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	ZB	201	PEB	CHA-C1B-NB	-2.94	118.78	124.93
29	ZM	201	PEB	CHA-C1B-NB	-2.94	118.78	124.93
29	TB	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	TM	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	MD	201	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	hJ	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	hL	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
31	I7	1001	CYC	C4D-CHA-C1A	2.94	132.32	128.81
31	I9	1001	CYC	C4D-CHA-C1A	2.94	132.32	128.81
29	LB	203	PEB	CHA-C4A-NA	-2.94	121.71	125.20
29	LM	203	PEB	CHA-C4A-NA	-2.94	121.71	125.20
29	g7	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	g9	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	M3	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	C4	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	I4	201	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	MO	202	PEB	C1B-C2B-C3B	-2.94	103.13	106.51
29	A3	201	PEB	CHB-C4B-NB	-2.94	124.75	128.83
29	AO	201	PEB	CHB-C4B-NB	-2.94	124.75	128.83
29	ZJ	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	sJ	203	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	ZL	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	sL	203	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	HC	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	HE	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	ZB	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	ZM	201	PEB	CAB-CBB-CGB	-2.94	107.27	113.60
29	a7	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	a9	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	CA	202	PEB	CMD-C2D-C3D	2.94	134.21	130.06
29	CN	202	PEB	CMD-C2D-C3D	2.94	134.21	130.06
29	KJ	201	PEB	CAB-C3B-C4B	2.94	130.21	125.01
29	KL	201	PEB	CAB-C3B-C4B	2.94	130.21	125.01
29	qJ	202	PEB	OD-C4D-ND	-2.94	121.57	125.93
29	qL	202	PEB	OD-C4D-ND	-2.94	121.57	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k7	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	k9	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	jJ	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
29	jL	202	PEB	C1C-CHB-C4B	2.94	132.32	128.81
31	G7	1001	CYC	C4D-CHA-C1A	2.94	132.32	128.81
29	I8	203	PEB	C4B-C3B-C2B	-2.94	103.53	106.78
29	B4	202	PEB	C2A-C1A-NA	2.94	110.81	108.27
29	BD	202	PEB	C2A-C1A-NA	2.94	110.81	108.27
29	aJ	201	PEB	CAB-C3B-C4B	2.94	130.21	125.01
29	aL	201	PEB	CAB-C3B-C4B	2.94	130.21	125.01
29	H7	1002	PEB	CAB-CBB-CGB	-2.94	107.28	113.60
29	H9	1002	PEB	CAB-CBB-CGB	-2.94	107.28	113.60
31	gP	1001	CYC	OC-C1C-C2C	-2.94	123.83	126.17
30	MG	402	PUB	OD-C4D-ND	-2.94	121.57	125.93
29	dJ	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	fJ	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	dL	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	fL	201	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	zL	501	PEB	C3B-C4B-NB	2.94	114.33	110.05
29	JB	201	PEB	CAB-CBB-CGB	-2.94	107.28	113.60
29	JM	201	PEB	CAB-CBB-CGB	-2.94	107.28	113.60
29	YB	203	PEB	CHC-C1D-ND	-2.94	110.53	113.95
29	YM	203	PEB	CHC-C1D-ND	-2.94	110.53	113.95
29	J5	202	PEB	CBC-CAC-C2C	2.94	117.64	112.62
29	J8	202	PEB	CBC-CAC-C2C	2.94	117.64	112.62
31	IF	1001	CYC	OB-C4B-C3B	-2.94	124.85	128.04
31	II	1001	CYC	OB-C4B-C3B	-2.94	124.85	128.04
29	Z7	202	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	Z9	202	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	H3	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
29	HO	201	PEB	CHC-C4C-C3C	-2.94	125.32	130.34
31	D1	1001	CYC	C2A-C1A-NA	2.94	114.33	110.05
29	TB	203	PEB	CHA-C4A-NA	-2.94	121.71	125.20
29	TM	203	PEB	CHA-C4A-NA	-2.94	121.71	125.20
29	H4	202	PEB	C2A-C1A-NA	2.94	110.81	108.27
29	F3	202	PEB	CAC-CBC-CGC	-2.94	105.52	113.76
29	FO	202	PEB	CAC-CBC-CGC	-2.94	105.52	113.76
29	BJ	201	PEB	C3B-C4B-NB	2.94	114.32	110.05
29	BL	201	PEB	C3B-C4B-NB	2.94	114.32	110.05
31	DK	1001	CYC	C2A-C1A-NA	2.94	114.32	110.05
29	J9	1002	PEB	CAB-CBB-CGB	-2.94	107.28	113.60
29	P1	201	PEB	OD-C4D-ND	-2.94	121.58	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	e1	201	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	uJ	203	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	PK	201	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	eK	201	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	uL	203	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	DQ	203	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	FQ	203	PEB	OD-C4D-ND	-2.94	121.58	125.93
30	MQ	404	PUB	OD-C4D-ND	-2.94	121.58	125.93
29	F3	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
29	FO	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
31	L9	1001	CYC	CAA-CBA-CGA	2.94	119.92	113.60
29	H3	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
29	VF	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
29	VI	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
29	HO	202	PEB	CMB-C2B-C1B	2.94	129.59	125.06
29	NO	203	PEB	CHB-C4B-NB	-2.94	124.75	128.83
29	DJ	201	PEB	C3B-C4B-NB	2.94	114.32	110.05
29	DL	201	PEB	C3B-C4B-NB	2.94	114.32	110.05
29	A5	203	PEB	C4B-C3B-C2B	-2.94	103.53	106.78
29	A8	203	PEB	C4B-C3B-C2B	-2.94	103.53	106.78
29	dB	202	PEB	CHC-C1D-ND	-2.94	110.54	113.95
29	dM	202	PEB	CHC-C1D-ND	-2.94	110.54	113.95
29	QB	204	PEB	CHC-C1D-ND	-2.94	110.54	113.95
29	QM	204	PEB	CHC-C1D-ND	-2.94	110.54	113.95
29	YB	201	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	YM	201	PEB	OD-C4D-ND	-2.94	121.58	125.93
29	J7	1002	PEB	CAB-CBB-CGB	-2.94	107.29	113.60
29	BD	201	PEB	OD-C4D-C3D	-2.94	122.81	129.46
29	IG	202	PEB	C3B-C4B-NB	2.94	114.32	110.05
29	IQ	202	PEB	C3B-C4B-NB	2.94	114.32	110.05
31	DF	1001	CYC	CHB-C4A-C3A	2.94	132.45	124.90
31	DI	1001	CYC	CHB-C4A-C3A	2.94	132.45	124.90
29	dF	201	PEB	CMB-C2B-C1B	2.94	129.58	125.06
29	dI	201	PEB	CMB-C2B-C1B	2.94	129.58	125.06
29	H5	202	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	NO	202	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	LD	201	PEB	C1C-CHB-C4B	-2.93	125.30	128.81
29	kJ	201	PEB	CAB-C3B-C4B	2.93	130.20	125.01
29	kL	201	PEB	CAB-C3B-C4B	2.93	130.20	125.01
29	PJ	201	PEB	C3B-C4B-NB	2.93	114.32	110.05
29	PL	201	PEB	C3B-C4B-NB	2.93	114.32	110.05
29	LD	201	PEB	OD-C4D-C3D	-2.93	122.81	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	jJ	203	PEB	C4B-C3B-C2B	-2.93	103.53	106.78
29	jL	203	PEB	C4B-C3B-C2B	-2.93	103.53	106.78
29	CJ	202	PEB	OD-C4D-ND	-2.93	121.58	125.93
29	CL	202	PEB	OD-C4D-ND	-2.93	121.58	125.93
29	U1	202	PEB	CMA-C2A-C1A	-2.93	106.08	112.40
29	UK	202	PEB	CMA-C2A-C1A	-2.93	106.08	112.40
31	NP	1001	CYC	OC-C1C-C2C	-2.93	123.84	126.17
29	xJ	303	PEB	C2A-C1A-NA	2.93	110.80	108.27
29	VB	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	VM	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	LA	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	LN	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	RJ	201	PEB	C3B-C4B-NB	2.93	114.32	110.05
29	RL	201	PEB	C3B-C4B-NB	2.93	114.32	110.05
29	zL	501	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	WB	202	PEB	CHC-C1D-ND	-2.93	110.54	113.95
29	WM	202	PEB	CHC-C1D-ND	-2.93	110.54	113.95
29	a1	201	PEB	OD-C4D-ND	-2.93	121.58	125.93
29	aK	201	PEB	OD-C4D-ND	-2.93	121.58	125.93
29	lJ	201	PEB	C3B-C4B-NB	2.93	114.31	110.05
29	lL	201	PEB	C3B-C4B-NB	2.93	114.31	110.05
29	GC	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	GE	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	h7	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	h9	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	TB	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	TM	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	xL	302	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	K8	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	VJ	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	ZJ	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	VL	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	ZL	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	lJ	202	PEB	C1C-CHB-C4B	2.93	132.31	128.81
29	lL	202	PEB	C1C-CHB-C4B	2.93	132.31	128.81
31	CF	1001	CYC	OB-C4B-C3B	-2.93	124.86	128.04
31	CI	1001	CYC	OB-C4B-C3B	-2.93	124.86	128.04
29	EJ	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	EL	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	GB	202	PEB	CHC-C1D-ND	-2.93	110.54	113.95
29	FC	201	PEB	CHC-C1D-ND	-2.93	110.54	113.95
29	FE	201	PEB	CHC-C1D-ND	-2.93	110.54	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GM	202	PEB	CHC-C1D-ND	-2.93	110.54	113.95
29	H7	1002	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	H9	1002	PEB	C1B-C2B-C3B	-2.93	103.14	106.51
29	Q2	202	PEB	CHA-C1B-NB	-2.93	118.80	124.93
31	D7	1001	CYC	CAA-CBA-CGA	2.93	119.91	113.60
31	D9	1001	CYC	CAA-CBA-CGA	2.93	119.91	113.60
29	DK	1002	PEB	CMB-C2B-C1B	2.93	129.58	125.06
29	JB	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	JM	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	JG	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	JQ	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
31	L7	1001	CYC	CAA-CBA-CGA	2.93	119.91	113.60
29	gJ	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	gL	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	N3	203	PEB	CHB-C4B-NB	-2.93	124.76	128.83
29	eB	202	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	eM	202	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	DB	201	PEB	CHA-C1B-NB	-2.93	118.80	124.93
29	DM	201	PEB	CHA-C1B-NB	-2.93	118.80	124.93
29	WJ	201	PEB	C1C-CHB-C4B	2.93	132.31	128.81
29	WL	201	PEB	C1C-CHB-C4B	2.93	132.31	128.81
29	AJ	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	AL	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	IB	202	PEB	CHC-C1D-ND	-2.93	110.55	113.95
29	IM	202	PEB	CHC-C1D-ND	-2.93	110.55	113.95
29	CA	201	PEB	CHC-C4C-C3C	-2.93	125.34	130.34
29	CN	201	PEB	CHC-C4C-C3C	-2.93	125.34	130.34
29	SR	202	PEB	CHA-C1B-NB	-2.93	118.81	124.93
31	WP	1001	CYC	C2C-C1C-NC	2.93	110.80	108.27
29	NJ	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	NL	203	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	KJ	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	KL	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	eR	401	PEB	CHB-C4B-NB	-2.93	124.76	128.83
29	AB	303	PEB	C3B-C4B-NB	2.93	114.31	110.05
31	F7	1001	CYC	CAA-CBA-CGA	2.93	119.91	113.60
29	iB	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	iM	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	DG	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	DQ	201	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
31	HF	1001	CYC	CHB-C4A-C3A	2.93	132.43	124.90
31	HI	1001	CYC	CHB-C4A-C3A	2.93	132.43	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gB	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	gM	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	R1	201	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	RK	201	PEB	OD-C4D-ND	-2.93	121.59	125.93
31	F9	1001	CYC	CAA-CBA-CGA	2.93	119.90	113.60
29	KC	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	KE	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	K4	202	PEB	C1B-C2B-C3B	-2.93	103.15	106.51
29	KD	202	PEB	C1B-C2B-C3B	-2.93	103.15	106.51
29	mJ	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	mL	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	GG	201	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	JG	203	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	GQ	201	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	mB	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	mM	203	PEB	CHA-C4A-NA	-2.93	121.72	125.20
29	b1	201	PEB	CMA-C2A-C1A	-2.93	106.09	112.40
29	bK	201	PEB	CMA-C2A-C1A	-2.93	106.09	112.40
31	J9	1001	CYC	OC-C1C-C2C	-2.93	123.85	126.17
29	I4	203	PEB	C3B-C4B-NB	2.93	114.31	110.05
29	GJ	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	GL	201	PEB	CAB-C3B-C4B	2.93	130.19	125.01
29	CB	202	PEB	CHC-C1D-ND	-2.93	110.55	113.95
29	CM	202	PEB	CHC-C1D-ND	-2.93	110.55	113.95
29	LJ	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	LL	202	PEB	C4B-C3B-C2B	-2.93	103.54	106.78
29	AJ	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
29	AL	202	PEB	OD-C4D-ND	-2.93	121.59	125.93
30	BB	302	PUB	OA-C1A-NA	-2.93	121.59	125.93
30	BM	302	PUB	OA-C1A-NA	-2.93	121.59	125.93
29	I4	202	PEB	C1B-C2B-C3B	-2.93	103.15	106.51
31	gP	1001	CYC	CHA-C1A-NA	-2.93	124.77	128.83
29	F4	201	PEB	C1C-CHB-C4B	-2.93	125.31	128.81
29	N7	1002	PEB	CAB-CBB-CGB	-2.93	107.31	113.60
29	L9	1002	PEB	CAB-CBB-CGB	-2.93	107.31	113.60
29	N9	1002	PEB	CAB-CBB-CGB	-2.93	107.31	113.60
29	D7	1002	PEB	CAB-CBB-CGB	-2.93	107.31	113.60
29	D9	1002	PEB	CAB-CBB-CGB	-2.93	107.31	113.60
31	NK	1001	CYC	C2A-C1A-NA	2.93	114.30	110.05
29	Y7	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	Y9	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	QB	202	PEB	OD-C4D-ND	-2.92	121.60	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IJ	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	IL	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	QM	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	L1	1002	PEB	CMB-C2B-C1B	2.92	129.57	125.06
29	LK	1002	PEB	CMB-C2B-C1B	2.92	129.57	125.06
31	LF	1001	CYC	CHB-C4A-C3A	2.92	132.42	124.90
31	LI	1001	CYC	CHB-C4A-C3A	2.92	132.42	124.90
29	UB	202	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	jB	202	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	jM	202	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	MQ	401	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	M4	202	PEB	C1B-C2B-C3B	-2.92	103.15	106.51
29	C5	203	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	C8	203	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	i7	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	i9	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	FJ	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	jJ	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	FL	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	jL	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	a1	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
29	aK	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
31	H7	1001	CYC	OC-C1C-C2C	-2.92	123.85	126.17
31	H9	1001	CYC	OC-C1C-C2C	-2.92	123.85	126.17
31	J7	1001	CYC	CAA-CBA-CGA	2.92	119.89	113.60
29	V7	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	m7	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	V9	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	m9	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	pJ	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	pL	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
31	J1	1001	CYC	C2A-C1A-NA	2.92	114.30	110.05
31	JK	1001	CYC	C2A-C1A-NA	2.92	114.30	110.05
29	WJ	202	PEB	CAB-C3B-C4B	2.92	130.18	125.01
29	WL	202	PEB	CAB-C3B-C4B	2.92	130.18	125.01
29	Y1	201	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	YK	201	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	FG	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	FQ	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	J3	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	JO	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	DC	202	PEB	C2A-C1A-NA	2.92	110.79	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DD	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
29	DE	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
31	NF	1001	CYC	CHB-C4A-C3A	2.92	132.42	124.90
31	NI	1001	CYC	CHB-C4A-C3A	2.92	132.42	124.90
29	mB	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	mM	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
31	J9	1001	CYC	CAA-CBA-CGA	2.92	119.89	113.60
29	I3	201	PEB	OA-C1A-C2A	-2.92	123.85	126.17
29	IO	201	PEB	OA-C1A-C2A	-2.92	123.85	126.17
29	LC	203	PEB	C1B-C2B-C3B	-2.92	103.15	106.51
29	LE	203	PEB	C1B-C2B-C3B	-2.92	103.15	106.51
29	tJ	202	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	tL	202	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	e7	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	e9	201	PEB	CHC-C4C-C3C	-2.92	125.35	130.34
29	O7	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	O9	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	I3	203	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	IO	203	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	F4	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
29	DC	201	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	DE	201	PEB	CHC-C1D-ND	-2.92	110.55	113.95
29	bJ	203	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	bL	203	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	JJ	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	RJ	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	JL	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	RL	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	JB	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	JM	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	F4	201	PEB	OD-C4D-C3D	-2.92	122.84	129.46
29	DB	203	PEB	CHA-C4A-NA	-2.92	121.73	125.20
29	DM	203	PEB	CHA-C4A-NA	-2.92	121.73	125.20
29	KG	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	hJ	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	hL	201	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	KQ	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	LD	202	PEB	C2A-C1A-NA	2.92	110.79	108.27
29	eJ	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	eL	202	PEB	OD-C4D-ND	-2.92	121.60	125.93
29	EC	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	EE	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UF	201	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	UI	201	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	aB	202	PEB	CHC-C1D-ND	-2.92	110.56	113.95
29	aM	202	PEB	CHC-C1D-ND	-2.92	110.56	113.95
29	EG	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	EQ	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	FC	203	PEB	C1B-C2B-C3B	-2.92	103.16	106.51
29	FE	203	PEB	C1B-C2B-C3B	-2.92	103.16	106.51
29	YJ	201	PEB	CAB-C3B-C4B	2.92	130.17	125.01
29	YL	201	PEB	CAB-C3B-C4B	2.92	130.17	125.01
31	L1	1001	CYC	C2A-C1A-NA	2.92	114.30	110.05
31	LK	1001	CYC	C2A-C1A-NA	2.92	114.30	110.05
29	I4	203	PEB	OD-C4D-C3D	-2.92	122.84	129.46
29	iF	202	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	iI	202	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	S2	202	PEB	CHA-C1B-NB	-2.92	118.83	124.93
29	M3	203	PEB	CHB-C4B-NB	-2.92	124.78	128.83
29	MO	203	PEB	CHB-C4B-NB	-2.92	124.78	128.83
29	HC	201	PEB	CHC-C1D-ND	-2.92	110.56	113.95
29	HE	201	PEB	CHC-C1D-ND	-2.92	110.56	113.95
31	eP	1001	CYC	OC-C1C-C2C	-2.92	123.85	126.17
29	CC	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	CE	201	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
29	XJ	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	XL	202	PEB	C1C-CHB-C4B	2.92	132.30	128.81
29	AG	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	AQ	202	PEB	C3B-C4B-NB	2.92	114.30	110.05
29	HD	201	PEB	OD-C4D-C3D	-2.92	122.85	129.46
29	cB	203	PEB	CHA-C4A-NA	-2.92	121.73	125.20
29	cM	203	PEB	CHA-C4A-NA	-2.92	121.73	125.20
29	F7	1002	PEB	CAB-CBB-CGB	-2.92	107.32	113.60
29	aF	202	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	aI	202	PEB	CMB-C2B-C1B	2.92	129.56	125.06
29	nJ	201	PEB	C3B-C4B-NB	2.92	114.29	110.05
29	nL	201	PEB	C3B-C4B-NB	2.92	114.29	110.05
31	F1	1001	CYC	C2A-C1A-NA	2.92	114.29	110.05
31	FK	1001	CYC	C2A-C1A-NA	2.92	114.29	110.05
29	J4	201	PEB	C1C-CHB-C4B	-2.92	125.32	128.81
29	K5	203	PEB	C4B-C3B-C2B	-2.92	103.55	106.78
31	FF	1001	CYC	CHB-C4A-C3A	2.92	132.40	124.90
31	FI	1001	CYC	CHB-C4A-C3A	2.92	132.40	124.90
29	wJ	302	PEB	OD-C4D-C3D	-2.92	122.85	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZB	201	PEB	CBC-CAC-C2C	-2.92	107.64	112.62
29	ZM	201	PEB	CBC-CAC-C2C	-2.92	107.64	112.62
29	O2	202	PEB	CHA-C1B-NB	-2.92	118.83	124.93
29	AM	303	PEB	C3B-C4B-NB	2.92	114.29	110.05
29	RB	202	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	KG	201	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	YJ	202	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	YL	202	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	RM	202	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	KQ	201	PEB	OD-C4D-ND	-2.92	121.61	125.93
30	MQ	404	PUB	OA-C1A-NA	-2.92	121.61	125.93
29	wJ	303	PEB	C2A-C1A-NA	2.92	110.79	108.27
31	E7	1001	CYC	C4D-CHA-C1A	2.92	132.29	128.81
31	E9	1001	CYC	C4D-CHA-C1A	2.92	132.29	128.81
29	IC	201	PEB	C1C-CHB-C4B	-2.92	125.33	128.81
29	IE	201	PEB	C1C-CHB-C4B	-2.92	125.33	128.81
31	H7	1001	CYC	CAA-CBA-CGA	2.92	119.88	113.60
31	H9	1001	CYC	CAA-CBA-CGA	2.92	119.88	113.60
29	EB	202	PEB	CHC-C1D-ND	-2.92	110.56	113.95
29	EM	202	PEB	CHC-C1D-ND	-2.92	110.56	113.95
29	F9	1002	PEB	CAB-CBB-CGB	-2.92	107.33	113.60
29	MN	401	PEB	C1B-C2B-C3B	-2.92	103.16	106.51
29	g1	201	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	gK	201	PEB	OD-C4D-ND	-2.92	121.61	125.93
29	HJ	202	PEB	C4B-C3B-C2B	-2.92	103.56	106.78
29	HL	202	PEB	C4B-C3B-C2B	-2.92	103.56	106.78
29	FB	203	PEB	CHA-C4A-NA	-2.92	121.74	125.20
29	FM	203	PEB	CHA-C4A-NA	-2.92	121.74	125.20
29	T7	201	PEB	CHC-C4C-C3C	-2.92	125.36	130.34
29	T9	201	PEB	CHC-C4C-C3C	-2.92	125.36	130.34
31	WP	1001	CYC	C4A-C3A-C2A	-2.91	103.16	106.51
29	oJ	202	PEB	OD-C4D-ND	-2.91	121.61	125.93
29	oL	202	PEB	OD-C4D-ND	-2.91	121.61	125.93
29	W1	201	PEB	CMA-C2A-C1A	-2.91	106.12	112.40
29	WK	201	PEB	CMA-C2A-C1A	-2.91	106.12	112.40
29	J4	201	PEB	OD-C4D-C3D	-2.91	122.86	129.46
31	I1	1001	CYC	C1A-C2A-C3A	-2.91	103.56	106.78
31	JF	1001	CYC	CHB-C4A-C3A	2.91	132.39	124.90
31	JI	1001	CYC	CHB-C4A-C3A	2.91	132.39	124.90
29	MJ	202	PEB	OD-C4D-ND	-2.91	121.61	125.93
29	ML	202	PEB	OD-C4D-ND	-2.91	121.61	125.93
31	CP	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F5	202	PEB	C1B-C2B-C3B	-2.91	103.16	106.51
29	eJ	201	PEB	CAB-C3B-C4B	2.91	130.16	125.01
29	eL	201	PEB	CAB-C3B-C4B	2.91	130.16	125.01
29	Z1	202	PEB	CMA-C2A-C1A	-2.91	106.12	112.40
29	ZK	202	PEB	CMA-C2A-C1A	-2.91	106.12	112.40
29	M4	203	PEB	OD-C4D-C3D	-2.91	122.86	129.46
29	FA	203	PEB	OD-C4D-C3D	-2.91	122.86	129.46
29	FN	203	PEB	OD-C4D-C3D	-2.91	122.86	129.46
29	F3	201	PEB	CHC-C4C-C3C	-2.91	125.37	130.34
29	FO	201	PEB	CHC-C4C-C3C	-2.91	125.37	130.34
29	wL	302	PEB	OD-C4D-C3D	-2.91	122.86	129.46
29	PB	202	PEB	CHA-C4A-NA	-2.91	121.74	125.20
29	kB	203	PEB	CHA-C4A-NA	-2.91	121.74	125.20
29	PM	202	PEB	CHA-C4A-NA	-2.91	121.74	125.20
29	kM	203	PEB	CHA-C4A-NA	-2.91	121.74	125.20
29	H8	202	PEB	C1B-C2B-C3B	-2.91	103.16	106.51
29	OJ	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	OL	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	iB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	XJ	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	XL	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	iM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	JJ	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	JL	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	iJ	201	PEB	CAB-C3B-C4B	2.91	130.16	125.01
29	iL	201	PEB	CAB-C3B-C4B	2.91	130.16	125.01
29	PF	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	YF	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	eF	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	PI	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	YI	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	eI	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	l1	201	PEB	CMA-C2A-C1A	-2.91	106.13	112.40
29	lK	201	PEB	CMA-C2A-C1A	-2.91	106.13	112.40
29	rJ	202	PEB	C1C-CHB-C4B	2.91	132.29	128.81
29	rL	202	PEB	C1C-CHB-C4B	2.91	132.29	128.81
29	O2	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	XB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	XM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	kF	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	kI	202	PEB	CMB-C2B-C1B	2.91	129.55	125.06
29	EJ	202	PEB	OD-C4D-ND	-2.91	121.62	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	EL	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	bJ	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	bL	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
31	HK	1001	CYC	C2A-C1A-NA	2.91	114.28	110.05
29	I5	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	AF	304	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	AI	304	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	PJ	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	nJ	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	PL	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	nL	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	XB	201	PEB	CBC-CAC-C2C	-2.91	107.65	112.62
29	XM	201	PEB	CBC-CAC-C2C	-2.91	107.65	112.62
29	LJ	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	LL	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	TF	201	PEB	CHC-C1D-ND	-2.91	110.57	113.95
29	gF	202	PEB	CMB-C2B-C1B	2.91	129.54	125.06
29	gI	202	PEB	CMB-C2B-C1B	2.91	129.54	125.06
29	D3	201	PEB	CHC-C4C-C3C	-2.91	125.38	130.34
29	DO	201	PEB	CHC-C4C-C3C	-2.91	125.38	130.34
29	hB	202	PEB	CHC-C1D-ND	-2.91	110.57	113.95
29	hM	202	PEB	CHC-C1D-ND	-2.91	110.57	113.95
29	D4	201	PEB	OD-C4D-C3D	-2.91	122.87	129.46
29	BQ	203	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	IA	202	PEB	CMD-C2D-C3D	2.91	134.17	130.06
29	IN	202	PEB	CMD-C2D-C3D	2.91	134.17	130.06
29	kB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	kM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	mF	202	PEB	CMB-C2B-C1B	2.91	129.54	125.06
29	mI	202	PEB	CMB-C2B-C1B	2.91	129.54	125.06
29	L7	1002	PEB	CAB-CBB-CGB	-2.91	107.34	113.60
29	S1	201	PEB	CMA-C2A-C1A	-2.91	106.13	112.40
29	SK	201	PEB	CMA-C2A-C1A	-2.91	106.13	112.40
29	RJ	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	RL	203	PEB	C4B-C3B-C2B	-2.91	103.56	106.78
29	W2	202	PEB	CHA-C1B-NB	-2.91	118.85	124.93
29	B3	201	PEB	CHC-C4C-C3C	-2.91	125.38	130.34
29	BO	201	PEB	CHC-C4C-C3C	-2.91	125.38	130.34
29	DC	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	DE	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
31	tP	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17
29	O1	201	PEB	CMA-C2A-C1A	-2.91	106.14	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OK	201	PEB	CMA-C2A-C1A	-2.91	106.14	112.40
29	gJ	201	PEB	CAB-C3B-C4B	2.91	130.15	125.01
29	gL	201	PEB	CAB-C3B-C4B	2.91	130.15	125.01
29	PB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	PM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	G4	202	PEB	C1B-C2B-C3B	-2.91	103.17	106.51
29	UR	202	PEB	CHA-C1B-NB	-2.91	118.85	124.93
29	Z1	201	PEB	C2A-C1A-NA	2.91	110.78	108.27
29	ZK	201	PEB	C2A-C1A-NA	2.91	110.78	108.27
29	BA	203	PEB	OD-C4D-C3D	-2.91	122.87	129.46
29	BN	203	PEB	OD-C4D-C3D	-2.91	122.87	129.46
29	j7	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	j9	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	mB	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	kJ	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	kL	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	mM	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	OB	202	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	WB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	OM	202	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	WM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	J5	202	PEB	OA-C1A-C2A	-2.91	123.86	126.17
29	J8	202	PEB	OA-C1A-C2A	-2.91	123.86	126.17
29	BA	201	PEB	OA-C1A-C2A	-2.91	123.86	126.17
29	BN	201	PEB	OA-C1A-C2A	-2.91	123.86	126.17
31	N7	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17
31	N9	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17
29	LC	201	PEB	CHC-C1D-ND	-2.91	110.57	113.95
29	LE	201	PEB	CHC-C1D-ND	-2.91	110.57	113.95
29	TJ	203	PEB	C4B-C3B-C2B	-2.91	103.57	106.78
29	TL	203	PEB	C4B-C3B-C2B	-2.91	103.57	106.78
29	JA	203	PEB	OD-C4D-C3D	-2.91	122.88	129.46
29	JN	203	PEB	OD-C4D-C3D	-2.91	122.88	129.46
29	S7	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	S9	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	kB	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	kM	202	PEB	OD-C4D-ND	-2.91	121.62	125.93
29	rJ	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	rL	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	lJ	203	PEB	C4B-C3B-C2B	-2.91	103.57	106.78
29	lL	203	PEB	C4B-C3B-C2B	-2.91	103.57	106.78
29	JD	201	PEB	OD-C4D-C3D	-2.91	122.88	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Q7	202	PEB	OD-C4D-ND	-2.91	121.63	125.93
29	Q9	202	PEB	OD-C4D-ND	-2.91	121.63	125.93
29	GJ	202	PEB	OD-C4D-ND	-2.91	121.63	125.93
29	GL	202	PEB	OD-C4D-ND	-2.91	121.63	125.93
31	yP	1001	CYC	C4A-C3A-C2A	-2.91	103.17	106.51
31	KP	1001	CYC	OC-C1C-C2C	-2.91	123.86	126.17
29	fB	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	fM	201	PEB	C3B-C4B-NB	2.91	114.28	110.05
29	h1	201	PEB	CMA-C2A-C1A	-2.91	106.14	112.40
29	hK	201	PEB	CMA-C2A-C1A	-2.91	106.14	112.40
31	C7	1001	CYC	C4D-CHA-C1A	2.90	132.28	128.81
31	C9	1001	CYC	C4D-CHA-C1A	2.90	132.28	128.81
29	U2	202	PEB	CHA-C1B-NB	-2.90	118.86	124.93
29	FG	203	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	rJ	203	PEB	C4B-C3B-C2B	-2.90	103.57	106.78
29	rL	203	PEB	C4B-C3B-C2B	-2.90	103.57	106.78
29	H4	201	PEB	OD-C4D-C3D	-2.90	122.88	129.46
29	BC	203	PEB	C1B-C2B-C3B	-2.90	103.17	106.51
29	BE	203	PEB	C1B-C2B-C3B	-2.90	103.17	106.51
29	CG	202	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	CQ	202	PEB	C3B-C4B-NB	2.90	114.27	110.05
31	N1	1001	CYC	C2A-C1A-NA	2.90	114.27	110.05
29	S7	202	PEB	OD-C4D-C3D	-2.90	122.88	129.46
29	S9	202	PEB	OD-C4D-C3D	-2.90	122.88	129.46
29	NJ	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	bJ	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	NL	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	bL	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	fF	201	PEB	CHB-C4B-C3B	-2.90	118.61	125.32
29	fI	201	PEB	CHB-C4B-C3B	-2.90	118.61	125.32
29	Q1	201	PEB	CMA-C2A-C1A	-2.90	106.14	112.40
29	QK	201	PEB	CMA-C2A-C1A	-2.90	106.14	112.40
29	A9	304	PEB	C2A-C1A-NA	2.90	110.78	108.27
29	l7	202	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	l9	202	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	HJ	201	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	HL	201	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	KB	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	KM	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	KB	203	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	KM	203	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	hF	201	PEB	CHB-C4B-C3B	-2.90	118.61	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hI	201	PEB	CHB-C4B-C3B	-2.90	118.61	125.32
29	UB	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	UM	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	HK	1002	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	WJ	203	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	WL	203	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	B5	203	PEB	C4B-C3B-C2B	-2.90	103.57	106.78
29	kB	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	kM	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	JC	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	JE	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	FJ	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	FL	202	PEB	C1C-CHB-C4B	2.90	132.28	128.81
29	FD	201	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	d7	202	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	d9	202	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	D4	202	PEB	C2A-C1A-NA	2.90	110.77	108.27
29	KA	202	PEB	CMD-C2D-C3D	2.90	134.16	130.06
29	KN	202	PEB	CMD-C2D-C3D	2.90	134.16	130.06
29	OF	203	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	OI	203	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	CG	201	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	CQ	201	PEB	OD-C4D-ND	-2.90	121.63	125.93
29	A7	305	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	A9	305	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	IB	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	IM	201	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	bF	201	PEB	CHB-C4B-C3B	-2.90	118.62	125.32
29	bI	201	PEB	CHB-C4B-C3B	-2.90	118.62	125.32
29	L4	201	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	DA	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	DN	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	iB	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	iM	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	d1	201	PEB	CMA-C2A-C1A	-2.90	106.15	112.40
29	dK	201	PEB	CMA-C2A-C1A	-2.90	106.15	112.40
29	L4	201	PEB	C1C-CHB-C4B	-2.90	125.34	128.81
29	QB	203	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	QB	204	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	QM	203	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	QM	204	PEB	C3B-C4B-NB	2.90	114.27	110.05
29	JC	201	PEB	CHC-C1D-ND	-2.90	110.58	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JE	201	PEB	CHC-C1D-ND	-2.90	110.58	113.95
29	H4	201	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	DC	202	PEB	C1B-C2B-C3B	-2.90	103.18	106.51
29	DE	202	PEB	C1B-C2B-C3B	-2.90	103.18	106.51
29	UF	202	PEB	CHB-C4B-C3B	-2.90	118.62	125.32
29	UI	202	PEB	CHB-C4B-C3B	-2.90	118.62	125.32
29	LA	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	LN	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	WR	202	PEB	CHA-C1B-NB	-2.90	118.87	124.93
29	Q7	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	b7	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	Q9	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	b9	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	DB	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	DM	201	PEB	CBC-CAC-C2C	-2.90	107.67	112.62
29	dB	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	VJ	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	VL	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	dM	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	M2	202	PEB	CHA-C1B-NB	-2.90	118.87	124.93
29	M3	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	O7	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	O9	202	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	MO	203	PEB	OD-C4D-C3D	-2.90	122.89	129.46
29	FD	201	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	A1	301	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
29	AK	301	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
29	EG	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
29	EQ	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
30	wL	304	PUB	CAC-CBC-CGC	-2.90	107.37	113.60
29	H1	1002	PEB	CMB-C2B-C1B	2.90	129.53	125.06
29	GD	202	PEB	C1B-C2B-C3B	-2.90	103.18	106.51
29	BC	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
29	BE	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
29	F3	202	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
29	FO	202	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
29	e2	401	PEB	CHB-C4B-NB	-2.90	124.81	128.83
29	aB	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	aM	201	PEB	C3B-C4B-NB	2.90	114.26	110.05
29	V2	201	PEB	OD-C4D-C3D	-2.90	122.90	129.46
29	f7	202	PEB	OD-C4D-C3D	-2.90	122.90	129.46
29	f9	202	PEB	OD-C4D-C3D	-2.90	122.90	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HA	203	PEB	OD-C4D-C3D	-2.90	122.90	129.46
29	HN	203	PEB	OD-C4D-C3D	-2.90	122.90	129.46
29	G5	202	PEB	C1B-C2B-C3B	-2.90	103.18	106.51
29	G8	202	PEB	C1B-C2B-C3B	-2.90	103.18	106.51
29	dJ	203	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
29	dL	203	PEB	C4B-C3B-C2B	-2.90	103.58	106.78
31	yP	1001	CYC	C2C-C1C-NC	2.90	110.77	108.27
29	fI	201	PEB	CMA-C2A-C1A	-2.90	106.16	112.40
29	fK	201	PEB	CMA-C2A-C1A	-2.90	106.16	112.40
29	HC	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
29	HE	201	PEB	OD-C4D-ND	-2.90	121.64	125.93
29	HA	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	HG	201	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	HN	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	HQ	201	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	L3	201	PEB	CHC-C4C-C3C	-2.89	125.40	130.34
29	LO	201	PEB	CHC-C4C-C3C	-2.89	125.40	130.34
30	xL	304	PUB	CAC-CBC-CGC	-2.89	107.38	113.60
29	A3	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
29	DA	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
29	DN	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
29	AO	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
29	HA	203	PEB	C1C-CHB-C4B	-2.89	125.35	128.81
29	HN	203	PEB	C1C-CHB-C4B	-2.89	125.35	128.81
29	AA	202	PEB	CMD-C2D-C3D	2.89	134.15	130.06
29	AN	202	PEB	CMD-C2D-C3D	2.89	134.15	130.06
29	TB	201	PEB	CBC-CAC-C2C	-2.89	107.68	112.62
29	TM	201	PEB	CBC-CAC-C2C	-2.89	107.68	112.62
29	gB	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
29	gM	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
29	E3	201	PEB	OD-C4D-ND	-2.89	121.64	125.93
29	W7	202	PEB	OD-C4D-ND	-2.89	121.64	125.93
29	W9	202	PEB	OD-C4D-ND	-2.89	121.64	125.93
29	DG	203	PEB	OD-C4D-ND	-2.89	121.64	125.93
29	EO	201	PEB	OD-C4D-ND	-2.89	121.64	125.93
29	JD	201	PEB	C1C-CHB-C4B	-2.89	125.35	128.81
29	TJ	202	PEB	C1C-CHB-C4B	2.89	132.26	128.81
29	TL	202	PEB	C1C-CHB-C4B	2.89	132.26	128.81
29	J4	202	PEB	C2A-C1A-NA	2.89	110.77	108.27
29	mB	201	PEB	CBC-CAC-C2C	-2.89	107.68	112.62
29	mM	201	PEB	CBC-CAC-C2C	-2.89	107.68	112.62
29	hJ	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hL	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	NB	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
29	ZB	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
29	NM	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
29	ZM	201	PEB	C3B-C4B-NB	2.89	114.26	110.05
31	H1	1001	CYC	C2A-C1A-NA	2.89	114.26	110.05
29	QF	201	PEB	CHB-C4B-C3B	-2.89	118.64	125.32
29	QI	201	PEB	CHB-C4B-C3B	-2.89	118.64	125.32
29	NB	202	PEB	CHA-C4A-NA	-2.89	121.77	125.20
29	NM	202	PEB	CHA-C4A-NA	-2.89	121.77	125.20
29	HC	203	PEB	C1B-C2B-C3B	-2.89	103.19	106.51
29	HE	203	PEB	C1B-C2B-C3B	-2.89	103.19	106.51
29	xJ	302	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	C3	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
29	CO	201	PEB	OA-C1A-C2A	-2.89	123.87	126.17
31	F9	1001	CYC	OC-C1C-C2C	-2.89	123.87	126.17
29	IB	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	IM	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	RB	201	PEB	CBC-CAC-C2C	-2.89	107.69	112.62
29	RM	201	PEB	CBC-CAC-C2C	-2.89	107.69	112.62
29	FA	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	fJ	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	fL	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	FN	203	PEB	C4B-C3B-C2B	-2.89	103.58	106.78
29	aB	203	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	aM	203	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	U7	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	U9	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
31	GK	1001	CYC	C1A-C2A-C3A	-2.89	103.58	106.78
29	cB	201	PEB	CBC-CAC-C2C	-2.89	107.69	112.62
29	cM	201	PEB	CBC-CAC-C2C	-2.89	107.69	112.62
29	IJ	203	PEB	C1C-CHB-C4B	2.89	132.26	128.81
29	IL	203	PEB	C1C-CHB-C4B	2.89	132.26	128.81
29	TJ	203	PEB	C1B-C2B-C3B	-2.89	103.19	106.51
29	TL	203	PEB	C1B-C2B-C3B	-2.89	103.19	106.51
29	j7	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	j9	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	SB	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	jB	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	SM	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	jM	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	OR	201	PEB	C3B-C4B-NB	2.89	114.25	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AG	201	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	kJ	201	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	kL	201	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	AQ	201	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	W7	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	W9	202	PEB	OD-C4D-C3D	-2.89	122.91	129.46
29	xL	302	PEB	OD-C4D-C3D	-2.89	122.91	129.46
30	xJ	304	PUB	CAC-CBC-CGC	-2.89	107.39	113.60
29	N3	203	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	jB	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	GG	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	jM	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	GQ	202	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	LG	203	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	j1	201	PEB	CMA-C2A-C1A	-2.89	106.18	112.40
29	jK	201	PEB	CMA-C2A-C1A	-2.89	106.18	112.40
29	EB	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	eB	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	LC	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	LE	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	EM	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	eM	201	PEB	C3B-C4B-NB	2.89	114.25	110.05
29	MA	401	PEB	C1B-C2B-C3B	-2.89	103.19	106.51
30	QB	201	PUB	OD-C4D-ND	-2.89	121.65	125.93
30	QM	201	PUB	OD-C4D-ND	-2.89	121.65	125.93
29	NR	203	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	DA	203	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
29	pJ	203	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
29	pL	203	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
29	DN	203	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
29	d7	202	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	l7	202	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	d9	202	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	l9	202	PEB	OD-C4D-C3D	-2.89	122.92	129.46
31	IK	1001	CYC	C1A-C2A-C3A	-2.89	103.59	106.78
29	L9	1002	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	f7	202	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	f9	202	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	BG	203	PEB	OD-C4D-ND	-2.89	121.65	125.93
29	jF	201	PEB	CHB-C4B-C3B	-2.89	118.65	125.32
29	jI	201	PEB	CHB-C4B-C3B	-2.89	118.65	125.32
29	HA	201	PEB	OA-C1A-C2A	-2.89	123.88	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HN	201	PEB	OA-C1A-C2A	-2.89	123.88	126.17
29	IF	202	PEB	C2A-C1A-NA	2.89	110.76	108.27
29	II	202	PEB	C2A-C1A-NA	2.89	110.76	108.27
29	L7	1002	PEB	OD-C4D-C3D	-2.89	122.92	129.46
29	A1	302	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
29	AK	302	PEB	C4B-C3B-C2B	-2.89	103.59	106.78
31	M1	1001	CYC	C1A-C2A-C3A	-2.88	103.59	106.78
31	MK	1001	CYC	C1A-C2A-C3A	-2.88	103.59	106.78
29	N2	203	PEB	OD-C4D-C3D	-2.88	122.92	129.46
31	M7	1001	CYC	C4D-CHA-C1A	2.88	132.25	128.81
31	C1	1001	CYC	C1A-C2A-C3A	-2.88	103.59	106.78
29	VB	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	VM	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	VB	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	VM	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	LB	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	hB	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	LM	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	hM	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	JB	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	JM	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	W2	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	A9	304	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	IG	201	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	IQ	201	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	IJ	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	IL	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	pJ	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	pL	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	MB	202	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	MM	202	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	A7	304	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	DB	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	LB	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	DM	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	LM	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	ZB	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	ZM	202	PEB	OD-C4D-ND	-2.88	121.66	125.93
29	FB	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	RJ	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	RL	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	FM	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	M2	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	UB	202	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	MQ	401	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	MR	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	S2	201	PEB	C4B-C3B-C2B	-2.88	103.59	106.78
29	BG	201	PEB	C4B-C3B-C2B	-2.88	103.59	106.78
29	BQ	201	PEB	C4B-C3B-C2B	-2.88	103.59	106.78
30	wJ	304	PUB	CAC-CBC-CGC	-2.88	107.41	113.60
29	gB	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	gM	201	PEB	CBC-CAC-C2C	-2.88	107.70	112.62
29	BD	201	PEB	OA-C1A-C2A	-2.88	123.88	126.17
31	J7	1001	CYC	OC-C1C-C2C	-2.88	123.88	126.17
29	VR	201	PEB	OD-C4D-C3D	-2.88	122.94	129.46
29	TB	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	TM	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	GA	202	PEB	CMD-C2D-C3D	2.88	134.12	130.06
29	GN	202	PEB	CMD-C2D-C3D	2.88	134.12	130.06
29	C5	201	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	C8	201	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	F4	201	PEB	CMB-C2B-C1B	2.88	129.50	125.06
29	L4	202	PEB	C2A-C1A-NA	2.88	110.75	108.27
29	BC	203	PEB	C2A-C1A-NA	2.88	110.75	108.27
29	BE	203	PEB	C2A-C1A-NA	2.88	110.75	108.27
29	T2	203	PEB	OD-C4D-C3D	-2.88	122.94	129.46
29	EA	202	PEB	CMD-C2D-C3D	2.88	134.12	130.06
29	EN	202	PEB	CMD-C2D-C3D	2.88	134.12	130.06
29	EC	201	PEB	C1C-CHB-C4B	-2.88	125.37	128.81
29	EE	201	PEB	C1C-CHB-C4B	-2.88	125.37	128.81
29	LG	201	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	MQ	402	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	VJ	201	PEB	CBC-CAC-C2C	-2.88	107.71	112.62
29	VL	201	PEB	CBC-CAC-C2C	-2.88	107.71	112.62
29	KJ	201	PEB	OD-C4D-ND	-2.88	121.67	125.93
29	KL	201	PEB	OD-C4D-ND	-2.88	121.67	125.93
30	MN	402	PUB	OD-C4D-ND	-2.88	121.67	125.93
29	RB	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	RM	201	PEB	C3B-C4B-NB	2.88	114.24	110.05
29	DD	201	PEB	OD-C4D-C3D	-2.88	122.94	129.46
29	QF	202	PEB	C2A-C1A-NA	2.88	110.75	108.27
29	QI	202	PEB	C2A-C1A-NA	2.88	110.75	108.27
29	lB	201	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	lM	201	PEB	C3B-C4B-NB	2.88	114.23	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	NF	1001	CYC	C2A-C1A-NA	2.88	114.23	110.05
31	NI	1001	CYC	C2A-C1A-NA	2.88	114.23	110.05
29	hJ	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	hL	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	B4	201	PEB	CMB-C2B-C1B	2.88	129.50	125.06
29	WF	201	PEB	CHB-C4B-C3B	-2.88	118.67	125.32
29	WI	201	PEB	CHB-C4B-C3B	-2.88	118.67	125.32
29	Z7	202	PEB	OD-C4D-C3D	-2.88	122.94	129.46
29	Z9	202	PEB	OD-C4D-C3D	-2.88	122.94	129.46
29	gJ	201	PEB	OD-C4D-ND	-2.88	121.67	125.93
29	gL	201	PEB	OD-C4D-ND	-2.88	121.67	125.93
29	CB	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	CM	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
31	HF	1001	CYC	C2A-C1A-NA	2.88	114.23	110.05
31	HI	1001	CYC	C2A-C1A-NA	2.88	114.23	110.05
29	dJ	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	dL	203	PEB	C1B-C2B-C3B	-2.88	103.20	106.51
29	O2	201	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	W2	201	PEB	C4B-C3B-C2B	-2.88	103.60	106.78
29	AM	301	PEB	OD-C4D-ND	-2.88	121.67	125.93
29	YB	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	hB	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	YM	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	hM	202	PEB	C3B-C4B-NB	2.88	114.23	110.05
29	dF	202	PEB	CHB-C4B-C3B	-2.88	118.68	125.32
29	dI	202	PEB	CHB-C4B-C3B	-2.88	118.68	125.32
29	h7	202	PEB	OD-C4D-C3D	-2.87	122.95	129.46
29	h9	202	PEB	OD-C4D-C3D	-2.87	122.95	129.46
29	NO	203	PEB	OD-C4D-C3D	-2.87	122.95	129.46
30	A1	305	PUB	OD-C4D-ND	-2.87	121.67	125.93
30	AK	305	PUB	OD-C4D-ND	-2.87	121.67	125.93
30	MG	403	PUB	OA-C1A-NA	-2.87	121.67	125.93
29	D7	1002	PEB	CAB-C3B-C2B	2.87	133.23	127.88
29	D9	1002	PEB	CAB-C3B-C2B	2.87	133.23	127.88
29	MB	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	OB	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	YB	203	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	MM	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	OM	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	YM	203	PEB	C3B-C4B-NB	2.87	114.23	110.05
31	LF	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05
31	LI	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HD	201	PEB	CMB-C2B-C1B	2.87	129.49	125.06
29	IJ	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	IL	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	SF	201	PEB	CHB-C4B-C3B	-2.87	118.68	125.32
29	SI	201	PEB	CHB-C4B-C3B	-2.87	118.68	125.32
29	J9	1002	PEB	CAB-C3B-C2B	2.87	133.23	127.88
29	e2	402	PEB	OD-C4D-C3D	-2.87	122.95	129.46
29	VR	203	PEB	OD-C4D-C3D	-2.87	122.95	129.46
29	DC	201	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	FC	201	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	DE	201	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	FE	201	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	WJ	202	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	WL	202	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	cB	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	cM	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	U7	202	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	U9	202	PEB	OD-C4D-ND	-2.87	121.67	125.93
29	PB	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	PM	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	nJ	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	nL	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	JA	203	PEB	C1C-CHB-C4B	-2.87	125.38	128.81
29	JN	203	PEB	C1C-CHB-C4B	-2.87	125.38	128.81
29	GB	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	GM	201	PEB	C3B-C4B-NB	2.87	114.23	110.05
31	DF	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05
31	DI	1001	CYC	C2A-C1A-NA	2.87	114.23	110.05
29	KB	202	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	KM	202	PEB	C3B-C4B-NB	2.87	114.23	110.05
29	A7	304	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	zJ	501	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	HC	203	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	HE	203	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	bF	202	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	bI	202	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	EB	202	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	EM	202	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	eB	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	eM	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	PJ	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51
29	PL	203	PEB	C1B-C2B-C3B	-2.87	103.21	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b7	202	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	b9	202	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	J4	201	PEB	CMB-C2B-C1B	2.87	129.48	125.06
29	JB	201	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	JM	201	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	UR	201	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	V2	203	PEB	OD-C4D-C3D	-2.87	122.96	129.46
29	NB	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	NM	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	CJ	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	CL	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	LC	203	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	LE	203	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	LB	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	fJ	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	fL	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	LM	201	PEB	CBC-CAC-C2C	-2.87	107.72	112.62
29	A3	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	AO	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	R2	201	PEB	OD-C4D-C3D	-2.87	122.96	129.46
29	J7	1002	PEB	CAB-C3B-C2B	2.87	133.22	127.88
29	GJ	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	QJ	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	GL	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	QL	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	FB	201	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	FM	201	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	IJ	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	IL	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	JC	202	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	JE	202	PEB	C2A-C1A-NA	2.87	110.75	108.27
29	X2	202	PEB	OD-C4D-C3D	-2.87	122.96	129.46
29	N7	1002	PEB	CAB-C3B-C2B	2.87	133.22	127.88
29	N9	1002	PEB	CAB-C3B-C2B	2.87	133.22	127.88
29	HB	201	PEB	CBC-CAC-C2C	-2.87	107.73	112.62
29	HM	201	PEB	CBC-CAC-C2C	-2.87	107.73	112.62
29	JJ	203	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	LJ	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	tJ	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	JL	203	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	LL	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	tL	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZF	201	PEB	CHB-C4B-C3B	-2.87	118.70	125.32
29	ZI	201	PEB	CHB-C4B-C3B	-2.87	118.70	125.32
29	mJ	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	mL	201	PEB	OD-C4D-ND	-2.87	121.68	125.93
29	H3	202	PEB	C4B-C3B-C2B	-2.87	103.61	106.78
29	HO	202	PEB	C4B-C3B-C2B	-2.87	103.61	106.78
29	lB	202	PEB	C3B-C4B-NB	2.87	114.22	110.05
29	lM	202	PEB	C3B-C4B-NB	2.87	114.22	110.05
31	DF	1001	CYC	CAD-CBD-CGD	-2.87	105.72	113.76
31	DI	1001	CYC	CAD-CBD-CGD	-2.87	105.72	113.76
29	CC	201	PEB	C1C-CHB-C4B	-2.87	125.39	128.81
29	CE	201	PEB	C1C-CHB-C4B	-2.87	125.39	128.81
29	AM	303	PEB	OD-C4D-C3D	-2.87	122.97	129.46
29	T2	201	PEB	OD-C4D-C3D	-2.87	122.97	129.46
29	H7	1002	PEB	CAB-C3B-C2B	2.87	133.22	127.88
29	H9	1002	PEB	CAB-C3B-C2B	2.87	133.22	127.88
29	VJ	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	VL	202	PEB	C1B-C2B-C3B	-2.87	103.22	106.51
29	AB	303	PEB	C1C-CHB-C4B	-2.86	125.39	128.81
29	fB	202	PEB	C3B-C4B-NB	2.86	114.22	110.05
29	fM	202	PEB	C3B-C4B-NB	2.86	114.22	110.05
29	DJ	201	PEB	CBC-CAC-C2C	-2.86	107.73	112.62
29	DL	201	PEB	CBC-CAC-C2C	-2.86	107.73	112.62
31	JF	1001	CYC	CAD-CBD-CGD	-2.86	105.73	113.76
31	JI	1001	CYC	CAD-CBD-CGD	-2.86	105.73	113.76
29	BA	203	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	BN	203	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	SB	202	PEB	C3B-C4B-NB	2.86	114.22	110.05
29	SM	202	PEB	C3B-C4B-NB	2.86	114.22	110.05
29	WR	201	PEB	C3B-C4B-NB	2.86	114.22	110.05
31	F7	1001	CYC	OC-C1C-C2C	-2.86	123.90	126.17
29	nJ	201	PEB	CBC-CAC-C2C	-2.86	107.73	112.62
29	nL	201	PEB	CBC-CAC-C2C	-2.86	107.73	112.62
29	g7	201	PEB	C1B-C2B-C3B	-2.86	103.22	106.51
29	g9	201	PEB	C1B-C2B-C3B	-2.86	103.22	106.51
29	RR	203	PEB	OD-C4D-C3D	-2.86	122.97	129.46
29	TR	201	PEB	OD-C4D-C3D	-2.86	122.97	129.46
29	A3	202	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	LC	203	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	LE	203	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	AO	202	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
31	D1	1003	CYC	C1A-C2A-C3A	-2.86	103.61	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FC	203	PEB	C2A-C1A-NA	2.86	110.74	108.27
29	FE	203	PEB	C2A-C1A-NA	2.86	110.74	108.27
29	aB	202	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	aM	202	PEB	C3B-C4B-NB	2.86	114.21	110.05
31	NF	1001	CYC	CAD-CBD-CGD	-2.86	105.73	113.76
31	NI	1001	CYC	CAD-CBD-CGD	-2.86	105.73	113.76
29	R2	203	PEB	OD-C4D-C3D	-2.86	122.97	129.46
29	AB	303	PEB	OD-C4D-C3D	-2.86	122.97	129.46
29	K5	201	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	K8	201	PEB	C4B-C3B-C2B	-2.86	103.61	106.78
29	AC	201	PEB	C1C-CHB-C4B	-2.86	125.39	128.81
29	AE	201	PEB	C1C-CHB-C4B	-2.86	125.39	128.81
29	B8	202	PEB	C1B-C2B-C3B	-2.86	103.22	106.51
29	HJ	202	PEB	C1B-C2B-C3B	-2.86	103.22	106.51
29	HL	202	PEB	C1B-C2B-C3B	-2.86	103.22	106.51
29	BC	201	PEB	CHC-C1D-ND	-2.86	110.62	113.95
29	BE	201	PEB	CHC-C1D-ND	-2.86	110.62	113.95
29	vJ	201	PEB	CBC-CAC-C2C	-2.86	107.74	112.62
29	vL	201	PEB	CBC-CAC-C2C	-2.86	107.74	112.62
29	AF	305	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	AI	305	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	lF	201	PEB	CHB-C4B-C3B	-2.86	118.71	125.32
29	II	201	PEB	CHB-C4B-C3B	-2.86	118.71	125.32
29	FA	203	PEB	C1C-CHB-C4B	-2.86	125.39	128.81
29	FN	203	PEB	C1C-CHB-C4B	-2.86	125.39	128.81
29	I3	203	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
29	IO	203	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
31	E1	1001	CYC	C1A-C2A-C3A	-2.86	103.62	106.78
29	MJ	201	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	ML	201	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	WB	202	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	WM	202	PEB	C3B-C4B-NB	2.86	114.21	110.05
31	LF	1001	CYC	CAD-CBD-CGD	-2.86	105.74	113.76
31	LI	1001	CYC	CAD-CBD-CGD	-2.86	105.74	113.76
29	J9	1002	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	TR	203	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	pJ	201	PEB	CBC-CAC-C2C	-2.86	107.74	112.62
29	pL	201	PEB	CBC-CAC-C2C	-2.86	107.74	112.62
29	HB	202	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	HM	202	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	RR	201	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	JD	201	PEB	CMB-C2B-C1B	2.86	129.47	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N2	201	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	LC	203	PEB	C2A-C1A-NA	2.86	110.74	108.27
29	LE	203	PEB	C2A-C1A-NA	2.86	110.74	108.27
31	VP	1001	CYC	C2C-C1C-NC	2.86	110.74	108.27
29	J4	202	PEB	CMB-C2B-C1B	2.86	129.47	125.06
29	cJ	201	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	cL	201	PEB	OD-C4D-ND	-2.86	121.69	125.93
29	JQ	203	PEB	OD-C4D-ND	-2.86	121.69	125.93
30	MQ	405	PUB	OA-C1A-NA	-2.86	121.69	125.93
29	CB	201	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	CM	201	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	A9	304	PEB	C1B-C2B-C3B	-2.86	103.23	106.51
29	J7	1002	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	O7	201	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	O9	201	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	LQ	202	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	OF	201	PEB	CHB-C4B-C3B	-2.86	118.72	125.32
29	OI	201	PEB	CHB-C4B-C3B	-2.86	118.72	125.32
29	bJ	201	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	bL	201	PEB	OD-C4D-C3D	-2.86	122.98	129.46
29	BC	203	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	HC	203	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	BE	203	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	HE	203	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	AF	304	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	AI	304	PEB	C3B-C4B-NB	2.86	114.21	110.05
29	B3	202	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
29	E3	202	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
29	BO	202	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
29	EO	202	PEB	C4B-C3B-C2B	-2.86	103.62	106.78
29	A1	301	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	AK	301	PEB	OD-C4D-ND	-2.86	121.70	125.93
30	MQ	404	PUB	C4B-CHB-C1C	-2.86	125.40	128.81
31	xP	1001	CYC	C2C-C1C-NC	2.86	110.74	108.27
29	dB	202	PEB	C3B-C4B-NB	2.86	114.20	110.05
29	dM	202	PEB	C3B-C4B-NB	2.86	114.20	110.05
29	AJ	201	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	AL	201	PEB	OD-C4D-ND	-2.86	121.70	125.93
29	N7	1002	PEB	OD-C4D-C3D	-2.86	122.99	129.46
29	N9	1002	PEB	OD-C4D-C3D	-2.86	122.99	129.46
29	LA	203	PEB	C1C-CHB-C4B	-2.86	125.40	128.81
29	LN	203	PEB	C1C-CHB-C4B	-2.86	125.40	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	yL	303	PUB	OD-C4D-ND	-2.86	121.70	125.93
29	JD	202	PEB	C2A-C1A-NA	2.86	110.73	108.27
30	MN	402	PUB	C2C-C1C-NC	2.85	114.20	110.05
29	NJ	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	fJ	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	NL	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	fL	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	dF	203	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	jF	202	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	dI	203	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	jI	202	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	HG	203	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	qJ	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	qL	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	FJ	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	FL	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	F7	1002	PEB	OD-C4D-C3D	-2.85	122.99	129.46
29	XR	201	PEB	OD-C4D-C3D	-2.85	122.99	129.46
29	C3	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	CO	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	JA	203	PEB	C4B-C3B-C2B	-2.85	103.62	106.78
29	JN	203	PEB	C4B-C3B-C2B	-2.85	103.62	106.78
29	tJ	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	tL	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	KC	202	PEB	C1C-CHB-C4B	-2.85	125.40	128.81
29	KE	202	PEB	C1C-CHB-C4B	-2.85	125.40	128.81
29	iJ	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
29	iL	201	PEB	OD-C4D-ND	-2.85	121.70	125.93
30	MA	402	PUB	OD-C4D-ND	-2.85	121.70	125.93
29	ZJ	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	ZL	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	K5	203	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	K8	203	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	GB	202	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	GM	202	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	FG	203	PEB	CHC-C4C-C3C	-2.85	125.47	130.34
29	JQ	203	PEB	CHC-C4C-C3C	-2.85	125.47	130.34
29	L7	1002	PEB	CAB-C3B-C2B	2.85	133.19	127.88
29	vJ	202	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	vL	202	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
31	EK	1001	CYC	C1A-C2A-C3A	-2.85	103.63	106.78
31	I1	1001	CYC	CHB-C1B-NB	-2.85	119.94	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BA	203	PEB	C1C-CHB-C4B	-2.85	125.40	128.81
29	BN	203	PEB	C1C-CHB-C4B	-2.85	125.40	128.81
29	eF	201	PEB	CBB-CAB-C3B	2.85	120.55	112.63
29	eI	201	PEB	CBB-CAB-C3B	2.85	120.55	112.63
31	JF	1001	CYC	C2A-C1A-NA	2.85	114.20	110.05
31	JI	1001	CYC	C2A-C1A-NA	2.85	114.20	110.05
29	LJ	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	LL	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	AB	301	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	HQ	203	PEB	OD-C4D-ND	-2.85	121.71	125.93
30	yJ	302	PUB	OA-C1A-NA	-2.85	121.71	125.93
30	yJ	303	PUB	OA-C1A-NA	-2.85	121.71	125.93
30	yL	302	PUB	OA-C1A-NA	-2.85	121.71	125.93
29	RF	202	PEB	CMB-C2B-C1B	2.85	129.46	125.06
29	RI	202	PEB	CMB-C2B-C1B	2.85	129.46	125.06
29	RJ	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	ZJ	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	RL	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	ZL	203	PEB	C1B-C2B-C3B	-2.85	103.23	106.51
29	BC	203	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	BE	203	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	F9	1002	PEB	OD-C4D-C3D	-2.85	123.00	129.46
29	DB	201	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	HB	201	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	DM	201	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	HM	201	PEB	C3B-C4B-NB	2.85	114.20	110.05
29	hJ	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
29	hL	201	PEB	CBC-CAC-C2C	-2.85	107.75	112.62
31	FF	1001	CYC	CAD-CBD-CGD	-2.85	105.77	113.76
31	FI	1001	CYC	CAD-CBD-CGD	-2.85	105.77	113.76
29	P2	202	PEB	OD-C4D-C3D	-2.85	123.00	129.46
29	HC	203	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	HE	203	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	JJ	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	JL	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	C3	202	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	CO	202	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	QR	201	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	TF	202	PEB	CMB-C2B-C1B	2.85	129.45	125.06
29	eF	203	PEB	CMB-C2B-C1B	2.85	129.45	125.06
29	TI	202	PEB	CMB-C2B-C1B	2.85	129.45	125.06
29	eI	203	PEB	CMB-C2B-C1B	2.85	129.45	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	I3	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	K3	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	LC	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	LE	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	IO	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	KO	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	TJ	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	TL	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	FJ	201	PEB	OD-C4D-C3D	-2.85	123.00	129.46
29	FL	201	PEB	OD-C4D-C3D	-2.85	123.00	129.46
29	PR	202	PEB	OD-C4D-C3D	-2.85	123.00	129.46
30	MQ	404	PUB	C2C-C1C-NC	2.85	114.19	110.05
29	aF	201	PEB	CBB-CAB-C3B	2.85	120.54	112.63
29	aI	201	PEB	CBB-CAB-C3B	2.85	120.54	112.63
29	BJ	203	PEB	C1B-C2B-C3B	-2.85	103.24	106.51
29	BL	203	PEB	C1B-C2B-C3B	-2.85	103.24	106.51
29	EJ	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	EL	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	TJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	TL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	NR	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	bJ	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	bL	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	vJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	vL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	R7	201	PEB	C1B-C2B-C3B	-2.85	103.24	106.51
29	R9	201	PEB	C1B-C2B-C3B	-2.85	103.24	106.51
29	SF	202	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	SI	202	PEB	C2A-C1A-NA	2.85	110.73	108.27
29	OR	201	PEB	C4B-C3B-C2B	-2.85	103.63	106.78
29	PJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	IJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	PL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	IL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
30	MQ	404	PUB	CAB-CBB-CGB	-2.85	105.78	113.76
29	PF	203	PEB	CMB-C2B-C1B	2.85	129.45	125.06
29	PI	203	PEB	CMB-C2B-C1B	2.85	129.45	125.06
29	A1	301	PEB	OA-C1A-C2A	-2.85	123.91	126.17
29	AK	301	PEB	OA-C1A-C2A	-2.85	123.91	126.17
29	RJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	hJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	RL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	QR	201	PEB	C3B-C4B-NB	2.85	114.19	110.05
29	U7	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	h7	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	U9	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	h9	201	PEB	OD-C4D-ND	-2.85	121.71	125.93
29	iF	201	PEB	CBB-CAB-C3B	2.85	120.53	112.63
29	iI	201	PEB	CBB-CAB-C3B	2.85	120.53	112.63
29	jJ	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	jL	201	PEB	CBC-CAC-C2C	-2.85	107.76	112.62
29	tJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	tL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	ZJ	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
29	ZL	201	PEB	OD-C4D-C3D	-2.85	123.01	129.46
31	M9	1001	CYC	C4D-CHA-C1A	2.85	132.21	128.81
31	CK	1001	CYC	C1A-C2A-C3A	-2.84	103.63	106.78
29	cF	201	PEB	CBB-CAB-C3B	2.84	120.53	112.63
29	cI	201	PEB	CBB-CAB-C3B	2.84	120.53	112.63
30	MG	402	PUB	CAB-CBB-CGB	-2.84	105.78	113.76
29	VB	201	PEB	C3B-C4B-NB	2.84	114.19	110.05
29	VM	201	PEB	C3B-C4B-NB	2.84	114.19	110.05
31	FF	1001	CYC	C2A-C1A-NA	2.84	114.19	110.05
31	FI	1001	CYC	C2A-C1A-NA	2.84	114.19	110.05
29	K5	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	rJ	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	rL	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	PR	202	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	HG	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	HQ	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
31	K1	1001	CYC	CHB-C1B-NB	-2.84	119.95	126.06
31	KK	1001	CYC	CHB-C1B-NB	-2.84	119.95	126.06
29	F9	1002	PEB	CAB-C3B-C2B	2.84	133.17	127.88
29	cF	202	PEB	CMB-C2B-C1B	2.84	129.44	125.06
29	cI	202	PEB	CMB-C2B-C1B	2.84	129.44	125.06
29	bJ	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	bL	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
29	VR	203	PEB	C1B-C2B-C3B	-2.84	103.24	106.51
31	xP	1001	CYC	CBB-CAB-C3B	-2.84	104.59	112.43
29	JJ	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	JL	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
31	EK	1001	CYC	CHB-C1B-NB	-2.84	119.95	126.06
30	MG	402	PUB	C2C-C1C-NC	2.84	114.18	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	VJ	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	VL	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	MQ	406	PEB	OD-C4D-C3D	-2.84	123.02	129.46
31	C1	1001	CYC	CHB-C1B-NB	-2.84	119.96	126.06
29	L9	1002	PEB	CHC-C1D-ND	2.84	117.25	113.95
29	nJ	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	nL	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
31	N7	1001	CYC	CAB-C3B-C2B	2.84	132.39	127.53
31	N9	1001	CYC	CAB-C3B-C2B	2.84	132.39	127.53
29	S7	201	PEB	OD-C4D-ND	-2.84	121.72	125.93
29	S9	201	PEB	OD-C4D-ND	-2.84	121.72	125.93
29	OJ	201	PEB	OD-C4D-ND	-2.84	121.72	125.93
29	OL	201	PEB	OD-C4D-ND	-2.84	121.72	125.93
30	yJ	303	PUB	OD-C4D-ND	-2.84	121.72	125.93
31	FP	1001	CYC	OC-C1C-C2C	-2.84	123.91	126.17
29	B5	202	PEB	C1B-C2B-C3B	-2.84	103.25	106.51
29	PJ	201	PEB	CBC-CAC-C2C	-2.84	107.77	112.62
29	PL	201	PEB	CBC-CAC-C2C	-2.84	107.77	112.62
29	UF	203	PEB	C2A-C1A-NA	2.84	110.72	108.27
29	UI	203	PEB	C2A-C1A-NA	2.84	110.72	108.27
29	LJ	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	LL	201	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	XR	203	PEB	OD-C4D-C3D	-2.84	123.02	129.46
29	A7	305	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	A9	305	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	mF	201	PEB	CBB-CAB-C3B	2.84	120.52	112.63
29	mI	201	PEB	CBB-CAB-C3B	2.84	120.52	112.63
29	dJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	dL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	kF	203	PEB	CMB-C2B-C1B	2.84	129.44	125.06
29	kI	203	PEB	CMB-C2B-C1B	2.84	129.44	125.06
30	MG	402	PUB	C4B-CHB-C1C	-2.84	125.42	128.81
29	LD	202	PEB	CMB-C2B-C1B	2.84	129.44	125.06
29	pJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	pL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	I3	202	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	IO	202	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
31	IK	1001	CYC	CHB-C1B-NB	-2.84	119.96	126.06
29	jJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	jL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	A5	203	PEB	C1B-C2B-C3B	-2.84	103.25	106.51
29	A8	203	PEB	C1B-C2B-C3B	-2.84	103.25	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JC	202	PEB	C3B-C4B-NB	2.84	114.18	110.05
29	JE	202	PEB	C3B-C4B-NB	2.84	114.18	110.05
29	LG	203	PEB	CMB-C2B-C1B	2.84	129.43	125.06
29	NJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	NL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	V2	203	PEB	C1B-C2B-C3B	-2.84	103.25	106.51
29	PF	201	PEB	CBB-CAB-C3B	2.84	120.51	112.63
29	YF	201	PEB	CBB-CAB-C3B	2.84	120.51	112.63
29	PI	201	PEB	CBB-CAB-C3B	2.84	120.51	112.63
29	YI	201	PEB	CBB-CAB-C3B	2.84	120.51	112.63
29	F7	1002	PEB	CAB-C3B-C2B	2.84	133.16	127.88
29	L9	1002	PEB	CAB-C3B-C2B	2.84	133.16	127.88
29	MG	404	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	DJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	DL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
31	N7	1001	CYC	CAB-C3B-C4B	2.84	125.86	121.38
31	N9	1001	CYC	CAB-C3B-C4B	2.84	125.86	121.38
29	FQ	203	PEB	CHC-C4C-C3C	-2.84	125.50	130.34
29	DC	202	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	DE	202	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	BJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	rJ	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	BL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
29	rL	201	PEB	OD-C4D-C3D	-2.84	123.03	129.46
31	HF	1001	CYC	CAD-CBD-CGD	-2.84	105.81	113.76
31	HI	1001	CYC	CAD-CBD-CGD	-2.84	105.81	113.76
29	DJ	202	PEB	C1B-C2B-C3B	-2.84	103.25	106.51
29	DL	202	PEB	C1B-C2B-C3B	-2.84	103.25	106.51
29	DD	201	PEB	OA-C1A-C2A	-2.84	123.92	126.17
29	I5	201	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	I8	201	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	UR	201	PEB	C4B-C3B-C2B	-2.84	103.64	106.78
29	LD	201	PEB	CMB-C2B-C1B	2.84	129.43	125.06
29	b7	201	PEB	OD-C4D-ND	-2.84	121.73	125.93
29	b9	201	PEB	OD-C4D-ND	-2.84	121.73	125.93
29	YF	203	PEB	CMB-C2B-C1B	2.84	129.43	125.06
29	YI	203	PEB	CMB-C2B-C1B	2.84	129.43	125.06
29	VF	201	PEB	CBB-CAB-C3B	2.84	120.50	112.63
29	VI	201	PEB	CBB-CAB-C3B	2.84	120.50	112.63
29	fF	202	PEB	C2A-C1A-NA	2.84	110.72	108.27
29	fI	202	PEB	C2A-C1A-NA	2.84	110.72	108.27
29	XJ	201	PEB	CBC-CAC-C2C	-2.84	107.78	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	XL	201	PEB	CBC-CAC-C2C	-2.84	107.78	112.62
29	H7	1002	PEB	OD-C4D-C3D	-2.83	123.04	129.46
29	H9	1002	PEB	OD-C4D-C3D	-2.83	123.04	129.46
29	H5	201	PEB	C1B-C2B-C3B	-2.83	103.25	106.51
29	L5	201	PEB	C1B-C2B-C3B	-2.83	103.25	106.51
29	VF	203	PEB	CMB-C2B-C1B	2.83	129.43	125.06
29	VI	203	PEB	CMB-C2B-C1B	2.83	129.43	125.06
29	DG	203	PEB	CHC-C4C-C3C	-2.83	125.50	130.34
29	H8	201	PEB	C1B-C2B-C3B	-2.83	103.25	106.51
29	J5	202	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	J8	202	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	oJ	201	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	oL	201	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	HQ	203	PEB	CHC-C4C-C3C	-2.83	125.50	130.34
29	N7	1002	PEB	CHC-C1D-ND	2.83	117.24	113.95
29	N9	1002	PEB	CHC-C1D-ND	2.83	117.24	113.95
29	I5	203	PEB	C1B-C2B-C3B	-2.83	103.25	106.51
31	VP	1001	CYC	C1B-CHB-C4A	2.83	135.00	128.08
29	D7	1002	PEB	OD-C4D-C3D	-2.83	123.04	129.46
29	D9	1002	PEB	OD-C4D-C3D	-2.83	123.04	129.46
31	H7	1001	CYC	CAB-C3B-C4B	2.83	125.85	121.38
31	H9	1001	CYC	CAB-C3B-C4B	2.83	125.85	121.38
29	N2	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	m7	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	K8	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	m9	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
30	A1	304	PUB	C1D-CHC-C4C	-2.83	107.21	113.37
30	AK	304	PUB	C1D-CHC-C4C	-2.83	107.21	113.37
29	RF	201	PEB	CBB-CAB-C3B	2.83	120.50	112.63
29	RI	201	PEB	CBB-CAB-C3B	2.83	120.50	112.63
29	W7	201	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	W9	201	PEB	OD-C4D-ND	-2.83	121.73	125.93
29	D4	201	PEB	CMB-C2B-C1B	2.83	129.42	125.06
29	BG	203	PEB	CMB-C2B-C1B	2.83	129.42	125.06
29	UJ	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	UL	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	J4	201	PEB	OA-C1A-C2A	-2.83	123.92	126.17
31	xP	1001	CYC	C1B-CHB-C4A	2.83	135.00	128.08
29	Z7	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	Z9	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	SJ	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	SL	201	PEB	OD-C4D-ND	-2.83	121.74	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZF	202	PEB	C2A-C1A-NA	2.83	110.71	108.27
29	ZI	202	PEB	C2A-C1A-NA	2.83	110.71	108.27
29	DA	203	PEB	C1C-CHB-C4B	-2.83	125.43	128.81
29	AM	303	PEB	C1C-CHB-C4B	-2.83	125.43	128.81
29	DN	203	PEB	C1C-CHB-C4B	-2.83	125.43	128.81
31	J7	1001	CYC	CAB-C3B-C4B	2.83	125.85	121.38
29	gF	201	PEB	CBB-CAB-C3B	2.83	120.49	112.63
29	gI	201	PEB	CBB-CAB-C3B	2.83	120.49	112.63
29	j7	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	j9	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	aJ	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	sJ	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	aL	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	sL	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	rJ	201	PEB	CBC-CAC-C2C	-2.83	107.79	112.62
29	rL	201	PEB	CBC-CAC-C2C	-2.83	107.79	112.62
31	E1	1001	CYC	CHB-C1B-NB	-2.83	119.98	126.06
29	M2	201	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	J3	202	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	JO	202	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	MR	201	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	F3	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	FO	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	DG	201	PEB	OD-C4D-C3D	-2.83	123.05	129.46
29	DQ	201	PEB	OD-C4D-C3D	-2.83	123.05	129.46
29	JC	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	JE	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	eJ	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	eL	201	PEB	OD-C4D-ND	-2.83	121.74	125.93
29	I5	203	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	I8	203	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	A5	201	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	GC	201	PEB	C1C-CHB-C4B	-2.83	125.43	128.81
29	GE	201	PEB	C1C-CHB-C4B	-2.83	125.43	128.81
29	BD	202	PEB	CMB-C2B-C1B	2.83	129.42	125.06
29	FA	201	PEB	OA-C1A-C2A	-2.83	123.92	126.17
29	FN	201	PEB	OA-C1A-C2A	-2.83	123.92	126.17
29	IC	202	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	IE	202	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	hF	202	PEB	C2A-C1A-NA	2.83	110.71	108.27
29	hI	202	PEB	C2A-C1A-NA	2.83	110.71	108.27
29	NJ	201	PEB	CBC-CAC-C2C	-2.83	107.79	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NL	201	PEB	CBC-CAC-C2C	-2.83	107.79	112.62
29	HG	203	PEB	CMB-C2B-C1B	2.83	129.42	125.06
29	k7	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	k9	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	A8	201	PEB	C4B-C3B-C2B	-2.83	103.65	106.78
29	fJ	201	PEB	OD-C4D-C3D	-2.83	123.05	129.46
29	fL	201	PEB	OD-C4D-C3D	-2.83	123.05	129.46
29	BQ	203	PEB	CHC-C4C-C3C	-2.83	125.51	130.34
29	U2	201	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	dJ	201	PEB	CBC-CAC-C2C	-2.83	107.80	112.62
29	dL	201	PEB	CBC-CAC-C2C	-2.83	107.80	112.62
30	A7	303	PUB	OA-C1A-NA	-2.83	121.74	125.93
30	A9	303	PUB	OA-C1A-NA	-2.83	121.74	125.93
29	BA	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	BN	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	BG	203	PEB	OD-C4D-C3D	-2.83	123.06	129.46
29	BJ	201	PEB	CBC-CAC-C2C	-2.83	107.80	112.62
29	BL	201	PEB	CBC-CAC-C2C	-2.83	107.80	112.62
31	VP	1001	CYC	CBB-CAB-C3B	-2.83	104.64	112.43
29	L3	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	LO	201	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	D4	201	PEB	OA-C1A-C2A	-2.83	123.93	126.17
31	D7	1001	CYC	OC-C1C-C2C	-2.83	123.93	126.17
31	D9	1001	CYC	OC-C1C-C2C	-2.83	123.93	126.17
29	FG	201	PEB	OD-C4D-C3D	-2.83	123.06	129.46
29	FQ	201	PEB	OD-C4D-C3D	-2.83	123.06	129.46
29	G3	202	PEB	C4B-C3B-C2B	-2.83	103.66	106.78
29	GO	202	PEB	C4B-C3B-C2B	-2.83	103.66	106.78
31	M1	1001	CYC	CHB-C1B-NB	-2.83	119.99	126.06
31	MK	1001	CYC	CHB-C1B-NB	-2.83	119.99	126.06
29	AC	202	PEB	C3B-C4B-NB	2.83	114.16	110.05
29	AE	202	PEB	C3B-C4B-NB	2.83	114.16	110.05
30	MA	402	PUB	C2C-C1C-NC	2.83	114.16	110.05
29	jJ	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	jL	203	PEB	C1B-C2B-C3B	-2.83	103.26	106.51
29	B4	201	PEB	OA-C1A-C2A	-2.82	123.93	126.17
29	J5	201	PEB	CHC-C4C-C3C	-2.82	125.52	130.34
29	J8	201	PEB	CHC-C4C-C3C	-2.82	125.52	130.34
29	L4	202	PEB	CMB-C2B-C1B	2.82	129.41	125.06
31	F9	1001	CYC	CAB-C3B-C2B	2.82	132.36	127.53
31	D7	1001	CYC	CAB-C3B-C4B	2.82	125.84	121.38
31	D9	1001	CYC	CAB-C3B-C4B	2.82	125.84	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	d7	201	PEB	OD-C4D-ND	-2.82	121.75	125.93
29	d9	201	PEB	OD-C4D-ND	-2.82	121.75	125.93
29	uJ	202	PEB	OD-C4D-ND	-2.82	121.75	125.93
29	uL	202	PEB	OD-C4D-ND	-2.82	121.75	125.93
29	e7	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	e9	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	Q2	201	PEB	C3B-C4B-NB	2.82	114.16	110.05
29	A5	203	PEB	C3B-C4B-NB	2.82	114.16	110.05
29	A8	203	PEB	C3B-C4B-NB	2.82	114.16	110.05
31	CK	1001	CYC	CHB-C1B-NB	-2.82	120.00	126.06
31	F9	1001	CYC	CAB-C3B-C4B	2.82	125.84	121.38
29	FJ	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	FL	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	FG	203	PEB	OD-C4D-C3D	-2.82	123.06	129.46
31	L9	1001	CYC	CAB-C3B-C4B	2.82	125.84	121.38
29	WF	202	PEB	C2A-C1A-NA	2.82	110.71	108.27
29	WI	202	PEB	C2A-C1A-NA	2.82	110.71	108.27
31	MP	1001	CYC	OC-C1C-C2C	-2.82	123.93	126.17
29	DD	201	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	XJ	201	PEB	OD-C4D-C3D	-2.82	123.07	129.46
29	XL	201	PEB	OD-C4D-C3D	-2.82	123.07	129.46
29	J5	202	PEB	CAB-C3B-C4B	2.82	130.00	125.01
29	J8	202	PEB	CAB-C3B-C4B	2.82	130.00	125.01
29	HG	203	PEB	OD-C4D-C3D	-2.82	123.07	129.46
30	yL	303	PUB	OA-C1A-NA	-2.82	121.75	125.93
29	B5	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	L4	201	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	kF	201	PEB	CBB-CAB-C3B	2.82	120.46	112.63
29	kI	201	PEB	CBB-CAB-C3B	2.82	120.46	112.63
29	iF	203	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	iI	203	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	c7	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	i7	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	c9	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	i9	201	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	JA	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	XJ	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	XL	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	JN	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	D3	202	PEB	C3B-C4B-NB	2.82	114.15	110.05
29	JA	201	PEB	OA-C1A-C2A	-2.82	123.93	126.17
29	JN	201	PEB	OA-C1A-C2A	-2.82	123.93	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	CG	201	PEB	C4B-C3B-C2B	-2.82	103.66	106.78
29	EG	201	PEB	C4B-C3B-C2B	-2.82	103.66	106.78
29	CQ	201	PEB	C4B-C3B-C2B	-2.82	103.66	106.78
29	EQ	201	PEB	C4B-C3B-C2B	-2.82	103.66	106.78
29	gF	203	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	gI	203	PEB	CMB-C2B-C1B	2.82	129.41	125.06
29	A1	302	PEB	CAA-C3A-C4A	2.82	119.91	112.67
29	AK	302	PEB	CAA-C3A-C4A	2.82	119.91	112.67
29	J9	1002	PEB	CHC-C1D-ND	2.82	117.22	113.95
29	TR	203	PEB	C1B-C2B-C3B	-2.82	103.27	106.51
29	HD	202	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	DG	203	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	TI	201	PEB	CBB-CAB-C3B	2.82	120.46	112.63
29	DA	201	PEB	CHC-C4C-C3C	-2.82	125.53	130.34
29	DN	201	PEB	CHC-C4C-C3C	-2.82	125.53	130.34
29	FQ	203	PEB	OD-C4D-C3D	-2.82	123.08	129.46
29	P1	203	PEB	C2A-C1A-NA	2.82	110.70	108.27
29	PK	203	PEB	C2A-C1A-NA	2.82	110.70	108.27
29	G3	201	PEB	OD-C4D-ND	-2.82	121.76	125.93
29	GO	201	PEB	OD-C4D-ND	-2.82	121.76	125.93
29	B4	202	PEB	CMB-C2B-C1B	2.82	129.40	125.06
31	D7	1001	CYC	CAB-C3B-C2B	2.82	132.35	127.53
31	D9	1001	CYC	CAB-C3B-C2B	2.82	132.35	127.53
29	JD	201	PEB	OA-C1A-C2A	-2.82	123.93	126.17
29	FC	203	PEB	C3B-C4B-NB	2.82	114.15	110.05
29	GC	202	PEB	C3B-C4B-NB	2.82	114.15	110.05
29	FE	203	PEB	C3B-C4B-NB	2.82	114.15	110.05
29	GE	202	PEB	C3B-C4B-NB	2.82	114.15	110.05
29	JC	202	PEB	C4B-C3B-C2B	-2.82	103.67	106.78
29	JE	202	PEB	C4B-C3B-C2B	-2.82	103.67	106.78
29	aF	203	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	aI	203	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	LQ	202	PEB	CHC-C4C-C3C	-2.82	125.53	130.34
29	OF	202	PEB	C2A-C1A-NA	2.82	110.70	108.27
29	OI	202	PEB	C2A-C1A-NA	2.82	110.70	108.27
29	G3	201	PEB	OD-C4D-C3D	-2.82	123.08	129.46
29	LG	201	PEB	OD-C4D-C3D	-2.82	123.08	129.46
29	GO	201	PEB	OD-C4D-C3D	-2.82	123.08	129.46
29	MQ	402	PEB	OD-C4D-C3D	-2.82	123.08	129.46
29	HQ	203	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	BQ	203	PEB	OD-C4D-C3D	-2.82	123.08	129.46
31	D1	1003	CYC	CHB-C1B-NB	-2.82	120.01	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F4	202	PEB	CMB-C2B-C1B	2.82	129.40	125.06
29	P2	202	PEB	C1B-C2B-C3B	-2.82	103.28	106.51
31	L7	1001	CYC	CAB-C3B-C4B	2.82	125.83	121.38
31	J9	1001	CYC	CAB-C3B-C4B	2.82	125.83	121.38
29	JA	201	PEB	CHC-C4C-C3C	-2.82	125.53	130.34
29	JN	201	PEB	CHC-C4C-C3C	-2.82	125.53	130.34
29	FC	203	PEB	C4B-C3B-C2B	-2.82	103.67	106.78
29	FE	203	PEB	C4B-C3B-C2B	-2.82	103.67	106.78
29	BD	201	PEB	CMB-C2B-C1B	2.81	129.40	125.06
29	CG	202	PEB	OD-C4D-ND	-2.81	121.76	125.93
29	CQ	202	PEB	OD-C4D-ND	-2.81	121.76	125.93
29	Y7	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	Y9	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	JG	203	PEB	CHC-C4C-C3C	-2.81	125.54	130.34
29	LG	203	PEB	CHC-C4C-C3C	-2.81	125.54	130.34
31	J9	1001	CYC	CAB-C3B-C2B	2.81	132.34	127.53
29	DC	202	PEB	C3B-C4B-NB	2.81	114.14	110.05
29	DE	202	PEB	C3B-C4B-NB	2.81	114.14	110.05
29	H7	1002	PEB	CHC-C1D-ND	2.81	117.22	113.95
29	H9	1002	PEB	CHC-C1D-ND	2.81	117.22	113.95
31	GK	1001	CYC	CHB-C1B-NB	-2.81	120.02	126.06
29	I3	201	PEB	OD-C4D-C3D	-2.81	123.08	129.46
29	IO	201	PEB	OD-C4D-C3D	-2.81	123.08	129.46
29	P7	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	P9	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	RR	203	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	BG	203	PEB	CHC-C4C-C3C	-2.81	125.54	130.34
31	F7	1001	CYC	CAB-C3B-C2B	2.81	132.34	127.53
29	J3	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	T7	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	T9	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	JO	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	DA	202	PEB	OD-C4D-ND	-2.81	121.76	125.93
29	YJ	201	PEB	OD-C4D-ND	-2.81	121.76	125.93
29	YL	201	PEB	OD-C4D-ND	-2.81	121.76	125.93
29	DN	202	PEB	OD-C4D-ND	-2.81	121.76	125.93
31	L7	1001	CYC	CAB-C3B-C2B	2.81	132.34	127.53
29	LA	201	PEB	OA-C1A-C2A	-2.81	123.94	126.17
29	LN	201	PEB	OA-C1A-C2A	-2.81	123.94	126.17
29	H3	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	HO	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	HG	203	PEB	CHC-C4C-C3C	-2.81	125.54	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GG	202	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	GQ	202	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	J7	1002	PEB	CHC-C1D-ND	2.81	117.21	113.95
31	F7	1001	CYC	CAB-C3B-C4B	2.81	125.82	121.38
29	dF	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	dI	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	G4	203	PEB	CBC-CAC-C2C	-2.81	107.82	112.62
29	IG	201	PEB	C4B-C3B-C2B	-2.81	103.67	106.78
29	KG	201	PEB	C4B-C3B-C2B	-2.81	103.67	106.78
29	IQ	201	PEB	C4B-C3B-C2B	-2.81	103.67	106.78
29	KQ	201	PEB	C4B-C3B-C2B	-2.81	103.67	106.78
31	nP	1001	CYC	OC-C1C-C2C	-2.81	123.94	126.17
29	a7	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	a9	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	LJ	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	LL	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	wJ	303	PEB	CAB-C3B-C2B	2.81	133.11	127.88
29	LG	203	PEB	OD-C4D-C3D	-2.81	123.09	129.46
29	HA	201	PEB	CHC-C4C-C3C	-2.81	125.55	130.34
29	HN	201	PEB	CHC-C4C-C3C	-2.81	125.55	130.34
29	l7	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	l9	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	E4	201	PEB	OD-C4D-C3D	-2.81	123.10	129.46
29	R2	203	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	V7	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	V9	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	H4	202	PEB	CMB-C2B-C1B	2.81	129.39	125.06
29	HQ	203	PEB	OD-C4D-C3D	-2.81	123.10	129.46
29	jJ	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	jL	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	JG	202	PEB	CHA-C1B-NB	-2.81	119.06	124.93
29	JQ	202	PEB	CHA-C1B-NB	-2.81	119.06	124.93
29	e2	402	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	K3	201	PEB	OD-C4D-C3D	-2.81	123.10	129.46
29	KO	201	PEB	OD-C4D-C3D	-2.81	123.10	129.46
29	DQ	203	PEB	CHC-C4C-C3C	-2.81	125.55	130.34
29	D3	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	DO	201	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	NR	203	PEB	C1B-C2B-C3B	-2.81	103.28	106.51
29	wJ	302	PEB	C3B-C4B-NB	2.81	114.13	110.05
29	BA	202	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	BN	202	PEB	OD-C4D-ND	-2.81	121.77	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FG	202	PEB	CHA-C1B-NB	-2.81	119.06	124.93
29	FQ	202	PEB	CHA-C1B-NB	-2.81	119.06	124.93
29	T1	202	PEB	C2A-C1A-NA	2.81	110.69	108.27
29	TK	202	PEB	C2A-C1A-NA	2.81	110.69	108.27
29	mF	203	PEB	CMB-C2B-C1B	2.81	129.38	125.06
29	mI	203	PEB	CMB-C2B-C1B	2.81	129.38	125.06
31	J7	1001	CYC	CAB-C3B-C2B	2.81	132.33	127.53
29	DD	201	PEB	OD-C4D-ND	-2.81	121.77	125.93
29	K3	202	PEB	C4B-C3B-C2B	-2.81	103.68	106.78
29	KO	202	PEB	C4B-C3B-C2B	-2.81	103.68	106.78
29	WR	201	PEB	C4B-C3B-C2B	-2.81	103.68	106.78
29	AG	202	PEB	CAB-CBB-CGB	-2.80	107.57	113.60
29	AQ	202	PEB	CAB-CBB-CGB	-2.80	107.57	113.60
29	D4	202	PEB	CMB-C2B-C1B	2.80	129.38	125.06
29	C3	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	CO	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	T2	201	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
31	YP	1000	CYC	C1B-CHB-C4A	2.80	134.93	128.08
29	OR	202	PEB	C3B-C4B-NB	2.80	114.13	110.05
29	D7	1002	PEB	CHC-C1D-ND	2.80	117.20	113.95
29	D9	1002	PEB	CHC-C1D-ND	2.80	117.20	113.95
29	wL	303	PEB	CAB-C3B-C2B	2.80	133.10	127.88
29	a1	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	aK	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	I8	203	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	NJ	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	tJ	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	NL	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	tL	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	YF	203	PEB	C3B-C4B-NB	2.80	114.13	110.05
29	YI	203	PEB	C3B-C4B-NB	2.80	114.13	110.05
29	JD	202	PEB	CMB-C2B-C1B	2.80	129.38	125.06
29	DJ	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	DL	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	BQ	203	PEB	CMB-C2B-C1B	2.80	129.38	125.06
29	BG	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	BQ	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	L8	201	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	GG	202	PEB	CAB-CBB-CGB	-2.80	107.57	113.60
29	GQ	202	PEB	CAB-CBB-CGB	-2.80	107.57	113.60
31	DP	1001	CYC	OC-C1C-C2C	-2.80	123.94	126.17
30	xJ	304	PUB	OA-C1A-NA	-2.80	121.78	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DG	202	PEB	CHA-C1B-NB	-2.80	119.07	124.93
29	DQ	202	PEB	CHA-C1B-NB	-2.80	119.07	124.93
29	XJ	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	XL	201	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	KC	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	KE	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	E3	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	EO	201	PEB	OD-C4D-C3D	-2.80	123.11	129.46
29	F4	201	PEB	OA-C1A-C2A	-2.80	123.95	126.17
29	B8	203	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	aF	202	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	aI	202	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	AG	201	PEB	C4B-C3B-C2B	-2.80	103.68	106.78
29	AQ	201	PEB	C4B-C3B-C2B	-2.80	103.68	106.78
29	R1	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	RK	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	IG	202	PEB	CAB-CBB-CGB	-2.80	107.58	113.60
29	IQ	202	PEB	CAB-CBB-CGB	-2.80	107.58	113.60
31	KP	1001	CYC	C1B-C2B-C3B	-2.80	104.95	107.87
29	gF	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	gI	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	U2	201	PEB	C4B-C3B-C2B	-2.80	103.68	106.78
30	MG	402	PUB	CHB-C1C-NC	-2.80	124.94	128.83
29	ID	201	PEB	OD-C4D-C3D	-2.80	123.12	129.46
29	dF	203	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
29	dI	203	PEB	C1B-C2B-C3B	-2.80	103.29	106.51
31	H7	1001	CYC	CAB-C3B-C2B	2.80	132.32	127.53
31	H9	1001	CYC	CAB-C3B-C2B	2.80	132.32	127.53
29	FA	202	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	FN	202	PEB	OD-C4D-ND	-2.80	121.78	125.93
29	C5	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	C8	203	PEB	C3B-C4B-NB	2.80	114.12	110.05
29	xJ	303	PEB	CAB-C3B-C2B	2.80	133.09	127.88
29	T2	203	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	C5	203	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	C8	203	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	VR	201	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	LG	202	PEB	CHA-C1B-NB	-2.80	119.08	124.93
29	LQ	201	PEB	CHA-C1B-NB	-2.80	119.08	124.93
29	i7	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	i9	203	PEB	C2A-C1A-NA	2.80	110.69	108.27
29	DG	203	PEB	OD-C4D-C3D	-2.80	123.12	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JG	201	PEB	OD-C4D-C3D	-2.80	123.12	129.46
29	JQ	201	PEB	OD-C4D-C3D	-2.80	123.12	129.46
29	F8	201	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	UF	201	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	UI	201	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	LQ	202	PEB	OD-C4D-C3D	-2.80	123.12	129.46
29	LQ	202	PEB	CMB-C2B-C1B	2.80	129.37	125.06
29	LA	202	PEB	OD-C4D-ND	-2.80	121.79	125.93
29	LN	202	PEB	OD-C4D-ND	-2.80	121.79	125.93
29	BA	201	PEB	CHC-C4C-C3C	-2.80	125.57	130.34
29	BN	201	PEB	CHC-C4C-C3C	-2.80	125.57	130.34
29	DA	203	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	gF	202	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	gI	202	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	DN	203	PEB	C1B-C2B-C3B	-2.80	103.30	106.51
29	Y1	202	PEB	C2A-C1A-NA	2.80	110.68	108.27
29	YK	202	PEB	C2A-C1A-NA	2.80	110.68	108.27
29	JQ	203	PEB	OD-C4D-C3D	-2.80	123.13	129.46
29	JG	203	PEB	CMB-C2B-C1B	2.80	129.37	125.06
29	HA	203	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
29	HN	203	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
29	UF	203	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
29	UI	203	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
31	L9	1001	CYC	CAB-C3B-C2B	2.79	132.31	127.53
29	GD	203	PEB	CBC-CAC-C2C	-2.79	107.85	112.62
29	JG	203	PEB	OD-C4D-C3D	-2.79	123.13	129.46
29	f7	201	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	f9	201	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	a1	201	PEB	C2A-C1A-NA	2.79	110.68	108.27
29	aK	201	PEB	C2A-C1A-NA	2.79	110.68	108.27
29	L4	201	PEB	OA-C1A-C2A	-2.79	123.95	126.17
31	XP	1001	CYC	OC-C1C-C2C	-2.79	123.95	126.17
29	IG	202	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	fJ	201	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	fL	201	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	IQ	202	PEB	OD-C4D-ND	-2.79	121.79	125.93
29	LA	201	PEB	CHC-C4C-C3C	-2.79	125.58	130.34
29	LN	201	PEB	CHC-C4C-C3C	-2.79	125.58	130.34
29	dD	401	PEB	OD-C4D-C3D	-2.79	123.14	129.46
29	ZF	202	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
29	ZI	202	PEB	C1B-C2B-C3B	-2.79	103.30	106.51
29	L7	1002	PEB	CHC-C1D-ND	2.79	117.19	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	kF	203	PEB	C1C-CHB-C4B	-2.79	125.47	128.81
29	kI	203	PEB	C1C-CHB-C4B	-2.79	125.47	128.81
29	lJ	201	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	lL	201	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	wL	302	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	EG	202	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	EQ	202	PEB	OD-C4D-ND	-2.79	121.80	125.93
31	UP	1001	CYC	OC-C1C-C2C	-2.79	123.95	126.17
29	HG	202	PEB	CHA-C1B-NB	-2.79	119.10	124.93
29	HQ	202	PEB	CHA-C1B-NB	-2.79	119.10	124.93
29	CG	202	PEB	CAB-CBB-CGB	-2.79	107.60	113.60
29	CQ	202	PEB	CAB-CBB-CGB	-2.79	107.60	113.60
29	cF	202	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	iF	203	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	cI	202	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	iI	203	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	F9	1002	PEB	CHC-C1D-ND	2.79	117.19	113.95
29	JQ	203	PEB	CMB-C2B-C1B	2.79	129.36	125.06
29	CC	202	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	CE	202	PEB	C3B-C4B-NB	2.79	114.11	110.05
29	FD	201	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	G8	203	PEB	C1B-C2B-C3B	-2.79	103.31	106.51
29	SF	202	PEB	C1B-C2B-C3B	-2.79	103.31	106.51
29	SI	202	PEB	C1B-C2B-C3B	-2.79	103.31	106.51
29	m7	203	PEB	C2A-C1A-NA	2.79	110.68	108.27
29	m9	203	PEB	C2A-C1A-NA	2.79	110.68	108.27
29	kF	203	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	kI	203	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	F5	201	PEB	C1B-C2B-C3B	-2.79	103.31	106.51
29	A3	201	PEB	OD-C4D-C3D	-2.79	123.15	129.46
29	AO	201	PEB	OD-C4D-C3D	-2.79	123.15	129.46
31	1P	1002	CYC	C1B-CHB-C4A	2.79	134.89	128.08
29	EC	202	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	EE	202	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	nJ	201	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	nL	201	PEB	OD-C4D-ND	-2.79	121.80	125.93
29	I4	201	PEB	OD-C4D-C3D	-2.79	123.15	129.46
29	K4	203	PEB	CBC-CAC-C2C	-2.79	107.87	112.62
29	A3	202	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	AO	202	PEB	C3B-C4B-NB	2.79	114.10	110.05
29	CD	203	PEB	CBC-CAC-C2C	-2.79	107.87	112.62
29	B5	201	PEB	C1B-C2B-C3B	-2.79	103.31	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F7	1002	PEB	CHC-C1D-ND	2.79	117.18	113.95
29	dJ	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	dL	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	FQ	203	PEB	CMB-C2B-C1B	2.78	129.35	125.06
29	F5	203	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	FA	203	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	PF	202	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	PI	202	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	FN	203	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	ED	202	PEB	CBC-CAC-C2C	-2.78	107.87	112.62
29	k1	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	kK	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	vJ	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	vL	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	VF	202	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	VI	202	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	MD	201	PEB	OD-C4D-C3D	-2.78	123.15	129.46
29	DD	202	PEB	CMB-C2B-C1B	2.78	129.35	125.06
29	BA	203	PEB	CHC-C4C-C3C	-2.78	125.59	130.34
29	BN	203	PEB	CHC-C4C-C3C	-2.78	125.59	130.34
29	EG	202	PEB	CAB-CBB-CGB	-2.78	107.61	113.60
29	EQ	202	PEB	CAB-CBB-CGB	-2.78	107.61	113.60
29	e7	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	e9	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	Q7	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	Q9	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
31	EP	1001	CYC	C2B-C1B-NB	2.78	111.06	106.99
29	xL	303	PEB	CAB-C3B-C2B	2.78	133.06	127.88
29	OR	202	PEB	CHA-C1B-NB	-2.78	119.11	124.93
29	JJ	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	JL	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	BG	202	PEB	CHA-C1B-NB	-2.78	119.11	124.93
29	BQ	202	PEB	CHA-C1B-NB	-2.78	119.11	124.93
30	MQ	404	PUB	CHB-C1C-NC	-2.78	124.97	128.83
29	R1	201	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	RK	201	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	H8	203	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	G5	201	PEB	C3B-C4B-NB	2.78	114.09	110.05
29	N2	201	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
29	R2	201	PEB	C1B-C2B-C3B	-2.78	103.31	106.51
31	uP	1001	CYC	OC-C1C-C2C	-2.78	123.96	126.17
29	T7	203	PEB	C2A-C1A-NA	2.78	110.67	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T9	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
31	GP	1001	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
29	jF	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	jI	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
31	IP	1001	CYC	OC-C1C-C2C	-2.78	123.96	126.17
29	g7	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	g9	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	DO	202	PEB	C3B-C4B-NB	2.78	114.09	110.05
30	xL	304	PUB	OA-C1A-NA	-2.78	121.81	125.93
29	YF	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	YI	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	KG	202	PEB	CAB-CBB-CGB	-2.78	107.62	113.60
29	KQ	202	PEB	CAB-CBB-CGB	-2.78	107.62	113.60
29	KD	201	PEB	OD-C4D-C3D	-2.78	123.17	129.46
29	X2	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	XR	203	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	D4	201	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	AG	202	PEB	OD-C4D-ND	-2.78	121.81	125.93
29	AQ	202	PEB	OD-C4D-ND	-2.78	121.81	125.93
31	iP	1001	CYC	C2B-C1B-NB	2.78	111.05	106.99
29	BJ	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	BL	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	a7	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	a9	203	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	LA	203	PEB	CHC-C4C-C3C	-2.78	125.60	130.34
29	LN	203	PEB	CHC-C4C-C3C	-2.78	125.60	130.34
29	TF	201	PEB	C3B-C4B-NB	2.78	114.09	110.05
29	L5	203	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	eF	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	eI	202	PEB	C1B-C2B-C3B	-2.78	103.32	106.51
29	V1	201	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	VK	201	PEB	C2A-C1A-NA	2.78	110.67	108.27
29	RJ	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	RL	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	GD	201	PEB	OD-C4D-C3D	-2.78	123.17	129.46
29	DA	203	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	HD	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	TJ	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	rJ	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	TL	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	rL	201	PEB	OD-C4D-ND	-2.78	121.82	125.93
29	DN	203	PEB	OD-C4D-ND	-2.78	121.82	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	F8	203	PEB	C1B-C2B-C3B	-2.77	103.32	106.51
29	IF	202	PEB	C1B-C2B-C3B	-2.77	103.32	106.51
29	II	202	PEB	C1B-C2B-C3B	-2.77	103.32	106.51
31	hP	1001	CYC	OC-C1C-C2C	-2.77	123.97	126.17
29	pJ	201	PEB	OD-C4D-ND	-2.77	121.82	125.93
29	pL	201	PEB	OD-C4D-ND	-2.77	121.82	125.93
29	RF	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	RI	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	FD	202	PEB	CMB-C2B-C1B	2.77	129.34	125.06
31	EP	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
29	LA	203	PEB	C1B-C2B-C3B	-2.77	103.32	106.51
29	LN	203	PEB	C1B-C2B-C3B	-2.77	103.32	106.51
30	MQ	404	PUB	CBA-CAA-C3A	-2.77	108.77	112.98
31	pP	1001	CYC	C2B-C1B-NB	2.77	111.05	106.99
29	TF	202	PEB	C1C-CHB-C4B	-2.77	125.50	128.81
29	TI	202	PEB	C1C-CHB-C4B	-2.77	125.50	128.81
29	F8	201	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	FJ	201	PEB	OD-C4D-ND	-2.77	121.82	125.93
29	FL	201	PEB	OD-C4D-ND	-2.77	121.82	125.93
30	A7	302	PUB	OA-C1A-NA	-2.77	121.82	125.93
30	A9	302	PUB	OA-C1A-NA	-2.77	121.82	125.93
30	AM	305	PUB	OD-C4D-ND	-2.77	121.82	125.93
29	MD	203	PEB	CBC-CAC-C2C	-2.77	107.89	112.62
31	CP	1001	CYC	C2B-C1B-NB	2.77	111.05	106.99
29	B8	201	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	Q2	201	PEB	C4B-C3B-C2B	-2.77	103.72	106.78
29	P1	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	PK	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	xJ	301	PEB	CMB-C2B-C1B	2.77	129.33	125.06
29	L8	203	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	QF	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	mF	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	QI	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	mI	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	KG	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	KQ	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	G4	201	PEB	OD-C4D-C3D	-2.77	123.18	129.46
29	C4	203	PEB	CBC-CAC-C2C	-2.77	107.89	112.62
29	TF	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	TI	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
31	IP	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
29	H4	201	PEB	OD-C4D-ND	-2.77	121.83	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	KP	1001	CYC	C2B-C1B-NB	2.77	111.04	106.99
29	JA	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	JN	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	DQ	203	PEB	OD-C4D-C3D	-2.77	123.19	129.46
29	iF	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	iI	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	XR	201	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
31	AP	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
29	ID	203	PEB	CBC-CAC-C2C	-2.77	107.89	112.62
29	GG	201	PEB	C4B-C3B-C2B	-2.77	103.72	106.78
29	GQ	201	PEB	C4B-C3B-C2B	-2.77	103.72	106.78
29	C4	201	PEB	OD-C4D-C3D	-2.77	123.19	129.46
29	PF	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	mF	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	PI	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	mI	203	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	FA	201	PEB	CHC-C4C-C3C	-2.77	125.61	130.34
29	FN	201	PEB	CHC-C4C-C3C	-2.77	125.61	130.34
29	KD	203	PEB	CBC-CAC-C2C	-2.77	107.89	112.62
29	MG	404	PEB	CMA-C2A-C1A	-2.77	106.44	112.40
29	HF	1002	PEB	CAA-C3A-C2A	-2.77	107.34	114.26
29	HI	1002	PEB	CAA-C3A-C2A	-2.77	107.34	114.26
29	BD	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	C3	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	CO	202	PEB	C3B-C4B-NB	2.77	114.08	110.05
31	OP	1001	CYC	OC-C1C-C2C	-2.77	123.97	126.17
29	NF	1002	PEB	CAA-C3A-C2A	-2.77	107.34	114.26
29	NI	1002	PEB	CAA-C3A-C2A	-2.77	107.34	114.26
29	G8	201	PEB	C3B-C4B-NB	2.77	114.08	110.05
29	FG	203	PEB	CMB-C2B-C1B	2.77	129.33	125.06
29	PF	203	PEB	C1C-CHB-C4B	-2.77	125.50	128.81
29	PI	203	PEB	C1C-CHB-C4B	-2.77	125.50	128.81
31	tP	1001	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
29	HA	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	ZJ	201	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	ZL	201	PEB	OD-C4D-ND	-2.77	121.83	125.93
29	HN	202	PEB	OD-C4D-ND	-2.77	121.83	125.93
30	wJ	304	PUB	OA-C1A-NA	-2.77	121.83	125.93
29	i1	201	PEB	C2A-C1A-NA	2.77	110.66	108.27
29	R7	203	PEB	C2A-C1A-NA	2.77	110.66	108.27
29	c7	203	PEB	C2A-C1A-NA	2.77	110.66	108.27
29	R9	203	PEB	C2A-C1A-NA	2.77	110.66	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	c9	203	PEB	C2A-C1A-NA	2.77	110.66	108.27
29	iK	201	PEB	C2A-C1A-NA	2.77	110.66	108.27
29	aF	203	PEB	C3B-C4B-NB	2.77	114.07	110.05
29	aI	203	PEB	C3B-C4B-NB	2.77	114.07	110.05
29	hF	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	hI	202	PEB	C1B-C2B-C3B	-2.77	103.33	106.51
29	M4	203	PEB	C3B-C4B-NB	2.76	114.07	110.05
29	MR	202	PEB	C3B-C4B-NB	2.76	114.07	110.05
29	m1	201	PEB	C2A-C1A-NA	2.76	110.66	108.27
29	mK	201	PEB	C2A-C1A-NA	2.76	110.66	108.27
29	eF	203	PEB	C3B-C4B-NB	2.76	114.07	110.05
29	eI	203	PEB	C3B-C4B-NB	2.76	114.07	110.05
29	HG	202	PEB	CAB-CBB-CGB	-2.76	107.66	113.60
29	HQ	202	PEB	CAB-CBB-CGB	-2.76	107.66	113.60
29	kF	202	PEB	C1B-C2B-C3B	-2.76	103.33	106.51
29	kI	202	PEB	C1B-C2B-C3B	-2.76	103.33	106.51
31	fP	1001	CYC	OC-C1C-C2C	-2.76	123.98	126.17
29	Y7	203	PEB	C2A-C1A-NA	2.76	110.66	108.27
29	Y9	203	PEB	C2A-C1A-NA	2.76	110.66	108.27
29	VF	203	PEB	C3B-C4B-NB	2.76	114.07	110.05
29	VI	203	PEB	C3B-C4B-NB	2.76	114.07	110.05
31	lP	1001	CYC	C2B-C1B-NB	2.76	111.03	106.99
29	gF	203	PEB	C1C-CHB-C4B	-2.76	125.51	128.81
29	gI	203	PEB	C1C-CHB-C4B	-2.76	125.51	128.81
31	pP	1001	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
29	DG	202	PEB	CAB-CBB-CGB	-2.76	107.66	113.60
29	DQ	202	PEB	CAB-CBB-CGB	-2.76	107.66	113.60
29	RR	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	FA	203	PEB	CHC-C4C-C3C	-2.76	125.63	130.34
29	FN	203	PEB	CHC-C4C-C3C	-2.76	125.63	130.34
29	K4	201	PEB	OD-C4D-C3D	-2.76	123.20	129.46
29	J5	202	PEB	OD-C4D-C3D	-2.76	123.20	129.46
29	J8	202	PEB	OD-C4D-C3D	-2.76	123.20	129.46
29	TR	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	Z1	203	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	hJ	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	ZK	203	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	hL	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
31	GF	1001	CYC	C1A-C2A-C3A	-2.76	103.73	106.78
31	GI	1001	CYC	C1A-C2A-C3A	-2.76	103.73	106.78
29	V2	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	G8	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WF	202	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	WI	202	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	F4	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	J4	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	bJ	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	bL	201	PEB	OD-C4D-ND	-2.76	121.84	125.93
29	G5	203	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	eF	203	PEB	C1C-CHB-C4B	-2.76	125.51	128.81
29	eI	203	PEB	C1C-CHB-C4B	-2.76	125.51	128.81
29	OF	202	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	OI	202	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
31	UP	1001	CYC	C4A-C3A-C2A	-2.76	103.34	106.51
29	HD	202	PEB	OA-C1A-C2A	-2.76	123.98	126.17
29	NO	201	PEB	CAA-C3A-C2A	-2.76	107.37	114.26
29	E3	202	PEB	C3B-C4B-NB	2.76	114.06	110.05
29	EO	202	PEB	C3B-C4B-NB	2.76	114.06	110.05
29	DA	203	PEB	CHC-C4C-C3C	-2.76	125.63	130.34
29	DN	203	PEB	CHC-C4C-C3C	-2.76	125.63	130.34
29	xL	301	PEB	CMB-C2B-C1B	2.76	129.31	125.06
29	E4	203	PEB	CBC-CAC-C2C	-2.76	107.91	112.62
29	BB	301	PEB	C2A-C1A-NA	2.76	110.65	108.27
29	BM	301	PEB	C2A-C1A-NA	2.76	110.65	108.27
31	iP	1001	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
29	U1	203	PEB	OD-C4D-ND	-2.76	121.85	125.93
29	L4	201	PEB	OD-C4D-ND	-2.76	121.85	125.93
29	UK	203	PEB	OD-C4D-ND	-2.76	121.85	125.93
29	I3	202	PEB	C3B-C4B-NB	2.76	114.06	110.05
29	xL	302	PEB	C3B-C4B-NB	2.76	114.06	110.05
29	IO	202	PEB	C3B-C4B-NB	2.76	114.06	110.05
31	AP	1001	CYC	C2B-C1B-NB	2.76	111.02	106.99
31	KI	1001	CYC	C1A-C2A-C3A	-2.76	103.73	106.78
29	NR	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
31	CP	1001	CYC	C1B-C2B-C3B	-2.76	105.00	107.87
31	NP	1001	CYC	C1B-C2B-C3B	-2.76	105.00	107.87
31	eP	1001	CYC	C1B-C2B-C3B	-2.76	105.00	107.87
31	gP	1001	CYC	C1B-C2B-C3B	-2.76	105.00	107.87
29	B3	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	BO	201	PEB	C1B-C2B-C3B	-2.76	103.34	106.51
29	DF	1002	PEB	CAA-C3A-C2A	-2.76	107.38	114.26
29	DI	1002	PEB	CAA-C3A-C2A	-2.76	107.38	114.26
31	mP	1001	CYC	C1B-C2B-C3B	-2.76	105.00	107.87
29	mF	203	PEB	C1C-CHB-C4B	-2.75	125.52	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mI	203	PEB	C1C-CHB-C4B	-2.75	125.52	128.81
29	VJ	201	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	VL	201	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	fF	202	PEB	C1B-C2B-C3B	-2.75	103.34	106.51
29	fI	202	PEB	C1B-C2B-C3B	-2.75	103.34	106.51
29	A1	301	PEB	OD-C4D-C3D	-2.75	123.22	129.46
29	AK	301	PEB	OD-C4D-C3D	-2.75	123.22	129.46
31	BP	1001	CYC	OC-C1C-C2C	-2.75	123.98	126.17
31	1P	1001	CYC	OC-C1C-C2C	-2.75	123.98	126.17
29	B8	201	PEB	C3B-C4B-NB	2.75	114.06	110.05
31	GP	1001	CYC	C2B-C1B-NB	2.75	111.02	106.99
29	BG	202	PEB	CAB-CBB-CGB	-2.75	107.68	113.60
29	BQ	202	PEB	CAB-CBB-CGB	-2.75	107.68	113.60
29	JA	203	PEB	CHC-C4C-C3C	-2.75	125.64	130.34
29	JN	203	PEB	CHC-C4C-C3C	-2.75	125.64	130.34
29	CD	201	PEB	OD-C4D-C3D	-2.75	123.22	129.46
29	H4	202	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	LA	203	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	LN	203	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	LF	1002	PEB	CAA-C3A-C2A	-2.75	107.38	114.26
29	LI	1002	PEB	CAA-C3A-C2A	-2.75	107.38	114.26
29	HA	203	PEB	CHC-C4C-C3C	-2.75	125.64	130.34
29	HN	203	PEB	CHC-C4C-C3C	-2.75	125.64	130.34
29	MQ	406	PEB	CMA-C2A-C1A	-2.75	106.47	112.40
29	BA	203	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	BN	203	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	JF	1002	PEB	CAA-C3A-C2A	-2.75	107.38	114.26
29	JI	1002	PEB	CAA-C3A-C2A	-2.75	107.38	114.26
31	rP	1001	CYC	C2B-C1B-NB	2.75	111.02	106.99
29	FG	202	PEB	CAB-CBB-CGB	-2.75	107.68	113.60
29	FQ	202	PEB	CAB-CBB-CGB	-2.75	107.68	113.60
31	cP	1001	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
29	A7	305	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	A9	305	PEB	OD-C4D-ND	-2.75	121.85	125.93
29	G5	201	PEB	C1B-C2B-C3B	-2.75	103.35	106.51
31	qP	1001	CYC	OC-C1C-C2C	-2.75	123.98	126.17
29	H5	203	PEB	C1B-C2B-C3B	-2.75	103.35	106.51
29	DQ	203	PEB	CMB-C2B-C1B	2.75	129.30	125.06
31	PP	1001	CYC	C2B-C1B-NB	2.75	111.01	106.99
29	HA	203	PEB	OD-C4D-ND	-2.75	121.86	125.93
29	HN	203	PEB	OD-C4D-ND	-2.75	121.86	125.93
29	F5	201	PEB	C3B-C4B-NB	2.75	114.05	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	SP	1001	CYC	C4A-C3A-C2A	-2.75	103.35	106.51
31	TP	1001	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
31	sP	1001	CYC	OC-C1C-C2C	-2.75	123.99	126.17
29	M4	201	PEB	OD-C4D-C3D	-2.75	123.23	129.46
29	LG	202	PEB	CAB-CBB-CGB	-2.75	107.69	113.60
29	LQ	201	PEB	CAB-CBB-CGB	-2.75	107.69	113.60
31	RP	1001	CYC	C2B-C1B-NB	2.75	111.01	106.99
31	vP	1001	CYC	C2B-C1B-NB	2.75	111.01	106.99
29	M3	201	PEB	CAA-C3A-C2A	-2.75	107.39	114.26
29	MO	201	PEB	CAA-C3A-C2A	-2.75	107.39	114.26
29	m1	202	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	mK	202	PEB	C2A-C1A-NA	2.75	110.64	108.27
31	oP	1001	CYC	C4A-C3A-C2A	-2.75	103.35	106.51
29	JD	201	PEB	OD-C4D-ND	-2.75	121.86	125.93
29	CA	201	PEB	OD-C4D-C3D	-2.75	123.24	129.46
29	CN	201	PEB	OD-C4D-C3D	-2.75	123.24	129.46
29	T1	201	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	c1	203	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	g1	201	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	g1	203	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	TK	201	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	cK	203	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	gK	201	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	gK	203	PEB	C2A-C1A-NA	2.75	110.64	108.27
29	G3	202	PEB	C3B-C4B-NB	2.75	114.04	110.05
29	GO	202	PEB	C3B-C4B-NB	2.75	114.04	110.05
31	JP	1001	CYC	C2B-C1B-NB	2.75	111.01	106.99
31	mP	1001	CYC	C2B-C1B-NB	2.75	111.01	106.99
31	kP	1001	CYC	OC-C1C-C2C	-2.75	123.99	126.17
31	RP	1001	CYC	C1B-C2B-C3B	-2.75	105.01	107.87
29	J4	202	PEB	OD-C4D-ND	-2.75	121.86	125.93
29	dD	401	PEB	OD-C4D-ND	-2.75	121.86	125.93
30	wL	304	PUB	OA-C1A-NA	-2.75	121.86	125.93
29	GD	203	PEB	OD-C4D-ND	-2.74	121.86	125.93
29	V1	203	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	c1	201	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	e1	201	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	e1	203	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	VK	203	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	cK	201	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	eK	201	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	eK	203	PEB	C2A-C1A-NA	2.74	110.64	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LD	201	PEB	OA-C1A-C2A	-2.74	123.99	126.17
29	bF	202	PEB	C1B-C2B-C3B	-2.74	103.36	106.51
29	bI	202	PEB	C1B-C2B-C3B	-2.74	103.36	106.51
31	FP	1001	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
29	FF	1002	PEB	CAA-C3A-C2A	-2.74	107.40	114.26
29	FI	1002	PEB	CAA-C3A-C2A	-2.74	107.40	114.26
29	g1	203	PEB	C3B-C4B-NB	2.74	114.04	110.05
29	gK	203	PEB	C3B-C4B-NB	2.74	114.04	110.05
29	JG	202	PEB	CAB-CBB-CGB	-2.74	107.70	113.60
29	JQ	202	PEB	CAB-CBB-CGB	-2.74	107.70	113.60
29	AA	201	PEB	OD-C4D-C3D	-2.74	123.24	129.46
29	AN	201	PEB	OD-C4D-C3D	-2.74	123.24	129.46
30	MG	402	PUB	CBA-CAA-C3A	-2.74	108.82	112.98
29	N3	201	PEB	CAA-C3A-C2A	-2.74	107.41	114.26
29	K4	201	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	iF	203	PEB	C1C-CHB-C4B	-2.74	125.53	128.81
29	iI	203	PEB	C1C-CHB-C4B	-2.74	125.53	128.81
29	I4	202	PEB	C2A-C1A-NA	2.74	110.64	108.27
29	B4	202	PEB	OD-C4D-ND	-2.74	121.87	125.93
31	PP	1001	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
31	MP	1001	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
29	xJ	302	PEB	C3B-C4B-NB	2.74	114.04	110.05
31	gP	1001	CYC	C2B-C1B-NB	2.74	111.00	106.99
31	tP	1001	CYC	C2B-C1B-NB	2.74	111.00	106.99
31	KF	1001	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
29	PJ	201	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	PL	201	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	GA	201	PEB	OD-C4D-C3D	-2.74	123.25	129.46
29	GN	201	PEB	OD-C4D-C3D	-2.74	123.25	129.46
31	cP	1001	CYC	C2B-C1B-NB	2.74	111.00	106.99
29	J5	201	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	J8	201	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	JA	203	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	JN	203	PEB	OD-C4D-ND	-2.74	121.87	125.93
31	rP	1001	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
29	h1	202	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	hK	202	PEB	OD-C4D-ND	-2.74	121.87	125.93
31	uP	1001	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
29	CD	201	PEB	OD-C4D-ND	-2.74	121.87	125.93
29	H3	202	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	K3	202	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	HO	202	PEB	C3B-C4B-NB	2.74	114.03	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KO	202	PEB	C3B-C4B-NB	2.74	114.03	110.05
31	NP	1001	CYC	C2B-C1B-NB	2.74	110.99	106.99
29	O1	202	PEB	OD-C4D-ND	-2.74	121.88	125.93
29	OK	202	PEB	OD-C4D-ND	-2.74	121.88	125.93
29	VF	203	PEB	C1C-CHB-C4B	-2.74	125.54	128.81
29	VI	203	PEB	C1C-CHB-C4B	-2.74	125.54	128.81
31	OP	1001	CYC	C4A-C3A-C2A	-2.74	103.37	106.51
29	V1	203	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	VK	203	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	DO	202	PEB	CBC-CAC-C2C	-2.74	107.95	112.62
29	HD	202	PEB	OD-C4D-ND	-2.74	121.88	125.93
31	vP	1001	CYC	C1B-C2B-C3B	-2.74	105.02	107.87
31	QP	1001	CYC	OC-C1C-C2C	-2.74	124.00	126.17
31	wP	1001	CYC	OC-C1C-C2C	-2.74	124.00	126.17
29	I3	203	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	IO	203	PEB	C3B-C4B-NB	2.74	114.03	110.05
29	k7	203	PEB	C2A-C1A-NA	2.74	110.63	108.27
29	k9	203	PEB	C2A-C1A-NA	2.74	110.63	108.27
29	IA	201	PEB	OD-C4D-C3D	-2.74	123.26	129.46
29	IN	201	PEB	OD-C4D-C3D	-2.74	123.26	129.46
29	aF	203	PEB	C1C-CHB-C4B	-2.73	125.54	128.81
29	cF	202	PEB	C1C-CHB-C4B	-2.73	125.54	128.81
29	aI	203	PEB	C1C-CHB-C4B	-2.73	125.54	128.81
29	cI	202	PEB	C1C-CHB-C4B	-2.73	125.54	128.81
29	R1	203	PEB	C3B-C4B-NB	2.73	114.03	110.05
29	RK	203	PEB	C3B-C4B-NB	2.73	114.03	110.05
29	j1	202	PEB	OD-C4D-ND	-2.73	121.88	125.93
29	jK	202	PEB	OD-C4D-ND	-2.73	121.88	125.93
31	SP	1001	CYC	OC-C1C-C2C	-2.73	124.00	126.17
29	i1	203	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	V7	203	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	V9	203	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	ID	202	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	iK	203	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	J4	201	PEB	CAB-CBB-CGB	-2.73	107.72	113.60
29	H8	201	PEB	C3B-C4B-NB	2.73	114.03	110.05
31	BP	1001	CYC	C4A-C3A-C2A	-2.73	103.37	106.51
29	A1	302	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	AK	302	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	f1	202	PEB	OD-C4D-ND	-2.73	121.88	125.93
29	fK	202	PEB	OD-C4D-ND	-2.73	121.88	125.93
29	YF	203	PEB	C1C-CHB-C4B	-2.73	125.55	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YI	203	PEB	C1C-CHB-C4B	-2.73	125.55	128.81
29	OF	203	PEB	C1B-C2B-C3B	-2.73	103.37	106.51
29	OI	203	PEB	C1B-C2B-C3B	-2.73	103.37	106.51
29	Y1	201	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	HA	202	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	YK	201	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	HN	202	PEB	C2A-C1A-NA	2.73	110.63	108.27
29	mB	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	mM	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	e1	203	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	K5	201	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	K8	201	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	eK	203	PEB	C3B-C4B-NB	2.73	114.02	110.05
31	IF	1001	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
31	II	1001	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
29	RB	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	RM	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	KA	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	KN	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	B4	201	PEB	OD-C4D-ND	-2.73	121.89	125.93
31	jP	1001	CYC	OC-C1C-C2C	-2.73	124.00	126.17
29	NB	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
29	NM	201	PEB	OD-C4D-C3D	-2.73	123.27	129.46
31	wP	1001	CYC	C4A-C3A-C2A	-2.73	103.37	106.51
30	MQ	404	PUB	CBC-CAC-C2C	-2.73	105.04	112.63
29	L4	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	JD	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	wJ	301	PEB	CMB-C2B-C1B	2.73	129.27	125.06
31	HP	1001	CYC	OC-C1C-C2C	-2.73	124.00	126.17
29	Y1	202	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	m1	202	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	YK	202	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	mK	202	PEB	C3B-C4B-NB	2.73	114.02	110.05
30	xL	305	PUB	CHA-C1B-C2B	-2.73	125.68	130.34
29	MR	201	PEB	O1C-CGC-CBC	-2.73	114.31	123.08
29	d1	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	dK	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	H5	201	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	P7	203	PEB	C2A-C1A-NA	2.73	110.62	108.27
29	P9	203	PEB	C2A-C1A-NA	2.73	110.62	108.27
29	c1	203	PEB	C3B-C4B-NB	2.73	114.02	110.05
29	cK	203	PEB	C3B-C4B-NB	2.73	114.02	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	MF	1001	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
31	MI	1001	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
29	RF	202	PEB	C1C-CHB-C4B	-2.73	125.55	128.81
29	RI	202	PEB	C1C-CHB-C4B	-2.73	125.55	128.81
30	MA	403	PUB	CAC-C2C-C1C	2.73	129.83	125.01
29	P1	201	PEB	C2A-C1A-NA	2.73	110.62	108.27
29	PK	201	PEB	C2A-C1A-NA	2.73	110.62	108.27
31	IP	1001	CYC	C4A-C3A-C2A	-2.73	103.38	106.51
31	jP	1001	CYC	C4A-C3A-C2A	-2.73	103.38	106.51
29	TB	201	PEB	OD-C4D-C3D	-2.73	123.28	129.46
29	TM	201	PEB	OD-C4D-C3D	-2.73	123.28	129.46
29	ID	201	PEB	OD-C4D-ND	-2.73	121.89	125.93
31	TP	1001	CYC	C2B-C1B-NB	2.73	110.98	106.99
30	MG	402	PUB	CBC-CAC-C2C	-2.73	105.06	112.63
29	b1	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	bK	202	PEB	OD-C4D-ND	-2.73	121.89	125.93
29	DB	201	PEB	OD-C4D-C3D	-2.72	123.29	129.46
29	DM	201	PEB	OD-C4D-C3D	-2.72	123.29	129.46
29	F4	202	PEB	OD-C4D-ND	-2.72	121.89	125.93
29	FD	202	PEB	OD-C4D-ND	-2.72	121.89	125.93
30	AB	305	PUB	OD-C4D-ND	-2.72	121.89	125.93
30	wJ	305	PUB	CHA-C1B-C2B	-2.72	125.69	130.34
31	DP	1001	CYC	C4A-C3A-C2A	-2.72	103.38	106.51
30	xJ	305	PUB	CAC-CBC-CGC	-2.72	107.74	113.60
29	E4	201	PEB	OD-C4D-ND	-2.72	121.89	125.93
29	AB	301	PEB	OD-C4D-C3D	-2.72	123.29	129.46
29	B5	201	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	wL	302	PEB	C1C-CHB-C4B	-2.72	125.56	128.81
29	F4	202	PEB	OA-C1A-C2A	-2.72	124.01	126.17
31	oP	1001	CYC	OC-C1C-C2C	-2.72	124.01	126.17
29	AM	301	PEB	OD-C4D-C3D	-2.72	123.29	129.46
29	S1	202	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	LD	202	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	SK	202	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	U1	202	PEB	CBC-CAC-C2C	-2.72	107.97	112.62
29	UK	202	PEB	CBC-CAC-C2C	-2.72	107.97	112.62
29	a1	203	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	k1	203	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	aK	203	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	kK	203	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	FA	202	PEB	C2A-C1A-NA	2.72	110.62	108.27
29	FN	202	PEB	C2A-C1A-NA	2.72	110.62	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B3	202	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	F3	202	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	BO	202	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	FO	202	PEB	C3B-C4B-NB	2.72	114.01	110.05
29	XB	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	XM	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	KD	201	PEB	OD-C4D-ND	-2.72	121.90	125.93
30	MN	403	PUB	OA-C1A-NA	-2.72	121.90	125.93
29	gB	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	gM	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
30	AM	304	PUB	CBA-CAA-C3A	-2.72	108.85	112.98
31	fP	1001	CYC	C4A-C3A-C2A	-2.72	103.39	106.51
31	qP	1001	CYC	C4A-C3A-C2A	-2.72	103.39	106.51
29	wJ	302	PEB	C1C-CHB-C4B	-2.72	125.56	128.81
30	wL	305	PUB	CHA-C1B-C2B	-2.72	125.70	130.34
30	AM	305	PUB	CMD-C2D-C3D	2.72	131.85	127.77
29	VB	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	VM	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	OR	201	PEB	O1C-CGC-CBC	-2.72	114.34	123.08
31	hP	1001	CYC	C4A-C3A-C2A	-2.72	103.39	106.51
29	EA	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	EN	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	JD	201	PEB	CAB-CBB-CGB	-2.72	107.75	113.60
29	FA	203	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	BD	201	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	FN	203	PEB	OD-C4D-ND	-2.72	121.90	125.93
29	LB	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	LM	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
31	XP	1001	CYC	C4A-C3A-C2A	-2.72	103.39	106.51
29	W2	201	PEB	O1C-CGC-CBC	-2.72	114.35	123.08
29	W1	201	PEB	CBC-CAC-C2C	-2.72	107.98	112.62
29	WK	201	PEB	CBC-CAC-C2C	-2.72	107.98	112.62
29	J3	202	PEB	C3B-C4B-NB	2.72	114.00	110.05
29	JO	202	PEB	C3B-C4B-NB	2.72	114.00	110.05
30	xJ	305	PUB	CHA-C1B-C2B	-2.72	125.70	130.34
29	FB	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	FM	201	PEB	OD-C4D-C3D	-2.72	123.30	129.46
29	Q1	202	PEB	OD-C4D-ND	-2.72	121.91	125.93
29	QK	202	PEB	OD-C4D-ND	-2.72	121.91	125.93
29	FD	201	PEB	OA-C1A-C2A	-2.72	124.01	126.17
29	W1	202	PEB	OD-C4D-ND	-2.72	121.91	125.93
29	WK	202	PEB	OD-C4D-ND	-2.72	121.91	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JB	201	PEB	OD-C4D-C3D	-2.72	123.31	129.46
29	cB	201	PEB	OD-C4D-C3D	-2.72	123.31	129.46
29	JM	201	PEB	OD-C4D-C3D	-2.72	123.31	129.46
29	cM	201	PEB	OD-C4D-C3D	-2.72	123.31	129.46
29	I5	201	PEB	C3B-C4B-NB	2.72	114.00	110.05
29	I8	201	PEB	C3B-C4B-NB	2.72	114.00	110.05
31	JP	1001	CYC	C1B-C2B-C3B	-2.72	105.04	107.87
29	f7	201	PEB	CHA-C1B-NB	-2.72	119.25	124.93
29	f9	201	PEB	CHA-C1B-NB	-2.72	119.25	124.93
31	F1	1001	CYC	CAC-C3C-C2C	-2.72	107.47	114.26
31	FK	1001	CYC	CAC-C3C-C2C	-2.72	107.47	114.26
29	O2	201	PEB	O1C-CGC-CBC	-2.72	114.36	123.08
29	S1	201	PEB	CBC-CAC-C2C	-2.71	107.99	112.62
29	SK	201	PEB	CBC-CAC-C2C	-2.71	107.99	112.62
29	SF	201	PEB	OD-C4D-C3D	-2.71	123.31	129.46
29	SI	201	PEB	OD-C4D-C3D	-2.71	123.31	129.46
29	S2	201	PEB	CMB-C2B-C1B	2.71	129.24	125.06
30	wL	305	PUB	CAC-CBC-CGC	-2.71	107.76	113.60
31	EF	1001	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
31	EI	1001	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
29	AF	304	PEB	C1C-CHB-C4B	-2.71	125.57	128.81
29	AI	304	PEB	C1C-CHB-C4B	-2.71	125.57	128.81
29	k1	201	PEB	C2A-C1A-NA	2.71	110.61	108.27
29	kK	201	PEB	C2A-C1A-NA	2.71	110.61	108.27
29	Z1	202	PEB	CBC-CAC-C2C	-2.71	107.99	112.62
29	ZK	202	PEB	CBC-CAC-C2C	-2.71	107.99	112.62
29	QR	201	PEB	O1C-CGC-CBC	-2.71	114.36	123.08
29	A8	201	PEB	C3B-C4B-NB	2.71	114.00	110.05
29	ZB	201	PEB	OD-C4D-C3D	-2.71	123.31	129.46
29	ZM	201	PEB	OD-C4D-C3D	-2.71	123.31	129.46
29	M2	201	PEB	O1C-CGC-CBC	-2.71	114.37	123.08
29	I4	201	PEB	OD-C4D-ND	-2.71	121.91	125.93
31	HP	1001	CYC	C4A-C3A-C2A	-2.71	103.39	106.51
29	eB	201	PEB	OD-C4D-C3D	-2.71	123.32	129.46
29	eM	201	PEB	OD-C4D-C3D	-2.71	123.32	129.46
29	UF	202	PEB	OD-C4D-C3D	-2.71	123.32	129.46
29	UI	202	PEB	OD-C4D-C3D	-2.71	123.32	129.46
29	T1	202	PEB	C3B-C4B-NB	2.71	113.99	110.05
29	TK	202	PEB	C3B-C4B-NB	2.71	113.99	110.05
31	nP	1001	CYC	C4A-C3A-C2A	-2.71	103.39	106.51
29	U2	201	PEB	O1C-CGC-CBC	-2.71	114.37	123.08
29	UR	201	PEB	O1C-CGC-CBC	-2.71	114.37	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	K8	201	PEB	CAB-CBB-CGB	-2.71	107.77	113.60
29	C4	201	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	D4	202	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	O1	201	PEB	CBC-CAC-C2C	-2.71	108.00	112.62
29	OK	201	PEB	CBC-CAC-C2C	-2.71	108.00	112.62
31	eP	1001	CYC	C2B-C1B-NB	2.71	110.95	106.99
29	L5	201	PEB	C3B-C4B-NB	2.71	113.99	110.05
29	KD	202	PEB	C2A-C1A-NA	2.71	110.61	108.27
31	YP	1000	CYC	C2C-C1C-NC	2.71	110.61	108.27
29	h7	201	PEB	CHA-C1B-NB	-2.71	119.27	124.93
29	h9	201	PEB	CHA-C1B-NB	-2.71	119.27	124.93
29	E4	203	PEB	OD-C4D-ND	-2.71	121.92	125.93
31	QP	1001	CYC	C4A-C3A-C2A	-2.71	103.40	106.51
29	j1	201	PEB	CBC-CAC-C2C	-2.71	108.00	112.62
29	jK	201	PEB	CBC-CAC-C2C	-2.71	108.00	112.62
29	ID	203	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	LD	201	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	JA	202	PEB	C2A-C1A-NA	2.71	110.61	108.27
29	JN	202	PEB	C2A-C1A-NA	2.71	110.61	108.27
29	Q7	201	PEB	CHA-C1B-NB	-2.71	119.27	124.93
29	Q9	201	PEB	CHA-C1B-NB	-2.71	119.27	124.93
29	WR	201	PEB	O1C-CGC-CBC	-2.71	114.38	123.08
30	AB	304	PUB	CBA-CAA-C3A	-2.71	108.87	112.98
29	TF	201	PEB	CAB-CBB-CGB	-2.71	107.78	113.60
29	PB	201	PEB	OD-C4D-C3D	-2.71	123.33	129.46
29	PM	201	PEB	OD-C4D-C3D	-2.71	123.33	129.46
29	xJ	302	PEB	C1C-CHB-C4B	-2.71	125.58	128.81
29	xL	302	PEB	C1C-CHB-C4B	-2.71	125.58	128.81
30	xL	305	PUB	CAC-CBC-CGC	-2.71	107.78	113.60
30	AB	305	PUB	CMD-C2D-C3D	2.71	131.83	127.77
31	1P	1001	CYC	C2C-C3C-C4C	2.71	105.39	101.34
31	kP	1001	CYC	C4A-C3A-C2A	-2.71	103.40	106.51
29	D4	201	PEB	CAB-CBB-CGB	-2.71	107.78	113.60
29	hF	201	PEB	OD-C4D-C3D	-2.71	123.33	129.46
29	hI	201	PEB	OD-C4D-C3D	-2.71	123.33	129.46
29	l1	202	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	lK	202	PEB	OD-C4D-ND	-2.71	121.92	125.93
29	T1	202	PEB	CHC-C4C-C3C	-2.71	125.72	130.34
29	TK	202	PEB	CHC-C4C-C3C	-2.71	125.72	130.34
29	l1	201	PEB	CBC-CAC-C2C	-2.70	108.00	112.62
29	lK	201	PEB	CBC-CAC-C2C	-2.70	108.00	112.62
29	M4	201	PEB	OD-C4D-ND	-2.70	121.92	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	MJ	201	PEB	CHA-C1B-NB	-2.70	119.28	124.93
29	ML	201	PEB	CHA-C1B-NB	-2.70	119.28	124.93
29	kB	201	PEB	OD-C4D-C3D	-2.70	123.33	129.46
29	kM	201	PEB	OD-C4D-C3D	-2.70	123.33	129.46
29	Q2	201	PEB	O1C-CGC-CBC	-2.70	114.40	123.08
31	1P	1001	CYC	C4A-C3A-C2A	-2.70	103.40	106.51
31	CF	1001	CYC	C1A-C2A-C3A	-2.70	103.79	106.78
31	CI	1001	CYC	C1A-C2A-C3A	-2.70	103.79	106.78
29	H4	201	PEB	OA-C1A-C2A	-2.70	124.02	126.17
29	HD	201	PEB	OA-C1A-C2A	-2.70	124.02	126.17
29	d1	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	f1	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	dK	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	fK	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
31	BP	1001	CYC	C2C-C3C-C4C	2.70	105.39	101.34
29	A5	201	PEB	C3B-C4B-NB	2.70	113.98	110.05
29	C5	201	PEB	C3B-C4B-NB	2.70	113.98	110.05
29	C8	201	PEB	C3B-C4B-NB	2.70	113.98	110.05
29	ED	202	PEB	OD-C4D-ND	-2.70	121.93	125.93
29	FD	202	PEB	OA-C1A-C2A	-2.70	124.03	126.17
30	wJ	305	PUB	CAC-CBC-CGC	-2.70	107.79	113.60
31	N1	1001	CYC	CAC-C3C-C2C	-2.70	107.51	114.26
29	b7	201	PEB	CHA-C1B-NB	-2.70	119.28	124.93
29	b9	201	PEB	CHA-C1B-NB	-2.70	119.28	124.93
29	Q1	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	QK	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
31	hP	1001	CYC	C2C-C3C-C4C	2.70	105.38	101.34
31	kP	1001	CYC	C2C-C3C-C4C	2.70	105.38	101.34
31	L1	1001	CYC	CAC-C3C-C2C	-2.70	107.51	114.26
31	LK	1001	CYC	CAC-C3C-C2C	-2.70	107.51	114.26
29	H4	201	PEB	CAB-CBB-CGB	-2.70	107.79	113.60
29	HB	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	HM	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	L8	201	PEB	C3B-C4B-NB	2.70	113.98	110.05
29	h1	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	hK	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
30	MA	403	PUB	OA-C1A-NA	-2.70	121.93	125.93
29	AC	202	PEB	CMB-C2B-C1B	2.70	129.22	125.06
29	AE	202	PEB	CMB-C2B-C1B	2.70	129.22	125.06
29	ZF	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	ZI	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	TF	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AM	302	PEB	C3B-C4B-NB	2.70	113.98	110.05
29	wL	301	PEB	CMB-C2B-C1B	2.70	129.22	125.06
29	b1	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	bK	201	PEB	CBC-CAC-C2C	-2.70	108.01	112.62
29	bF	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	bI	201	PEB	OD-C4D-C3D	-2.70	123.34	129.46
29	M3	203	PEB	OD-C4D-ND	-2.70	121.93	125.93
29	G4	203	PEB	OD-C4D-ND	-2.70	121.93	125.93
29	MO	203	PEB	OD-C4D-ND	-2.70	121.93	125.93
31	NK	1001	CYC	CAC-C3C-C2C	-2.70	107.52	114.26
29	Z7	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	Z9	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	G4	201	PEB	OD-C4D-ND	-2.70	121.93	125.93
29	QF	201	PEB	OD-C4D-C3D	-2.70	123.35	129.46
29	QI	201	PEB	OD-C4D-C3D	-2.70	123.35	129.46
31	H1	1001	CYC	CAC-C3C-C2C	-2.70	107.52	114.26
31	J1	1001	CYC	CAC-C3C-C2C	-2.70	107.52	114.26
31	JK	1001	CYC	CAC-C3C-C2C	-2.70	107.52	114.26
31	FP	1001	CYC	C2C-C3C-C4C	2.70	105.38	101.34
29	eJ	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	eL	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	F4	201	PEB	CAB-CBB-CGB	-2.70	107.80	113.60
29	D3	202	PEB	CBC-CAC-C2C	-2.70	108.02	112.62
31	DK	1001	CYC	CAC-C3C-C2C	-2.70	107.52	114.26
29	U7	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	U9	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
30	MN	403	PUB	CAC-C2C-C1C	2.70	129.78	125.01
29	KC	203	PEB	CMB-C2B-C1B	2.70	129.22	125.06
29	KE	203	PEB	CMB-C2B-C1B	2.70	129.22	125.06
29	iB	201	PEB	OD-C4D-C3D	-2.70	123.35	129.46
29	iM	201	PEB	OD-C4D-C3D	-2.70	123.35	129.46
29	O7	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	O9	201	PEB	CHA-C1B-NB	-2.70	119.29	124.93
29	K5	201	PEB	CAB-CBB-CGB	-2.70	107.80	113.60
29	DD	201	PEB	CAB-CBB-CGB	-2.70	107.80	113.60
29	HD	201	PEB	CAB-CBB-CGB	-2.70	107.80	113.60
29	W7	201	PEB	CHA-C1B-NB	-2.70	119.30	124.93
29	W9	201	PEB	CHA-C1B-NB	-2.70	119.30	124.93
29	G5	203	PEB	OD-C4D-C3D	-2.70	123.35	129.46
30	MN	403	PUB	CMD-C2D-C3D	2.69	131.81	127.77
29	fF	201	PEB	OD-C4D-C3D	-2.69	123.36	129.46
29	fI	201	PEB	OD-C4D-C3D	-2.69	123.36	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	i1	203	PEB	C3B-C4B-NB	2.69	113.97	110.05
29	iK	203	PEB	C3B-C4B-NB	2.69	113.97	110.05
29	qJ	201	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	qL	201	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	WJ	202	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	WL	202	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	NR	203	PEB	C3B-C4B-NB	2.69	113.97	110.05
29	R1	203	PEB	CHC-C4C-C3C	-2.69	125.74	130.34
29	RK	203	PEB	CHC-C4C-C3C	-2.69	125.74	130.34
29	H4	202	PEB	OA-C1A-C2A	-2.69	124.03	126.17
29	AB	302	PEB	C3B-C4B-NB	2.69	113.97	110.05
31	XP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
31	nP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
29	g1	203	PEB	CHC-C4C-C3C	-2.69	125.75	130.34
29	gK	203	PEB	CHC-C4C-C3C	-2.69	125.75	130.34
31	jP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
29	WF	201	PEB	OD-C4D-C3D	-2.69	123.36	129.46
29	WI	201	PEB	OD-C4D-C3D	-2.69	123.36	129.46
29	SJ	201	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	SL	201	PEB	CHA-C1B-NB	-2.69	119.30	124.93
29	N2	203	PEB	C3B-C4B-NB	2.69	113.96	110.05
31	DP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
31	IP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
29	j7	201	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	j9	201	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	LA	202	PEB	C2A-C1A-NA	2.69	110.59	108.27
29	LN	202	PEB	C2A-C1A-NA	2.69	110.59	108.27
30	MG	403	PUB	CBA-CAA-C3A	-2.69	108.90	112.98
31	sP	1001	CYC	C4A-C3A-C2A	-2.69	103.42	106.51
31	D1	1001	CYC	CAC-C3C-C2C	-2.69	107.54	114.26
29	GD	201	PEB	OD-C4D-ND	-2.69	121.95	125.93
31	oP	1001	CYC	C2C-C3C-C4C	2.69	105.37	101.34
29	JC	201	PEB	C1B-C2B-C3B	-2.69	103.42	106.51
29	JE	201	PEB	C1B-C2B-C3B	-2.69	103.42	106.51
29	IC	202	PEB	CMB-C2B-C1B	2.69	129.20	125.06
29	IE	202	PEB	CMB-C2B-C1B	2.69	129.20	125.06
29	d7	201	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	d9	201	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	EA	201	PEB	OD-C4D-ND	-2.69	121.95	125.93
29	EN	201	PEB	OD-C4D-ND	-2.69	121.95	125.93
29	M3	202	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	MO	202	PEB	CHA-C1B-NB	-2.69	119.31	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	HK	1001	CYC	CAC-C3C-C2C	-2.69	107.54	114.26
29	j1	203	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	jK	203	PEB	CHA-C1B-NB	-2.69	119.31	124.93
29	FD	201	PEB	CAB-CBB-CGB	-2.69	107.82	113.60
29	X2	202	PEB	C3B-C4B-NB	2.69	113.96	110.05
29	BD	201	PEB	CAB-CBB-CGB	-2.69	107.82	113.60
29	CD	203	PEB	OD-C4D-ND	-2.69	121.95	125.93
29	mJ	201	PEB	CHA-C1B-NB	-2.69	119.32	124.93
29	mL	201	PEB	CHA-C1B-NB	-2.69	119.32	124.93
31	QP	1001	CYC	C2C-C3C-C4C	2.69	105.36	101.34
29	aJ	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	aL	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	JA	201	PEB	O2B-CGB-CBB	2.68	122.66	114.03
29	JN	201	PEB	O2B-CGB-CBB	2.68	122.66	114.03
30	MQ	405	PUB	CBA-CAA-C3A	-2.68	108.91	112.98
29	P1	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	R1	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	PK	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	RK	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	A7	305	PEB	CAA-C3A-C4A	2.68	119.56	112.67
29	A9	305	PEB	CAA-C3A-C4A	2.68	119.56	112.67
29	K4	203	PEB	OD-C4D-ND	-2.68	121.95	125.93
29	DA	201	PEB	O2B-CGB-CBB	2.68	122.65	114.03
29	DN	201	PEB	O2B-CGB-CBB	2.68	122.65	114.03
29	FD	202	PEB	CMD-C2D-C3D	2.68	133.85	130.06
29	AA	202	PEB	CBC-CAC-C2C	-2.68	108.04	112.62
29	AN	202	PEB	CBC-CAC-C2C	-2.68	108.04	112.62
29	KD	203	PEB	OD-C4D-ND	-2.68	121.95	125.93
29	JG	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	uJ	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	uL	202	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	JQ	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	CJ	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	kJ	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	CL	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	kL	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	FA	201	PEB	O2B-CGB-CBB	2.68	122.65	114.03
29	FN	201	PEB	O2B-CGB-CBB	2.68	122.65	114.03
29	P1	203	PEB	CHC-C4C-C3C	-2.68	125.76	130.34
29	PK	203	PEB	CHC-C4C-C3C	-2.68	125.76	130.34
29	FC	201	PEB	C1B-C2B-C3B	-2.68	103.43	106.51
29	FE	201	PEB	C1B-C2B-C3B	-2.68	103.43	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YJ	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	YL	201	PEB	CHA-C1B-NB	-2.68	119.32	124.93
29	wL	303	PEB	OD-C4D-C3D	-2.68	123.39	129.46
29	BG	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	AJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	QJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	gJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	AL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	QL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	gL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	BQ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
31	sP	1001	CYC	C2A-C1A-NA	2.68	113.95	110.05
29	BA	201	PEB	O2B-CGB-CBB	2.68	122.64	114.03
29	BN	201	PEB	O2B-CGB-CBB	2.68	122.64	114.03
29	wL	303	PEB	CHC-C1D-ND	-2.68	110.83	113.95
29	HC	201	PEB	CAB-C3B-C4B	2.68	129.75	125.01
29	HE	201	PEB	CAB-C3B-C4B	2.68	129.75	125.01
29	dF	202	PEB	OD-C4D-C3D	-2.68	123.39	129.46
29	dI	202	PEB	OD-C4D-C3D	-2.68	123.39	129.46
29	l7	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	l9	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	NO	202	PEB	C3B-C4B-NB	2.68	113.95	110.05
29	TR	203	PEB	OD-C4D-ND	-2.68	121.96	125.93
29	P2	202	PEB	C3B-C4B-NB	2.68	113.94	110.05
29	NO	202	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	DC	201	PEB	C1B-C2B-C3B	-2.68	103.43	106.51
29	DE	201	PEB	C1B-C2B-C3B	-2.68	103.43	106.51
29	J5	202	PEB	C4B-C3B-C2B	-2.68	103.82	106.78
29	J8	202	PEB	C4B-C3B-C2B	-2.68	103.82	106.78
29	EJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	UJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	EL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	UL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	XR	203	PEB	C3B-C4B-NB	2.68	113.94	110.05
29	FG	201	PEB	CHC-C4C-C3C	-2.68	125.77	130.34
29	FQ	201	PEB	CHC-C4C-C3C	-2.68	125.77	130.34
29	L8	203	PEB	OD-C4D-C3D	-2.68	123.39	129.46
29	N2	201	PEB	OD-C4D-ND	-2.68	121.96	125.93
29	HA	201	PEB	O2B-CGB-CBB	2.68	122.63	114.03
29	HN	201	PEB	O2B-CGB-CBB	2.68	122.63	114.03
29	B4	201	PEB	CAB-CBB-CGB	-2.68	107.84	113.60
29	C4	203	PEB	OD-C4D-ND	-2.68	121.97	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OF	201	PEB	OD-C4D-C3D	-2.68	123.40	129.46
29	OI	201	PEB	OD-C4D-C3D	-2.68	123.40	129.46
29	KJ	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	KL	201	PEB	CHA-C1B-NB	-2.68	119.33	124.93
29	NO	203	PEB	OD-C4D-ND	-2.68	121.97	125.93
29	S7	201	PEB	CHA-C1B-NB	-2.68	119.34	124.93
29	S9	201	PEB	CHA-C1B-NB	-2.68	119.34	124.93
29	cJ	201	PEB	CHA-C1B-NB	-2.68	119.34	124.93
29	cL	201	PEB	CHA-C1B-NB	-2.68	119.34	124.93
29	N3	203	PEB	OD-C4D-ND	-2.68	121.97	125.93
29	MD	201	PEB	OD-C4D-ND	-2.68	121.97	125.93
29	OJ	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	OL	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	B4	202	PEB	CMD-C2D-C3D	2.67	133.84	130.06
31	qP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
29	JA	202	PEB	C1B-C2B-C3B	-2.67	103.44	106.51
29	JN	202	PEB	C1B-C2B-C3B	-2.67	103.44	106.51
29	U1	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	HG	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	UK	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	HQ	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	jF	201	PEB	OD-C4D-C3D	-2.67	123.40	129.46
29	jI	201	PEB	OD-C4D-C3D	-2.67	123.40	129.46
29	V7	203	PEB	CBB-CAB-C3B	2.67	120.06	112.63
29	V9	203	PEB	CBB-CAB-C3B	2.67	120.06	112.63
29	DD	202	PEB	OD-C4D-ND	-2.67	121.97	125.93
29	BD	202	PEB	OA-C1A-C2A	-2.67	124.05	126.17
29	N3	202	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	xL	302	PEB	C2A-C1A-NA	2.67	110.58	108.27
29	m1	202	PEB	CHC-C4C-C3C	-2.67	125.78	130.34
29	mK	202	PEB	CHC-C4C-C3C	-2.67	125.78	130.34
29	FC	201	PEB	CAB-C3B-C4B	2.67	129.74	125.01
29	FE	201	PEB	CAB-C3B-C4B	2.67	129.74	125.01
29	sJ	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	sL	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
31	xP	1001	CYC	C1B-NB-C4B	-2.67	107.27	110.67
31	fP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
29	g1	202	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	IJ	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	gK	202	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	IL	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	Y1	202	PEB	CHC-C4C-C3C	-2.67	125.78	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	YK	202	PEB	CHC-C4C-C3C	-2.67	125.78	130.34
29	C5	201	PEB	CAB-CBB-CGB	-2.67	107.85	113.60
29	C8	201	PEB	CAB-CBB-CGB	-2.67	107.85	113.60
31	UP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
29	F4	202	PEB	CMD-C2D-C3D	2.67	133.83	130.06
29	CD	202	PEB	C2A-C1A-NA	2.67	110.58	108.27
29	GJ	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
29	GL	201	PEB	CHA-C1B-NB	-2.67	119.34	124.93
31	OP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
29	lF	201	PEB	OD-C4D-C3D	-2.67	123.41	129.46
29	lI	201	PEB	OD-C4D-C3D	-2.67	123.41	129.46
29	wJ	303	PEB	OD-C4D-C3D	-2.67	123.41	129.46
29	xL	303	PEB	OD-C4D-C3D	-2.67	123.41	129.46
29	IA	202	PEB	CBC-CAC-C2C	-2.67	108.06	112.62
29	IN	202	PEB	CBC-CAC-C2C	-2.67	108.06	112.62
29	g7	203	PEB	CBB-CAB-C3B	2.67	120.05	112.63
29	g9	203	PEB	CBB-CAB-C3B	2.67	120.05	112.63
29	oJ	201	PEB	CHA-C1B-NB	-2.67	119.35	124.93
29	oL	201	PEB	CHA-C1B-NB	-2.67	119.35	124.93
31	HP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
31	uP	1001	CYC	C2C-C3C-C4C	2.67	105.34	101.34
31	VP	1001	CYC	C1B-NB-C4B	-2.67	107.27	110.67
29	IA	201	PEB	OD-C4D-ND	-2.67	121.98	125.93
29	MD	203	PEB	OD-C4D-ND	-2.67	121.98	125.93
29	IN	201	PEB	OD-C4D-ND	-2.67	121.98	125.93
29	iJ	201	PEB	CHA-C1B-NB	-2.67	119.35	124.93
29	iL	201	PEB	CHA-C1B-NB	-2.67	119.35	124.93
29	B8	203	PEB	OD-C4D-C3D	-2.67	123.41	129.46
29	L4	201	PEB	CAB-CBB-CGB	-2.67	107.86	113.60
29	G8	203	PEB	OD-C4D-C3D	-2.67	123.42	129.46
29	WR	202	PEB	OD-C4D-C3D	-2.67	123.42	129.46
29	GA	202	PEB	CBC-CAC-C2C	-2.67	108.07	112.62
29	GN	202	PEB	CBC-CAC-C2C	-2.67	108.07	112.62
31	MP	1001	CYC	C2C-C3C-C4C	2.67	105.33	101.34
29	BC	201	PEB	CAB-C3B-C4B	2.67	129.73	125.01
29	BE	201	PEB	CAB-C3B-C4B	2.67	129.73	125.01
29	e1	202	PEB	CHA-C1B-NB	-2.67	119.35	124.93
29	eK	202	PEB	CHA-C1B-NB	-2.67	119.35	124.93
29	i1	203	PEB	CHC-C4C-C3C	-2.67	125.79	130.34
29	iK	203	PEB	CHC-C4C-C3C	-2.67	125.79	130.34
29	EC	202	PEB	CMB-C2B-C1B	2.67	129.17	125.06
29	GC	202	PEB	CMB-C2B-C1B	2.67	129.17	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	EE	202	PEB	CMB-C2B-C1B	2.67	129.17	125.06
29	GE	202	PEB	CMB-C2B-C1B	2.67	129.17	125.06
29	BA	202	PEB	C2A-C1A-NA	2.67	110.57	108.27
29	BN	202	PEB	C2A-C1A-NA	2.67	110.57	108.27
29	BA	202	PEB	C1B-C2B-C3B	-2.67	103.45	106.51
29	BC	201	PEB	C1B-C2B-C3B	-2.67	103.45	106.51
29	BE	201	PEB	C1B-C2B-C3B	-2.67	103.45	106.51
29	BN	202	PEB	C1B-C2B-C3B	-2.67	103.45	106.51
29	P7	203	PEB	CBB-CAB-C3B	2.67	120.04	112.63
29	P9	203	PEB	CBB-CAB-C3B	2.67	120.04	112.63
29	d7	201	PEB	OA-C1A-C2A	-2.67	124.05	126.17
29	d9	201	PEB	OA-C1A-C2A	-2.67	124.05	126.17
29	N3	202	PEB	C3B-C4B-NB	2.67	113.93	110.05
31	1P	1002	CYC	C2C-C1C-NC	2.67	110.57	108.27
29	m7	203	PEB	CBB-CAB-C3B	2.67	120.03	112.63
29	m9	203	PEB	CBB-CAB-C3B	2.67	120.03	112.63
29	J4	202	PEB	CMD-C2D-C3D	2.67	133.82	130.06
29	LA	201	PEB	O2B-CGB-CBB	2.67	122.59	114.03
29	LN	201	PEB	O2B-CGB-CBB	2.67	122.59	114.03
30	AF	303	PUB	OD-C4D-ND	-2.67	121.98	125.93
30	AI	303	PUB	OD-C4D-ND	-2.67	121.98	125.93
29	EA	202	PEB	CBC-CAC-C2C	-2.67	108.07	112.62
29	EN	202	PEB	CBC-CAC-C2C	-2.67	108.07	112.62
29	J5	201	PEB	OA-C1A-C2A	-2.67	124.05	126.17
29	J8	201	PEB	OA-C1A-C2A	-2.67	124.05	126.17
29	LA	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	LN	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	LC	201	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	LE	201	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	L4	202	PEB	CMD-C2D-C3D	2.66	133.82	130.06
29	P2	202	PEB	OD-C4D-ND	-2.66	121.98	125.93
29	KA	201	PEB	OD-C4D-ND	-2.66	121.98	125.93
29	KN	201	PEB	OD-C4D-ND	-2.66	121.98	125.93
29	A1	302	PEB	C2A-C1A-NA	2.66	110.57	108.27
29	E4	202	PEB	C2A-C1A-NA	2.66	110.57	108.27
29	K4	202	PEB	C2A-C1A-NA	2.66	110.57	108.27
29	AK	302	PEB	C2A-C1A-NA	2.66	110.57	108.27
29	D4	202	PEB	CMD-C2D-C3D	2.66	133.82	130.06
29	GA	201	PEB	OD-C4D-ND	-2.66	121.98	125.93
29	GN	201	PEB	OD-C4D-ND	-2.66	121.98	125.93
29	FG	201	PEB	CHA-C1B-NB	-2.66	119.36	124.93
29	FQ	201	PEB	CHA-C1B-NB	-2.66	119.36	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KA	202	PEB	CBC-CAC-C2C	-2.66	108.08	112.62
29	KN	202	PEB	CBC-CAC-C2C	-2.66	108.08	112.62
29	BD	202	PEB	CMD-C2D-C3D	2.66	133.82	130.06
29	DD	202	PEB	CMD-C2D-C3D	2.66	133.82	130.06
31	IP	1001	CYC	C2C-C3C-C4C	2.66	105.33	101.34
29	HA	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	HN	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	LG	201	PEB	CHA-C1B-NB	-2.66	119.36	124.93
29	MQ	402	PEB	CHA-C1B-NB	-2.66	119.36	124.93
29	i7	203	PEB	CBB-CAB-C3B	2.66	120.02	112.63
29	i9	203	PEB	CBB-CAB-C3B	2.66	120.02	112.63
29	a7	203	PEB	CBB-CAB-C3B	2.66	120.02	112.63
29	a9	203	PEB	CBB-CAB-C3B	2.66	120.02	112.63
29	A7	305	PEB	OD-C4D-C3D	-2.66	123.43	129.46
29	A9	305	PEB	OD-C4D-C3D	-2.66	123.43	129.46
29	k1	202	PEB	CHA-C1B-NB	-2.66	119.36	124.93
29	kK	202	PEB	CHA-C1B-NB	-2.66	119.36	124.93
29	DC	201	PEB	CHC-C4C-C3C	-2.66	125.80	130.34
29	DE	201	PEB	CHC-C4C-C3C	-2.66	125.80	130.34
29	MQ	407	PEB	OD-C4D-C3D	-2.66	123.43	129.46
31	wP	1001	CYC	C2C-C3C-C4C	2.66	105.33	101.34
29	AA	201	PEB	OD-C4D-ND	-2.66	121.99	125.93
29	AN	201	PEB	OD-C4D-ND	-2.66	121.99	125.93
29	M4	202	PEB	C2A-C1A-NA	2.66	110.57	108.27
29	B5	203	PEB	OD-C4D-C3D	-2.66	123.43	129.46
29	FA	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	FN	202	PEB	C1B-C2B-C3B	-2.66	103.45	106.51
29	xJ	303	PEB	OD-C4D-C3D	-2.66	123.43	129.46
29	e1	203	PEB	CHC-C4C-C3C	-2.66	125.80	130.34
29	eK	203	PEB	CHC-C4C-C3C	-2.66	125.80	130.34
30	MA	403	PUB	CMD-C2D-C3D	2.66	131.76	127.77
29	V1	202	PEB	CHA-C1B-NB	-2.66	119.37	124.93
29	VK	202	PEB	CHA-C1B-NB	-2.66	119.37	124.93
30	AB	304	PUB	OA-C1A-NA	-2.66	121.99	125.93
29	c1	202	PEB	CHA-C1B-NB	-2.66	119.37	124.93
29	cK	202	PEB	CHA-C1B-NB	-2.66	119.37	124.93
29	I5	201	PEB	CAB-CBB-CGB	-2.66	107.88	113.60
29	I8	201	PEB	CAB-CBB-CGB	-2.66	107.88	113.60
29	k7	203	PEB	CBB-CAB-C3B	2.66	120.01	112.63
29	k9	203	PEB	CBB-CAB-C3B	2.66	120.01	112.63
29	UJ	201	PEB	OD-C4D-C3D	-2.66	123.44	129.46
29	UL	201	PEB	OD-C4D-C3D	-2.66	123.44	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JG	201	PEB	CHC-C4C-C3C	-2.66	125.81	130.34
29	JQ	201	PEB	CHC-C4C-C3C	-2.66	125.81	130.34
29	a1	202	PEB	CHA-C1B-NB	-2.66	119.38	124.93
29	aK	202	PEB	CHA-C1B-NB	-2.66	119.38	124.93
31	SP	1001	CYC	C2C-C3C-C4C	2.66	105.32	101.34
31	TP	1001	CYC	C2C-C3C-C4C	2.66	105.32	101.34
29	DA	202	PEB	C2A-C1A-NA	2.66	110.56	108.27
29	DN	202	PEB	C2A-C1A-NA	2.66	110.56	108.27
29	B4	202	PEB	OA-C1A-C2A	-2.66	124.06	126.17
29	h7	201	PEB	OA-C1A-C2A	-2.66	124.06	126.17
29	h9	201	PEB	OA-C1A-C2A	-2.66	124.06	126.17
29	LD	201	PEB	CAB-CBB-CGB	-2.66	107.89	113.60
29	ZB	202	PEB	CHA-C1B-NB	-2.66	119.38	124.93
29	ZM	202	PEB	CHA-C1B-NB	-2.66	119.38	124.93
30	BB	302	PUB	OD-C4D-C3D	-2.66	125.16	128.04
30	BM	302	PUB	OD-C4D-C3D	-2.66	125.16	128.04
29	wJ	303	PEB	CHC-C1D-ND	-2.66	110.86	113.95
29	a1	203	PEB	CHC-C4C-C3C	-2.66	125.81	130.34
29	aK	203	PEB	CHC-C4C-C3C	-2.66	125.81	130.34
29	L5	203	PEB	OD-C4D-C3D	-2.66	123.44	129.46
29	VR	201	PEB	OD-C4D-ND	-2.66	122.00	125.93
29	L3	202	PEB	C3B-C4B-NB	2.66	113.91	110.05
29	LO	202	PEB	C3B-C4B-NB	2.66	113.91	110.05
29	TR	203	PEB	C3B-C4B-NB	2.66	113.91	110.05
29	e7	203	PEB	CBB-CAB-C3B	2.66	120.00	112.63
29	e9	203	PEB	CBB-CAB-C3B	2.66	120.00	112.63
29	RR	201	PEB	OD-C4D-ND	-2.65	122.00	125.93
29	F3	203	PEB	C3B-C4B-NB	2.65	113.91	110.05
29	FO	203	PEB	C3B-C4B-NB	2.65	113.91	110.05
29	MG	405	PEB	OD-C4D-C3D	-2.65	123.44	129.46
29	YJ	201	PEB	OD-C4D-C3D	-2.65	123.44	129.46
29	YL	201	PEB	OD-C4D-C3D	-2.65	123.44	129.46
29	V1	203	PEB	CHC-C4C-C3C	-2.65	125.81	130.34
29	VK	203	PEB	CHC-C4C-C3C	-2.65	125.81	130.34
31	VP	1001	CYC	CAD-CBD-CGD	-2.65	106.32	113.76
29	Y7	203	PEB	CBB-CAB-C3B	2.65	120.00	112.63
29	Y9	203	PEB	CBB-CAB-C3B	2.65	120.00	112.63
29	i1	202	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	YB	201	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	DG	201	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	iK	202	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	YM	201	PEB	CHA-C1B-NB	-2.65	119.38	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DQ	201	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	G4	202	PEB	C2A-C1A-NA	2.65	110.56	108.27
29	A9	304	PEB	OD-C4D-C3D	-2.65	123.45	129.46
29	T2	203	PEB	C3B-C4B-NB	2.65	113.91	110.05
29	F5	203	PEB	OD-C4D-C3D	-2.65	123.45	129.46
29	F8	203	PEB	OD-C4D-C3D	-2.65	123.45	129.46
31	xP	1001	CYC	CAD-CBD-CGD	-2.65	106.32	113.76
29	HB	202	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	HM	202	PEB	CHA-C1B-NB	-2.65	119.38	124.93
29	FC	201	PEB	CHC-C4C-C3C	-2.65	125.81	130.34
29	FE	201	PEB	CHC-C4C-C3C	-2.65	125.81	130.34
29	CA	202	PEB	CBC-CAC-C2C	-2.65	108.09	112.62
29	CN	202	PEB	CBC-CAC-C2C	-2.65	108.09	112.62
29	A5	201	PEB	CAB-CBB-CGB	-2.65	107.90	113.60
29	A8	201	PEB	CAB-CBB-CGB	-2.65	107.90	113.60
29	NR	201	PEB	OD-C4D-ND	-2.65	122.00	125.93
29	Z1	201	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	JB	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	TB	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	ZK	201	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	JM	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	TM	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	R2	203	PEB	C3B-C4B-NB	2.65	113.91	110.05
29	RR	203	PEB	C3B-C4B-NB	2.65	113.91	110.05
29	DC	201	PEB	CAB-C3B-C4B	2.65	129.70	125.01
29	DE	201	PEB	CAB-C3B-C4B	2.65	129.70	125.01
29	JC	201	PEB	CHC-C4C-C3C	-2.65	125.82	130.34
29	JE	201	PEB	CHC-C4C-C3C	-2.65	125.82	130.34
29	D3	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	DO	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	LD	202	PEB	OA-C1A-C2A	-2.65	124.07	126.17
29	xL	303	PEB	CHC-C1D-ND	-2.65	110.87	113.95
29	HD	202	PEB	CMD-C2D-C3D	2.65	133.80	130.06
29	JD	202	PEB	CMD-C2D-C3D	2.65	133.80	130.06
29	IA	201	PEB	C2A-C1A-NA	2.65	110.56	108.27
29	IN	201	PEB	C2A-C1A-NA	2.65	110.56	108.27
31	sP	1001	CYC	C2C-C3C-C4C	2.65	105.31	101.34
29	mB	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	mM	202	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	T7	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
29	T9	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
29	GD	202	PEB	C2A-C1A-NA	2.65	110.56	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BC	203	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	BE	203	PEB	CHA-C1B-NB	-2.65	119.39	124.93
29	XR	203	PEB	OD-C4D-ND	-2.65	122.01	125.93
29	DD	202	PEB	OA-C1A-C2A	-2.65	124.07	126.17
29	R7	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
29	R9	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
31	1P	1002	CYC	C1B-C2B-C3B	-2.65	105.11	107.87
29	VR	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	RB	202	PEB	CHA-C1B-NB	-2.65	119.40	124.93
29	RM	202	PEB	CHA-C1B-NB	-2.65	119.40	124.93
29	c7	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
29	c9	203	PEB	CBB-CAB-C3B	2.65	119.98	112.63
29	AJ	201	PEB	OD-C4D-C3D	-2.65	123.46	129.46
29	AL	201	PEB	OD-C4D-C3D	-2.65	123.46	129.46
29	V2	203	PEB	OD-C4D-ND	-2.65	122.01	125.93
29	BB	301	PEB	OD-C4D-C3D	-2.65	123.47	129.46
29	BM	301	PEB	OD-C4D-C3D	-2.65	123.47	129.46
29	H3	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	HO	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	PR	202	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	DG	202	PEB	C2A-C1A-NA	2.65	110.55	108.27
29	DQ	202	PEB	C2A-C1A-NA	2.65	110.55	108.27
29	HG	201	PEB	CHC-C4C-C3C	-2.65	125.82	130.34
29	HQ	201	PEB	CHC-C4C-C3C	-2.65	125.82	130.34
29	QR	202	PEB	OD-C4D-C3D	-2.65	123.47	129.46
29	B3	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	BO	203	PEB	C3B-C4B-NB	2.65	113.90	110.05
29	xJ	302	PEB	C2A-C1A-NA	2.64	110.55	108.27
29	BC	201	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
29	BE	201	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
29	DG	201	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
29	DQ	201	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
29	JD	202	PEB	OA-C1A-C2A	-2.64	124.07	126.17
29	QJ	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	sJ	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	QL	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	sL	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
31	eP	1001	CYC	C2C-C3C-C4C	2.64	105.30	101.34
29	EJ	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	EL	201	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	W2	202	PEB	OD-C4D-C3D	-2.64	123.47	129.46
29	FG	202	PEB	C2A-C1A-NA	2.64	110.55	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FQ	202	PEB	C2A-C1A-NA	2.64	110.55	108.27
29	J3	203	PEB	C3B-C4B-NB	2.64	113.89	110.05
29	JO	203	PEB	C3B-C4B-NB	2.64	113.89	110.05
29	VR	203	PEB	OD-C4D-ND	-2.64	122.02	125.93
29	VB	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	DC	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	DE	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	VM	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	MD	202	PEB	C2A-C1A-NA	2.64	110.55	108.27
29	SJ	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	SL	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
31	wP	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
29	CC	202	PEB	CMB-C2B-C1B	2.64	129.13	125.06
29	CE	202	PEB	CMB-C2B-C1B	2.64	129.13	125.06
29	GJ	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	KJ	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	GL	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	KL	201	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	k1	203	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
29	kK	203	PEB	CHC-C4C-C3C	-2.64	125.83	130.34
31	XP	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
29	E4	203	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	MN	404	PEB	OD-C4D-ND	-2.64	122.02	125.93
29	H4	202	PEB	CMD-C2D-C3D	2.64	133.79	130.06
29	Q2	202	PEB	OD-C4D-C3D	-2.64	123.48	129.46
29	W7	201	PEB	OA-C1A-C2A	-2.64	124.08	126.17
29	W9	201	PEB	OA-C1A-C2A	-2.64	124.08	126.17
29	DB	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	DM	202	PEB	CHA-C1B-NB	-2.64	119.41	124.93
29	c1	203	PEB	CHC-C4C-C3C	-2.64	125.84	130.34
29	cK	203	PEB	CHC-C4C-C3C	-2.64	125.84	130.34
29	DA	202	PEB	C1B-C2B-C3B	-2.64	103.48	106.51
29	DN	202	PEB	C1B-C2B-C3B	-2.64	103.48	106.51
31	oP	1001	CYC	C2A-C1A-NA	2.64	113.89	110.05
29	aB	203	PEB	CHA-C1B-NB	-2.64	119.42	124.93
29	aM	203	PEB	CHA-C1B-NB	-2.64	119.42	124.93
29	LC	201	PEB	CHC-C4C-C3C	-2.64	125.84	130.34
29	LE	201	PEB	CHC-C4C-C3C	-2.64	125.84	130.34
29	M3	202	PEB	C3B-C4B-NB	2.64	113.89	110.05
29	MO	202	PEB	C3B-C4B-NB	2.64	113.89	110.05
29	KB	203	PEB	CHA-C1B-NB	-2.64	119.42	124.93
29	KM	203	PEB	CHA-C1B-NB	-2.64	119.42	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	xJ	303	PEB	CHC-C1D-ND	-2.64	110.89	113.95
29	kJ	201	PEB	OD-C4D-C3D	-2.64	123.49	129.46
29	kL	201	PEB	OD-C4D-C3D	-2.64	123.49	129.46
29	RR	203	PEB	OD-C4D-ND	-2.64	122.03	125.93
30	AM	304	PUB	OA-C1A-NA	-2.64	122.03	125.93
29	A7	301	PEB	C2A-C1A-NA	2.64	110.55	108.27
29	A9	301	PEB	C2A-C1A-NA	2.64	110.55	108.27
29	CA	201	PEB	OD-C4D-ND	-2.64	122.03	125.93
29	CN	201	PEB	OD-C4D-ND	-2.64	122.03	125.93
29	CJ	201	PEB	OD-C4D-C3D	-2.64	123.49	129.46
29	CL	201	PEB	OD-C4D-C3D	-2.64	123.49	129.46
29	LC	201	PEB	CAB-C3B-C4B	2.63	129.67	125.01
29	LE	201	PEB	CAB-C3B-C4B	2.63	129.67	125.01
29	NR	203	PEB	OD-C4D-ND	-2.63	122.03	125.93
30	AB	304	PUB	CMD-C2D-C3D	2.63	131.72	127.77
29	OJ	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
29	OL	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
29	BB	301	PEB	CHA-C1B-NB	-2.63	119.42	124.93
29	BM	301	PEB	CHA-C1B-NB	-2.63	119.42	124.93
29	gJ	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
29	gL	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
30	MQ	405	PUB	CMD-C2D-C3D	2.63	131.72	127.77
29	H5	203	PEB	OD-C4D-C3D	-2.63	123.49	129.46
29	mJ	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
29	mL	201	PEB	OD-C4D-C3D	-2.63	123.49	129.46
31	QP	1001	CYC	C2A-C1A-NA	2.63	113.88	110.05
29	A7	305	PEB	C1C-CHB-C4B	-2.63	125.66	128.81
29	A9	305	PEB	C1C-CHB-C4B	-2.63	125.66	128.81
31	yP	1001	CYC	C1B-C2B-C3B	-2.63	105.12	107.87
29	JC	201	PEB	CAB-C3B-C4B	2.63	129.67	125.01
29	JE	201	PEB	CAB-C3B-C4B	2.63	129.67	125.01
29	C4	202	PEB	C2A-C1A-NA	2.63	110.54	108.27
29	A7	304	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	HC	201	PEB	C1B-C2B-C3B	-2.63	103.48	106.51
29	HE	201	PEB	C1B-C2B-C3B	-2.63	103.48	106.51
29	T2	203	PEB	OD-C4D-ND	-2.63	122.03	125.93
29	qJ	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	qL	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	QB	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
29	QM	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
29	V2	203	PEB	C3B-C4B-NB	2.63	113.88	110.05
29	XR	201	PEB	OD-C4D-ND	-2.63	122.03	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	AP	1001	CYC	C2C-C3C-C4C	2.63	105.28	101.34
31	rP	1001	CYC	C2C-C3C-C4C	2.63	105.28	101.34
29	aJ	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	aL	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	ED	201	PEB	C2A-C1A-NA	2.63	110.54	108.27
29	FB	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
29	FM	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
29	H8	203	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	IJ	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	IL	201	PEB	OD-C4D-C3D	-2.63	123.50	129.46
29	HC	201	PEB	CHC-C4C-C3C	-2.63	125.85	130.34
29	HE	201	PEB	CHC-C4C-C3C	-2.63	125.85	130.34
31	DP	1001	CYC	C2A-C1A-NA	2.63	113.87	110.05
29	kB	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
29	kM	202	PEB	CHA-C1B-NB	-2.63	119.43	124.93
31	CP	1001	CYC	C2C-C3C-C4C	2.63	105.28	101.34
29	M2	202	PEB	OD-C4D-C3D	-2.63	123.50	129.46
31	IP	1001	CYC	C2A-C1A-NA	2.63	113.87	110.05
31	OP	1001	CYC	C2A-C1A-NA	2.63	113.87	110.05
29	iJ	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	uJ	202	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	iL	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	uL	202	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	LG	201	PEB	CHC-C4C-C3C	-2.63	125.86	130.34
29	MQ	402	PEB	CHC-C4C-C3C	-2.63	125.86	130.34
29	gB	202	PEB	CHA-C1B-NB	-2.63	119.44	124.93
29	gM	202	PEB	CHA-C1B-NB	-2.63	119.44	124.93
31	kP	1001	CYC	C2A-C1A-NA	2.63	113.87	110.05
29	Z7	201	PEB	OA-C1A-C2A	-2.63	124.08	126.17
29	Z9	201	PEB	OA-C1A-C2A	-2.63	124.08	126.17
29	oJ	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	oL	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	MR	202	PEB	CHA-C1B-NB	-2.63	119.44	124.93
29	UR	201	PEB	OD-C4D-ND	-2.63	122.04	125.93
31	GP	1001	CYC	C2C-C3C-C4C	2.63	105.27	101.34
29	A1	301	PEB	C1C-CHB-C4B	-2.63	125.67	128.81
29	AK	301	PEB	C1C-CHB-C4B	-2.63	125.67	128.81
29	M2	201	PEB	OD-C4D-ND	-2.63	122.04	125.93
29	PR	202	PEB	OD-C4D-ND	-2.63	122.04	125.93
30	wL	304	PUB	OD-C4D-ND	-2.63	122.04	125.93
29	WJ	202	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	eJ	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WL	202	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	eL	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	MJ	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	cJ	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	ML	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	cL	201	PEB	OD-C4D-C3D	-2.63	123.51	129.46
29	CA	201	PEB	C2B-C1B-NB	2.63	116.13	110.53
29	CN	201	PEB	C2B-C1B-NB	2.63	116.13	110.53
31	FP	1001	CYC	C2A-C1A-NA	2.62	113.87	110.05
29	J3	202	PEB	OD-C4D-C3D	-2.62	123.51	129.46
29	JO	202	PEB	OD-C4D-C3D	-2.62	123.51	129.46
29	iB	202	PEB	CHA-C1B-NB	-2.62	119.44	124.93
29	iM	202	PEB	CHA-C1B-NB	-2.62	119.44	124.93
30	AM	304	PUB	CMD-C2D-C3D	2.62	131.71	127.77
29	C4	203	PEB	CHA-C1B-NB	-2.62	119.45	124.93
29	MG	405	PEB	C2A-C1A-NA	2.62	110.53	108.27
29	O2	202	PEB	OD-C4D-C3D	-2.62	123.52	129.46
29	l7	201	PEB	OA-C1A-C2A	-2.62	124.09	126.17
29	l9	201	PEB	OA-C1A-C2A	-2.62	124.09	126.17
29	MQ	407	PEB	CMB-C2B-C1B	2.62	129.10	125.06
30	MG	403	PUB	CMD-C2D-C3D	2.62	131.70	127.77
29	JA	201	PEB	CAA-C3A-C2A	-2.62	107.71	114.26
29	JN	201	PEB	CAA-C3A-C2A	-2.62	107.71	114.26
31	uP	1001	CYC	C2A-C1A-NA	2.62	113.86	110.05
29	X2	202	PEB	OD-C4D-ND	-2.62	122.05	125.93
29	K3	201	PEB	CMA-C2A-C1A	-2.62	106.75	112.40
29	KO	201	PEB	CMA-C2A-C1A	-2.62	106.75	112.40
29	A3	201	PEB	CMA-C2A-C1A	-2.62	106.75	112.40
29	AO	201	PEB	CMA-C2A-C1A	-2.62	106.75	112.40
29	BG	201	PEB	CHC-C4C-C3C	-2.62	125.87	130.34
29	BQ	201	PEB	CHC-C4C-C3C	-2.62	125.87	130.34
31	MP	1001	CYC	C2A-C1A-NA	2.62	113.86	110.05
29	e2	402	PEB	OD-C4D-ND	-2.62	122.05	125.93
29	LB	202	PEB	CHA-C1B-NB	-2.62	119.45	124.93
29	ED	202	PEB	CHA-C1B-NB	-2.62	119.45	124.93
29	LM	202	PEB	CHA-C1B-NB	-2.62	119.45	124.93
29	N2	203	PEB	OD-C4D-ND	-2.62	122.05	125.93
29	TR	201	PEB	OD-C4D-ND	-2.62	122.05	125.93
29	MG	405	PEB	CMB-C2B-C1B	2.62	129.10	125.06
29	MQ	407	PEB	C2A-C1A-NA	2.62	110.53	108.27
29	cB	202	PEB	CHA-C1B-NB	-2.62	119.46	124.93
29	cM	202	PEB	CHA-C1B-NB	-2.62	119.46	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	SP	1001	CYC	C2A-C1A-NA	2.62	113.86	110.05
29	W2	201	PEB	OD-C4D-ND	-2.62	122.05	125.93
29	L4	202	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	GA	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	IA	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	GN	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	IN	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	R2	203	PEB	OD-C4D-ND	-2.62	122.05	125.93
31	BP	1001	CYC	C2A-C1A-NA	2.62	113.86	110.05
29	J4	202	PEB	C2B-C1B-NB	2.62	116.11	110.53
31	NP	1001	CYC	C2C-C3C-C4C	2.62	105.26	101.34
29	FA	201	PEB	CAA-C3A-C2A	-2.62	107.72	114.26
29	FN	201	PEB	CAA-C3A-C2A	-2.62	107.72	114.26
29	aF	201	PEB	C1B-C2B-C3B	-2.62	103.50	106.51
29	aI	201	PEB	C1B-C2B-C3B	-2.62	103.50	106.51
29	EA	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	EN	201	PEB	C2B-C1B-NB	2.62	116.11	110.53
29	OR	201	PEB	OD-C4D-ND	-2.62	122.06	125.93
30	xJ	304	PUB	OD-C4D-ND	-2.62	122.06	125.93
29	LD	202	PEB	CMD-C2D-C3D	2.62	133.75	130.06
29	JC	202	PEB	CHA-C1B-NB	-2.61	119.46	124.93
29	JE	202	PEB	CHA-C1B-NB	-2.61	119.46	124.93
29	B3	202	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	BO	202	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	E3	201	PEB	CMA-C2A-C1A	-2.61	106.77	112.40
29	EO	201	PEB	CMA-C2A-C1A	-2.61	106.77	112.40
29	FC	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
29	HC	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
29	FE	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
29	HE	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
31	EP	1001	CYC	C2C-C3C-C4C	2.61	105.25	101.34
29	S2	201	PEB	C3B-C4B-NB	2.61	113.85	110.05
29	VF	201	PEB	C1B-C2B-C3B	-2.61	103.51	106.51
29	VI	201	PEB	C1B-C2B-C3B	-2.61	103.51	106.51
29	MD	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
29	MQ	403	PEB	CMB-C2B-C1B	2.61	129.09	125.06
29	KD	203	PEB	CHA-C1B-NB	-2.61	119.47	124.93
29	J3	203	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	JO	203	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	R2	201	PEB	OD-C4D-ND	-2.61	122.06	125.93
31	HP	1001	CYC	C2A-C1A-NA	2.61	113.85	110.05
29	rJ	203	PEB	OD-C4D-C3D	-2.61	123.54	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	rL	203	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	SR	202	PEB	OD-C4D-C3D	-2.61	123.54	129.46
29	AA	201	PEB	C2B-C1B-NB	2.61	116.10	110.53
29	AN	201	PEB	C2B-C1B-NB	2.61	116.10	110.53
29	H3	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	L3	202	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	HO	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	LO	202	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	D3	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	DO	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	UR	201	PEB	CMA-C2A-C1A	-2.61	106.78	112.40
29	F3	202	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	FO	202	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	MR	201	PEB	OD-C4D-ND	-2.61	122.06	125.93
30	A1	304	PUB	C4B-CHB-C1C	-2.61	125.69	128.81
30	AK	304	PUB	C4B-CHB-C1C	-2.61	125.69	128.81
29	gF	201	PEB	C1B-C2B-C3B	-2.61	103.51	106.51
29	gI	201	PEB	C1B-C2B-C3B	-2.61	103.51	106.51
29	DD	202	PEB	C2B-C1B-NB	2.61	116.10	110.53
31	vP	1001	CYC	C2C-C3C-C4C	2.61	105.25	101.34
30	xL	304	PUB	OD-C4D-ND	-2.61	122.07	125.93
29	V7	202	PEB	CAB-C3B-C4B	2.61	129.62	125.01
29	V9	202	PEB	CAB-C3B-C4B	2.61	129.62	125.01
29	FA	201	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	FN	201	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	J4	202	PEB	OA-C1A-C2A	-2.61	124.10	126.17
29	ID	203	PEB	CHA-C1B-NB	-2.61	119.48	124.93
29	U2	202	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	I3	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	IO	203	PEB	OD-C4D-C3D	-2.61	123.55	129.46
29	RF	201	PEB	C1B-C2B-C3B	-2.61	103.52	106.51
29	RI	201	PEB	C1B-C2B-C3B	-2.61	103.52	106.51
31	iP	1001	CYC	C2C-C3C-C4C	2.61	105.24	101.34
31	pP	1001	CYC	C2C-C3C-C4C	2.61	105.24	101.34
29	gB	203	PEB	O2B-CGB-CBB	2.61	122.40	114.03
29	gM	203	PEB	O2B-CGB-CBB	2.61	122.40	114.03
31	UP	1001	CYC	C2A-C1A-NA	2.61	113.84	110.05
31	fP	1001	CYC	C2A-C1A-NA	2.61	113.84	110.05
31	hP	1001	CYC	C2A-C1A-NA	2.61	113.84	110.05
31	nP	1001	CYC	C2A-C1A-NA	2.61	113.84	110.05
29	HA	201	PEB	CAA-C3A-C2A	-2.61	107.75	114.26
29	HN	201	PEB	CAA-C3A-C2A	-2.61	107.75	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LC	203	PEB	CHA-C1B-NB	-2.61	119.48	124.93
29	LE	203	PEB	CHA-C1B-NB	-2.61	119.48	124.93
29	L4	202	PEB	OA-C1A-C2A	-2.61	124.10	126.17
29	U2	201	PEB	OD-C4D-ND	-2.61	122.07	125.93
29	HA	202	PEB	OD-C4D-C3D	-2.61	123.56	129.46
29	hJ	203	PEB	OD-C4D-C3D	-2.61	123.56	129.46
29	hL	203	PEB	OD-C4D-C3D	-2.61	123.56	129.46
29	HN	202	PEB	OD-C4D-C3D	-2.61	123.56	129.46
29	wJ	302	PEB	C2A-C1A-NA	2.61	110.52	108.27
31	KP	1001	CYC	C2C-C3C-C4C	2.61	105.24	101.34
31	RP	1001	CYC	C2C-C3C-C4C	2.61	105.24	101.34
29	LD	202	PEB	C2B-C1B-NB	2.60	116.09	110.53
29	RB	203	PEB	O2B-CGB-CBB	2.60	122.40	114.03
29	RM	203	PEB	O2B-CGB-CBB	2.60	122.40	114.03
31	WP	1001	CYC	C1B-C2B-C3B	-2.60	105.15	107.87
29	PJ	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	PL	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	D4	202	PEB	C2B-C1B-NB	2.60	116.09	110.53
29	wJ	303	PEB	CHA-C1B-NB	-2.60	119.49	124.93
29	QR	201	PEB	OD-C4D-ND	-2.60	122.07	125.93
29	IJ	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	IL	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
31	JP	1001	CYC	C2C-C3C-C4C	2.60	105.24	101.34
29	VB	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
29	VM	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
29	jB	201	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	jM	201	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	V2	201	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	WR	201	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	HD	202	PEB	C2B-C1B-NB	2.60	116.08	110.53
29	kB	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
29	kM	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
31	qP	1001	CYC	C2A-C1A-NA	2.60	113.83	110.05
29	BJ	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	BL	203	PEB	OD-C4D-C3D	-2.60	123.56	129.46
29	LA	201	PEB	CAA-C3A-C2A	-2.60	107.76	114.26
29	LN	201	PEB	CAA-C3A-C2A	-2.60	107.76	114.26
29	NJ	203	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	NL	203	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	cB	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
29	cM	203	PEB	O2B-CGB-CBB	2.60	122.39	114.03
31	cP	1001	CYC	C2C-C3C-C4C	2.60	105.23	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O2	201	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	T2	201	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	KA	201	PEB	C2B-C1B-NB	2.60	116.08	110.53
29	KN	201	PEB	C2B-C1B-NB	2.60	116.08	110.53
29	MR	201	PEB	CMA-C2A-C1A	-2.60	106.80	112.40
29	DF	1002	PEB	CBC-CAC-C2C	-2.60	108.18	112.62
29	DI	1002	PEB	CBC-CAC-C2C	-2.60	108.18	112.62
29	U2	201	PEB	CMA-C2A-C1A	-2.60	106.80	112.40
29	LC	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	LE	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	HJ	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	HL	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	H3	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	HO	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	UB	201	PEB	C1C-CHB-C4B	-2.60	125.70	128.81
29	UM	201	PEB	C1C-CHB-C4B	-2.60	125.70	128.81
29	HA	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	CB	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	CM	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	HN	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	FB	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03
29	FM	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03
29	wL	302	PEB	C2A-C1A-NA	2.60	110.51	108.27
29	BA	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	JA	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	JC	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	JE	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	BN	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	JN	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	UR	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	S7	201	PEB	OA-C1A-C2A	-2.60	124.11	126.17
29	j7	201	PEB	OA-C1A-C2A	-2.60	124.11	126.17
29	S9	201	PEB	OA-C1A-C2A	-2.60	124.11	126.17
29	j9	201	PEB	OA-C1A-C2A	-2.60	124.11	126.17
29	BA	201	PEB	CAA-C3A-C2A	-2.60	107.77	114.26
29	BN	201	PEB	CAA-C3A-C2A	-2.60	107.77	114.26
29	KB	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	YB	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	KM	201	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	YM	202	PEB	OD-C4D-C3D	-2.60	123.57	129.46
29	DB	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03
29	TB	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DM	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03
29	TM	203	PEB	O2B-CGB-CBB	2.60	122.38	114.03
29	HF	1002	PEB	CBC-CAC-C2C	-2.60	108.19	112.62
29	HI	1002	PEB	CBC-CAC-C2C	-2.60	108.19	112.62
29	MA	404	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	KB	201	PEB	C1C-CHB-C4B	-2.60	125.71	128.81
29	KM	201	PEB	C1C-CHB-C4B	-2.60	125.71	128.81
29	BD	202	PEB	C2B-C1B-NB	2.60	116.07	110.53
30	A7	303	PUB	C2C-C1C-NC	2.60	113.83	110.05
30	A9	303	PUB	C2C-C1C-NC	2.60	113.83	110.05
31	mP	1001	CYC	C2C-C3C-C4C	2.60	105.23	101.34
29	LA	201	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	LN	201	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	DA	202	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	DN	202	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	F4	202	PEB	C2B-C1B-NB	2.60	116.07	110.53
31	PP	1001	CYC	C2C-C3C-C4C	2.60	105.23	101.34
29	xJ	303	PEB	OD-C4D-ND	-2.60	122.08	125.93
29	S2	202	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	aB	201	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	aM	201	PEB	OD-C4D-C3D	-2.60	123.58	129.46
29	DA	201	PEB	CAA-C3A-C2A	-2.60	107.77	114.26
29	DN	201	PEB	CAA-C3A-C2A	-2.60	107.77	114.26
29	FF	1002	PEB	CBC-CAC-C2C	-2.60	108.19	112.62
29	FI	1002	PEB	CBC-CAC-C2C	-2.60	108.19	112.62
29	D4	202	PEB	OA-C1A-C2A	-2.60	124.11	126.17
31	jP	1001	CYC	C2A-C1A-NA	2.60	113.82	110.05
31	tP	1001	CYC	C2C-C3C-C4C	2.60	105.23	101.34
29	YB	202	PEB	C1C-CHB-C4B	-2.60	125.71	128.81
29	YM	202	PEB	C1C-CHB-C4B	-2.60	125.71	128.81
29	CA	201	PEB	C2A-C1A-NA	2.59	110.51	108.27
29	CN	201	PEB	C2A-C1A-NA	2.59	110.51	108.27
29	MG	401	PEB	CMB-C2B-C1B	2.59	129.06	125.06
29	k7	202	PEB	CAB-C3B-C4B	2.59	129.60	125.01
29	k9	202	PEB	CAB-C3B-C4B	2.59	129.60	125.01
29	Q2	201	PEB	CMA-C2A-C1A	-2.59	106.81	112.40
29	ZB	203	PEB	C2A-C1A-NA	2.59	110.51	108.27
29	ZM	203	PEB	C2A-C1A-NA	2.59	110.51	108.27
29	LA	202	PEB	OD-C4D-C3D	-2.59	123.58	129.46
29	LN	202	PEB	OD-C4D-C3D	-2.59	123.58	129.46
29	G3	201	PEB	CMA-C2A-C1A	-2.59	106.81	112.40
29	GO	201	PEB	CMA-C2A-C1A	-2.59	106.81	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JD	202	PEB	C2B-C1B-NB	2.59	116.06	110.53
29	B3	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	BO	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
31	gP	1001	CYC	C2C-C3C-C4C	2.59	105.22	101.34
29	M2	201	PEB	CMA-C2A-C1A	-2.59	106.81	112.40
29	ZB	203	PEB	O2B-CGB-CBB	2.59	122.36	114.03
29	ZM	203	PEB	O2B-CGB-CBB	2.59	122.36	114.03
29	DC	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	DE	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	fJ	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	fL	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	W2	201	PEB	CMA-C2A-C1A	-2.59	106.82	112.40
29	VJ	202	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	VL	202	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	hB	201	PEB	C1C-CHB-C4B	-2.59	125.71	128.81
29	hM	201	PEB	C1C-CHB-C4B	-2.59	125.71	128.81
29	B4	202	PEB	C2B-C1B-NB	2.59	116.06	110.53
29	N7	1002	PEB	CHB-C4B-C3B	-2.59	119.34	125.32
29	N9	1002	PEB	CHB-C4B-C3B	-2.59	119.34	125.32
30	wJ	304	PUB	OD-C4D-ND	-2.59	122.09	125.93
29	LJ	202	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	bJ	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	LL	202	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	bL	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	iB	203	PEB	O2B-CGB-CBB	2.59	122.35	114.03
29	iM	203	PEB	O2B-CGB-CBB	2.59	122.35	114.03
29	fB	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	fM	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
31	YP	1000	CYC	C1B-C2B-C3B	-2.59	105.17	107.87
29	Y1	201	PEB	CHB-C4B-NB	-2.59	125.23	128.83
29	YK	201	PEB	CHB-C4B-NB	-2.59	125.23	128.83
29	RJ	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	RL	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	F3	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	SB	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	HC	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	HE	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	SM	201	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	FO	203	PEB	OD-C4D-C3D	-2.59	123.59	129.46
29	HB	203	PEB	O2B-CGB-CBB	2.59	122.35	114.03
29	PB	202	PEB	O2B-CGB-CBB	2.59	122.35	114.03
29	HM	203	PEB	O2B-CGB-CBB	2.59	122.35	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PM	202	PEB	O2B-CGB-CBB	2.59	122.35	114.03
29	EB	201	PEB	C1C-CHB-C4B	-2.59	125.72	128.81
29	EM	201	PEB	C1C-CHB-C4B	-2.59	125.72	128.81
29	C3	201	PEB	CMA-C2A-C1A	-2.59	106.82	112.40
29	CO	201	PEB	CMA-C2A-C1A	-2.59	106.82	112.40
29	QR	201	PEB	CMA-C2A-C1A	-2.59	106.82	112.40
29	NB	202	PEB	O2B-CGB-CBB	2.59	122.34	114.03
29	NM	202	PEB	O2B-CGB-CBB	2.59	122.34	114.03
29	m7	202	PEB	CAB-C3B-C4B	2.59	129.59	125.01
29	m9	202	PEB	CAB-C3B-C4B	2.59	129.59	125.01
29	tJ	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	tL	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	D7	1002	PEB	CHB-C4B-C3B	-2.59	119.34	125.32
29	D9	1002	PEB	CHB-C4B-C3B	-2.59	119.34	125.32
29	XB	202	PEB	O2B-CGB-CBB	2.59	122.34	114.03
29	XM	202	PEB	O2B-CGB-CBB	2.59	122.34	114.03
29	l1	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	FA	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	lK	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	FN	202	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	L9	1002	PEB	CHB-C4B-C3B	-2.59	119.34	125.32
29	FB	203	PEB	C2A-C1A-NA	2.59	110.50	108.27
29	FM	203	PEB	C2A-C1A-NA	2.59	110.50	108.27
29	ZJ	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	ZL	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	NF	1002	PEB	CAA-C3A-C4A	-2.59	106.03	112.67
29	NI	1002	PEB	CAA-C3A-C4A	-2.59	106.03	112.67
29	SR	202	PEB	CHA-C4A-NA	-2.59	122.13	125.20
29	nJ	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	nL	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	dB	201	PEB	C1C-CHB-C4B	-2.59	125.72	128.81
29	dM	201	PEB	C1C-CHB-C4B	-2.59	125.72	128.81
29	UB	201	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	UM	201	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	A1	303	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	BA	201	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	pJ	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	AK	303	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	pL	203	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	BN	201	PEB	OD-C4D-C3D	-2.59	123.60	129.46
29	QB	203	PEB	C1C-CHB-C4B	-2.59	125.72	128.81
29	QM	203	PEB	C1C-CHB-C4B	-2.59	125.72	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LB	203	PEB	O2B-CGB-CBB	2.58	122.33	114.03
29	LM	203	PEB	O2B-CGB-CBB	2.58	122.33	114.03
29	I3	201	PEB	CMA-C2A-C1A	-2.58	106.83	112.40
29	IO	201	PEB	CMA-C2A-C1A	-2.58	106.83	112.40
31	1P	1001	CYC	C2A-C1A-NA	2.58	113.81	110.05
29	dJ	203	PEB	OD-C4D-C3D	-2.58	123.60	129.46
29	dL	203	PEB	OD-C4D-C3D	-2.58	123.60	129.46
29	a7	202	PEB	CAB-C3B-C4B	2.58	129.58	125.01
29	a9	202	PEB	CAB-C3B-C4B	2.58	129.58	125.01
29	F7	1002	PEB	CHB-C4B-C3B	-2.58	119.35	125.32
29	W1	202	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	FJ	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	WK	202	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	FL	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	PF	201	PEB	C1B-C2B-C3B	-2.58	103.54	106.51
29	PI	201	PEB	C1B-C2B-C3B	-2.58	103.54	106.51
29	DJ	202	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	DL	202	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	BC	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	BE	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	jJ	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	jL	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
31	pP	1001	CYC	C2C-C1C-NC	2.58	110.50	108.27
29	A3	201	PEB	C4B-C3B-C2B	-2.58	103.92	106.78
29	AO	201	PEB	C4B-C3B-C2B	-2.58	103.92	106.78
29	FC	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	FE	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	JF	1002	PEB	CBC-CAC-C2C	-2.58	108.21	112.62
29	JI	1002	PEB	CBC-CAC-C2C	-2.58	108.21	112.62
29	JG	202	PEB	C2A-C1A-NA	2.58	110.50	108.27
29	JQ	202	PEB	C2A-C1A-NA	2.58	110.50	108.27
29	dB	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	dM	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	H4	202	PEB	C2B-C1B-NB	2.58	116.04	110.53
29	Y7	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	Y9	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	LF	1002	PEB	CBC-CAC-C2C	-2.58	108.22	112.62
29	NF	1002	PEB	CBC-CAC-C2C	-2.58	108.22	112.62
29	LI	1002	PEB	CBC-CAC-C2C	-2.58	108.22	112.62
29	NI	1002	PEB	CBC-CAC-C2C	-2.58	108.22	112.62
29	HG	202	PEB	C2A-C1A-NA	2.58	110.50	108.27
29	HQ	202	PEB	C2A-C1A-NA	2.58	110.50	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DF	1002	PEB	CAA-C3A-C4A	-2.58	106.05	112.67
29	DI	1002	PEB	CAA-C3A-C4A	-2.58	106.05	112.67
29	JA	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	WB	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	WM	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	JN	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	CD	203	PEB	CHA-C1B-NB	-2.58	119.53	124.93
29	cF	201	PEB	C1B-C2B-C3B	-2.58	103.55	106.51
29	cI	201	PEB	C1B-C2B-C3B	-2.58	103.55	106.51
29	hB	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	JJ	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	JL	203	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	hM	201	PEB	OD-C4D-C3D	-2.58	123.61	129.46
29	xL	303	PEB	CHA-C1B-NB	-2.58	119.54	124.93
29	Q2	201	PEB	OD-C4D-ND	-2.58	122.11	125.93
29	FD	202	PEB	C2B-C1B-NB	2.58	116.03	110.53
29	P7	202	PEB	CAB-C3B-C4B	2.58	129.57	125.01
29	P9	202	PEB	CAB-C3B-C4B	2.58	129.57	125.01
29	g7	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	g9	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	EB	201	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	EM	201	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	TI	201	PEB	C1B-C2B-C3B	-2.58	103.55	106.51
29	wL	303	PEB	CHA-C1B-NB	-2.58	119.54	124.93
29	R7	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	c7	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	R9	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	c9	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	eB	202	PEB	O2B-CGB-CBB	2.58	122.31	114.03
29	eM	202	PEB	O2B-CGB-CBB	2.58	122.31	114.03
29	g1	201	PEB	CHB-C4B-NB	-2.58	125.25	128.83
29	gK	201	PEB	CHB-C4B-NB	-2.58	125.25	128.83
29	lB	201	PEB	C1C-CHB-C4B	-2.58	125.73	128.81
29	lM	201	PEB	C1C-CHB-C4B	-2.58	125.73	128.81
29	U7	201	PEB	OA-C1A-C2A	-2.58	124.12	126.17
29	U9	201	PEB	OA-C1A-C2A	-2.58	124.12	126.17
29	aF	203	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	aI	203	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	F9	1002	PEB	CHB-C4B-C3B	-2.58	119.37	125.32
29	K4	203	PEB	CHA-C1B-NB	-2.58	119.54	124.93
29	H7	1002	PEB	CHB-C4B-C3B	-2.58	119.37	125.32
29	H9	1002	PEB	CHB-C4B-C3B	-2.58	119.37	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	i7	202	PEB	CAB-C3B-C4B	2.58	129.57	125.01
29	i9	202	PEB	CAB-C3B-C4B	2.58	129.57	125.01
29	xL	303	PEB	OD-C4D-ND	-2.58	122.11	125.93
29	GD	203	PEB	CHA-C1B-NB	-2.58	119.54	124.93
29	vJ	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	vL	202	PEB	OD-C4D-C3D	-2.58	123.62	129.46
29	XB	202	PEB	C2A-C1A-NA	2.58	110.49	108.27
29	XM	202	PEB	C2A-C1A-NA	2.58	110.49	108.27
31	RP	1001	CYC	C2C-C1C-NC	2.58	110.49	108.27
29	J7	1002	PEB	CHB-C4B-C3B	-2.57	119.37	125.32
29	L7	1002	PEB	CHB-C4B-C3B	-2.57	119.37	125.32
29	c1	201	PEB	CHB-C4B-NB	-2.57	125.25	128.83
29	cK	201	PEB	CHB-C4B-NB	-2.57	125.25	128.83
29	TF	202	PEB	C1B-C2B-C3B	-2.57	103.55	106.51
29	TI	202	PEB	C1B-C2B-C3B	-2.57	103.55	106.51
29	B4	202	PEB	CHC-C4C-C3C	-2.57	125.95	130.34
29	WR	201	PEB	CMA-C2A-C1A	-2.57	106.85	112.40
29	KG	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	KQ	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	mB	203	PEB	O2B-CGB-CBB	2.57	122.30	114.03
29	mM	203	PEB	O2B-CGB-CBB	2.57	122.30	114.03
29	NO	201	PEB	C4B-C3B-C2B	-2.57	103.93	106.78
29	G5	203	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	e7	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	e9	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	kF	203	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	kI	203	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	g7	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	g9	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	SB	201	PEB	C1C-CHB-C4B	-2.57	125.73	128.81
29	SM	201	PEB	C1C-CHB-C4B	-2.57	125.73	128.81
29	N3	201	PEB	C4B-C3B-C2B	-2.57	103.94	106.78
31	TP	1001	CYC	C2C-C1C-NC	2.57	110.49	108.27
29	JB	203	PEB	O2B-CGB-CBB	2.57	122.30	114.03
29	JM	203	PEB	O2B-CGB-CBB	2.57	122.30	114.03
29	T7	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	T9	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	kF	201	PEB	C1B-C2B-C3B	-2.57	103.55	106.51
29	kI	201	PEB	C1B-C2B-C3B	-2.57	103.55	106.51
29	jB	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	jM	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	Q1	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QK	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	h1	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	hK	202	PEB	OD-C4D-C3D	-2.57	123.63	129.46
29	DG	202	PEB	C3B-C4B-NB	2.57	113.79	110.05
29	DQ	202	PEB	C3B-C4B-NB	2.57	113.79	110.05
29	B5	203	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	R1	201	PEB	CHB-C4B-NB	-2.57	125.26	128.83
29	RK	201	PEB	CHB-C4B-NB	-2.57	125.26	128.83
29	JF	1002	PEB	CAA-C3A-C4A	-2.57	106.07	112.67
29	JI	1002	PEB	CAA-C3A-C4A	-2.57	106.07	112.67
29	j1	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	lB	201	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	jK	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	lM	201	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	LB	203	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	LM	203	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	R7	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	e7	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	R9	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	e9	202	PEB	CAB-C3B-C4B	2.57	129.56	125.01
29	HD	202	PEB	CHC-C4C-C3C	-2.57	125.95	130.34
29	DA	201	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	DN	201	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	AM	301	PEB	C2A-C3A-C4A	-2.57	97.49	101.34
29	c7	202	PEB	CAB-C3B-C4B	2.57	129.55	125.01
29	c9	202	PEB	CAB-C3B-C4B	2.57	129.55	125.01
29	Y7	202	PEB	CAB-C3B-C4B	2.57	129.55	125.01
29	Y9	202	PEB	CAB-C3B-C4B	2.57	129.55	125.01
29	S1	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	SK	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	C3	201	PEB	C4B-C3B-C2B	-2.57	103.94	106.78
29	CO	201	PEB	C4B-C3B-C2B	-2.57	103.94	106.78
29	QB	203	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	QM	203	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	LF	1002	PEB	CAA-C3A-C4A	-2.57	106.08	112.67
29	LI	1002	PEB	CAA-C3A-C4A	-2.57	106.08	112.67
29	vJ	202	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	vL	202	PEB	C2A-C1A-NA	2.57	110.49	108.27
29	IG	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	TJ	203	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	TL	203	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	IQ	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b1	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	bK	202	PEB	OD-C4D-C3D	-2.57	123.64	129.46
29	MB	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	MM	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	xJ	303	PEB	CHA-C1B-NB	-2.57	119.56	124.93
29	P7	202	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	R7	203	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	P9	202	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	R9	203	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	WR	202	PEB	CHA-C4A-NA	-2.57	122.15	125.20
29	GB	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	GM	201	PEB	C1C-CHB-C4B	-2.57	125.74	128.81
29	f7	201	PEB	OA-C1A-C2A	-2.57	124.13	126.17
29	f9	201	PEB	OA-C1A-C2A	-2.57	124.13	126.17
29	a7	202	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	a9	202	PEB	OD-C4D-C3D	-2.57	123.65	129.46
29	A1	302	PEB	CHA-C4A-NA	-2.57	122.16	125.20
29	AK	302	PEB	CHA-C4A-NA	-2.57	122.16	125.20
29	OR	201	PEB	CMA-C2A-C1A	-2.56	106.87	112.40
29	mF	201	PEB	C1B-C2B-C3B	-2.56	103.56	106.51
29	mI	201	PEB	C1B-C2B-C3B	-2.56	103.56	106.51
29	O2	201	PEB	CMA-C2A-C1A	-2.56	106.88	112.40
29	T7	202	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	i7	203	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	T9	202	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	i9	203	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	DD	202	PEB	CHC-C4C-C3C	-2.56	125.96	130.34
29	Y7	202	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	e7	203	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	Y9	202	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	e9	203	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	GA	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	GN	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	CC	201	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	CE	201	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	V1	201	PEB	CHB-C4B-NB	-2.56	125.27	128.83
29	VK	201	PEB	CHB-C4B-NB	-2.56	125.27	128.83
29	M3	201	PEB	C4B-C3B-C2B	-2.56	103.95	106.78
29	MO	201	PEB	C4B-C3B-C2B	-2.56	103.95	106.78
29	AB	301	PEB	C2A-C3A-C4A	-2.56	97.50	101.34
29	OB	201	PEB	OD-C4D-C3D	-2.56	123.65	129.46
29	OM	201	PEB	OD-C4D-C3D	-2.56	123.65	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HF	1002	PEB	CAA-C3A-C4A	-2.56	106.09	112.67
29	HI	1002	PEB	CAA-C3A-C4A	-2.56	106.09	112.67
29	KA	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	BG	202	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	KN	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	BQ	202	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	TF	201	PEB	CMB-C2B-C1B	2.56	129.01	125.06
29	d1	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	GB	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	MB	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	dK	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	GM	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	MM	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	XJ	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	XL	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	TF	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	TI	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
30	yJ	302	PUB	C2C-C1C-NC	2.56	113.77	110.05
30	yL	302	PUB	C2C-C1C-NC	2.56	113.77	110.05
29	J9	1002	PEB	CHB-C4B-C3B	-2.56	119.41	125.32
29	iF	201	PEB	C1B-C2B-C3B	-2.56	103.57	106.51
29	iI	201	PEB	C1B-C2B-C3B	-2.56	103.57	106.51
29	IB	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	IM	201	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	U2	202	PEB	CHA-C4A-NA	-2.56	122.16	125.20
29	EA	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	kB	203	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	LG	202	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	kM	203	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	EN	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	LQ	201	PEB	C2A-C1A-NA	2.56	110.48	108.27
29	k7	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	k9	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	b7	201	PEB	OA-C1A-C2A	-2.56	124.14	126.17
29	b9	201	PEB	OA-C1A-C2A	-2.56	124.14	126.17
29	FG	202	PEB	C3B-C4B-NB	2.56	113.77	110.05
29	FQ	202	PEB	C3B-C4B-NB	2.56	113.77	110.05
29	V7	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	V9	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	J4	202	PEB	CHC-C4C-C3C	-2.56	125.97	130.34
29	m1	201	PEB	CHB-C4B-NB	-2.56	125.28	128.83
29	mK	201	PEB	CHB-C4B-NB	-2.56	125.28	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k7	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	k9	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	PF	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	AG	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	PI	203	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	AQ	202	PEB	OD-C4D-C3D	-2.56	123.66	129.46
29	H4	202	PEB	CHC-C4C-C3C	-2.56	125.97	130.34
29	RF	202	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	RI	202	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	AF	305	PEB	OD-C4D-ND	-2.56	122.14	125.93
29	AI	305	PEB	OD-C4D-ND	-2.56	122.14	125.93
29	M2	202	PEB	CHA-C4A-NA	-2.56	122.16	125.20
29	aF	203	PEB	C1B-C2B-C3B	-2.56	103.57	106.51
29	aI	203	PEB	C1B-C2B-C3B	-2.56	103.57	106.51
29	m7	202	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	m9	202	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	eF	203	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	eI	203	PEB	OD-C4D-C3D	-2.56	123.67	129.46
29	S2	202	PEB	CHA-C4A-NA	-2.56	122.17	125.20
29	P2	201	PEB	CMB-C2B-C1B	2.56	129.00	125.06
29	K3	201	PEB	C4B-C3B-C2B	-2.56	103.95	106.78
29	KO	201	PEB	C4B-C3B-C2B	-2.56	103.95	106.78
29	G4	203	PEB	CHA-C1B-NB	-2.56	119.59	124.93
29	i7	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	i9	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	YF	203	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	YI	203	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	RR	202	PEB	CMB-C2B-C1B	2.55	129.00	125.06
29	VB	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	VM	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	FF	1002	PEB	CAA-C3A-C4A	-2.55	106.11	112.67
29	FI	1002	PEB	CAA-C3A-C4A	-2.55	106.11	112.67
29	Z1	203	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	CG	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	ZK	203	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	CQ	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	cF	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	GG	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	cI	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	GQ	202	PEB	OD-C4D-C3D	-2.55	123.67	129.46
29	VF	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	VI	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O1	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	a7	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	a9	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	OK	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	G8	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	JB	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	JM	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	Q2	202	PEB	CHA-C4A-NA	-2.55	122.17	125.20
29	UR	202	PEB	CHA-C4A-NA	-2.55	122.17	125.20
29	eF	201	PEB	C1B-C2B-C3B	-2.55	103.58	106.51
29	eI	201	PEB	C1B-C2B-C3B	-2.55	103.58	106.51
29	e1	201	PEB	CHB-C4B-NB	-2.55	125.29	128.83
29	eK	201	PEB	CHB-C4B-NB	-2.55	125.29	128.83
29	LG	201	PEB	OD-C4D-ND	-2.55	122.15	125.93
29	MQ	402	PEB	OD-C4D-ND	-2.55	122.15	125.93
29	EG	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	EQ	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	I3	201	PEB	C4B-C3B-C2B	-2.55	103.96	106.78
29	IO	201	PEB	C4B-C3B-C2B	-2.55	103.96	106.78
29	iF	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	iI	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	T1	201	PEB	CHB-C4B-NB	-2.55	125.29	128.83
29	TK	201	PEB	CHB-C4B-NB	-2.55	125.29	128.83
29	U1	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	f1	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	UK	203	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	fK	202	PEB	OD-C4D-C3D	-2.55	123.68	129.46
29	BD	202	PEB	CHC-C4C-C3C	-2.55	125.99	130.34
29	MG	404	PEB	CBC-CAC-C2C	-2.55	108.27	112.62
29	WB	201	PEB	C1C-CHB-C4B	-2.55	125.76	128.81
29	WM	201	PEB	C1C-CHB-C4B	-2.55	125.76	128.81
29	HB	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	HM	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	CB	201	PEB	C1C-CHB-C4B	-2.55	125.76	128.81
29	CM	201	PEB	C1C-CHB-C4B	-2.55	125.76	128.81
29	IC	201	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	IE	201	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	V2	202	PEB	CMB-C2B-C1B	2.55	128.99	125.06
29	MA	401	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	mB	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	mM	203	PEB	C2A-C1A-NA	2.55	110.47	108.27
31	lP	1001	CYC	C2C-C1C-NC	2.55	110.47	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T7	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	T9	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	gF	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	gI	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	D7	1002	PEB	OD-C4D-ND	-2.55	122.16	125.93
29	D9	1002	PEB	OD-C4D-ND	-2.55	122.16	125.93
29	MG	404	PEB	OD-C4D-ND	-2.55	122.16	125.93
29	ID	201	PEB	C2B-C1B-NB	2.55	115.97	110.53
29	PB	202	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	PM	202	PEB	C2A-C1A-NA	2.55	110.47	108.27
29	RF	202	PEB	C1B-C2B-C3B	-2.55	103.58	106.51
29	RI	202	PEB	C1B-C2B-C3B	-2.55	103.58	106.51
29	GC	201	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	GE	201	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	m7	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	m9	203	PEB	OD-C4D-C3D	-2.55	123.69	129.46
29	YF	201	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	YI	201	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	C5	203	PEB	OD-C4D-C3D	-2.54	123.69	129.46
29	V7	202	PEB	OD-C4D-C3D	-2.54	123.69	129.46
29	C8	203	PEB	OD-C4D-C3D	-2.54	123.69	129.46
29	V9	202	PEB	OD-C4D-C3D	-2.54	123.69	129.46
29	KC	202	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	KE	202	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	k1	201	PEB	CHB-C4B-NB	-2.54	125.30	128.83
29	kK	201	PEB	CHB-C4B-NB	-2.54	125.30	128.83
29	QR	202	PEB	CBC-CAC-C2C	-2.54	108.28	112.62
29	VR	202	PEB	CMB-C2B-C1B	2.54	128.98	125.06
29	MQ	406	PEB	CBC-CAC-C2C	-2.54	108.28	112.62
29	kF	203	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	kI	203	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	RB	203	PEB	C2A-C1A-NA	2.54	110.47	108.27
29	DJ	202	PEB	C2A-C1A-NA	2.54	110.47	108.27
29	DL	202	PEB	C2A-C1A-NA	2.54	110.47	108.27
29	RM	203	PEB	C2A-C1A-NA	2.54	110.47	108.27
29	eF	203	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	eI	203	PEB	C1B-C2B-C3B	-2.54	103.59	106.51
29	b1	201	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	J5	201	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	L5	201	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	bK	201	PEB	OD-C4D-C3D	-2.54	123.70	129.46
29	LD	202	PEB	CHC-C4C-C3C	-2.54	126.00	130.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SR	201	PEB	C3B-C4B-NB	2.54	113.75	110.05
29	O7	201	PEB	OA-C1A-C2A	-2.54	124.15	126.17
29	O9	201	PEB	OA-C1A-C2A	-2.54	124.15	126.17
29	cB	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	cM	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	MN	401	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	JD	202	PEB	CHC-C4C-C3C	-2.54	126.00	130.34
29	mF	203	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	mI	203	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	F4	202	PEB	CHC-C4C-C3C	-2.54	126.00	130.34
29	Z1	202	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	h1	201	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	ZK	202	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	hK	201	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	E3	201	PEB	C4B-C3B-C2B	-2.54	103.97	106.78
29	EO	201	PEB	C4B-C3B-C2B	-2.54	103.97	106.78
29	GD	203	PEB	CMD-C2D-C3D	2.54	133.64	130.06
29	X2	201	PEB	CMB-C2B-C1B	2.54	128.97	125.06
29	wJ	303	PEB	OD-C4D-ND	-2.54	122.17	125.93
29	tJ	202	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	tL	202	PEB	C2A-C1A-NA	2.54	110.46	108.27
31	vP	1001	CYC	C2C-C1C-NC	2.54	110.46	108.27
29	Q7	201	PEB	OA-C1A-C2A	-2.54	124.16	126.17
29	Q9	201	PEB	OA-C1A-C2A	-2.54	124.16	126.17
31	yP	1001	CYC	CHB-C1B-C2B	-2.54	121.92	126.95
29	P1	201	PEB	CHB-C4B-NB	-2.54	125.31	128.83
29	PK	201	PEB	CHB-C4B-NB	-2.54	125.31	128.83
29	pJ	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	pL	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	MR	202	PEB	CBC-CAC-C2C	-2.54	108.29	112.62
29	IB	201	PEB	C1C-CHB-C4B	-2.54	125.78	128.81
29	IM	201	PEB	C1C-CHB-C4B	-2.54	125.78	128.81
30	AB	305	PUB	OA-C1A-NA	-2.54	122.17	125.93
29	AC	201	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	AE	201	PEB	OD-C4D-C3D	-2.54	123.71	129.46
29	PF	203	PEB	C1B-C2B-C3B	-2.54	103.60	106.51
29	PI	203	PEB	C1B-C2B-C3B	-2.54	103.60	106.51
29	FJ	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	FL	203	PEB	C2A-C1A-NA	2.54	110.46	108.27
29	EC	201	PEB	OD-C4D-C3D	-2.54	123.72	129.46
29	EE	201	PEB	OD-C4D-C3D	-2.54	123.72	129.46
29	aB	201	PEB	C1C-CHB-C4B	-2.54	125.78	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aM	201	PEB	C1C-CHB-C4B	-2.54	125.78	128.81
29	VF	203	PEB	C1B-C2B-C3B	-2.54	103.60	106.51
29	VI	203	PEB	C1B-C2B-C3B	-2.54	103.60	106.51
29	a1	201	PEB	CHB-C4B-NB	-2.54	125.31	128.83
29	aK	201	PEB	CHB-C4B-NB	-2.54	125.31	128.83
29	c7	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	c9	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	JG	201	PEB	OD-C4D-ND	-2.53	122.17	125.93
29	JQ	201	PEB	OD-C4D-ND	-2.53	122.17	125.93
29	AA	201	PEB	C2A-C1A-NA	2.53	110.46	108.27
29	AN	201	PEB	C2A-C1A-NA	2.53	110.46	108.27
29	g7	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	g9	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	d1	201	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	dK	201	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	C4	201	PEB	C2B-C1B-NB	2.53	115.94	110.53
29	LC	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	LE	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	B8	203	PEB	C2A-C1A-NA	2.53	110.46	108.27
31	DK	1001	CYC	CHA-C1A-NA	-2.53	125.31	128.83
29	U1	202	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	UK	202	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	D4	202	PEB	CHC-C4C-C3C	-2.53	126.02	130.34
29	I5	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	A5	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	I8	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	A8	203	PEB	OD-C4D-C3D	-2.53	123.72	129.46
29	F5	203	PEB	C2A-C1A-NA	2.53	110.45	108.27
29	F8	203	PEB	C2A-C1A-NA	2.53	110.45	108.27
29	N2	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	FC	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	FE	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	JG	202	PEB	C3B-C4B-NB	2.53	113.73	110.05
29	JQ	202	PEB	C3B-C4B-NB	2.53	113.73	110.05
29	J8	201	PEB	OD-C4D-C3D	-2.53	123.73	129.46
29	MD	201	PEB	CAC-CBC-CGC	-2.53	106.67	113.76
29	J5	201	PEB	CMA-C2A-C1A	-2.53	106.95	112.40
29	J8	201	PEB	CMA-C2A-C1A	-2.53	106.95	112.40
29	E4	201	PEB	C2B-C1B-NB	2.53	115.93	110.53
29	dD	401	PEB	C2B-C1B-NB	2.53	115.93	110.53
29	N7	1002	PEB	OD-C4D-ND	-2.53	122.18	125.93
29	N9	1002	PEB	OD-C4D-ND	-2.53	122.18	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HC	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	HE	202	PEB	CMB-C2B-C1B	2.53	128.96	125.06
29	LG	202	PEB	C3B-C4B-NB	2.53	113.73	110.05
29	LQ	201	PEB	C3B-C4B-NB	2.53	113.73	110.05
29	iB	203	PEB	C2A-C1A-NA	2.53	110.45	108.27
29	iM	203	PEB	C2A-C1A-NA	2.53	110.45	108.27
31	PP	1001	CYC	C2C-C1C-NC	2.53	110.45	108.27
29	P7	203	PEB	OD-C4D-C3D	-2.53	123.73	129.46
29	P9	203	PEB	OD-C4D-C3D	-2.53	123.73	129.46
29	HG	202	PEB	C3B-C4B-NB	2.53	113.73	110.05
29	HQ	202	PEB	C3B-C4B-NB	2.53	113.73	110.05
30	xJ	304	PUB	C2C-C1C-NC	2.53	113.73	110.05
29	l7	201	PEB	OA-C1A-NA	2.53	128.00	124.94
29	l9	201	PEB	OA-C1A-NA	2.53	128.00	124.94
29	MQ	406	PEB	OD-C4D-ND	-2.53	122.19	125.93
29	O2	202	PEB	CHA-C4A-NA	-2.53	122.20	125.20
29	G5	201	PEB	OD-C4D-C3D	-2.53	123.73	129.46
29	M4	201	PEB	CAC-CBC-CGC	-2.53	106.67	113.76
29	Q1	201	PEB	OD-C4D-C3D	-2.53	123.74	129.46
29	QK	201	PEB	OD-C4D-C3D	-2.53	123.74	129.46
31	iP	1001	CYC	C2C-C1C-NC	2.53	110.45	108.27
29	b7	202	PEB	CHA-C1B-NB	-2.53	119.65	124.93
29	b9	202	PEB	CHA-C1B-NB	-2.53	119.65	124.93
29	j1	201	PEB	OD-C4D-C3D	-2.53	123.74	129.46
29	jK	201	PEB	OD-C4D-C3D	-2.53	123.74	129.46
29	CD	201	PEB	C2B-C1B-NB	2.52	115.92	110.53
29	H5	201	PEB	OD-C4D-C3D	-2.52	123.74	129.46
29	NR	202	PEB	CMB-C2B-C1B	2.52	128.95	125.06
29	l1	201	PEB	OD-C4D-C3D	-2.52	123.74	129.46
29	lK	201	PEB	OD-C4D-C3D	-2.52	123.74	129.46
29	W7	201	PEB	OA-C1A-NA	2.52	128.00	124.94
29	W9	201	PEB	OA-C1A-NA	2.52	128.00	124.94
29	F7	1002	PEB	OD-C4D-ND	-2.52	122.19	125.93
29	OB	201	PEB	C1C-CHB-C4B	-2.52	125.80	128.81
29	OM	201	PEB	C1C-CHB-C4B	-2.52	125.80	128.81
29	KC	201	PEB	CMB-C2B-C1B	2.52	128.95	125.06
29	KE	201	PEB	CMB-C2B-C1B	2.52	128.95	125.06
29	L8	201	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	U2	202	PEB	CHC-C1D-ND	-2.52	111.02	113.95
30	AM	305	PUB	CAC-CBC-CGC	-2.52	108.17	113.60
31	WP	1001	CYC	CHB-C1B-C2B	-2.52	121.95	126.95
29	bJ	203	PEB	C2A-C1A-NA	2.52	110.45	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bL	203	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	RB	203	PEB	CHC-C1D-ND	-2.52	111.02	113.95
29	RM	203	PEB	CHC-C1D-ND	-2.52	111.02	113.95
29	J9	1002	PEB	OD-C4D-ND	-2.52	122.19	125.93
29	FD	202	PEB	CHC-C4C-C3C	-2.52	126.04	130.34
29	K4	201	PEB	CAC-CBC-CGC	-2.52	106.69	113.76
29	i1	201	PEB	CHB-C4B-NB	-2.52	125.33	128.83
29	iK	201	PEB	CHB-C4B-NB	-2.52	125.33	128.83
29	NB	202	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	ZJ	203	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	rJ	203	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	ZL	203	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	rL	203	PEB	C2A-C1A-NA	2.52	110.45	108.27
29	NM	202	PEB	C2A-C1A-NA	2.52	110.45	108.27
31	gP	1001	CYC	C2C-C1C-NC	2.52	110.45	108.27
29	XR	202	PEB	CMB-C2B-C1B	2.52	128.94	125.06
29	F9	1002	PEB	OD-C4D-ND	-2.52	122.20	125.93
29	mF	203	PEB	C1B-C2B-C3B	-2.52	103.61	106.51
29	mI	203	PEB	C1B-C2B-C3B	-2.52	103.61	106.51
31	GP	1001	CYC	C2C-C1C-NC	2.52	110.44	108.27
31	VP	1001	CYC	C2B-C1B-NB	2.52	110.68	106.99
29	GD	201	PEB	CAC-CBC-CGC	-2.52	106.70	113.76
30	MA	402	PUB	OA-C1A-NA	-2.52	122.20	125.93
29	f1	201	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	G8	201	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	H8	201	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	fK	201	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	G4	201	PEB	C2B-C1B-NB	2.52	115.91	110.53
29	GD	201	PEB	C2B-C1B-NB	2.52	115.91	110.53
29	iF	203	PEB	C1B-C2B-C3B	-2.52	103.62	106.51
29	iI	203	PEB	C1B-C2B-C3B	-2.52	103.62	106.51
29	WR	202	PEB	CBC-CAC-C2C	-2.52	108.32	112.62
29	K5	203	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	K8	203	PEB	OD-C4D-C3D	-2.52	123.75	129.46
29	TB	203	PEB	C2A-C1A-NA	2.52	110.44	108.27
29	LJ	202	PEB	C2A-C1A-NA	2.52	110.44	108.27
29	LL	202	PEB	C2A-C1A-NA	2.52	110.44	108.27
29	TM	203	PEB	C2A-C1A-NA	2.52	110.44	108.27
31	tP	1001	CYC	C2C-C1C-NC	2.52	110.44	108.27
30	AB	305	PUB	CAC-CBC-CGC	-2.52	108.18	113.60
29	cF	202	PEB	C1B-C2B-C3B	-2.52	103.62	106.51
29	cI	202	PEB	C1B-C2B-C3B	-2.52	103.62	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	PR	201	PEB	CMB-C2B-C1B	2.52	128.94	125.06
29	W1	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	IG	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	WK	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	IQ	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	D4	202	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	DD	202	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	C4	201	PEB	CAC-CBC-CGC	-2.52	106.70	113.76
29	Z7	202	PEB	CHA-C1B-NB	-2.52	119.67	124.93
29	Z9	202	PEB	CHA-C1B-NB	-2.52	119.67	124.93
29	S1	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	F5	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	F8	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	SK	201	PEB	OD-C4D-C3D	-2.52	123.76	129.46
29	G3	201	PEB	C4B-C3B-C2B	-2.52	104.00	106.78
29	GO	201	PEB	C4B-C3B-C2B	-2.52	104.00	106.78
29	J7	1002	PEB	OD-C4D-ND	-2.52	122.20	125.93
29	L4	202	PEB	CHC-C4C-C3C	-2.52	126.05	130.34
31	KP	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
29	BG	202	PEB	C3B-C4B-NB	2.51	113.71	110.05
29	BQ	202	PEB	C3B-C4B-NB	2.51	113.71	110.05
29	O1	201	PEB	OD-C4D-C3D	-2.51	123.76	129.46
29	OK	201	PEB	OD-C4D-C3D	-2.51	123.76	129.46
29	G4	201	PEB	CAC-CBC-CGC	-2.51	106.71	113.76
29	A1	303	PEB	CBC-CAC-C2C	-2.51	108.33	112.62
29	AK	303	PEB	CBC-CAC-C2C	-2.51	108.33	112.62
29	eB	202	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	eM	202	PEB	C2A-C1A-NA	2.51	110.44	108.27
31	eP	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
29	Q1	202	PEB	CMB-C2B-C1B	2.51	128.94	125.06
29	W1	202	PEB	CMB-C2B-C1B	2.51	128.94	125.06
29	QK	202	PEB	CMB-C2B-C1B	2.51	128.94	125.06
29	WK	202	PEB	CMB-C2B-C1B	2.51	128.94	125.06
29	d7	202	PEB	CHA-C1B-NB	-2.51	119.68	124.93
29	d9	202	PEB	CHA-C1B-NB	-2.51	119.68	124.93
29	Z7	201	PEB	OA-C1A-NA	2.51	127.98	124.94
29	Z9	201	PEB	OA-C1A-NA	2.51	127.98	124.94
29	BJ	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	BL	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	wL	303	PEB	OD-C4D-ND	-2.51	122.21	125.93
30	AM	305	PUB	OA-C1A-NA	-2.51	122.21	125.93
29	h7	201	PEB	OA-C1A-NA	2.51	127.98	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	h9	201	PEB	OA-C1A-NA	2.51	127.98	124.94
29	l1	202	PEB	CMB-C2B-C1B	2.51	128.93	125.06
29	lK	202	PEB	CMB-C2B-C1B	2.51	128.93	125.06
29	TR	202	PEB	CMB-C2B-C1B	2.51	128.93	125.06
29	B5	201	PEB	OD-C4D-C3D	-2.51	123.77	129.46
29	TJ	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	TL	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
31	EP	1001	CYC	C2C-C1C-NC	2.51	110.44	108.27
29	fB	201	PEB	C1C-CHB-C4B	-2.51	125.81	128.81
29	fM	201	PEB	C1C-CHB-C4B	-2.51	125.81	128.81
29	L9	1002	PEB	OD-C4D-ND	-2.51	122.21	125.93
29	R2	202	PEB	CMB-C2B-C1B	2.51	128.93	125.06
29	K4	203	PEB	CMD-C2D-C3D	2.51	133.60	130.06
29	U7	202	PEB	CHA-C1B-NB	-2.51	119.68	124.93
29	U9	202	PEB	CHA-C1B-NB	-2.51	119.68	124.93
29	LQ	202	PEB	CHA-C1B-NB	-2.51	119.68	124.93
31	D1	1001	CYC	CHA-C1A-NA	-2.51	125.35	128.83
29	T2	202	PEB	CMB-C2B-C1B	2.51	128.93	125.06
29	HJ	202	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	HL	202	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	ID	201	PEB	CAC-CBC-CGC	-2.51	106.72	113.76
29	F3	201	PEB	OD-C4D-C3D	-2.51	123.78	129.46
29	FO	201	PEB	OD-C4D-C3D	-2.51	123.78	129.46
29	PB	202	PEB	CHC-C1D-ND	-2.51	111.03	113.95
29	PM	202	PEB	CHC-C1D-ND	-2.51	111.03	113.95
30	MN	402	PUB	OA-C1A-NA	-2.51	122.21	125.93
30	xL	304	PUB	CBA-CAA-C3A	-2.51	109.17	112.98
29	dJ	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
29	dL	203	PEB	C2A-C1A-NA	2.51	110.44	108.27
30	wL	304	PUB	CBA-CAA-C3A	-2.51	109.17	112.98
29	TB	203	PEB	CHC-C1D-ND	-2.51	111.03	113.95
29	TM	203	PEB	CHC-C1D-ND	-2.51	111.03	113.95
31	YP	1000	CYC	C1B-NB-C4B	-2.51	107.48	110.67
29	I4	201	PEB	C2B-C1B-NB	2.51	115.88	110.53
30	A1	304	PUB	CAC-C2C-C1C	2.51	129.44	125.01
30	AK	304	PUB	CAC-C2C-C1C	2.51	129.44	125.01
29	BG	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	DG	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	BQ	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	DQ	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	gB	203	PEB	C2A-C1A-NA	2.51	110.43	108.27
29	gM	203	PEB	C2A-C1A-NA	2.51	110.43	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KD	201	PEB	CAC-CBC-CGC	-2.51	106.73	113.76
30	xL	304	PUB	C2C-C1C-NC	2.51	113.69	110.05
29	A1	301	PEB	C2A-C1A-NA	2.51	110.43	108.27
29	AK	301	PEB	C2A-C1A-NA	2.51	110.43	108.27
31	AP	1001	CYC	C2C-C1C-NC	2.51	110.43	108.27
31	CP	1001	CYC	C2C-C1C-NC	2.51	110.43	108.27
29	FG	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	FQ	201	PEB	OD-C4D-ND	-2.51	122.22	125.93
29	YF	203	PEB	C1B-C2B-C3B	-2.50	103.63	106.51
29	YI	203	PEB	C1B-C2B-C3B	-2.50	103.63	106.51
31	1P	1002	CYC	C2B-C1B-NB	2.50	110.65	106.99
29	XB	202	PEB	CHC-C1D-ND	-2.50	111.04	113.95
29	XM	202	PEB	CHC-C1D-ND	-2.50	111.04	113.95
29	MD	201	PEB	C2B-C1B-NB	2.50	115.87	110.53
29	BC	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
29	BE	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
29	BB	301	PEB	C2A-C3A-C4A	-2.50	97.59	101.34
29	BM	301	PEB	C2A-C3A-C4A	-2.50	97.59	101.34
29	S1	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
29	SK	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
30	AF	302	PUB	C1D-CHC-C4C	-2.50	107.92	113.37
30	AI	302	PUB	C1D-CHC-C4C	-2.50	107.92	113.37
29	M2	202	PEB	CBC-CAC-C2C	-2.50	108.35	112.62
29	GG	201	PEB	OD-C4D-C3D	-2.50	123.79	129.46
29	GQ	201	PEB	OD-C4D-C3D	-2.50	123.79	129.46
29	b1	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
29	bK	202	PEB	CMB-C2B-C1B	2.50	128.92	125.06
29	CD	201	PEB	CAC-CBC-CGC	-2.50	106.74	113.76
29	h7	202	PEB	CHA-C1B-NB	-2.50	119.70	124.93
29	h9	202	PEB	CHA-C1B-NB	-2.50	119.70	124.93
29	RJ	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
29	RL	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
29	M4	201	PEB	C2B-C1B-NB	2.50	115.87	110.53
29	O7	202	PEB	CHA-C1B-NB	-2.50	119.70	124.93
29	O9	202	PEB	CHA-C1B-NB	-2.50	119.70	124.93
29	DB	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
29	DM	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
31	1P	1002	CYC	C1B-NB-C4B	-2.50	107.48	110.67
29	I4	201	PEB	CAC-CBC-CGC	-2.50	106.75	113.76
29	IJ	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
29	IL	203	PEB	C2A-C1A-NA	2.50	110.43	108.27
29	H7	1002	PEB	OD-C4D-ND	-2.50	122.23	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	H9	1002	PEB	OD-C4D-ND	-2.50	122.23	125.93
29	F4	202	PEB	OD-C4D-C3D	-2.50	123.80	129.46
29	F3	202	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	FO	202	PEB	CHC-C1D-ND	-2.50	111.05	113.95
31	xP	1001	CYC	C2B-C1B-NB	2.50	110.65	106.99
29	l7	202	PEB	CHA-C1B-NB	-2.50	119.71	124.93
29	l9	202	PEB	CHA-C1B-NB	-2.50	119.71	124.93
29	K4	201	PEB	C2B-C1B-NB	2.50	115.86	110.53
29	FB	203	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	FM	203	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	LD	202	PEB	OD-C4D-C3D	-2.50	123.80	129.46
30	wJ	304	PUB	CBA-CAA-C3A	-2.50	109.19	112.98
29	gF	203	PEB	C1B-C2B-C3B	-2.50	103.64	106.51
29	gI	203	PEB	C1B-C2B-C3B	-2.50	103.64	106.51
31	cP	1001	CYC	C2C-C1C-NC	2.50	110.43	108.27
29	U1	203	PEB	CMB-C2B-C1B	2.50	128.91	125.06
29	UK	203	PEB	CMB-C2B-C1B	2.50	128.91	125.06
29	gB	203	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	gM	203	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	mF	201	PEB	OD-C4D-C3D	-2.50	123.80	129.46
29	mI	201	PEB	OD-C4D-C3D	-2.50	123.80	129.46
29	UR	202	PEB	CHC-C1D-ND	-2.50	111.05	113.95
29	VF	201	PEB	OD-C4D-C3D	-2.50	123.81	129.46
29	VI	201	PEB	OD-C4D-C3D	-2.50	123.81	129.46
29	B8	201	PEB	OD-C4D-C3D	-2.50	123.81	129.46
29	mB	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	mM	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	gF	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	gI	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	ZB	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	ZM	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
31	iP	1001	CYC	C1B-CHB-C4A	2.49	134.17	128.08
29	EG	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	EQ	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	j1	202	PEB	CMB-C2B-C1B	2.49	128.90	125.06
29	jK	202	PEB	CMB-C2B-C1B	2.49	128.90	125.06
29	S7	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	j7	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	S9	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	j9	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	PF	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	PI	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NB	202	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	VB	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	NM	202	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	VM	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	Q2	202	PEB	CBC-CAC-C2C	-2.49	108.37	112.62
29	SR	202	PEB	CBC-CAC-C2C	-2.49	108.37	112.62
29	W7	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	W9	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	d7	201	PEB	OA-C1A-NA	2.49	127.96	124.94
29	d9	201	PEB	OA-C1A-NA	2.49	127.96	124.94
29	E4	201	PEB	CAC-CBC-CGC	-2.49	106.77	113.76
29	HG	203	PEB	CHA-C1B-NB	-2.49	119.72	124.93
31	rP	1001	CYC	C2C-C1C-NC	2.49	110.42	108.27
29	L4	202	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	eF	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	eI	201	PEB	OD-C4D-C3D	-2.49	123.81	129.46
29	B3	202	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	b7	201	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	b9	201	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	JB	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	JM	203	PEB	CHC-C1D-ND	-2.49	111.05	113.95
29	BO	202	PEB	CHC-C1D-ND	-2.49	111.05	113.95
30	wJ	304	PUB	C2C-C1C-NC	2.49	113.67	110.05
29	J4	202	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	P2	202	PEB	CAC-CBC-CGC	-2.49	106.78	113.76
29	JD	202	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	AG	201	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	AQ	201	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	JJ	203	PEB	C2A-C1A-NA	2.49	110.42	108.27
29	JL	203	PEB	C2A-C1A-NA	2.49	110.42	108.27
29	NR	203	PEB	CAC-CBC-CGC	-2.49	106.78	113.76
29	B4	202	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	f7	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
29	f9	202	PEB	CHA-C1B-NB	-2.49	119.72	124.93
30	yL	303	PUB	CBA-CAA-C3A	-2.49	109.20	112.98
29	L7	1002	PEB	CAA-C3A-C2A	-2.49	108.04	114.26
29	FD	202	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	HG	201	PEB	OD-C4D-ND	-2.49	122.24	125.93
29	HQ	201	PEB	OD-C4D-ND	-2.49	122.24	125.93
29	S7	201	PEB	OA-C1A-NA	2.49	127.96	124.94
29	S9	201	PEB	OA-C1A-NA	2.49	127.96	124.94
29	N7	1002	PEB	CAA-C3A-C2A	-2.49	108.04	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	N9	1002	PEB	CAA-C3A-C2A	-2.49	108.04	114.26
29	fJ	203	PEB	C2A-C1A-NA	2.49	110.42	108.27
29	fL	203	PEB	C2A-C1A-NA	2.49	110.42	108.27
29	H4	202	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	CG	201	PEB	OD-C4D-C3D	-2.49	123.82	129.46
29	CQ	201	PEB	OD-C4D-C3D	-2.49	123.82	129.46
30	xJ	304	PUB	CBA-CAA-C3A	-2.49	109.20	112.98
29	HB	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	HM	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	UR	202	PEB	OD-C4D-ND	-2.49	122.25	125.93
29	S2	202	PEB	CBC-CAC-C2C	-2.49	108.38	112.62
29	FG	203	PEB	CHA-C1B-NB	-2.49	119.73	124.93
29	cB	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	cM	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	O2	202	PEB	CBC-CAC-C2C	-2.49	108.38	112.62
29	U2	202	PEB	CBC-CAC-C2C	-2.49	108.38	112.62
29	dD	401	PEB	CAC-CBC-CGC	-2.49	106.79	113.76
31	H1	1001	CYC	CHA-C1A-NA	-2.49	125.38	128.83
29	BD	202	PEB	OD-C4D-C3D	-2.49	123.83	129.46
29	C4	203	PEB	CMD-C2D-C3D	2.49	133.57	130.06
29	KD	201	PEB	C2B-C1B-NB	2.49	115.84	110.53
31	GF	1001	CYC	CBD-CAD-C3D	-2.49	108.38	112.62
31	GI	1001	CYC	CBD-CAD-C3D	-2.49	108.38	112.62
30	QB	201	PUB	OA-C1A-NA	-2.49	122.25	125.93
30	QM	201	PUB	OA-C1A-NA	-2.49	122.25	125.93
29	H5	203	PEB	C2A-C1A-NA	2.49	110.42	108.27
29	PR	202	PEB	CAC-CBC-CGC	-2.49	106.79	113.76
29	Q7	201	PEB	OA-C1A-NA	2.49	127.95	124.94
29	Q9	201	PEB	OA-C1A-NA	2.49	127.95	124.94
29	DB	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	DM	203	PEB	CHC-C1D-ND	-2.49	111.06	113.95
29	A5	202	PEB	OD-C4D-C3D	-2.49	123.83	129.46
29	A8	202	PEB	OD-C4D-C3D	-2.49	123.83	129.46
29	YF	201	PEB	OD-C4D-C3D	-2.49	123.83	129.46
29	YI	201	PEB	OD-C4D-C3D	-2.49	123.83	129.46
29	L9	1002	PEB	CAA-C3A-C2A	-2.48	108.05	114.26
31	J1	1001	CYC	C1A-C2A-C3A	-2.48	104.03	106.78
31	JK	1001	CYC	C1A-C2A-C3A	-2.48	104.03	106.78
29	cF	201	PEB	OD-C4D-C3D	-2.48	123.83	129.46
29	cI	201	PEB	OD-C4D-C3D	-2.48	123.83	129.46
31	IF	1001	CYC	CBD-CAD-C3D	-2.48	108.38	112.62
31	II	1001	CYC	CBD-CAD-C3D	-2.48	108.38	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	RP	1001	CYC	C1B-CHB-C4A	2.48	134.15	128.08
29	aF	201	PEB	OD-C4D-C3D	-2.48	123.83	129.46
29	aI	201	PEB	OD-C4D-C3D	-2.48	123.83	129.46
29	O7	201	PEB	OA-C1A-NA	2.48	127.95	124.94
29	U7	201	PEB	OA-C1A-NA	2.48	127.95	124.94
29	O9	201	PEB	OA-C1A-NA	2.48	127.95	124.94
29	U9	201	PEB	OA-C1A-NA	2.48	127.95	124.94
29	HD	202	PEB	OD-C4D-C3D	-2.48	123.83	129.46
29	RR	203	PEB	CAC-CBC-CGC	-2.48	106.80	113.76
29	XJ	203	PEB	C2A-C1A-NA	2.48	110.41	108.27
29	XL	203	PEB	C2A-C1A-NA	2.48	110.41	108.27
31	mP	1001	CYC	C2C-C1C-NC	2.48	110.41	108.27
29	D7	1002	PEB	CAA-C3A-C2A	-2.48	108.06	114.26
29	D9	1002	PEB	CAA-C3A-C2A	-2.48	108.06	114.26
29	L7	1002	PEB	OD-C4D-ND	-2.48	122.25	125.93
29	HQ	203	PEB	CHA-C1B-NB	-2.48	119.74	124.93
31	JP	1001	CYC	C1B-CHB-C4A	2.48	134.15	128.08
29	iF	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	kF	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	iI	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	kI	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	J7	1002	PEB	CAA-C3A-C2A	-2.48	108.06	114.26
29	Z1	203	PEB	CMB-C2B-C1B	2.48	128.89	125.06
29	AC	203	PEB	CMB-C2B-C1B	2.48	128.89	125.06
29	AE	203	PEB	CMB-C2B-C1B	2.48	128.89	125.06
29	ZK	203	PEB	CMB-C2B-C1B	2.48	128.89	125.06
31	NK	1001	CYC	CHA-C1A-NA	-2.48	125.38	128.83
29	iF	203	PEB	CHA-C1B-NB	-2.48	119.74	124.93
29	iI	203	PEB	CHA-C1B-NB	-2.48	119.74	124.93
31	YP	1000	CYC	C2B-C1B-NB	2.48	110.62	106.99
29	V2	203	PEB	CAC-CBC-CGC	-2.48	106.80	113.76
29	gF	203	PEB	CHA-C1B-NB	-2.48	119.74	124.93
29	gI	203	PEB	CHA-C1B-NB	-2.48	119.74	124.93
31	HK	1001	CYC	C1A-C2A-C3A	-2.48	104.04	106.78
31	AP	1001	CYC	C1B-CHB-C4A	2.48	134.14	128.08
31	pP	1001	CYC	C1B-CHB-C4A	2.48	134.14	128.08
31	gP	1001	CYC	C1B-CHB-C4A	2.48	134.14	128.08
29	NJ	203	PEB	C2A-C1A-NA	2.48	110.41	108.27
29	NL	203	PEB	C2A-C1A-NA	2.48	110.41	108.27
31	CF	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
31	CI	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
31	KI	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	E4	203	PEB	CMD-C2D-C3D	2.48	133.56	130.06
29	f7	201	PEB	OA-C1A-NA	2.48	127.94	124.94
29	f9	201	PEB	OA-C1A-NA	2.48	127.94	124.94
31	F1	1001	CYC	CHA-C1A-NA	-2.48	125.39	128.83
31	FK	1001	CYC	CHA-C1A-NA	-2.48	125.39	128.83
29	iB	203	PEB	CHC-C1D-ND	-2.48	111.07	113.95
29	iM	203	PEB	CHC-C1D-ND	-2.48	111.07	113.95
31	EF	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
31	EI	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
29	mF	203	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	BG	203	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	mI	203	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	FQ	203	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	KG	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	KQ	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
29	TI	201	PEB	OD-C4D-C3D	-2.48	123.84	129.46
31	KF	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
29	N2	203	PEB	CAC-CBC-CGC	-2.48	106.81	113.76
31	JP	1001	CYC	C2C-C1C-NC	2.48	110.41	108.27
29	W2	202	PEB	CHA-C4A-NA	-2.48	122.26	125.20
29	H3	202	PEB	CHC-C1D-ND	-2.48	111.07	113.95
29	LB	203	PEB	CHC-C1D-ND	-2.48	111.07	113.95
29	LM	203	PEB	CHC-C1D-ND	-2.48	111.07	113.95
29	HO	202	PEB	CHC-C1D-ND	-2.48	111.07	113.95
29	A1	302	PEB	OD-C4D-C3D	-2.48	123.85	129.46
29	AK	302	PEB	OD-C4D-C3D	-2.48	123.85	129.46
31	N1	1001	CYC	CHA-C1A-NA	-2.48	125.39	128.83
29	B5	203	PEB	CHA-C1B-NB	-2.48	119.75	124.93
31	MF	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
31	MI	1001	CYC	CBD-CAD-C3D	-2.48	108.39	112.62
29	Q7	202	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	Q9	202	PEB	CHA-C1B-NB	-2.48	119.75	124.93
29	P2	201	PEB	OD-C4D-ND	-2.48	122.26	125.93
29	F7	1002	PEB	CAA-C3A-C2A	-2.48	108.07	114.26
29	P2	201	PEB	C2B-C1B-NB	2.48	115.81	110.53
31	D1	1001	CYC	C1A-C2A-C3A	-2.48	104.04	106.78
29	F9	1002	PEB	CAA-C3A-C2A	-2.48	108.07	114.26
29	A7	301	PEB	OD-C4D-C3D	-2.48	123.85	129.46
29	A9	301	PEB	OD-C4D-C3D	-2.48	123.85	129.46
29	NR	202	PEB	OD-C4D-ND	-2.48	122.26	125.93
29	O1	202	PEB	CMB-C2B-C1B	2.48	128.88	125.06
29	OK	202	PEB	CMB-C2B-C1B	2.48	128.88	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aF	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	aI	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
31	HK	1001	CYC	CHA-C1A-NA	-2.47	125.39	128.83
29	VF	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	VI	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	R2	203	PEB	CAC-CBC-CGC	-2.47	106.82	113.76
29	cF	202	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	cI	202	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	PR	201	PEB	OD-C4D-ND	-2.47	122.27	125.93
31	cP	1001	CYC	C1B-CHB-C4A	2.47	134.12	128.08
31	1P	1002	CYC	O2A-CGA-CBA	2.47	121.97	114.03
31	CP	1001	CYC	C1B-CHB-C4A	2.47	134.12	128.08
31	J1	1001	CYC	CHA-C1A-NA	-2.47	125.40	128.83
31	L1	1001	CYC	CHA-C1A-NA	-2.47	125.40	128.83
31	JK	1001	CYC	CHA-C1A-NA	-2.47	125.40	128.83
31	LK	1001	CYC	CHA-C1A-NA	-2.47	125.40	128.83
29	DQ	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
31	NP	1001	CYC	C2C-C1C-NC	2.47	110.40	108.27
29	J3	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	JO	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	IB	202	PEB	CMB-C2B-C1B	2.47	128.87	125.06
29	IM	202	PEB	CMB-C2B-C1B	2.47	128.87	125.06
30	A7	302	PUB	C1D-CHC-C4C	-2.47	107.99	113.37
30	A9	302	PUB	C1D-CHC-C4C	-2.47	107.99	113.37
29	L3	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	LO	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	XR	203	PEB	CAC-CBC-CGC	-2.47	106.83	113.76
29	LG	203	PEB	CHA-C1B-NB	-2.47	119.76	124.93
29	C5	202	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	BQ	203	PEB	CHA-C1B-NB	-2.47	119.77	124.93
29	B3	203	PEB	CAC-CBC-CGC	-2.47	106.83	113.76
29	BO	203	PEB	CAC-CBC-CGC	-2.47	106.83	113.76
29	B3	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	BO	201	PEB	OD-C4D-C3D	-2.47	123.86	129.46
29	PJ	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
29	PL	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
30	yL	303	PUB	CMD-C2D-C3D	2.47	131.47	127.77
31	NP	1001	CYC	C1B-CHB-C4A	2.47	134.11	128.08
29	MQ	407	PEB	CBC-CAC-C2C	-2.47	108.41	112.62
29	W2	202	PEB	CBC-CAC-C2C	-2.47	108.41	112.62
29	VR	203	PEB	CAC-CBC-CGC	-2.47	106.84	113.76
29	I5	202	PEB	OD-C4D-C3D	-2.47	123.87	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	I8	202	PEB	OD-C4D-C3D	-2.47	123.87	129.46
29	nJ	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
29	nL	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
31	NK	1001	CYC	C1A-C2A-C3A	-2.47	104.05	106.78
29	XR	202	PEB	CMD-C2D-C3D	2.47	133.54	130.06
29	M2	202	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	T2	203	PEB	CAC-CBC-CGC	-2.47	106.84	113.76
31	lP	1001	CYC	C1B-CHB-C4A	2.47	134.11	128.08
31	rP	1001	CYC	C1B-CHB-C4A	2.47	134.11	128.08
29	L8	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
29	jJ	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
29	jL	203	PEB	C2A-C1A-NA	2.47	110.40	108.27
29	l7	201	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	l9	201	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	G4	203	PEB	CMD-C2D-C3D	2.47	133.54	130.06
31	KP	1001	CYC	C1B-CHB-C4A	2.47	134.11	128.08
29	U2	202	PEB	OD-C4D-ND	-2.47	122.28	125.93
29	xL	302	PEB	OD-C4D-ND	-2.47	122.28	125.93
29	TR	202	PEB	CMD-C2D-C3D	2.47	133.54	130.06
29	YF	203	PEB	CHA-C1B-NB	-2.47	119.78	124.93
29	DG	203	PEB	CHA-C1B-NB	-2.47	119.78	124.93
29	YI	203	PEB	CHA-C1B-NB	-2.47	119.78	124.93
29	H7	1002	PEB	CAA-C3A-C2A	-2.47	108.10	114.26
29	H9	1002	PEB	CAA-C3A-C2A	-2.47	108.10	114.26
29	Z7	201	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	Z9	201	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	kB	203	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	kM	203	PEB	CHC-C1D-ND	-2.47	111.08	113.95
29	KD	203	PEB	CMD-C2D-C3D	2.47	133.54	130.06
29	N2	202	PEB	OD-C4D-ND	-2.47	122.28	125.93
29	d1	202	PEB	CMB-C2B-C1B	2.46	128.86	125.06
29	A7	301	PEB	CMB-C2B-C1B	2.46	128.86	125.06
29	A9	301	PEB	CMB-C2B-C1B	2.46	128.86	125.06
29	dK	202	PEB	CMB-C2B-C1B	2.46	128.86	125.06
29	eF	203	PEB	CHA-C1B-NB	-2.46	119.78	124.93
29	eI	203	PEB	CHA-C1B-NB	-2.46	119.78	124.93
29	j7	201	PEB	OA-C1A-NA	2.46	127.93	124.94
29	j9	201	PEB	OA-C1A-NA	2.46	127.93	124.94
29	bF	201	PEB	C4B-C3B-C2B	-2.46	104.06	106.78
29	bI	201	PEB	C4B-C3B-C2B	-2.46	104.06	106.78
29	J5	201	PEB	CHB-C4B-C3B	-2.46	119.63	125.32
29	J8	201	PEB	CHB-C4B-C3B	-2.46	119.63	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J9	1002	PEB	CAA-C3A-C2A	-2.46	108.10	114.26
29	F3	203	PEB	CAC-CBC-CGC	-2.46	106.85	113.76
29	FO	203	PEB	CAC-CBC-CGC	-2.46	106.85	113.76
29	CD	203	PEB	CMD-C2D-C3D	2.46	133.54	130.06
29	TF	202	PEB	CHA-C1B-NB	-2.46	119.78	124.93
29	TI	202	PEB	CHA-C1B-NB	-2.46	119.78	124.93
29	RF	201	PEB	OD-C4D-C3D	-2.46	123.88	129.46
29	RI	201	PEB	OD-C4D-C3D	-2.46	123.88	129.46
29	VJ	202	PEB	C2A-C1A-NA	2.46	110.40	108.27
29	hJ	203	PEB	C2A-C1A-NA	2.46	110.40	108.27
29	VL	202	PEB	C2A-C1A-NA	2.46	110.40	108.27
29	hL	203	PEB	C2A-C1A-NA	2.46	110.40	108.27
29	QR	202	PEB	CHA-C4A-NA	-2.46	122.28	125.20
29	F4	201	PEB	C2B-C1B-NB	2.46	115.78	110.53
31	GP	1001	CYC	CHB-C1B-C2B	-2.46	122.07	126.95
31	TP	1001	CYC	C1B-CHB-C4A	2.46	134.10	128.08
29	C8	202	PEB	OD-C4D-C3D	-2.46	123.88	129.46
31	vP	1001	CYC	C1B-CHB-C4A	2.46	134.09	128.08
29	b7	201	PEB	OA-C1A-NA	2.46	127.92	124.94
29	b9	201	PEB	OA-C1A-NA	2.46	127.92	124.94
31	EP	1001	CYC	C1B-CHB-C4A	2.46	134.09	128.08
31	PP	1001	CYC	C1B-CHB-C4A	2.46	134.09	128.08
31	L1	1001	CYC	C1A-C2A-C3A	-2.46	104.06	106.78
31	LK	1001	CYC	C1A-C2A-C3A	-2.46	104.06	106.78
31	tP	1001	CYC	C1B-CHB-C4A	2.46	134.09	128.08
29	VR	202	PEB	C2B-C1B-NB	2.46	115.78	110.53
29	M2	202	PEB	OD-C4D-ND	-2.46	122.28	125.93
31	xP	1001	CYC	CBD-CAD-C3D	2.46	116.82	112.62
29	h1	202	PEB	CMB-C2B-C1B	2.46	128.85	125.06
29	hK	202	PEB	CMB-C2B-C1B	2.46	128.85	125.06
29	MD	203	PEB	CMD-C2D-C3D	2.46	133.53	130.06
29	V2	202	PEB	C2B-C1B-NB	2.46	115.78	110.53
29	PR	201	PEB	C2B-C1B-NB	2.46	115.78	110.53
29	OR	202	PEB	CMB-C2B-C1B	2.46	128.85	125.06
29	PF	203	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	JG	203	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	PI	203	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	GD	203	PEB	CHC-C4C-C3C	-2.46	126.14	130.34
31	M7	1001	CYC	OB-C4B-NB	-2.46	119.36	125.08
29	BA	201	PEB	CAA-C3A-C4A	-2.46	106.36	112.67
29	BN	201	PEB	CAA-C3A-C4A	-2.46	106.36	112.67
29	J3	202	PEB	CHC-C1D-ND	-2.46	111.09	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JO	202	PEB	CHC-C1D-ND	-2.46	111.09	113.95
29	xJ	302	PEB	OD-C4D-ND	-2.46	122.29	125.93
29	WF	201	PEB	C4B-C3B-C2B	-2.46	104.06	106.78
29	WI	201	PEB	C4B-C3B-C2B	-2.46	104.06	106.78
29	D3	203	PEB	CAC-CBC-CGC	-2.46	106.87	113.76
29	DO	203	PEB	CAC-CBC-CGC	-2.46	106.87	113.76
29	JQ	203	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	e1	201	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	K5	202	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	K8	202	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	eK	201	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	UR	202	PEB	CBC-CAC-C2C	-2.46	108.43	112.62
29	Q2	202	PEB	CHC-C1D-ND	-2.46	111.09	113.95
29	IJ	201	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	IL	201	PEB	CHA-C1B-NB	-2.46	119.79	124.93
29	H3	201	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	HO	201	PEB	OD-C4D-C3D	-2.46	123.89	129.46
29	RR	202	PEB	CMD-C2D-C3D	2.46	133.53	130.06
29	MG	405	PEB	CBC-CAC-C2C	-2.46	108.43	112.62
29	L3	202	PEB	CAC-CBC-CGC	-2.46	106.88	113.76
29	LO	202	PEB	CAC-CBC-CGC	-2.46	106.88	113.76
29	H4	201	PEB	C2B-C1B-NB	2.46	115.77	110.53
31	F1	1001	CYC	C1A-C2A-C3A	-2.45	104.07	106.78
31	FK	1001	CYC	C1A-C2A-C3A	-2.45	104.07	106.78
29	RF	202	PEB	CHA-C1B-NB	-2.45	119.80	124.93
29	RI	202	PEB	CHA-C1B-NB	-2.45	119.80	124.93
29	TR	203	PEB	CAC-CBC-CGC	-2.45	106.88	113.76
29	kF	203	PEB	CHA-C1B-NB	-2.45	119.80	124.93
29	kI	203	PEB	CHA-C1B-NB	-2.45	119.80	124.93
29	UF	202	PEB	C4B-C3B-C2B	-2.45	104.07	106.78
29	UI	202	PEB	C4B-C3B-C2B	-2.45	104.07	106.78
29	D3	203	PEB	C1B-C2B-C3B	-2.45	103.69	106.51
29	DO	203	PEB	C1B-C2B-C3B	-2.45	103.69	106.51
31	mP	1001	CYC	C1B-CHB-C4A	2.45	134.07	128.08
29	G4	203	PEB	CHC-C4C-C3C	-2.45	126.15	130.34
31	E7	1001	CYC	OB-C4B-NB	-2.45	119.38	125.08
31	G7	1001	CYC	OB-C4B-NB	-2.45	119.38	125.08
31	E9	1001	CYC	OB-C4B-NB	-2.45	119.38	125.08
29	a1	201	PEB	OD-C4D-C3D	-2.45	123.90	129.46
29	aK	201	PEB	OD-C4D-C3D	-2.45	123.90	129.46
29	N2	202	PEB	C2B-C1B-NB	2.45	115.76	110.53
29	NR	202	PEB	C2B-C1B-NB	2.45	115.76	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	H1	1001	CYC	C1A-C2A-C3A	-2.45	104.07	106.78
29	R2	202	PEB	CMD-C2D-C3D	2.45	133.52	130.06
29	X2	202	PEB	CAC-CBC-CGC	-2.45	106.89	113.76
29	H3	203	PEB	CAC-CBC-CGC	-2.45	106.89	113.76
29	HO	203	PEB	CAC-CBC-CGC	-2.45	106.89	113.76
30	QB	201	PUB	O2B-CGB-CBB	2.45	121.91	114.03
30	QM	201	PUB	O2B-CGB-CBB	2.45	121.91	114.03
31	KP	1001	CYC	CHB-C1B-C2B	-2.45	122.09	126.95
29	ED	202	PEB	CHC-C4C-C3C	-2.45	126.16	130.34
29	O7	201	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	O9	201	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	R1	201	PEB	OD-C4D-C3D	-2.45	123.91	129.46
29	RK	201	PEB	OD-C4D-C3D	-2.45	123.91	129.46
29	G8	203	PEB	CHA-C1B-NB	-2.45	119.81	124.93
29	wL	302	PEB	OD-C4D-ND	-2.45	122.30	125.93
30	MG	402	PUB	CMA-C2A-C3A	2.45	134.71	129.67
29	hF	201	PEB	C4B-C3B-C2B	-2.45	104.07	106.78
29	hI	201	PEB	C4B-C3B-C2B	-2.45	104.07	106.78
31	eP	1001	CYC	C1B-CHB-C4A	2.45	134.07	128.08
29	ED	202	PEB	CMD-C2D-C3D	2.45	133.52	130.06
31	YP	1000	CYC	O2A-CGA-CBA	2.45	121.90	114.03
29	J3	203	PEB	CAC-CBC-CGC	-2.45	106.89	113.76
29	JO	203	PEB	CAC-CBC-CGC	-2.45	106.89	113.76
29	TR	202	PEB	OD-C4D-ND	-2.45	122.30	125.93
29	AA	202	PEB	CAA-C3A-C2A	-2.45	108.14	114.26
29	AN	202	PEB	CAA-C3A-C2A	-2.45	108.14	114.26
29	fI	202	PEB	CMB-C2B-C1B	2.45	128.84	125.06
29	fK	202	PEB	CMB-C2B-C1B	2.45	128.84	125.06
30	wL	304	PUB	C2C-C1C-NC	2.45	113.61	110.05
31	eP	1001	CYC	CHB-C1B-C2B	-2.45	122.09	126.95
29	I3	203	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	IO	203	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	LJ	201	PEB	CHA-C1B-NB	-2.45	119.81	124.93
29	LL	201	PEB	CHA-C1B-NB	-2.45	119.81	124.93
29	A7	305	PEB	C2A-C1A-NA	2.45	110.38	108.27
29	A9	305	PEB	C2A-C1A-NA	2.45	110.38	108.27
31	K7	1001	CYC	OB-C4B-NB	-2.45	119.39	125.08
29	eB	202	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	eM	202	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	LQ	202	PEB	CHC-C1D-ND	-2.45	111.10	113.95
29	L3	202	PEB	C1B-C2B-C3B	-2.45	103.70	106.51
29	LO	202	PEB	C1B-C2B-C3B	-2.45	103.70	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T2	202	PEB	CMD-C2D-C3D	2.45	133.52	130.06
29	JD	201	PEB	C2B-C1B-NB	2.45	115.75	110.53
30	yJ	303	PUB	CMD-C2D-C3D	2.45	131.44	127.77
29	Q7	201	PEB	CHC-C1D-ND	-2.45	111.11	113.95
29	Q9	201	PEB	CHC-C1D-ND	-2.45	111.11	113.95
29	EB	202	PEB	CMB-C2B-C1B	2.45	128.83	125.06
29	EM	202	PEB	CMB-C2B-C1B	2.45	128.83	125.06
29	V2	202	PEB	OD-C4D-ND	-2.45	122.31	125.93
31	VP	1001	CYC	CBD-CAD-C3D	2.45	116.80	112.62
31	G9	1001	CYC	OB-C4B-NB	-2.45	119.39	125.08
29	B8	203	PEB	CHA-C1B-NB	-2.45	119.81	124.93
29	ID	203	PEB	CHC-C4C-C3C	-2.45	126.16	130.34
31	EP	1001	CYC	CHB-C1B-C2B	-2.45	122.10	126.95
29	NJ	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	XJ	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	ZJ	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	pJ	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	NL	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	XL	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	ZL	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	pL	201	PEB	CHA-C1B-NB	-2.45	119.82	124.93
29	D3	201	PEB	OD-C4D-C3D	-2.45	123.92	129.46
29	DO	201	PEB	OD-C4D-C3D	-2.45	123.92	129.46
31	N1	1001	CYC	C1A-C2A-C3A	-2.45	104.08	106.78
29	BB	301	PEB	C1B-C2B-C3B	-2.45	103.70	106.51
29	BM	301	PEB	C1B-C2B-C3B	-2.45	103.70	106.51
29	FD	201	PEB	C2B-C1B-NB	2.45	115.75	110.53
29	XR	201	PEB	C1C-CHB-C4B	-2.45	125.89	128.81
29	B4	201	PEB	C2B-C1B-NB	2.44	115.75	110.53
29	XR	202	PEB	C2B-C1B-NB	2.44	115.75	110.53
29	OR	202	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	TJ	201	PEB	CHA-C1B-NB	-2.44	119.82	124.93
29	TL	201	PEB	CHA-C1B-NB	-2.44	119.82	124.93
29	RR	202	PEB	C2B-C1B-NB	2.44	115.75	110.53
31	PP	1001	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
29	hB	202	PEB	CMB-C2B-C1B	2.44	128.83	125.06
29	hM	202	PEB	CMB-C2B-C1B	2.44	128.83	125.06
29	VR	202	PEB	CMD-C2D-C3D	2.44	133.51	130.06
31	M9	1001	CYC	OB-C4B-NB	-2.44	119.40	125.08
29	SR	202	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	QF	201	PEB	C4B-C3B-C2B	-2.44	104.08	106.78
29	QI	201	PEB	C4B-C3B-C2B	-2.44	104.08	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SB	202	PEB	CMB-C2B-C1B	2.44	128.83	125.06
29	SM	202	PEB	CMB-C2B-C1B	2.44	128.83	125.06
29	X2	201	PEB	CMD-C2D-C3D	2.44	133.51	130.06
29	HG	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	HQ	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	GA	202	PEB	CAA-C3A-C2A	-2.44	108.16	114.26
29	IA	202	PEB	CAA-C3A-C2A	-2.44	108.16	114.26
29	GN	202	PEB	CAA-C3A-C2A	-2.44	108.16	114.26
29	IN	202	PEB	CAA-C3A-C2A	-2.44	108.16	114.26
29	WB	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	WM	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	P2	201	PEB	CMD-C2D-C3D	2.44	133.51	130.06
30	AF	303	PUB	C2C-C1C-NC	2.44	113.60	110.05
30	AI	303	PUB	C2C-C1C-NC	2.44	113.60	110.05
29	zL	501	PEB	CHA-C1B-NB	-2.44	119.83	124.93
29	JJ	201	PEB	CHA-C1B-NB	-2.44	119.83	124.93
29	JL	201	PEB	CHA-C1B-NB	-2.44	119.83	124.93
29	GB	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	GM	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
31	tP	1001	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
29	K4	203	PEB	CHC-C4C-C3C	-2.44	126.17	130.34
29	J4	201	PEB	C2B-C1B-NB	2.44	115.74	110.53
29	W7	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	W9	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	LG	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	MQ	402	PEB	CHC-C1D-ND	-2.44	111.11	113.95
31	C7	1001	CYC	OB-C4B-NB	-2.44	119.41	125.08
31	C9	1001	CYC	OB-C4B-NB	-2.44	119.41	125.08
31	GP	1001	CYC	C1B-CHB-C4A	2.44	134.04	128.08
29	fB	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	fM	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	E4	203	PEB	CHC-C4C-C3C	-2.44	126.17	130.34
29	W2	202	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	MB	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	jB	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	MM	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	jM	202	PEB	CMB-C2B-C1B	2.44	128.82	125.06
29	TR	203	PEB	CBC-CAC-C2C	-2.44	108.46	112.62
29	S2	202	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	f7	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	f9	201	PEB	CHC-C1D-ND	-2.44	111.11	113.95
29	S2	202	PEB	OD-C4D-ND	-2.44	122.32	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	wJ	302	PEB	OD-C4D-ND	-2.44	122.32	125.93
31	RP	1001	CYC	CHB-C1B-C2B	-2.44	122.12	126.95
31	mP	1001	CYC	CHB-C1B-C2B	-2.44	122.12	126.95
31	rP	1001	CYC	CHB-C1B-C2B	-2.44	122.12	126.95
29	VJ	201	PEB	CHA-C1B-NB	-2.44	119.83	124.93
29	VL	201	PEB	CHA-C1B-NB	-2.44	119.83	124.93
31	vP	1001	CYC	CHB-C1B-C2B	-2.44	122.12	126.95
29	WR	202	PEB	CHC-C1D-ND	-2.44	111.12	113.95
29	FA	201	PEB	CAA-C3A-C4A	-2.44	106.42	112.67
29	FN	201	PEB	CAA-C3A-C4A	-2.44	106.42	112.67
31	xP	1001	CYC	C4A-C3A-C2A	-2.44	103.71	106.51
31	K9	1001	CYC	OB-C4B-NB	-2.44	119.42	125.08
29	R2	202	PEB	OD-C4D-ND	-2.44	122.32	125.93
29	HD	201	PEB	C2B-C1B-NB	2.44	115.73	110.53
29	DJ	201	PEB	CHA-C1B-NB	-2.44	119.84	124.93
29	DL	201	PEB	CHA-C1B-NB	-2.44	119.84	124.93
29	ID	203	PEB	CMD-C2D-C3D	2.44	133.50	130.06
29	PJ	201	PEB	CHA-C1B-NB	-2.44	119.84	124.93
29	PL	201	PEB	CHA-C1B-NB	-2.44	119.84	124.93
29	NO	201	PEB	C2A-C1A-NA	2.43	110.37	108.27
29	FD	201	PEB	CBC-CAC-C2C	-2.43	108.47	112.62
29	M3	201	PEB	OD-C4D-C3D	-2.43	123.94	129.46
29	MO	201	PEB	OD-C4D-C3D	-2.43	123.94	129.46
29	dJ	201	PEB	CHA-C1B-NB	-2.43	119.84	124.93
29	rJ	201	PEB	CHA-C1B-NB	-2.43	119.84	124.93
29	dL	201	PEB	CHA-C1B-NB	-2.43	119.84	124.93
29	rL	201	PEB	CHA-C1B-NB	-2.43	119.84	124.93
29	JA	201	PEB	CAA-C3A-C4A	-2.43	106.42	112.67
29	JN	201	PEB	CAA-C3A-C4A	-2.43	106.42	112.67
29	CA	202	PEB	CAA-C3A-C2A	-2.43	108.18	114.26
29	CN	202	PEB	CAA-C3A-C2A	-2.43	108.18	114.26
29	BG	201	PEB	CHC-C1D-ND	-2.43	111.12	113.95
29	FG	201	PEB	CHC-C1D-ND	-2.43	111.12	113.95
29	BQ	201	PEB	CHC-C1D-ND	-2.43	111.12	113.95
29	FQ	201	PEB	CHC-C1D-ND	-2.43	111.12	113.95
31	CP	1001	CYC	CHB-C1B-C2B	-2.43	122.13	126.95
29	T2	202	PEB	OD-C4D-ND	-2.43	122.33	125.93
29	G5	202	PEB	OD-C4D-C3D	-2.43	123.95	129.46
30	AB	305	PUB	CHC-C1D-ND	-2.43	110.65	113.72
29	QB	204	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	QM	204	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	JC	202	PEB	OD-C4D-C3D	-2.43	123.95	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JE	202	PEB	OD-C4D-C3D	-2.43	123.95	129.46
29	O2	202	PEB	CHC-C1D-ND	-2.43	111.12	113.95
29	HA	201	PEB	CAA-C3A-C4A	-2.43	106.43	112.67
29	HN	201	PEB	CAA-C3A-C4A	-2.43	106.43	112.67
29	P7	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	V7	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	P9	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	V9	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	aB	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	aM	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	I4	203	PEB	OD-C4D-ND	-2.43	122.33	125.93
31	DK	1001	CYC	C1A-C2A-C3A	-2.43	104.09	106.78
29	OB	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	OM	202	PEB	CMB-C2B-C1B	2.43	128.81	125.06
29	e2	402	PEB	CBC-CAC-C2C	-2.43	108.47	112.62
29	XR	201	PEB	CBC-CAC-C2C	-2.43	108.47	112.62
29	DC	202	PEB	OD-C4D-C3D	-2.43	123.95	129.46
29	DE	202	PEB	OD-C4D-C3D	-2.43	123.95	129.46
29	VR	202	PEB	OD-C4D-ND	-2.43	122.33	125.93
31	VP	1001	CYC	C4A-C3A-C2A	-2.43	103.72	106.51
29	FJ	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	tJ	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	FL	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	tL	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	X2	201	PEB	C2B-C1B-NB	2.43	115.72	110.53
31	NP	1001	CYC	CHB-C1B-C2B	-2.43	122.13	126.95
29	hJ	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	hL	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	X2	201	PEB	OD-C4D-ND	-2.43	122.33	125.93
29	BC	203	PEB	OD-C4D-C3D	-2.43	123.95	129.46
29	BE	203	PEB	OD-C4D-C3D	-2.43	123.95	129.46
31	lP	1001	CYC	CHB-C1B-C2B	-2.43	122.13	126.95
31	I7	1001	CYC	OB-C4B-NB	-2.43	119.43	125.08
31	I9	1001	CYC	OB-C4B-NB	-2.43	119.43	125.08
29	EA	202	PEB	CAA-C3A-C2A	-2.43	108.19	114.26
29	EN	202	PEB	CAA-C3A-C2A	-2.43	108.19	114.26
31	AP	1001	CYC	CHB-C1B-C2B	-2.43	122.13	126.95
31	iP	1001	CYC	CHB-C1B-C2B	-2.43	122.13	126.95
29	L8	203	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	L4	201	PEB	CMA-C2A-C1A	-2.43	107.17	112.40
29	LA	201	PEB	CAA-C3A-C4A	-2.43	106.44	112.67
29	LN	201	PEB	CAA-C3A-C4A	-2.43	106.44	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	C4	203	PEB	CHC-C4C-C3C	-2.43	126.19	130.34
30	AF	302	PUB	C2C-C1C-NC	2.43	113.58	110.05
30	AI	302	PUB	C2C-C1C-NC	2.43	113.58	110.05
29	L5	203	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	nJ	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	nL	201	PEB	CHA-C1B-NB	-2.43	119.85	124.93
29	d7	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
29	d9	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
30	AM	305	PUB	CHC-C1D-ND	-2.43	110.65	113.72
30	A7	303	PUB	CBA-CAA-C3A	-2.43	109.30	112.98
30	A9	303	PUB	CBA-CAA-C3A	-2.43	109.30	112.98
29	T2	202	PEB	C2B-C1B-NB	2.43	115.71	110.53
29	TR	202	PEB	C2B-C1B-NB	2.43	115.71	110.53
29	H8	203	PEB	C2A-C1A-NA	2.43	110.37	108.27
29	TR	201	PEB	CBC-CAC-C2C	-2.43	108.48	112.62
29	h7	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
29	j7	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
29	h9	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
29	j9	201	PEB	CHC-C1D-ND	-2.43	111.13	113.95
29	Y1	201	PEB	OD-C4D-C3D	-2.43	123.96	129.46
29	YK	201	PEB	OD-C4D-C3D	-2.43	123.96	129.46
29	PR	201	PEB	CMD-C2D-C3D	2.43	133.49	130.06
29	F5	203	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	F8	203	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	jJ	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	jL	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
31	TP	1001	CYC	CHB-C1B-C2B	-2.43	122.14	126.95
31	gP	1001	CYC	CHB-C1B-C2B	-2.43	122.14	126.95
29	CD	203	PEB	CHC-C4C-C3C	-2.43	126.20	130.34
29	V2	201	PEB	C1C-CHB-C4B	-2.43	125.91	128.81
29	VR	201	PEB	C1C-CHB-C4B	-2.43	125.91	128.81
29	L8	202	PEB	OD-C4D-C3D	-2.43	123.96	129.46
29	bJ	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	bL	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	B3	203	PEB	C1B-C2B-C3B	-2.43	103.72	106.51
29	BO	203	PEB	C1B-C2B-C3B	-2.43	103.72	106.51
31	pP	1001	CYC	CHB-C1B-C2B	-2.43	122.14	126.95
29	R2	202	PEB	C2B-C1B-NB	2.43	115.71	110.53
29	fF	201	PEB	C4B-C3B-C2B	-2.43	104.10	106.78
29	fI	201	PEB	C4B-C3B-C2B	-2.43	104.10	106.78
29	G8	202	PEB	OD-C4D-C3D	-2.43	123.96	129.46
31	HF	1001	CYC	CAC-C3C-C2C	-2.43	108.20	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	HI	1001	CYC	CAC-C3C-C2C	-2.43	108.20	114.26
29	fJ	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	fL	201	PEB	CHA-C1B-NB	-2.43	119.86	124.93
29	N2	202	PEB	CMD-C2D-C3D	2.43	133.48	130.06
29	c1	201	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	cK	201	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	N3	201	PEB	C2A-C1A-NA	2.42	110.36	108.27
31	yP	1001	CYC	C1B-CHB-C4A	2.42	134.00	128.08
29	vJ	201	PEB	CHA-C1B-NB	-2.42	119.86	124.93
29	vL	201	PEB	CHA-C1B-NB	-2.42	119.86	124.93
29	DA	201	PEB	CAA-C3A-C4A	-2.42	106.45	112.67
29	DN	201	PEB	CAA-C3A-C4A	-2.42	106.45	112.67
29	WR	202	PEB	OD-C4D-ND	-2.42	122.34	125.93
29	CB	202	PEB	CMB-C2B-C1B	2.42	128.80	125.06
29	CM	202	PEB	CMB-C2B-C1B	2.42	128.80	125.06
29	N2	201	PEB	CBC-CAC-C2C	-2.42	108.48	112.62
29	F4	201	PEB	CBC-CAC-C2C	-2.42	108.48	112.62
29	F3	203	PEB	C1B-C2B-C3B	-2.42	103.73	106.51
29	FO	203	PEB	C1B-C2B-C3B	-2.42	103.73	106.51
29	DB	202	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	DM	202	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	RR	201	PEB	C1C-CHB-C4B	-2.42	125.92	128.81
29	DD	201	PEB	CBC-CAC-C2C	-2.42	108.49	112.62
29	RJ	201	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	RL	201	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	HC	203	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	HE	203	PEB	OD-C4D-C3D	-2.42	123.97	129.46
29	G5	203	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	UR	201	PEB	CHA-C1B-C2B	2.42	131.13	124.90
29	KA	202	PEB	CAA-C3A-C2A	-2.42	108.21	114.26
29	KN	202	PEB	CAA-C3A-C2A	-2.42	108.21	114.26
31	FF	1001	CYC	CAC-C3C-C2C	-2.42	108.21	114.26
31	FI	1001	CYC	CAC-C3C-C2C	-2.42	108.21	114.26
29	H8	203	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	BJ	201	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	BL	201	PEB	CHA-C1B-NB	-2.42	119.87	124.93
29	dB	202	PEB	CMB-C2B-C1B	2.42	128.79	125.06
29	dM	202	PEB	CMB-C2B-C1B	2.42	128.79	125.06
31	WP	1001	CYC	C1B-CHB-C4A	2.42	134.00	128.08
29	m1	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	mK	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	BD	201	PEB	CBC-CAC-C2C	-2.42	108.49	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NR	202	PEB	CMD-C2D-C3D	2.42	133.48	130.06
29	NR	203	PEB	CBC-CAC-C2C	-2.42	108.49	112.62
29	k1	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	kK	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	SR	202	PEB	OD-C4D-ND	-2.42	122.35	125.93
31	cP	1001	CYC	CHB-C1B-C2B	-2.42	122.16	126.95
29	V1	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	VB	202	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	FC	203	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	FE	203	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	VK	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	VM	202	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	U2	201	PEB	CHA-C1B-C2B	2.42	131.12	124.90
29	KD	203	PEB	CHC-C4C-C3C	-2.42	126.21	130.34
29	a7	202	PEB	CMB-C2B-C1B	2.42	128.79	125.06
29	a9	202	PEB	CMB-C2B-C1B	2.42	128.79	125.06
31	JP	1001	CYC	CHB-C1B-C2B	-2.42	122.16	126.95
29	P1	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	g1	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	PK	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	gK	201	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	R2	201	PEB	CBC-CAC-C2C	-2.42	108.49	112.62
29	MA	401	PEB	CBC-CAC-C2C	-2.42	108.49	112.62
29	SF	201	PEB	C4B-C3B-C2B	-2.42	104.11	106.78
29	SI	201	PEB	C4B-C3B-C2B	-2.42	104.11	106.78
29	MR	201	PEB	CHA-C1B-C2B	2.42	131.12	124.90
29	T1	202	PEB	C1B-C2B-C3B	-2.42	103.73	106.51
29	TK	202	PEB	C1B-C2B-C3B	-2.42	103.73	106.51
29	LC	203	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	LE	203	PEB	OD-C4D-C3D	-2.42	123.98	129.46
29	T2	203	PEB	CBC-CAC-C2C	-2.42	108.50	112.62
29	S7	201	PEB	CHC-C1D-ND	-2.42	111.14	113.95
29	S9	201	PEB	CHC-C1D-ND	-2.42	111.14	113.95
29	Q2	201	PEB	CHA-C1B-C2B	2.42	131.11	124.90
29	g7	202	PEB	CMB-C2B-C1B	2.42	128.78	125.06
29	g9	202	PEB	CMB-C2B-C1B	2.42	128.78	125.06
29	MN	401	PEB	CBC-CAC-C2C	-2.42	108.50	112.62
31	LF	1001	CYC	CAC-C3C-C2C	-2.42	108.22	114.26
31	LI	1001	CYC	CAC-C3C-C2C	-2.42	108.22	114.26
29	WR	201	PEB	CHA-C1B-C2B	2.41	131.11	124.90
29	QR	201	PEB	CHA-C1B-C2B	2.41	131.11	124.90
29	B5	202	PEB	OD-C4D-C3D	-2.41	123.99	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	O2	202	PEB	OD-C4D-ND	-2.41	122.35	125.93
29	HB	202	PEB	OD-C4D-C3D	-2.41	123.99	129.46
29	HM	202	PEB	OD-C4D-C3D	-2.41	123.99	129.46
29	L5	203	PEB	C2A-C1A-NA	2.41	110.35	108.27
29	LD	201	PEB	C2B-C1B-NB	2.41	115.68	110.53
29	M2	201	PEB	CHA-C1B-C2B	2.41	131.11	124.90
29	D4	201	PEB	C2B-C1B-NB	2.41	115.68	110.53
31	uP	1001	CYC	C4D-CHA-C1A	2.41	131.69	128.81
29	RR	202	PEB	OD-C4D-ND	-2.41	122.36	125.93
29	V2	202	PEB	CMD-C2D-C3D	2.41	133.47	130.06
29	TR	201	PEB	C1C-CHB-C4B	-2.41	125.93	128.81
29	DD	201	PEB	C2B-C1B-NB	2.41	115.68	110.53
29	UB	202	PEB	CMB-C2B-C1B	2.41	128.78	125.06
29	MQ	401	PEB	CMB-C2B-C1B	2.41	128.78	125.06
30	A7	302	PUB	C2C-C1C-NC	2.41	113.56	110.05
30	A9	302	PUB	C2C-C1C-NC	2.41	113.56	110.05
29	P2	202	PEB	CBC-CAC-C2C	-2.41	108.50	112.62
29	PR	202	PEB	CBC-CAC-C2C	-2.41	108.50	112.62
29	RR	201	PEB	CBC-CAC-C2C	-2.41	108.50	112.62
29	B4	201	PEB	CMA-C2A-C1A	-2.41	107.20	112.40
29	OR	202	PEB	CAB-CBB-CGB	-2.41	108.41	113.60
30	MQ	404	PUB	CMA-C2A-C3A	2.41	134.62	129.67
29	MG	404	PEB	CMD-C2D-C3D	2.41	133.46	130.06
29	N3	201	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	kB	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	kM	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	RR	203	PEB	CBC-CAC-C2C	-2.41	108.51	112.62
29	MD	203	PEB	CHC-C4C-C3C	-2.41	126.22	130.34
29	aB	203	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	mB	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	aM	203	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	mM	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	T2	201	PEB	CBC-CAC-C2C	-2.41	108.51	112.62
29	HD	201	PEB	CBC-CAC-C2C	-2.41	108.51	112.62
29	L5	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	LB	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	LM	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	DG	201	PEB	CHC-C1D-ND	-2.41	111.15	113.95
29	DQ	201	PEB	CHC-C1D-ND	-2.41	111.15	113.95
29	JD	201	PEB	CMA-C2A-C1A	-2.41	107.21	112.40
29	BD	201	PEB	C2A-C1A-NA	2.41	110.35	108.27
29	H5	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D4	201	PEB	CMA-C2A-C1A	-2.41	107.21	112.40
31	DF	1001	CYC	CAC-C3C-C2C	-2.41	108.24	114.26
31	DI	1001	CYC	CAC-C3C-C2C	-2.41	108.24	114.26
29	m1	202	PEB	C1B-C2B-C3B	-2.41	103.74	106.51
29	NF	1002	PEB	C1B-C2B-C3B	-2.41	103.74	106.51
29	NI	1002	PEB	C1B-C2B-C3B	-2.41	103.74	106.51
29	mK	202	PEB	C1B-C2B-C3B	-2.41	103.74	106.51
29	O2	201	PEB	CHA-C1B-C2B	2.41	131.09	124.90
29	XR	202	PEB	OD-C4D-ND	-2.41	122.36	125.93
29	e2	402	PEB	C1C-CHB-C4B	-2.41	125.93	128.81
29	ZB	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	ZM	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	H5	203	PEB	CHA-C1B-NB	-2.41	119.90	124.93
29	i7	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	i9	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	YB	203	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	YM	203	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	N2	203	PEB	CBC-CAC-C2C	-2.41	108.51	112.62
29	RB	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	RM	202	PEB	OD-C4D-C3D	-2.41	124.00	129.46
29	AG	201	PEB	C1C-CHB-C4B	2.41	131.69	128.81
29	AQ	201	PEB	C1C-CHB-C4B	2.41	131.69	128.81
29	YB	201	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	YM	201	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	J4	201	PEB	CMA-C2A-C1A	-2.41	107.21	112.40
29	T7	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	T9	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
31	JF	1001	CYC	CAC-C3C-C2C	-2.41	108.25	114.26
31	JI	1001	CYC	CAC-C3C-C2C	-2.41	108.25	114.26
29	OF	201	PEB	C4B-C3B-C2B	-2.41	104.12	106.78
29	OI	201	PEB	C4B-C3B-C2B	-2.41	104.12	106.78
29	e1	202	PEB	C2B-C1B-NB	2.41	115.67	110.53
29	eK	202	PEB	C2B-C1B-NB	2.41	115.67	110.53
29	T1	201	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	TK	201	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	U7	201	PEB	CHC-C1D-ND	-2.41	111.15	113.95
29	U9	201	PEB	CHC-C1D-ND	-2.41	111.15	113.95
29	HQ	203	PEB	CHC-C1D-ND	-2.41	111.15	113.95
29	J5	201	PEB	CBB-CAB-C3B	-2.41	105.94	112.63
29	JB	202	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	JM	202	PEB	OD-C4D-C3D	-2.41	124.01	129.46
29	k7	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k9	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	U1	201	PEB	C2B-C1B-NB	2.41	115.66	110.53
29	UK	201	PEB	C2B-C1B-NB	2.41	115.66	110.53
29	Y1	202	PEB	C1B-C2B-C3B	-2.41	103.75	106.51
29	YK	202	PEB	C1B-C2B-C3B	-2.41	103.75	106.51
29	KB	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	AM	302	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	KM	202	PEB	CMB-C2B-C1B	2.41	128.77	125.06
29	jF	201	PEB	C4B-C3B-C2B	-2.41	104.12	106.78
29	jI	201	PEB	C4B-C3B-C2B	-2.41	104.12	106.78
29	M3	201	PEB	C2A-C1A-NA	2.40	110.35	108.27
29	MO	201	PEB	C2A-C1A-NA	2.40	110.35	108.27
29	V1	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	H3	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	VK	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	HO	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	F4	201	PEB	CMA-C2A-C1A	-2.40	107.22	112.40
31	SP	1001	CYC	C4D-CHA-C1A	2.40	131.68	128.81
29	j1	203	PEB	C2B-C1B-NB	2.40	115.66	110.53
29	jK	203	PEB	C2B-C1B-NB	2.40	115.66	110.53
29	Y7	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	Y9	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	P1	202	PEB	C2B-C1B-NB	2.40	115.66	110.53
29	PK	202	PEB	C2B-C1B-NB	2.40	115.66	110.53
29	i1	201	PEB	OD-C4D-C3D	-2.40	124.02	129.46
29	iK	201	PEB	OD-C4D-C3D	-2.40	124.02	129.46
29	NO	201	PEB	OD-C4D-C3D	-2.40	124.02	129.46
29	NR	201	PEB	CBC-CAC-C2C	-2.40	108.52	112.62
29	AB	302	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	lB	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	lM	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	BG	203	PEB	CHC-C1D-ND	-2.40	111.16	113.95
31	sP	1001	CYC	C4D-CHA-C1A	2.40	131.68	128.81
29	BD	201	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	L4	201	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	H4	201	PEB	CBC-CAC-C2C	-2.40	108.52	112.62
29	G4	201	PEB	C4B-NB-C1B	-2.40	101.99	106.51
29	JG	203	PEB	CHC-C1D-ND	-2.40	111.16	113.95
29	g1	202	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	gK	202	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	DD	201	PEB	CMA-C2A-C1A	-2.40	107.23	112.40
29	D1	1002	PEB	CBA-CAA-C3A	-2.40	108.12	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	W2	201	PEB	CHA-C1B-C2B	2.40	131.07	124.90
29	A7	305	PEB	CHA-C1B-C2B	2.40	131.07	124.90
29	A9	305	PEB	CHA-C1B-C2B	2.40	131.07	124.90
30	yJ	303	PUB	CBA-CAA-C3A	-2.40	109.34	112.98
29	e7	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	e9	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	k1	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	kK	203	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
31	DP	1001	CYC	C4D-CHA-C1A	2.40	131.68	128.81
31	FP	1001	CYC	C4D-CHA-C1A	2.40	131.68	128.81
29	L4	201	PEB	C2A-C1A-NA	2.40	110.34	108.27
29	dF	202	PEB	C4B-C3B-C2B	-2.40	104.13	106.78
29	dI	202	PEB	C4B-C3B-C2B	-2.40	104.13	106.78
29	HF	1002	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
29	HI	1002	PEB	C1B-C2B-C3B	-2.40	103.75	106.51
31	jP	1001	CYC	C4D-CHA-C1A	2.40	131.67	128.81
29	c7	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	c9	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	c1	202	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	cK	202	PEB	C2B-C1B-NB	2.40	115.65	110.53
29	m7	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	m9	202	PEB	CMB-C2B-C1B	2.40	128.76	125.06
29	C8	201	PEB	OD-C4D-C3D	-2.40	124.03	129.46
29	R7	202	PEB	CMB-C2B-C1B	2.40	128.75	125.06
29	R9	202	PEB	CMB-C2B-C1B	2.40	128.75	125.06
29	R2	203	PEB	CBC-CAC-C2C	-2.40	108.53	112.62
29	dF	201	PEB	CAB-C3B-C4B	2.40	129.25	125.01
29	dI	201	PEB	CAB-C3B-C4B	2.40	129.25	125.01
29	GD	201	PEB	C4B-NB-C1B	-2.40	102.00	106.51
29	TB	202	PEB	OD-C4D-C3D	-2.40	124.03	129.46
29	TM	202	PEB	OD-C4D-C3D	-2.40	124.03	129.46
31	nP	1001	CYC	C4D-CHA-C1A	2.40	131.67	128.81
29	JG	201	PEB	CHC-C1D-ND	-2.40	111.17	113.95
29	JQ	201	PEB	CHC-C1D-ND	-2.40	111.17	113.95
29	VR	203	PEB	CBC-CAC-C2C	-2.40	108.53	112.62
31	NF	1001	CYC	CAC-C3C-C2C	-2.40	108.28	114.26
31	NI	1001	CYC	CAC-C3C-C2C	-2.40	108.28	114.26
29	F5	202	PEB	OD-C4D-C3D	-2.40	124.03	129.46
29	F8	202	PEB	OD-C4D-C3D	-2.40	124.03	129.46
29	J8	201	PEB	CBB-CAB-C3B	-2.39	105.97	112.63
29	Z1	201	PEB	C2B-C1B-NB	2.39	115.64	110.53
29	ZK	201	PEB	C2B-C1B-NB	2.39	115.64	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	AF	302	PUB	OA-C1A-NA	-2.39	122.38	125.93
30	AI	302	PUB	OA-C1A-NA	-2.39	122.38	125.93
29	J4	201	PEB	CBC-CAC-C2C	-2.39	108.53	112.62
29	JD	201	PEB	CBC-CAC-C2C	-2.39	108.53	112.62
29	XR	203	PEB	CBC-CAC-C2C	-2.39	108.53	112.62
29	FD	201	PEB	CMA-C2A-C1A	-2.39	107.24	112.40
29	PF	202	PEB	CAB-C3B-C4B	2.39	129.24	125.01
29	PI	202	PEB	CAB-C3B-C4B	2.39	129.24	125.01
29	B8	202	PEB	OD-C4D-C3D	-2.39	124.04	129.46
29	HG	203	PEB	CHC-C1D-ND	-2.39	111.17	113.95
30	MQ	404	PUB	CMA-C2A-C1A	2.39	127.02	121.39
29	VR	201	PEB	CBC-CAC-C2C	-2.39	108.54	112.62
29	BD	201	PEB	CMA-C2A-C1A	-2.39	107.25	112.40
29	P1	203	PEB	C1B-C2B-C3B	-2.39	103.76	106.51
29	PK	203	PEB	C1B-C2B-C3B	-2.39	103.76	106.51
29	K5	201	PEB	OD-C4D-C3D	-2.39	124.04	129.46
29	K8	201	PEB	OD-C4D-C3D	-2.39	124.04	129.46
29	cB	202	PEB	OD-C4D-C3D	-2.39	124.04	129.46
29	cM	202	PEB	OD-C4D-C3D	-2.39	124.04	129.46
29	N1	1002	PEB	CBA-CAA-C3A	-2.39	108.14	113.47
29	LD	201	PEB	CMA-C2A-C1A	-2.39	107.25	112.40
29	A1	301	PEB	CAA-C3A-C4A	2.39	118.81	112.67
29	AK	301	PEB	CAA-C3A-C4A	2.39	118.81	112.67
29	R1	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	RK	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	F1	1002	PEB	CBA-CAA-C3A	-2.39	108.14	113.47
29	FK	1002	PEB	CBA-CAA-C3A	-2.39	108.14	113.47
29	B4	201	PEB	CBC-CAC-C2C	-2.39	108.54	112.62
29	C5	201	PEB	OD-C4D-C3D	-2.39	124.05	129.46
29	FB	202	PEB	OD-C4D-C3D	-2.39	124.05	129.46
29	FM	202	PEB	OD-C4D-C3D	-2.39	124.05	129.46
29	V1	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	VK	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	i1	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	iK	202	PEB	C2B-C1B-NB	2.39	115.63	110.53
29	V2	201	PEB	CBC-CAC-C2C	-2.39	108.54	112.62
29	L4	201	PEB	CBC-CAC-C2C	-2.39	108.54	112.62
29	LD	201	PEB	CBC-CAC-C2C	-2.39	108.54	112.62
29	J3	203	PEB	C1B-C2B-C3B	-2.39	103.77	106.51
29	DF	1002	PEB	C1B-C2B-C3B	-2.39	103.77	106.51
29	DI	1002	PEB	C1B-C2B-C3B	-2.39	103.77	106.51
29	JO	203	PEB	C1B-C2B-C3B	-2.39	103.77	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	OR	201	PEB	CHA-C1B-C2B	2.39	131.04	124.90
29	DD	201	PEB	C2A-C1A-NA	2.39	110.33	108.27
29	W2	202	PEB	OD-C4D-ND	-2.39	122.39	125.93
29	zL	501	PEB	CMB-C2B-C1B	2.39	128.74	125.06
29	OF	203	PEB	CAB-C3B-C4B	2.39	129.23	125.01
29	mF	202	PEB	CAB-C3B-C4B	2.39	129.23	125.01
29	OI	203	PEB	CAB-C3B-C4B	2.39	129.23	125.01
29	mI	202	PEB	CAB-C3B-C4B	2.39	129.23	125.01
31	OP	1001	CYC	C4D-CHA-C1A	2.39	131.66	128.81
31	UP	1001	CYC	C4D-CHA-C1A	2.39	131.66	128.81
29	dD	401	PEB	C4B-NB-C1B	-2.39	102.01	106.51
29	V2	203	PEB	CBC-CAC-C2C	-2.39	108.55	112.62
29	D4	201	PEB	CBC-CAC-C2C	-2.39	108.55	112.62
29	MN	404	PEB	C2A-C1A-NA	2.39	110.33	108.27
29	R1	203	PEB	C1B-C2B-C3B	-2.39	103.77	106.51
29	RK	203	PEB	C1B-C2B-C3B	-2.39	103.77	106.51
31	I7	1001	CYC	OB-C4B-C3B	-2.39	125.45	128.04
31	I9	1001	CYC	OB-C4B-C3B	-2.39	125.45	128.04
29	Q2	202	PEB	OD-C4D-ND	-2.39	122.39	125.93
29	H8	202	PEB	OD-C4D-C3D	-2.39	124.05	129.46
29	U2	201	PEB	CAB-CBB-CGB	-2.39	108.47	113.60
29	DK	1002	PEB	CBA-CAA-C3A	-2.39	108.16	113.47
29	NK	1002	PEB	CBA-CAA-C3A	-2.39	108.16	113.47
29	QB	202	PEB	OD-C4D-C3D	-2.39	124.06	129.46
29	QM	202	PEB	OD-C4D-C3D	-2.39	124.06	129.46
30	A7	302	PUB	CMD-C2D-C3D	2.39	131.35	127.77
30	A9	302	PUB	CMD-C2D-C3D	2.39	131.35	127.77
29	E4	201	PEB	C4B-NB-C1B	-2.39	102.02	106.51
29	wL	301	PEB	CAA-C3A-C2A	2.39	120.22	114.26
29	IG	201	PEB	C1C-CHB-C4B	2.38	131.66	128.81
29	IQ	201	PEB	C1C-CHB-C4B	2.38	131.66	128.81
31	MP	1001	CYC	C4D-CHA-C1A	2.38	131.66	128.81
31	oP	1001	CYC	C4D-CHA-C1A	2.38	131.66	128.81
29	I5	201	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	I8	201	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	KB	203	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	gB	202	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	KM	203	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	gM	202	PEB	OD-C4D-C3D	-2.38	124.06	129.46
29	H4	201	PEB	CMA-C2A-C1A	-2.38	107.26	112.40
29	T7	202	PEB	OD-C4D-ND	-2.38	122.40	125.93
29	T9	202	PEB	OD-C4D-ND	-2.38	122.40	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	fP	1001	CYC	C4D-CHA-C1A	2.38	131.66	128.81
29	T2	201	PEB	C1C-CHB-C4B	-2.38	125.96	128.81
29	VF	202	PEB	CAB-C3B-C4B	2.38	129.23	125.01
29	VI	202	PEB	CAB-C3B-C4B	2.38	129.23	125.01
29	ZF	201	PEB	C4B-C3B-C2B	-2.38	104.14	106.78
29	ZI	201	PEB	C4B-C3B-C2B	-2.38	104.14	106.78
29	HD	201	PEB	CMA-C2A-C1A	-2.38	107.27	112.40
31	kP	1001	CYC	C4D-CHA-C1A	2.38	131.66	128.81
31	wP	1001	CYC	C4D-CHA-C1A	2.38	131.66	128.81
29	gF	202	PEB	CAB-C3B-C4B	2.38	129.22	125.01
29	gI	202	PEB	CAB-C3B-C4B	2.38	129.22	125.01
29	I4	201	PEB	CAA-C3A-C4A	-2.38	106.56	112.67
29	ID	201	PEB	C4B-NB-C1B	-2.38	102.02	106.51
29	GG	202	PEB	C2A-C1A-NA	2.38	110.33	108.27
29	GQ	202	PEB	C2A-C1A-NA	2.38	110.33	108.27
29	c1	201	PEB	C2B-C1B-NB	2.38	115.61	110.53
29	cK	201	PEB	C2B-C1B-NB	2.38	115.61	110.53
29	QR	202	PEB	OD-C4D-ND	-2.38	122.40	125.93
29	C4	201	PEB	C4B-NB-C1B	-2.38	102.03	106.51
29	JQ	203	PEB	CHC-C1D-ND	-2.38	111.18	113.95
29	F4	201	PEB	C2A-C1A-NA	2.38	110.33	108.27
29	J1	1002	PEB	CBA-CAA-C3A	-2.38	108.17	113.47
29	JK	1002	PEB	CBA-CAA-C3A	-2.38	108.17	113.47
29	CA	202	PEB	C2B-C1B-NB	2.38	115.61	110.53
29	CN	202	PEB	C2B-C1B-NB	2.38	115.61	110.53
29	I4	201	PEB	C4B-NB-C1B	-2.38	102.03	106.51
29	e1	203	PEB	C1B-C2B-C3B	-2.38	103.78	106.51
29	LF	1002	PEB	C1B-C2B-C3B	-2.38	103.78	106.51
29	LI	1002	PEB	C1B-C2B-C3B	-2.38	103.78	106.51
29	eK	203	PEB	C1B-C2B-C3B	-2.38	103.78	106.51
31	BP	1001	CYC	C4D-CHA-C1A	2.38	131.65	128.81
29	a7	202	PEB	OD-C4D-ND	-2.38	122.41	125.93
29	a9	202	PEB	OD-C4D-ND	-2.38	122.41	125.93
29	HK	1002	PEB	CBA-CAA-C3A	-2.38	108.17	113.47
29	H4	201	PEB	C2A-C1A-NA	2.38	110.32	108.27
29	zJ	501	PEB	CMB-C2B-C1B	2.38	128.73	125.06
29	g1	201	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	gK	201	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	A8	201	PEB	OD-C4D-C3D	-2.38	124.07	129.46
29	k7	202	PEB	OD-C4D-ND	-2.38	122.41	125.93
29	k9	202	PEB	OD-C4D-ND	-2.38	122.41	125.93
29	i1	203	PEB	C1B-C2B-C3B	-2.38	103.78	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iK	203	PEB	C1B-C2B-C3B	-2.38	103.78	106.51
29	G4	201	PEB	CAA-C3A-C4A	-2.38	106.57	112.67
29	R2	201	PEB	C1C-CHB-C4B	-2.38	125.97	128.81
29	a1	202	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	aK	202	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	SR	201	PEB	CMB-C2B-C1B	2.38	128.72	125.06
29	iB	202	PEB	OD-C4D-C3D	-2.38	124.08	129.46
29	iM	202	PEB	OD-C4D-C3D	-2.38	124.08	129.46
29	xJ	301	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	MQ	406	PEB	CMD-C2D-C3D	2.38	133.42	130.06
29	X2	202	PEB	CBC-CAC-C2C	-2.38	108.56	112.62
29	a7	201	PEB	OD-C4D-C3D	-2.38	124.08	129.46
29	a9	201	PEB	OD-C4D-C3D	-2.38	124.08	129.46
29	A5	201	PEB	OD-C4D-C3D	-2.38	124.08	129.46
29	P1	201	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	k1	202	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	PK	201	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	kK	202	PEB	C2B-C1B-NB	2.38	115.60	110.53
29	i7	201	PEB	CAB-CBB-CGB	-2.38	108.49	113.60
29	i9	201	PEB	CAB-CBB-CGB	-2.38	108.49	113.60
29	V1	201	PEB	C2B-C1B-NB	2.37	115.60	110.53
29	VK	201	PEB	C2B-C1B-NB	2.37	115.60	110.53
29	EG	201	PEB	C1C-CHB-C4B	2.37	131.65	128.81
29	EQ	201	PEB	C1C-CHB-C4B	2.37	131.65	128.81
31	1P	1001	CYC	C4D-CHA-C1A	2.37	131.65	128.81
29	B4	201	PEB	C2A-C1A-NA	2.37	110.32	108.27
31	IP	1001	CYC	C4D-CHA-C1A	2.37	131.64	128.81
31	hP	1001	CYC	C4D-CHA-C1A	2.37	131.64	128.81
29	oJ	201	PEB	CMB-C2B-C3B	-2.37	119.67	126.12
29	oL	201	PEB	CMB-C2B-C3B	-2.37	119.67	126.12
29	aF	202	PEB	CAB-C3B-C4B	2.37	129.21	125.01
29	aI	202	PEB	CAB-C3B-C4B	2.37	129.21	125.01
29	wJ	301	PEB	CAA-C3A-C2A	2.37	120.19	114.26
29	A1	303	PEB	CAC-CBC-CGC	-2.37	107.11	113.76
29	AK	303	PEB	CAC-CBC-CGC	-2.37	107.11	113.76
29	L1	1002	PEB	CBA-CAA-C3A	-2.37	108.19	113.47
29	LK	1002	PEB	CBA-CAA-C3A	-2.37	108.19	113.47
29	cJ	201	PEB	CMB-C2B-C3B	-2.37	119.68	126.12
29	cL	201	PEB	CMB-C2B-C3B	-2.37	119.68	126.12
29	M3	203	PEB	CHA-C1B-NB	-2.37	119.97	124.93
29	MO	203	PEB	CHA-C1B-NB	-2.37	119.97	124.93
29	UJ	201	PEB	CMB-C2B-C3B	-2.37	119.68	126.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	UL	201	PEB	CMB-C2B-C3B	-2.37	119.68	126.12
29	lF	201	PEB	C4B-C3B-C2B	-2.37	104.16	106.78
29	lI	201	PEB	C4B-C3B-C2B	-2.37	104.16	106.78
29	a1	203	PEB	C1B-C2B-C3B	-2.37	103.78	106.51
29	aK	203	PEB	C1B-C2B-C3B	-2.37	103.78	106.51
29	KA	202	PEB	C2B-C1B-NB	2.37	115.59	110.53
29	KN	202	PEB	C2B-C1B-NB	2.37	115.59	110.53
29	k7	201	PEB	OD-C4D-C3D	-2.37	124.09	129.46
29	k9	201	PEB	OD-C4D-C3D	-2.37	124.09	129.46
29	k7	201	PEB	CAB-CBB-CGB	-2.37	108.50	113.60
29	k9	201	PEB	CAB-CBB-CGB	-2.37	108.50	113.60
29	N3	203	PEB	CHA-C1B-NB	-2.37	119.97	124.93
29	GA	202	PEB	C2B-C1B-NB	2.37	115.59	110.53
29	GN	202	PEB	C2B-C1B-NB	2.37	115.59	110.53
29	k1	203	PEB	CHA-C1B-NB	-2.37	119.97	124.93
29	kK	203	PEB	CHA-C1B-NB	-2.37	119.97	124.93
29	I4	203	PEB	CHC-C1D-ND	-2.37	111.19	113.95
29	QR	202	PEB	CHC-C1D-ND	-2.37	111.19	113.95
29	eF	202	PEB	CAB-C3B-C4B	2.37	129.20	125.01
29	eI	202	PEB	CAB-C3B-C4B	2.37	129.20	125.01
29	MD	201	PEB	CAA-C3A-C4A	-2.37	106.59	112.67
29	iF	202	PEB	CAB-C3B-C4B	2.37	129.20	125.01
29	iI	202	PEB	CAB-C3B-C4B	2.37	129.20	125.01
29	P7	202	PEB	OD-C4D-ND	-2.37	122.42	125.93
29	P9	202	PEB	OD-C4D-ND	-2.37	122.42	125.93
29	g1	203	PEB	C1B-C2B-C3B	-2.37	103.79	106.51
29	FF	1002	PEB	C1B-C2B-C3B	-2.37	103.79	106.51
29	FI	1002	PEB	C1B-C2B-C3B	-2.37	103.79	106.51
29	gK	203	PEB	C1B-C2B-C3B	-2.37	103.79	106.51
29	xL	301	PEB	CAA-C3A-C2A	2.37	120.17	114.26
29	DQ	203	PEB	CHC-C1D-ND	-2.37	111.20	113.95
30	MG	403	PUB	OD-C4D-C3D	-2.37	125.47	128.04
29	M4	203	PEB	OD-C4D-ND	-2.37	122.42	125.93
29	K4	201	PEB	CAA-C3A-C4A	-2.37	106.60	112.67
29	AJ	201	PEB	CMB-C2B-C3B	-2.37	119.69	126.12
29	AL	201	PEB	CMB-C2B-C3B	-2.37	119.69	126.12
29	D4	201	PEB	C2A-C1A-NA	2.37	110.31	108.27
29	AB	302	PEB	C2A-C1A-NA	2.37	110.31	108.27
29	g7	201	PEB	OD-C4D-C3D	-2.37	124.10	129.46
29	m7	201	PEB	OD-C4D-C3D	-2.37	124.10	129.46
29	g9	201	PEB	OD-C4D-C3D	-2.37	124.10	129.46
29	m9	201	PEB	OD-C4D-C3D	-2.37	124.10	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	e1	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
29	k1	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
29	eK	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
29	kK	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
31	F7	1001	CYC	CAD-C3D-C2D	-2.37	120.45	127.25
29	WJ	202	PEB	CMB-C2B-C3B	-2.37	119.69	126.12
29	WL	202	PEB	CMB-C2B-C3B	-2.37	119.69	126.12
29	LG	203	PEB	CHC-C1D-ND	-2.37	111.20	113.95
29	ID	201	PEB	CAA-C3A-C4A	-2.37	106.60	112.67
29	a1	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
29	aK	201	PEB	C2B-C1B-NB	2.37	115.58	110.53
29	OR	201	PEB	CAB-CBB-CGB	-2.36	108.51	113.60
29	Y1	201	PEB	C2B-C1B-NB	2.36	115.58	110.53
29	YK	201	PEB	C2B-C1B-NB	2.36	115.58	110.53
29	H1	1002	PEB	CBA-CAA-C3A	-2.36	108.20	113.47
29	KJ	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	gJ	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	KL	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	gL	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	m7	202	PEB	OD-C4D-ND	-2.36	122.43	125.93
29	m9	202	PEB	OD-C4D-ND	-2.36	122.43	125.93
29	KD	201	PEB	CAA-C3A-C4A	-2.36	106.60	112.67
29	V7	202	PEB	OD-C4D-ND	-2.36	122.43	125.93
29	V9	202	PEB	OD-C4D-ND	-2.36	122.43	125.93
29	uJ	202	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	uL	202	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	R7	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	R9	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	MJ	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	ML	201	PEB	CMB-C2B-C3B	-2.36	119.70	126.12
29	YF	202	PEB	CAB-C3B-C4B	2.36	129.19	125.01
29	YI	202	PEB	CAB-C3B-C4B	2.36	129.19	125.01
29	V7	201	PEB	OD-C4D-C3D	-2.36	124.11	129.46
29	V9	201	PEB	OD-C4D-C3D	-2.36	124.11	129.46
31	qP	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
29	GD	201	PEB	CAA-C3A-C4A	-2.36	106.61	112.67
31	M9	1001	CYC	OB-C4B-C3B	-2.36	125.48	128.04
29	xJ	301	PEB	CAA-C3A-C2A	2.36	120.16	114.26
31	NF	1001	CYC	C1A-C2A-C3A	-2.36	104.17	106.78
31	NI	1001	CYC	C1A-C2A-C3A	-2.36	104.17	106.78
29	eJ	201	PEB	CMB-C2B-C3B	-2.36	119.71	126.12
29	eL	201	PEB	CMB-C2B-C3B	-2.36	119.71	126.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Y7	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	Y9	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	c7	201	PEB	OD-C4D-C3D	-2.36	124.11	129.46
29	c9	201	PEB	OD-C4D-C3D	-2.36	124.11	129.46
31	QP	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
29	T7	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	T9	201	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	MA	404	PEB	C2A-C1A-NA	2.36	110.31	108.27
29	MG	404	PEB	CAB-CBB-CGB	-2.36	108.52	113.60
29	c1	203	PEB	C1B-C2B-C3B	-2.36	103.80	106.51
29	cK	203	PEB	C1B-C2B-C3B	-2.36	103.80	106.51
29	yJ	301	PEB	CAB-C3B-C4B	2.36	129.18	125.01
29	yL	301	PEB	CAB-C3B-C4B	2.36	129.18	125.01
29	iJ	201	PEB	CMB-C2B-C3B	-2.36	119.71	126.12
29	iL	201	PEB	CMB-C2B-C3B	-2.36	119.71	126.12
30	A7	303	PUB	CMD-C2D-C3D	2.36	131.31	127.77
30	A9	303	PUB	CMD-C2D-C3D	2.36	131.31	127.77
29	i7	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	i9	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	g7	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	g9	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
31	HP	1001	CYC	C4D-CHA-C1A	2.36	131.63	128.81
29	m7	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	m9	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	Y7	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	Y9	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	YJ	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	YL	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	JD	201	PEB	C2A-C1A-NA	2.36	110.31	108.27
29	xL	301	PEB	C2B-C1B-NB	2.36	115.56	110.53
29	P7	201	PEB	OD-C4D-C3D	-2.36	124.12	129.46
29	P9	201	PEB	OD-C4D-C3D	-2.36	124.12	129.46
29	EJ	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	EL	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	g1	203	PEB	CHA-C1B-NB	-2.36	120.00	124.93
29	gK	203	PEB	CHA-C1B-NB	-2.36	120.00	124.93
29	CD	201	PEB	C4B-NB-C1B	-2.36	102.07	106.51
29	K4	201	PEB	C4B-NB-C1B	-2.36	102.07	106.51
29	CJ	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	CL	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	R1	201	PEB	C2B-C1B-NB	2.36	115.56	110.53
29	RK	201	PEB	C2B-C1B-NB	2.36	115.56	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Y7	201	PEB	OD-C4D-C3D	-2.36	124.12	129.46
29	Y9	201	PEB	OD-C4D-C3D	-2.36	124.12	129.46
29	NO	202	PEB	CMB-C2B-C1B	2.36	128.69	125.06
29	W2	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	MQ	406	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	UR	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	m1	202	PEB	CHA-C1B-NB	-2.36	120.00	124.93
29	mK	202	PEB	CHA-C1B-NB	-2.36	120.00	124.93
29	EA	202	PEB	C2B-C1B-NB	2.36	115.56	110.53
29	EN	202	PEB	C2B-C1B-NB	2.36	115.56	110.53
29	c7	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	c9	202	PEB	OD-C4D-ND	-2.36	122.44	125.93
29	HD	201	PEB	C2A-C1A-NA	2.36	110.30	108.27
29	M3	202	PEB	CMB-C2B-C1B	2.36	128.69	125.06
29	MO	202	PEB	CMB-C2B-C1B	2.36	128.69	125.06
29	JF	1002	PEB	C1B-C2B-C3B	-2.36	103.80	106.51
29	JI	1002	PEB	C1B-C2B-C3B	-2.36	103.80	106.51
29	M4	201	PEB	CAA-C3A-C4A	-2.36	106.62	112.67
29	M4	201	PEB	C4B-NB-C1B	-2.36	102.07	106.51
29	MD	201	PEB	C4B-NB-C1B	-2.36	102.07	106.51
29	V7	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	e7	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	V9	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	e9	201	PEB	CAB-CBB-CGB	-2.36	108.53	113.60
29	DG	201	PEB	CHB-C4B-C3B	-2.36	119.88	125.32
29	DQ	201	PEB	CHB-C4B-C3B	-2.36	119.88	125.32
29	UF	201	PEB	CAB-C3B-C4B	2.36	129.18	125.01
29	UI	201	PEB	CAB-C3B-C4B	2.36	129.18	125.01
29	OJ	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	OL	201	PEB	CMB-C2B-C3B	-2.36	119.72	126.12
29	IA	202	PEB	C2B-C1B-NB	2.35	115.56	110.53
29	IN	202	PEB	C2B-C1B-NB	2.35	115.56	110.53
31	G9	1001	CYC	OB-C4B-C3B	-2.35	125.48	128.04
31	DF	1001	CYC	C1A-C2A-C3A	-2.35	104.18	106.78
31	DI	1001	CYC	C1A-C2A-C3A	-2.35	104.18	106.78
31	F9	1001	CYC	CAD-C3D-C2D	-2.35	120.48	127.25
29	AA	202	PEB	C2B-C1B-NB	2.35	115.55	110.53
29	AN	202	PEB	C2B-C1B-NB	2.35	115.55	110.53
31	XP	1001	CYC	C4D-CHA-C1A	2.35	131.62	128.81
31	K9	1001	CYC	OB-C4B-C3B	-2.35	125.49	128.04
29	IJ	201	PEB	CMB-C2B-C3B	-2.35	119.73	126.12
29	IL	201	PEB	CMB-C2B-C3B	-2.35	119.73	126.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	xJ	303	PEB	CMB-C2B-C3B	2.35	132.51	126.12
29	m1	201	PEB	C2B-C1B-NB	2.35	115.55	110.53
29	mK	201	PEB	C2B-C1B-NB	2.35	115.55	110.53
29	QJ	201	PEB	CMB-C2B-C3B	-2.35	119.73	126.12
29	QL	201	PEB	CMB-C2B-C3B	-2.35	119.73	126.12
29	GG	201	PEB	C1C-CHB-C4B	2.35	131.62	128.81
29	GQ	201	PEB	C1C-CHB-C4B	2.35	131.62	128.81
29	EB	202	PEB	CMC-C3C-C2C	2.35	129.38	124.94
29	EM	202	PEB	CMC-C3C-C2C	2.35	129.38	124.94
29	BG	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32
29	JG	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32
29	BQ	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32
29	JQ	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32
29	T1	202	PEB	CHA-C1B-NB	-2.35	120.01	124.93
29	V1	203	PEB	CHA-C1B-NB	-2.35	120.01	124.93
29	TK	202	PEB	CHA-C1B-NB	-2.35	120.01	124.93
29	VK	203	PEB	CHA-C1B-NB	-2.35	120.01	124.93
29	NR	201	PEB	C1C-CHB-C4B	-2.35	126.00	128.81
29	fB	202	PEB	CMC-C3C-C2C	2.35	129.38	124.94
29	fM	202	PEB	CMC-C3C-C2C	2.35	129.38	124.94
29	e1	203	PEB	CHA-C1B-NB	-2.35	120.02	124.93
29	eK	203	PEB	CHA-C1B-NB	-2.35	120.02	124.93
29	dD	401	PEB	CAA-C3A-C4A	-2.35	106.64	112.67
29	AM	302	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	mJ	201	PEB	CMB-C2B-C3B	-2.35	119.74	126.12
29	mL	201	PEB	CMB-C2B-C3B	-2.35	119.74	126.12
30	MG	402	PUB	CMA-C2A-C1A	2.35	126.92	121.39
29	e7	201	PEB	OD-C4D-C3D	-2.35	124.14	129.46
29	e9	201	PEB	OD-C4D-C3D	-2.35	124.14	129.46
29	e7	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	e9	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	zJ	501	PEB	CHA-C1B-NB	-2.35	120.02	124.93
29	MR	202	PEB	CAB-C3B-C4B	2.35	129.16	125.01
29	c7	201	PEB	CAB-CBB-CGB	-2.35	108.55	113.60
29	c9	201	PEB	CAB-CBB-CGB	-2.35	108.55	113.60
29	c1	203	PEB	CHA-C1B-NB	-2.35	120.02	124.93
29	cK	203	PEB	CHA-C1B-NB	-2.35	120.02	124.93
29	SJ	201	PEB	CMB-C2B-C3B	-2.35	119.74	126.12
29	SL	201	PEB	CMB-C2B-C3B	-2.35	119.74	126.12
29	BQ	203	PEB	CHC-C1D-ND	-2.35	111.22	113.95
29	FG	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32
29	FQ	201	PEB	CHB-C4B-C3B	-2.35	119.89	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	MQ	405	PUB	OD-C4D-C3D	-2.35	125.49	128.04
31	N7	1001	CYC	CAD-C3D-C2D	-2.35	120.50	127.25
31	N9	1001	CYC	CAD-C3D-C2D	-2.35	120.50	127.25
29	ZB	201	PEB	C1B-C2B-C3B	-2.35	103.81	106.51
29	ZM	201	PEB	C1B-C2B-C3B	-2.35	103.81	106.51
29	a7	201	PEB	CAB-CBB-CGB	-2.35	108.55	113.60
29	a9	201	PEB	CAB-CBB-CGB	-2.35	108.55	113.60
29	g7	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	g9	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	aJ	201	PEB	CMB-C2B-C3B	-2.35	119.75	126.12
29	aL	201	PEB	CMB-C2B-C3B	-2.35	119.75	126.12
29	R7	201	PEB	OD-C4D-C3D	-2.35	124.14	129.46
29	R9	201	PEB	OD-C4D-C3D	-2.35	124.14	129.46
29	i1	201	PEB	C2B-C1B-NB	2.35	115.54	110.53
29	iK	201	PEB	C2B-C1B-NB	2.35	115.54	110.53
29	R7	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	R9	202	PEB	OD-C4D-ND	-2.35	122.45	125.93
29	T1	201	PEB	C2B-C1B-NB	2.35	115.53	110.53
29	TK	201	PEB	C2B-C1B-NB	2.35	115.53	110.53
31	HF	1001	CYC	C1A-C2A-C3A	-2.35	104.19	106.78
31	HI	1001	CYC	C1A-C2A-C3A	-2.35	104.19	106.78
29	PB	201	PEB	C1B-C2B-C3B	-2.35	103.81	106.51
29	PM	201	PEB	C1B-C2B-C3B	-2.35	103.81	106.51
29	kF	202	PEB	CAB-C3B-C4B	2.35	129.16	125.01
29	kI	202	PEB	CAB-C3B-C4B	2.35	129.16	125.01
29	R2	203	PEB	CHA-C1B-NB	-2.34	120.03	124.93
31	G7	1001	CYC	OB-C4B-C3B	-2.34	125.50	128.04
29	GB	202	PEB	CMC-C3C-C2C	2.34	129.36	124.94
29	GM	202	PEB	CMC-C3C-C2C	2.34	129.36	124.94
29	MR	201	PEB	CAB-CBB-CGB	-2.34	108.56	113.60
29	jB	202	PEB	CMC-C3C-C2C	2.34	129.36	124.94
29	jM	202	PEB	CMC-C3C-C2C	2.34	129.36	124.94
31	JF	1001	CYC	C1A-C2A-C3A	-2.34	104.19	106.78
31	JI	1001	CYC	C1A-C2A-C3A	-2.34	104.19	106.78
29	kJ	201	PEB	CMB-C2B-C3B	-2.34	119.75	126.12
29	kL	201	PEB	CMB-C2B-C3B	-2.34	119.75	126.12
29	xL	303	PEB	CMB-C2B-C3B	2.34	132.48	126.12
29	P7	201	PEB	CAB-CBB-CGB	-2.34	108.56	113.60
29	P9	201	PEB	CAB-CBB-CGB	-2.34	108.56	113.60
29	K4	202	PEB	CAB-C3B-C4B	2.34	129.15	125.01
29	CD	201	PEB	CAA-C3A-C4A	-2.34	106.66	112.67
29	qJ	201	PEB	CMB-C2B-C3B	-2.34	119.76	126.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	qL	201	PEB	CMB-C2B-C3B	-2.34	119.76	126.12
29	HG	201	PEB	CHB-C4B-C3B	-2.34	119.91	125.32
29	HQ	201	PEB	CHB-C4B-C3B	-2.34	119.91	125.32
29	DA	201	PEB	CBC-CAC-C2C	-2.34	108.62	112.62
29	DN	201	PEB	CBC-CAC-C2C	-2.34	108.62	112.62
29	T7	201	PEB	OD-C4D-C3D	-2.34	124.15	129.46
29	T9	201	PEB	OD-C4D-C3D	-2.34	124.15	129.46
29	E4	201	PEB	CAA-C3A-C4A	-2.34	106.66	112.67
29	NO	203	PEB	CHA-C1B-NB	-2.34	120.03	124.93
29	i7	201	PEB	OD-C4D-C3D	-2.34	124.15	129.46
29	i9	201	PEB	OD-C4D-C3D	-2.34	124.15	129.46
29	cB	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	iB	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	cM	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	iM	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	O2	201	PEB	CAB-CBB-CGB	-2.34	108.56	113.60
29	GJ	201	PEB	CMB-C2B-C3B	-2.34	119.76	126.12
29	GL	201	PEB	CMB-C2B-C3B	-2.34	119.76	126.12
29	AB	302	PEB	OD-C4D-ND	-2.34	122.46	125.93
29	kB	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	kM	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
31	DF	1001	CYC	CMB-C2B-C1B	2.34	127.09	124.17
31	DI	1001	CYC	CMB-C2B-C1B	2.34	127.09	124.17
29	i1	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	iK	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	M2	201	PEB	CAB-CBB-CGB	-2.34	108.57	113.60
29	P2	202	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	WR	201	PEB	CAB-CBB-CGB	-2.34	108.57	113.60
29	X2	202	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	DG	203	PEB	CHC-C1D-ND	-2.34	111.23	113.95
29	CG	201	PEB	C1C-CHB-C4B	2.34	131.60	128.81
29	CQ	201	PEB	C1C-CHB-C4B	2.34	131.60	128.81
29	a1	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	aK	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	FD	201	PEB	C2A-C1A-NA	2.34	110.29	108.27
29	JB	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	JM	201	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	NO	203	PEB	C1B-C2B-C3B	-2.34	103.82	106.51
29	Y1	202	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	N2	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	YK	202	PEB	CHA-C1B-NB	-2.34	120.04	124.93
29	NR	203	PEB	CHA-C1B-NB	-2.34	120.04	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KG	201	PEB	C1C-CHB-C4B	2.34	131.60	128.81
29	KQ	201	PEB	C1C-CHB-C4B	2.34	131.60	128.81
29	sJ	201	PEB	CMB-C2B-C3B	-2.34	119.77	126.12
29	sL	201	PEB	CMB-C2B-C3B	-2.34	119.77	126.12
29	Q2	201	PEB	CAB-CBB-CGB	-2.34	108.57	113.60
29	MQ	407	PEB	CAA-C3A-C2A	-2.34	108.42	114.26
29	GD	202	PEB	CAB-C3B-C4B	2.34	129.14	125.01
29	aB	202	PEB	CMC-C3C-C2C	2.34	129.35	124.94
29	aM	202	PEB	CMC-C3C-C2C	2.34	129.35	124.94
30	MN	402	PUB	CMA-C2A-C1A	2.34	126.89	121.39
29	BA	201	PEB	CBC-CAC-C2C	-2.34	108.63	112.62
29	BN	201	PEB	CBC-CAC-C2C	-2.34	108.63	112.62
29	XR	203	PEB	CHA-C1B-NB	-2.34	120.05	124.93
29	wL	303	PEB	CMB-C2B-C3B	2.34	132.46	126.12
29	KD	202	PEB	C2B-C1B-NB	2.34	115.51	110.53
31	E7	1001	CYC	OB-C4B-C3B	-2.34	125.51	128.04
31	E9	1001	CYC	OB-C4B-C3B	-2.34	125.51	128.04
29	KD	201	PEB	C4B-NB-C1B	-2.34	102.11	106.51
29	FB	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
29	FM	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
31	FF	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
31	FI	1001	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
29	M4	202	PEB	CAB-C3B-C4B	2.33	129.14	125.01
29	UB	202	PEB	CMC-C3C-C2C	2.33	129.34	124.94
29	MQ	401	PEB	CMC-C3C-C2C	2.33	129.34	124.94
29	KD	202	PEB	CAB-C3B-C4B	2.33	129.14	125.01
29	AF	304	PEB	OD-C4D-C3D	-2.33	124.17	129.46
29	AI	304	PEB	OD-C4D-C3D	-2.33	124.17	129.46
29	R1	203	PEB	CHA-C1B-NB	-2.33	120.05	124.93
29	RK	203	PEB	CHA-C1B-NB	-2.33	120.05	124.93
31	D7	1001	CYC	CAD-C3D-C2D	-2.33	120.54	127.25
31	D9	1001	CYC	CAD-C3D-C2D	-2.33	120.54	127.25
29	GC	201	PEB	CHA-C1B-NB	-2.33	120.05	124.93
29	GE	201	PEB	CHA-C1B-NB	-2.33	120.05	124.93
31	CF	1001	CYC	OB-C4B-NB	-2.33	119.66	125.08
31	CI	1001	CYC	OB-C4B-NB	-2.33	119.66	125.08
29	TB	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
29	TM	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
29	ID	202	PEB	CAB-C3B-C4B	2.33	129.13	125.01
29	FQ	203	PEB	CHC-C1D-ND	-2.33	111.24	113.95
29	EG	202	PEB	C2A-C1A-NA	2.33	110.28	108.27
29	EQ	202	PEB	C2A-C1A-NA	2.33	110.28	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mB	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
29	mM	201	PEB	C1B-C2B-C3B	-2.33	103.83	106.51
29	T2	203	PEB	CHA-C1B-NB	-2.33	120.06	124.93
29	AG	202	PEB	C2A-C1A-NA	2.33	110.28	108.27
29	AQ	202	PEB	C2A-C1A-NA	2.33	110.28	108.27
29	C4	201	PEB	CAA-C3A-C4A	-2.33	106.69	112.67
29	FA	201	PEB	CBC-CAC-C2C	-2.33	108.64	112.62
29	FN	201	PEB	CBC-CAC-C2C	-2.33	108.64	112.62
30	MA	402	PUB	CMA-C2A-C1A	2.33	126.87	121.39
29	VR	203	PEB	CHA-C1B-NB	-2.33	120.06	124.93
29	L3	202	PEB	CAB-C3B-C4B	2.33	129.13	125.01
29	LO	202	PEB	CAB-C3B-C4B	2.33	129.13	125.01
29	AM	302	PEB	C2A-C1A-NA	2.33	110.28	108.27
29	wJ	301	PEB	C2B-C1B-NB	2.33	115.50	110.53
31	K7	1001	CYC	OB-C4B-C3B	-2.33	125.51	128.04
29	MB	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
29	MM	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
31	L7	1001	CYC	CAD-C3D-C2D	-2.33	120.56	127.25
31	KF	1001	CYC	OB-C4B-NB	-2.33	119.67	125.08
29	MD	202	PEB	C2B-C1B-NB	2.33	115.50	110.53
31	L9	1001	CYC	CAD-C3D-C2D	-2.33	120.56	127.25
29	IB	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
29	IM	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
29	AB	303	PEB	OD-C4D-ND	-2.33	122.48	125.93
29	LG	201	PEB	CHB-C4B-C3B	-2.33	119.95	125.32
29	MQ	402	PEB	CHB-C4B-C3B	-2.33	119.95	125.32
29	MD	202	PEB	CAB-C3B-C4B	2.33	129.12	125.01
29	E4	202	PEB	C2B-C1B-NB	2.33	115.49	110.53
29	MG	405	PEB	CAA-C3A-C2A	-2.33	108.45	114.26
29	PR	202	PEB	CHA-C1B-NB	-2.33	120.07	124.93
31	H7	1001	CYC	CAD-C3D-C2D	-2.33	120.56	127.25
31	H9	1001	CYC	CAD-C3D-C2D	-2.33	120.56	127.25
29	hB	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
29	hM	202	PEB	CMC-C3C-C2C	2.33	129.33	124.94
29	NB	201	PEB	C1B-C2B-C3B	-2.32	103.84	106.51
29	NM	201	PEB	C1B-C2B-C3B	-2.32	103.84	106.51
29	P1	203	PEB	CHA-C1B-NB	-2.32	120.07	124.93
29	PK	203	PEB	CHA-C1B-NB	-2.32	120.07	124.93
29	CB	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	CM	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	KB	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	SB	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	KM	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	SM	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	QR	201	PEB	CAB-CBB-CGB	-2.32	108.60	113.60
31	LF	1001	CYC	C1A-C2A-C3A	-2.32	104.21	106.78
31	LI	1001	CYC	C1A-C2A-C3A	-2.32	104.21	106.78
31	J7	1001	CYC	CAD-C3D-C2D	-2.32	120.57	127.25
29	MN	404	PEB	CHA-C1B-C2B	2.32	130.87	124.90
29	E4	202	PEB	CAB-C3B-C4B	2.32	129.12	125.01
29	D3	203	PEB	CAB-C3B-C4B	2.32	129.12	125.01
29	DO	203	PEB	CAB-C3B-C4B	2.32	129.12	125.01
31	EF	1001	CYC	OB-C4B-NB	-2.32	119.68	125.08
31	EI	1001	CYC	OB-C4B-NB	-2.32	119.68	125.08
29	SF	201	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	SI	201	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	HA	201	PEB	CBC-CAC-C2C	-2.32	108.66	112.62
29	HN	201	PEB	CBC-CAC-C2C	-2.32	108.66	112.62
29	YB	203	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	YM	203	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	LB	201	PEB	C1B-C2B-C3B	-2.32	103.84	106.51
29	LM	201	PEB	C1B-C2B-C3B	-2.32	103.84	106.51
29	PF	203	PEB	CHC-C1D-ND	-2.32	111.25	113.95
29	PI	203	PEB	CHC-C1D-ND	-2.32	111.25	113.95
29	G4	202	PEB	CAB-C3B-C4B	2.32	129.11	125.01
29	AC	201	PEB	CHA-C1B-NB	-2.32	120.08	124.93
29	AE	201	PEB	CHA-C1B-NB	-2.32	120.08	124.93
29	OB	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	OM	202	PEB	CMC-C3C-C2C	2.32	129.32	124.94
29	yJ	301	PEB	OD-C4D-C3D	-2.32	124.20	129.46
29	yL	301	PEB	OD-C4D-C3D	-2.32	124.20	129.46
29	LD	201	PEB	C2A-C1A-NA	2.32	110.27	108.27
31	M7	1001	CYC	OB-C4B-C3B	-2.32	125.52	128.04
29	wL	301	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	N3	202	PEB	CMB-C2B-C1B	2.32	128.64	125.06
29	M4	202	PEB	C2B-C1B-NB	2.32	115.48	110.53
30	xL	304	PUB	C1D-CHC-C4C	-2.32	108.32	113.37
29	wJ	303	PEB	CMB-C2B-C3B	2.32	132.41	126.12
29	FG	203	PEB	CHC-C1D-ND	-2.32	111.25	113.95
29	CD	202	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	WF	201	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	WI	201	PEB	C2B-C1B-NB	2.32	115.48	110.53
29	gB	201	PEB	C1B-C2B-C3B	-2.32	103.85	106.51
29	gM	201	PEB	C1B-C2B-C3B	-2.32	103.85	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J4	201	PEB	C2A-C1A-NA	2.32	110.27	108.27
29	T7	202	PEB	CAA-C3A-C4A	-2.32	106.72	112.67
29	T9	202	PEB	CAA-C3A-C4A	-2.32	106.72	112.67
29	I4	202	PEB	CAB-C3B-C4B	2.32	129.11	125.01
29	DG	203	PEB	CAC-CBC-CGC	-2.32	107.26	113.76
29	H3	203	PEB	CAB-C3B-C4B	2.32	129.11	125.01
29	HO	203	PEB	CAB-C3B-C4B	2.32	129.11	125.01
29	L1	1002	PEB	CHA-C1B-NB	-2.32	120.09	124.93
29	LK	1002	PEB	CHA-C1B-NB	-2.32	120.09	124.93
31	HF	1001	CYC	CMB-C2B-C1B	2.32	127.06	124.17
31	HI	1001	CYC	CMB-C2B-C1B	2.32	127.06	124.17
29	EC	201	PEB	CHA-C1B-NB	-2.32	120.09	124.93
29	EE	201	PEB	CHA-C1B-NB	-2.32	120.09	124.93
29	HG	203	PEB	CAC-CBC-CGC	-2.32	107.27	113.76
29	fF	201	PEB	C2B-C1B-NB	2.32	115.47	110.53
29	fI	201	PEB	C2B-C1B-NB	2.32	115.47	110.53
29	dF	202	PEB	C2B-C1B-NB	2.32	115.47	110.53
29	dI	202	PEB	C2B-C1B-NB	2.32	115.47	110.53
31	NF	1001	CYC	CMB-C2B-C1B	2.32	127.06	124.17
31	NI	1001	CYC	CMB-C2B-C1B	2.32	127.06	124.17
29	RR	203	PEB	CHA-C1B-NB	-2.31	120.09	124.93
29	K4	202	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	TR	203	PEB	CHA-C1B-NB	-2.31	120.09	124.93
29	g1	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	gK	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	hF	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	hI	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	ED	201	PEB	CAB-C3B-C4B	2.31	129.10	125.01
29	g7	202	PEB	CAA-C3A-C4A	-2.31	106.73	112.67
29	g9	202	PEB	CAA-C3A-C4A	-2.31	106.73	112.67
29	C4	202	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	bF	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	bI	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
31	JF	1001	CYC	CMB-C2B-C1B	2.31	127.06	124.17
31	JI	1001	CYC	CMB-C2B-C1B	2.31	127.06	124.17
29	c1	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	cK	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	eB	201	PEB	C1B-C2B-C3B	-2.31	103.85	106.51
29	eM	201	PEB	C1B-C2B-C3B	-2.31	103.85	106.51
29	J5	202	PEB	C2A-C1A-NA	2.31	110.27	108.27
29	J8	202	PEB	C2A-C1A-NA	2.31	110.27	108.27
29	IG	202	PEB	C2A-C1A-NA	2.31	110.27	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IQ	202	PEB	C2A-C1A-NA	2.31	110.27	108.27
29	k1	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	kK	203	PEB	OD-C4D-C3D	-2.31	124.22	129.46
29	DA	203	PEB	CHA-C1B-NB	-2.31	120.09	124.93
29	DN	203	PEB	CHA-C1B-NB	-2.31	120.09	124.93
29	JG	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	JQ	201	PEB	C2B-C1B-NB	2.31	115.47	110.53
29	JA	201	PEB	CBC-CAC-C2C	-2.31	108.67	112.62
29	JN	201	PEB	CBC-CAC-C2C	-2.31	108.67	112.62
29	H1	1002	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	F3	203	PEB	CAB-C3B-C4B	2.31	129.10	125.01
29	FO	203	PEB	CAB-C3B-C4B	2.31	129.10	125.01
29	FA	203	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	FN	203	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	QF	201	PEB	C2B-C1B-NB	2.31	115.46	110.53
29	QI	201	PEB	C2B-C1B-NB	2.31	115.46	110.53
29	N2	201	PEB	C1C-CHB-C4B	-2.31	126.05	128.81
31	J9	1001	CYC	CAD-C3D-C2D	-2.31	120.61	127.25
29	J1	1002	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	JK	1002	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	L4	201	PEB	CMD-C2D-C3D	2.31	133.32	130.06
31	C7	1001	CYC	OB-C4B-C3B	-2.31	125.53	128.04
31	C9	1001	CYC	OB-C4B-C3B	-2.31	125.53	128.04
29	IC	201	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	IE	201	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	cF	201	PEB	CHB-C4B-C3B	-2.31	119.98	125.32
29	cI	201	PEB	CHB-C4B-C3B	-2.31	119.98	125.32
29	VB	201	PEB	C1B-C2B-C3B	-2.31	103.86	106.51
29	VM	201	PEB	C1B-C2B-C3B	-2.31	103.86	106.51
31	FF	1001	CYC	CMB-C2B-C1B	2.31	127.05	124.17
31	FI	1001	CYC	CMB-C2B-C1B	2.31	127.05	124.17
29	lF	201	PEB	CMA-C2A-C1A	-2.31	107.42	112.40
29	II	201	PEB	CMA-C2A-C1A	-2.31	107.42	112.40
31	KI	1001	CYC	OB-C4B-NB	-2.31	119.71	125.08
29	B3	203	PEB	CAB-C3B-C4B	2.31	129.09	125.01
29	CD	202	PEB	CAB-C3B-C4B	2.31	129.09	125.01
29	BO	203	PEB	CAB-C3B-C4B	2.31	129.09	125.01
30	MQ	405	PUB	CHA-C1B-C2B	-2.31	126.40	130.34
29	KC	202	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	KE	202	PEB	CHA-C1B-NB	-2.31	120.10	124.93
29	P7	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67
29	P9	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HQ	203	PEB	CAC-CBC-CGC	-2.31	107.29	113.76
29	Y1	202	PEB	OD-C4D-C3D	-2.31	124.23	129.46
29	YK	202	PEB	OD-C4D-C3D	-2.31	124.23	129.46
29	e7	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67
29	e9	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67
29	J3	203	PEB	CAB-C3B-C4B	2.31	129.09	125.01
29	JO	203	PEB	CAB-C3B-C4B	2.31	129.09	125.01
31	HF	1001	CYC	CBD-CAD-C3D	2.31	116.56	112.62
31	HI	1001	CYC	CBD-CAD-C3D	2.31	116.56	112.62
29	MA	405	PEB	CHA-C4A-NA	2.31	127.95	125.20
29	N3	203	PEB	C1B-C2B-C3B	-2.31	103.86	106.51
29	C4	202	PEB	CAB-C3B-C4B	2.31	129.09	125.01
29	c7	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67
29	c9	202	PEB	CAA-C3A-C4A	-2.31	106.75	112.67
29	VF	201	PEB	CHB-C4B-C3B	-2.31	119.99	125.32
29	VI	201	PEB	CHB-C4B-C3B	-2.31	119.99	125.32
29	aF	201	PEB	CHB-C4B-C3B	-2.31	120.00	125.32
29	aI	201	PEB	CHB-C4B-C3B	-2.31	120.00	125.32
29	LQ	202	PEB	CAC-CBC-CGC	-2.30	107.30	113.76
29	ZF	201	PEB	CMA-C2A-C1A	-2.30	107.44	112.40
29	ZI	201	PEB	CMA-C2A-C1A	-2.30	107.44	112.40
29	XB	201	PEB	C1B-C2B-C3B	-2.30	103.86	106.51
29	XM	201	PEB	C1B-C2B-C3B	-2.30	103.86	106.51
29	kF	201	PEB	CHB-C4B-C3B	-2.30	120.00	125.32
29	TI	201	PEB	CHB-C4B-C3B	-2.30	120.00	125.32
29	kI	201	PEB	CHB-C4B-C3B	-2.30	120.00	125.32
29	k7	202	PEB	CAA-C3A-C4A	-2.30	106.76	112.67
29	k9	202	PEB	CAA-C3A-C4A	-2.30	106.76	112.67
29	CG	202	PEB	C2A-C1A-NA	2.30	110.26	108.27
29	CQ	202	PEB	C2A-C1A-NA	2.30	110.26	108.27
29	C3	201	PEB	CBC-CAC-C2C	-2.30	108.69	112.62
29	CO	201	PEB	CBC-CAC-C2C	-2.30	108.69	112.62
29	YF	203	PEB	CHC-C1D-ND	-2.30	111.27	113.95
29	YI	203	PEB	CHC-C1D-ND	-2.30	111.27	113.95
29	QB	204	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	dB	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	QM	204	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	dM	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
31	LF	1001	CYC	CMB-C2B-C1B	2.30	127.04	124.17
31	LI	1001	CYC	CMB-C2B-C1B	2.30	127.04	124.17
29	ED	201	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	D4	201	PEB	CMD-C2D-C3D	2.30	133.31	130.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A7	303	PUB	CBC-CAC-C2C	-2.30	106.23	112.63
30	A9	303	PUB	CBC-CAC-C2C	-2.30	106.23	112.63
31	IF	1001	CYC	OB-C4B-NB	-2.30	119.73	125.08
31	II	1001	CYC	OB-C4B-NB	-2.30	119.73	125.08
29	HK	1002	PEB	CHA-C1B-NB	-2.30	120.12	124.93
29	eF	201	PEB	CHB-C4B-C3B	-2.30	120.00	125.32
29	eI	201	PEB	CHB-C4B-C3B	-2.30	120.00	125.32
29	LA	201	PEB	CBC-CAC-C2C	-2.30	108.69	112.62
29	LN	201	PEB	CBC-CAC-C2C	-2.30	108.69	112.62
29	G4	202	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	DK	1002	PEB	CHA-C1B-NB	-2.30	120.12	124.93
30	yJ	303	PUB	C2C-C1C-NC	2.30	113.40	110.05
31	M7	1001	CYC	CAA-CBA-CGA	-2.30	108.65	113.60
29	jF	201	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	BG	201	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	jI	201	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	BQ	201	PEB	C2B-C1B-NB	2.30	115.44	110.53
29	R1	203	PEB	OD-C4D-C3D	-2.30	124.25	129.46
29	RK	203	PEB	OD-C4D-C3D	-2.30	124.25	129.46
29	dF	202	PEB	CMA-C2A-C1A	-2.30	107.44	112.40
29	dI	202	PEB	CMA-C2A-C1A	-2.30	107.44	112.40
29	lB	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	lM	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	e7	203	PEB	CAC-CBC-CGC	-2.30	107.31	113.76
29	e9	203	PEB	CAC-CBC-CGC	-2.30	107.31	113.76
29	WB	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
29	WM	202	PEB	CMC-C3C-C2C	2.30	129.28	124.94
30	yJ	302	PUB	CAD-C3D-C4D	2.30	125.01	121.38
30	yL	302	PUB	CAD-C3D-C4D	2.30	125.01	121.38
29	i7	202	PEB	CAA-C3A-C4A	-2.30	106.77	112.67
29	i9	202	PEB	CAA-C3A-C4A	-2.30	106.77	112.67
29	LD	201	PEB	CMD-C2D-C3D	2.30	133.31	130.06
29	F1	1002	PEB	CHA-C1B-NB	-2.30	120.12	124.93
29	FK	1002	PEB	CHA-C1B-NB	-2.30	120.12	124.93
29	CC	201	PEB	CHA-C1B-NB	-2.30	120.12	124.93
29	CE	201	PEB	CHA-C1B-NB	-2.30	120.12	124.93
29	P7	203	PEB	CAC-CBC-CGC	-2.30	107.31	113.76
29	P9	203	PEB	CAC-CBC-CGC	-2.30	107.31	113.76
29	lB	202	PEB	CBC-CAC-C2C	-2.30	108.70	112.62
29	lM	202	PEB	CBC-CAC-C2C	-2.30	108.70	112.62
31	G7	1001	CYC	CAA-CBA-CGA	-2.30	108.66	113.60
29	DG	202	PEB	C4B-C3B-C2B	-2.30	104.24	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DQ	202	PEB	C4B-C3B-C2B	-2.30	104.24	106.78
29	TF	202	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	cF	202	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	TI	202	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	cI	202	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	m7	202	PEB	CAA-C3A-C4A	-2.30	106.77	112.67
29	m9	202	PEB	CAA-C3A-C4A	-2.30	106.77	112.67
29	Y7	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	Y9	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	JQ	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	DQ	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	DG	201	PEB	C2B-C1B-NB	2.30	115.43	110.53
29	DQ	201	PEB	C2B-C1B-NB	2.30	115.43	110.53
29	bF	201	PEB	CMA-C2A-C1A	-2.30	107.45	112.40
29	bI	201	PEB	CMA-C2A-C1A	-2.30	107.45	112.40
29	JA	203	PEB	CHA-C1B-NB	-2.30	120.13	124.93
29	JN	203	PEB	CHA-C1B-NB	-2.30	120.13	124.93
29	LG	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	gF	201	PEB	CHB-C4B-C3B	-2.30	120.01	125.32
29	gI	201	PEB	CHB-C4B-C3B	-2.30	120.01	125.32
31	L9	1001	CYC	O2A-CGA-O1A	-2.30	117.57	123.30
30	wL	304	PUB	C1D-CHC-C4C	-2.30	108.37	113.37
29	AM	303	PEB	OD-C4D-ND	-2.30	122.53	125.93
29	HB	201	PEB	C1B-C2B-C3B	-2.30	103.87	106.51
29	HM	201	PEB	C1B-C2B-C3B	-2.30	103.87	106.51
31	G9	1001	CYC	CAA-CBA-CGA	-2.30	108.66	113.60
29	OF	201	PEB	C2B-C1B-NB	2.30	115.43	110.53
29	OI	201	PEB	C2B-C1B-NB	2.30	115.43	110.53
29	BA	203	PEB	CHA-C1B-NB	-2.30	120.13	124.93
29	BN	203	PEB	CHA-C1B-NB	-2.30	120.13	124.93
29	a7	202	PEB	CAA-C3A-C4A	-2.30	106.78	112.67
29	a9	202	PEB	CAA-C3A-C4A	-2.30	106.78	112.67
31	WP	1001	CYC	CAA-C2A-C1A	2.30	129.07	125.01
29	V7	202	PEB	CAA-C3A-C4A	-2.30	106.78	112.67
29	V9	202	PEB	CAA-C3A-C4A	-2.30	106.78	112.67
29	c7	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	c9	203	PEB	CAC-CBC-CGC	-2.30	107.32	113.76
29	YF	201	PEB	CHB-C4B-C3B	-2.30	120.02	125.32
29	YI	201	PEB	CHB-C4B-C3B	-2.30	120.02	125.32
29	VF	203	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	VI	203	PEB	CHC-C1D-ND	-2.30	111.28	113.95
29	ZF	201	PEB	C2B-C1B-NB	2.29	115.43	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZI	201	PEB	C2B-C1B-NB	2.29	115.43	110.53
29	Y7	202	PEB	CAA-C3A-C4A	-2.29	106.78	112.67
29	Y9	202	PEB	CAA-C3A-C4A	-2.29	106.78	112.67
29	T1	202	PEB	OD-C4D-C3D	-2.29	124.26	129.46
29	TK	202	PEB	OD-C4D-C3D	-2.29	124.26	129.46
29	RB	201	PEB	C1B-C2B-C3B	-2.29	103.87	106.51
29	RM	201	PEB	C1B-C2B-C3B	-2.29	103.87	106.51
29	a7	203	PEB	CAC-CBC-CGC	-2.29	107.33	113.76
29	a9	203	PEB	CAC-CBC-CGC	-2.29	107.33	113.76
29	R7	202	PEB	CAA-C3A-C4A	-2.29	106.78	112.67
29	R9	202	PEB	CAA-C3A-C4A	-2.29	106.78	112.67
29	HG	201	PEB	C2B-C1B-NB	2.29	115.43	110.53
29	HQ	201	PEB	C2B-C1B-NB	2.29	115.43	110.53
30	wJ	304	PUB	C1D-CHC-C4C	-2.29	108.38	113.37
29	V1	203	PEB	OD-C4D-C3D	-2.29	124.26	129.46
29	VK	203	PEB	OD-C4D-C3D	-2.29	124.26	129.46
29	I3	201	PEB	CBC-CAC-C2C	-2.29	108.70	112.62
29	IO	201	PEB	CBC-CAC-C2C	-2.29	108.70	112.62
29	BQ	203	PEB	CAC-CBC-CGC	-2.29	107.33	113.76
29	i7	203	PEB	CAC-CBC-CGC	-2.29	107.33	113.76
29	i9	203	PEB	CAC-CBC-CGC	-2.29	107.33	113.76
29	MR	202	PEB	CMB-C2B-C1B	2.29	128.60	125.06
31	H1	1001	CYC	CBC-CAC-C3C	-2.29	108.36	113.47
29	ID	202	PEB	C2B-C1B-NB	2.29	115.42	110.53
29	MA	404	PEB	CHA-C1B-C2B	2.29	130.79	124.90
29	LA	203	PEB	CHA-C1B-NB	-2.29	120.14	124.93
29	LN	203	PEB	CHA-C1B-NB	-2.29	120.14	124.93
29	FG	202	PEB	C4B-C3B-C2B	-2.29	104.25	106.78
29	FQ	202	PEB	C4B-C3B-C2B	-2.29	104.25	106.78
31	MF	1001	CYC	OB-C4B-NB	-2.29	119.75	125.08
31	MI	1001	CYC	OB-C4B-NB	-2.29	119.75	125.08
29	NK	1002	PEB	CHA-C1B-NB	-2.29	120.14	124.93
31	K9	1001	CYC	CAA-CBA-CGA	-2.29	108.67	113.60
29	eF	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	eI	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	e1	203	PEB	OD-C4D-C3D	-2.29	124.27	129.46
29	eK	203	PEB	OD-C4D-C3D	-2.29	124.27	129.46
29	I4	202	PEB	C2B-C1B-NB	2.29	115.42	110.53
31	VP	1001	CYC	CAC-C3C-C2C	-2.29	108.54	114.26
29	DB	201	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	DM	201	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	k7	203	PEB	CAC-CBC-CGC	-2.29	107.34	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	k9	203	PEB	CAC-CBC-CGC	-2.29	107.34	113.76
29	PF	201	PEB	CHB-C4B-C3B	-2.29	120.03	125.32
29	PI	201	PEB	CHB-C4B-C3B	-2.29	120.03	125.32
30	A1	305	PUB	C1D-CHC-C4C	-2.29	108.39	113.37
30	AK	305	PUB	C1D-CHC-C4C	-2.29	108.39	113.37
29	lF	201	PEB	C2B-C1B-NB	2.29	115.42	110.53
29	lI	201	PEB	C2B-C1B-NB	2.29	115.42	110.53
29	DO	202	PEB	CMB-C2B-C1B	2.29	128.59	125.06
29	zL	501	PEB	OD-C4D-ND	-2.29	122.54	125.93
29	GD	202	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	FG	201	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	FQ	201	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	FD	201	PEB	CMD-C2D-C3D	2.29	133.29	130.06
31	xP	1001	CYC	CAC-C3C-C2C	-2.29	108.54	114.26
29	UF	202	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	UI	202	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	iF	201	PEB	CHB-C4B-C3B	-2.29	120.03	125.32
29	iI	201	PEB	CHB-C4B-C3B	-2.29	120.03	125.32
29	SF	201	PEB	CMA-C2A-C1A	-2.29	107.47	112.40
29	SI	201	PEB	CMA-C2A-C1A	-2.29	107.47	112.40
29	KG	202	PEB	C2A-C1A-NA	2.29	110.25	108.27
29	KQ	202	PEB	C2A-C1A-NA	2.29	110.25	108.27
29	k1	201	PEB	CAB-CBB-CGB	-2.29	108.68	113.60
29	kK	201	PEB	CAB-CBB-CGB	-2.29	108.68	113.60
31	HK	1001	CYC	CBC-CAC-C3C	-2.29	108.38	113.47
29	P7	202	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	m7	202	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	P9	202	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	m9	202	PEB	C1B-C2B-C3B	-2.29	103.88	106.51
29	JG	203	PEB	CAC-CBC-CGC	-2.29	107.35	113.76
29	jF	201	PEB	CMA-C2A-C1A	-2.29	107.47	112.40
29	jI	201	PEB	CMA-C2A-C1A	-2.29	107.47	112.40
29	LG	201	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	MQ	402	PEB	C2B-C1B-NB	2.29	115.41	110.53
29	WJ	203	PEB	OD-C4D-C3D	-2.29	124.28	129.46
29	WL	203	PEB	OD-C4D-C3D	-2.29	124.28	129.46
29	kF	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	kI	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	D1	1002	PEB	CHA-C1B-NB	-2.29	120.15	124.93
31	F1	1001	CYC	CBC-CAC-C3C	-2.29	108.38	113.47
31	FK	1001	CYC	CBC-CAC-C3C	-2.29	108.38	113.47
29	RF	201	PEB	CHB-C4B-C3B	-2.29	120.04	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	RI	201	PEB	CHB-C4B-C3B	-2.29	120.04	125.32
29	hF	201	PEB	CMA-C2A-C1A	-2.29	107.48	112.40
29	hI	201	PEB	CMA-C2A-C1A	-2.29	107.48	112.40
31	H7	1001	CYC	O2A-CGA-O1A	-2.29	117.60	123.30
31	H9	1001	CYC	O2A-CGA-O1A	-2.29	117.60	123.30
29	RF	202	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	aF	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	RI	202	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	aI	203	PEB	CHC-C1D-ND	-2.29	111.29	113.95
29	SB	202	PEB	CBC-CAC-C2C	-2.29	108.72	112.62
29	SM	202	PEB	CBC-CAC-C2C	-2.29	108.72	112.62
29	P1	203	PEB	OD-C4D-C3D	-2.29	124.28	129.46
29	PK	203	PEB	OD-C4D-C3D	-2.29	124.28	129.46
29	O1	201	PEB	CHA-C4A-NA	2.29	127.92	125.20
29	OK	201	PEB	CHA-C4A-NA	2.29	127.92	125.20
29	MN	405	PEB	CHA-C4A-NA	2.29	127.92	125.20
29	g7	203	PEB	CAC-CBC-CGC	-2.29	107.35	113.76
29	g9	203	PEB	CAC-CBC-CGC	-2.29	107.35	113.76
29	V2	203	PEB	CHA-C1B-NB	-2.28	120.15	124.93
29	HA	203	PEB	CHA-C1B-NB	-2.28	120.15	124.93
29	HN	203	PEB	CHA-C1B-NB	-2.28	120.15	124.93
31	L7	1001	CYC	O2A-CGA-O1A	-2.28	117.61	123.30
29	cF	202	PEB	CMC-C3C-C2C	2.28	129.25	124.94
29	cI	202	PEB	CMC-C3C-C2C	2.28	129.25	124.94
30	xJ	304	PUB	C1D-CHC-C4C	-2.28	108.40	113.37
29	A7	305	PEB	CHA-C4A-NA	-2.28	122.49	125.20
29	A9	305	PEB	CHA-C4A-NA	-2.28	122.49	125.20
29	T7	203	PEB	CAC-CBC-CGC	-2.28	107.36	113.76
29	T9	203	PEB	CAC-CBC-CGC	-2.28	107.36	113.76
29	e1	201	PEB	CAB-CBB-CGB	-2.28	108.69	113.60
29	eK	201	PEB	CAB-CBB-CGB	-2.28	108.69	113.60
29	kF	203	PEB	CMC-C3C-C2C	2.28	129.25	124.94
29	kI	203	PEB	CMC-C3C-C2C	2.28	129.25	124.94
29	F4	201	PEB	CMD-C2D-C3D	2.28	133.28	130.06
29	Y1	201	PEB	CAB-CBB-CGB	-2.28	108.69	113.60
29	YK	201	PEB	CAB-CBB-CGB	-2.28	108.69	113.60
29	WF	201	PEB	CMA-C2A-C1A	-2.28	107.48	112.40
29	WI	201	PEB	CMA-C2A-C1A	-2.28	107.48	112.40
31	IP	1001	CYC	C2C-C1C-NC	2.28	110.24	108.27
29	V7	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	V9	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	mF	201	PEB	CHB-C4B-C3B	-2.28	120.05	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mI	201	PEB	CHB-C4B-C3B	-2.28	120.05	125.32
31	M9	1001	CYC	CAA-CBA-CGA	-2.28	108.69	113.60
29	R7	203	PEB	CAC-CBC-CGC	-2.28	107.36	113.76
29	R9	203	PEB	CAC-CBC-CGC	-2.28	107.36	113.76
31	FF	1001	CYC	CBD-CAD-C3D	2.28	116.52	112.62
31	FI	1001	CYC	CBD-CAD-C3D	2.28	116.52	112.62
30	AB	305	PUB	C2C-C1C-NC	2.28	113.37	110.05
29	iI	203	PEB	OD-C4D-C3D	-2.28	124.29	129.46
29	iK	203	PEB	OD-C4D-C3D	-2.28	124.29	129.46
29	V1	202	PEB	CAB-C3B-C4B	2.28	129.04	125.01
29	VK	202	PEB	CAB-C3B-C4B	2.28	129.04	125.01
29	M3	203	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	MO	203	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	D3	202	PEB	CMB-C2B-C1B	2.28	128.58	125.06
29	m1	202	PEB	OD-C4D-C3D	-2.28	124.29	129.46
29	mK	202	PEB	OD-C4D-C3D	-2.28	124.29	129.46
29	FG	203	PEB	CAC-CBC-CGC	-2.28	107.36	113.76
29	H3	201	PEB	CAB-C3B-C4B	2.28	129.04	125.01
29	HO	201	PEB	CAB-C3B-C4B	2.28	129.04	125.01
29	J4	201	PEB	CMD-C2D-C3D	2.28	133.28	130.06
31	F9	1001	CYC	O2A-CGA-O1A	-2.28	117.62	123.30
29	JG	202	PEB	C4B-C3B-C2B	-2.28	104.26	106.78
29	JQ	202	PEB	C4B-C3B-C2B	-2.28	104.26	106.78
30	AB	305	PUB	C1D-CHC-C4C	-2.28	108.41	113.37
29	V7	203	PEB	CAC-CBC-CGC	-2.28	107.37	113.76
29	V9	203	PEB	CAC-CBC-CGC	-2.28	107.37	113.76
30	yL	303	PUB	C2C-C1C-NC	2.28	113.36	110.05
29	DG	202	PEB	CHB-C4B-C3B	-2.28	120.06	125.32
29	DQ	202	PEB	CHB-C4B-C3B	-2.28	120.06	125.32
29	g7	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	g9	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	fF	201	PEB	CMA-C2A-C1A	-2.28	107.49	112.40
29	fI	201	PEB	CMA-C2A-C1A	-2.28	107.49	112.40
31	D7	1001	CYC	O2A-CGA-O1A	-2.28	117.62	123.30
31	D9	1001	CYC	O2A-CGA-O1A	-2.28	117.62	123.30
31	J1	1001	CYC	CBC-CAC-C3C	-2.28	108.39	113.47
31	JK	1001	CYC	CBC-CAC-C3C	-2.28	108.39	113.47
31	K7	1001	CYC	CAA-CBA-CGA	-2.28	108.70	113.60
29	FQ	203	PEB	CAC-CBC-CGC	-2.28	107.37	113.76
29	mF	203	PEB	CMC-C3C-C2C	2.28	129.24	124.94
29	mI	203	PEB	CMC-C3C-C2C	2.28	129.24	124.94
29	T7	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	T9	202	PEB	C1B-C2B-C3B	-2.28	103.89	106.51
29	M2	202	PEB	CMB-C2B-C1B	2.28	128.57	125.06
29	EJ	202	PEB	OD-C4D-C3D	-2.28	124.30	129.46
29	EL	202	PEB	OD-C4D-C3D	-2.28	124.30	129.46
30	MG	403	PUB	CHA-C1B-C2B	-2.28	126.45	130.34
29	A1	301	PEB	CHC-C1D-ND	-2.28	111.30	113.95
29	AK	301	PEB	CHC-C1D-ND	-2.28	111.30	113.95
29	OF	201	PEB	CMA-C2A-C1A	-2.28	107.50	112.40
29	OI	201	PEB	CMA-C2A-C1A	-2.28	107.50	112.40
29	DD	201	PEB	CMD-C2D-C3D	2.28	133.28	130.06
29	BG	203	PEB	CAC-CBC-CGC	-2.28	107.38	113.76
29	FG	202	PEB	CHB-C4B-C3B	-2.28	120.06	125.32
29	FQ	202	PEB	CHB-C4B-C3B	-2.28	120.06	125.32
29	mF	203	PEB	CHC-C1D-ND	-2.28	111.30	113.95
29	mI	203	PEB	CHC-C1D-ND	-2.28	111.30	113.95
29	c1	201	PEB	CAB-CBB-CGB	-2.28	108.70	113.60
29	cK	201	PEB	CAB-CBB-CGB	-2.28	108.70	113.60
31	qP	1001	CYC	C2C-C1C-NC	2.28	110.23	108.27
29	JG	201	PEB	CAB-CBB-CGB	-2.28	108.71	113.60
29	JQ	201	PEB	CAB-CBB-CGB	-2.28	108.71	113.60
29	a1	203	PEB	OD-C4D-C3D	-2.28	124.31	129.46
29	aK	203	PEB	OD-C4D-C3D	-2.28	124.31	129.46
29	m7	203	PEB	CAC-CBC-CGC	-2.28	107.38	113.76
29	m9	203	PEB	CAC-CBC-CGC	-2.28	107.38	113.76
31	E7	1001	CYC	CAA-CBA-CGA	-2.28	108.71	113.60
31	E9	1001	CYC	CAA-CBA-CGA	-2.28	108.71	113.60
29	UF	202	PEB	CMA-C2A-C1A	-2.28	107.50	112.40
29	UI	202	PEB	CMA-C2A-C1A	-2.28	107.50	112.40
29	gF	201	PEB	CAB-C3B-C2B	-2.27	123.64	127.88
29	gI	201	PEB	CAB-C3B-C2B	-2.27	123.64	127.88
29	P1	201	PEB	CAB-CBB-CGB	-2.27	108.71	113.60
29	PK	201	PEB	CAB-CBB-CGB	-2.27	108.71	113.60
31	C7	1001	CYC	CAA-CBA-CGA	-2.27	108.71	113.60
31	C9	1001	CYC	CAA-CBA-CGA	-2.27	108.71	113.60
29	C8	203	PEB	CAC-CBC-CGC	-2.27	107.38	113.76
29	F3	201	PEB	CAB-C3B-C4B	2.27	129.03	125.01
29	FO	201	PEB	CAB-C3B-C4B	2.27	129.03	125.01
29	zJ	501	PEB	OD-C4D-ND	-2.27	122.56	125.93
29	QF	201	PEB	CMA-C2A-C1A	-2.27	107.50	112.40
29	QI	201	PEB	CMA-C2A-C1A	-2.27	107.50	112.40
31	N1	1001	CYC	CBC-CAC-C3C	-2.27	108.41	113.47
29	G3	201	PEB	CBC-CAC-C2C	-2.27	108.74	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GO	201	PEB	CBC-CAC-C2C	-2.27	108.74	112.62
29	N3	203	PEB	CHB-C4B-C3B	-2.27	120.07	125.32
29	QB	204	PEB	CBC-CAC-C2C	-2.27	108.74	112.62
29	jB	202	PEB	CBC-CAC-C2C	-2.27	108.74	112.62
29	QM	204	PEB	CBC-CAC-C2C	-2.27	108.74	112.62
29	jM	202	PEB	CBC-CAC-C2C	-2.27	108.74	112.62
30	AM	305	PUB	C2C-C1C-NC	2.27	113.35	110.05
29	LD	202	PEB	CMA-C2A-C1A	-2.27	107.51	112.40
29	LG	201	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	MQ	402	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	I3	203	PEB	CHA-C1B-NB	-2.27	120.18	124.93
29	IO	203	PEB	CHA-C1B-NB	-2.27	120.18	124.93
29	i1	202	PEB	CAB-C3B-C4B	2.27	129.03	125.01
29	iK	202	PEB	CAB-C3B-C4B	2.27	129.03	125.01
31	WP	1001	CYC	C1B-NB-C4B	-2.27	107.78	110.67
29	KJ	202	PEB	OD-C4D-C3D	-2.27	124.31	129.46
29	eJ	202	PEB	OD-C4D-C3D	-2.27	124.31	129.46
29	KL	202	PEB	OD-C4D-C3D	-2.27	124.31	129.46
29	eL	202	PEB	OD-C4D-C3D	-2.27	124.31	129.46
29	N1	1002	PEB	CHA-C1B-NB	-2.27	120.18	124.93
29	A3	201	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	AO	201	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	oJ	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46
29	oL	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46
29	MG	404	PEB	CAC-CBC-CGC	-2.27	107.39	113.76
29	MQ	406	PEB	CAC-CBC-CGC	-2.27	107.39	113.76
29	J3	201	PEB	CAB-C3B-C4B	2.27	129.02	125.01
29	JO	201	PEB	CAB-C3B-C4B	2.27	129.02	125.01
31	L1	1001	CYC	CBC-CAC-C3C	-2.27	108.41	113.47
31	LK	1001	CYC	CBC-CAC-C3C	-2.27	108.41	113.47
29	HC	202	PEB	OD-C4D-ND	-2.27	122.57	125.93
29	HE	202	PEB	OD-C4D-ND	-2.27	122.57	125.93
29	c7	202	PEB	C1B-C2B-C3B	-2.27	103.90	106.51
29	c9	202	PEB	C1B-C2B-C3B	-2.27	103.90	106.51
29	fB	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	fM	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
31	NK	1001	CYC	CBC-CAC-C3C	-2.27	108.41	113.47
29	L4	202	PEB	CMA-C2A-C1A	-2.27	107.51	112.40
29	l1	201	PEB	CBB-CAB-C3B	-2.27	106.32	112.63
29	lK	201	PEB	CBB-CAB-C3B	-2.27	106.32	112.63
30	MA	402	PUB	CMA-C2A-C3A	2.27	134.33	129.67
29	aJ	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	aL	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46
31	J9	1001	CYC	O2A-CGA-O1A	-2.27	117.64	123.30
29	Y7	202	PEB	C1B-C2B-C3B	-2.27	103.90	106.51
29	Y9	202	PEB	C1B-C2B-C3B	-2.27	103.90	106.51
29	HG	201	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	HQ	201	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	C5	203	PEB	CAC-CBC-CGC	-2.27	107.40	113.76
29	M3	203	PEB	CHB-C4B-C3B	-2.27	120.08	125.32
29	MO	203	PEB	CHB-C4B-C3B	-2.27	120.08	125.32
29	NF	1002	PEB	OD-C4D-ND	-2.27	122.57	125.93
29	NI	1002	PEB	OD-C4D-ND	-2.27	122.57	125.93
29	BG	201	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	BQ	201	PEB	CAB-CBB-CGB	-2.27	108.72	113.60
29	W1	201	PEB	CBB-CAB-C3B	-2.27	106.33	112.63
29	WK	201	PEB	CBB-CAB-C3B	-2.27	106.33	112.63
29	JD	201	PEB	CMD-C2D-C3D	2.27	133.26	130.06
31	DK	1001	CYC	CBC-CAC-C3C	-2.27	108.42	113.47
29	IB	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	IM	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	I5	203	PEB	CAC-CBC-CGC	-2.27	107.40	113.76
29	I8	203	PEB	CAC-CBC-CGC	-2.27	107.40	113.76
29	OJ	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46
29	OL	202	PEB	OD-C4D-C3D	-2.27	124.32	129.46
29	R7	202	PEB	C1B-C2B-C3B	-2.27	103.91	106.51
29	R9	202	PEB	C1B-C2B-C3B	-2.27	103.91	106.51
31	GF	1001	CYC	OB-C4B-NB	-2.27	119.81	125.08
31	GI	1001	CYC	OB-C4B-NB	-2.27	119.81	125.08
31	kP	1001	CYC	C2C-C1C-NC	2.27	110.23	108.27
29	YB	203	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	YM	203	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	J3	202	PEB	CHA-C1B-NB	-2.27	120.19	124.93
29	JO	202	PEB	CHA-C1B-NB	-2.27	120.19	124.93
29	K8	203	PEB	CAC-CBC-CGC	-2.27	107.41	113.76
29	wJ	301	PEB	OD-C4D-ND	-2.27	122.57	125.93
29	AJ	202	PEB	OD-C4D-C3D	-2.27	124.33	129.46
29	AL	202	PEB	OD-C4D-C3D	-2.27	124.33	129.46
29	LG	202	PEB	C4B-C3B-C2B	-2.27	104.28	106.78
29	LQ	201	PEB	C4B-C3B-C2B	-2.27	104.28	106.78
31	F7	1001	CYC	O2A-CGA-O1A	-2.27	117.65	123.30
29	aB	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	aM	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	WB	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	WM	202	PEB	CBC-CAC-C2C	-2.27	108.75	112.62
29	W2	202	PEB	CMB-C2B-C1B	2.26	128.55	125.06
29	MJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	ML	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	J4	202	PEB	CMA-C2A-C1A	-2.26	107.52	112.40
29	a1	202	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	B3	201	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	aK	202	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	BO	201	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	iF	203	PEB	CHC-C1D-ND	-2.26	111.32	113.95
29	iI	203	PEB	CHC-C1D-ND	-2.26	111.32	113.95
29	IJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	IL	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	GJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	GL	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	g1	201	PEB	CAB-CBB-CGB	-2.26	108.73	113.60
29	gK	201	PEB	CAB-CBB-CGB	-2.26	108.73	113.60
29	W7	201	PEB	C4B-C3B-C2B	-2.26	104.28	106.78
29	W9	201	PEB	C4B-C3B-C2B	-2.26	104.28	106.78
31	N7	1001	CYC	O2A-CGA-O1A	-2.26	117.66	123.30
31	N9	1001	CYC	O2A-CGA-O1A	-2.26	117.66	123.30
29	BG	202	PEB	CHB-C4B-C3B	-2.26	120.09	125.32
29	JG	202	PEB	CHB-C4B-C3B	-2.26	120.09	125.32
29	BQ	202	PEB	CHB-C4B-C3B	-2.26	120.09	125.32
29	JQ	202	PEB	CHB-C4B-C3B	-2.26	120.09	125.32
29	UJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	UL	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	VF	203	PEB	CMC-C3C-C2C	2.26	129.21	124.94
29	VI	203	PEB	CMC-C3C-C2C	2.26	129.21	124.94
29	SJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	SL	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	K3	201	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
29	KO	201	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
31	JF	1001	CYC	CBD-CAD-C3D	2.26	116.48	112.62
31	JI	1001	CYC	CBD-CAD-C3D	2.26	116.48	112.62
29	gJ	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	gL	202	PEB	OD-C4D-C3D	-2.26	124.33	129.46
29	KB	202	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
29	KM	202	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
29	sJ	203	PEB	C2B-C1B-NB	2.26	115.36	110.53
29	sL	203	PEB	C2B-C1B-NB	2.26	115.36	110.53
29	j1	201	PEB	CBB-CAB-C3B	-2.26	106.34	112.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	jK	201	PEB	CBB-CAB-C3B	-2.26	106.34	112.63
29	qJ	202	PEB	OD-C4D-C3D	-2.26	124.34	129.46
29	qL	202	PEB	OD-C4D-C3D	-2.26	124.34	129.46
29	FD	202	PEB	CMA-C2A-C1A	-2.26	107.53	112.40
29	e7	202	PEB	C1B-C2B-C3B	-2.26	103.91	106.51
29	e9	202	PEB	C1B-C2B-C3B	-2.26	103.91	106.51
29	FC	202	PEB	OD-C4D-ND	-2.26	122.58	125.93
29	FE	202	PEB	OD-C4D-ND	-2.26	122.58	125.93
31	FP	1001	CYC	C2C-C1C-NC	2.26	110.22	108.27
29	UB	202	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
29	MQ	401	PEB	CBC-CAC-C2C	-2.26	108.76	112.62
29	R1	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60
29	RK	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60
29	U7	201	PEB	C4B-C3B-C2B	-2.26	104.28	106.78
29	U9	201	PEB	C4B-C3B-C2B	-2.26	104.28	106.78
30	MN	402	PUB	CMA-C2A-C3A	2.26	134.32	129.67
29	U1	201	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	UK	201	PEB	CAB-C3B-C4B	2.26	129.01	125.01
29	A1	302	PEB	C1C-CHB-C4B	-2.26	126.11	128.81
29	AK	302	PEB	C1C-CHB-C4B	-2.26	126.11	128.81
29	NO	203	PEB	CHB-C4B-C3B	-2.26	120.10	125.32
29	a7	202	PEB	C1B-C2B-C3B	-2.26	103.91	106.51
29	a9	202	PEB	C1B-C2B-C3B	-2.26	103.91	106.51
29	PF	201	PEB	CAB-C3B-C2B	-2.26	123.67	127.88
29	PI	201	PEB	CAB-C3B-C2B	-2.26	123.67	127.88
29	Q1	201	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
29	QK	201	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
31	nP	1001	CYC	C2C-C1C-NC	2.26	110.22	108.27
31	J7	1001	CYC	O2A-CGA-O1A	-2.26	117.67	123.30
29	Z1	202	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
29	ZK	202	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
29	TF	202	PEB	CMC-C3C-C2C	2.26	129.20	124.94
29	TI	202	PEB	CMC-C3C-C2C	2.26	129.20	124.94
31	I7	1001	CYC	CAA-CBA-CGA	-2.26	108.74	113.60
31	I9	1001	CYC	CAA-CBA-CGA	-2.26	108.74	113.60
29	eF	203	PEB	CMC-C3C-C2C	2.26	129.20	124.94
29	eI	203	PEB	CMC-C3C-C2C	2.26	129.20	124.94
29	CG	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	CQ	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	i1	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60
29	m1	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60
29	iK	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	mK	201	PEB	CAB-CBB-CGB	-2.26	108.74	113.60
29	B3	202	PEB	CHA-C1B-NB	-2.26	120.21	124.93
29	BO	202	PEB	CHA-C1B-NB	-2.26	120.21	124.93
29	KG	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	KQ	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	d1	201	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
29	dK	201	PEB	CBB-CAB-C3B	-2.26	106.35	112.63
29	HD	201	PEB	CMD-C2D-C3D	2.26	133.25	130.06
30	AM	305	PUB	C1D-CHC-C4C	-2.26	108.45	113.37
29	MG	404	PEB	C2A-C1A-NA	2.26	110.22	108.27
29	dB	202	PEB	CBC-CAC-C2C	-2.26	108.77	112.62
29	dM	202	PEB	CBC-CAC-C2C	-2.26	108.77	112.62
29	NR	203	PEB	CMB-C2B-C1B	2.26	128.54	125.06
29	gF	203	PEB	CHC-C1D-ND	-2.26	111.33	113.95
29	gI	203	PEB	CHC-C1D-ND	-2.26	111.33	113.95
29	FG	201	PEB	CAB-CBB-CGB	-2.26	108.75	113.60
29	FQ	201	PEB	CAB-CBB-CGB	-2.26	108.75	113.60
29	uJ	203	PEB	OD-C4D-C3D	-2.26	124.35	129.46
29	uL	203	PEB	OD-C4D-C3D	-2.26	124.35	129.46
29	YF	203	PEB	CMC-C3C-C2C	2.26	129.20	124.94
29	YI	203	PEB	CMC-C3C-C2C	2.26	129.20	124.94
31	LF	1001	CYC	CBD-CAD-C3D	2.26	116.47	112.62
31	LI	1001	CYC	CBD-CAD-C3D	2.26	116.47	112.62
29	YJ	202	PEB	OD-C4D-C3D	-2.26	124.35	129.46
29	YL	202	PEB	OD-C4D-C3D	-2.26	124.35	129.46
29	G4	203	PEB	CAC-CBC-CGC	-2.26	107.43	113.76
29	C4	203	PEB	CAC-CBC-CGC	-2.26	107.43	113.76
31	D1	1001	CYC	CBC-CAC-C3C	-2.26	108.44	113.47
29	GG	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	GQ	202	PEB	C2A-C3A-C4A	-2.26	97.96	101.34
29	JD	202	PEB	CMA-C2A-C1A	-2.26	107.54	112.40
29	K5	203	PEB	CAC-CBC-CGC	-2.26	107.44	113.76
29	O1	201	PEB	CBB-CAB-C3B	-2.25	106.36	112.63
29	OK	201	PEB	CBB-CAB-C3B	-2.25	106.36	112.63
29	OB	202	PEB	CBC-CAC-C2C	-2.25	108.77	112.62
29	OM	202	PEB	CBC-CAC-C2C	-2.25	108.77	112.62
29	Z1	202	PEB	CHA-C4A-NA	2.25	127.89	125.20
29	ZK	202	PEB	CHA-C4A-NA	2.25	127.89	125.20
29	JF	1002	PEB	OD-C4D-ND	-2.25	122.59	125.93
29	JI	1002	PEB	OD-C4D-ND	-2.25	122.59	125.93
29	wJ	303	PEB	C2B-C1B-NB	2.25	115.34	110.53
31	yP	1001	CYC	C2B-C1B-NB	2.25	110.29	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	KF	1001	CYC	CHB-C1B-NB	-2.25	121.22	126.06
29	BG	202	PEB	C4B-C3B-C2B	-2.25	104.29	106.78
29	BQ	202	PEB	C4B-C3B-C2B	-2.25	104.29	106.78
29	cJ	202	PEB	OD-C4D-C3D	-2.25	124.35	129.46
29	cL	202	PEB	OD-C4D-C3D	-2.25	124.35	129.46
29	AG	201	PEB	C2B-C1B-NB	2.25	115.34	110.53
29	bJ	202	PEB	C2B-C1B-NB	2.25	115.34	110.53
29	bL	202	PEB	C2B-C1B-NB	2.25	115.34	110.53
29	AQ	201	PEB	C2B-C1B-NB	2.25	115.34	110.53
29	B4	201	PEB	CMD-C2D-C3D	2.25	133.24	130.06
29	i7	202	PEB	C1B-C2B-C3B	-2.25	103.92	106.51
29	i9	202	PEB	C1B-C2B-C3B	-2.25	103.92	106.51
31	XP	1001	CYC	C2C-C1C-NC	2.25	110.22	108.27
29	B5	201	PEB	CHC-C1D-ND	-2.25	111.33	113.95
29	E3	201	PEB	CBC-CAC-C2C	-2.25	108.77	112.62
29	EO	201	PEB	CBC-CAC-C2C	-2.25	108.77	112.62
31	DF	1001	CYC	CBD-CAD-C3D	2.25	116.47	112.62
31	DI	1001	CYC	CBD-CAD-C3D	2.25	116.47	112.62
29	D4	202	PEB	CMA-C2A-C1A	-2.25	107.55	112.40
29	RF	202	PEB	CMC-C3C-C2C	2.25	129.19	124.94
29	RI	202	PEB	CMC-C3C-C2C	2.25	129.19	124.94
29	TI	201	PEB	CAB-C3B-C2B	-2.25	123.68	127.88
30	MQ	405	PUB	CBC-CAC-C2C	2.25	118.89	112.63
29	W1	201	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	WK	201	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	EB	202	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
29	EM	202	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
30	A7	302	PUB	CAC-C2C-C1C	2.25	128.99	125.01
30	A9	302	PUB	CAC-C2C-C1C	2.25	128.99	125.01
31	UP	1001	CYC	C2C-C1C-NC	2.25	110.22	108.27
29	kJ	202	PEB	OD-C4D-C3D	-2.25	124.36	129.46
29	kL	202	PEB	OD-C4D-C3D	-2.25	124.36	129.46
29	aF	201	PEB	CAB-C3B-C2B	-2.25	123.68	127.88
29	aI	201	PEB	CAB-C3B-C2B	-2.25	123.68	127.88
29	e1	202	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	eK	202	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	CJ	202	PEB	OD-C4D-C3D	-2.25	124.36	129.46
29	CL	202	PEB	OD-C4D-C3D	-2.25	124.36	129.46
29	c1	202	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	cK	202	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	HG	202	PEB	C4B-C3B-C2B	-2.25	104.29	106.78
29	HQ	202	PEB	C4B-C3B-C2B	-2.25	104.29	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ZJ	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	ZL	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	H4	201	PEB	CMD-C2D-C3D	2.25	133.24	130.06
31	yP	1001	CYC	CAA-C2A-C1A	2.25	128.99	125.01
29	b1	201	PEB	CBB-CAB-C3B	-2.25	106.37	112.63
29	bK	201	PEB	CBB-CAB-C3B	-2.25	106.37	112.63
31	IF	1001	CYC	CHB-C1B-NB	-2.25	121.22	126.06
31	II	1001	CYC	CHB-C1B-NB	-2.25	121.22	126.06
29	H3	202	PEB	CHA-C1B-NB	-2.25	120.22	124.93
29	HO	202	PEB	CHA-C1B-NB	-2.25	120.22	124.93
29	KC	201	PEB	OD-C4D-ND	-2.25	122.60	125.93
29	KE	201	PEB	OD-C4D-ND	-2.25	122.60	125.93
29	h7	201	PEB	C4B-C3B-C2B	-2.25	104.29	106.78
29	h9	201	PEB	C4B-C3B-C2B	-2.25	104.29	106.78
29	lJ	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	lL	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	gF	203	PEB	CMC-C3C-C2C	2.25	129.19	124.94
29	gI	203	PEB	CMC-C3C-C2C	2.25	129.19	124.94
29	k7	202	PEB	C1B-C2B-C3B	-2.25	103.92	106.51
29	k9	202	PEB	C1B-C2B-C3B	-2.25	103.92	106.51
31	CF	1001	CYC	CHB-C1B-NB	-2.25	121.23	126.06
31	CI	1001	CYC	CHB-C1B-NB	-2.25	121.23	126.06
29	HJ	201	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	pJ	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	HL	201	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	pL	202	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	DD	202	PEB	CMA-C2A-C1A	-2.25	107.55	112.40
29	U1	202	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	UK	202	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	VF	201	PEB	CAB-C3B-C2B	-2.25	123.69	127.88
29	VI	201	PEB	CAB-C3B-C2B	-2.25	123.69	127.88
29	D3	201	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	DO	201	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	AF	301	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
29	AI	301	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
29	MD	203	PEB	CAC-CBC-CGC	-2.25	107.45	113.76
29	L3	201	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	LO	201	PEB	CAB-C3B-C4B	2.25	128.99	125.01
29	K4	203	PEB	CAC-CBC-CGC	-2.25	107.45	113.76
29	iF	203	PEB	CMC-C3C-C2C	2.25	129.18	124.94
29	iI	203	PEB	CMC-C3C-C2C	2.25	129.18	124.94
29	LG	202	PEB	CHB-C4B-C3B	-2.25	120.12	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LQ	201	PEB	CHB-C4B-C3B	-2.25	120.12	125.32
29	U1	202	PEB	CBB-CAB-C3B	-2.25	106.38	112.63
29	UK	202	PEB	CBB-CAB-C3B	-2.25	106.38	112.63
29	SR	201	PEB	OD-C4D-ND	-2.25	122.60	125.93
29	GG	201	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	GQ	201	PEB	C2B-C1B-NB	2.25	115.33	110.53
29	MB	202	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
29	MM	202	PEB	CBC-CAC-C2C	-2.25	108.78	112.62
29	f1	201	PEB	CBB-CAB-C3B	-2.25	106.38	112.63
29	fK	201	PEB	CBB-CAB-C3B	-2.25	106.38	112.63
31	WP	1001	CYC	C2B-C1B-NB	2.25	110.28	106.99
29	T1	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	TK	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	S1	201	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	SK	201	PEB	CHA-C4A-NA	2.25	127.88	125.20
29	H4	202	PEB	CMA-C2A-C1A	-2.25	107.56	112.40
31	OP	1001	CYC	C2C-C1C-NC	2.25	110.21	108.27
29	IG	202	PEB	C2A-C3A-C4A	-2.25	97.97	101.34
29	IQ	202	PEB	C2A-C3A-C4A	-2.25	97.97	101.34
29	wL	301	PEB	OD-C4D-ND	-2.25	122.60	125.93
29	A5	203	PEB	CAC-CBC-CGC	-2.25	107.46	113.76
29	A8	203	PEB	CAC-CBC-CGC	-2.25	107.46	113.76
29	V1	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	VK	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	iJ	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	iL	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	H5	201	PEB	CHC-C1D-ND	-2.25	111.34	113.95
29	GD	203	PEB	CAC-CBC-CGC	-2.25	107.46	113.76
29	Z1	201	PEB	CAB-C3B-C4B	2.25	128.98	125.01
29	ZK	201	PEB	CAB-C3B-C4B	2.25	128.98	125.01
29	mJ	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	mL	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	CB	202	PEB	CBC-CAC-C2C	-2.25	108.79	112.62
29	CM	202	PEB	CBC-CAC-C2C	-2.25	108.79	112.62
29	Z7	201	PEB	C4B-C3B-C2B	-2.25	104.30	106.78
29	Z9	201	PEB	C4B-C3B-C2B	-2.25	104.30	106.78
29	QJ	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	QL	202	PEB	OD-C4D-C3D	-2.25	124.37	129.46
29	a1	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	aK	201	PEB	CAB-CBB-CGB	-2.25	108.77	113.60
29	MQ	406	PEB	C2A-C1A-NA	2.25	110.21	108.27
31	NF	1001	CYC	CBD-CAD-C3D	2.25	116.45	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	NI	1001	CYC	CBD-CAD-C3D	2.25	116.45	112.62
29	hB	202	PEB	CBC-CAC-C2C	-2.24	108.79	112.62
29	hM	202	PEB	CBC-CAC-C2C	-2.24	108.79	112.62
29	h1	201	PEB	CBB-CAB-C3B	-2.24	106.39	112.63
29	hK	201	PEB	CBB-CAB-C3B	-2.24	106.39	112.63
31	EF	1001	CYC	CHB-C1B-NB	-2.24	121.24	126.06
31	EI	1001	CYC	CHB-C1B-NB	-2.24	121.24	126.06
29	S1	201	PEB	CBB-CAB-C3B	-2.24	106.39	112.63
29	SK	201	PEB	CBB-CAB-C3B	-2.24	106.39	112.63
29	B4	202	PEB	CMA-C2A-C1A	-2.24	107.57	112.40
29	N2	203	PEB	CMB-C2B-C1B	2.24	128.52	125.06
29	IJ	203	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	PJ	202	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	IL	203	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	PL	202	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	wL	303	PEB	C2B-C1B-NB	2.24	115.32	110.53
31	DP	1001	CYC	C2C-C1C-NC	2.24	110.21	108.27
29	G8	201	PEB	CHC-C1D-ND	-2.24	111.34	113.95
29	GB	202	PEB	CBC-CAC-C2C	-2.24	108.79	112.62
29	GM	202	PEB	CBC-CAC-C2C	-2.24	108.79	112.62
29	jJ	202	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	jL	202	PEB	C2B-C1B-NB	2.24	115.32	110.53
29	HD	202	PEB	CMA-C2A-C1A	-2.24	107.57	112.40
29	sJ	202	PEB	OD-C4D-C3D	-2.24	124.38	129.46
29	sL	202	PEB	OD-C4D-C3D	-2.24	124.38	129.46
31	KI	1001	CYC	CHB-C1B-NB	-2.24	121.24	126.06
29	RF	201	PEB	CAB-C3B-C2B	-2.24	123.70	127.88
29	RI	201	PEB	CAB-C3B-C2B	-2.24	123.70	127.88
29	AG	202	PEB	C2A-C3A-C4A	-2.24	97.98	101.34
29	AQ	202	PEB	C2A-C3A-C4A	-2.24	97.98	101.34
29	hJ	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	hL	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	aF	203	PEB	CMC-C3C-C2C	2.24	129.17	124.94
29	aI	203	PEB	CMC-C3C-C2C	2.24	129.17	124.94
29	PF	203	PEB	CMC-C3C-C2C	2.24	129.17	124.94
29	PI	203	PEB	CMC-C3C-C2C	2.24	129.17	124.94
29	WJ	201	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	WL	201	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	CG	201	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	CQ	201	PEB	C2B-C1B-NB	2.24	115.31	110.53
30	MG	403	PUB	CBC-CAC-C2C	2.24	118.85	112.63
29	F3	202	PEB	CHA-C1B-NB	-2.24	120.25	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FO	202	PEB	CHA-C1B-NB	-2.24	120.25	124.93
29	NR	201	PEB	CAC-CBC-CGC	-2.24	107.48	113.76
29	l1	201	PEB	CHA-C4A-NA	2.24	127.87	125.20
29	lK	201	PEB	CHA-C4A-NA	2.24	127.87	125.20
31	H1	1001	CYC	C1B-CHB-C4A	-2.24	122.61	128.08
29	EG	202	PEB	C2A-C3A-C4A	-2.24	97.98	101.34
29	EQ	202	PEB	C2A-C3A-C4A	-2.24	97.98	101.34
31	BP	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
29	BC	202	PEB	OD-C4D-ND	-2.24	122.61	125.93
29	BE	202	PEB	OD-C4D-ND	-2.24	122.61	125.93
29	xL	301	PEB	OD-C4D-ND	-2.24	122.61	125.93
29	HG	202	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	HQ	202	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	U2	202	PEB	CMB-C2B-C1B	2.24	128.51	125.06
29	iF	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
29	iI	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
30	A7	302	PUB	CBA-CAA-C3A	-2.24	109.58	112.98
30	A9	302	PUB	CBA-CAA-C3A	-2.24	109.58	112.98
29	C3	201	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	CO	201	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	HA	201	PEB	C1C-CHB-C4B	-2.24	126.13	128.81
29	HN	201	PEB	C1C-CHB-C4B	-2.24	126.13	128.81
29	cF	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
29	cI	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
29	rJ	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	rL	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
31	MP	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
31	HK	1001	CYC	C1B-CHB-C4A	-2.24	122.61	128.08
29	O2	202	PEB	CMB-C2B-C1B	2.24	128.51	125.06
29	nJ	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	nL	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
31	yP	1001	CYC	C1B-NB-C4B	-2.24	107.82	110.67
29	A3	201	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	AO	201	PEB	CHB-C4B-C3B	-2.24	120.15	125.32
29	d7	201	PEB	C4B-C3B-C2B	-2.24	104.31	106.78
29	d9	201	PEB	C4B-C3B-C2B	-2.24	104.31	106.78
29	eF	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
29	eI	201	PEB	CAB-C3B-C2B	-2.24	123.71	127.88
29	NJ	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
29	NL	202	PEB	C2B-C1B-NB	2.24	115.31	110.53
31	H7	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
31	H9	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	ED	202	PEB	CAC-CBC-CGC	-2.24	107.49	113.76
29	B4	201	PEB	CAA-C3A-C4A	-2.24	106.93	112.67
30	A1	304	PUB	CMD-C2D-C3D	2.24	131.12	127.77
30	AK	304	PUB	CMD-C2D-C3D	2.24	131.12	127.77
29	PR	202	PEB	CMB-C2B-C1B	2.24	128.51	125.06
29	A9	304	PEB	CAA-C3A-C4A	2.24	118.42	112.67
29	e2	402	PEB	CAC-CBC-CGC	-2.24	107.49	113.76
29	KD	203	PEB	CAC-CBC-CGC	-2.24	107.49	113.76
29	XR	201	PEB	CAC-CBC-CGC	-2.24	107.49	113.76
31	N7	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
31	N9	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
31	hP	1001	CYC	C2C-C1C-NC	2.24	110.20	108.27
29	j1	201	PEB	CHA-C4A-NA	2.24	127.86	125.20
29	jK	201	PEB	CHA-C4A-NA	2.24	127.86	125.20
29	DA	201	PEB	C1C-CHB-C4B	-2.24	126.14	128.81
29	DN	201	PEB	C1C-CHB-C4B	-2.24	126.14	128.81
29	I3	201	PEB	CHB-C4B-C3B	-2.24	120.16	125.32
29	IO	201	PEB	CHB-C4B-C3B	-2.24	120.16	125.32
29	DF	1002	PEB	OD-C4D-ND	-2.24	122.62	125.93
29	DI	1002	PEB	OD-C4D-ND	-2.24	122.62	125.93
29	HA	201	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	EG	201	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	fJ	202	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	fL	202	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	HN	201	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	EQ	201	PEB	C2B-C1B-NB	2.24	115.30	110.53
29	ID	203	PEB	CAC-CBC-CGC	-2.23	107.49	113.76
29	DG	201	PEB	CAB-CBB-CGB	-2.23	108.79	113.60
29	DQ	201	PEB	CAB-CBB-CGB	-2.23	108.79	113.60
29	WR	202	PEB	CMB-C2B-C1B	2.23	128.50	125.06
31	MF	1001	CYC	CHB-C1B-NB	-2.23	121.26	126.06
31	MI	1001	CYC	CHB-C1B-NB	-2.23	121.26	126.06
29	k1	202	PEB	CAB-C3B-C4B	2.23	128.96	125.01
29	kK	202	PEB	CAB-C3B-C4B	2.23	128.96	125.01
31	J7	1001	CYC	C2C-C1C-NC	2.23	110.20	108.27
31	L7	1001	CYC	C2C-C1C-NC	2.23	110.20	108.27
31	jP	1001	CYC	C2C-C1C-NC	2.23	110.20	108.27
29	KG	201	PEB	C2B-C1B-NB	2.23	115.30	110.53
29	KQ	201	PEB	C2B-C1B-NB	2.23	115.30	110.53
29	b1	201	PEB	CHA-C4A-NA	2.23	127.86	125.20
29	bK	201	PEB	CHA-C4A-NA	2.23	127.86	125.20
29	g1	202	PEB	CAB-C3B-C4B	2.23	128.96	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gK	202	PEB	CAB-C3B-C4B	2.23	128.96	125.01
29	LA	201	PEB	C1C-CHB-C4B	-2.23	126.14	128.81
29	LN	201	PEB	C1C-CHB-C4B	-2.23	126.14	128.81
29	MQ	407	PEB	C2B-C1B-NB	2.23	115.30	110.53
29	N2	201	PEB	CAC-CBC-CGC	-2.23	107.50	113.76
29	Q7	201	PEB	C4B-C3B-C2B	-2.23	104.31	106.78
29	Q9	201	PEB	C4B-C3B-C2B	-2.23	104.31	106.78
29	kF	201	PEB	CAB-C3B-C2B	-2.23	123.72	127.88
29	kI	201	PEB	CAB-C3B-C2B	-2.23	123.72	127.88
29	HF	1002	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	LF	1002	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	HI	1002	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	LI	1002	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	j1	203	PEB	CAB-C3B-C4B	2.23	128.96	125.01
29	jK	203	PEB	CAB-C3B-C4B	2.23	128.96	125.01
29	UR	202	PEB	CMB-C2B-C1B	2.23	128.50	125.06
29	CD	203	PEB	CAC-CBC-CGC	-2.23	107.50	113.76
29	S2	201	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	xJ	301	PEB	OD-C4D-ND	-2.23	122.62	125.93
29	S7	201	PEB	C4B-C3B-C2B	-2.23	104.31	106.78
29	S9	201	PEB	C4B-C3B-C2B	-2.23	104.31	106.78
29	G5	201	PEB	CAB-C3B-C4B	2.23	128.96	125.01
29	GA	202	PEB	OD-C4D-C3D	-2.23	124.41	129.46
29	GN	202	PEB	OD-C4D-C3D	-2.23	124.41	129.46
29	I3	202	PEB	C1C-CHB-C4B	2.23	131.47	128.81
29	BA	201	PEB	C1C-CHB-C4B	-2.23	126.14	128.81
29	BN	201	PEB	C1C-CHB-C4B	-2.23	126.14	128.81
29	IO	202	PEB	C1C-CHB-C4B	2.23	131.47	128.81
29	G3	202	PEB	C2B-C1B-NB	2.23	115.29	110.53
29	GO	202	PEB	C2B-C1B-NB	2.23	115.29	110.53
29	R2	201	PEB	CAC-CBC-CGC	-2.23	107.50	113.76
29	F4	202	PEB	CMA-C2A-C1A	-2.23	107.59	112.40
29	d1	201	PEB	CHA-C4A-NA	2.23	127.86	125.20
29	dK	201	PEB	CHA-C4A-NA	2.23	127.86	125.20
31	D1	1001	CYC	C1B-CHB-C4A	-2.23	122.63	128.08
29	TR	201	PEB	CAC-CBC-CGC	-2.23	107.51	113.76
29	G5	201	PEB	CHC-C1D-ND	-2.23	111.36	113.95
29	BD	202	PEB	CMA-C2A-C1A	-2.23	107.60	112.40
29	FJ	202	PEB	C2B-C1B-NB	2.23	115.29	110.53
29	FL	202	PEB	C2B-C1B-NB	2.23	115.29	110.53
29	I5	203	PEB	CAB-CBB-CGB	-2.23	108.81	113.60
29	I8	203	PEB	CAB-CBB-CGB	-2.23	108.81	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	A8	203	PEB	CAB-CBB-CGB	-2.23	108.81	113.60
29	P1	202	PEB	CAB-C3B-C4B	2.23	128.95	125.01
29	PK	202	PEB	CAB-C3B-C4B	2.23	128.95	125.01
29	AA	202	PEB	OD-C4D-C3D	-2.23	124.41	129.46
29	AN	202	PEB	OD-C4D-C3D	-2.23	124.41	129.46
29	DA	201	PEB	C2B-C1B-NB	2.23	115.28	110.53
29	xL	303	PEB	C2B-C1B-NB	2.23	115.28	110.53
29	DN	201	PEB	C2B-C1B-NB	2.23	115.28	110.53
31	uP	1001	CYC	C2C-C1C-NC	2.23	110.19	108.27
29	K3	202	PEB	C1C-CHB-C4B	2.23	131.47	128.81
29	KO	202	PEB	C1C-CHB-C4B	2.23	131.47	128.81
29	S2	202	PEB	CMB-C2B-C1B	2.23	128.49	125.06
29	j7	201	PEB	C4B-C3B-C2B	-2.23	104.32	106.78
29	j9	201	PEB	C4B-C3B-C2B	-2.23	104.32	106.78
31	HP	1001	CYC	C2C-C1C-NC	2.23	110.19	108.27
29	N1	1002	PEB	C1B-C2B-C3B	-2.23	103.95	106.51
31	VP	1001	CYC	CHB-C1B-C2B	-2.23	122.54	126.95
29	VR	203	PEB	CMB-C2B-C1B	2.23	128.49	125.06
29	FA	201	PEB	C2B-C1B-NB	2.23	115.28	110.53
29	FN	201	PEB	C2B-C1B-NB	2.23	115.28	110.53
29	Q2	202	PEB	CMB-C2B-C1B	2.23	128.49	125.06
29	R1	202	PEB	CAB-C3B-C4B	2.23	128.95	125.01
29	RK	202	PEB	CAB-C3B-C4B	2.23	128.95	125.01
29	l7	201	PEB	C4B-C3B-C2B	-2.23	104.32	106.78
29	l9	201	PEB	C4B-C3B-C2B	-2.23	104.32	106.78
29	P2	202	PEB	CMB-C2B-C1B	2.23	128.49	125.06
29	QR	202	PEB	CMB-C2B-C1B	2.23	128.49	125.06
29	LC	202	PEB	OD-C4D-ND	-2.23	122.63	125.93
29	LE	202	PEB	OD-C4D-ND	-2.23	122.63	125.93
29	LD	201	PEB	CAA-C3A-C4A	-2.22	106.96	112.67
29	AJ	203	PEB	C2B-C1B-NB	2.22	115.28	110.53
29	XJ	202	PEB	C2B-C1B-NB	2.22	115.28	110.53
29	AL	203	PEB	C2B-C1B-NB	2.22	115.28	110.53
29	XL	202	PEB	C2B-C1B-NB	2.22	115.28	110.53
29	KA	202	PEB	OD-C4D-C3D	-2.22	124.42	129.46
29	KN	202	PEB	OD-C4D-C3D	-2.22	124.42	129.46
31	NK	1001	CYC	C1B-CHB-C4A	-2.22	122.65	128.08
29	YF	201	PEB	CAB-C3B-C2B	-2.22	123.73	127.88
29	YI	201	PEB	CAB-C3B-C2B	-2.22	123.73	127.88
29	N3	202	PEB	OD-C4D-ND	-2.22	122.64	125.93
29	T2	201	PEB	CAC-CBC-CGC	-2.22	107.52	113.76
29	E4	203	PEB	CAC-CBC-CGC	-2.22	107.52	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	yJ	301	PEB	CHA-C1B-NB	-2.22	120.28	124.93
29	yL	301	PEB	CHA-C1B-NB	-2.22	120.28	124.93
29	V2	201	PEB	CAC-CBC-CGC	-2.22	107.52	113.76
31	J1	1001	CYC	C1B-CHB-C4A	-2.22	122.65	128.08
31	JK	1001	CYC	C1B-CHB-C4A	-2.22	122.65	128.08
30	MQ	404	PUB	C1D-CHC-C4C	-2.22	108.53	113.37
29	b7	201	PEB	C4B-C3B-C2B	-2.22	104.32	106.78
29	b9	201	PEB	C4B-C3B-C2B	-2.22	104.32	106.78
29	EA	202	PEB	OD-C4D-C3D	-2.22	124.42	129.46
29	EN	202	PEB	OD-C4D-C3D	-2.22	124.42	129.46
29	FA	201	PEB	C1C-CHB-C4B	-2.22	126.15	128.81
29	FN	201	PEB	C1C-CHB-C4B	-2.22	126.15	128.81
29	TJ	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	TL	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	RR	201	PEB	CAC-CBC-CGC	-2.22	107.53	113.76
31	SP	1001	CYC	C2C-C1C-NC	2.22	110.19	108.27
29	VR	201	PEB	CAC-CBC-CGC	-2.22	107.53	113.76
29	XR	203	PEB	CMB-C2B-C1B	2.22	128.49	125.06
31	H1	1001	CYC	CHB-C4A-C3A	2.22	130.61	124.90
29	A3	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	JJ	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	JL	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	AO	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	K3	201	PEB	CHB-C4B-C3B	-2.22	120.19	125.32
29	KO	201	PEB	CHB-C4B-C3B	-2.22	120.19	125.32
31	J9	1001	CYC	C2C-C1C-NC	2.22	110.19	108.27
29	IA	202	PEB	OD-C4D-C3D	-2.22	124.43	129.46
29	OF	202	PEB	OD-C4D-C3D	-2.22	124.43	129.46
29	OI	202	PEB	OD-C4D-C3D	-2.22	124.43	129.46
29	IN	202	PEB	OD-C4D-C3D	-2.22	124.43	129.46
29	F5	201	PEB	CHC-C1D-ND	-2.22	111.37	113.95
29	F8	201	PEB	CHC-C1D-ND	-2.22	111.37	113.95
29	BD	201	PEB	CAA-C3A-C4A	-2.22	106.97	112.67
29	f7	201	PEB	C4B-C3B-C2B	-2.22	104.33	106.78
29	f9	201	PEB	C4B-C3B-C2B	-2.22	104.33	106.78
29	fF	202	PEB	CBC-CAC-C2C	-2.22	108.83	112.62
29	fI	202	PEB	CBC-CAC-C2C	-2.22	108.83	112.62
29	f1	201	PEB	CHA-C4A-NA	2.22	127.84	125.20
29	fK	201	PEB	CHA-C4A-NA	2.22	127.84	125.20
29	G8	201	PEB	CAB-C3B-C4B	2.22	128.94	125.01
29	AB	301	PEB	C2A-C1A-NA	2.22	110.19	108.27
29	SR	202	PEB	CMB-C2B-C1B	2.22	128.48	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	J1	1002	PEB	C1B-C2B-C3B	-2.22	103.96	106.51
29	JK	1002	PEB	C1B-C2B-C3B	-2.22	103.96	106.51
29	A5	203	PEB	CAB-CBB-CGB	-2.22	108.83	113.60
29	G5	201	PEB	CAB-CBB-CGB	-2.22	108.83	113.60
29	A3	202	PEB	C1C-CHB-C4B	2.22	131.46	128.81
29	AO	202	PEB	C1C-CHB-C4B	2.22	131.46	128.81
29	JA	201	PEB	C1C-CHB-C4B	-2.22	126.16	128.81
29	JN	201	PEB	C1C-CHB-C4B	-2.22	126.16	128.81
29	BJ	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	uJ	201	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	BL	202	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	uL	201	PEB	C2B-C1B-NB	2.22	115.27	110.53
29	X2	202	PEB	CMB-C2B-C1B	2.22	128.48	125.06
29	BD	201	PEB	CMD-C2D-C3D	2.22	133.19	130.06
29	MG	405	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	H4	201	PEB	CAA-C3A-C4A	-2.22	106.98	112.67
29	RJ	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	RL	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	G3	201	PEB	CHB-C4B-C3B	-2.22	120.20	125.32
29	GO	201	PEB	CHB-C4B-C3B	-2.22	120.20	125.32
29	dJ	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	dL	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	AC	203	PEB	OD-C4D-ND	-2.22	122.65	125.93
29	AE	203	PEB	OD-C4D-ND	-2.22	122.65	125.93
29	xJ	303	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	fF	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
29	fI	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
30	MG	402	PUB	C1D-CHC-C4C	-2.22	108.54	113.37
31	DK	1001	CYC	C1B-CHB-C4A	-2.22	122.67	128.08
31	J1	1001	CYC	CHB-C4A-C3A	2.22	130.60	124.90
31	JK	1001	CYC	CHB-C4A-C3A	2.22	130.60	124.90
31	N1	1001	CYC	C1B-CHB-C4A	-2.22	122.67	128.08
29	CA	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
29	CN	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
29	K3	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	KO	202	PEB	C2B-C1B-NB	2.22	115.26	110.53
31	GF	1001	CYC	CHB-C1B-NB	-2.22	121.30	126.06
31	GI	1001	CYC	CHB-C1B-NB	-2.22	121.30	126.06
31	HK	1001	CYC	CHB-C4A-C3A	2.22	130.60	124.90
29	V2	203	PEB	CMB-C2B-C1B	2.22	128.48	125.06
31	L1	1001	CYC	C1B-CHB-C4A	-2.22	122.67	128.08
31	LK	1001	CYC	C1B-CHB-C4A	-2.22	122.67	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	LG	203	PEB	C1B-C2B-C3B	-2.22	103.96	106.51
29	NK	1002	PEB	C1B-C2B-C3B	-2.22	103.96	106.51
29	BA	201	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	BN	201	PEB	C2B-C1B-NB	2.22	115.26	110.53
29	K5	203	PEB	CAB-CBB-CGB	-2.22	108.84	113.60
29	K8	203	PEB	CAB-CBB-CGB	-2.22	108.84	113.60
29	E3	201	PEB	CHB-C4B-C3B	-2.22	120.20	125.32
29	EO	201	PEB	CHB-C4B-C3B	-2.22	120.20	125.32
29	QF	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
29	QI	202	PEB	OD-C4D-C3D	-2.22	124.44	129.46
31	vP	1001	CYC	C1A-C2A-C3A	-2.21	104.33	106.78
29	mF	201	PEB	CAB-C3B-C2B	-2.21	123.75	127.88
29	mI	201	PEB	CAB-C3B-C2B	-2.21	123.75	127.88
29	JD	201	PEB	CAA-C3A-C4A	-2.21	106.99	112.67
29	xJ	303	PEB	O2B-CGB-CBB	2.21	121.14	114.03
29	L4	201	PEB	CAA-C3A-C4A	-2.21	106.99	112.67
31	L1	1001	CYC	CHB-C4A-C3A	2.21	130.59	124.90
31	LK	1001	CYC	CHB-C4A-C3A	2.21	130.59	124.90
29	C5	203	PEB	CAB-CBB-CGB	-2.21	108.84	113.60
29	C8	203	PEB	CAB-CBB-CGB	-2.21	108.84	113.60
30	AF	302	PUB	CBB-CAB-C3B	-2.21	108.84	112.62
30	AI	302	PUB	CBB-CAB-C3B	-2.21	108.84	112.62
31	F7	1001	CYC	C2C-C1C-NC	2.21	110.18	108.27
29	IA	201	PEB	C4B-NB-C1B	-2.21	102.34	106.51
29	IN	201	PEB	C4B-NB-C1B	-2.21	102.34	106.51
29	J5	201	PEB	C4B-C3B-C2B	-2.21	104.33	106.78
29	J8	201	PEB	C4B-C3B-C2B	-2.21	104.33	106.78
29	F4	201	PEB	CAA-C3A-C4A	-2.21	106.99	112.67
29	H8	201	PEB	CHC-C1D-ND	-2.21	111.38	113.95
30	BB	302	PUB	C2C-C1C-NC	2.21	113.27	110.05
30	BM	302	PUB	C2C-C1C-NC	2.21	113.27	110.05
29	IG	201	PEB	C2B-C1B-NB	2.21	115.25	110.53
29	IQ	201	PEB	C2B-C1B-NB	2.21	115.25	110.53
31	D7	1001	CYC	C2C-C1C-NC	2.21	110.18	108.27
31	D9	1001	CYC	C2C-C1C-NC	2.21	110.18	108.27
29	HG	203	PEB	C1B-C2B-C3B	-2.21	103.97	106.51
29	HD	201	PEB	CBA-CAA-C3A	-2.21	108.54	113.47
29	A7	304	PEB	CAA-C3A-C4A	2.21	118.35	112.67
29	lF	202	PEB	OD-C4D-C3D	-2.21	124.45	129.46
29	II	202	PEB	OD-C4D-C3D	-2.21	124.45	129.46
29	wJ	303	PEB	O2B-CGB-CBB	2.21	121.14	114.03
29	wL	303	PEB	O2B-CGB-CBB	2.21	121.14	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JD	201	PEB	CBA-CAA-C3A	-2.21	108.54	113.47
29	wJ	302	PEB	CHC-C1D-ND	-2.21	111.38	113.95
29	hF	202	PEB	OD-C4D-C3D	-2.21	124.45	129.46
29	hI	202	PEB	OD-C4D-C3D	-2.21	124.45	129.46
29	J4	201	PEB	CAA-C3A-C4A	-2.21	107.00	112.67
29	B8	201	PEB	CHC-C1D-ND	-2.21	111.38	113.95
29	HD	201	PEB	CAA-C3A-C4A	-2.21	107.00	112.67
29	O7	201	PEB	C4B-C3B-C2B	-2.21	104.34	106.78
29	O9	201	PEB	C4B-C3B-C2B	-2.21	104.34	106.78
31	L9	1001	CYC	C2C-C1C-NC	2.21	110.18	108.27
29	TR	203	PEB	CMB-C2B-C1B	2.21	128.47	125.06
29	J1	1002	PEB	O1C-CGC-CBC	-2.21	115.98	123.08
29	JK	1002	PEB	O1C-CGC-CBC	-2.21	115.98	123.08
29	MR	202	PEB	CHC-C1D-ND	-2.21	111.38	113.95
31	xP	1001	CYC	CHB-C1B-C2B	-2.21	122.57	126.95
29	M3	202	PEB	OD-C4D-ND	-2.21	122.66	125.93
29	MO	202	PEB	OD-C4D-ND	-2.21	122.66	125.93
29	xJ	302	PEB	CHC-C1D-ND	-2.21	111.38	113.95
29	G8	201	PEB	CAB-CBB-CGB	-2.21	108.85	113.60
29	G3	202	PEB	OD-C4D-C3D	-2.21	124.46	129.46
29	GO	202	PEB	OD-C4D-C3D	-2.21	124.46	129.46
29	DD	201	PEB	CAA-C3A-C4A	-2.21	107.00	112.67
29	H5	203	PEB	CAB-C3B-C4B	2.21	128.91	125.01
29	LA	201	PEB	C2B-C1B-NB	2.21	115.24	110.53
29	LN	201	PEB	C2B-C1B-NB	2.21	115.24	110.53
29	N1	1002	PEB	O1C-CGC-CBC	-2.21	115.99	123.08
29	FF	1002	PEB	OD-C4D-ND	-2.21	122.66	125.93
29	FI	1002	PEB	OD-C4D-ND	-2.21	122.66	125.93
29	NO	202	PEB	OD-C4D-ND	-2.21	122.66	125.93
31	YP	1000	CYC	C4D-CHA-C1A	2.21	131.44	128.81
31	F1	1001	CYC	C1B-CHB-C4A	-2.21	122.69	128.08
31	FK	1001	CYC	C1B-CHB-C4A	-2.21	122.69	128.08
29	F5	201	PEB	CAB-CBB-CGB	-2.21	108.86	113.60
29	H5	201	PEB	CAB-CBB-CGB	-2.21	108.86	113.60
29	F8	201	PEB	CAB-CBB-CGB	-2.21	108.86	113.60
31	fP	1001	CYC	C2C-C1C-NC	2.21	110.17	108.27
31	oP	1001	CYC	C2C-C1C-NC	2.21	110.17	108.27
29	ZF	202	PEB	CBC-CAC-C2C	-2.21	108.86	112.62
29	ZI	202	PEB	CBC-CAC-C2C	-2.21	108.86	112.62
29	F8	201	PEB	CAB-C3B-C4B	2.21	128.91	125.01
29	D1	1002	PEB	O1C-CGC-CBC	-2.21	116.00	123.08
29	I4	203	PEB	CBC-CAC-C2C	-2.20	108.86	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Q1	201	PEB	CHA-C4A-NA	2.20	127.83	125.20
29	QK	201	PEB	CHA-C4A-NA	2.20	127.83	125.20
29	D1	1002	PEB	C1B-C2B-C3B	-2.20	103.98	106.51
31	NK	1001	CYC	CHB-C4A-C3A	2.20	130.57	124.90
29	ZF	202	PEB	OD-C4D-C3D	-2.20	124.47	129.46
29	ZI	202	PEB	OD-C4D-C3D	-2.20	124.47	129.46
29	J4	201	PEB	CBA-CAA-C3A	-2.20	108.56	113.47
29	L1	1002	PEB	O1C-CGC-CBC	-2.20	116.00	123.08
29	LK	1002	PEB	O1C-CGC-CBC	-2.20	116.00	123.08
29	FG	203	PEB	C1B-C2B-C3B	-2.20	103.98	106.51
29	DK	1002	PEB	C1B-C2B-C3B	-2.20	103.98	106.51
29	FC	202	PEB	CAB-C3B-C4B	2.20	128.91	125.01
29	FE	202	PEB	CAB-C3B-C4B	2.20	128.91	125.01
29	E3	202	PEB	C2B-C1B-NB	2.20	115.23	110.53
29	EO	202	PEB	C2B-C1B-NB	2.20	115.23	110.53
29	bF	202	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	dF	203	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	bI	202	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	dI	203	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	AM	302	PEB	CHA-C4A-NA	2.20	127.82	125.20
29	bF	202	PEB	OD-C4D-C3D	-2.20	124.47	129.46
29	bI	202	PEB	OD-C4D-C3D	-2.20	124.47	129.46
30	A7	302	PUB	CAC-CBC-CGC	-2.20	108.86	113.60
30	A9	302	PUB	CAC-CBC-CGC	-2.20	108.86	113.60
29	A3	202	PEB	CHA-C1B-NB	-2.20	120.33	124.93
29	AO	202	PEB	CHA-C1B-NB	-2.20	120.33	124.93
30	AB	304	PUB	CMC-C3C-C4C	2.20	132.97	126.37
29	SF	202	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	SI	202	PEB	CBC-CAC-C2C	-2.20	108.86	112.62
29	JA	201	PEB	C2B-C1B-NB	2.20	115.23	110.53
29	JN	201	PEB	C2B-C1B-NB	2.20	115.23	110.53
31	E1	1001	CYC	CMB-C2B-C1B	2.20	126.91	124.17
29	C3	202	PEB	C2B-C1B-NB	2.20	115.22	110.53
29	CO	202	PEB	C2B-C1B-NB	2.20	115.22	110.53
29	dF	203	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	dI	203	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	H1	1002	PEB	C1B-C2B-C3B	-2.20	103.98	106.51
29	B8	201	PEB	CAB-CBB-CGB	-2.20	108.87	113.60
29	hF	202	PEB	CBC-CAC-C2C	-2.20	108.87	112.62
29	hI	202	PEB	CBC-CAC-C2C	-2.20	108.87	112.62
29	I3	202	PEB	C2B-C1B-NB	2.20	115.22	110.53
29	IO	202	PEB	C2B-C1B-NB	2.20	115.22	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	HK	1002	PEB	C1B-C2B-C3B	-2.20	103.98	106.51
29	H4	201	PEB	CBA-CAA-C3A	-2.20	108.57	113.47
29	G4	202	PEB	CMD-C2D-C3D	2.20	133.16	130.06
29	SF	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	FG	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	SI	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	FQ	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	ED	201	PEB	CMD-C2D-C3D	2.20	133.16	130.06
29	jF	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	jI	202	PEB	OD-C4D-C3D	-2.20	124.48	129.46
29	L8	201	PEB	CAB-CBB-CGB	-2.20	108.88	113.60
29	F1	1002	PEB	O1C-CGC-CBC	-2.20	116.03	123.08
29	FK	1002	PEB	O1C-CGC-CBC	-2.20	116.03	123.08
31	QP	1001	CYC	C2C-C1C-NC	2.20	110.17	108.27
29	LA	203	PEB	CAB-C3B-C4B	2.20	128.89	125.01
29	LN	203	PEB	CAB-C3B-C4B	2.20	128.89	125.01
29	ID	202	PEB	CMD-C2D-C3D	2.20	133.16	130.06
29	WF	202	PEB	OD-C4D-C3D	-2.20	124.49	129.46
29	WI	202	PEB	OD-C4D-C3D	-2.20	124.49	129.46
31	F1	1001	CYC	CHB-C4A-C3A	2.20	130.54	124.90
31	FK	1001	CYC	CHB-C4A-C3A	2.20	130.54	124.90
29	DD	201	PEB	CBA-CAA-C3A	-2.19	108.58	113.47
29	E3	202	PEB	CHA-C1B-NB	-2.19	120.34	124.93
29	EO	202	PEB	CHA-C1B-NB	-2.19	120.34	124.93
29	HC	202	PEB	CAB-C3B-C4B	2.19	128.89	125.01
29	HE	202	PEB	CAB-C3B-C4B	2.19	128.89	125.01
29	F1	1002	PEB	C1B-C2B-C3B	-2.19	103.99	106.51
29	FK	1002	PEB	C1B-C2B-C3B	-2.19	103.99	106.51
29	E4	202	PEB	CMD-C2D-C3D	2.19	133.16	130.06
29	OF	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
29	OI	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
30	AM	304	PUB	CMC-C3C-C4C	2.19	132.95	126.37
29	aF	201	PEB	C2B-C1B-NB	2.19	115.21	110.53
29	aI	201	PEB	C2B-C1B-NB	2.19	115.21	110.53
31	F9	1001	CYC	C2C-C1C-NC	2.19	110.16	108.27
31	DK	1001	CYC	CHB-C4A-C3A	2.19	130.54	124.90
31	rP	1001	CYC	C1A-C2A-C3A	-2.19	104.36	106.78
29	NK	1002	PEB	O1C-CGC-CBC	-2.19	116.04	123.08
31	wP	1001	CYC	C2C-C1C-NC	2.19	110.16	108.27
31	1P	1001	CYC	C2C-C1C-NC	2.19	110.16	108.27
29	L5	203	PEB	CAB-C3B-C4B	2.19	128.89	125.01
29	AC	203	PEB	CAB-C3B-C4B	2.19	128.89	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AE	203	PEB	CAB-C3B-C4B	2.19	128.89	125.01
29	AA	201	PEB	CMA-C2A-C1A	-2.19	107.68	112.40
29	AN	201	PEB	CMA-C2A-C1A	-2.19	107.68	112.40
29	M4	202	PEB	CMD-C2D-C3D	2.19	133.16	130.06
29	K3	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	KO	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	H8	201	PEB	CAB-CBB-CGB	-2.19	108.89	113.60
29	JG	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	JQ	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	B5	201	PEB	C1C-CHB-C4B	-2.19	126.19	128.81
31	N1	1001	CYC	CHB-C4A-C3A	2.19	130.53	124.90
29	jF	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
29	jI	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
29	DK	1002	PEB	O1C-CGC-CBC	-2.19	116.04	123.08
29	AB	302	PEB	CHA-C4A-NA	2.19	127.81	125.20
30	AB	304	PUB	CBB-CAB-C3B	-2.19	108.88	112.62
29	RR	203	PEB	CMB-C2B-C1B	2.19	128.44	125.06
31	mP	1001	CYC	C1A-C2A-C3A	-2.19	104.36	106.78
29	WF	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
29	WI	202	PEB	CBC-CAC-C2C	-2.19	108.88	112.62
29	FQ	203	PEB	C1B-C2B-C3B	-2.19	104.00	106.51
29	D4	201	PEB	CAA-C3A-C4A	-2.19	107.05	112.67
29	BD	201	PEB	CBA-CAA-C3A	-2.19	108.59	113.47
29	C3	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	CO	202	PEB	OD-C4D-C3D	-2.19	124.50	129.46
29	AM	301	PEB	CHC-C1D-ND	-2.19	111.41	113.95
29	MR	202	PEB	OD-C4D-ND	-2.19	122.69	125.93
29	K3	202	PEB	CHA-C1B-NB	-2.19	120.36	124.93
29	KO	202	PEB	CHA-C1B-NB	-2.19	120.36	124.93
31	CK	1001	CYC	CMB-C2B-C1B	2.19	126.90	124.17
29	F5	201	PEB	CAB-C3B-C4B	2.19	128.88	125.01
29	L4	201	PEB	CBA-CAA-C3A	-2.19	108.60	113.47
29	L5	201	PEB	CAB-CBB-CGB	-2.19	108.90	113.60
29	CA	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	CN	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	FD	201	PEB	CAA-C3A-C4A	-2.19	107.06	112.67
29	L5	201	PEB	CHC-C1D-ND	-2.19	111.41	113.95
29	L9	1002	PEB	CAA-C3A-C4A	-2.19	107.06	112.67
29	AA	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	AN	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	m1	202	PEB	CMA-C2A-C1A	-2.19	107.69	112.40
29	mK	202	PEB	CMA-C2A-C1A	-2.19	107.69	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	sP	1001	CYC	C2C-C1C-NC	2.19	110.16	108.27
29	G5	203	PEB	CAB-C3B-C4B	2.19	128.87	125.01
29	B8	203	PEB	CAB-C3B-C4B	2.19	128.87	125.01
29	EA	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	EN	201	PEB	C4B-NB-C1B	-2.19	102.39	106.51
29	R2	203	PEB	CMB-C2B-C1B	2.19	128.43	125.06
29	DG	202	PEB	OD-C4D-C3D	-2.19	124.51	129.46
29	LG	202	PEB	OD-C4D-C3D	-2.19	124.51	129.46
29	DQ	202	PEB	OD-C4D-C3D	-2.19	124.51	129.46
29	LQ	201	PEB	OD-C4D-C3D	-2.19	124.51	129.46
29	xL	303	PEB	O2B-CGB-CBB	2.18	121.05	114.03
29	lF	202	PEB	CBC-CAC-C2C	-2.18	108.89	112.62
29	lI	202	PEB	CBC-CAC-C2C	-2.18	108.89	112.62
31	D1	1001	CYC	CHB-C4A-C3A	2.18	130.52	124.90
29	EA	201	PEB	CMA-C2A-C1A	-2.18	107.69	112.40
29	EN	201	PEB	CMA-C2A-C1A	-2.18	107.69	112.40
29	KC	201	PEB	CAB-C3B-C4B	2.18	128.87	125.01
29	KE	201	PEB	CAB-C3B-C4B	2.18	128.87	125.01
29	UF	203	PEB	CBC-CAC-C2C	-2.18	108.89	112.62
29	UI	203	PEB	CBC-CAC-C2C	-2.18	108.89	112.62
29	B4	201	PEB	CBA-CAA-C3A	-2.18	108.61	113.47
29	RF	201	PEB	C2B-C1B-NB	2.18	115.19	110.53
29	RI	201	PEB	C2B-C1B-NB	2.18	115.19	110.53
29	H1	1002	PEB	O1C-CGC-CBC	-2.18	116.07	123.08
30	AM	304	PUB	CBB-CAB-C3B	-2.18	108.89	112.62
29	MN	405	PEB	OD-C4D-ND	-2.18	122.70	125.93
29	h1	201	PEB	CHA-C4A-NA	2.18	127.80	125.20
29	hK	201	PEB	CHA-C4A-NA	2.18	127.80	125.20
29	LC	202	PEB	CAB-C3B-C4B	2.18	128.87	125.01
29	LE	202	PEB	CAB-C3B-C4B	2.18	128.87	125.01
29	I3	202	PEB	CHA-C1B-NB	-2.18	120.37	124.93
29	IO	202	PEB	CHA-C1B-NB	-2.18	120.37	124.93
29	E3	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	EO	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	HG	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	HQ	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
31	lI	1001	CYC	CMB-C2B-C1B	2.18	126.89	124.17
31	CP	1001	CYC	C1A-C2A-C3A	-2.18	104.37	106.78
31	NP	1001	CYC	C1A-C2A-C3A	-2.18	104.37	106.78
29	DG	203	PEB	C1B-C2B-C3B	-2.18	104.00	106.51
29	E3	202	PEB	C1C-CHB-C4B	2.18	131.41	128.81
29	EO	202	PEB	C1C-CHB-C4B	2.18	131.41	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	H5	201	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	HA	203	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	HN	203	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	e1	203	PEB	CMA-C2A-C1A	-2.18	107.70	112.40
29	eK	203	PEB	CMA-C2A-C1A	-2.18	107.70	112.40
29	B5	201	PEB	CAB-CBB-CGB	-2.18	108.91	113.60
29	A3	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	BG	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	AO	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	BQ	202	PEB	OD-C4D-C3D	-2.18	124.52	129.46
29	g1	203	PEB	CMA-C2A-C1A	-2.18	107.71	112.40
29	gK	203	PEB	CMA-C2A-C1A	-2.18	107.71	112.40
30	yL	303	PUB	CAC-C2C-C1C	2.18	128.86	125.01
29	xL	302	PEB	CHC-C1D-ND	-2.18	111.42	113.95
29	G3	202	PEB	CHA-C1B-NB	-2.18	120.38	124.93
29	GO	202	PEB	CHA-C1B-NB	-2.18	120.38	124.93
29	C4	202	PEB	CMD-C2D-C3D	2.18	133.13	130.06
29	P2	201	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	C3	202	PEB	CHA-C1B-NB	-2.18	120.38	124.93
29	CO	202	PEB	CHA-C1B-NB	-2.18	120.38	124.93
29	H5	201	PEB	C1C-CHB-C4B	-2.18	126.21	128.81
29	BG	203	PEB	C1B-C2B-C3B	-2.18	104.01	106.51
29	I4	201	PEB	CHB-C4B-C3B	-2.18	120.29	125.32
29	BB	301	PEB	O2C-CGC-CBC	2.18	121.02	114.03
29	BM	301	PEB	O2C-CGC-CBC	2.18	121.02	114.03
31	AP	1001	CYC	C1A-C2A-C3A	-2.18	104.38	106.78
29	BA	203	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	BN	203	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	D4	201	PEB	CBA-CAA-C3A	-2.18	108.62	113.47
29	F4	201	PEB	CBA-CAA-C3A	-2.18	108.62	113.47
29	G8	203	PEB	CAB-C3B-C4B	2.18	128.86	125.01
29	cF	201	PEB	C2B-C1B-NB	2.17	115.17	110.53
29	cI	201	PEB	C2B-C1B-NB	2.17	115.17	110.53
29	QF	202	PEB	CBC-CAC-C2C	-2.17	108.91	112.62
29	QI	202	PEB	CBC-CAC-C2C	-2.17	108.91	112.62
29	i1	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	IA	201	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	iK	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	IN	201	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	J9	1002	PEB	CAA-C3A-C4A	-2.17	107.09	112.67
29	VF	201	PEB	C2B-C1B-NB	2.17	115.17	110.53
29	VI	201	PEB	C2B-C1B-NB	2.17	115.17	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GA	201	PEB	C4B-NB-C1B	-2.17	102.42	106.51
29	GN	201	PEB	C4B-NB-C1B	-2.17	102.42	106.51
29	V1	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	VK	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	A1	303	PEB	CBA-CAA-C3A	-2.17	108.63	113.47
29	AK	303	PEB	CBA-CAA-C3A	-2.17	108.63	113.47
29	dD	401	PEB	CHB-C4B-C3B	-2.17	120.30	125.32
31	J1	1001	CYC	CHA-C1A-C2A	-2.17	120.30	125.32
31	JK	1001	CYC	CHA-C1A-C2A	-2.17	120.30	125.32
31	eP	1001	CYC	C1A-C2A-C3A	-2.17	104.38	106.78
29	KA	201	PEB	C4B-NB-C1B	-2.17	102.42	106.51
29	KN	201	PEB	C4B-NB-C1B	-2.17	102.42	106.51
29	UF	203	PEB	OD-C4D-C3D	-2.17	124.54	129.46
29	UI	203	PEB	OD-C4D-C3D	-2.17	124.54	129.46
29	FD	201	PEB	CBA-CAA-C3A	-2.17	108.63	113.47
29	C3	202	PEB	C1C-CHB-C4B	2.17	131.40	128.81
29	F5	201	PEB	C1C-CHB-C4B	-2.17	126.21	128.81
29	F8	201	PEB	C1C-CHB-C4B	-2.17	126.21	128.81
29	CO	202	PEB	C1C-CHB-C4B	2.17	131.40	128.81
29	L8	203	PEB	CAB-C3B-C4B	2.17	128.85	125.01
29	R1	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	RK	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	L1	1002	PEB	C1B-C2B-C3B	-2.17	104.01	106.51
29	LK	1002	PEB	C1B-C2B-C3B	-2.17	104.01	106.51
29	MD	202	PEB	CMD-C2D-C3D	2.17	133.13	130.06
29	DA	203	PEB	CAB-C3B-C4B	2.17	128.85	125.01
29	DN	203	PEB	CAB-C3B-C4B	2.17	128.85	125.01
29	LD	201	PEB	CBA-CAA-C3A	-2.17	108.63	113.47
29	BC	201	PEB	CMB-C2B-C1B	2.17	128.41	125.06
29	JC	201	PEB	CMB-C2B-C1B	2.17	128.41	125.06
29	BE	201	PEB	CMB-C2B-C1B	2.17	128.41	125.06
29	JE	201	PEB	CMB-C2B-C1B	2.17	128.41	125.06
31	RP	1001	CYC	C1A-C2A-C3A	-2.17	104.38	106.78
29	P1	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	PK	203	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	L7	1002	PEB	CAA-C3A-C4A	-2.17	107.10	112.67
29	XB	202	PEB	OD-C4D-C3D	-2.17	124.54	129.46
29	XM	202	PEB	OD-C4D-C3D	-2.17	124.54	129.46
29	HK	1002	PEB	O1C-CGC-CBC	-2.17	116.11	123.08
31	L1	1001	CYC	CHA-C1A-C2A	-2.17	120.31	125.32
31	LK	1001	CYC	CHA-C1A-C2A	-2.17	120.31	125.32
29	HQ	203	PEB	C1B-C2B-C3B	-2.17	104.02	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	MG	403	PUB	C2C-C1C-NC	2.17	113.21	110.05
29	GA	201	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	GN	201	PEB	CMA-C2A-C1A	-2.17	107.72	112.40
29	G3	202	PEB	C1C-CHB-C4B	2.17	131.40	128.81
29	GO	202	PEB	C1C-CHB-C4B	2.17	131.40	128.81
29	U2	202	PEB	CAA-C3A-C4A	2.17	118.24	112.67
29	F5	203	PEB	CAB-C3B-C4B	2.17	128.85	125.01
29	F8	203	PEB	CAB-C3B-C4B	2.17	128.85	125.01
29	L8	201	PEB	CHC-C1D-ND	-2.17	111.43	113.95
29	AB	301	PEB	CHC-C1D-ND	-2.17	111.43	113.95
31	NK	1001	CYC	CHA-C1A-C2A	-2.17	120.31	125.32
29	c1	203	PEB	CMA-C2A-C1A	-2.17	107.73	112.40
29	cK	203	PEB	CMA-C2A-C1A	-2.17	107.73	112.40
29	CG	201	PEB	CHA-C1B-NB	-2.17	120.40	124.93
29	CQ	201	PEB	CHA-C1B-NB	-2.17	120.40	124.93
29	MA	405	PEB	OD-C4D-ND	-2.17	122.72	125.93
29	B5	203	PEB	CAB-C3B-C4B	2.17	128.84	125.01
29	ID	201	PEB	CHB-C4B-C3B	-2.17	120.31	125.32
29	I3	202	PEB	OD-C4D-C3D	-2.17	124.55	129.46
29	IO	202	PEB	OD-C4D-C3D	-2.17	124.55	129.46
29	H8	203	PEB	CAB-C3B-C4B	2.17	128.84	125.01
29	TI	201	PEB	C2B-C1B-NB	2.17	115.15	110.53
29	a1	203	PEB	CMA-C2A-C1A	-2.17	107.73	112.40
29	aK	203	PEB	CMA-C2A-C1A	-2.17	107.73	112.40
29	C4	201	PEB	CHB-C4B-C3B	-2.17	120.32	125.32
29	AM	301	PEB	C2A-C1A-NA	2.17	110.14	108.27
29	kF	201	PEB	C2B-C1B-NB	2.17	115.15	110.53
29	kI	201	PEB	C2B-C1B-NB	2.17	115.15	110.53
29	J7	1002	PEB	CAA-C3A-C4A	-2.17	107.11	112.67
31	F1	1001	CYC	CHA-C1A-C2A	-2.16	120.32	125.32
31	FK	1001	CYC	CHA-C1A-C2A	-2.16	120.32	125.32
29	SF	201	PEB	CAB-CBB-CGB	-2.16	108.94	113.60
29	SI	201	PEB	CAB-CBB-CGB	-2.16	108.94	113.60
29	D7	1002	PEB	CAA-C3A-C4A	-2.16	107.12	112.67
29	D9	1002	PEB	CAA-C3A-C4A	-2.16	107.12	112.67
30	AM	304	PUB	CAC-C2C-C1C	2.16	128.84	125.01
29	SF	201	PEB	C4B-NB-C1B	-2.16	102.43	106.51
29	SI	201	PEB	C4B-NB-C1B	-2.16	102.43	106.51
29	AF	304	PEB	CHA-C1B-C2B	2.16	130.46	124.90
29	AI	304	PEB	CHA-C1B-C2B	2.16	130.46	124.90
31	HK	1001	CYC	CHA-C1A-C2A	-2.16	120.32	125.32
31	IK	1001	CYC	CMB-C2B-C1B	2.16	126.87	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JG	203	PEB	C1B-C2B-C3B	-2.16	104.03	106.51
29	Y1	202	PEB	CMA-C2A-C1A	-2.16	107.74	112.40
29	YK	202	PEB	CMA-C2A-C1A	-2.16	107.74	112.40
31	M1	1001	CYC	CMB-C2B-C1B	2.16	126.87	124.17
31	MK	1001	CYC	CMB-C2B-C1B	2.16	126.87	124.17
29	V2	202	PEB	CAB-C3B-C4B	2.16	128.83	125.01
29	H8	201	PEB	CAB-C3B-C4B	2.16	128.83	125.01
29	gF	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
29	gI	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
29	I4	202	PEB	CMD-C2D-C3D	2.16	133.11	130.06
29	JQ	203	PEB	C1B-C2B-C3B	-2.16	104.03	106.51
29	YF	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
29	YI	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
31	JP	1001	CYC	C1A-C2A-C3A	-2.16	104.39	106.78
29	H7	1002	PEB	CAA-C3A-C4A	-2.16	107.12	112.67
29	H9	1002	PEB	CAA-C3A-C4A	-2.16	107.12	112.67
29	BC	202	PEB	CAB-C3B-C4B	2.16	128.83	125.01
29	BE	202	PEB	CAB-C3B-C4B	2.16	128.83	125.01
31	D1	1001	CYC	CHA-C1A-C2A	-2.16	120.33	125.32
29	E4	201	PEB	CHB-C4B-C3B	-2.16	120.33	125.32
29	c7	203	PEB	C1B-C2B-C3B	-2.16	104.03	106.51
29	c9	203	PEB	C1B-C2B-C3B	-2.16	104.03	106.51
29	mF	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
29	mI	201	PEB	C2B-C1B-NB	2.16	115.14	110.53
29	SF	201	PEB	CHB-C4B-NB	-2.16	125.83	128.83
29	SI	201	PEB	CHB-C4B-NB	-2.16	125.83	128.83
29	LC	201	PEB	CMB-C2B-C1B	2.16	128.39	125.06
29	LE	201	PEB	CMB-C2B-C1B	2.16	128.39	125.06
29	H8	201	PEB	C1C-CHB-C4B	-2.16	126.23	128.81
29	TR	202	PEB	CAB-C3B-C4B	2.16	128.83	125.01
31	N1	1001	CYC	CHA-C1A-C2A	-2.16	120.33	125.32
29	B8	201	PEB	C1C-CHB-C4B	-2.16	126.23	128.81
29	BD	201	PEB	CHA-C1B-C2B	2.16	130.45	124.90
29	k1	203	PEB	CMA-C2A-C1A	-2.16	107.75	112.40
29	kK	203	PEB	CMA-C2A-C1A	-2.16	107.75	112.40
29	T2	203	PEB	CMB-C2B-C1B	2.16	128.39	125.06
31	F9	1001	CYC	CHB-C1B-NB	-2.16	121.43	126.06
29	MB	202	PEB	OD-C4D-ND	-2.16	122.73	125.93
29	MM	202	PEB	OD-C4D-ND	-2.16	122.73	125.93
29	WF	201	PEB	CHB-C4B-NB	-2.16	125.83	128.83
29	WI	201	PEB	CHB-C4B-NB	-2.16	125.83	128.83
31	1P	1002	CYC	C4D-CHA-C1A	2.16	131.38	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	h7	201	PEB	CAB-C3B-C4B	2.16	128.82	125.01
29	B8	201	PEB	CAB-C3B-C4B	2.16	128.82	125.01
29	h9	201	PEB	CAB-C3B-C4B	2.16	128.82	125.01
31	PP	1001	CYC	C1A-C2A-C3A	-2.16	104.40	106.78
31	TP	1001	CYC	C1A-C2A-C3A	-2.16	104.40	106.78
29	JA	203	PEB	CAB-C3B-C4B	2.16	128.82	125.01
29	JN	203	PEB	CAB-C3B-C4B	2.16	128.82	125.01
30	MQ	405	PUB	C2C-C1C-NC	2.16	113.19	110.05
29	CD	202	PEB	CMD-C2D-C3D	2.16	133.10	130.06
29	dF	202	PEB	C4B-NB-C1B	-2.16	102.45	106.51
29	hF	201	PEB	C4B-NB-C1B	-2.16	102.45	106.51
29	dI	202	PEB	C4B-NB-C1B	-2.16	102.45	106.51
29	hI	201	PEB	C4B-NB-C1B	-2.16	102.45	106.51
29	FB	203	PEB	OD-C4D-C3D	-2.16	124.58	129.46
29	FM	203	PEB	OD-C4D-C3D	-2.16	124.58	129.46
29	N7	1002	PEB	CAA-C3A-C4A	-2.16	107.14	112.67
29	N9	1002	PEB	CAA-C3A-C4A	-2.16	107.14	112.67
30	AB	304	PUB	CAC-C2C-C1C	2.15	128.82	125.01
29	PF	201	PEB	C2B-C1B-NB	2.15	115.13	110.53
29	PI	201	PEB	C2B-C1B-NB	2.15	115.13	110.53
29	T1	202	PEB	CMA-C2A-C1A	-2.15	107.76	112.40
29	TK	202	PEB	CMA-C2A-C1A	-2.15	107.76	112.40
29	WF	201	PEB	C4B-NB-C1B	-2.15	102.45	106.51
29	WI	201	PEB	C4B-NB-C1B	-2.15	102.45	106.51
29	iF	201	PEB	C2B-C1B-NB	2.15	115.12	110.53
29	iI	201	PEB	C2B-C1B-NB	2.15	115.12	110.53
29	PR	201	PEB	CAB-C3B-C4B	2.15	128.82	125.01
29	TF	201	PEB	OD-C4D-ND	-2.15	122.74	125.93
31	IP	1001	CYC	C1A-C2A-C3A	-2.15	104.40	106.78
29	FA	203	PEB	CAB-C3B-C4B	2.15	128.82	125.01
29	FN	203	PEB	CAB-C3B-C4B	2.15	128.82	125.01
29	TB	203	PEB	OD-C4D-C3D	-2.15	124.58	129.46
29	TM	203	PEB	OD-C4D-C3D	-2.15	124.58	129.46
29	EG	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	EQ	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	GG	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	GQ	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	KA	201	PEB	CMA-C2A-C1A	-2.15	107.76	112.40
29	KN	201	PEB	CMA-C2A-C1A	-2.15	107.76	112.40
29	NB	202	PEB	OD-C4D-C3D	-2.15	124.59	129.46
29	NM	202	PEB	OD-C4D-C3D	-2.15	124.59	129.46
29	L8	201	PEB	C1C-CHB-C4B	-2.15	126.24	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C1	1001	CYC	CMB-C2B-C1B	2.15	126.85	124.17
29	K5	203	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	KG	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	KQ	201	PEB	CHA-C1B-NB	-2.15	120.43	124.93
29	bF	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
29	bI	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
29	K4	202	PEB	CMD-C2D-C3D	2.15	133.10	130.06
29	GD	202	PEB	CMD-C2D-C3D	2.15	133.10	130.06
29	AG	201	PEB	CHA-C1B-NB	-2.15	120.44	124.93
29	AQ	201	PEB	CHA-C1B-NB	-2.15	120.44	124.93
29	g7	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	g9	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	CD	201	PEB	CHB-C4B-C3B	-2.15	120.35	125.32
29	hF	201	PEB	CAB-CBB-CGB	-2.15	108.98	113.60
29	hI	201	PEB	CAB-CBB-CGB	-2.15	108.98	113.60
29	M4	201	PEB	CHB-C4B-C3B	-2.15	120.36	125.32
29	CA	201	PEB	CMA-C2A-C1A	-2.15	107.77	112.40
29	CN	201	PEB	CMA-C2A-C1A	-2.15	107.77	112.40
29	mB	203	PEB	OD-C4D-C3D	-2.15	124.59	129.46
29	mM	203	PEB	OD-C4D-C3D	-2.15	124.59	129.46
29	DA	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
29	DN	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
31	cP	1001	CYC	C1A-C2A-C3A	-2.15	104.41	106.78
29	DD	201	PEB	CHA-C1B-C2B	2.15	130.43	124.90
29	dF	202	PEB	CHB-C4B-NB	-2.15	125.85	128.83
29	dI	202	PEB	CHB-C4B-NB	-2.15	125.85	128.83
29	a7	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	e7	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	a9	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	e9	203	PEB	C1B-C2B-C3B	-2.15	104.04	106.51
29	MD	201	PEB	CHB-C4B-C3B	-2.15	120.36	125.32
29	I5	203	PEB	CHA-C1B-NB	-2.15	120.44	124.93
29	FF	1002	PEB	CBD-CAD-C3D	-2.15	116.94	127.62
29	FI	1002	PEB	CBD-CAD-C3D	-2.15	116.94	127.62
29	eF	201	PEB	C2B-C1B-NB	2.15	115.11	110.53
29	eI	201	PEB	C2B-C1B-NB	2.15	115.11	110.53
29	BA	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
29	BN	201	PEB	C4B-NB-C1B	-2.15	102.46	106.51
29	lF	201	PEB	CHB-C4B-NB	-2.15	125.85	128.83
29	II	201	PEB	CHB-C4B-NB	-2.15	125.85	128.83
29	FA	201	PEB	C4B-NB-C1B	-2.15	102.47	106.51
29	FN	201	PEB	C4B-NB-C1B	-2.15	102.47	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L5	201	PEB	CAB-C3B-C4B	2.15	128.81	125.01
31	DK	1001	CYC	CHA-C1A-C2A	-2.15	120.36	125.32
29	kB	203	PEB	OD-C4D-C3D	-2.15	124.60	129.46
29	kM	203	PEB	OD-C4D-C3D	-2.15	124.60	129.46
29	XR	202	PEB	CAB-C3B-C4B	2.15	128.81	125.01
29	W7	201	PEB	CAB-C3B-C4B	2.15	128.80	125.01
29	W9	201	PEB	CAB-C3B-C4B	2.15	128.80	125.01
29	VR	202	PEB	CAB-C3B-C4B	2.15	128.80	125.01
31	tP	1001	CYC	C1A-C2A-C3A	-2.15	104.41	106.78
29	W2	202	PEB	CAA-C3A-C4A	2.15	118.18	112.67
29	lF	201	PEB	CAB-CBB-CGB	-2.15	108.99	113.60
29	II	201	PEB	CAB-CBB-CGB	-2.15	108.99	113.60
31	F7	1001	CYC	CHB-C1B-NB	-2.14	121.45	126.06
29	DC	201	PEB	CMB-C2B-C1B	2.14	128.37	125.06
29	DE	201	PEB	CMB-C2B-C1B	2.14	128.37	125.06
29	G5	201	PEB	C1C-CHB-C4B	-2.14	126.25	128.81
29	L5	201	PEB	C1C-CHB-C4B	-2.14	126.25	128.81
31	H1	1001	CYC	CHA-C1A-C2A	-2.14	120.37	125.32
29	A7	305	PEB	CMC-C3C-C2C	2.14	128.99	124.94
29	A9	305	PEB	CMC-C3C-C2C	2.14	128.99	124.94
29	HA	201	PEB	C4B-NB-C1B	-2.14	102.47	106.51
29	HN	201	PEB	C4B-NB-C1B	-2.14	102.47	106.51
29	AF	305	PEB	CHA-C1B-NB	-2.14	120.45	124.93
29	AI	305	PEB	CHA-C1B-NB	-2.14	120.45	124.93
31	KP	1001	CYC	C1A-C2A-C3A	-2.14	104.41	106.78
29	LF	1002	PEB	CMC-C3C-C2C	-2.14	120.90	124.94
29	LI	1002	PEB	CMC-C3C-C2C	-2.14	120.90	124.94
29	OF	201	PEB	CHB-C4B-NB	-2.14	125.85	128.83
29	OI	201	PEB	CHB-C4B-NB	-2.14	125.85	128.83
29	B5	201	PEB	CAB-C3B-C4B	2.14	128.80	125.01
29	K8	203	PEB	CHA-C1B-NB	-2.14	120.45	124.93
31	iP	1001	CYC	C1A-C2A-C3A	-2.14	104.41	106.78
29	L4	201	PEB	CHA-C1B-C2B	2.14	130.41	124.90
29	DF	1002	PEB	CMC-C3C-C2C	-2.14	120.90	124.94
29	DI	1002	PEB	CMC-C3C-C2C	-2.14	120.90	124.94
31	GK	1001	CYC	CMB-C2B-C1B	2.14	126.84	124.17
31	N7	1001	CYC	CHB-C1B-NB	-2.14	121.46	126.06
31	J9	1001	CYC	CHB-C1B-NB	-2.14	121.46	126.06
31	N9	1001	CYC	CHB-C1B-NB	-2.14	121.46	126.06
29	QF	201	PEB	CAB-CBB-CGB	-2.14	108.99	113.60
29	QI	201	PEB	CAB-CBB-CGB	-2.14	108.99	113.60
29	Z7	201	PEB	CAB-C3B-C4B	2.14	128.80	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z9	201	PEB	CAB-C3B-C4B	2.14	128.80	125.01
29	I4	203	PEB	CMB-C2B-C1B	2.14	128.36	125.06
31	EP	1001	CYC	C1A-C2A-C3A	-2.14	104.41	106.78
31	gP	1001	CYC	C1A-C2A-C3A	-2.14	104.41	106.78
29	F9	1002	PEB	CAA-C3A-C4A	-2.14	107.17	112.67
29	UR	202	PEB	CAA-C3A-C4A	2.14	118.17	112.67
29	D4	201	PEB	CHA-C1B-C2B	2.14	130.41	124.90
29	AB	301	PEB	C2B-C1B-NB	2.14	115.10	110.53
29	S2	202	PEB	CAA-C3A-C4A	2.14	118.17	112.67
29	DF	1002	PEB	CBD-CAD-C3D	-2.14	116.97	127.62
29	DI	1002	PEB	CBD-CAD-C3D	-2.14	116.97	127.62
29	QR	202	PEB	CAA-C3A-C4A	2.14	118.17	112.67
29	U7	201	PEB	CAB-C3B-C4B	2.14	128.79	125.01
29	U9	201	PEB	CAB-C3B-C4B	2.14	128.79	125.01
29	O2	202	PEB	CAA-C3A-C4A	2.14	118.17	112.67
31	xP	1001	CYC	CAB-C3B-C2B	2.14	131.19	127.53
29	LQ	202	PEB	C1B-C2B-C3B	-2.14	104.05	106.51
29	cB	203	PEB	OD-C4D-C3D	-2.14	124.61	129.46
29	cM	203	PEB	OD-C4D-C3D	-2.14	124.61	129.46
29	wL	302	PEB	CHC-C1D-ND	-2.14	111.46	113.95
29	AM	301	PEB	C2B-C1B-NB	2.14	115.09	110.53
31	EK	1001	CYC	CMB-C2B-C1B	2.14	126.84	124.17
29	gB	203	PEB	OD-C4D-C3D	-2.14	124.61	129.46
29	gM	203	PEB	OD-C4D-C3D	-2.14	124.61	129.46
31	VP	1001	CYC	CAB-C3B-C2B	2.14	131.19	127.53
29	OF	201	PEB	CAB-CBB-CGB	-2.14	109.00	113.60
29	OI	201	PEB	CAB-CBB-CGB	-2.14	109.00	113.60
29	C5	203	PEB	CHA-C1B-NB	-2.14	120.46	124.93
29	C8	203	PEB	CHA-C1B-NB	-2.14	120.46	124.93
31	D1	1003	CYC	CMB-C2B-C1B	2.14	126.84	124.17
29	LF	1002	PEB	CBD-CAD-C3D	-2.14	116.98	127.62
29	NF	1002	PEB	CBD-CAD-C3D	-2.14	116.98	127.62
29	LI	1002	PEB	CBD-CAD-C3D	-2.14	116.98	127.62
29	NI	1002	PEB	CBD-CAD-C3D	-2.14	116.98	127.62
29	G8	201	PEB	C1C-CHB-C4B	-2.14	126.25	128.81
29	OF	201	PEB	C4B-NB-C1B	-2.14	102.48	106.51
29	OI	201	PEB	C4B-NB-C1B	-2.14	102.48	106.51
29	HC	201	PEB	CAC-CBC-CGC	-2.14	107.77	113.76
29	HE	201	PEB	CAC-CBC-CGC	-2.14	107.77	113.76
29	fF	201	PEB	C4B-NB-C1B	-2.14	102.48	106.51
29	fI	201	PEB	C4B-NB-C1B	-2.14	102.48	106.51
29	HD	201	PEB	CHA-C1B-C2B	2.14	130.40	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	SR	202	PEB	CAA-C3A-C4A	2.14	118.16	112.67
29	b7	201	PEB	CAB-C3B-C4B	2.14	128.79	125.01
29	b9	201	PEB	CAB-C3B-C4B	2.14	128.79	125.01
31	D7	1001	CYC	CHB-C1B-NB	-2.14	121.47	126.06
31	D9	1001	CYC	CHB-C1B-NB	-2.14	121.47	126.06
29	FC	201	PEB	CMB-C2B-C1B	2.14	128.35	125.06
29	FE	201	PEB	CMB-C2B-C1B	2.14	128.35	125.06
29	m7	203	PEB	C1B-C2B-C3B	-2.14	104.06	106.51
29	m9	203	PEB	C1B-C2B-C3B	-2.14	104.06	106.51
29	fF	201	PEB	CAB-CBB-CGB	-2.14	109.01	113.60
29	fI	201	PEB	CAB-CBB-CGB	-2.14	109.01	113.60
29	jB	202	PEB	OD-C4D-ND	-2.14	122.77	125.93
29	jM	202	PEB	OD-C4D-ND	-2.14	122.77	125.93
29	OR	202	PEB	CBC-CAC-C2C	-2.14	108.97	112.62
29	DC	201	PEB	CAC-CBC-CGC	-2.14	107.77	113.76
29	DE	201	PEB	CAC-CBC-CGC	-2.14	107.77	113.76
29	L8	201	PEB	CAB-C3B-C4B	2.14	128.79	125.01
29	LD	201	PEB	CHA-C1B-C2B	2.14	130.39	124.90
29	F7	1002	PEB	CAA-C3A-C4A	-2.14	107.19	112.67
31	J7	1001	CYC	CHB-C1B-NB	-2.14	121.47	126.06
31	L7	1001	CYC	CHB-C1B-NB	-2.14	121.47	126.06
29	DB	203	PEB	OD-C4D-C3D	-2.14	124.62	129.46
29	DM	203	PEB	OD-C4D-C3D	-2.14	124.62	129.46
29	IG	201	PEB	CHA-C1B-NB	-2.13	120.47	124.93
29	IQ	201	PEB	CHA-C1B-NB	-2.13	120.47	124.93
29	LA	201	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	LN	201	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	BQ	203	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	CC	201	PEB	CHC-C4C-C3C	-2.13	126.70	130.34
29	CE	201	PEB	CHC-C4C-C3C	-2.13	126.70	130.34
29	FF	1002	PEB	CMC-C3C-C2C	-2.13	120.92	124.94
29	FI	1002	PEB	CMC-C3C-C2C	-2.13	120.92	124.94
29	WF	201	PEB	CAB-CBB-CGB	-2.13	109.01	113.60
29	WI	201	PEB	CAB-CBB-CGB	-2.13	109.01	113.60
29	hF	201	PEB	CHB-C4B-NB	-2.13	125.87	128.83
29	hI	201	PEB	CHB-C4B-NB	-2.13	125.87	128.83
31	GP	1001	CYC	C1A-C2A-C3A	-2.13	104.42	106.78
29	K4	201	PEB	CHB-C4B-C3B	-2.13	120.39	125.32
29	A5	203	PEB	CHA-C1B-NB	-2.13	120.47	124.93
29	I8	203	PEB	CHA-C1B-NB	-2.13	120.47	124.93
29	A8	203	PEB	CHA-C1B-NB	-2.13	120.47	124.93
29	BC	201	PEB	CAC-CBC-CGC	-2.13	107.78	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BE	201	PEB	CAC-CBC-CGC	-2.13	107.78	113.76
29	Q2	202	PEB	CAA-C3A-C4A	2.13	118.15	112.67
29	WR	202	PEB	CAA-C3A-C4A	2.13	118.15	112.67
29	HA	201	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	HN	201	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	WF	202	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	WI	202	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	k7	203	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	k9	203	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	Q7	201	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	Q9	201	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	dF	203	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	dI	203	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	HF	1002	PEB	CBD-CAD-C3D	-2.13	117.01	127.62
29	HI	1002	PEB	CBD-CAD-C3D	-2.13	117.01	127.62
29	bF	201	PEB	CAB-CBB-CGB	-2.13	109.01	113.60
29	bI	201	PEB	CAB-CBB-CGB	-2.13	109.01	113.60
29	JC	201	PEB	CAC-CBC-CGC	-2.13	107.78	113.76
29	JE	201	PEB	CAC-CBC-CGC	-2.13	107.78	113.76
29	JB	203	PEB	OD-C4D-C3D	-2.13	124.63	129.46
29	LB	203	PEB	OD-C4D-C3D	-2.13	124.63	129.46
29	JM	203	PEB	OD-C4D-C3D	-2.13	124.63	129.46
29	LM	203	PEB	OD-C4D-C3D	-2.13	124.63	129.46
29	JF	1002	PEB	CBD-CAD-C3D	-2.13	117.02	127.62
29	JI	1002	PEB	CBD-CAD-C3D	-2.13	117.02	127.62
29	YB	203	PEB	OD-C4D-ND	-2.13	122.77	125.93
29	YM	203	PEB	OD-C4D-ND	-2.13	122.77	125.93
29	lF	201	PEB	C4B-NB-C1B	-2.13	102.50	106.51
29	II	201	PEB	C4B-NB-C1B	-2.13	102.50	106.51
29	H4	201	PEB	CHA-C1B-C2B	2.13	130.38	124.90
29	X2	201	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	MG	405	PEB	CHA-C1B-C2B	2.13	130.38	124.90
31	K1	1001	CYC	CMB-C2B-C1B	2.13	126.83	124.17
31	KK	1001	CYC	CMB-C2B-C1B	2.13	126.83	124.17
31	L9	1001	CYC	CHB-C1B-NB	-2.13	121.48	126.06
29	dJ	203	PEB	CHA-C1B-NB	-2.13	120.48	124.93
29	dL	203	PEB	CHA-C1B-NB	-2.13	120.48	124.93
29	T2	202	PEB	CAB-C3B-C4B	2.13	128.78	125.01
29	KD	201	PEB	CHB-C4B-C3B	-2.13	120.40	125.32
29	FD	201	PEB	CHA-C1B-C2B	2.13	130.38	124.90
29	M2	202	PEB	CAA-C3A-C4A	2.13	118.14	112.67
29	GD	201	PEB	CHB-C4B-C3B	-2.13	120.40	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	JA	202	PEB	C2B-C1B-NB	2.13	115.07	110.53
29	JN	202	PEB	C2B-C1B-NB	2.13	115.07	110.53
29	HC	201	PEB	CMB-C2B-C1B	2.13	128.34	125.06
29	HE	201	PEB	CMB-C2B-C1B	2.13	128.34	125.06
29	G4	201	PEB	CHB-C4B-C3B	-2.13	120.40	125.32
29	R7	203	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	R9	203	PEB	C1B-C2B-C3B	-2.13	104.06	106.51
29	PJ	203	PEB	CHA-C1B-NB	-2.13	120.48	124.93
29	PL	203	PEB	CHA-C1B-NB	-2.13	120.48	124.93
29	LA	201	PEB	C4B-NB-C1B	-2.13	102.50	106.51
29	LN	201	PEB	C4B-NB-C1B	-2.13	102.50	106.51
29	LC	201	PEB	CAC-CBC-CGC	-2.13	107.79	113.76
29	LE	201	PEB	CAC-CBC-CGC	-2.13	107.79	113.76
29	S7	201	PEB	CAB-C3B-C4B	2.13	128.77	125.01
29	S9	201	PEB	CAB-C3B-C4B	2.13	128.77	125.01
29	iB	203	PEB	OD-C4D-C3D	-2.13	124.64	129.46
29	iM	203	PEB	OD-C4D-C3D	-2.13	124.64	129.46
29	kF	203	PEB	CAC-CBC-CGC	-2.13	107.79	113.76
29	kI	203	PEB	CAC-CBC-CGC	-2.13	107.79	113.76
29	KD	202	PEB	CMD-C2D-C3D	2.13	133.06	130.06
29	JD	201	PEB	CHA-C1B-C2B	2.13	130.37	124.90
29	UF	202	PEB	CAB-CBB-CGB	-2.13	109.02	113.60
29	UI	202	PEB	CAB-CBB-CGB	-2.13	109.02	113.60
29	HB	203	PEB	OD-C4D-C3D	-2.13	124.64	129.46
29	HM	203	PEB	OD-C4D-C3D	-2.13	124.64	129.46
29	ZF	201	PEB	CAB-CBB-CGB	-2.13	109.03	113.60
29	ZI	201	PEB	CAB-CBB-CGB	-2.13	109.03	113.60
29	SB	202	PEB	OD-C4D-ND	-2.13	122.78	125.93
29	SM	202	PEB	OD-C4D-ND	-2.13	122.78	125.93
30	yJ	303	PUB	CAC-C2C-C1C	2.13	128.77	125.01
29	P7	203	PEB	C1B-C2B-C3B	-2.13	104.07	106.51
29	P9	203	PEB	C1B-C2B-C3B	-2.13	104.07	106.51
29	TJ	201	PEB	CAB-C3B-C4B	2.13	128.77	125.01
29	TL	201	PEB	CAB-C3B-C4B	2.13	128.77	125.01
29	jF	201	PEB	CAB-CBB-CGB	-2.13	109.03	113.60
29	jI	201	PEB	CAB-CBB-CGB	-2.13	109.03	113.60
29	MN	401	PEB	OD-C4D-C3D	-2.13	124.64	129.46
29	WB	202	PEB	OD-C4D-ND	-2.13	122.78	125.93
29	WM	202	PEB	OD-C4D-ND	-2.13	122.78	125.93
31	H7	1001	CYC	CHB-C1B-NB	-2.13	121.50	126.06
31	H9	1001	CYC	CHB-C1B-NB	-2.13	121.50	126.06
29	QF	201	PEB	C4B-NB-C1B	-2.13	102.51	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QI	201	PEB	C4B-NB-C1B	-2.13	102.51	106.51
29	DO	202	PEB	CHA-C1B-NB	-2.13	120.49	124.93
29	PB	202	PEB	OD-C4D-C3D	-2.13	124.65	129.46
29	PM	202	PEB	OD-C4D-C3D	-2.13	124.65	129.46
29	ZJ	203	PEB	CHA-C1B-NB	-2.12	120.49	124.93
29	ZL	203	PEB	CHA-C1B-NB	-2.12	120.49	124.93
29	JF	1002	PEB	CMC-C3C-C2C	-2.12	120.94	124.94
29	JI	1002	PEB	CMC-C3C-C2C	-2.12	120.94	124.94
29	j7	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	j9	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	ZJ	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	ZL	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	jF	201	PEB	C4B-NB-C1B	-2.12	102.51	106.51
29	jI	201	PEB	C4B-NB-C1B	-2.12	102.51	106.51
31	vP	1001	CYC	C2A-C1A-NA	2.12	113.14	110.05
29	J4	201	PEB	CHA-C1B-C2B	2.12	130.36	124.90
29	RB	203	PEB	OD-C4D-C3D	-2.12	124.65	129.46
29	RM	203	PEB	OD-C4D-C3D	-2.12	124.65	129.46
29	FC	201	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
29	FE	201	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
29	eB	202	PEB	OD-C4D-C3D	-2.12	124.65	129.46
29	eM	202	PEB	OD-C4D-C3D	-2.12	124.65	129.46
29	KB	202	PEB	OD-C4D-ND	-2.12	122.79	125.93
29	KM	202	PEB	OD-C4D-ND	-2.12	122.79	125.93
29	IJ	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	IL	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	cF	202	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
29	cI	202	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
31	pP	1001	CYC	C1A-C2A-C3A	-2.12	104.44	106.78
29	BA	201	PEB	C1B-C2B-C3B	-2.12	104.07	106.51
29	BN	201	PEB	C1B-C2B-C3B	-2.12	104.07	106.51
29	JA	201	PEB	C4B-NB-C1B	-2.12	102.51	106.51
29	JN	201	PEB	C4B-NB-C1B	-2.12	102.51	106.51
29	IJ	202	PEB	CMB-C2B-C1B	2.12	128.33	125.06
29	IL	202	PEB	CMB-C2B-C1B	2.12	128.33	125.06
29	EB	202	PEB	OD-C4D-ND	-2.12	122.79	125.93
29	EM	202	PEB	OD-C4D-ND	-2.12	122.79	125.93
29	UF	202	PEB	C4B-NB-C1B	-2.12	102.51	106.51
29	UI	202	PEB	C4B-NB-C1B	-2.12	102.51	106.51
29	TF	202	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
29	TI	202	PEB	CAC-CBC-CGC	-2.12	107.81	113.76
29	Z7	202	PEB	C2B-C1B-NB	2.12	115.06	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z9	202	PEB	C2B-C1B-NB	2.12	115.06	110.53
29	O7	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	O9	201	PEB	CAB-C3B-C4B	2.12	128.76	125.01
31	mP	1001	CYC	C2A-C1A-NA	2.12	113.13	110.05
29	B4	201	PEB	CHA-C1B-C2B	2.12	130.35	124.90
29	lF	202	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	lI	202	PEB	CAB-C3B-C4B	2.12	128.76	125.01
29	iF	203	PEB	CAC-CBC-CGC	-2.12	107.82	113.76
29	iI	203	PEB	CAC-CBC-CGC	-2.12	107.82	113.76
29	bF	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	jF	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	bI	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	jI	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	dF	202	PEB	CAB-CBB-CGB	-2.12	109.04	113.60
29	dI	202	PEB	CAB-CBB-CGB	-2.12	109.04	113.60
29	FJ	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	FL	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	IJ	203	PEB	CMB-C2B-C1B	2.12	128.33	125.06
29	IL	203	PEB	CMB-C2B-C1B	2.12	128.33	125.06
29	MA	401	PEB	OD-C4D-C3D	-2.12	124.66	129.46
29	VB	203	PEB	OD-C4D-C3D	-2.12	124.66	129.46
29	VM	203	PEB	OD-C4D-C3D	-2.12	124.66	129.46
29	RJ	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	RL	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	AC	201	PEB	CHC-C4C-C3C	-2.12	126.72	130.34
29	AE	201	PEB	CHC-C4C-C3C	-2.12	126.72	130.34
29	FA	202	PEB	C2B-C1B-NB	2.12	115.05	110.53
29	FN	202	PEB	C2B-C1B-NB	2.12	115.05	110.53
29	N2	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	l7	201	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	l9	201	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	DF	1002	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	DI	1002	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	NR	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	JA	202	PEB	CHA-C4A-NA	-2.12	122.69	125.20
29	JN	202	PEB	CHA-C4A-NA	-2.12	122.69	125.20
29	ZF	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	ZI	201	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	eJ	201	PEB	CHC-C1D-ND	-2.12	111.49	113.95
29	eL	201	PEB	CHC-C1D-ND	-2.12	111.49	113.95
29	JJ	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93
29	JL	203	PEB	CHA-C1B-NB	-2.12	120.50	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	hF	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	hI	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	MQ	407	PEB	CHA-C1B-C2B	2.12	130.34	124.90
29	DA	201	PEB	C1B-C2B-C3B	-2.12	104.08	106.51
29	DN	201	PEB	C1B-C2B-C3B	-2.12	104.08	106.51
29	HF	1002	PEB	CMC-C3C-C2C	-2.12	120.95	124.94
29	HI	1002	PEB	CMC-C3C-C2C	-2.12	120.95	124.94
29	mF	203	PEB	CAC-CBC-CGC	-2.12	107.83	113.76
29	mI	203	PEB	CAC-CBC-CGC	-2.12	107.83	113.76
29	RR	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	lB	202	PEB	OD-C4D-ND	-2.12	122.80	125.93
29	lM	202	PEB	OD-C4D-ND	-2.12	122.80	125.93
29	UF	202	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	UI	202	PEB	CHB-C4B-NB	-2.12	125.89	128.83
29	i7	203	PEB	C1B-C2B-C3B	-2.12	104.08	106.51
29	i9	203	PEB	C1B-C2B-C3B	-2.12	104.08	106.51
29	TF	201	PEB	C1C-CHB-C4B	-2.12	126.28	128.81
29	R2	202	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	HK	1002	PEB	CAB-C3B-C4B	2.12	128.75	125.01
29	VF	203	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	VI	203	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	DJ	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	DL	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	xL	302	PEB	CHA-C1B-C2B	2.11	130.34	124.90
29	bJ	203	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	rJ	203	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	vJ	202	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	bL	203	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	rL	203	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	vL	202	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	PJ	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	tJ	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	PL	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	tL	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	aF	203	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	aI	203	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	rJ	202	PEB	CMB-C2B-C1B	2.11	128.32	125.06
29	rL	202	PEB	CMB-C2B-C1B	2.11	128.32	125.06
29	D3	202	PEB	CHA-C1B-NB	-2.11	120.51	124.93
29	d7	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	d9	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	lJ	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	IL	201	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	DA	202	PEB	C2B-C1B-NB	2.11	115.04	110.53
29	DN	202	PEB	C2B-C1B-NB	2.11	115.04	110.53
29	RF	202	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	RI	202	PEB	CAC-CBC-CGC	-2.11	107.83	113.76
29	CB	202	PEB	OD-C4D-ND	-2.11	122.80	125.93
29	CM	202	PEB	OD-C4D-ND	-2.11	122.80	125.93
29	gB	202	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	gM	202	PEB	CAB-C3B-C4B	2.11	128.75	125.01
29	F4	201	PEB	CHA-C1B-C2B	2.11	130.33	124.90
29	M4	203	PEB	CMB-C2B-C1B	2.11	128.32	125.06
29	ZF	201	PEB	C2A-C1A-NA	2.11	110.09	108.27
29	ZI	201	PEB	C2A-C1A-NA	2.11	110.09	108.27
29	TJ	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	TL	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	HA	202	PEB	C2B-C1B-NB	2.11	115.04	110.53
29	HN	202	PEB	C2B-C1B-NB	2.11	115.04	110.53
29	hJ	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	hL	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	kJ	201	PEB	CHC-C1D-ND	-2.11	111.50	113.95
29	kL	201	PEB	CHC-C1D-ND	-2.11	111.50	113.95
29	XJ	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	XL	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	JB	202	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	JM	202	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	QF	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	QI	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	HJ	201	PEB	CMB-C2B-C1B	2.11	128.31	125.06
29	HL	201	PEB	CMB-C2B-C1B	2.11	128.31	125.06
29	NF	1002	PEB	CMC-C3C-C2C	-2.11	120.96	124.94
29	NI	1002	PEB	CMC-C3C-C2C	-2.11	120.96	124.94
29	eF	203	PEB	CAC-CBC-CGC	-2.11	107.84	113.76
29	eI	203	PEB	CAC-CBC-CGC	-2.11	107.84	113.76
29	nJ	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	nL	203	PEB	CHA-C1B-NB	-2.11	120.52	124.93
29	BA	202	PEB	CHA-C4A-NA	-2.11	122.70	125.20
29	BN	202	PEB	CHA-C4A-NA	-2.11	122.70	125.20
29	DQ	203	PEB	C1B-C2B-C3B	-2.11	104.08	106.51
29	T7	203	PEB	C1B-C2B-C3B	-2.11	104.09	106.51
29	T9	203	PEB	C1B-C2B-C3B	-2.11	104.09	106.51
29	IB	202	PEB	OD-C4D-ND	-2.11	122.81	125.93
29	IM	202	PEB	OD-C4D-ND	-2.11	122.81	125.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	S7	202	PEB	C2B-C1B-NB	2.11	115.03	110.53
29	S9	202	PEB	C2B-C1B-NB	2.11	115.03	110.53
29	bJ	202	PEB	CMB-C2B-C1B	2.11	128.31	125.06
29	bL	202	PEB	CMB-C2B-C1B	2.11	128.31	125.06
29	e7	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	e9	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	ZF	201	PEB	C4B-NB-C1B	-2.11	102.54	106.51
29	ZI	201	PEB	C4B-NB-C1B	-2.11	102.54	106.51
29	kB	202	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	kM	202	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	fF	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	fI	201	PEB	CHB-C4B-NB	-2.11	125.90	128.83
29	CD	202	PEB	CAC-CBC-CGC	-2.11	107.85	113.76
29	E4	202	PEB	CAC-CBC-CGC	-2.11	107.85	113.76
29	LA	202	PEB	CHA-C4A-NA	-2.11	122.70	125.20
29	LN	202	PEB	CHA-C4A-NA	-2.11	122.70	125.20
29	YB	201	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	YM	201	PEB	CAB-C3B-C4B	2.11	128.74	125.01
29	Y1	201	PEB	C4B-NB-C1B	-2.11	102.54	106.51
29	YK	201	PEB	C4B-NB-C1B	-2.11	102.54	106.51
29	bF	201	PEB	C2A-C1A-NA	2.11	110.09	108.27
29	bI	201	PEB	C2A-C1A-NA	2.11	110.09	108.27
29	G5	202	PEB	CHA-C1B-NB	-2.11	120.53	124.93
29	V2	202	PEB	CAC-CBC-CGC	-2.11	107.85	113.76
29	HC	202	PEB	C1C-CHB-C4B	2.11	131.32	128.81
29	HE	202	PEB	C1C-CHB-C4B	2.11	131.32	128.81
29	jJ	201	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	jL	201	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	ZB	203	PEB	OD-C4D-C3D	-2.11	124.69	129.46
29	ZM	203	PEB	OD-C4D-C3D	-2.11	124.69	129.46
29	JJ	201	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	JL	201	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	tJ	202	PEB	CHA-C1B-NB	-2.11	120.53	124.93
29	tL	202	PEB	CHA-C1B-NB	-2.11	120.53	124.93
29	f7	202	PEB	C2B-C1B-NB	2.11	115.02	110.53
29	f9	202	PEB	C2B-C1B-NB	2.11	115.02	110.53
29	UF	203	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	UI	203	PEB	CAB-C3B-C4B	2.11	128.73	125.01
29	h7	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	h9	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	PF	203	PEB	CAC-CBC-CGC	-2.10	107.86	113.76
29	PI	203	PEB	CAC-CBC-CGC	-2.10	107.86	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	bF	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	bI	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	b7	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	b9	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	NJ	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	NL	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	aB	202	PEB	OD-C4D-ND	-2.10	122.81	125.93
29	aM	202	PEB	OD-C4D-ND	-2.10	122.81	125.93
29	f7	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	f9	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	cB	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	iB	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	cM	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	iM	202	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	VJ	202	PEB	CHA-C1B-NB	-2.10	120.53	124.93
29	VL	202	PEB	CHA-C1B-NB	-2.10	120.53	124.93
29	QF	201	PEB	C2A-C1A-NA	2.10	110.09	108.27
29	QI	201	PEB	C2A-C1A-NA	2.10	110.09	108.27
29	dB	202	PEB	OD-C4D-ND	-2.10	122.81	125.93
29	dM	202	PEB	OD-C4D-ND	-2.10	122.81	125.93
29	ED	201	PEB	CAC-CBC-CGC	-2.10	107.86	113.76
29	RR	202	PEB	CHA-C4A-NA	2.10	127.70	125.20
29	ZJ	202	PEB	CMB-C2B-C1B	2.10	128.30	125.06
29	ZL	202	PEB	CMB-C2B-C1B	2.10	128.30	125.06
29	W7	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	W9	202	PEB	C2B-C1B-NB	2.10	115.02	110.53
29	a7	203	PEB	CBC-CAC-C2C	-2.10	109.03	112.62
29	a9	203	PEB	CBC-CAC-C2C	-2.10	109.03	112.62
29	EC	201	PEB	CHC-C4C-C3C	-2.10	126.75	130.34
29	EE	201	PEB	CHC-C4C-C3C	-2.10	126.75	130.34
29	vJ	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	vL	201	PEB	CAB-C3B-C4B	2.10	128.73	125.01
29	BJ	203	PEB	CHA-C1B-NB	-2.10	120.54	124.93
29	BL	203	PEB	CHA-C1B-NB	-2.10	120.54	124.93
29	AC	203	PEB	C1C-CHB-C4B	2.10	131.32	128.81
29	AE	203	PEB	C1C-CHB-C4B	2.10	131.32	128.81
29	k7	203	PEB	CBC-CAC-C2C	-2.10	109.03	112.62
29	k9	203	PEB	CBC-CAC-C2C	-2.10	109.03	112.62
29	DA	202	PEB	CHA-C4A-NA	-2.10	122.71	125.20
29	DN	202	PEB	CHA-C4A-NA	-2.10	122.71	125.20
29	k7	201	PEB	CHB-C4B-NB	-2.10	125.91	128.83
29	k9	201	PEB	CHB-C4B-NB	-2.10	125.91	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	GB	202	PEB	OD-C4D-ND	-2.10	122.82	125.93
29	GM	202	PEB	OD-C4D-ND	-2.10	122.82	125.93
29	g1	201	PEB	C4B-NB-C1B	-2.10	102.55	106.51
29	gK	201	PEB	C4B-NB-C1B	-2.10	102.55	106.51
29	I4	202	PEB	CAC-CBC-CGC	-2.10	107.87	113.76
29	fF	202	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	fI	202	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	HA	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	fF	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	fI	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	HN	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	LA	202	PEB	C2B-C1B-NB	2.10	115.01	110.53
29	LN	202	PEB	C2B-C1B-NB	2.10	115.01	110.53
29	KD	202	PEB	CAC-CBC-CGC	-2.10	107.87	113.76
29	GC	201	PEB	CHC-C4C-C3C	-2.10	126.75	130.34
29	GE	201	PEB	CHC-C4C-C3C	-2.10	126.75	130.34
29	DJ	202	PEB	CHA-C1B-NB	-2.10	120.54	124.93
29	DL	202	PEB	CHA-C1B-NB	-2.10	120.54	124.93
29	X2	201	PEB	CAC-CBC-CGC	-2.10	107.87	113.76
29	c7	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	c9	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	qJ	201	PEB	CHC-C1D-ND	-2.10	111.51	113.95
29	qL	201	PEB	CHC-C1D-ND	-2.10	111.51	113.95
29	BA	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	hF	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	hI	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	BN	201	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	Y7	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	Y9	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	R7	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	R9	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	sJ	203	PEB	CMB-C2B-C1B	2.10	128.29	125.06
29	sL	203	PEB	CMB-C2B-C1B	2.10	128.29	125.06
31	rP	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
29	U7	201	PEB	CAB-CBB-CGB	-2.10	109.09	113.60
29	b7	201	PEB	CAB-CBB-CGB	-2.10	109.09	113.60
29	U9	201	PEB	CAB-CBB-CGB	-2.10	109.09	113.60
29	b9	201	PEB	CAB-CBB-CGB	-2.10	109.09	113.60
29	YF	203	PEB	CAC-CBC-CGC	-2.10	107.88	113.76
29	YI	203	PEB	CAC-CBC-CGC	-2.10	107.88	113.76
29	e7	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	e9	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	fJ	201	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	fL	201	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	R2	202	PEB	CHA-C4A-NA	2.10	127.70	125.20
29	pJ	202	PEB	CMB-C2B-C1B	2.10	128.29	125.06
29	pL	202	PEB	CMB-C2B-C1B	2.10	128.29	125.06
29	jJ	203	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	pJ	203	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	jL	203	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	pL	203	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	UF	202	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	UI	202	PEB	C2A-C1A-NA	2.10	110.08	108.27
29	KJ	201	PEB	CHC-C1D-ND	-2.10	111.51	113.95
29	KL	201	PEB	CHC-C1D-ND	-2.10	111.51	113.95
29	LJ	202	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	LL	202	PEB	CHA-C1B-NB	-2.10	120.55	124.93
29	QB	204	PEB	OD-C4D-ND	-2.10	122.82	125.93
29	QM	204	PEB	OD-C4D-ND	-2.10	122.82	125.93
31	CP	1001	CYC	C2A-C1A-NA	2.10	113.10	110.05
29	gF	203	PEB	CAC-CBC-CGC	-2.10	107.88	113.76
29	gI	203	PEB	CAC-CBC-CGC	-2.10	107.88	113.76
29	VJ	201	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	VL	201	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	c7	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	c9	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	g7	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	g9	201	PEB	CHB-C4B-NB	-2.10	125.92	128.83
29	ZF	202	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	ZI	202	PEB	CAB-C3B-C4B	2.10	128.72	125.01
29	KC	202	PEB	CHC-C4C-C3C	-2.10	126.76	130.34
29	KE	202	PEB	CHC-C4C-C3C	-2.10	126.76	130.34
29	C4	202	PEB	CAC-CBC-CGC	-2.10	107.88	113.76
29	d7	202	PEB	C2B-C1B-NB	2.10	115.00	110.53
29	d9	202	PEB	C2B-C1B-NB	2.10	115.00	110.53
29	i7	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	i9	203	PEB	CBC-CAC-C2C	-2.10	109.04	112.62
29	wJ	302	PEB	CHA-C1B-C2B	2.10	130.29	124.90
29	hJ	201	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	hL	201	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	Z7	201	PEB	CAB-CBB-CGB	-2.09	109.09	113.60
29	Z9	201	PEB	CAB-CBB-CGB	-2.09	109.09	113.60
29	BA	202	PEB	C2B-C1B-NB	2.09	115.00	110.53
29	BN	202	PEB	C2B-C1B-NB	2.09	115.00	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	m7	201	PEB	CHB-C4B-NB	-2.09	125.92	128.83
29	m9	201	PEB	CHB-C4B-NB	-2.09	125.92	128.83
29	OF	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	OI	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	RJ	201	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	RL	201	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	OB	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	OM	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	WF	201	PEB	C2A-C1A-NA	2.09	110.08	108.27
29	WI	201	PEB	C2A-C1A-NA	2.09	110.08	108.27
29	KB	203	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	ZB	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	KM	203	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	ZM	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	xJ	302	PEB	CHA-C1B-C2B	2.09	130.28	124.90
29	FA	201	PEB	C1B-C2B-C3B	-2.09	104.10	106.51
29	FN	201	PEB	C1B-C2B-C3B	-2.09	104.10	106.51
29	DD	202	PEB	CHA-C1B-NB	-2.09	120.55	124.93
29	fB	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	hB	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	KC	203	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	KE	203	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	fM	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	hM	202	PEB	OD-C4D-ND	-2.09	122.83	125.93
29	S7	201	PEB	CAB-CBB-CGB	-2.09	109.10	113.60
29	S9	201	PEB	CAB-CBB-CGB	-2.09	109.10	113.60
29	wL	302	PEB	CHA-C1B-C2B	2.09	130.28	124.90
29	HB	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	aB	203	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	HM	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	aM	203	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	IC	201	PEB	CHC-C4C-C3C	-2.09	126.77	130.34
29	IE	201	PEB	CHC-C4C-C3C	-2.09	126.77	130.34
29	KC	201	PEB	C1C-CHB-C4B	2.09	131.31	128.81
29	KE	201	PEB	C1C-CHB-C4B	2.09	131.31	128.81
29	SF	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
29	SI	202	PEB	CAB-C3B-C4B	2.09	128.71	125.01
31	kP	1001	CYC	C1B-CHB-C4A	2.09	133.19	128.08
29	HJ	202	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	HL	202	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	M4	202	PEB	CAC-CBC-CGC	-2.09	107.90	113.76
29	G8	202	PEB	CHA-C1B-NB	-2.09	120.56	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	NJ	203	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	NL	203	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	P1	201	PEB	C4B-NB-C1B	-2.09	102.57	106.51
29	PK	201	PEB	C4B-NB-C1B	-2.09	102.57	106.51
29	U7	202	PEB	C2B-C1B-NB	2.09	114.99	110.53
29	U9	202	PEB	C2B-C1B-NB	2.09	114.99	110.53
29	HF	1002	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	QF	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	HI	1002	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	QI	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	BJ	201	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	BL	201	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	XR	202	PEB	CHA-C4A-NA	2.09	127.69	125.20
31	eP	1001	CYC	C2A-C1A-NA	2.09	113.09	110.05
29	c1	201	PEB	C4B-NB-C1B	-2.09	102.57	106.51
29	cK	201	PEB	C4B-NB-C1B	-2.09	102.57	106.51
29	FA	201	PEB	CBB-CAB-C3B	2.09	118.43	112.63
29	FN	201	PEB	CBB-CAB-C3B	2.09	118.43	112.63
30	A1	305	PUB	CMA-C2A-C3A	2.09	133.96	129.67
30	AK	305	PUB	CMA-C2A-C3A	2.09	133.96	129.67
29	fJ	203	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	fL	203	PEB	CHA-C1B-NB	-2.09	120.56	124.93
29	ID	202	PEB	CAC-CBC-CGC	-2.09	107.90	113.76
29	Y7	203	PEB	C1B-C2B-C3B	-2.09	104.11	106.51
29	Y9	203	PEB	C1B-C2B-C3B	-2.09	104.11	106.51
29	CJ	201	PEB	CHC-C1D-ND	-2.09	111.52	113.95
29	CL	201	PEB	CHC-C1D-ND	-2.09	111.52	113.95
30	A1	305	PUB	OA-C1A-C2A	-2.09	118.99	128.48
30	AK	305	PUB	OA-C1A-C2A	-2.09	118.99	128.48
29	RB	203	PEB	CAB-CBB-CGB	2.09	118.10	113.60
29	RM	203	PEB	CAB-CBB-CGB	2.09	118.10	113.60
31	uP	1001	CYC	C1B-CHB-C4A	2.09	133.18	128.08
29	H5	202	PEB	CHA-C1B-NB	-2.09	120.56	124.93
31	yP	1001	CYC	CHA-C1A-NA	-2.09	125.93	128.83
31	HP	1001	CYC	C1B-CHB-C4A	2.09	133.18	128.08
29	P7	203	PEB	CBC-CAC-C2C	-2.09	109.06	112.62
29	P9	203	PEB	CBC-CAC-C2C	-2.09	109.06	112.62
29	JF	1002	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	JI	1002	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	CG	201	PEB	CHB-C4B-C3B	-2.09	120.50	125.32
29	CQ	201	PEB	CHB-C4B-C3B	-2.09	120.50	125.32
29	GD	202	PEB	CAC-CBC-CGC	-2.09	107.91	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L4	202	PEB	CHA-C1B-NB	-2.09	120.57	124.93
29	HA	201	PEB	CBB-CAB-C3B	2.09	118.43	112.63
29	HN	201	PEB	CBB-CAB-C3B	2.09	118.43	112.63
31	MP	1001	CYC	C1B-CHB-C4A	2.09	133.18	128.08
29	G4	202	PEB	CAC-CBC-CGC	-2.09	107.91	113.76
29	AF	305	PEB	CMC-C3C-C2C	2.09	128.88	124.94
29	AI	305	PEB	CMC-C3C-C2C	2.09	128.88	124.94
30	BB	302	PUB	CBA-CAA-C3A	-2.09	109.81	112.98
30	BM	302	PUB	CBA-CAA-C3A	-2.09	109.81	112.98
29	g7	203	PEB	CBC-CAC-C2C	-2.09	109.06	112.62
29	g9	203	PEB	CBC-CAC-C2C	-2.09	109.06	112.62
29	Y7	201	PEB	CHB-C4B-NB	-2.09	125.93	128.83
29	Y9	201	PEB	CHB-C4B-NB	-2.09	125.93	128.83
29	D4	202	PEB	CHA-C1B-NB	-2.09	120.57	124.93
29	V7	203	PEB	C1B-C2B-C3B	-2.09	104.11	106.51
29	V9	203	PEB	C1B-C2B-C3B	-2.09	104.11	106.51
29	RB	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	wL	302	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	RM	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	sJ	201	PEB	CHC-C1D-ND	-2.09	111.53	113.95
29	sL	201	PEB	CHC-C1D-ND	-2.09	111.53	113.95
29	N2	202	PEB	CAC-CBC-CGC	-2.09	107.91	113.76
31	OP	1001	CYC	C1B-CHB-C4A	2.09	133.18	128.08
29	UB	202	PEB	OD-C4D-ND	-2.09	122.84	125.93
29	MQ	401	PEB	OD-C4D-ND	-2.09	122.84	125.93
29	FB	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	dJ	201	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	dL	201	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	FM	202	PEB	CAB-C3B-C4B	2.09	128.70	125.01
29	cF	202	PEB	CAB-CBB-CGB	-2.09	109.12	113.60
29	cI	202	PEB	CAB-CBB-CGB	-2.09	109.12	113.60
29	X2	201	PEB	CHA-C4A-NA	2.08	127.68	125.20
31	SP	1001	CYC	C1B-CHB-C4A	2.08	133.17	128.08
29	Q7	201	PEB	CAB-CBB-CGB	-2.08	109.12	113.60
29	Q9	201	PEB	CAB-CBB-CGB	-2.08	109.12	113.60
29	VR	202	PEB	CAC-CBC-CGC	-2.08	107.92	113.76
29	AJ	203	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	BJ	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	PJ	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	AL	203	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	BL	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	PL	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	PP	1001	CYC	C2A-C1A-NA	2.08	113.08	110.05
29	j7	202	PEB	C2B-C1B-NB	2.08	114.98	110.53
29	j9	202	PEB	C2B-C1B-NB	2.08	114.98	110.53
29	TR	202	PEB	CHA-C4A-NA	2.08	127.68	125.20
29	l7	201	PEB	CAB-CBB-CGB	-2.08	109.12	113.60
29	l9	201	PEB	CAB-CBB-CGB	-2.08	109.12	113.60
29	nJ	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	pJ	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	nL	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	pL	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	uJ	202	PEB	CHC-C1D-ND	-2.08	111.53	113.95
29	uL	202	PEB	CHC-C1D-ND	-2.08	111.53	113.95
29	OR	202	PEB	OD-C4D-ND	-2.08	122.84	125.93
29	B5	202	PEB	CHA-C1B-NB	-2.08	120.57	124.93
29	V1	201	PEB	C4B-NB-C1B	-2.08	102.58	106.51
29	VK	201	PEB	C4B-NB-C1B	-2.08	102.58	106.51
29	V7	201	PEB	CHB-C4B-NB	-2.08	125.94	128.83
29	V9	201	PEB	CHB-C4B-NB	-2.08	125.94	128.83
31	RP	1001	CYC	C2A-C1A-NA	2.08	113.08	110.05
29	bJ	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	bL	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	jF	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	lF	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	jI	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	II	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	W1	202	PEB	CHA-C4A-NA	-2.08	122.73	125.20
29	WK	202	PEB	CHA-C4A-NA	-2.08	122.73	125.20
29	XJ	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	XL	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
31	iP	1001	CYC	C2A-C1A-NA	2.08	113.08	110.05
30	MQ	404	PUB	CMD-C2D-C3D	2.08	130.89	127.77
30	AF	303	PUB	C1D-CHC-C4C	-2.08	108.84	113.37
30	AI	303	PUB	C1D-CHC-C4C	-2.08	108.84	113.37
29	LJ	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	wJ	302	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	LL	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	TB	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	TM	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	B8	202	PEB	CHA-C1B-NB	-2.08	120.58	124.93
29	JA	202	PEB	CHA-C1B-NB	-2.08	120.58	124.93
29	JN	202	PEB	CHA-C1B-NB	-2.08	120.58	124.93
29	T2	202	PEB	CAC-CBC-CGC	-2.08	107.92	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	QB	202	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	QM	202	PEB	CAB-C3B-C4B	2.08	128.69	125.01
31	WP	1001	CYC	CHA-C1A-NA	-2.08	125.94	128.83
30	MG	402	PUB	CMD-C2D-C3D	2.08	130.89	127.77
29	EG	201	PEB	CHB-C4B-C3B	-2.08	120.51	125.32
29	EQ	201	PEB	CHB-C4B-C3B	-2.08	120.51	125.32
29	ZB	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	ZM	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	m1	201	PEB	C4B-NB-C1B	-2.08	102.59	106.51
29	mK	201	PEB	C4B-NB-C1B	-2.08	102.59	106.51
29	h7	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	h9	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	TF	202	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	TI	202	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	E4	202	PEB	OA-C1A-C2A	-2.08	124.52	126.17
29	T7	201	PEB	CHB-C4B-NB	-2.08	125.94	128.83
29	T9	201	PEB	CHB-C4B-NB	-2.08	125.94	128.83
29	f1	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	LF	1002	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	LI	1002	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	fK	201	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	k1	201	PEB	C4B-NB-C1B	-2.08	102.59	106.51
29	kK	201	PEB	C4B-NB-C1B	-2.08	102.59	106.51
29	hJ	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	uJ	201	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	hL	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	uL	201	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	OF	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	OI	201	PEB	C2A-C1A-NA	2.08	110.07	108.27
29	LD	202	PEB	CHA-C1B-NB	-2.08	120.58	124.93
29	mB	202	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	NF	1002	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	NI	1002	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	mM	202	PEB	CAB-C3B-C4B	2.08	128.69	125.01
31	cP	1001	CYC	C2A-C1A-NA	2.08	113.07	110.05
29	kB	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	kM	203	PEB	CAB-CBB-CGB	2.08	118.08	113.60
29	f7	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	f9	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	AC	202	PEB	OD-C4D-ND	-2.08	122.85	125.93
29	AE	202	PEB	OD-C4D-ND	-2.08	122.85	125.93
29	nJ	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	nL	202	PEB	CMB-C2B-C1B	2.08	128.27	125.06
29	XR	202	PEB	CAC-CBC-CGC	-2.08	107.93	113.76
29	xL	302	PEB	CAB-C3B-C4B	2.08	128.69	125.01
29	F8	202	PEB	CHA-C1B-NB	-2.08	120.58	124.93
29	O7	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	O9	201	PEB	CAB-CBB-CGB	-2.08	109.13	113.60
29	O7	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
29	O9	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
31	NP	1001	CYC	C2A-C1A-NA	2.08	113.07	110.05
29	NR	202	PEB	CAC-CBC-CGC	-2.08	107.93	113.76
29	FA	201	PEB	O1B-CGB-CBB	-2.08	116.41	123.08
29	FN	201	PEB	O1B-CGB-CBB	-2.08	116.41	123.08
29	DB	203	PEB	CAB-CBB-CGB	2.08	118.07	113.60
29	DM	203	PEB	CAB-CBB-CGB	2.08	118.07	113.60
29	SF	201	PEB	C2A-C1A-NA	2.08	110.06	108.27
29	SI	201	PEB	C2A-C1A-NA	2.08	110.06	108.27
29	KG	201	PEB	CHB-C4B-C3B	-2.08	120.52	125.32
29	KQ	201	PEB	CHB-C4B-C3B	-2.08	120.52	125.32
29	HA	202	PEB	CHA-C1B-NB	-2.08	120.59	124.93
29	HN	202	PEB	CHA-C1B-NB	-2.08	120.59	124.93
31	AP	1001	CYC	C2A-C1A-NA	2.08	113.07	110.05
29	rJ	201	PEB	CAB-C3B-C4B	2.08	128.68	125.01
29	rL	201	PEB	CAB-C3B-C4B	2.08	128.68	125.01
29	HA	202	PEB	CHA-C4A-NA	-2.08	122.74	125.20
29	HN	202	PEB	CHA-C4A-NA	-2.08	122.74	125.20
29	R1	201	PEB	C4B-NB-C1B	-2.08	102.60	106.51
29	RK	201	PEB	C4B-NB-C1B	-2.08	102.60	106.51
29	l7	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
29	l9	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
29	aF	203	PEB	CAB-CBB-CGB	-2.08	109.14	113.60
29	aI	203	PEB	CAB-CBB-CGB	-2.08	109.14	113.60
29	FA	202	PEB	CHA-C1B-NB	-2.08	120.59	124.93
29	FN	202	PEB	CHA-C1B-NB	-2.08	120.59	124.93
29	W7	201	PEB	CAB-CBB-CGB	-2.08	109.14	113.60
29	W9	201	PEB	CAB-CBB-CGB	-2.08	109.14	113.60
29	H1	1002	PEB	CAB-C3B-C4B	2.08	128.68	125.01
29	K4	202	PEB	CAC-CBC-CGC	-2.08	107.94	113.76
29	Q7	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
29	Q9	202	PEB	C2B-C1B-NB	2.08	114.96	110.53
29	HD	202	PEB	CHA-C1B-NB	-2.08	120.59	124.93
29	dJ	202	PEB	CMB-C2B-C1B	2.08	128.26	125.06
29	dL	202	PEB	CMB-C2B-C1B	2.08	128.26	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	P2	201	PEB	CAC-CBC-CGC	-2.08	107.94	113.76
29	MD	202	PEB	CAC-CBC-CGC	-2.07	107.94	113.76
29	TR	202	PEB	CAC-CBC-CGC	-2.07	107.94	113.76
29	RF	202	PEB	CAB-CBB-CGB	-2.07	109.14	113.60
29	RI	202	PEB	CAB-CBB-CGB	-2.07	109.14	113.60
31	IP	1001	CYC	C1B-CHB-C4A	2.07	133.15	128.08
30	AF	302	PUB	CAC-C2C-C3C	2.07	131.74	127.88
30	AI	302	PUB	CAC-C2C-C3C	2.07	131.74	127.88
29	jJ	202	PEB	CMB-C2B-C1B	2.07	128.26	125.06
29	jL	202	PEB	CMB-C2B-C1B	2.07	128.26	125.06
29	IJ	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	cJ	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	IL	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	cL	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
31	1P	1002	CYC	O1A-CGA-CBA	-2.07	116.42	123.08
29	e1	201	PEB	C4B-NB-C1B	-2.07	102.60	106.51
29	eK	201	PEB	C4B-NB-C1B	-2.07	102.60	106.51
29	NJ	202	PEB	CMB-C2B-C1B	2.07	128.26	125.06
29	NL	202	PEB	CMB-C2B-C1B	2.07	128.26	125.06
29	VB	202	PEB	CAB-C3B-C4B	2.07	128.68	125.01
29	VM	202	PEB	CAB-C3B-C4B	2.07	128.68	125.01
29	T7	203	PEB	CBC-CAC-C2C	-2.07	109.08	112.62
29	T9	203	PEB	CBC-CAC-C2C	-2.07	109.08	112.62
29	JA	201	PEB	C1B-C2B-C3B	-2.07	104.13	106.51
29	JN	201	PEB	C1B-C2B-C3B	-2.07	104.13	106.51
29	XB	202	PEB	CAB-CBB-CGB	2.07	118.06	113.60
29	XM	202	PEB	CAB-CBB-CGB	2.07	118.06	113.60
29	WJ	201	PEB	CMB-C2B-C1B	2.07	128.26	125.06
29	WL	201	PEB	CMB-C2B-C1B	2.07	128.26	125.06
31	hP	1001	CYC	C1B-CHB-C4A	2.07	133.15	128.08
29	HA	201	PEB	O1B-CGB-CBB	-2.07	116.42	123.08
29	HN	201	PEB	O1B-CGB-CBB	-2.07	116.42	123.08
31	UP	1001	CYC	C1B-CHB-C4A	2.07	133.15	128.08
29	A7	301	PEB	C2B-C1B-NB	2.07	114.95	110.53
29	A9	301	PEB	C2B-C1B-NB	2.07	114.95	110.53
29	CC	202	PEB	OD-C4D-ND	-2.07	122.86	125.93
29	GC	202	PEB	OD-C4D-ND	-2.07	122.86	125.93
29	CE	202	PEB	OD-C4D-ND	-2.07	122.86	125.93
29	GE	202	PEB	OD-C4D-ND	-2.07	122.86	125.93
29	b1	201	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	bK	201	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	j7	201	PEB	CAB-CBB-CGB	-2.07	109.14	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	j9	201	PEB	CAB-CBB-CGB	-2.07	109.14	113.60
29	BA	201	PEB	CBB-CAB-C3B	2.07	118.38	112.63
29	BN	201	PEB	CBB-CAB-C3B	2.07	118.38	112.63
29	EJ	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	UJ	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	gJ	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	EL	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	UL	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	gL	201	PEB	CHC-C1D-ND	-2.07	111.54	113.95
29	FF	1002	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	FI	1002	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	FB	203	PEB	CAB-CBB-CGB	2.07	118.06	113.60
29	FM	203	PEB	CAB-CBB-CGB	2.07	118.06	113.60
31	jP	1001	CYC	C1B-CHB-C4A	2.07	133.14	128.08
29	i7	201	PEB	CHB-C4B-NB	-2.07	125.95	128.83
29	i9	201	PEB	CHB-C4B-NB	-2.07	125.95	128.83
29	LA	201	PEB	O1B-CGB-CBB	-2.07	116.43	123.08
29	LN	201	PEB	O1B-CGB-CBB	-2.07	116.43	123.08
29	R7	203	PEB	CBC-CAC-C2C	-2.07	109.08	112.62
29	R9	203	PEB	CBC-CAC-C2C	-2.07	109.08	112.62
29	jF	202	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	jI	202	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	T1	201	PEB	C4B-NB-C1B	-2.07	102.61	106.51
29	TK	201	PEB	C4B-NB-C1B	-2.07	102.61	106.51
29	P7	201	PEB	CHB-C4B-NB	-2.07	125.95	128.83
29	P9	201	PEB	CHB-C4B-NB	-2.07	125.95	128.83
29	FD	202	PEB	CAA-C3A-C4A	-2.07	107.36	112.67
29	V7	203	PEB	CBC-CAC-C2C	-2.07	109.09	112.62
29	m7	203	PEB	CBC-CAC-C2C	-2.07	109.09	112.62
29	V9	203	PEB	CBC-CAC-C2C	-2.07	109.09	112.62
29	m9	203	PEB	CBC-CAC-C2C	-2.07	109.09	112.62
29	GG	201	PEB	CHB-C4B-C3B	-2.07	120.54	125.32
29	GQ	201	PEB	CHB-C4B-C3B	-2.07	120.54	125.32
31	fP	1001	CYC	C1B-CHB-C4A	2.07	133.14	128.08
31	qP	1001	CYC	C1B-CHB-C4A	2.07	133.14	128.08
29	eF	203	PEB	CAB-CBB-CGB	-2.07	109.15	113.60
29	eI	203	PEB	CAB-CBB-CGB	-2.07	109.15	113.60
29	gB	203	PEB	CAB-CBB-CGB	2.07	118.06	113.60
29	gM	203	PEB	CAB-CBB-CGB	2.07	118.06	113.60
29	S1	201	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	SK	201	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	iF	203	PEB	CAB-CBB-CGB	-2.07	109.15	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	iI	203	PEB	CAB-CBB-CGB	-2.07	109.15	113.60
29	DA	202	PEB	CHA-C1B-NB	-2.07	120.61	124.93
29	DN	202	PEB	CHA-C1B-NB	-2.07	120.61	124.93
29	LD	202	PEB	CAA-C3A-C4A	-2.07	107.36	112.67
29	LB	202	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	LM	202	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	LA	201	PEB	C2A-C1A-NA	2.07	110.06	108.27
29	AF	305	PEB	C2A-C1A-NA	2.07	110.06	108.27
29	AI	305	PEB	C2A-C1A-NA	2.07	110.06	108.27
29	LN	201	PEB	C2A-C1A-NA	2.07	110.06	108.27
29	fJ	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
29	fL	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
31	lP	1001	CYC	C2A-C1A-NA	2.07	113.06	110.05
29	xJ	302	PEB	CAB-C3B-C4B	2.07	128.67	125.01
29	FJ	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
29	FL	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
29	a7	201	PEB	CHB-C4B-NB	-2.07	125.96	128.83
29	a9	201	PEB	CHB-C4B-NB	-2.07	125.96	128.83
29	d1	201	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	TB	202	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	dK	201	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	TM	202	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	R2	202	PEB	CAC-CBC-CGC	-2.07	107.96	113.76
29	RR	202	PEB	CAC-CBC-CGC	-2.07	107.96	113.76
31	FP	1001	CYC	C1B-CHB-C4A	2.07	133.13	128.08
31	XP	1001	CYC	C1B-CHB-C4A	2.07	133.13	128.08
29	D4	202	PEB	CAA-C3A-C4A	-2.07	107.37	112.67
29	DA	201	PEB	O1B-CGB-CBB	-2.07	116.44	123.08
29	DN	201	PEB	O1B-CGB-CBB	-2.07	116.44	123.08
29	PB	202	PEB	CAB-CBB-CGB	2.07	118.05	113.60
29	PM	202	PEB	CAB-CBB-CGB	2.07	118.05	113.60
29	FA	202	PEB	CHA-C4A-NA	-2.07	122.75	125.20
29	FN	202	PEB	CHA-C4A-NA	-2.07	122.75	125.20
29	JJ	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
29	JL	202	PEB	CMB-C2B-C1B	2.07	128.25	125.06
29	SJ	201	PEB	CHC-C1D-ND	-2.07	111.55	113.95
29	YJ	201	PEB	CHC-C1D-ND	-2.07	111.55	113.95
29	SL	201	PEB	CHC-C1D-ND	-2.07	111.55	113.95
29	YL	201	PEB	CHC-C1D-ND	-2.07	111.55	113.95
29	IG	201	PEB	CHB-C4B-C3B	-2.07	120.55	125.32
29	IQ	201	PEB	CHB-C4B-C3B	-2.07	120.55	125.32
31	QP	1001	CYC	C1B-CHB-C4A	2.07	133.13	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	TP	1001	CYC	C2A-C1A-NA	2.07	113.05	110.05
29	U1	202	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	UK	202	PEB	CAB-C3B-C4B	2.07	128.66	125.01
29	BC	202	PEB	C1C-CHB-C4B	2.07	131.28	128.81
29	BE	202	PEB	C1C-CHB-C4B	2.07	131.28	128.81
29	d1	202	PEB	CHA-C4A-NA	-2.06	122.75	125.20
29	dK	202	PEB	CHA-C4A-NA	-2.06	122.75	125.20
29	BA	201	PEB	O1B-CGB-CBB	-2.06	116.45	123.08
29	BN	201	PEB	O1B-CGB-CBB	-2.06	116.45	123.08
29	VB	203	PEB	CAB-CBB-CGB	2.06	118.05	113.60
29	VM	203	PEB	CAB-CBB-CGB	2.06	118.05	113.60
29	DB	202	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	DM	202	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	GJ	201	PEB	CHC-C1D-ND	-2.06	111.55	113.95
29	GL	201	PEB	CHC-C1D-ND	-2.06	111.55	113.95
29	h1	201	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	hK	201	PEB	CAB-C3B-C4B	2.06	128.66	125.01
31	wP	1001	CYC	C1B-CHB-C4A	2.06	133.12	128.08
31	1P	1001	CYC	C1B-CHB-C4A	2.06	133.12	128.08
29	zL	501	PEB	CBC-CAC-C2C	-2.06	109.10	112.62
29	F4	202	PEB	CAA-C3A-C4A	-2.06	107.38	112.67
29	BB	301	PEB	CBA-CAA-C3A	2.06	118.06	113.47
29	BM	301	PEB	CBA-CAA-C3A	2.06	118.06	113.47
29	JA	201	PEB	CBB-CAB-C3B	2.06	118.36	112.63
29	JN	201	PEB	CBB-CAB-C3B	2.06	118.36	112.63
29	J1	1002	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	JK	1002	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	OJ	201	PEB	CHC-C1D-ND	-2.06	111.55	113.95
29	OL	201	PEB	CHC-C1D-ND	-2.06	111.55	113.95
29	PR	201	PEB	CAC-CBC-CGC	-2.06	107.98	113.76
29	LA	201	PEB	CBB-CAB-C3B	2.06	118.36	112.63
29	LN	201	PEB	CBB-CAB-C3B	2.06	118.36	112.63
29	mF	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	mI	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	HQ	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
31	nP	1001	CYC	C1B-CHB-C4A	2.06	133.12	128.08
29	HD	202	PEB	CAA-C3A-C4A	-2.06	107.38	112.67
29	G4	201	PEB	CMA-C2A-C1A	-2.06	107.96	112.40
29	Z1	202	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	ZK	202	PEB	CAB-C3B-C4B	2.06	128.66	125.01
29	F4	202	PEB	CHA-C1B-NB	-2.06	120.62	124.93
31	tP	1001	CYC	C2A-C1A-NA	2.06	113.05	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FJ	201	PEB	CAB-C3B-C4B	2.06	128.65	125.01
29	FL	201	PEB	CAB-C3B-C4B	2.06	128.65	125.01
29	eB	202	PEB	CAB-CBB-CGB	2.06	118.04	113.60
29	eM	202	PEB	CAB-CBB-CGB	2.06	118.04	113.60
29	JD	202	PEB	CAA-C3A-C4A	-2.06	107.38	112.67
29	H8	202	PEB	CHA-C1B-NB	-2.06	120.62	124.93
29	HB	203	PEB	CAB-CBB-CGB	2.06	118.04	113.60
29	HM	203	PEB	CAB-CBB-CGB	2.06	118.04	113.60
29	EC	202	PEB	OD-C4D-ND	-2.06	122.88	125.93
29	EE	202	PEB	OD-C4D-ND	-2.06	122.88	125.93
29	j1	201	PEB	CAB-C3B-C4B	2.06	128.65	125.01
29	jK	201	PEB	CAB-C3B-C4B	2.06	128.65	125.01
29	MJ	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	WJ	202	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	oJ	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	ML	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	WL	202	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	oL	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	T2	202	PEB	CHA-C4A-NA	2.06	127.65	125.20
29	d7	201	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	d9	201	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	VF	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	VI	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	MQ	403	PEB	C2B-C1B-NB	2.06	114.92	110.53
29	a1	201	PEB	C4B-NB-C1B	-2.06	102.63	106.51
29	aK	201	PEB	C4B-NB-C1B	-2.06	102.63	106.51
29	RJ	202	PEB	CMB-C2B-C1B	2.06	128.24	125.06
29	RL	202	PEB	CMB-C2B-C1B	2.06	128.24	125.06
29	PF	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	PI	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	JA	201	PEB	O1B-CGB-CBB	-2.06	116.47	123.08
29	JN	201	PEB	O1B-CGB-CBB	-2.06	116.47	123.08
29	ED	201	PEB	OA-C1A-C2A	-2.06	124.54	126.17
29	KD	202	PEB	OA-C1A-C2A	-2.06	124.54	126.17
31	vP	1001	CYC	CBD-CAD-C3D	-2.06	109.11	112.62
29	DA	201	PEB	CBB-CAB-C3B	2.06	118.35	112.63
29	DN	201	PEB	CBB-CAB-C3B	2.06	118.35	112.63
29	mJ	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
29	mL	201	PEB	CHC-C1D-ND	-2.06	111.56	113.95
31	pP	1001	CYC	C2A-C1A-NA	2.06	113.04	110.05
29	gF	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60
29	gI	203	PEB	CAB-CBB-CGB	-2.06	109.17	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	YP	1000	CYC	O1A-CGA-CBA	-2.06	116.47	123.08
29	U2	201	PEB	O2C-CGC-CBC	2.06	120.64	114.03
29	UR	201	PEB	O2C-CGC-CBC	2.06	120.64	114.03
31	oP	1001	CYC	C1B-CHB-C4A	2.06	133.11	128.08
29	TJ	202	PEB	CMB-C2B-C1B	2.06	128.23	125.06
29	TL	202	PEB	CMB-C2B-C1B	2.06	128.23	125.06
29	iB	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	iM	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	K4	202	PEB	OA-C1A-C2A	-2.06	124.54	126.17
29	N2	202	PEB	CHA-C4A-NA	2.06	127.65	125.20
29	F5	202	PEB	CHA-C1B-NB	-2.06	120.63	124.93
29	cB	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	cM	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	I4	201	PEB	CBA-CAA-C3A	-2.06	108.89	113.47
30	AB	304	PUB	C1D-CHC-C4C	-2.06	108.89	113.37
29	dF	202	PEB	C2A-C1A-NA	2.06	110.05	108.27
29	dI	202	PEB	C2A-C1A-NA	2.06	110.05	108.27
31	BP	1001	CYC	C1B-CHB-C4A	2.06	133.10	128.08
29	kF	203	PEB	CAB-CBB-CGB	-2.06	109.18	113.60
29	kI	203	PEB	CAB-CBB-CGB	-2.06	109.18	113.60
29	FC	202	PEB	C1C-CHB-C4B	2.06	131.26	128.81
29	FE	202	PEB	C1C-CHB-C4B	2.06	131.26	128.81
29	mB	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	mM	203	PEB	CAB-CBB-CGB	2.06	118.03	113.60
29	B4	202	PEB	CHA-C1B-NB	-2.06	120.63	124.93
29	L5	202	PEB	CHA-C1B-NB	-2.06	120.63	124.93
29	IC	202	PEB	OD-C4D-ND	-2.06	122.89	125.93
29	IE	202	PEB	OD-C4D-ND	-2.06	122.89	125.93
31	sP	1001	CYC	C1B-CHB-C4A	2.06	133.10	128.08
31	EP	1001	CYC	C2A-C1A-NA	2.06	113.04	110.05
29	DD	202	PEB	CAA-C3A-C4A	-2.06	107.40	112.67
29	O1	202	PEB	CHA-C4A-NA	-2.05	122.76	125.20
29	OK	202	PEB	CHA-C4A-NA	-2.05	122.76	125.20
29	J4	202	PEB	CAA-C3A-C4A	-2.05	107.40	112.67
29	NB	202	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	NM	202	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	B4	202	PEB	CAA-C3A-C4A	-2.05	107.40	112.67
29	O1	201	PEB	CAB-C3B-C4B	2.05	128.64	125.01
29	OK	201	PEB	CAB-C3B-C4B	2.05	128.64	125.01
29	JB	203	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	JM	203	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	H4	202	PEB	CAA-C3A-C4A	-2.05	107.40	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	L4	202	PEB	CAA-C3A-C4A	-2.05	107.40	112.67
31	JP	1001	CYC	C2A-C1A-NA	2.05	113.04	110.05
29	O2	201	PEB	O2C-CGC-CBC	2.05	120.63	114.03
29	W1	201	PEB	CAB-C3B-C4B	2.05	128.64	125.01
29	WK	201	PEB	CAB-C3B-C4B	2.05	128.64	125.01
29	i1	201	PEB	C4B-NB-C1B	-2.05	102.64	106.51
29	iK	201	PEB	C4B-NB-C1B	-2.05	102.64	106.51
29	YF	203	PEB	CAB-CBB-CGB	-2.05	109.19	113.60
29	YI	203	PEB	CAB-CBB-CGB	-2.05	109.19	113.60
29	LA	202	PEB	CHA-C1B-NB	-2.05	120.64	124.93
29	BD	202	PEB	CHA-C1B-NB	-2.05	120.64	124.93
29	LN	202	PEB	CHA-C1B-NB	-2.05	120.64	124.93
29	F1	1002	PEB	CAB-C3B-C4B	2.05	128.64	125.01
29	FK	1002	PEB	CAB-C3B-C4B	2.05	128.64	125.01
31	DP	1001	CYC	C1B-CHB-C4A	2.05	133.09	128.08
29	LC	202	PEB	C1C-CHB-C4B	2.05	131.26	128.81
29	LE	202	PEB	C1C-CHB-C4B	2.05	131.26	128.81
29	N1	1002	PEB	CAB-C3B-C4B	2.05	128.64	125.01
31	M9	1001	CYC	CAA-C2A-C1A	2.05	128.64	125.01
29	M2	201	PEB	O2C-CGC-CBC	2.05	120.62	114.03
31	E7	1001	CYC	CAA-C2A-C1A	2.05	128.64	125.01
31	E9	1001	CYC	CAA-C2A-C1A	2.05	128.64	125.01
29	LB	203	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	LM	203	PEB	CAB-CBB-CGB	2.05	118.02	113.60
29	QJ	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	QL	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	AG	201	PEB	CHB-C4B-C3B	-2.05	120.58	125.32
29	AQ	201	PEB	CHB-C4B-C3B	-2.05	120.58	125.32
29	Q1	201	PEB	CAB-C3B-C4B	2.05	128.63	125.01
29	QK	201	PEB	CAB-C3B-C4B	2.05	128.63	125.01
29	S1	202	PEB	CHA-C4A-NA	-2.05	122.77	125.20
29	U1	203	PEB	CHA-C4A-NA	-2.05	122.77	125.20
29	V2	202	PEB	CHA-C4A-NA	2.05	127.64	125.20
29	SK	202	PEB	CHA-C4A-NA	-2.05	122.77	125.20
29	UK	203	PEB	CHA-C4A-NA	-2.05	122.77	125.20
31	H7	1001	CYC	CAC-C3C-C4C	-2.05	107.41	112.67
31	H9	1001	CYC	CAC-C3C-C4C	-2.05	107.41	112.67
29	K4	201	PEB	CMA-C2A-C1A	-2.05	107.98	112.40
30	AM	304	PUB	C1D-CHC-C4C	-2.05	108.91	113.37
31	NP	1001	CYC	CBD-CAD-C3D	-2.05	109.12	112.62
29	TJ	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	TL	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	Z1	203	PEB	CHA-C4A-NA	-2.05	122.77	125.20
29	ZK	203	PEB	CHA-C4A-NA	-2.05	122.77	125.20
29	DK	1002	PEB	CAB-C3B-C4B	2.05	128.63	125.01
31	GP	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
31	KP	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
31	gP	1001	CYC	C2A-C1A-NA	2.05	113.03	110.05
29	LD	202	PEB	C4B-NB-C1B	-2.05	102.65	106.51
29	XJ	202	PEB	CMB-C2B-C1B	2.05	128.22	125.06
29	XL	202	PEB	CMB-C2B-C1B	2.05	128.22	125.06
29	GD	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	KD	201	PEB	CBA-CAA-C3A	-2.05	108.91	113.47
29	L8	202	PEB	CHA-C1B-NB	-2.05	120.65	124.93
29	BA	202	PEB	CHA-C1B-NB	-2.05	120.65	124.93
29	FD	202	PEB	CHA-C1B-NB	-2.05	120.65	124.93
29	BN	202	PEB	CHA-C1B-NB	-2.05	120.65	124.93
29	IC	201	PEB	C2B-C1B-NB	2.05	114.90	110.53
29	IE	201	PEB	C2B-C1B-NB	2.05	114.90	110.53
29	NJ	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	NL	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	GC	201	PEB	C2B-C1B-NB	2.05	114.90	110.53
29	GE	201	PEB	C2B-C1B-NB	2.05	114.90	110.53
29	DJ	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	DL	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
29	J4	202	PEB	CHA-C1B-NB	-2.05	120.65	124.93
29	AJ	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	iJ	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	AL	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	iL	201	PEB	CHC-C1D-ND	-2.05	111.57	113.95
29	ID	201	PEB	CBA-CAA-C3A	-2.05	108.91	113.47
31	J9	1001	CYC	CAC-C3C-C4C	-2.05	107.42	112.67
29	l1	201	PEB	CAB-C3B-C4B	2.05	128.63	125.01
29	lK	201	PEB	CAB-C3B-C4B	2.05	128.63	125.01
29	FG	203	PEB	CAB-CBB-CGB	-2.05	109.20	113.60
29	PR	201	PEB	CHA-C4A-NA	2.05	127.64	125.20
29	C4	201	PEB	CMA-C2A-C1A	-2.05	107.99	112.40
31	GK	1001	CYC	C1B-CHB-C4A	-2.05	123.08	128.08
31	DK	1001	CYC	CBA-CAA-C2A	-2.05	106.94	112.63
29	G4	201	PEB	CBA-CAA-C3A	-2.04	108.91	113.47
29	BD	202	PEB	CAA-C3A-C4A	-2.04	107.42	112.67
29	wL	301	PEB	CAC-CBC-CGC	-2.04	108.03	113.76
29	LG	203	PEB	CAB-CBB-CGB	-2.04	109.20	113.60
31	D7	1001	CYC	CAC-C3C-C4C	-2.04	107.42	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	D9	1001	CYC	CAC-C3C-C4C	-2.04	107.42	112.67
29	L4	202	PEB	C4B-NB-C1B	-2.04	102.66	106.51
29	e7	201	PEB	C4B-NB-C1B	-2.04	102.66	106.51
29	e9	201	PEB	C4B-NB-C1B	-2.04	102.66	106.51
29	MG	401	PEB	C2B-C1B-NB	2.04	114.89	110.53
29	NK	1002	PEB	CAB-C3B-C4B	2.04	128.62	125.01
31	D1	1003	CYC	C1B-CHB-C4A	-2.04	123.09	128.08
29	dD	401	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
29	FA	201	PEB	C2A-C1A-NA	2.04	110.03	108.27
29	FN	201	PEB	C2A-C1A-NA	2.04	110.03	108.27
31	pP	1001	CYC	CBD-CAD-C3D	-2.04	109.13	112.62
29	M4	201	PEB	CBA-CAA-C3A	-2.04	108.92	113.47
29	E4	201	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
29	W2	201	PEB	O2C-CGC-CBC	2.04	120.59	114.03
29	D1	1002	PEB	CAB-C3B-C4B	2.04	128.62	125.01
29	EC	201	PEB	C2B-C1B-NB	2.04	114.89	110.53
29	EE	201	PEB	C2B-C1B-NB	2.04	114.89	110.53
30	QB	201	PUB	CMB-C2B-C3B	2.04	128.79	124.94
30	QM	201	PUB	CMB-C2B-C3B	2.04	128.79	124.94
31	D1	1001	CYC	CBA-CAA-C2A	-2.04	106.95	112.63
31	L9	1001	CYC	CAC-C3C-C4C	-2.04	107.43	112.67
31	EP	1001	CYC	CBD-CAD-C3D	-2.04	109.14	112.62
29	K4	201	PEB	CBA-CAA-C3A	-2.04	108.92	113.47
29	bJ	201	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
29	bL	201	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
29	DQ	203	PEB	CAB-CBB-CGB	-2.04	109.21	113.60
29	KC	202	PEB	C2B-C1B-NB	2.04	114.88	110.53
29	KE	202	PEB	C2B-C1B-NB	2.04	114.88	110.53
29	JJ	201	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
29	JL	201	PEB	CMA-C2A-C1A	-2.04	108.00	112.40
31	M1	1001	CYC	C1B-CHB-C4A	-2.04	123.10	128.08
31	MK	1001	CYC	C1B-CHB-C4A	-2.04	123.10	128.08
31	N7	1001	CYC	CAC-C3C-C4C	-2.04	107.44	112.67
31	N9	1001	CYC	CAC-C3C-C4C	-2.04	107.44	112.67
29	VJ	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
29	VL	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
31	rP	1001	CYC	CBD-CAD-C3D	-2.04	109.14	112.62
31	tP	1001	CYC	CBD-CAD-C3D	-2.04	109.14	112.62
31	EK	1001	CYC	C1B-CHB-C4A	-2.04	123.10	128.08
29	KD	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
31	CK	1001	CYC	C1B-CHB-C4A	-2.04	123.10	128.08
29	jF	201	PEB	CAA-C3A-C2A	-2.04	109.17	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	jI	201	PEB	CAA-C3A-C2A	-2.04	109.17	114.26
29	F4	202	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	R7	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	R9	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	JD	202	PEB	CHA-C1B-NB	-2.04	120.67	124.93
29	c7	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	c9	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	MR	201	PEB	O2C-CGC-CBC	2.04	120.58	114.03
29	OR	201	PEB	O2C-CGC-CBC	2.04	120.58	114.03
29	MD	201	PEB	CBA-CAA-C3A	-2.04	108.93	113.47
29	tJ	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
29	tL	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
29	wJ	301	PEB	CAC-CBC-CGC	-2.04	108.05	113.76
31	L1	1001	CYC	CBA-CAA-C2A	-2.04	106.97	112.63
31	LK	1001	CYC	CBA-CAA-C2A	-2.04	106.97	112.63
31	J7	1001	CYC	CAC-C3C-C4C	-2.04	107.44	112.67
29	ZJ	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
29	ZL	201	PEB	CMA-C2A-C1A	-2.04	108.01	112.40
31	H1	1001	CYC	CBA-CAA-C2A	-2.04	106.97	112.63
29	L1	1002	PEB	CAB-C3B-C4B	2.04	128.61	125.01
29	LK	1002	PEB	CAB-C3B-C4B	2.04	128.61	125.01
29	k7	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	k9	201	PEB	C4B-NB-C1B	-2.04	102.67	106.51
29	dD	401	PEB	CBA-CAA-C3A	-2.04	108.94	113.47
29	I4	202	PEB	OA-C1A-C2A	-2.03	124.56	126.17
29	D4	202	PEB	C4B-NB-C1B	-2.03	102.68	106.51
31	C1	1001	CYC	C1B-CHB-C4A	-2.03	123.11	128.08
31	E1	1001	CYC	C1B-CHB-C4A	-2.03	123.11	128.08
31	C7	1001	CYC	CAA-C2A-C1A	2.03	128.61	125.01
31	C9	1001	CYC	CAA-C2A-C1A	2.03	128.61	125.01
29	PJ	201	PEB	CMA-C2A-C1A	-2.03	108.02	112.40
29	PL	201	PEB	CMA-C2A-C1A	-2.03	108.02	112.40
29	hF	201	PEB	CAA-C3A-C2A	-2.03	109.18	114.26
29	hI	201	PEB	CAA-C3A-C2A	-2.03	109.18	114.26
31	J1	1001	CYC	CBA-CAA-C2A	-2.03	106.98	112.63
31	JK	1001	CYC	CBA-CAA-C2A	-2.03	106.98	112.63
29	F7	1002	PEB	CMC-C3C-C2C	-2.03	121.11	124.94
29	MD	201	PEB	CMA-C2A-C1A	-2.03	108.02	112.40
29	l1	202	PEB	CHA-C4A-NA	-2.03	122.79	125.20
29	lK	202	PEB	CHA-C4A-NA	-2.03	122.79	125.20
31	F7	1001	CYC	CAC-C3C-C4C	-2.03	107.45	112.67
29	gB	203	PEB	CMA-C2A-C1A	-2.03	108.02	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	gM	203	PEB	CMA-C2A-C1A	-2.03	108.02	112.40
31	AP	1001	CYC	CBD-CAD-C3D	-2.03	109.15	112.62
31	CP	1001	CYC	CBD-CAD-C3D	-2.03	109.15	112.62
29	Q1	202	PEB	CHA-C4A-NA	-2.03	122.79	125.20
29	P2	201	PEB	CHA-C4A-NA	2.03	127.62	125.20
29	QK	202	PEB	CHA-C4A-NA	-2.03	122.79	125.20
29	CD	201	PEB	CBA-CAA-C3A	-2.03	108.94	113.47
29	FQ	203	PEB	CAB-CBB-CGB	-2.03	109.23	113.60
29	JQ	203	PEB	CAB-CBB-CGB	-2.03	109.23	113.60
31	RP	1001	CYC	CBD-CAD-C3D	-2.03	109.15	112.62
31	iP	1001	CYC	CBD-CAD-C3D	-2.03	109.15	112.62
29	NR	202	PEB	CHA-C4A-NA	2.03	127.62	125.20
31	G7	1001	CYC	CAA-C2A-C1A	2.03	128.60	125.01
29	H4	202	PEB	CHA-C1B-NB	-2.03	120.69	124.93
29	iB	203	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	iM	203	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
31	cP	1001	CYC	CBD-CAD-C3D	-2.03	109.16	112.62
29	c1	203	PEB	CAB-C3B-C4B	2.03	128.60	125.01
29	cK	203	PEB	CAB-C3B-C4B	2.03	128.60	125.01
29	m7	201	PEB	C4B-NB-C1B	-2.03	102.69	106.51
29	m9	201	PEB	C4B-NB-C1B	-2.03	102.69	106.51
29	dJ	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	dL	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
30	QB	201	PUB	O1B-CGB-CBB	-2.03	116.56	123.08
30	QM	201	PUB	O1B-CGB-CBB	-2.03	116.56	123.08
29	AC	201	PEB	C2B-C1B-NB	2.03	114.86	110.53
29	AE	201	PEB	C2B-C1B-NB	2.03	114.86	110.53
31	L7	1001	CYC	CAC-C3C-C4C	-2.03	107.46	112.67
31	HF	1001	CYC	CMC-C2C-C1C	-2.03	108.03	112.40
31	HI	1001	CYC	CMC-C2C-C1C	-2.03	108.03	112.40
31	NK	1001	CYC	CBA-CAA-C2A	-2.03	106.99	112.63
29	HG	203	PEB	CAB-CBB-CGB	-2.03	109.24	113.60
31	PP	1001	CYC	CBD-CAD-C3D	-2.03	109.16	112.62
31	gP	1001	CYC	CBD-CAD-C3D	-2.03	109.16	112.62
29	a7	201	PEB	C4B-NB-C1B	-2.03	102.69	106.51
29	a9	201	PEB	C4B-NB-C1B	-2.03	102.69	106.51
29	UF	202	PEB	CAA-C3A-C2A	-2.03	109.19	114.26
29	UI	202	PEB	CAA-C3A-C2A	-2.03	109.19	114.26
29	E4	201	PEB	CBA-CAA-C3A	-2.03	108.95	113.47
29	DD	202	PEB	C4B-NB-C1B	-2.03	102.69	106.51
31	eP	1001	CYC	CBD-CAD-C3D	-2.03	109.16	112.62
31	K7	1001	CYC	CAA-C2A-C1A	2.03	128.59	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	KP	1001	CYC	CBD-CAD-C3D	-2.03	109.16	112.62
29	C4	201	PEB	CBA-CAA-C3A	-2.03	108.95	113.47
29	G4	202	PEB	OA-C1A-C2A	-2.03	124.56	126.17
29	jJ	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	rJ	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	jL	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	rL	201	PEB	CMA-C2A-C1A	-2.03	108.03	112.40
29	DG	203	PEB	CAB-CBB-CGB	-2.03	109.24	113.60
29	VR	202	PEB	CHA-C4A-NA	2.03	127.61	125.20
29	D7	1002	PEB	CMC-C3C-C2C	-2.03	121.12	124.94
29	D9	1002	PEB	CMC-C3C-C2C	-2.03	121.12	124.94
31	M7	1001	CYC	CAA-C2A-C1A	2.03	128.59	125.01
29	CC	201	PEB	C2B-C1B-NB	2.03	114.85	110.53
29	CE	201	PEB	C2B-C1B-NB	2.03	114.85	110.53
29	ID	202	PEB	OA-C1A-C2A	-2.03	124.56	126.17
29	DB	203	PEB	CMA-C2A-C1A	-2.03	108.04	112.40
29	DM	203	PEB	CMA-C2A-C1A	-2.03	108.04	112.40
29	NR	202	PEB	CAB-CBB-CGB	-2.03	109.24	113.60
29	FJ	201	PEB	CMA-C2A-C1A	-2.03	108.04	112.40
29	FL	201	PEB	CMA-C2A-C1A	-2.03	108.04	112.40
29	BD	202	PEB	C4B-NB-C1B	-2.03	102.69	106.51
29	QR	201	PEB	O2C-CGC-CBC	2.03	120.54	114.03
29	DA	201	PEB	C2A-C1A-NA	2.03	110.02	108.27
29	DN	201	PEB	C2A-C1A-NA	2.03	110.02	108.27
29	T1	202	PEB	CAB-C3B-C4B	2.03	128.59	125.01
29	TK	202	PEB	CAB-C3B-C4B	2.03	128.59	125.01
29	B3	201	PEB	CHB-C4B-C3B	-2.03	120.64	125.32
29	BO	201	PEB	CHB-C4B-C3B	-2.03	120.64	125.32
29	XJ	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	XL	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	V7	201	PEB	C4B-NB-C1B	-2.02	102.69	106.51
29	V9	201	PEB	C4B-NB-C1B	-2.02	102.69	106.51
31	HK	1001	CYC	CBA-CAA-C2A	-2.02	107.00	112.63
29	LQ	202	PEB	CAB-CBB-CGB	-2.02	109.25	113.60
29	pJ	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	pL	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	fI	202	PEB	CBC-CAC-C2C	-2.02	109.17	112.62
29	fK	202	PEB	CBC-CAC-C2C	-2.02	109.17	112.62
31	IP	1001	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
29	GD	201	PEB	CBA-CAA-C3A	-2.02	108.96	113.47
29	aJ	201	PEB	CHC-C1D-ND	-2.02	111.60	113.95
29	aL	201	PEB	CHC-C1D-ND	-2.02	111.60	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	mP	1001	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
29	nJ	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	nL	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	BG	203	PEB	CAB-CBB-CGB	-2.02	109.25	113.60
29	Y7	201	PEB	C4B-NB-C1B	-2.02	102.70	106.51
29	Y9	201	PEB	C4B-NB-C1B	-2.02	102.70	106.51
29	FD	202	PEB	C4B-NB-C1B	-2.02	102.70	106.51
29	CD	201	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	WR	201	PEB	O2C-CGC-CBC	2.02	120.53	114.03
29	I3	201	PEB	CBB-CAB-C3B	-2.02	107.01	112.63
29	IO	201	PEB	CBB-CAB-C3B	-2.02	107.01	112.63
31	GP	1001	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
31	YP	1000	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
29	ZB	203	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	ZM	203	PEB	CMA-C2A-C1A	-2.02	108.04	112.40
29	bF	201	PEB	CAA-C3A-C2A	-2.02	109.21	114.26
29	bI	201	PEB	CAA-C3A-C2A	-2.02	109.21	114.26
31	K1	1001	CYC	C1B-CHB-C4A	-2.02	123.14	128.08
31	KK	1001	CYC	C1B-CHB-C4A	-2.02	123.14	128.08
29	P1	203	PEB	CAB-C3B-C4B	2.02	128.59	125.01
29	PK	203	PEB	CAB-C3B-C4B	2.02	128.59	125.01
31	G9	1001	CYC	CAA-C2A-C1A	2.02	128.59	125.01
29	b1	202	PEB	CHA-C4A-NA	-2.02	122.80	125.20
29	bK	202	PEB	CHA-C4A-NA	-2.02	122.80	125.20
29	I3	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	IO	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	R1	203	PEB	CAB-C3B-C4B	2.02	128.58	125.01
29	RK	203	PEB	CAB-C3B-C4B	2.02	128.58	125.01
29	E3	201	PEB	CBB-CAB-C3B	-2.02	107.01	112.63
29	EO	201	PEB	CBB-CAB-C3B	-2.02	107.01	112.63
29	F3	201	PEB	CHB-C4B-C3B	-2.02	120.65	125.32
29	FO	201	PEB	CHB-C4B-C3B	-2.02	120.65	125.32
29	CD	202	PEB	OA-C1A-C2A	-2.02	124.57	126.17
31	JP	1001	CYC	CBD-CAD-C3D	-2.02	109.17	112.62
31	IK	1001	CYC	C1B-CHB-C4A	-2.02	123.14	128.08
29	T7	201	PEB	C4B-NB-C1B	-2.02	102.70	106.51
29	T9	201	PEB	C4B-NB-C1B	-2.02	102.70	106.51
29	ID	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	vJ	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	vL	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	A5	203	PEB	CAB-C3B-C4B	2.02	128.58	125.01
29	A8	203	PEB	CAB-C3B-C4B	2.02	128.58	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	F9	1001	CYC	CAC-C3C-C4C	-2.02	107.49	112.67
29	GD	202	PEB	OA-C1A-C2A	-2.02	124.57	126.17
29	A3	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	AO	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
31	N7	1001	CYC	CAC-C3C-C2C	-2.02	109.21	114.26
31	N9	1001	CYC	CAC-C3C-C2C	-2.02	109.21	114.26
31	FF	1001	CYC	CMC-C2C-C1C	-2.02	108.05	112.40
31	FI	1001	CYC	CMC-C2C-C1C	-2.02	108.05	112.40
31	K9	1001	CYC	CAA-C2A-C1A	2.02	128.58	125.01
31	N1	1001	CYC	CBA-CAA-C2A	-2.02	107.02	112.63
29	N2	202	PEB	CAB-CBB-CGB	-2.02	109.26	113.60
29	lF	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	lI	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	c7	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	c9	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	m1	202	PEB	CAB-C3B-C4B	2.02	128.58	125.01
29	mK	202	PEB	CAB-C3B-C4B	2.02	128.58	125.01
29	i7	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	i9	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	g7	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	g9	201	PEB	C2B-C1B-NB	2.02	114.84	110.53
29	C3	201	PEB	CBB-CAB-C3B	-2.02	107.02	112.63
29	CO	201	PEB	CBB-CAB-C3B	-2.02	107.02	112.63
29	fJ	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	fL	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	dF	202	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	dI	202	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	R7	201	PEB	C2B-C1B-NB	2.02	114.83	110.53
29	R9	201	PEB	C2B-C1B-NB	2.02	114.83	110.53
29	BQ	203	PEB	CAB-CBB-CGB	-2.02	109.26	113.60
29	hJ	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
29	hL	201	PEB	CMA-C2A-C1A	-2.02	108.05	112.40
31	I7	1001	CYC	CAA-C2A-C1A	2.02	128.58	125.01
31	I9	1001	CYC	CAA-C2A-C1A	2.02	128.58	125.01
29	A5	203	PEB	CMD-C2D-C3D	2.02	132.91	130.06
29	A8	203	PEB	CMD-C2D-C3D	2.02	132.91	130.06
29	M4	202	PEB	OA-C1A-C2A	-2.02	124.57	126.17
29	ZF	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	ZI	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	RJ	201	PEB	CMA-C2A-C1A	-2.02	108.06	112.40
29	RL	201	PEB	CMA-C2A-C1A	-2.02	108.06	112.40
29	xL	301	PEB	CAC-CBC-CGC	-2.02	108.10	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B4	202	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	P7	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	P9	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	Q2	201	PEB	O2C-CGC-CBC	2.02	120.51	114.03
29	g7	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
29	g9	201	PEB	C4B-NB-C1B	-2.02	102.71	106.51
31	L9	1001	CYC	CAC-C3C-C2C	-2.02	109.22	114.26
29	JG	203	PEB	CAB-CBB-CGB	-2.02	109.26	113.60
29	A3	201	PEB	CBB-CAB-C3B	-2.02	107.03	112.63
29	AO	201	PEB	CBB-CAB-C3B	-2.02	107.03	112.63
29	Y1	202	PEB	CAB-C3B-C4B	2.02	128.57	125.01
29	YK	202	PEB	CAB-C3B-C4B	2.02	128.57	125.01
29	OF	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
29	OI	201	PEB	CAA-C3A-C2A	-2.02	109.22	114.26
31	F1	1001	CYC	CBA-CAA-C2A	-2.02	107.03	112.63
31	FK	1001	CYC	CBA-CAA-C2A	-2.02	107.03	112.63
29	F9	1002	PEB	CMC-C3C-C2C	-2.02	121.14	124.94
29	I4	201	PEB	CMA-C2A-C1A	-2.02	108.06	112.40
29	SF	201	PEB	CAA-C3A-C2A	-2.01	109.22	114.26
29	SI	201	PEB	CAA-C3A-C2A	-2.01	109.22	114.26
29	IJ	201	PEB	CMA-C2A-C1A	-2.01	108.06	112.40
29	IL	201	PEB	CMA-C2A-C1A	-2.01	108.06	112.40
29	I5	203	PEB	CAB-C3B-C4B	2.01	128.57	125.01
29	I8	203	PEB	CAB-C3B-C4B	2.01	128.57	125.01
29	e7	201	PEB	C2B-C1B-NB	2.01	114.83	110.53
29	e9	201	PEB	C2B-C1B-NB	2.01	114.83	110.53
29	QF	201	PEB	CAA-C3A-C2A	-2.01	109.23	114.26
29	QI	201	PEB	CAA-C3A-C2A	-2.01	109.23	114.26
29	MQ	406	PEB	CAB-C3B-C4B	2.01	128.57	125.01
31	TP	1001	CYC	CBD-CAD-C3D	-2.01	109.18	112.62
29	PR	201	PEB	CAB-CBB-CGB	-2.01	109.27	113.60
29	G3	201	PEB	CBB-CAB-C3B	-2.01	107.03	112.63
29	GO	201	PEB	CBB-CAB-C3B	-2.01	107.03	112.63
31	H7	1001	CYC	CAC-C3C-C2C	-2.01	109.23	114.26
31	H9	1001	CYC	CAC-C3C-C2C	-2.01	109.23	114.26
29	K3	201	PEB	CBB-CAB-C3B	-2.01	107.03	112.63
29	KO	201	PEB	CBB-CAB-C3B	-2.01	107.03	112.63
29	j1	202	PEB	CHA-C4A-NA	-2.01	122.81	125.20
29	jK	202	PEB	CHA-C4A-NA	-2.01	122.81	125.20
29	g1	203	PEB	CAB-C3B-C4B	2.01	128.57	125.01
29	gK	203	PEB	CAB-C3B-C4B	2.01	128.57	125.01
29	BJ	201	PEB	CMA-C2A-C1A	-2.01	108.07	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BL	201	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	i7	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	i9	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	xJ	301	PEB	CAC-CBC-CGC	-2.01	108.12	113.76
29	WF	201	PEB	CAA-C3A-C2A	-2.01	109.23	114.26
29	WI	201	PEB	CAA-C3A-C2A	-2.01	109.23	114.26
31	D7	1001	CYC	CAC-C3C-C2C	-2.01	109.23	114.26
31	D9	1001	CYC	CAC-C3C-C2C	-2.01	109.23	114.26
30	A1	304	PUB	CAC-CBC-CGC	-2.01	109.28	113.60
30	AK	304	PUB	CAC-CBC-CGC	-2.01	109.28	113.60
29	NB	202	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	NM	202	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	a7	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	m7	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	a9	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	m9	201	PEB	C2B-C1B-NB	2.01	114.82	110.53
29	J7	1002	PEB	CMC-C3C-C2C	-2.01	121.15	124.94
29	RB	203	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	RM	203	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	MG	404	PEB	CAB-C3B-C4B	2.01	128.56	125.01
29	H7	1002	PEB	CMC-C3C-C2C	-2.01	121.15	124.94
29	H9	1002	PEB	CMC-C3C-C2C	-2.01	121.15	124.94
31	I1	1001	CYC	C1B-CHB-C4A	-2.01	123.17	128.08
29	JA	201	PEB	C2A-C1A-NA	2.01	110.00	108.27
29	JN	201	PEB	C2A-C1A-NA	2.01	110.00	108.27
29	H3	201	PEB	CHB-C4B-C3B	-2.01	120.68	125.32
29	HO	201	PEB	CHB-C4B-C3B	-2.01	120.68	125.32
29	LC	202	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	LE	202	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	JB	203	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	JM	203	PEB	CMA-C2A-C1A	-2.01	108.07	112.40
29	xJ	302	PEB	CAC-CBC-CGC	-2.01	108.13	113.76
29	xL	302	PEB	CAC-CBC-CGC	-2.01	108.13	113.76
29	F3	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	FO	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	V2	202	PEB	CAB-CBB-CGB	-2.01	109.28	113.60
29	cB	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	cM	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	bF	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	bI	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	NJ	201	PEB	C1B-C2B-C3B	-2.01	104.20	106.51
29	NL	201	PEB	C1B-C2B-C3B	-2.01	104.20	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	eB	202	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	mB	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	eM	202	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	mM	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	KG	202	PEB	CMB-C2B-C1B	2.01	128.16	125.06
29	KQ	202	PEB	CMB-C2B-C1B	2.01	128.16	125.06
29	G3	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	P7	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	P9	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	GO	201	PEB	C2B-C1B-NB	2.01	114.81	110.53
29	zJ	501	PEB	CBC-CAC-C2C	-2.01	109.19	112.62
29	fI	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	hI	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	fK	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	hK	202	PEB	CHA-C4A-NA	-2.01	122.82	125.20
29	FB	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	FM	203	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	fF	201	PEB	CAA-C3A-C2A	-2.01	109.25	114.26
29	fI	201	PEB	CAA-C3A-C2A	-2.01	109.25	114.26
29	J3	201	PEB	CHB-C4B-C3B	-2.01	120.69	125.32
29	JO	201	PEB	CHB-C4B-C3B	-2.01	120.69	125.32
31	L7	1001	CYC	CAC-C3C-C2C	-2.01	109.25	114.26
29	LJ	201	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	LL	201	PEB	CMA-C2A-C1A	-2.01	108.08	112.40
29	N1	1002	PEB	C1C-CHB-C4B	-2.01	126.41	128.81
29	AM	301	PEB	C1C-CHB-C4B	-2.01	126.41	128.81
29	CG	202	PEB	CMB-C2B-C1B	2.01	128.15	125.06
29	CQ	202	PEB	CMB-C2B-C1B	2.01	128.15	125.06
29	eI	203	PEB	CAB-C3B-C4B	2.01	128.56	125.01
29	eK	203	PEB	CAB-C3B-C4B	2.01	128.56	125.01
29	AB	301	PEB	C1C-CHB-C4B	-2.00	126.41	128.81
29	wJ	302	PEB	CAC-CBC-CGC	-2.00	108.14	113.76
29	L7	1002	PEB	CMC-C3C-C2C	-2.00	121.16	124.94
29	JD	202	PEB	C4B-NB-C1B	-2.00	102.73	106.51
29	Q1	202	PEB	CBC-CAC-C2C	-2.00	109.20	112.62
29	QK	202	PEB	CBC-CAC-C2C	-2.00	109.20	112.62
29	V7	201	PEB	C2B-C1B-NB	2.00	114.80	110.53
29	V9	201	PEB	C2B-C1B-NB	2.00	114.80	110.53
29	wL	302	PEB	CAC-CBC-CGC	-2.00	108.14	113.76
29	J4	202	PEB	C4B-NB-C1B	-2.00	102.74	106.51
31	J7	1001	CYC	CAC-C3C-C2C	-2.00	109.26	114.26
29	FC	202	PEB	C2B-C1B-NB	2.00	114.80	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	FE	202	PEB	C2B-C1B-NB	2.00	114.80	110.53
31	F7	1001	CYC	CAC-C3C-C2C	-2.00	109.26	114.26
29	I5	203	PEB	CMD-C2D-C3D	2.00	132.89	130.06
29	I8	203	PEB	CMD-C2D-C3D	2.00	132.89	130.06
29	I1	202	PEB	CBC-CAC-C2C	-2.00	109.20	112.62
29	IK	202	PEB	CBC-CAC-C2C	-2.00	109.20	112.62
29	HD	202	PEB	C4B-NB-C1B	-2.00	102.74	106.51
29	PB	202	PEB	CMA-C2A-C1A	-2.00	108.09	112.40
29	PM	202	PEB	CMA-C2A-C1A	-2.00	108.09	112.40
31	1P	1002	CYC	CBD-CAD-C3D	-2.00	109.20	112.62
29	GA	202	PEB	CAB-C3B-C2B	-2.00	124.15	127.88
29	GN	202	PEB	CAB-C3B-C2B	-2.00	124.15	127.88
29	M4	201	PEB	CMA-C2A-C1A	-2.00	108.09	112.40
29	D3	201	PEB	CHB-C4B-C3B	-2.00	120.70	125.32
29	DO	201	PEB	CHB-C4B-C3B	-2.00	120.70	125.32

There are no chirality outliers.

All (12797) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
29	A1	301	PEB	NB-C1B-CHA-C4A
29	A1	301	PEB	C2B-C1B-CHA-C4A
29	A1	302	PEB	ND-C1D-CHC-C4C
29	A1	302	PEB	NB-C1B-CHA-C4A
29	A1	302	PEB	C2B-C1B-CHA-C4A
29	A1	303	PEB	C4A-C3A-CAA-CBA
29	A1	303	PEB	NB-C1B-CHA-C4A
29	A1	303	PEB	C2B-C1B-CHA-C4A
29	D1	1002	PEB	C2A-C3A-CAA-CBA
29	D1	1002	PEB	C4A-C3A-CAA-CBA
29	D1	1002	PEB	NB-C1B-CHA-C4A
29	D1	1002	PEB	C2B-C1B-CHA-C4A
29	F1	1002	PEB	C2A-C3A-CAA-CBA
29	F1	1002	PEB	C4A-C3A-CAA-CBA
29	F1	1002	PEB	NB-C1B-CHA-C4A
29	F1	1002	PEB	C2B-C1B-CHA-C4A
29	H1	1002	PEB	C2A-C3A-CAA-CBA
29	H1	1002	PEB	C4A-C3A-CAA-CBA
29	H1	1002	PEB	NB-C1B-CHA-C4A
29	H1	1002	PEB	C2B-C1B-CHA-C4A
29	J1	1002	PEB	C2A-C3A-CAA-CBA
29	J1	1002	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	J1	1002	PEB	NB-C1B-CHA-C4A
29	J1	1002	PEB	C2B-C1B-CHA-C4A
29	L1	1002	PEB	C2A-C3A-CAA-CBA
29	L1	1002	PEB	C4A-C3A-CAA-CBA
29	L1	1002	PEB	NB-C1B-CHA-C4A
29	L1	1002	PEB	C2B-C1B-CHA-C4A
29	N1	1002	PEB	C2A-C3A-CAA-CBA
29	N1	1002	PEB	C4A-C3A-CAA-CBA
29	N1	1002	PEB	NB-C1B-CHA-C4A
29	N1	1002	PEB	C2B-C1B-CHA-C4A
29	O1	201	PEB	ND-C1D-CHC-C4C
29	O1	201	PEB	NB-C1B-CHA-C4A
29	O1	201	PEB	C2B-C1B-CHA-C4A
29	O1	202	PEB	NB-C1B-CHA-C4A
29	O1	202	PEB	C2B-C1B-CHA-C4A
29	P1	201	PEB	NB-C1B-CHA-C4A
29	P1	201	PEB	C2B-C1B-CHA-C4A
29	P1	202	PEB	NB-C1B-CHA-C4A
29	P1	202	PEB	C2B-C1B-CHA-C4A
29	P1	203	PEB	NB-C1B-CHA-C4A
29	P1	203	PEB	C2B-C1B-CHA-C4A
29	Q1	201	PEB	ND-C1D-CHC-C4C
29	Q1	201	PEB	NB-C1B-CHA-C4A
29	Q1	201	PEB	C2B-C1B-CHA-C4A
29	Q1	202	PEB	NB-C1B-CHA-C4A
29	Q1	202	PEB	C2B-C1B-CHA-C4A
29	R1	201	PEB	NB-C1B-CHA-C4A
29	R1	201	PEB	C2B-C1B-CHA-C4A
29	R1	202	PEB	NB-C1B-CHA-C4A
29	R1	202	PEB	C2B-C1B-CHA-C4A
29	R1	203	PEB	NB-C1B-CHA-C4A
29	R1	203	PEB	C2B-C1B-CHA-C4A
29	S1	201	PEB	ND-C1D-CHC-C4C
29	S1	201	PEB	NB-C1B-CHA-C4A
29	S1	201	PEB	C2B-C1B-CHA-C4A
29	S1	202	PEB	NB-C1B-CHA-C4A
29	S1	202	PEB	C2B-C1B-CHA-C4A
29	T1	201	PEB	NB-C1B-CHA-C4A
29	T1	201	PEB	C2B-C1B-CHA-C4A
29	T1	202	PEB	NB-C1B-CHA-C4A
29	T1	202	PEB	C2B-C1B-CHA-C4A
29	U1	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	U1	201	PEB	C2B-C1B-CHA-C4A
29	U1	202	PEB	ND-C1D-CHC-C4C
29	U1	202	PEB	NB-C1B-CHA-C4A
29	U1	202	PEB	C2B-C1B-CHA-C4A
29	U1	203	PEB	NB-C1B-CHA-C4A
29	U1	203	PEB	C2B-C1B-CHA-C4A
29	V1	201	PEB	NB-C1B-CHA-C4A
29	V1	201	PEB	C2B-C1B-CHA-C4A
29	V1	202	PEB	NB-C1B-CHA-C4A
29	V1	202	PEB	C2B-C1B-CHA-C4A
29	V1	203	PEB	NB-C1B-CHA-C4A
29	V1	203	PEB	C2B-C1B-CHA-C4A
29	W1	201	PEB	ND-C1D-CHC-C4C
29	W1	201	PEB	NB-C1B-CHA-C4A
29	W1	201	PEB	C2B-C1B-CHA-C4A
29	W1	202	PEB	NB-C1B-CHA-C4A
29	W1	202	PEB	C2B-C1B-CHA-C4A
29	Y1	201	PEB	NB-C1B-CHA-C4A
29	Y1	201	PEB	C2B-C1B-CHA-C4A
29	Y1	202	PEB	NB-C1B-CHA-C4A
29	Y1	202	PEB	C2B-C1B-CHA-C4A
29	Z1	201	PEB	NB-C1B-CHA-C4A
29	Z1	201	PEB	C2B-C1B-CHA-C4A
29	Z1	202	PEB	ND-C1D-CHC-C4C
29	Z1	202	PEB	NB-C1B-CHA-C4A
29	Z1	202	PEB	C2B-C1B-CHA-C4A
29	Z1	203	PEB	NB-C1B-CHA-C4A
29	Z1	203	PEB	C2B-C1B-CHA-C4A
29	a1	201	PEB	NB-C1B-CHA-C4A
29	a1	201	PEB	C2B-C1B-CHA-C4A
29	a1	202	PEB	NB-C1B-CHA-C4A
29	a1	202	PEB	C2B-C1B-CHA-C4A
29	a1	203	PEB	NB-C1B-CHA-C4A
29	a1	203	PEB	C2B-C1B-CHA-C4A
29	b1	201	PEB	ND-C1D-CHC-C4C
29	b1	201	PEB	NB-C1B-CHA-C4A
29	b1	201	PEB	C2B-C1B-CHA-C4A
29	b1	202	PEB	NB-C1B-CHA-C4A
29	b1	202	PEB	C2B-C1B-CHA-C4A
29	c1	201	PEB	NB-C1B-CHA-C4A
29	c1	201	PEB	C2B-C1B-CHA-C4A
29	c1	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	c1	202	PEB	C2B-C1B-CHA-C4A
29	c1	203	PEB	NB-C1B-CHA-C4A
29	c1	203	PEB	C2B-C1B-CHA-C4A
29	d1	201	PEB	ND-C1D-CHC-C4C
29	d1	201	PEB	NB-C1B-CHA-C4A
29	d1	201	PEB	C2B-C1B-CHA-C4A
29	d1	202	PEB	NB-C1B-CHA-C4A
29	d1	202	PEB	C2B-C1B-CHA-C4A
29	e1	201	PEB	NB-C1B-CHA-C4A
29	e1	201	PEB	C2B-C1B-CHA-C4A
29	e1	202	PEB	NB-C1B-CHA-C4A
29	e1	202	PEB	C2B-C1B-CHA-C4A
29	e1	203	PEB	NB-C1B-CHA-C4A
29	e1	203	PEB	C2B-C1B-CHA-C4A
29	f1	201	PEB	ND-C1D-CHC-C4C
29	f1	201	PEB	NB-C1B-CHA-C4A
29	f1	201	PEB	C2B-C1B-CHA-C4A
29	f1	202	PEB	NB-C1B-CHA-C4A
29	f1	202	PEB	C2B-C1B-CHA-C4A
29	g1	201	PEB	NB-C1B-CHA-C4A
29	g1	201	PEB	C2B-C1B-CHA-C4A
29	g1	202	PEB	NB-C1B-CHA-C4A
29	g1	202	PEB	C2B-C1B-CHA-C4A
29	g1	203	PEB	NB-C1B-CHA-C4A
29	g1	203	PEB	C2B-C1B-CHA-C4A
29	h1	201	PEB	ND-C1D-CHC-C4C
29	h1	201	PEB	NB-C1B-CHA-C4A
29	h1	201	PEB	C2B-C1B-CHA-C4A
29	h1	202	PEB	NB-C1B-CHA-C4A
29	h1	202	PEB	C2B-C1B-CHA-C4A
29	i1	201	PEB	NB-C1B-CHA-C4A
29	i1	201	PEB	C2B-C1B-CHA-C4A
29	i1	202	PEB	NB-C1B-CHA-C4A
29	i1	202	PEB	C2B-C1B-CHA-C4A
29	i1	203	PEB	NB-C1B-CHA-C4A
29	i1	203	PEB	C2B-C1B-CHA-C4A
29	j1	201	PEB	ND-C1D-CHC-C4C
29	j1	201	PEB	NB-C1B-CHA-C4A
29	j1	201	PEB	C2B-C1B-CHA-C4A
29	j1	202	PEB	NB-C1B-CHA-C4A
29	j1	202	PEB	C2B-C1B-CHA-C4A
29	j1	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	j1	203	PEB	C2B-C1B-CHA-C4A
29	k1	201	PEB	NB-C1B-CHA-C4A
29	k1	201	PEB	C2B-C1B-CHA-C4A
29	k1	202	PEB	NB-C1B-CHA-C4A
29	k1	202	PEB	C2B-C1B-CHA-C4A
29	k1	203	PEB	NB-C1B-CHA-C4A
29	k1	203	PEB	C2B-C1B-CHA-C4A
29	l1	201	PEB	ND-C1D-CHC-C4C
29	l1	201	PEB	NB-C1B-CHA-C4A
29	l1	201	PEB	C2B-C1B-CHA-C4A
29	l1	202	PEB	NB-C1B-CHA-C4A
29	l1	202	PEB	C2B-C1B-CHA-C4A
29	m1	201	PEB	NB-C1B-CHA-C4A
29	m1	201	PEB	C2B-C1B-CHA-C4A
29	m1	202	PEB	NB-C1B-CHA-C4A
29	m1	202	PEB	C2B-C1B-CHA-C4A
29	e2	401	PEB	C1C-C2C-CAC-CBC
29	e2	401	PEB	C3C-C2C-CAC-CBC
29	e2	401	PEB	C2C-CAC-CBC-CGC
29	e2	401	PEB	C4A-C3A-CAA-CBA
29	e2	401	PEB	NB-C1B-CHA-C4A
29	e2	401	PEB	C2B-C1B-CHA-C4A
29	e2	402	PEB	NB-C1B-CHA-C4A
29	e2	402	PEB	C2B-C1B-CHA-C4A
29	e2	402	PEB	C2B-C3B-CAB-CBB
29	e2	402	PEB	C4B-C3B-CAB-CBB
29	M2	201	PEB	C2A-C3A-CAA-CBA
29	M2	201	PEB	C4A-C3A-CAA-CBA
29	M2	201	PEB	NB-C1B-CHA-C4A
29	M2	201	PEB	C2B-C1B-CHA-C4A
29	M2	202	PEB	NB-C1B-CHA-C4A
29	M2	202	PEB	C2B-C1B-CHA-C4A
29	N2	201	PEB	NB-C1B-CHA-C4A
29	N2	201	PEB	C2B-C1B-CHA-C4A
29	N2	201	PEB	C2B-C3B-CAB-CBB
29	N2	201	PEB	C4B-C3B-CAB-CBB
29	N2	202	PEB	C2A-C3A-CAA-CBA
29	N2	202	PEB	C4A-C3A-CAA-CBA
29	N2	202	PEB	NB-C1B-CHA-C4A
29	N2	202	PEB	C2B-C1B-CHA-C4A
29	N2	203	PEB	ND-C1D-CHC-C4C
29	N2	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	N2	203	PEB	NC-C1C-CHB-C4B
29	N2	203	PEB	C2C-C1C-CHB-C4B
29	N2	203	PEB	C2A-C3A-CAA-CBA
29	N2	203	PEB	NB-C1B-CHA-C4A
29	N2	203	PEB	C2B-C1B-CHA-C4A
29	O2	201	PEB	C2A-C3A-CAA-CBA
29	O2	201	PEB	C4A-C3A-CAA-CBA
29	O2	201	PEB	NB-C1B-CHA-C4A
29	O2	201	PEB	C2B-C1B-CHA-C4A
29	O2	202	PEB	NC-C1C-CHB-C4B
29	O2	202	PEB	NB-C1B-CHA-C4A
29	O2	202	PEB	C2B-C1B-CHA-C4A
29	P2	201	PEB	C2A-C3A-CAA-CBA
29	P2	201	PEB	C4A-C3A-CAA-CBA
29	P2	201	PEB	NB-C1B-CHA-C4A
29	P2	201	PEB	C2B-C1B-CHA-C4A
29	P2	202	PEB	ND-C1D-CHC-C4C
29	P2	202	PEB	C2D-C1D-CHC-C4C
29	P2	202	PEB	NC-C1C-CHB-C4B
29	P2	202	PEB	C2C-C1C-CHB-C4B
29	P2	202	PEB	C2A-C3A-CAA-CBA
29	P2	202	PEB	NB-C1B-CHA-C4A
29	P2	202	PEB	C2B-C1B-CHA-C4A
29	Q2	201	PEB	C2A-C3A-CAA-CBA
29	Q2	201	PEB	C4A-C3A-CAA-CBA
29	Q2	201	PEB	NB-C1B-CHA-C4A
29	Q2	201	PEB	C2B-C1B-CHA-C4A
29	Q2	202	PEB	NC-C1C-CHB-C4B
29	Q2	202	PEB	NB-C1B-CHA-C4A
29	Q2	202	PEB	C2B-C1B-CHA-C4A
29	R2	201	PEB	NB-C1B-CHA-C4A
29	R2	201	PEB	C2B-C1B-CHA-C4A
29	R2	201	PEB	C2B-C3B-CAB-CBB
29	R2	201	PEB	C4B-C3B-CAB-CBB
29	R2	202	PEB	C2A-C3A-CAA-CBA
29	R2	202	PEB	C4A-C3A-CAA-CBA
29	R2	202	PEB	NB-C1B-CHA-C4A
29	R2	202	PEB	C2B-C1B-CHA-C4A
29	R2	203	PEB	ND-C1D-CHC-C4C
29	R2	203	PEB	C2D-C1D-CHC-C4C
29	R2	203	PEB	NC-C1C-CHB-C4B
29	R2	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	R2	203	PEB	C2A-C3A-CAA-CBA
29	R2	203	PEB	NB-C1B-CHA-C4A
29	R2	203	PEB	C2B-C1B-CHA-C4A
29	S2	201	PEB	NB-C1B-CHA-C4A
29	S2	201	PEB	C2B-C1B-CHA-C4A
29	S2	202	PEB	NB-C1B-CHA-C4A
29	S2	202	PEB	C2B-C1B-CHA-C4A
29	T2	201	PEB	NB-C1B-CHA-C4A
29	T2	201	PEB	C2B-C1B-CHA-C4A
29	T2	201	PEB	C2B-C3B-CAB-CBB
29	T2	201	PEB	C4B-C3B-CAB-CBB
29	T2	202	PEB	C2A-C3A-CAA-CBA
29	T2	202	PEB	C4A-C3A-CAA-CBA
29	T2	202	PEB	NB-C1B-CHA-C4A
29	T2	202	PEB	C2B-C1B-CHA-C4A
29	T2	203	PEB	ND-C1D-CHC-C4C
29	T2	203	PEB	C2D-C1D-CHC-C4C
29	T2	203	PEB	NC-C1C-CHB-C4B
29	T2	203	PEB	C2C-C1C-CHB-C4B
29	T2	203	PEB	C2A-C3A-CAA-CBA
29	T2	203	PEB	NB-C1B-CHA-C4A
29	T2	203	PEB	C2B-C1B-CHA-C4A
29	U2	201	PEB	C2A-C3A-CAA-CBA
29	U2	201	PEB	C4A-C3A-CAA-CBA
29	U2	201	PEB	NB-C1B-CHA-C4A
29	U2	201	PEB	C2B-C1B-CHA-C4A
29	U2	202	PEB	NB-C1B-CHA-C4A
29	U2	202	PEB	C2B-C1B-CHA-C4A
29	V2	201	PEB	NB-C1B-CHA-C4A
29	V2	201	PEB	C2B-C1B-CHA-C4A
29	V2	201	PEB	C2B-C3B-CAB-CBB
29	V2	201	PEB	C4B-C3B-CAB-CBB
29	V2	202	PEB	C2A-C3A-CAA-CBA
29	V2	202	PEB	C4A-C3A-CAA-CBA
29	V2	202	PEB	NB-C1B-CHA-C4A
29	V2	202	PEB	C2B-C1B-CHA-C4A
29	V2	203	PEB	ND-C1D-CHC-C4C
29	V2	203	PEB	C2D-C1D-CHC-C4C
29	V2	203	PEB	NC-C1C-CHB-C4B
29	V2	203	PEB	C2C-C1C-CHB-C4B
29	V2	203	PEB	C2A-C3A-CAA-CBA
29	V2	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	V2	203	PEB	C2B-C1B-CHA-C4A
29	W2	201	PEB	C2A-C3A-CAA-CBA
29	W2	201	PEB	C4A-C3A-CAA-CBA
29	W2	201	PEB	NB-C1B-CHA-C4A
29	W2	201	PEB	C2B-C1B-CHA-C4A
29	W2	202	PEB	NB-C1B-CHA-C4A
29	W2	202	PEB	C2B-C1B-CHA-C4A
29	X2	201	PEB	C2A-C3A-CAA-CBA
29	X2	201	PEB	C4A-C3A-CAA-CBA
29	X2	201	PEB	NB-C1B-CHA-C4A
29	X2	201	PEB	C2B-C1B-CHA-C4A
29	X2	202	PEB	ND-C1D-CHC-C4C
29	X2	202	PEB	C2D-C1D-CHC-C4C
29	X2	202	PEB	NC-C1C-CHB-C4B
29	X2	202	PEB	C2C-C1C-CHB-C4B
29	X2	202	PEB	C2A-C3A-CAA-CBA
29	X2	202	PEB	NB-C1B-CHA-C4A
29	X2	202	PEB	C2B-C1B-CHA-C4A
29	A3	201	PEB	NB-C1B-CHA-C4A
29	A3	201	PEB	C2B-C1B-CHA-C4A
29	A3	202	PEB	C2C-CAC-CBC-CGC
29	A3	202	PEB	C2A-C3A-CAA-CBA
29	A3	202	PEB	C4A-C3A-CAA-CBA
29	A3	202	PEB	NB-C1B-CHA-C4A
29	A3	202	PEB	C2B-C1B-CHA-C4A
29	B3	201	PEB	NB-C1B-CHA-C4A
29	B3	201	PEB	C2B-C1B-CHA-C4A
29	B3	202	PEB	C2C-CAC-CBC-CGC
29	B3	202	PEB	C2A-C3A-CAA-CBA
29	B3	202	PEB	C4A-C3A-CAA-CBA
29	B3	202	PEB	NB-C1B-CHA-C4A
29	B3	202	PEB	C2B-C1B-CHA-C4A
29	B3	203	PEB	ND-C1D-CHC-C4C
29	B3	203	PEB	C2D-C1D-CHC-C4C
29	B3	203	PEB	NC-C1C-CHB-C4B
29	B3	203	PEB	C2C-C1C-CHB-C4B
29	B3	203	PEB	C2A-C3A-CAA-CBA
29	B3	203	PEB	C4A-C3A-CAA-CBA
29	B3	203	PEB	NB-C1B-CHA-C4A
29	B3	203	PEB	C2B-C1B-CHA-C4A
29	C3	201	PEB	NB-C1B-CHA-C4A
29	C3	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	C3	202	PEB	C2C-CAC-CBC-CGC
29	C3	202	PEB	C2A-C3A-CAA-CBA
29	C3	202	PEB	C4A-C3A-CAA-CBA
29	C3	202	PEB	NB-C1B-CHA-C4A
29	C3	202	PEB	C2B-C1B-CHA-C4A
29	D3	201	PEB	NB-C1B-CHA-C4A
29	D3	201	PEB	C2B-C1B-CHA-C4A
29	D3	202	PEB	C2A-C3A-CAA-CBA
29	D3	202	PEB	C4A-C3A-CAA-CBA
29	D3	202	PEB	NB-C1B-CHA-C4A
29	D3	202	PEB	C2B-C1B-CHA-C4A
29	D3	203	PEB	ND-C1D-CHC-C4C
29	D3	203	PEB	C2D-C1D-CHC-C4C
29	D3	203	PEB	NC-C1C-CHB-C4B
29	D3	203	PEB	C2C-C1C-CHB-C4B
29	D3	203	PEB	C2A-C3A-CAA-CBA
29	D3	203	PEB	C4A-C3A-CAA-CBA
29	D3	203	PEB	NB-C1B-CHA-C4A
29	D3	203	PEB	C2B-C1B-CHA-C4A
29	E3	201	PEB	NB-C1B-CHA-C4A
29	E3	201	PEB	C2B-C1B-CHA-C4A
29	E3	202	PEB	C2C-CAC-CBC-CGC
29	E3	202	PEB	C2A-C3A-CAA-CBA
29	E3	202	PEB	C4A-C3A-CAA-CBA
29	E3	202	PEB	NB-C1B-CHA-C4A
29	E3	202	PEB	C2B-C1B-CHA-C4A
29	F3	201	PEB	NB-C1B-CHA-C4A
29	F3	201	PEB	C2B-C1B-CHA-C4A
29	F3	202	PEB	C2C-CAC-CBC-CGC
29	F3	202	PEB	C2A-C3A-CAA-CBA
29	F3	202	PEB	C4A-C3A-CAA-CBA
29	F3	202	PEB	NB-C1B-CHA-C4A
29	F3	202	PEB	C2B-C1B-CHA-C4A
29	F3	203	PEB	ND-C1D-CHC-C4C
29	F3	203	PEB	C2D-C1D-CHC-C4C
29	F3	203	PEB	NC-C1C-CHB-C4B
29	F3	203	PEB	C2C-C1C-CHB-C4B
29	F3	203	PEB	C2A-C3A-CAA-CBA
29	F3	203	PEB	C4A-C3A-CAA-CBA
29	F3	203	PEB	NB-C1B-CHA-C4A
29	F3	203	PEB	C2B-C1B-CHA-C4A
29	G3	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	G3	201	PEB	C2B-C1B-CHA-C4A
29	G3	202	PEB	C2C-CAC-CBC-CGC
29	G3	202	PEB	C2A-C3A-CAA-CBA
29	G3	202	PEB	C4A-C3A-CAA-CBA
29	G3	202	PEB	NB-C1B-CHA-C4A
29	G3	202	PEB	C2B-C1B-CHA-C4A
29	H3	201	PEB	NB-C1B-CHA-C4A
29	H3	201	PEB	C2B-C1B-CHA-C4A
29	H3	202	PEB	C2C-CAC-CBC-CGC
29	H3	202	PEB	C2A-C3A-CAA-CBA
29	H3	202	PEB	C4A-C3A-CAA-CBA
29	H3	202	PEB	NB-C1B-CHA-C4A
29	H3	202	PEB	C2B-C1B-CHA-C4A
29	H3	203	PEB	ND-C1D-CHC-C4C
29	H3	203	PEB	C2D-C1D-CHC-C4C
29	H3	203	PEB	NC-C1C-CHB-C4B
29	H3	203	PEB	C2C-C1C-CHB-C4B
29	H3	203	PEB	C2A-C3A-CAA-CBA
29	H3	203	PEB	C4A-C3A-CAA-CBA
29	H3	203	PEB	NB-C1B-CHA-C4A
29	H3	203	PEB	C2B-C1B-CHA-C4A
29	I3	201	PEB	NB-C1B-CHA-C4A
29	I3	201	PEB	C2B-C1B-CHA-C4A
29	I3	202	PEB	C2C-CAC-CBC-CGC
29	I3	202	PEB	C2A-C3A-CAA-CBA
29	I3	202	PEB	C4A-C3A-CAA-CBA
29	I3	202	PEB	NB-C1B-CHA-C4A
29	I3	202	PEB	C2B-C1B-CHA-C4A
29	I3	203	PEB	C2C-CAC-CBC-CGC
29	I3	203	PEB	C2A-C3A-CAA-CBA
29	I3	203	PEB	C4A-C3A-CAA-CBA
29	I3	203	PEB	NB-C1B-CHA-C4A
29	I3	203	PEB	C2B-C1B-CHA-C4A
29	J3	201	PEB	NB-C1B-CHA-C4A
29	J3	201	PEB	C2B-C1B-CHA-C4A
29	J3	202	PEB	C2C-CAC-CBC-CGC
29	J3	202	PEB	C2A-C3A-CAA-CBA
29	J3	202	PEB	C4A-C3A-CAA-CBA
29	J3	202	PEB	NB-C1B-CHA-C4A
29	J3	202	PEB	C2B-C1B-CHA-C4A
29	J3	203	PEB	ND-C1D-CHC-C4C
29	J3	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	J3	203	PEB	NC-C1C-CHB-C4B
29	J3	203	PEB	C2C-C1C-CHB-C4B
29	J3	203	PEB	C2A-C3A-CAA-CBA
29	J3	203	PEB	C4A-C3A-CAA-CBA
29	J3	203	PEB	NB-C1B-CHA-C4A
29	J3	203	PEB	C2B-C1B-CHA-C4A
29	K3	201	PEB	NB-C1B-CHA-C4A
29	K3	201	PEB	C2B-C1B-CHA-C4A
29	K3	202	PEB	C2C-CAC-CBC-CGC
29	K3	202	PEB	C2A-C3A-CAA-CBA
29	K3	202	PEB	C4A-C3A-CAA-CBA
29	K3	202	PEB	NB-C1B-CHA-C4A
29	K3	202	PEB	C2B-C1B-CHA-C4A
29	L3	201	PEB	NB-C1B-CHA-C4A
29	L3	201	PEB	C2B-C1B-CHA-C4A
29	L3	202	PEB	ND-C1D-CHC-C4C
29	L3	202	PEB	C2D-C1D-CHC-C4C
29	L3	202	PEB	NC-C1C-CHB-C4B
29	L3	202	PEB	C2C-C1C-CHB-C4B
29	L3	202	PEB	C2A-C3A-CAA-CBA
29	L3	202	PEB	C4A-C3A-CAA-CBA
29	L3	202	PEB	NB-C1B-CHA-C4A
29	L3	202	PEB	C2B-C1B-CHA-C4A
29	M3	201	PEB	NB-C1B-CHA-C4A
29	M3	201	PEB	C2B-C1B-CHA-C4A
29	M3	202	PEB	NB-C1B-CHA-C4A
29	M3	202	PEB	C2B-C1B-CHA-C4A
29	M3	203	PEB	ND-C1D-CHC-C4C
29	M3	203	PEB	C2D-C1D-CHC-C4C
29	M3	203	PEB	NC-C1C-CHB-C4B
29	M3	203	PEB	C2C-C1C-CHB-C4B
29	M3	203	PEB	NB-C1B-CHA-C4A
29	M3	203	PEB	C2B-C1B-CHA-C4A
29	N3	201	PEB	NB-C1B-CHA-C4A
29	N3	201	PEB	C2B-C1B-CHA-C4A
29	N3	202	PEB	NB-C1B-CHA-C4A
29	N3	202	PEB	C2B-C1B-CHA-C4A
29	N3	203	PEB	ND-C1D-CHC-C4C
29	N3	203	PEB	C2D-C1D-CHC-C4C
29	N3	203	PEB	NC-C1C-CHB-C4B
29	N3	203	PEB	C2C-C1C-CHB-C4B
29	N3	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	N3	203	PEB	C2B-C1B-CHA-C4A
29	B4	201	PEB	ND-C1D-CHC-C4C
29	B4	201	PEB	C2D-C1D-CHC-C4C
29	B4	201	PEB	NC-C1C-CHB-C4B
29	B4	201	PEB	NB-C1B-CHA-C4A
29	B4	201	PEB	C2B-C1B-CHA-C4A
29	B4	202	PEB	NC-C1C-CHB-C4B
29	B4	202	PEB	C2C-C1C-CHB-C4B
29	B4	202	PEB	NB-C1B-CHA-C4A
29	B4	202	PEB	C2B-C1B-CHA-C4A
29	C4	201	PEB	NB-C1B-CHA-C4A
29	C4	201	PEB	C2B-C1B-CHA-C4A
29	C4	202	PEB	NC-C1C-CHB-C4B
29	C4	202	PEB	C2C-CAC-CBC-CGC
29	C4	202	PEB	C4A-C3A-CAA-CBA
29	C4	202	PEB	NB-C1B-CHA-C4A
29	C4	202	PEB	C2B-C1B-CHA-C4A
29	C4	203	PEB	NC-C1C-CHB-C4B
29	C4	203	PEB	C2C-C1C-CHB-C4B
29	C4	203	PEB	NB-C1B-CHA-C4A
29	C4	203	PEB	C2B-C1B-CHA-C4A
29	C4	203	PEB	C3B-CAB-CBB-CGB
29	D4	201	PEB	ND-C1D-CHC-C4C
29	D4	201	PEB	C2D-C1D-CHC-C4C
29	D4	201	PEB	NC-C1C-CHB-C4B
29	D4	201	PEB	NB-C1B-CHA-C4A
29	D4	201	PEB	C2B-C1B-CHA-C4A
29	D4	202	PEB	NC-C1C-CHB-C4B
29	D4	202	PEB	C2C-C1C-CHB-C4B
29	D4	202	PEB	NB-C1B-CHA-C4A
29	D4	202	PEB	C2B-C1B-CHA-C4A
29	E4	201	PEB	NB-C1B-CHA-C4A
29	E4	201	PEB	C2B-C1B-CHA-C4A
29	E4	202	PEB	NC-C1C-CHB-C4B
29	E4	202	PEB	C2C-CAC-CBC-CGC
29	E4	202	PEB	C4A-C3A-CAA-CBA
29	E4	202	PEB	NB-C1B-CHA-C4A
29	E4	202	PEB	C2B-C1B-CHA-C4A
29	E4	203	PEB	NC-C1C-CHB-C4B
29	E4	203	PEB	C2C-C1C-CHB-C4B
29	E4	203	PEB	NB-C1B-CHA-C4A
29	E4	203	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	E4	203	PEB	C3B-CAB-CBB-CGB
29	F4	201	PEB	ND-C1D-CHC-C4C
29	F4	201	PEB	C2D-C1D-CHC-C4C
29	F4	201	PEB	NB-C1B-CHA-C4A
29	F4	201	PEB	C2B-C1B-CHA-C4A
29	F4	202	PEB	NC-C1C-CHB-C4B
29	F4	202	PEB	C2C-C1C-CHB-C4B
29	F4	202	PEB	NB-C1B-CHA-C4A
29	F4	202	PEB	C2B-C1B-CHA-C4A
29	G4	201	PEB	NB-C1B-CHA-C4A
29	G4	201	PEB	C2B-C1B-CHA-C4A
29	G4	202	PEB	NC-C1C-CHB-C4B
29	G4	202	PEB	C2C-CAC-CBC-CGC
29	G4	202	PEB	C4A-C3A-CAA-CBA
29	G4	202	PEB	NB-C1B-CHA-C4A
29	G4	202	PEB	C2B-C1B-CHA-C4A
29	G4	203	PEB	NC-C1C-CHB-C4B
29	G4	203	PEB	C2C-C1C-CHB-C4B
29	G4	203	PEB	NB-C1B-CHA-C4A
29	G4	203	PEB	C2B-C1B-CHA-C4A
29	G4	203	PEB	C3B-CAB-CBB-CGB
29	H4	201	PEB	ND-C1D-CHC-C4C
29	H4	201	PEB	C2D-C1D-CHC-C4C
29	H4	201	PEB	NC-C1C-CHB-C4B
29	H4	201	PEB	NB-C1B-CHA-C4A
29	H4	201	PEB	C2B-C1B-CHA-C4A
29	H4	202	PEB	NC-C1C-CHB-C4B
29	H4	202	PEB	C2C-C1C-CHB-C4B
29	H4	202	PEB	NB-C1B-CHA-C4A
29	H4	202	PEB	C2B-C1B-CHA-C4A
29	I4	201	PEB	NB-C1B-CHA-C4A
29	I4	201	PEB	C2B-C1B-CHA-C4A
29	I4	202	PEB	NC-C1C-CHB-C4B
29	I4	202	PEB	C2C-CAC-CBC-CGC
29	I4	202	PEB	C4A-C3A-CAA-CBA
29	I4	202	PEB	NB-C1B-CHA-C4A
29	I4	202	PEB	C2B-C1B-CHA-C4A
29	I4	203	PEB	ND-C1D-CHC-C4C
29	I4	203	PEB	C2D-C1D-CHC-C4C
29	I4	203	PEB	NB-C1B-CHA-C4A
29	I4	203	PEB	C2B-C1B-CHA-C4A
29	J4	201	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	J4	201	PEB	C2D-C1D-CHC-C4C
29	J4	201	PEB	NC-C1C-CHB-C4B
29	J4	201	PEB	NB-C1B-CHA-C4A
29	J4	201	PEB	C2B-C1B-CHA-C4A
29	J4	202	PEB	NC-C1C-CHB-C4B
29	J4	202	PEB	C2C-C1C-CHB-C4B
29	J4	202	PEB	NB-C1B-CHA-C4A
29	J4	202	PEB	C2B-C1B-CHA-C4A
29	K4	201	PEB	NB-C1B-CHA-C4A
29	K4	201	PEB	C2B-C1B-CHA-C4A
29	K4	202	PEB	NC-C1C-CHB-C4B
29	K4	202	PEB	C2C-CAC-CBC-CGC
29	K4	202	PEB	C4A-C3A-CAA-CBA
29	K4	202	PEB	NB-C1B-CHA-C4A
29	K4	202	PEB	C2B-C1B-CHA-C4A
29	K4	203	PEB	NC-C1C-CHB-C4B
29	K4	203	PEB	C2C-C1C-CHB-C4B
29	K4	203	PEB	NB-C1B-CHA-C4A
29	K4	203	PEB	C2B-C1B-CHA-C4A
29	K4	203	PEB	C3B-CAB-CBB-CGB
29	L4	201	PEB	ND-C1D-CHC-C4C
29	L4	201	PEB	C2D-C1D-CHC-C4C
29	L4	201	PEB	NC-C1C-CHB-C4B
29	L4	201	PEB	NB-C1B-CHA-C4A
29	L4	201	PEB	C2B-C1B-CHA-C4A
29	L4	202	PEB	NC-C1C-CHB-C4B
29	L4	202	PEB	C2C-C1C-CHB-C4B
29	L4	202	PEB	NB-C1B-CHA-C4A
29	L4	202	PEB	C2B-C1B-CHA-C4A
29	M4	201	PEB	NB-C1B-CHA-C4A
29	M4	201	PEB	C2B-C1B-CHA-C4A
29	M4	202	PEB	NC-C1C-CHB-C4B
29	M4	202	PEB	C2C-CAC-CBC-CGC
29	M4	202	PEB	C4A-C3A-CAA-CBA
29	M4	202	PEB	NB-C1B-CHA-C4A
29	M4	202	PEB	C2B-C1B-CHA-C4A
29	M4	203	PEB	NC-C1C-CHB-C4B
29	M4	203	PEB	C2C-C1C-CHB-C4B
29	M4	203	PEB	C2A-C3A-CAA-CBA
29	M4	203	PEB	NB-C1B-CHA-C4A
29	M4	203	PEB	C2B-C1B-CHA-C4A
29	B5	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	B5	201	PEB	C2B-C1B-CHA-C4A
29	B5	202	PEB	C2C-CAC-CBC-CGC
29	B5	202	PEB	C2A-C3A-CAA-CBA
29	B5	202	PEB	C4A-C3A-CAA-CBA
29	B5	202	PEB	NB-C1B-CHA-C4A
29	B5	202	PEB	C2B-C1B-CHA-C4A
29	B5	203	PEB	ND-C1D-CHC-C4C
29	B5	203	PEB	C2D-C1D-CHC-C4C
29	B5	203	PEB	NC-C1C-CHB-C4B
29	B5	203	PEB	C2C-C1C-CHB-C4B
29	B5	203	PEB	NB-C1B-CHA-C4A
29	B5	203	PEB	C2B-C1B-CHA-C4A
29	F5	201	PEB	NB-C1B-CHA-C4A
29	F5	201	PEB	C2B-C1B-CHA-C4A
29	F5	202	PEB	C2C-CAC-CBC-CGC
29	F5	202	PEB	C2A-C3A-CAA-CBA
29	F5	202	PEB	C4A-C3A-CAA-CBA
29	F5	202	PEB	NB-C1B-CHA-C4A
29	F5	202	PEB	C2B-C1B-CHA-C4A
29	F5	203	PEB	ND-C1D-CHC-C4C
29	F5	203	PEB	C2D-C1D-CHC-C4C
29	F5	203	PEB	NC-C1C-CHB-C4B
29	F5	203	PEB	C2C-C1C-CHB-C4B
29	F5	203	PEB	NB-C1B-CHA-C4A
29	F5	203	PEB	C2B-C1B-CHA-C4A
29	G5	201	PEB	NB-C1B-CHA-C4A
29	G5	201	PEB	C2B-C1B-CHA-C4A
29	G5	202	PEB	C2C-CAC-CBC-CGC
29	G5	202	PEB	C2A-C3A-CAA-CBA
29	G5	202	PEB	C4A-C3A-CAA-CBA
29	G5	202	PEB	NB-C1B-CHA-C4A
29	G5	202	PEB	C2B-C1B-CHA-C4A
29	G5	203	PEB	ND-C1D-CHC-C4C
29	G5	203	PEB	C2D-C1D-CHC-C4C
29	G5	203	PEB	NC-C1C-CHB-C4B
29	G5	203	PEB	C2C-C1C-CHB-C4B
29	G5	203	PEB	NB-C1B-CHA-C4A
29	G5	203	PEB	C2B-C1B-CHA-C4A
29	H5	201	PEB	NB-C1B-CHA-C4A
29	H5	201	PEB	C2B-C1B-CHA-C4A
29	H5	202	PEB	C2C-CAC-CBC-CGC
29	H5	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	H5	202	PEB	C4A-C3A-CAA-CBA
29	H5	202	PEB	NB-C1B-CHA-C4A
29	H5	202	PEB	C2B-C1B-CHA-C4A
29	H5	203	PEB	ND-C1D-CHC-C4C
29	H5	203	PEB	C2D-C1D-CHC-C4C
29	H5	203	PEB	NC-C1C-CHB-C4B
29	H5	203	PEB	C2C-C1C-CHB-C4B
29	H5	203	PEB	NB-C1B-CHA-C4A
29	H5	203	PEB	C2B-C1B-CHA-C4A
29	I5	201	PEB	NB-C1B-CHA-C4A
29	I5	201	PEB	C2B-C1B-CHA-C4A
29	I5	202	PEB	C4A-C3A-CAA-CBA
29	I5	202	PEB	NB-C1B-CHA-C4A
29	I5	202	PEB	C2B-C1B-CHA-C4A
29	I5	203	PEB	NC-C1C-CHB-C4B
29	I5	203	PEB	C2C-C1C-CHB-C4B
29	I5	203	PEB	NB-C1B-CHA-C4A
29	I5	203	PEB	C2B-C1B-CHA-C4A
29	J5	201	PEB	C2B-C1B-CHA-C4A
29	J5	202	PEB	C1C-C2C-CAC-CBC
29	J5	202	PEB	C3C-C2C-CAC-CBC
29	J5	202	PEB	C2A-C3A-CAA-CBA
29	J5	202	PEB	NB-C1B-CHA-C4A
29	J5	202	PEB	C2B-C1B-CHA-C4A
29	K5	201	PEB	NB-C1B-CHA-C4A
29	K5	201	PEB	C2B-C1B-CHA-C4A
29	K5	202	PEB	C4A-C3A-CAA-CBA
29	K5	202	PEB	NB-C1B-CHA-C4A
29	K5	202	PEB	C2B-C1B-CHA-C4A
29	K5	203	PEB	NC-C1C-CHB-C4B
29	K5	203	PEB	C2C-C1C-CHB-C4B
29	K5	203	PEB	NB-C1B-CHA-C4A
29	K5	203	PEB	C2B-C1B-CHA-C4A
29	L5	201	PEB	NB-C1B-CHA-C4A
29	L5	201	PEB	C2B-C1B-CHA-C4A
29	L5	202	PEB	C2C-CAC-CBC-CGC
29	L5	202	PEB	C2A-C3A-CAA-CBA
29	L5	202	PEB	C4A-C3A-CAA-CBA
29	L5	202	PEB	NB-C1B-CHA-C4A
29	L5	202	PEB	C2B-C1B-CHA-C4A
29	L5	203	PEB	ND-C1D-CHC-C4C
29	L5	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	L5	203	PEB	NC-C1C-CHB-C4B
29	L5	203	PEB	C2C-C1C-CHB-C4B
29	L5	203	PEB	NB-C1B-CHA-C4A
29	L5	203	PEB	C2B-C1B-CHA-C4A
29	A5	201	PEB	NB-C1B-CHA-C4A
29	A5	201	PEB	C2B-C1B-CHA-C4A
29	A5	202	PEB	C4A-C3A-CAA-CBA
29	A5	202	PEB	NB-C1B-CHA-C4A
29	A5	202	PEB	C2B-C1B-CHA-C4A
29	A5	203	PEB	NC-C1C-CHB-C4B
29	A5	203	PEB	C2C-C1C-CHB-C4B
29	A5	203	PEB	NB-C1B-CHA-C4A
29	A5	203	PEB	C2B-C1B-CHA-C4A
29	C5	201	PEB	NB-C1B-CHA-C4A
29	C5	201	PEB	C2B-C1B-CHA-C4A
29	C5	202	PEB	C4A-C3A-CAA-CBA
29	C5	202	PEB	NB-C1B-CHA-C4A
29	C5	202	PEB	C2B-C1B-CHA-C4A
29	C5	203	PEB	NC-C1C-CHB-C4B
29	C5	203	PEB	C2C-C1C-CHB-C4B
29	C5	203	PEB	NB-C1B-CHA-C4A
29	C5	203	PEB	C2B-C1B-CHA-C4A
29	A7	301	PEB	C2C-CAC-CBC-CGC
29	A7	301	PEB	C4A-C3A-CAA-CBA
29	A7	301	PEB	NB-C1B-CHA-C4A
29	A7	301	PEB	C2B-C1B-CHA-C4A
29	A7	304	PEB	NB-C1B-CHA-C4A
29	A7	304	PEB	C2B-C1B-CHA-C4A
29	A7	305	PEB	NB-C1B-CHA-C4A
29	A7	305	PEB	C2B-C1B-CHA-C4A
29	D7	1002	PEB	NC-C1C-CHB-C4B
29	D7	1002	PEB	C2A-C3A-CAA-CBA
29	D7	1002	PEB	C4A-C3A-CAA-CBA
29	D7	1002	PEB	NB-C1B-CHA-C4A
29	D7	1002	PEB	C2B-C1B-CHA-C4A
29	F7	1002	PEB	NC-C1C-CHB-C4B
29	F7	1002	PEB	C2A-C3A-CAA-CBA
29	F7	1002	PEB	C4A-C3A-CAA-CBA
29	F7	1002	PEB	NB-C1B-CHA-C4A
29	F7	1002	PEB	C2B-C1B-CHA-C4A
29	H7	1002	PEB	NC-C1C-CHB-C4B
29	H7	1002	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	H7	1002	PEB	C4A-C3A-CAA-CBA
29	H7	1002	PEB	NB-C1B-CHA-C4A
29	H7	1002	PEB	C2B-C1B-CHA-C4A
29	J7	1002	PEB	NC-C1C-CHB-C4B
29	J7	1002	PEB	C2A-C3A-CAA-CBA
29	J7	1002	PEB	C4A-C3A-CAA-CBA
29	J7	1002	PEB	NB-C1B-CHA-C4A
29	J7	1002	PEB	C2B-C1B-CHA-C4A
29	L7	1002	PEB	NC-C1C-CHB-C4B
29	L7	1002	PEB	C2A-C3A-CAA-CBA
29	L7	1002	PEB	C4A-C3A-CAA-CBA
29	L7	1002	PEB	NB-C1B-CHA-C4A
29	L7	1002	PEB	C2B-C1B-CHA-C4A
29	N7	1002	PEB	NC-C1C-CHB-C4B
29	N7	1002	PEB	C2A-C3A-CAA-CBA
29	N7	1002	PEB	C4A-C3A-CAA-CBA
29	N7	1002	PEB	NB-C1B-CHA-C4A
29	N7	1002	PEB	C2B-C1B-CHA-C4A
29	O7	201	PEB	C4A-C3A-CAA-CBA
29	O7	201	PEB	NB-C1B-CHA-C4A
29	O7	201	PEB	C2B-C1B-CHA-C4A
29	O7	202	PEB	ND-C1D-CHC-C4C
29	O7	202	PEB	C2D-C1D-CHC-C4C
29	O7	202	PEB	NB-C1B-CHA-C4A
29	O7	202	PEB	C2B-C1B-CHA-C4A
29	P7	201	PEB	NB-C1B-CHA-C4A
29	P7	201	PEB	C2B-C1B-CHA-C4A
29	P7	202	PEB	ND-C1D-CHC-C4C
29	P7	202	PEB	C2D-C1D-CHC-C4C
29	P7	202	PEB	NB-C1B-CHA-C4A
29	P7	202	PEB	C2B-C1B-CHA-C4A
29	P7	203	PEB	NC-C1C-CHB-C4B
29	P7	203	PEB	C2C-C1C-CHB-C4B
29	P7	203	PEB	NB-C1B-CHA-C4A
29	P7	203	PEB	C2B-C1B-CHA-C4A
29	P7	203	PEB	C2B-C3B-CAB-CBB
29	P7	203	PEB	C4B-C3B-CAB-CBB
29	Q7	201	PEB	C4A-C3A-CAA-CBA
29	Q7	201	PEB	NB-C1B-CHA-C4A
29	Q7	201	PEB	C2B-C1B-CHA-C4A
29	Q7	202	PEB	ND-C1D-CHC-C4C
29	Q7	202	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	Q7	202	PEB	NB-C1B-CHA-C4A
29	Q7	202	PEB	C2B-C1B-CHA-C4A
29	R7	201	PEB	NB-C1B-CHA-C4A
29	R7	201	PEB	C2B-C1B-CHA-C4A
29	R7	202	PEB	ND-C1D-CHC-C4C
29	R7	202	PEB	C2D-C1D-CHC-C4C
29	R7	202	PEB	NB-C1B-CHA-C4A
29	R7	202	PEB	C2B-C1B-CHA-C4A
29	R7	203	PEB	NC-C1C-CHB-C4B
29	R7	203	PEB	C2C-C1C-CHB-C4B
29	R7	203	PEB	NB-C1B-CHA-C4A
29	R7	203	PEB	C2B-C1B-CHA-C4A
29	R7	203	PEB	C2B-C3B-CAB-CBB
29	R7	203	PEB	C4B-C3B-CAB-CBB
29	S7	201	PEB	C4A-C3A-CAA-CBA
29	S7	201	PEB	NB-C1B-CHA-C4A
29	S7	201	PEB	C2B-C1B-CHA-C4A
29	S7	202	PEB	ND-C1D-CHC-C4C
29	S7	202	PEB	C2D-C1D-CHC-C4C
29	S7	202	PEB	NB-C1B-CHA-C4A
29	S7	202	PEB	C2B-C1B-CHA-C4A
29	T7	201	PEB	NB-C1B-CHA-C4A
29	T7	201	PEB	C2B-C1B-CHA-C4A
29	T7	202	PEB	ND-C1D-CHC-C4C
29	T7	202	PEB	C2D-C1D-CHC-C4C
29	T7	202	PEB	NB-C1B-CHA-C4A
29	T7	202	PEB	C2B-C1B-CHA-C4A
29	T7	203	PEB	NC-C1C-CHB-C4B
29	T7	203	PEB	C2C-C1C-CHB-C4B
29	T7	203	PEB	NB-C1B-CHA-C4A
29	T7	203	PEB	C2B-C1B-CHA-C4A
29	T7	203	PEB	C2B-C3B-CAB-CBB
29	T7	203	PEB	C4B-C3B-CAB-CBB
29	U7	201	PEB	C4A-C3A-CAA-CBA
29	U7	201	PEB	NB-C1B-CHA-C4A
29	U7	201	PEB	C2B-C1B-CHA-C4A
29	U7	202	PEB	ND-C1D-CHC-C4C
29	U7	202	PEB	C2D-C1D-CHC-C4C
29	U7	202	PEB	NB-C1B-CHA-C4A
29	U7	202	PEB	C2B-C1B-CHA-C4A
29	V7	201	PEB	NB-C1B-CHA-C4A
29	V7	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	V7	202	PEB	ND-C1D-CHC-C4C
29	V7	202	PEB	C2D-C1D-CHC-C4C
29	V7	202	PEB	NB-C1B-CHA-C4A
29	V7	202	PEB	C2B-C1B-CHA-C4A
29	V7	203	PEB	NC-C1C-CHB-C4B
29	V7	203	PEB	C2C-C1C-CHB-C4B
29	V7	203	PEB	NB-C1B-CHA-C4A
29	V7	203	PEB	C2B-C1B-CHA-C4A
29	V7	203	PEB	C2B-C3B-CAB-CBB
29	V7	203	PEB	C4B-C3B-CAB-CBB
29	W7	201	PEB	C4A-C3A-CAA-CBA
29	W7	201	PEB	NB-C1B-CHA-C4A
29	W7	201	PEB	C2B-C1B-CHA-C4A
29	W7	202	PEB	ND-C1D-CHC-C4C
29	W7	202	PEB	C2D-C1D-CHC-C4C
29	W7	202	PEB	NB-C1B-CHA-C4A
29	W7	202	PEB	C2B-C1B-CHA-C4A
29	Y7	201	PEB	NB-C1B-CHA-C4A
29	Y7	201	PEB	C2B-C1B-CHA-C4A
29	Y7	202	PEB	ND-C1D-CHC-C4C
29	Y7	202	PEB	C2D-C1D-CHC-C4C
29	Y7	202	PEB	NB-C1B-CHA-C4A
29	Y7	202	PEB	C2B-C1B-CHA-C4A
29	Y7	203	PEB	NC-C1C-CHB-C4B
29	Y7	203	PEB	C2C-C1C-CHB-C4B
29	Y7	203	PEB	NB-C1B-CHA-C4A
29	Y7	203	PEB	C2B-C1B-CHA-C4A
29	Y7	203	PEB	C2B-C3B-CAB-CBB
29	Y7	203	PEB	C4B-C3B-CAB-CBB
29	Z7	201	PEB	C4A-C3A-CAA-CBA
29	Z7	201	PEB	NB-C1B-CHA-C4A
29	Z7	201	PEB	C2B-C1B-CHA-C4A
29	Z7	202	PEB	ND-C1D-CHC-C4C
29	Z7	202	PEB	C2D-C1D-CHC-C4C
29	Z7	202	PEB	NB-C1B-CHA-C4A
29	Z7	202	PEB	C2B-C1B-CHA-C4A
29	a7	201	PEB	NB-C1B-CHA-C4A
29	a7	201	PEB	C2B-C1B-CHA-C4A
29	a7	202	PEB	ND-C1D-CHC-C4C
29	a7	202	PEB	C2D-C1D-CHC-C4C
29	a7	202	PEB	NB-C1B-CHA-C4A
29	a7	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	a7	203	PEB	NC-C1C-CHB-C4B
29	a7	203	PEB	C2C-C1C-CHB-C4B
29	a7	203	PEB	NB-C1B-CHA-C4A
29	a7	203	PEB	C2B-C1B-CHA-C4A
29	a7	203	PEB	C2B-C3B-CAB-CBB
29	a7	203	PEB	C4B-C3B-CAB-CBB
29	b7	201	PEB	C4A-C3A-CAA-CBA
29	b7	201	PEB	NB-C1B-CHA-C4A
29	b7	201	PEB	C2B-C1B-CHA-C4A
29	b7	202	PEB	ND-C1D-CHC-C4C
29	b7	202	PEB	C2D-C1D-CHC-C4C
29	b7	202	PEB	NB-C1B-CHA-C4A
29	b7	202	PEB	C2B-C1B-CHA-C4A
29	c7	201	PEB	NB-C1B-CHA-C4A
29	c7	201	PEB	C2B-C1B-CHA-C4A
29	c7	202	PEB	ND-C1D-CHC-C4C
29	c7	202	PEB	C2D-C1D-CHC-C4C
29	c7	202	PEB	NB-C1B-CHA-C4A
29	c7	202	PEB	C2B-C1B-CHA-C4A
29	c7	203	PEB	NC-C1C-CHB-C4B
29	c7	203	PEB	C2C-C1C-CHB-C4B
29	c7	203	PEB	NB-C1B-CHA-C4A
29	c7	203	PEB	C2B-C1B-CHA-C4A
29	c7	203	PEB	C2B-C3B-CAB-CBB
29	c7	203	PEB	C4B-C3B-CAB-CBB
29	d7	201	PEB	C4A-C3A-CAA-CBA
29	d7	201	PEB	NB-C1B-CHA-C4A
29	d7	201	PEB	C2B-C1B-CHA-C4A
29	d7	202	PEB	ND-C1D-CHC-C4C
29	d7	202	PEB	C2D-C1D-CHC-C4C
29	d7	202	PEB	NB-C1B-CHA-C4A
29	d7	202	PEB	C2B-C1B-CHA-C4A
29	e7	201	PEB	NB-C1B-CHA-C4A
29	e7	201	PEB	C2B-C1B-CHA-C4A
29	e7	202	PEB	ND-C1D-CHC-C4C
29	e7	202	PEB	C2D-C1D-CHC-C4C
29	e7	202	PEB	NB-C1B-CHA-C4A
29	e7	202	PEB	C2B-C1B-CHA-C4A
29	e7	203	PEB	NC-C1C-CHB-C4B
29	e7	203	PEB	C2C-C1C-CHB-C4B
29	e7	203	PEB	NB-C1B-CHA-C4A
29	e7	203	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	e7	203	PEB	C2B-C3B-CAB-CBB
29	e7	203	PEB	C4B-C3B-CAB-CBB
29	f7	201	PEB	C4A-C3A-CAA-CBA
29	f7	201	PEB	NB-C1B-CHA-C4A
29	f7	201	PEB	C2B-C1B-CHA-C4A
29	f7	202	PEB	ND-C1D-CHC-C4C
29	f7	202	PEB	C2D-C1D-CHC-C4C
29	f7	202	PEB	NB-C1B-CHA-C4A
29	f7	202	PEB	C2B-C1B-CHA-C4A
29	g7	201	PEB	NB-C1B-CHA-C4A
29	g7	201	PEB	C2B-C1B-CHA-C4A
29	g7	202	PEB	ND-C1D-CHC-C4C
29	g7	202	PEB	C2D-C1D-CHC-C4C
29	g7	202	PEB	NB-C1B-CHA-C4A
29	g7	202	PEB	C2B-C1B-CHA-C4A
29	g7	203	PEB	NC-C1C-CHB-C4B
29	g7	203	PEB	C2C-C1C-CHB-C4B
29	g7	203	PEB	NB-C1B-CHA-C4A
29	g7	203	PEB	C2B-C1B-CHA-C4A
29	g7	203	PEB	C2B-C3B-CAB-CBB
29	g7	203	PEB	C4B-C3B-CAB-CBB
29	h7	201	PEB	C4A-C3A-CAA-CBA
29	h7	201	PEB	NB-C1B-CHA-C4A
29	h7	201	PEB	C2B-C1B-CHA-C4A
29	h7	202	PEB	ND-C1D-CHC-C4C
29	h7	202	PEB	C2D-C1D-CHC-C4C
29	h7	202	PEB	NB-C1B-CHA-C4A
29	h7	202	PEB	C2B-C1B-CHA-C4A
29	i7	201	PEB	NB-C1B-CHA-C4A
29	i7	201	PEB	C2B-C1B-CHA-C4A
29	i7	202	PEB	ND-C1D-CHC-C4C
29	i7	202	PEB	C2D-C1D-CHC-C4C
29	i7	202	PEB	NB-C1B-CHA-C4A
29	i7	202	PEB	C2B-C1B-CHA-C4A
29	i7	203	PEB	NC-C1C-CHB-C4B
29	i7	203	PEB	C2C-C1C-CHB-C4B
29	i7	203	PEB	NB-C1B-CHA-C4A
29	i7	203	PEB	C2B-C1B-CHA-C4A
29	i7	203	PEB	C2B-C3B-CAB-CBB
29	i7	203	PEB	C4B-C3B-CAB-CBB
29	j7	201	PEB	C4A-C3A-CAA-CBA
29	j7	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	j7	201	PEB	C2B-C1B-CHA-C4A
29	j7	202	PEB	ND-C1D-CHC-C4C
29	j7	202	PEB	C2D-C1D-CHC-C4C
29	j7	202	PEB	NB-C1B-CHA-C4A
29	j7	202	PEB	C2B-C1B-CHA-C4A
29	k7	201	PEB	NB-C1B-CHA-C4A
29	k7	201	PEB	C2B-C1B-CHA-C4A
29	k7	202	PEB	ND-C1D-CHC-C4C
29	k7	202	PEB	C2D-C1D-CHC-C4C
29	k7	202	PEB	NB-C1B-CHA-C4A
29	k7	202	PEB	C2B-C1B-CHA-C4A
29	k7	203	PEB	NC-C1C-CHB-C4B
29	k7	203	PEB	C2C-C1C-CHB-C4B
29	k7	203	PEB	NB-C1B-CHA-C4A
29	k7	203	PEB	C2B-C1B-CHA-C4A
29	k7	203	PEB	C2B-C3B-CAB-CBB
29	k7	203	PEB	C4B-C3B-CAB-CBB
29	l7	201	PEB	C4A-C3A-CAA-CBA
29	l7	201	PEB	NB-C1B-CHA-C4A
29	l7	201	PEB	C2B-C1B-CHA-C4A
29	l7	202	PEB	ND-C1D-CHC-C4C
29	l7	202	PEB	C2D-C1D-CHC-C4C
29	l7	202	PEB	NB-C1B-CHA-C4A
29	l7	202	PEB	C2B-C1B-CHA-C4A
29	m7	201	PEB	NB-C1B-CHA-C4A
29	m7	201	PEB	C2B-C1B-CHA-C4A
29	m7	202	PEB	ND-C1D-CHC-C4C
29	m7	202	PEB	C2D-C1D-CHC-C4C
29	m7	202	PEB	NB-C1B-CHA-C4A
29	m7	202	PEB	C2B-C1B-CHA-C4A
29	m7	203	PEB	NC-C1C-CHB-C4B
29	m7	203	PEB	C2C-C1C-CHB-C4B
29	m7	203	PEB	NB-C1B-CHA-C4A
29	m7	203	PEB	C2B-C1B-CHA-C4A
29	m7	203	PEB	C2B-C3B-CAB-CBB
29	m7	203	PEB	C4B-C3B-CAB-CBB
29	B8	201	PEB	NB-C1B-CHA-C4A
29	B8	201	PEB	C2B-C1B-CHA-C4A
29	B8	202	PEB	C2C-CAC-CBC-CGC
29	B8	202	PEB	C2A-C3A-CAA-CBA
29	B8	202	PEB	C4A-C3A-CAA-CBA
29	B8	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	B8	202	PEB	C2B-C1B-CHA-C4A
29	B8	203	PEB	ND-C1D-CHC-C4C
29	B8	203	PEB	C2D-C1D-CHC-C4C
29	B8	203	PEB	NC-C1C-CHB-C4B
29	B8	203	PEB	C2C-C1C-CHB-C4B
29	B8	203	PEB	NB-C1B-CHA-C4A
29	B8	203	PEB	C2B-C1B-CHA-C4A
29	F8	201	PEB	NB-C1B-CHA-C4A
29	F8	201	PEB	C2B-C1B-CHA-C4A
29	F8	202	PEB	C2C-CAC-CBC-CGC
29	F8	202	PEB	C2A-C3A-CAA-CBA
29	F8	202	PEB	C4A-C3A-CAA-CBA
29	F8	202	PEB	NB-C1B-CHA-C4A
29	F8	202	PEB	C2B-C1B-CHA-C4A
29	F8	203	PEB	ND-C1D-CHC-C4C
29	F8	203	PEB	C2D-C1D-CHC-C4C
29	F8	203	PEB	NC-C1C-CHB-C4B
29	F8	203	PEB	C2C-C1C-CHB-C4B
29	F8	203	PEB	NB-C1B-CHA-C4A
29	F8	203	PEB	C2B-C1B-CHA-C4A
29	G8	201	PEB	NB-C1B-CHA-C4A
29	G8	201	PEB	C2B-C1B-CHA-C4A
29	G8	202	PEB	C2C-CAC-CBC-CGC
29	G8	202	PEB	C2A-C3A-CAA-CBA
29	G8	202	PEB	C4A-C3A-CAA-CBA
29	G8	202	PEB	NB-C1B-CHA-C4A
29	G8	202	PEB	C2B-C1B-CHA-C4A
29	G8	203	PEB	ND-C1D-CHC-C4C
29	G8	203	PEB	C2D-C1D-CHC-C4C
29	G8	203	PEB	NC-C1C-CHB-C4B
29	G8	203	PEB	C2C-C1C-CHB-C4B
29	G8	203	PEB	NB-C1B-CHA-C4A
29	G8	203	PEB	C2B-C1B-CHA-C4A
29	H8	201	PEB	NB-C1B-CHA-C4A
29	H8	201	PEB	C2B-C1B-CHA-C4A
29	H8	202	PEB	C2C-CAC-CBC-CGC
29	H8	202	PEB	C2A-C3A-CAA-CBA
29	H8	202	PEB	C4A-C3A-CAA-CBA
29	H8	202	PEB	NB-C1B-CHA-C4A
29	H8	202	PEB	C2B-C1B-CHA-C4A
29	H8	203	PEB	ND-C1D-CHC-C4C
29	H8	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	H8	203	PEB	NC-C1C-CHB-C4B
29	H8	203	PEB	C2C-C1C-CHB-C4B
29	H8	203	PEB	NB-C1B-CHA-C4A
29	H8	203	PEB	C2B-C1B-CHA-C4A
29	I8	201	PEB	NB-C1B-CHA-C4A
29	I8	201	PEB	C2B-C1B-CHA-C4A
29	I8	202	PEB	C4A-C3A-CAA-CBA
29	I8	202	PEB	NB-C1B-CHA-C4A
29	I8	202	PEB	C2B-C1B-CHA-C4A
29	I8	203	PEB	NC-C1C-CHB-C4B
29	I8	203	PEB	C2C-C1C-CHB-C4B
29	I8	203	PEB	NB-C1B-CHA-C4A
29	I8	203	PEB	C2B-C1B-CHA-C4A
29	J8	201	PEB	C2B-C1B-CHA-C4A
29	J8	202	PEB	C1C-C2C-CAC-CBC
29	J8	202	PEB	C3C-C2C-CAC-CBC
29	J8	202	PEB	C2A-C3A-CAA-CBA
29	J8	202	PEB	NB-C1B-CHA-C4A
29	J8	202	PEB	C2B-C1B-CHA-C4A
29	K8	201	PEB	NB-C1B-CHA-C4A
29	K8	201	PEB	C2B-C1B-CHA-C4A
29	K8	202	PEB	C4A-C3A-CAA-CBA
29	K8	202	PEB	NB-C1B-CHA-C4A
29	K8	202	PEB	C2B-C1B-CHA-C4A
29	K8	203	PEB	NC-C1C-CHB-C4B
29	K8	203	PEB	C2C-C1C-CHB-C4B
29	K8	203	PEB	NB-C1B-CHA-C4A
29	K8	203	PEB	C2B-C1B-CHA-C4A
29	L8	201	PEB	NB-C1B-CHA-C4A
29	L8	201	PEB	C2B-C1B-CHA-C4A
29	L8	202	PEB	C2C-CAC-CBC-CGC
29	L8	202	PEB	C2A-C3A-CAA-CBA
29	L8	202	PEB	C4A-C3A-CAA-CBA
29	L8	202	PEB	NB-C1B-CHA-C4A
29	L8	202	PEB	C2B-C1B-CHA-C4A
29	L8	203	PEB	ND-C1D-CHC-C4C
29	L8	203	PEB	C2D-C1D-CHC-C4C
29	L8	203	PEB	NC-C1C-CHB-C4B
29	L8	203	PEB	C2C-C1C-CHB-C4B
29	L8	203	PEB	NB-C1B-CHA-C4A
29	L8	203	PEB	C2B-C1B-CHA-C4A
29	A8	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	A8	201	PEB	C2B-C1B-CHA-C4A
29	A8	202	PEB	C4A-C3A-CAA-CBA
29	A8	202	PEB	NB-C1B-CHA-C4A
29	A8	202	PEB	C2B-C1B-CHA-C4A
29	A8	203	PEB	NC-C1C-CHB-C4B
29	A8	203	PEB	C2C-C1C-CHB-C4B
29	A8	203	PEB	NB-C1B-CHA-C4A
29	A8	203	PEB	C2B-C1B-CHA-C4A
29	C8	201	PEB	NB-C1B-CHA-C4A
29	C8	201	PEB	C2B-C1B-CHA-C4A
29	C8	202	PEB	C4A-C3A-CAA-CBA
29	C8	202	PEB	NB-C1B-CHA-C4A
29	C8	202	PEB	C2B-C1B-CHA-C4A
29	C8	203	PEB	NC-C1C-CHB-C4B
29	C8	203	PEB	C2C-C1C-CHB-C4B
29	C8	203	PEB	NB-C1B-CHA-C4A
29	C8	203	PEB	C2B-C1B-CHA-C4A
29	A9	301	PEB	C2C-CAC-CBC-CGC
29	A9	301	PEB	C4A-C3A-CAA-CBA
29	A9	301	PEB	NB-C1B-CHA-C4A
29	A9	301	PEB	C2B-C1B-CHA-C4A
29	A9	304	PEB	NB-C1B-CHA-C4A
29	A9	304	PEB	C2B-C1B-CHA-C4A
29	A9	305	PEB	NB-C1B-CHA-C4A
29	A9	305	PEB	C2B-C1B-CHA-C4A
29	D9	1002	PEB	NC-C1C-CHB-C4B
29	D9	1002	PEB	C2A-C3A-CAA-CBA
29	D9	1002	PEB	C4A-C3A-CAA-CBA
29	D9	1002	PEB	NB-C1B-CHA-C4A
29	D9	1002	PEB	C2B-C1B-CHA-C4A
29	F9	1002	PEB	NC-C1C-CHB-C4B
29	F9	1002	PEB	C2A-C3A-CAA-CBA
29	F9	1002	PEB	C4A-C3A-CAA-CBA
29	F9	1002	PEB	NB-C1B-CHA-C4A
29	F9	1002	PEB	C2B-C1B-CHA-C4A
29	H9	1002	PEB	NC-C1C-CHB-C4B
29	H9	1002	PEB	C2A-C3A-CAA-CBA
29	H9	1002	PEB	C4A-C3A-CAA-CBA
29	H9	1002	PEB	NB-C1B-CHA-C4A
29	H9	1002	PEB	C2B-C1B-CHA-C4A
29	J9	1002	PEB	NC-C1C-CHB-C4B
29	J9	1002	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	J9	1002	PEB	C4A-C3A-CAA-CBA
29	J9	1002	PEB	NB-C1B-CHA-C4A
29	J9	1002	PEB	C2B-C1B-CHA-C4A
29	L9	1002	PEB	NC-C1C-CHB-C4B
29	L9	1002	PEB	C2A-C3A-CAA-CBA
29	L9	1002	PEB	C4A-C3A-CAA-CBA
29	L9	1002	PEB	NB-C1B-CHA-C4A
29	L9	1002	PEB	C2B-C1B-CHA-C4A
29	N9	1002	PEB	NC-C1C-CHB-C4B
29	N9	1002	PEB	C2A-C3A-CAA-CBA
29	N9	1002	PEB	C4A-C3A-CAA-CBA
29	N9	1002	PEB	NB-C1B-CHA-C4A
29	N9	1002	PEB	C2B-C1B-CHA-C4A
29	O9	201	PEB	C4A-C3A-CAA-CBA
29	O9	201	PEB	NB-C1B-CHA-C4A
29	O9	201	PEB	C2B-C1B-CHA-C4A
29	O9	202	PEB	ND-C1D-CHC-C4C
29	O9	202	PEB	C2D-C1D-CHC-C4C
29	O9	202	PEB	NB-C1B-CHA-C4A
29	O9	202	PEB	C2B-C1B-CHA-C4A
29	P9	201	PEB	NB-C1B-CHA-C4A
29	P9	201	PEB	C2B-C1B-CHA-C4A
29	P9	202	PEB	ND-C1D-CHC-C4C
29	P9	202	PEB	C2D-C1D-CHC-C4C
29	P9	202	PEB	NB-C1B-CHA-C4A
29	P9	202	PEB	C2B-C1B-CHA-C4A
29	P9	203	PEB	NC-C1C-CHB-C4B
29	P9	203	PEB	C2C-C1C-CHB-C4B
29	P9	203	PEB	NB-C1B-CHA-C4A
29	P9	203	PEB	C2B-C1B-CHA-C4A
29	P9	203	PEB	C2B-C3B-CAB-CBB
29	P9	203	PEB	C4B-C3B-CAB-CBB
29	Q9	201	PEB	C4A-C3A-CAA-CBA
29	Q9	201	PEB	NB-C1B-CHA-C4A
29	Q9	201	PEB	C2B-C1B-CHA-C4A
29	Q9	202	PEB	ND-C1D-CHC-C4C
29	Q9	202	PEB	C2D-C1D-CHC-C4C
29	Q9	202	PEB	NB-C1B-CHA-C4A
29	Q9	202	PEB	C2B-C1B-CHA-C4A
29	R9	201	PEB	NB-C1B-CHA-C4A
29	R9	201	PEB	C2B-C1B-CHA-C4A
29	R9	202	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	R9	202	PEB	C2D-C1D-CHC-C4C
29	R9	202	PEB	NB-C1B-CHA-C4A
29	R9	202	PEB	C2B-C1B-CHA-C4A
29	R9	203	PEB	NC-C1C-CHB-C4B
29	R9	203	PEB	C2C-C1C-CHB-C4B
29	R9	203	PEB	NB-C1B-CHA-C4A
29	R9	203	PEB	C2B-C1B-CHA-C4A
29	R9	203	PEB	C2B-C3B-CAB-CBB
29	R9	203	PEB	C4B-C3B-CAB-CBB
29	S9	201	PEB	C4A-C3A-CAA-CBA
29	S9	201	PEB	NB-C1B-CHA-C4A
29	S9	201	PEB	C2B-C1B-CHA-C4A
29	S9	202	PEB	ND-C1D-CHC-C4C
29	S9	202	PEB	C2D-C1D-CHC-C4C
29	S9	202	PEB	NB-C1B-CHA-C4A
29	S9	202	PEB	C2B-C1B-CHA-C4A
29	T9	201	PEB	NB-C1B-CHA-C4A
29	T9	201	PEB	C2B-C1B-CHA-C4A
29	T9	202	PEB	ND-C1D-CHC-C4C
29	T9	202	PEB	C2D-C1D-CHC-C4C
29	T9	202	PEB	NB-C1B-CHA-C4A
29	T9	202	PEB	C2B-C1B-CHA-C4A
29	T9	203	PEB	NC-C1C-CHB-C4B
29	T9	203	PEB	C2C-C1C-CHB-C4B
29	T9	203	PEB	NB-C1B-CHA-C4A
29	T9	203	PEB	C2B-C1B-CHA-C4A
29	T9	203	PEB	C2B-C3B-CAB-CBB
29	T9	203	PEB	C4B-C3B-CAB-CBB
29	U9	201	PEB	C4A-C3A-CAA-CBA
29	U9	201	PEB	NB-C1B-CHA-C4A
29	U9	201	PEB	C2B-C1B-CHA-C4A
29	U9	202	PEB	ND-C1D-CHC-C4C
29	U9	202	PEB	C2D-C1D-CHC-C4C
29	U9	202	PEB	NB-C1B-CHA-C4A
29	U9	202	PEB	C2B-C1B-CHA-C4A
29	V9	201	PEB	NB-C1B-CHA-C4A
29	V9	201	PEB	C2B-C1B-CHA-C4A
29	V9	202	PEB	ND-C1D-CHC-C4C
29	V9	202	PEB	C2D-C1D-CHC-C4C
29	V9	202	PEB	NB-C1B-CHA-C4A
29	V9	202	PEB	C2B-C1B-CHA-C4A
29	V9	203	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	V9	203	PEB	C2C-C1C-CHB-C4B
29	V9	203	PEB	NB-C1B-CHA-C4A
29	V9	203	PEB	C2B-C1B-CHA-C4A
29	V9	203	PEB	C2B-C3B-CAB-CBB
29	V9	203	PEB	C4B-C3B-CAB-CBB
29	W9	201	PEB	C4A-C3A-CAA-CBA
29	W9	201	PEB	NB-C1B-CHA-C4A
29	W9	201	PEB	C2B-C1B-CHA-C4A
29	W9	202	PEB	ND-C1D-CHC-C4C
29	W9	202	PEB	C2D-C1D-CHC-C4C
29	W9	202	PEB	NB-C1B-CHA-C4A
29	W9	202	PEB	C2B-C1B-CHA-C4A
29	Y9	201	PEB	NB-C1B-CHA-C4A
29	Y9	201	PEB	C2B-C1B-CHA-C4A
29	Y9	202	PEB	ND-C1D-CHC-C4C
29	Y9	202	PEB	C2D-C1D-CHC-C4C
29	Y9	202	PEB	NB-C1B-CHA-C4A
29	Y9	202	PEB	C2B-C1B-CHA-C4A
29	Y9	203	PEB	NC-C1C-CHB-C4B
29	Y9	203	PEB	C2C-C1C-CHB-C4B
29	Y9	203	PEB	NB-C1B-CHA-C4A
29	Y9	203	PEB	C2B-C1B-CHA-C4A
29	Y9	203	PEB	C2B-C3B-CAB-CBB
29	Y9	203	PEB	C4B-C3B-CAB-CBB
29	Z9	201	PEB	C4A-C3A-CAA-CBA
29	Z9	201	PEB	NB-C1B-CHA-C4A
29	Z9	201	PEB	C2B-C1B-CHA-C4A
29	Z9	202	PEB	ND-C1D-CHC-C4C
29	Z9	202	PEB	C2D-C1D-CHC-C4C
29	Z9	202	PEB	NB-C1B-CHA-C4A
29	Z9	202	PEB	C2B-C1B-CHA-C4A
29	a9	201	PEB	NB-C1B-CHA-C4A
29	a9	201	PEB	C2B-C1B-CHA-C4A
29	a9	202	PEB	ND-C1D-CHC-C4C
29	a9	202	PEB	C2D-C1D-CHC-C4C
29	a9	202	PEB	NB-C1B-CHA-C4A
29	a9	202	PEB	C2B-C1B-CHA-C4A
29	a9	203	PEB	NC-C1C-CHB-C4B
29	a9	203	PEB	C2C-C1C-CHB-C4B
29	a9	203	PEB	NB-C1B-CHA-C4A
29	a9	203	PEB	C2B-C1B-CHA-C4A
29	a9	203	PEB	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	a9	203	PEB	C4B-C3B-CAB-CBB
29	b9	201	PEB	C4A-C3A-CAA-CBA
29	b9	201	PEB	NB-C1B-CHA-C4A
29	b9	201	PEB	C2B-C1B-CHA-C4A
29	b9	202	PEB	ND-C1D-CHC-C4C
29	b9	202	PEB	C2D-C1D-CHC-C4C
29	b9	202	PEB	NB-C1B-CHA-C4A
29	b9	202	PEB	C2B-C1B-CHA-C4A
29	c9	201	PEB	NB-C1B-CHA-C4A
29	c9	201	PEB	C2B-C1B-CHA-C4A
29	c9	202	PEB	ND-C1D-CHC-C4C
29	c9	202	PEB	C2D-C1D-CHC-C4C
29	c9	202	PEB	NB-C1B-CHA-C4A
29	c9	202	PEB	C2B-C1B-CHA-C4A
29	c9	203	PEB	NC-C1C-CHB-C4B
29	c9	203	PEB	C2C-C1C-CHB-C4B
29	c9	203	PEB	NB-C1B-CHA-C4A
29	c9	203	PEB	C2B-C1B-CHA-C4A
29	c9	203	PEB	C2B-C3B-CAB-CBB
29	c9	203	PEB	C4B-C3B-CAB-CBB
29	d9	201	PEB	C4A-C3A-CAA-CBA
29	d9	201	PEB	NB-C1B-CHA-C4A
29	d9	201	PEB	C2B-C1B-CHA-C4A
29	d9	202	PEB	ND-C1D-CHC-C4C
29	d9	202	PEB	C2D-C1D-CHC-C4C
29	d9	202	PEB	NB-C1B-CHA-C4A
29	d9	202	PEB	C2B-C1B-CHA-C4A
29	e9	201	PEB	NB-C1B-CHA-C4A
29	e9	201	PEB	C2B-C1B-CHA-C4A
29	e9	202	PEB	ND-C1D-CHC-C4C
29	e9	202	PEB	C2D-C1D-CHC-C4C
29	e9	202	PEB	NB-C1B-CHA-C4A
29	e9	202	PEB	C2B-C1B-CHA-C4A
29	e9	203	PEB	NC-C1C-CHB-C4B
29	e9	203	PEB	C2C-C1C-CHB-C4B
29	e9	203	PEB	NB-C1B-CHA-C4A
29	e9	203	PEB	C2B-C1B-CHA-C4A
29	e9	203	PEB	C2B-C3B-CAB-CBB
29	e9	203	PEB	C4B-C3B-CAB-CBB
29	f9	201	PEB	C4A-C3A-CAA-CBA
29	f9	201	PEB	NB-C1B-CHA-C4A
29	f9	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	f9	202	PEB	ND-C1D-CHC-C4C
29	f9	202	PEB	C2D-C1D-CHC-C4C
29	f9	202	PEB	NB-C1B-CHA-C4A
29	f9	202	PEB	C2B-C1B-CHA-C4A
29	g9	201	PEB	NB-C1B-CHA-C4A
29	g9	201	PEB	C2B-C1B-CHA-C4A
29	g9	202	PEB	ND-C1D-CHC-C4C
29	g9	202	PEB	C2D-C1D-CHC-C4C
29	g9	202	PEB	NB-C1B-CHA-C4A
29	g9	202	PEB	C2B-C1B-CHA-C4A
29	g9	203	PEB	NC-C1C-CHB-C4B
29	g9	203	PEB	C2C-C1C-CHB-C4B
29	g9	203	PEB	NB-C1B-CHA-C4A
29	g9	203	PEB	C2B-C1B-CHA-C4A
29	g9	203	PEB	C2B-C3B-CAB-CBB
29	g9	203	PEB	C4B-C3B-CAB-CBB
29	h9	201	PEB	C4A-C3A-CAA-CBA
29	h9	201	PEB	NB-C1B-CHA-C4A
29	h9	201	PEB	C2B-C1B-CHA-C4A
29	h9	202	PEB	ND-C1D-CHC-C4C
29	h9	202	PEB	C2D-C1D-CHC-C4C
29	h9	202	PEB	NB-C1B-CHA-C4A
29	h9	202	PEB	C2B-C1B-CHA-C4A
29	i9	201	PEB	NB-C1B-CHA-C4A
29	i9	201	PEB	C2B-C1B-CHA-C4A
29	i9	202	PEB	ND-C1D-CHC-C4C
29	i9	202	PEB	C2D-C1D-CHC-C4C
29	i9	202	PEB	NB-C1B-CHA-C4A
29	i9	202	PEB	C2B-C1B-CHA-C4A
29	i9	203	PEB	NC-C1C-CHB-C4B
29	i9	203	PEB	C2C-C1C-CHB-C4B
29	i9	203	PEB	NB-C1B-CHA-C4A
29	i9	203	PEB	C2B-C1B-CHA-C4A
29	i9	203	PEB	C2B-C3B-CAB-CBB
29	i9	203	PEB	C4B-C3B-CAB-CBB
29	j9	201	PEB	C4A-C3A-CAA-CBA
29	j9	201	PEB	NB-C1B-CHA-C4A
29	j9	201	PEB	C2B-C1B-CHA-C4A
29	j9	202	PEB	ND-C1D-CHC-C4C
29	j9	202	PEB	C2D-C1D-CHC-C4C
29	j9	202	PEB	NB-C1B-CHA-C4A
29	j9	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	k9	201	PEB	NB-C1B-CHA-C4A
29	k9	201	PEB	C2B-C1B-CHA-C4A
29	k9	202	PEB	ND-C1D-CHC-C4C
29	k9	202	PEB	C2D-C1D-CHC-C4C
29	k9	202	PEB	NB-C1B-CHA-C4A
29	k9	202	PEB	C2B-C1B-CHA-C4A
29	k9	203	PEB	NC-C1C-CHB-C4B
29	k9	203	PEB	C2C-C1C-CHB-C4B
29	k9	203	PEB	NB-C1B-CHA-C4A
29	k9	203	PEB	C2B-C1B-CHA-C4A
29	k9	203	PEB	C2B-C3B-CAB-CBB
29	k9	203	PEB	C4B-C3B-CAB-CBB
29	l9	201	PEB	C4A-C3A-CAA-CBA
29	l9	201	PEB	NB-C1B-CHA-C4A
29	l9	201	PEB	C2B-C1B-CHA-C4A
29	l9	202	PEB	ND-C1D-CHC-C4C
29	l9	202	PEB	C2D-C1D-CHC-C4C
29	l9	202	PEB	NB-C1B-CHA-C4A
29	l9	202	PEB	C2B-C1B-CHA-C4A
29	m9	201	PEB	NB-C1B-CHA-C4A
29	m9	201	PEB	C2B-C1B-CHA-C4A
29	m9	202	PEB	ND-C1D-CHC-C4C
29	m9	202	PEB	C2D-C1D-CHC-C4C
29	m9	202	PEB	NB-C1B-CHA-C4A
29	m9	202	PEB	C2B-C1B-CHA-C4A
29	m9	203	PEB	NC-C1C-CHB-C4B
29	m9	203	PEB	C2C-C1C-CHB-C4B
29	m9	203	PEB	NB-C1B-CHA-C4A
29	m9	203	PEB	C2B-C1B-CHA-C4A
29	m9	203	PEB	C2B-C3B-CAB-CBB
29	m9	203	PEB	C4B-C3B-CAB-CBB
29	AA	201	PEB	ND-C1D-CHC-C4C
29	AA	201	PEB	C4A-C3A-CAA-CBA
29	AA	201	PEB	NB-C1B-CHA-C4A
29	AA	201	PEB	C2B-C1B-CHA-C4A
29	AA	202	PEB	ND-C1D-CHC-C4C
29	AA	202	PEB	C2D-C1D-CHC-C4C
29	AA	202	PEB	NC-C1C-CHB-C4B
29	AA	202	PEB	C2C-C1C-CHB-C4B
29	AA	202	PEB	C4A-C3A-CAA-CBA
29	AA	202	PEB	NB-C1B-CHA-C4A
29	AA	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	AA	202	PEB	C3B-C4B-CHB-C1C
29	BA	201	PEB	ND-C1D-CHC-C4C
29	BA	201	PEB	C2D-C1D-CHC-C4C
29	BA	201	PEB	C2C-CAC-CBC-CGC
29	BA	201	PEB	NB-C1B-CHA-C4A
29	BA	201	PEB	C2B-C1B-CHA-C4A
29	BA	202	PEB	NC-C1C-CHB-C4B
29	BA	202	PEB	C2C-C1C-CHB-C4B
29	BA	202	PEB	C2A-C3A-CAA-CBA
29	BA	202	PEB	C4A-C3A-CAA-CBA
29	BA	202	PEB	NB-C1B-CHA-C4A
29	BA	202	PEB	C2B-C1B-CHA-C4A
29	BA	203	PEB	NC-C1C-CHB-C4B
29	BA	203	PEB	C2C-C1C-CHB-C4B
29	BA	203	PEB	C2A-C3A-CAA-CBA
29	BA	203	PEB	NB-C1B-CHA-C4A
29	BA	203	PEB	C2B-C1B-CHA-C4A
29	CA	201	PEB	ND-C1D-CHC-C4C
29	CA	201	PEB	C4A-C3A-CAA-CBA
29	CA	201	PEB	NB-C1B-CHA-C4A
29	CA	201	PEB	C2B-C1B-CHA-C4A
29	CA	202	PEB	ND-C1D-CHC-C4C
29	CA	202	PEB	C2D-C1D-CHC-C4C
29	CA	202	PEB	NC-C1C-CHB-C4B
29	CA	202	PEB	C2C-C1C-CHB-C4B
29	CA	202	PEB	C4A-C3A-CAA-CBA
29	CA	202	PEB	NB-C1B-CHA-C4A
29	CA	202	PEB	C2B-C1B-CHA-C4A
29	CA	202	PEB	C3B-C4B-CHB-C1C
29	DA	201	PEB	ND-C1D-CHC-C4C
29	DA	201	PEB	C2D-C1D-CHC-C4C
29	DA	201	PEB	C2C-CAC-CBC-CGC
29	DA	201	PEB	NB-C1B-CHA-C4A
29	DA	201	PEB	C2B-C1B-CHA-C4A
29	DA	202	PEB	NC-C1C-CHB-C4B
29	DA	202	PEB	C2C-C1C-CHB-C4B
29	DA	202	PEB	C2A-C3A-CAA-CBA
29	DA	202	PEB	C4A-C3A-CAA-CBA
29	DA	202	PEB	NB-C1B-CHA-C4A
29	DA	202	PEB	C2B-C1B-CHA-C4A
29	DA	203	PEB	NC-C1C-CHB-C4B
29	DA	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	DA	203	PEB	C2A-C3A-CAA-CBA
29	DA	203	PEB	NB-C1B-CHA-C4A
29	DA	203	PEB	C2B-C1B-CHA-C4A
29	EA	201	PEB	ND-C1D-CHC-C4C
29	EA	201	PEB	C4A-C3A-CAA-CBA
29	EA	201	PEB	NB-C1B-CHA-C4A
29	EA	201	PEB	C2B-C1B-CHA-C4A
29	EA	202	PEB	ND-C1D-CHC-C4C
29	EA	202	PEB	C2D-C1D-CHC-C4C
29	EA	202	PEB	NC-C1C-CHB-C4B
29	EA	202	PEB	C2C-C1C-CHB-C4B
29	EA	202	PEB	C4A-C3A-CAA-CBA
29	EA	202	PEB	NB-C1B-CHA-C4A
29	EA	202	PEB	C2B-C1B-CHA-C4A
29	EA	202	PEB	C3B-C4B-CHB-C1C
29	FA	201	PEB	ND-C1D-CHC-C4C
29	FA	201	PEB	C2D-C1D-CHC-C4C
29	FA	201	PEB	C2C-CAC-CBC-CGC
29	FA	201	PEB	NB-C1B-CHA-C4A
29	FA	201	PEB	C2B-C1B-CHA-C4A
29	FA	202	PEB	NC-C1C-CHB-C4B
29	FA	202	PEB	C2C-C1C-CHB-C4B
29	FA	202	PEB	C2A-C3A-CAA-CBA
29	FA	202	PEB	C4A-C3A-CAA-CBA
29	FA	202	PEB	NB-C1B-CHA-C4A
29	FA	202	PEB	C2B-C1B-CHA-C4A
29	FA	203	PEB	NC-C1C-CHB-C4B
29	FA	203	PEB	C2C-C1C-CHB-C4B
29	FA	203	PEB	C2A-C3A-CAA-CBA
29	FA	203	PEB	NB-C1B-CHA-C4A
29	FA	203	PEB	C2B-C1B-CHA-C4A
29	GA	201	PEB	ND-C1D-CHC-C4C
29	GA	201	PEB	C4A-C3A-CAA-CBA
29	GA	201	PEB	NB-C1B-CHA-C4A
29	GA	201	PEB	C2B-C1B-CHA-C4A
29	GA	202	PEB	ND-C1D-CHC-C4C
29	GA	202	PEB	C2D-C1D-CHC-C4C
29	GA	202	PEB	NC-C1C-CHB-C4B
29	GA	202	PEB	C2C-C1C-CHB-C4B
29	GA	202	PEB	C4A-C3A-CAA-CBA
29	GA	202	PEB	NB-C1B-CHA-C4A
29	GA	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	GA	202	PEB	C3B-C4B-CHB-C1C
29	HA	201	PEB	ND-C1D-CHC-C4C
29	HA	201	PEB	C2D-C1D-CHC-C4C
29	HA	201	PEB	C2C-CAC-CBC-CGC
29	HA	201	PEB	NB-C1B-CHA-C4A
29	HA	201	PEB	C2B-C1B-CHA-C4A
29	HA	202	PEB	NC-C1C-CHB-C4B
29	HA	202	PEB	C2C-C1C-CHB-C4B
29	HA	202	PEB	C2A-C3A-CAA-CBA
29	HA	202	PEB	C4A-C3A-CAA-CBA
29	HA	202	PEB	NB-C1B-CHA-C4A
29	HA	202	PEB	C2B-C1B-CHA-C4A
29	HA	203	PEB	NC-C1C-CHB-C4B
29	HA	203	PEB	C2C-C1C-CHB-C4B
29	HA	203	PEB	C2A-C3A-CAA-CBA
29	HA	203	PEB	NB-C1B-CHA-C4A
29	HA	203	PEB	C2B-C1B-CHA-C4A
29	IA	201	PEB	ND-C1D-CHC-C4C
29	IA	201	PEB	C4A-C3A-CAA-CBA
29	IA	201	PEB	NB-C1B-CHA-C4A
29	IA	201	PEB	C2B-C1B-CHA-C4A
29	IA	202	PEB	ND-C1D-CHC-C4C
29	IA	202	PEB	C2D-C1D-CHC-C4C
29	IA	202	PEB	NC-C1C-CHB-C4B
29	IA	202	PEB	C2C-C1C-CHB-C4B
29	IA	202	PEB	C4A-C3A-CAA-CBA
29	IA	202	PEB	NB-C1B-CHA-C4A
29	IA	202	PEB	C2B-C1B-CHA-C4A
29	IA	202	PEB	C3B-C4B-CHB-C1C
29	JA	201	PEB	ND-C1D-CHC-C4C
29	JA	201	PEB	C2D-C1D-CHC-C4C
29	JA	201	PEB	C2C-CAC-CBC-CGC
29	JA	201	PEB	NB-C1B-CHA-C4A
29	JA	201	PEB	C2B-C1B-CHA-C4A
29	JA	202	PEB	NC-C1C-CHB-C4B
29	JA	202	PEB	C2C-C1C-CHB-C4B
29	JA	202	PEB	C2A-C3A-CAA-CBA
29	JA	202	PEB	C4A-C3A-CAA-CBA
29	JA	202	PEB	NB-C1B-CHA-C4A
29	JA	202	PEB	C2B-C1B-CHA-C4A
29	JA	203	PEB	NC-C1C-CHB-C4B
29	JA	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	JA	203	PEB	C2A-C3A-CAA-CBA
29	JA	203	PEB	NB-C1B-CHA-C4A
29	JA	203	PEB	C2B-C1B-CHA-C4A
29	KA	201	PEB	ND-C1D-CHC-C4C
29	KA	201	PEB	C4A-C3A-CAA-CBA
29	KA	201	PEB	NB-C1B-CHA-C4A
29	KA	201	PEB	C2B-C1B-CHA-C4A
29	KA	202	PEB	ND-C1D-CHC-C4C
29	KA	202	PEB	C2D-C1D-CHC-C4C
29	KA	202	PEB	NC-C1C-CHB-C4B
29	KA	202	PEB	C2C-C1C-CHB-C4B
29	KA	202	PEB	C4A-C3A-CAA-CBA
29	KA	202	PEB	NB-C1B-CHA-C4A
29	KA	202	PEB	C2B-C1B-CHA-C4A
29	KA	202	PEB	C3B-C4B-CHB-C1C
29	LA	201	PEB	ND-C1D-CHC-C4C
29	LA	201	PEB	C2D-C1D-CHC-C4C
29	LA	201	PEB	C2C-CAC-CBC-CGC
29	LA	201	PEB	NB-C1B-CHA-C4A
29	LA	201	PEB	C2B-C1B-CHA-C4A
29	LA	202	PEB	NC-C1C-CHB-C4B
29	LA	202	PEB	C2C-C1C-CHB-C4B
29	LA	202	PEB	C2A-C3A-CAA-CBA
29	LA	202	PEB	C4A-C3A-CAA-CBA
29	LA	202	PEB	NB-C1B-CHA-C4A
29	LA	202	PEB	C2B-C1B-CHA-C4A
29	LA	203	PEB	NC-C1C-CHB-C4B
29	LA	203	PEB	C2C-C1C-CHB-C4B
29	LA	203	PEB	C2A-C3A-CAA-CBA
29	LA	203	PEB	NB-C1B-CHA-C4A
29	LA	203	PEB	C2B-C1B-CHA-C4A
29	MA	401	PEB	ND-C1D-CHC-C4C
29	MA	401	PEB	NC-C1C-CHB-C4B
29	MA	401	PEB	C2C-C1C-CHB-C4B
29	MA	401	PEB	C4A-C3A-CAA-CBA
29	MA	401	PEB	NB-C1B-CHA-C4A
29	MA	401	PEB	C2B-C1B-CHA-C4A
29	MA	404	PEB	ND-C1D-CHC-C4C
29	MA	404	PEB	C2D-C1D-CHC-C4C
29	MA	404	PEB	NC-C1C-CHB-C4B
29	MA	404	PEB	C2C-C1C-CHB-C4B
29	MA	404	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	MA	404	PEB	C2B-C1B-CHA-C4A
29	MA	405	PEB	ND-C1D-CHC-C4C
29	MA	405	PEB	C2D-C1D-CHC-C4C
29	MA	405	PEB	C2C-CAC-CBC-CGC
29	AB	301	PEB	ND-C1D-CHC-C4C
29	AB	301	PEB	C2D-C1D-CHC-C4C
29	AB	301	PEB	NB-C1B-CHA-C4A
29	AB	301	PEB	C2B-C1B-CHA-C4A
29	AB	302	PEB	C2A-C3A-CAA-CBA
29	AB	302	PEB	C4A-C3A-CAA-CBA
29	AB	302	PEB	NB-C1B-CHA-C4A
29	AB	302	PEB	C2B-C1B-CHA-C4A
29	AB	303	PEB	NC-C1C-CHB-C4B
29	AB	303	PEB	C2C-C1C-CHB-C4B
29	AB	303	PEB	C4A-C3A-CAA-CBA
29	AB	303	PEB	NB-C1B-CHA-C4A
29	AB	303	PEB	C2B-C1B-CHA-C4A
29	BB	301	PEB	NC-C1C-CHB-C4B
29	BB	301	PEB	C1C-C2C-CAC-CBC
29	BB	301	PEB	C3C-C2C-CAC-CBC
29	BB	301	PEB	C4A-C3A-CAA-CBA
29	BB	301	PEB	NB-C1B-CHA-C4A
29	BB	301	PEB	C2B-C1B-CHA-C4A
29	CB	201	PEB	NB-C1B-CHA-C4A
29	CB	201	PEB	C2B-C1B-CHA-C4A
29	CB	202	PEB	NC-C1C-CHB-C4B
29	CB	202	PEB	C2C-C1C-CHB-C4B
29	CB	202	PEB	NB-C1B-CHA-C4A
29	CB	202	PEB	C2B-C1B-CHA-C4A
29	DB	201	PEB	ND-C1D-CHC-C4C
29	DB	201	PEB	C2D-C1D-CHC-C4C
29	DB	201	PEB	NB-C1B-CHA-C4A
29	DB	201	PEB	C2B-C1B-CHA-C4A
29	DB	202	PEB	C4A-C3A-CAA-CBA
29	DB	202	PEB	NB-C1B-CHA-C4A
29	DB	202	PEB	C2B-C1B-CHA-C4A
29	DB	203	PEB	ND-C1D-CHC-C4C
29	DB	203	PEB	C2D-C1D-CHC-C4C
29	DB	203	PEB	NC-C1C-CHB-C4B
29	DB	203	PEB	C2C-C1C-CHB-C4B
29	DB	203	PEB	C2A-C3A-CAA-CBA
29	DB	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	DB	203	PEB	NB-C1B-CHA-C4A
29	DB	203	PEB	C2B-C1B-CHA-C4A
29	EB	201	PEB	NB-C1B-CHA-C4A
29	EB	201	PEB	C2B-C1B-CHA-C4A
29	EB	202	PEB	NC-C1C-CHB-C4B
29	EB	202	PEB	C2C-C1C-CHB-C4B
29	EB	202	PEB	NB-C1B-CHA-C4A
29	EB	202	PEB	C2B-C1B-CHA-C4A
29	FB	201	PEB	ND-C1D-CHC-C4C
29	FB	201	PEB	C2D-C1D-CHC-C4C
29	FB	201	PEB	NB-C1B-CHA-C4A
29	FB	201	PEB	C2B-C1B-CHA-C4A
29	FB	202	PEB	C4A-C3A-CAA-CBA
29	FB	202	PEB	NB-C1B-CHA-C4A
29	FB	202	PEB	C2B-C1B-CHA-C4A
29	FB	203	PEB	ND-C1D-CHC-C4C
29	FB	203	PEB	C2D-C1D-CHC-C4C
29	FB	203	PEB	NC-C1C-CHB-C4B
29	FB	203	PEB	C2C-C1C-CHB-C4B
29	FB	203	PEB	C2A-C3A-CAA-CBA
29	FB	203	PEB	C4A-C3A-CAA-CBA
29	FB	203	PEB	NB-C1B-CHA-C4A
29	FB	203	PEB	C2B-C1B-CHA-C4A
29	GB	201	PEB	NB-C1B-CHA-C4A
29	GB	201	PEB	C2B-C1B-CHA-C4A
29	GB	202	PEB	NC-C1C-CHB-C4B
29	GB	202	PEB	C2C-C1C-CHB-C4B
29	GB	202	PEB	NB-C1B-CHA-C4A
29	GB	202	PEB	C2B-C1B-CHA-C4A
29	HB	201	PEB	ND-C1D-CHC-C4C
29	HB	201	PEB	C2D-C1D-CHC-C4C
29	HB	201	PEB	NB-C1B-CHA-C4A
29	HB	201	PEB	C2B-C1B-CHA-C4A
29	HB	202	PEB	C4A-C3A-CAA-CBA
29	HB	202	PEB	NB-C1B-CHA-C4A
29	HB	202	PEB	C2B-C1B-CHA-C4A
29	HB	203	PEB	ND-C1D-CHC-C4C
29	HB	203	PEB	C2D-C1D-CHC-C4C
29	HB	203	PEB	NC-C1C-CHB-C4B
29	HB	203	PEB	C2C-C1C-CHB-C4B
29	HB	203	PEB	C2A-C3A-CAA-CBA
29	HB	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	HB	203	PEB	NB-C1B-CHA-C4A
29	HB	203	PEB	C2B-C1B-CHA-C4A
29	IB	201	PEB	NB-C1B-CHA-C4A
29	IB	201	PEB	C2B-C1B-CHA-C4A
29	IB	202	PEB	NC-C1C-CHB-C4B
29	IB	202	PEB	C2C-C1C-CHB-C4B
29	IB	202	PEB	NB-C1B-CHA-C4A
29	IB	202	PEB	C2B-C1B-CHA-C4A
29	JB	201	PEB	ND-C1D-CHC-C4C
29	JB	201	PEB	C2D-C1D-CHC-C4C
29	JB	201	PEB	NB-C1B-CHA-C4A
29	JB	201	PEB	C2B-C1B-CHA-C4A
29	JB	202	PEB	C4A-C3A-CAA-CBA
29	JB	202	PEB	NB-C1B-CHA-C4A
29	JB	202	PEB	C2B-C1B-CHA-C4A
29	JB	203	PEB	ND-C1D-CHC-C4C
29	JB	203	PEB	C2D-C1D-CHC-C4C
29	JB	203	PEB	NC-C1C-CHB-C4B
29	JB	203	PEB	C2C-C1C-CHB-C4B
29	JB	203	PEB	C2A-C3A-CAA-CBA
29	JB	203	PEB	C4A-C3A-CAA-CBA
29	JB	203	PEB	NB-C1B-CHA-C4A
29	JB	203	PEB	C2B-C1B-CHA-C4A
29	KB	201	PEB	NB-C1B-CHA-C4A
29	KB	201	PEB	C2B-C1B-CHA-C4A
29	KB	202	PEB	NC-C1C-CHB-C4B
29	KB	202	PEB	C2C-C1C-CHB-C4B
29	KB	202	PEB	NB-C1B-CHA-C4A
29	KB	202	PEB	C2B-C1B-CHA-C4A
29	KB	203	PEB	C4A-C3A-CAA-CBA
29	KB	203	PEB	NB-C1B-CHA-C4A
29	KB	203	PEB	C2B-C1B-CHA-C4A
29	LB	201	PEB	ND-C1D-CHC-C4C
29	LB	201	PEB	C2D-C1D-CHC-C4C
29	LB	201	PEB	NB-C1B-CHA-C4A
29	LB	201	PEB	C2B-C1B-CHA-C4A
29	LB	202	PEB	C4A-C3A-CAA-CBA
29	LB	202	PEB	NB-C1B-CHA-C4A
29	LB	202	PEB	C2B-C1B-CHA-C4A
29	LB	203	PEB	ND-C1D-CHC-C4C
29	LB	203	PEB	C2D-C1D-CHC-C4C
29	LB	203	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	LB	203	PEB	C2C-C1C-CHB-C4B
29	LB	203	PEB	C2A-C3A-CAA-CBA
29	LB	203	PEB	C4A-C3A-CAA-CBA
29	LB	203	PEB	NB-C1B-CHA-C4A
29	LB	203	PEB	C2B-C1B-CHA-C4A
29	MB	201	PEB	NB-C1B-CHA-C4A
29	MB	201	PEB	C2B-C1B-CHA-C4A
29	MB	202	PEB	NC-C1C-CHB-C4B
29	MB	202	PEB	C2C-C1C-CHB-C4B
29	MB	202	PEB	NB-C1B-CHA-C4A
29	MB	202	PEB	C2B-C1B-CHA-C4A
29	NB	201	PEB	ND-C1D-CHC-C4C
29	NB	201	PEB	C2D-C1D-CHC-C4C
29	NB	201	PEB	NB-C1B-CHA-C4A
29	NB	201	PEB	C2B-C1B-CHA-C4A
29	NB	202	PEB	ND-C1D-CHC-C4C
29	NB	202	PEB	C2D-C1D-CHC-C4C
29	NB	202	PEB	NC-C1C-CHB-C4B
29	NB	202	PEB	C2C-C1C-CHB-C4B
29	NB	202	PEB	C2A-C3A-CAA-CBA
29	NB	202	PEB	C4A-C3A-CAA-CBA
29	NB	202	PEB	NB-C1B-CHA-C4A
29	NB	202	PEB	C2B-C1B-CHA-C4A
29	OB	201	PEB	NB-C1B-CHA-C4A
29	OB	201	PEB	C2B-C1B-CHA-C4A
29	OB	202	PEB	NC-C1C-CHB-C4B
29	OB	202	PEB	C2C-C1C-CHB-C4B
29	OB	202	PEB	NB-C1B-CHA-C4A
29	OB	202	PEB	C2B-C1B-CHA-C4A
29	PB	201	PEB	ND-C1D-CHC-C4C
29	PB	201	PEB	C2D-C1D-CHC-C4C
29	PB	201	PEB	NB-C1B-CHA-C4A
29	PB	201	PEB	C2B-C1B-CHA-C4A
29	PB	202	PEB	ND-C1D-CHC-C4C
29	PB	202	PEB	C2D-C1D-CHC-C4C
29	PB	202	PEB	NC-C1C-CHB-C4B
29	PB	202	PEB	C2C-C1C-CHB-C4B
29	PB	202	PEB	C2A-C3A-CAA-CBA
29	PB	202	PEB	C4A-C3A-CAA-CBA
29	PB	202	PEB	NB-C1B-CHA-C4A
29	PB	202	PEB	C2B-C1B-CHA-C4A
29	QB	202	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	QB	202	PEB	NB-C1B-CHA-C4A
29	QB	202	PEB	C2B-C1B-CHA-C4A
29	QB	203	PEB	NB-C1B-CHA-C4A
29	QB	203	PEB	C2B-C1B-CHA-C4A
29	QB	204	PEB	NC-C1C-CHB-C4B
29	QB	204	PEB	C2C-C1C-CHB-C4B
29	QB	204	PEB	NB-C1B-CHA-C4A
29	QB	204	PEB	C2B-C1B-CHA-C4A
29	RB	201	PEB	ND-C1D-CHC-C4C
29	RB	201	PEB	C2D-C1D-CHC-C4C
29	RB	201	PEB	NB-C1B-CHA-C4A
29	RB	201	PEB	C2B-C1B-CHA-C4A
29	RB	202	PEB	C4A-C3A-CAA-CBA
29	RB	202	PEB	NB-C1B-CHA-C4A
29	RB	202	PEB	C2B-C1B-CHA-C4A
29	RB	203	PEB	ND-C1D-CHC-C4C
29	RB	203	PEB	C2D-C1D-CHC-C4C
29	RB	203	PEB	NC-C1C-CHB-C4B
29	RB	203	PEB	C2C-C1C-CHB-C4B
29	RB	203	PEB	C2A-C3A-CAA-CBA
29	RB	203	PEB	C4A-C3A-CAA-CBA
29	RB	203	PEB	NB-C1B-CHA-C4A
29	RB	203	PEB	C2B-C1B-CHA-C4A
29	SB	201	PEB	NB-C1B-CHA-C4A
29	SB	201	PEB	C2B-C1B-CHA-C4A
29	SB	202	PEB	NC-C1C-CHB-C4B
29	SB	202	PEB	C2C-C1C-CHB-C4B
29	SB	202	PEB	NB-C1B-CHA-C4A
29	SB	202	PEB	C2B-C1B-CHA-C4A
29	TB	201	PEB	ND-C1D-CHC-C4C
29	TB	201	PEB	C2D-C1D-CHC-C4C
29	TB	201	PEB	NB-C1B-CHA-C4A
29	TB	201	PEB	C2B-C1B-CHA-C4A
29	TB	202	PEB	C4A-C3A-CAA-CBA
29	TB	202	PEB	NB-C1B-CHA-C4A
29	TB	202	PEB	C2B-C1B-CHA-C4A
29	TB	203	PEB	ND-C1D-CHC-C4C
29	TB	203	PEB	C2D-C1D-CHC-C4C
29	TB	203	PEB	NC-C1C-CHB-C4B
29	TB	203	PEB	C2C-C1C-CHB-C4B
29	TB	203	PEB	C2A-C3A-CAA-CBA
29	TB	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	TB	203	PEB	NB-C1B-CHA-C4A
29	TB	203	PEB	C2B-C1B-CHA-C4A
29	UB	201	PEB	NB-C1B-CHA-C4A
29	UB	201	PEB	C2B-C1B-CHA-C4A
29	UB	202	PEB	NC-C1C-CHB-C4B
29	UB	202	PEB	C2C-C1C-CHB-C4B
29	UB	202	PEB	NB-C1B-CHA-C4A
29	UB	202	PEB	C2B-C1B-CHA-C4A
29	VB	201	PEB	ND-C1D-CHC-C4C
29	VB	201	PEB	C2D-C1D-CHC-C4C
29	VB	201	PEB	NB-C1B-CHA-C4A
29	VB	201	PEB	C2B-C1B-CHA-C4A
29	VB	202	PEB	C4A-C3A-CAA-CBA
29	VB	202	PEB	NB-C1B-CHA-C4A
29	VB	202	PEB	C2B-C1B-CHA-C4A
29	VB	203	PEB	ND-C1D-CHC-C4C
29	VB	203	PEB	C2D-C1D-CHC-C4C
29	VB	203	PEB	NC-C1C-CHB-C4B
29	VB	203	PEB	C2C-C1C-CHB-C4B
29	VB	203	PEB	C2A-C3A-CAA-CBA
29	VB	203	PEB	C4A-C3A-CAA-CBA
29	VB	203	PEB	NB-C1B-CHA-C4A
29	VB	203	PEB	C2B-C1B-CHA-C4A
29	WB	201	PEB	NB-C1B-CHA-C4A
29	WB	201	PEB	C2B-C1B-CHA-C4A
29	WB	202	PEB	NC-C1C-CHB-C4B
29	WB	202	PEB	C2C-C1C-CHB-C4B
29	WB	202	PEB	NB-C1B-CHA-C4A
29	WB	202	PEB	C2B-C1B-CHA-C4A
29	XB	201	PEB	ND-C1D-CHC-C4C
29	XB	201	PEB	C2D-C1D-CHC-C4C
29	XB	201	PEB	NB-C1B-CHA-C4A
29	XB	201	PEB	C2B-C1B-CHA-C4A
29	XB	202	PEB	ND-C1D-CHC-C4C
29	XB	202	PEB	C2D-C1D-CHC-C4C
29	XB	202	PEB	NC-C1C-CHB-C4B
29	XB	202	PEB	C2C-C1C-CHB-C4B
29	XB	202	PEB	C2A-C3A-CAA-CBA
29	XB	202	PEB	C4A-C3A-CAA-CBA
29	XB	202	PEB	NB-C1B-CHA-C4A
29	XB	202	PEB	C2B-C1B-CHA-C4A
29	YB	201	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	YB	201	PEB	NB-C1B-CHA-C4A
29	YB	201	PEB	C2B-C1B-CHA-C4A
29	YB	202	PEB	NB-C1B-CHA-C4A
29	YB	202	PEB	C2B-C1B-CHA-C4A
29	YB	203	PEB	NC-C1C-CHB-C4B
29	YB	203	PEB	C2C-C1C-CHB-C4B
29	YB	203	PEB	NB-C1B-CHA-C4A
29	YB	203	PEB	C2B-C1B-CHA-C4A
29	ZB	201	PEB	ND-C1D-CHC-C4C
29	ZB	201	PEB	C2D-C1D-CHC-C4C
29	ZB	201	PEB	NB-C1B-CHA-C4A
29	ZB	201	PEB	C2B-C1B-CHA-C4A
29	ZB	202	PEB	C4A-C3A-CAA-CBA
29	ZB	202	PEB	NB-C1B-CHA-C4A
29	ZB	202	PEB	C2B-C1B-CHA-C4A
29	ZB	203	PEB	ND-C1D-CHC-C4C
29	ZB	203	PEB	C2D-C1D-CHC-C4C
29	ZB	203	PEB	NC-C1C-CHB-C4B
29	ZB	203	PEB	C2C-C1C-CHB-C4B
29	ZB	203	PEB	C2A-C3A-CAA-CBA
29	ZB	203	PEB	C4A-C3A-CAA-CBA
29	ZB	203	PEB	NB-C1B-CHA-C4A
29	ZB	203	PEB	C2B-C1B-CHA-C4A
29	aB	201	PEB	NB-C1B-CHA-C4A
29	aB	201	PEB	C2B-C1B-CHA-C4A
29	aB	202	PEB	NC-C1C-CHB-C4B
29	aB	202	PEB	C2C-C1C-CHB-C4B
29	aB	202	PEB	NB-C1B-CHA-C4A
29	aB	202	PEB	C2B-C1B-CHA-C4A
29	aB	203	PEB	C4A-C3A-CAA-CBA
29	aB	203	PEB	NB-C1B-CHA-C4A
29	aB	203	PEB	C2B-C1B-CHA-C4A
29	cB	201	PEB	ND-C1D-CHC-C4C
29	cB	201	PEB	C2D-C1D-CHC-C4C
29	cB	201	PEB	NB-C1B-CHA-C4A
29	cB	201	PEB	C2B-C1B-CHA-C4A
29	cB	202	PEB	C4A-C3A-CAA-CBA
29	cB	202	PEB	NB-C1B-CHA-C4A
29	cB	202	PEB	C2B-C1B-CHA-C4A
29	cB	203	PEB	ND-C1D-CHC-C4C
29	cB	203	PEB	C2D-C1D-CHC-C4C
29	cB	203	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	cB	203	PEB	C2C-C1C-CHB-C4B
29	cB	203	PEB	C2A-C3A-CAA-CBA
29	cB	203	PEB	C4A-C3A-CAA-CBA
29	cB	203	PEB	NB-C1B-CHA-C4A
29	cB	203	PEB	C2B-C1B-CHA-C4A
29	dB	201	PEB	NB-C1B-CHA-C4A
29	dB	201	PEB	C2B-C1B-CHA-C4A
29	dB	202	PEB	NC-C1C-CHB-C4B
29	dB	202	PEB	C2C-C1C-CHB-C4B
29	dB	202	PEB	NB-C1B-CHA-C4A
29	dB	202	PEB	C2B-C1B-CHA-C4A
29	eB	201	PEB	ND-C1D-CHC-C4C
29	eB	201	PEB	C2D-C1D-CHC-C4C
29	eB	201	PEB	NB-C1B-CHA-C4A
29	eB	201	PEB	C2B-C1B-CHA-C4A
29	eB	202	PEB	ND-C1D-CHC-C4C
29	eB	202	PEB	C2D-C1D-CHC-C4C
29	eB	202	PEB	NC-C1C-CHB-C4B
29	eB	202	PEB	C2C-C1C-CHB-C4B
29	eB	202	PEB	C2A-C3A-CAA-CBA
29	eB	202	PEB	C4A-C3A-CAA-CBA
29	eB	202	PEB	NB-C1B-CHA-C4A
29	eB	202	PEB	C2B-C1B-CHA-C4A
29	fB	201	PEB	NB-C1B-CHA-C4A
29	fB	201	PEB	C2B-C1B-CHA-C4A
29	fB	202	PEB	NC-C1C-CHB-C4B
29	fB	202	PEB	C2C-C1C-CHB-C4B
29	fB	202	PEB	NB-C1B-CHA-C4A
29	fB	202	PEB	C2B-C1B-CHA-C4A
29	gB	201	PEB	ND-C1D-CHC-C4C
29	gB	201	PEB	C2D-C1D-CHC-C4C
29	gB	201	PEB	NB-C1B-CHA-C4A
29	gB	201	PEB	C2B-C1B-CHA-C4A
29	gB	202	PEB	C4A-C3A-CAA-CBA
29	gB	202	PEB	NB-C1B-CHA-C4A
29	gB	202	PEB	C2B-C1B-CHA-C4A
29	gB	203	PEB	ND-C1D-CHC-C4C
29	gB	203	PEB	C2D-C1D-CHC-C4C
29	gB	203	PEB	NC-C1C-CHB-C4B
29	gB	203	PEB	C2C-C1C-CHB-C4B
29	gB	203	PEB	C2A-C3A-CAA-CBA
29	gB	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	gB	203	PEB	NB-C1B-CHA-C4A
29	gB	203	PEB	C2B-C1B-CHA-C4A
29	hB	201	PEB	NB-C1B-CHA-C4A
29	hB	201	PEB	C2B-C1B-CHA-C4A
29	hB	202	PEB	NC-C1C-CHB-C4B
29	hB	202	PEB	C2C-C1C-CHB-C4B
29	hB	202	PEB	NB-C1B-CHA-C4A
29	hB	202	PEB	C2B-C1B-CHA-C4A
29	iB	201	PEB	ND-C1D-CHC-C4C
29	iB	201	PEB	C2D-C1D-CHC-C4C
29	iB	201	PEB	NB-C1B-CHA-C4A
29	iB	201	PEB	C2B-C1B-CHA-C4A
29	iB	202	PEB	C4A-C3A-CAA-CBA
29	iB	202	PEB	NB-C1B-CHA-C4A
29	iB	202	PEB	C2B-C1B-CHA-C4A
29	iB	203	PEB	ND-C1D-CHC-C4C
29	iB	203	PEB	C2D-C1D-CHC-C4C
29	iB	203	PEB	NC-C1C-CHB-C4B
29	iB	203	PEB	C2C-C1C-CHB-C4B
29	iB	203	PEB	C2A-C3A-CAA-CBA
29	iB	203	PEB	C4A-C3A-CAA-CBA
29	iB	203	PEB	NB-C1B-CHA-C4A
29	iB	203	PEB	C2B-C1B-CHA-C4A
29	jB	201	PEB	NB-C1B-CHA-C4A
29	jB	201	PEB	C2B-C1B-CHA-C4A
29	jB	202	PEB	NC-C1C-CHB-C4B
29	jB	202	PEB	C2C-C1C-CHB-C4B
29	jB	202	PEB	NB-C1B-CHA-C4A
29	jB	202	PEB	C2B-C1B-CHA-C4A
29	kB	201	PEB	ND-C1D-CHC-C4C
29	kB	201	PEB	C2D-C1D-CHC-C4C
29	kB	201	PEB	NB-C1B-CHA-C4A
29	kB	201	PEB	C2B-C1B-CHA-C4A
29	kB	202	PEB	C4A-C3A-CAA-CBA
29	kB	202	PEB	NB-C1B-CHA-C4A
29	kB	202	PEB	C2B-C1B-CHA-C4A
29	kB	203	PEB	ND-C1D-CHC-C4C
29	kB	203	PEB	C2D-C1D-CHC-C4C
29	kB	203	PEB	NC-C1C-CHB-C4B
29	kB	203	PEB	C2C-C1C-CHB-C4B
29	kB	203	PEB	C2A-C3A-CAA-CBA
29	kB	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	kB	203	PEB	NB-C1B-CHA-C4A
29	kB	203	PEB	C2B-C1B-CHA-C4A
29	lB	201	PEB	NB-C1B-CHA-C4A
29	lB	201	PEB	C2B-C1B-CHA-C4A
29	lB	202	PEB	NC-C1C-CHB-C4B
29	lB	202	PEB	C2C-C1C-CHB-C4B
29	lB	202	PEB	NB-C1B-CHA-C4A
29	lB	202	PEB	C2B-C1B-CHA-C4A
29	mB	201	PEB	ND-C1D-CHC-C4C
29	mB	201	PEB	C2D-C1D-CHC-C4C
29	mB	201	PEB	NB-C1B-CHA-C4A
29	mB	201	PEB	C2B-C1B-CHA-C4A
29	mB	202	PEB	C4A-C3A-CAA-CBA
29	mB	202	PEB	NB-C1B-CHA-C4A
29	mB	202	PEB	C2B-C1B-CHA-C4A
29	mB	203	PEB	ND-C1D-CHC-C4C
29	mB	203	PEB	C2D-C1D-CHC-C4C
29	mB	203	PEB	NC-C1C-CHB-C4B
29	mB	203	PEB	C2C-C1C-CHB-C4B
29	mB	203	PEB	C2A-C3A-CAA-CBA
29	mB	203	PEB	C4A-C3A-CAA-CBA
29	mB	203	PEB	NB-C1B-CHA-C4A
29	mB	203	PEB	C2B-C1B-CHA-C4A
29	AC	201	PEB	NB-C1B-CHA-C4A
29	AC	201	PEB	C2B-C1B-CHA-C4A
29	AC	202	PEB	NB-C1B-CHA-C4A
29	AC	202	PEB	C2B-C1B-CHA-C4A
29	AC	203	PEB	NC-C1C-CHB-C4B
29	AC	203	PEB	C2C-C1C-CHB-C4B
29	AC	203	PEB	C2A-C3A-CAA-CBA
29	AC	203	PEB	C4A-C3A-CAA-CBA
29	AC	203	PEB	NB-C1B-CHA-C4A
29	AC	203	PEB	C2B-C1B-CHA-C4A
29	BC	201	PEB	ND-C1D-CHC-C4C
29	BC	201	PEB	C2D-C1D-CHC-C4C
29	BC	201	PEB	NB-C1B-CHA-C4A
29	BC	201	PEB	C2B-C1B-CHA-C4A
29	BC	202	PEB	NC-C1C-CHB-C4B
29	BC	202	PEB	C2C-C1C-CHB-C4B
29	BC	202	PEB	C2A-C3A-CAA-CBA
29	BC	202	PEB	C4A-C3A-CAA-CBA
29	BC	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	BC	202	PEB	C2B-C1B-CHA-C4A
29	BC	203	PEB	NC-C1C-CHB-C4B
29	BC	203	PEB	C2C-C1C-CHB-C4B
29	BC	203	PEB	NB-C1B-CHA-C4A
29	BC	203	PEB	C2B-C1B-CHA-C4A
29	CC	201	PEB	NB-C1B-CHA-C4A
29	CC	201	PEB	C2B-C1B-CHA-C4A
29	CC	202	PEB	NB-C1B-CHA-C4A
29	CC	202	PEB	C2B-C1B-CHA-C4A
29	DC	201	PEB	ND-C1D-CHC-C4C
29	DC	201	PEB	C2D-C1D-CHC-C4C
29	DC	201	PEB	NB-C1B-CHA-C4A
29	DC	201	PEB	C2B-C1B-CHA-C4A
29	DC	202	PEB	NC-C1C-CHB-C4B
29	DC	202	PEB	C2C-C1C-CHB-C4B
29	DC	202	PEB	NB-C1B-CHA-C4A
29	DC	202	PEB	C2B-C1B-CHA-C4A
29	EC	201	PEB	NB-C1B-CHA-C4A
29	EC	201	PEB	C2B-C1B-CHA-C4A
29	EC	202	PEB	NB-C1B-CHA-C4A
29	EC	202	PEB	C2B-C1B-CHA-C4A
29	FC	201	PEB	ND-C1D-CHC-C4C
29	FC	201	PEB	C2D-C1D-CHC-C4C
29	FC	201	PEB	NB-C1B-CHA-C4A
29	FC	201	PEB	C2B-C1B-CHA-C4A
29	FC	202	PEB	NC-C1C-CHB-C4B
29	FC	202	PEB	C2C-C1C-CHB-C4B
29	FC	202	PEB	C2A-C3A-CAA-CBA
29	FC	202	PEB	C4A-C3A-CAA-CBA
29	FC	202	PEB	NB-C1B-CHA-C4A
29	FC	202	PEB	C2B-C1B-CHA-C4A
29	FC	203	PEB	NC-C1C-CHB-C4B
29	FC	203	PEB	C2C-C1C-CHB-C4B
29	FC	203	PEB	NB-C1B-CHA-C4A
29	FC	203	PEB	C2B-C1B-CHA-C4A
29	GC	201	PEB	NB-C1B-CHA-C4A
29	GC	201	PEB	C2B-C1B-CHA-C4A
29	GC	202	PEB	NB-C1B-CHA-C4A
29	GC	202	PEB	C2B-C1B-CHA-C4A
29	HC	201	PEB	ND-C1D-CHC-C4C
29	HC	201	PEB	C2D-C1D-CHC-C4C
29	HC	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	HC	201	PEB	C2B-C1B-CHA-C4A
29	HC	202	PEB	NC-C1C-CHB-C4B
29	HC	202	PEB	C2C-C1C-CHB-C4B
29	HC	202	PEB	C2A-C3A-CAA-CBA
29	HC	202	PEB	C4A-C3A-CAA-CBA
29	HC	202	PEB	NB-C1B-CHA-C4A
29	HC	202	PEB	C2B-C1B-CHA-C4A
29	HC	203	PEB	NC-C1C-CHB-C4B
29	HC	203	PEB	C2C-C1C-CHB-C4B
29	HC	203	PEB	NB-C1B-CHA-C4A
29	HC	203	PEB	C2B-C1B-CHA-C4A
29	IC	201	PEB	NB-C1B-CHA-C4A
29	IC	201	PEB	C2B-C1B-CHA-C4A
29	IC	202	PEB	NB-C1B-CHA-C4A
29	IC	202	PEB	C2B-C1B-CHA-C4A
29	JC	201	PEB	ND-C1D-CHC-C4C
29	JC	201	PEB	C2D-C1D-CHC-C4C
29	JC	201	PEB	NB-C1B-CHA-C4A
29	JC	201	PEB	C2B-C1B-CHA-C4A
29	JC	202	PEB	NC-C1C-CHB-C4B
29	JC	202	PEB	C2C-C1C-CHB-C4B
29	JC	202	PEB	NB-C1B-CHA-C4A
29	JC	202	PEB	C2B-C1B-CHA-C4A
29	KC	201	PEB	NC-C1C-CHB-C4B
29	KC	201	PEB	C2C-C1C-CHB-C4B
29	KC	201	PEB	C2A-C3A-CAA-CBA
29	KC	201	PEB	C4A-C3A-CAA-CBA
29	KC	201	PEB	NB-C1B-CHA-C4A
29	KC	201	PEB	C2B-C1B-CHA-C4A
29	KC	202	PEB	NB-C1B-CHA-C4A
29	KC	202	PEB	C2B-C1B-CHA-C4A
29	KC	203	PEB	NB-C1B-CHA-C4A
29	KC	203	PEB	C2B-C1B-CHA-C4A
29	LC	201	PEB	ND-C1D-CHC-C4C
29	LC	201	PEB	C2D-C1D-CHC-C4C
29	LC	201	PEB	NB-C1B-CHA-C4A
29	LC	201	PEB	C2B-C1B-CHA-C4A
29	LC	202	PEB	NC-C1C-CHB-C4B
29	LC	202	PEB	C2C-C1C-CHB-C4B
29	LC	202	PEB	C2A-C3A-CAA-CBA
29	LC	202	PEB	C4A-C3A-CAA-CBA
29	LC	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	LC	202	PEB	C2B-C1B-CHA-C4A
29	LC	203	PEB	NC-C1C-CHB-C4B
29	LC	203	PEB	C2C-C1C-CHB-C4B
29	LC	203	PEB	NB-C1B-CHA-C4A
29	LC	203	PEB	C2B-C1B-CHA-C4A
29	dD	401	PEB	NB-C1B-CHA-C4A
29	dD	401	PEB	C2B-C1B-CHA-C4A
29	BD	201	PEB	ND-C1D-CHC-C4C
29	BD	201	PEB	C2D-C1D-CHC-C4C
29	BD	201	PEB	NC-C1C-CHB-C4B
29	BD	201	PEB	NB-C1B-CHA-C4A
29	BD	201	PEB	C2B-C1B-CHA-C4A
29	BD	202	PEB	NC-C1C-CHB-C4B
29	BD	202	PEB	C2C-C1C-CHB-C4B
29	BD	202	PEB	NB-C1B-CHA-C4A
29	BD	202	PEB	C2B-C1B-CHA-C4A
29	CD	201	PEB	NB-C1B-CHA-C4A
29	CD	201	PEB	C2B-C1B-CHA-C4A
29	CD	202	PEB	NC-C1C-CHB-C4B
29	CD	202	PEB	C2C-CAC-CBC-CGC
29	CD	202	PEB	C4A-C3A-CAA-CBA
29	CD	202	PEB	NB-C1B-CHA-C4A
29	CD	202	PEB	C2B-C1B-CHA-C4A
29	CD	203	PEB	NC-C1C-CHB-C4B
29	CD	203	PEB	C2C-C1C-CHB-C4B
29	CD	203	PEB	NB-C1B-CHA-C4A
29	CD	203	PEB	C2B-C1B-CHA-C4A
29	CD	203	PEB	C3B-CAB-CBB-CGB
29	DD	201	PEB	ND-C1D-CHC-C4C
29	DD	201	PEB	C2D-C1D-CHC-C4C
29	DD	201	PEB	NC-C1C-CHB-C4B
29	DD	201	PEB	NB-C1B-CHA-C4A
29	DD	201	PEB	C2B-C1B-CHA-C4A
29	DD	202	PEB	NC-C1C-CHB-C4B
29	DD	202	PEB	C2C-C1C-CHB-C4B
29	DD	202	PEB	NB-C1B-CHA-C4A
29	DD	202	PEB	C2B-C1B-CHA-C4A
29	ED	201	PEB	NC-C1C-CHB-C4B
29	ED	201	PEB	C2C-CAC-CBC-CGC
29	ED	201	PEB	C4A-C3A-CAA-CBA
29	ED	201	PEB	NB-C1B-CHA-C4A
29	ED	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	ED	202	PEB	NC-C1C-CHB-C4B
29	ED	202	PEB	C2C-C1C-CHB-C4B
29	ED	202	PEB	NB-C1B-CHA-C4A
29	ED	202	PEB	C2B-C1B-CHA-C4A
29	ED	202	PEB	C3B-CAB-CBB-CGB
29	FD	201	PEB	ND-C1D-CHC-C4C
29	FD	201	PEB	C2D-C1D-CHC-C4C
29	FD	201	PEB	NC-C1C-CHB-C4B
29	FD	201	PEB	NB-C1B-CHA-C4A
29	FD	201	PEB	C2B-C1B-CHA-C4A
29	FD	202	PEB	NC-C1C-CHB-C4B
29	FD	202	PEB	C2C-C1C-CHB-C4B
29	FD	202	PEB	NB-C1B-CHA-C4A
29	FD	202	PEB	C2B-C1B-CHA-C4A
29	GD	201	PEB	NB-C1B-CHA-C4A
29	GD	201	PEB	C2B-C1B-CHA-C4A
29	GD	202	PEB	NC-C1C-CHB-C4B
29	GD	202	PEB	C2C-CAC-CBC-CGC
29	GD	202	PEB	C4A-C3A-CAA-CBA
29	GD	202	PEB	NB-C1B-CHA-C4A
29	GD	202	PEB	C2B-C1B-CHA-C4A
29	GD	203	PEB	NC-C1C-CHB-C4B
29	GD	203	PEB	C2C-C1C-CHB-C4B
29	GD	203	PEB	NB-C1B-CHA-C4A
29	GD	203	PEB	C2B-C1B-CHA-C4A
29	GD	203	PEB	C3B-CAB-CBB-CGB
29	HD	201	PEB	ND-C1D-CHC-C4C
29	HD	201	PEB	C2D-C1D-CHC-C4C
29	HD	201	PEB	NC-C1C-CHB-C4B
29	HD	201	PEB	NB-C1B-CHA-C4A
29	HD	201	PEB	C2B-C1B-CHA-C4A
29	HD	202	PEB	NC-C1C-CHB-C4B
29	HD	202	PEB	C2C-C1C-CHB-C4B
29	HD	202	PEB	NB-C1B-CHA-C4A
29	HD	202	PEB	C2B-C1B-CHA-C4A
29	ID	201	PEB	NB-C1B-CHA-C4A
29	ID	201	PEB	C2B-C1B-CHA-C4A
29	ID	202	PEB	NC-C1C-CHB-C4B
29	ID	202	PEB	C2C-CAC-CBC-CGC
29	ID	202	PEB	C4A-C3A-CAA-CBA
29	ID	202	PEB	NB-C1B-CHA-C4A
29	ID	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	ID	203	PEB	NC-C1C-CHB-C4B
29	ID	203	PEB	C2C-C1C-CHB-C4B
29	ID	203	PEB	NB-C1B-CHA-C4A
29	ID	203	PEB	C2B-C1B-CHA-C4A
29	ID	203	PEB	C3B-CAB-CBB-CGB
29	JD	201	PEB	ND-C1D-CHC-C4C
29	JD	201	PEB	C2D-C1D-CHC-C4C
29	JD	201	PEB	NC-C1C-CHB-C4B
29	JD	201	PEB	NB-C1B-CHA-C4A
29	JD	201	PEB	C2B-C1B-CHA-C4A
29	JD	202	PEB	NC-C1C-CHB-C4B
29	JD	202	PEB	C2C-C1C-CHB-C4B
29	JD	202	PEB	NB-C1B-CHA-C4A
29	JD	202	PEB	C2B-C1B-CHA-C4A
29	KD	201	PEB	NB-C1B-CHA-C4A
29	KD	201	PEB	C2B-C1B-CHA-C4A
29	KD	202	PEB	NC-C1C-CHB-C4B
29	KD	202	PEB	C2C-CAC-CBC-CGC
29	KD	202	PEB	C4A-C3A-CAA-CBA
29	KD	202	PEB	NB-C1B-CHA-C4A
29	KD	202	PEB	C2B-C1B-CHA-C4A
29	KD	203	PEB	NC-C1C-CHB-C4B
29	KD	203	PEB	C2C-C1C-CHB-C4B
29	KD	203	PEB	NB-C1B-CHA-C4A
29	KD	203	PEB	C2B-C1B-CHA-C4A
29	KD	203	PEB	C3B-CAB-CBB-CGB
29	LD	201	PEB	ND-C1D-CHC-C4C
29	LD	201	PEB	C2D-C1D-CHC-C4C
29	LD	201	PEB	NC-C1C-CHB-C4B
29	LD	201	PEB	NB-C1B-CHA-C4A
29	LD	201	PEB	C2B-C1B-CHA-C4A
29	LD	202	PEB	NC-C1C-CHB-C4B
29	LD	202	PEB	C2C-C1C-CHB-C4B
29	LD	202	PEB	NB-C1B-CHA-C4A
29	LD	202	PEB	C2B-C1B-CHA-C4A
29	MD	201	PEB	NB-C1B-CHA-C4A
29	MD	201	PEB	C2B-C1B-CHA-C4A
29	MD	202	PEB	NC-C1C-CHB-C4B
29	MD	202	PEB	C2C-CAC-CBC-CGC
29	MD	202	PEB	C4A-C3A-CAA-CBA
29	MD	202	PEB	NB-C1B-CHA-C4A
29	MD	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	MD	203	PEB	NC-C1C-CHB-C4B
29	MD	203	PEB	C2C-C1C-CHB-C4B
29	MD	203	PEB	NB-C1B-CHA-C4A
29	MD	203	PEB	C2B-C1B-CHA-C4A
29	MD	203	PEB	C3B-CAB-CBB-CGB
29	AE	201	PEB	NB-C1B-CHA-C4A
29	AE	201	PEB	C2B-C1B-CHA-C4A
29	AE	202	PEB	NB-C1B-CHA-C4A
29	AE	202	PEB	C2B-C1B-CHA-C4A
29	AE	203	PEB	NC-C1C-CHB-C4B
29	AE	203	PEB	C2C-C1C-CHB-C4B
29	AE	203	PEB	C2A-C3A-CAA-CBA
29	AE	203	PEB	C4A-C3A-CAA-CBA
29	AE	203	PEB	NB-C1B-CHA-C4A
29	AE	203	PEB	C2B-C1B-CHA-C4A
29	BE	201	PEB	ND-C1D-CHC-C4C
29	BE	201	PEB	C2D-C1D-CHC-C4C
29	BE	201	PEB	NB-C1B-CHA-C4A
29	BE	201	PEB	C2B-C1B-CHA-C4A
29	BE	202	PEB	NC-C1C-CHB-C4B
29	BE	202	PEB	C2C-C1C-CHB-C4B
29	BE	202	PEB	C2A-C3A-CAA-CBA
29	BE	202	PEB	C4A-C3A-CAA-CBA
29	BE	202	PEB	NB-C1B-CHA-C4A
29	BE	202	PEB	C2B-C1B-CHA-C4A
29	BE	203	PEB	NC-C1C-CHB-C4B
29	BE	203	PEB	C2C-C1C-CHB-C4B
29	BE	203	PEB	NB-C1B-CHA-C4A
29	BE	203	PEB	C2B-C1B-CHA-C4A
29	CE	201	PEB	NB-C1B-CHA-C4A
29	CE	201	PEB	C2B-C1B-CHA-C4A
29	CE	202	PEB	NB-C1B-CHA-C4A
29	CE	202	PEB	C2B-C1B-CHA-C4A
29	DE	201	PEB	ND-C1D-CHC-C4C
29	DE	201	PEB	C2D-C1D-CHC-C4C
29	DE	201	PEB	NB-C1B-CHA-C4A
29	DE	201	PEB	C2B-C1B-CHA-C4A
29	DE	202	PEB	NC-C1C-CHB-C4B
29	DE	202	PEB	C2C-C1C-CHB-C4B
29	DE	202	PEB	NB-C1B-CHA-C4A
29	DE	202	PEB	C2B-C1B-CHA-C4A
29	EE	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	EE	201	PEB	C2B-C1B-CHA-C4A
29	EE	202	PEB	NB-C1B-CHA-C4A
29	EE	202	PEB	C2B-C1B-CHA-C4A
29	FE	201	PEB	ND-C1D-CHC-C4C
29	FE	201	PEB	C2D-C1D-CHC-C4C
29	FE	201	PEB	NB-C1B-CHA-C4A
29	FE	201	PEB	C2B-C1B-CHA-C4A
29	FE	202	PEB	NC-C1C-CHB-C4B
29	FE	202	PEB	C2C-C1C-CHB-C4B
29	FE	202	PEB	C2A-C3A-CAA-CBA
29	FE	202	PEB	C4A-C3A-CAA-CBA
29	FE	202	PEB	NB-C1B-CHA-C4A
29	FE	202	PEB	C2B-C1B-CHA-C4A
29	FE	203	PEB	NC-C1C-CHB-C4B
29	FE	203	PEB	C2C-C1C-CHB-C4B
29	FE	203	PEB	NB-C1B-CHA-C4A
29	FE	203	PEB	C2B-C1B-CHA-C4A
29	GE	201	PEB	NB-C1B-CHA-C4A
29	GE	201	PEB	C2B-C1B-CHA-C4A
29	GE	202	PEB	NB-C1B-CHA-C4A
29	GE	202	PEB	C2B-C1B-CHA-C4A
29	HE	201	PEB	ND-C1D-CHC-C4C
29	HE	201	PEB	C2D-C1D-CHC-C4C
29	HE	201	PEB	NB-C1B-CHA-C4A
29	HE	201	PEB	C2B-C1B-CHA-C4A
29	HE	202	PEB	NC-C1C-CHB-C4B
29	HE	202	PEB	C2C-C1C-CHB-C4B
29	HE	202	PEB	C2A-C3A-CAA-CBA
29	HE	202	PEB	C4A-C3A-CAA-CBA
29	HE	202	PEB	NB-C1B-CHA-C4A
29	HE	202	PEB	C2B-C1B-CHA-C4A
29	HE	203	PEB	NC-C1C-CHB-C4B
29	HE	203	PEB	C2C-C1C-CHB-C4B
29	HE	203	PEB	NB-C1B-CHA-C4A
29	HE	203	PEB	C2B-C1B-CHA-C4A
29	IE	201	PEB	NB-C1B-CHA-C4A
29	IE	201	PEB	C2B-C1B-CHA-C4A
29	IE	202	PEB	NB-C1B-CHA-C4A
29	IE	202	PEB	C2B-C1B-CHA-C4A
29	JE	201	PEB	ND-C1D-CHC-C4C
29	JE	201	PEB	C2D-C1D-CHC-C4C
29	JE	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	JE	201	PEB	C2B-C1B-CHA-C4A
29	JE	202	PEB	NC-C1C-CHB-C4B
29	JE	202	PEB	C2C-C1C-CHB-C4B
29	JE	202	PEB	NB-C1B-CHA-C4A
29	JE	202	PEB	C2B-C1B-CHA-C4A
29	KE	201	PEB	NC-C1C-CHB-C4B
29	KE	201	PEB	C2C-C1C-CHB-C4B
29	KE	201	PEB	C2A-C3A-CAA-CBA
29	KE	201	PEB	C4A-C3A-CAA-CBA
29	KE	201	PEB	NB-C1B-CHA-C4A
29	KE	201	PEB	C2B-C1B-CHA-C4A
29	KE	202	PEB	NB-C1B-CHA-C4A
29	KE	202	PEB	C2B-C1B-CHA-C4A
29	KE	203	PEB	NB-C1B-CHA-C4A
29	KE	203	PEB	C2B-C1B-CHA-C4A
29	LE	201	PEB	ND-C1D-CHC-C4C
29	LE	201	PEB	C2D-C1D-CHC-C4C
29	LE	201	PEB	NB-C1B-CHA-C4A
29	LE	201	PEB	C2B-C1B-CHA-C4A
29	LE	202	PEB	NC-C1C-CHB-C4B
29	LE	202	PEB	C2C-C1C-CHB-C4B
29	LE	202	PEB	C2A-C3A-CAA-CBA
29	LE	202	PEB	C4A-C3A-CAA-CBA
29	LE	202	PEB	NB-C1B-CHA-C4A
29	LE	202	PEB	C2B-C1B-CHA-C4A
29	LE	203	PEB	NC-C1C-CHB-C4B
29	LE	203	PEB	C2C-C1C-CHB-C4B
29	LE	203	PEB	NB-C1B-CHA-C4A
29	LE	203	PEB	C2B-C1B-CHA-C4A
29	AF	301	PEB	NC-C1C-CHB-C4B
29	AF	301	PEB	C2C-C1C-CHB-C4B
29	AF	301	PEB	NB-C1B-CHA-C4A
29	AF	301	PEB	C2B-C1B-CHA-C4A
29	AF	304	PEB	C2A-C3A-CAA-CBA
29	AF	304	PEB	NB-C1B-CHA-C4A
29	AF	304	PEB	C2B-C1B-CHA-C4A
29	AF	305	PEB	NB-C1B-CHA-C4A
29	AF	305	PEB	C2B-C1B-CHA-C4A
29	DF	1002	PEB	ND-C1D-CHC-C4C
29	DF	1002	PEB	C2D-C3D-CAD-CBD
29	DF	1002	PEB	C4D-C3D-CAD-CBD
29	DF	1002	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	DF	1002	PEB	NB-C1B-CHA-C4A
29	DF	1002	PEB	C2B-C1B-CHA-C4A
29	FF	1002	PEB	ND-C1D-CHC-C4C
29	FF	1002	PEB	C2D-C3D-CAD-CBD
29	FF	1002	PEB	C4D-C3D-CAD-CBD
29	FF	1002	PEB	C4A-C3A-CAA-CBA
29	FF	1002	PEB	NB-C1B-CHA-C4A
29	FF	1002	PEB	C2B-C1B-CHA-C4A
29	HF	1002	PEB	ND-C1D-CHC-C4C
29	HF	1002	PEB	C2D-C3D-CAD-CBD
29	HF	1002	PEB	C4D-C3D-CAD-CBD
29	HF	1002	PEB	C4A-C3A-CAA-CBA
29	HF	1002	PEB	NB-C1B-CHA-C4A
29	HF	1002	PEB	C2B-C1B-CHA-C4A
29	JF	1002	PEB	ND-C1D-CHC-C4C
29	JF	1002	PEB	C2D-C3D-CAD-CBD
29	JF	1002	PEB	C4D-C3D-CAD-CBD
29	JF	1002	PEB	C4A-C3A-CAA-CBA
29	JF	1002	PEB	NB-C1B-CHA-C4A
29	JF	1002	PEB	C2B-C1B-CHA-C4A
29	LF	1002	PEB	ND-C1D-CHC-C4C
29	LF	1002	PEB	C2D-C3D-CAD-CBD
29	LF	1002	PEB	C4D-C3D-CAD-CBD
29	LF	1002	PEB	C4A-C3A-CAA-CBA
29	LF	1002	PEB	NB-C1B-CHA-C4A
29	LF	1002	PEB	C2B-C1B-CHA-C4A
29	NF	1002	PEB	ND-C1D-CHC-C4C
29	NF	1002	PEB	C2D-C3D-CAD-CBD
29	NF	1002	PEB	C4D-C3D-CAD-CBD
29	NF	1002	PEB	C4A-C3A-CAA-CBA
29	NF	1002	PEB	NB-C1B-CHA-C4A
29	NF	1002	PEB	C2B-C1B-CHA-C4A
29	OF	201	PEB	NB-C1B-CHA-C4A
29	OF	201	PEB	C2B-C1B-CHA-C4A
29	OF	202	PEB	NB-C1B-CHA-C4A
29	OF	202	PEB	C2B-C1B-CHA-C4A
29	OF	202	PEB	C3B-CAB-CBB-CGB
29	OF	203	PEB	C4A-C3A-CAA-CBA
29	OF	203	PEB	NB-C1B-CHA-C4A
29	OF	203	PEB	C2B-C1B-CHA-C4A
29	PF	201	PEB	C1C-C2C-CAC-CBC
29	PF	201	PEB	C3C-C2C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
29	PF	201	PEB	NB-C1B-CHA-C4A
29	PF	201	PEB	C2B-C1B-CHA-C4A
29	PF	202	PEB	C4A-C3A-CAA-CBA
29	PF	202	PEB	NB-C1B-CHA-C4A
29	PF	202	PEB	C2B-C1B-CHA-C4A
29	PF	203	PEB	ND-C1D-CHC-C4C
29	PF	203	PEB	NC-C1C-CHB-C4B
29	PF	203	PEB	C2C-C1C-CHB-C4B
29	PF	203	PEB	NB-C1B-CHA-C4A
29	PF	203	PEB	C2B-C1B-CHA-C4A
29	QF	201	PEB	NB-C1B-CHA-C4A
29	QF	201	PEB	C2B-C1B-CHA-C4A
29	QF	202	PEB	NB-C1B-CHA-C4A
29	QF	202	PEB	C2B-C1B-CHA-C4A
29	QF	202	PEB	C3B-CAB-CBB-CGB
29	RF	201	PEB	C1C-C2C-CAC-CBC
29	RF	201	PEB	C3C-C2C-CAC-CBC
29	RF	201	PEB	NB-C1B-CHA-C4A
29	RF	201	PEB	C2B-C1B-CHA-C4A
29	RF	202	PEB	ND-C1D-CHC-C4C
29	RF	202	PEB	NC-C1C-CHB-C4B
29	RF	202	PEB	C2C-C1C-CHB-C4B
29	RF	202	PEB	NB-C1B-CHA-C4A
29	RF	202	PEB	C2B-C1B-CHA-C4A
29	SF	201	PEB	NB-C1B-CHA-C4A
29	SF	201	PEB	C2B-C1B-CHA-C4A
29	SF	202	PEB	NB-C1B-CHA-C4A
29	SF	202	PEB	C2B-C1B-CHA-C4A
29	SF	202	PEB	C3B-CAB-CBB-CGB
29	TF	201	PEB	NB-C1B-CHA-C4A
29	TF	201	PEB	C2B-C1B-CHA-C4A
29	TF	202	PEB	ND-C1D-CHC-C4C
29	TF	202	PEB	NC-C1C-CHB-C4B
29	TF	202	PEB	C2C-C1C-CHB-C4B
29	TF	202	PEB	NB-C1B-CHA-C4A
29	TF	202	PEB	C2B-C1B-CHA-C4A
29	UF	201	PEB	C4A-C3A-CAA-CBA
29	UF	201	PEB	NB-C1B-CHA-C4A
29	UF	201	PEB	C2B-C1B-CHA-C4A
29	UF	202	PEB	NB-C1B-CHA-C4A
29	UF	202	PEB	C2B-C1B-CHA-C4A
29	UF	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	UF	203	PEB	C2B-C1B-CHA-C4A
29	UF	203	PEB	C3B-CAB-CBB-CGB
29	VF	201	PEB	C1C-C2C-CAC-CBC
29	VF	201	PEB	C3C-C2C-CAC-CBC
29	VF	201	PEB	NB-C1B-CHA-C4A
29	VF	201	PEB	C2B-C1B-CHA-C4A
29	VF	202	PEB	C4A-C3A-CAA-CBA
29	VF	202	PEB	NB-C1B-CHA-C4A
29	VF	202	PEB	C2B-C1B-CHA-C4A
29	VF	203	PEB	ND-C1D-CHC-C4C
29	VF	203	PEB	NC-C1C-CHB-C4B
29	VF	203	PEB	C2C-C1C-CHB-C4B
29	VF	203	PEB	NB-C1B-CHA-C4A
29	VF	203	PEB	C2B-C1B-CHA-C4A
29	WF	201	PEB	NB-C1B-CHA-C4A
29	WF	201	PEB	C2B-C1B-CHA-C4A
29	WF	202	PEB	NB-C1B-CHA-C4A
29	WF	202	PEB	C2B-C1B-CHA-C4A
29	WF	202	PEB	C3B-CAB-CBB-CGB
29	YF	201	PEB	C1C-C2C-CAC-CBC
29	YF	201	PEB	C3C-C2C-CAC-CBC
29	YF	201	PEB	NB-C1B-CHA-C4A
29	YF	201	PEB	C2B-C1B-CHA-C4A
29	YF	202	PEB	C4A-C3A-CAA-CBA
29	YF	202	PEB	NB-C1B-CHA-C4A
29	YF	202	PEB	C2B-C1B-CHA-C4A
29	YF	203	PEB	ND-C1D-CHC-C4C
29	YF	203	PEB	NC-C1C-CHB-C4B
29	YF	203	PEB	C2C-C1C-CHB-C4B
29	YF	203	PEB	NB-C1B-CHA-C4A
29	YF	203	PEB	C2B-C1B-CHA-C4A
29	ZF	201	PEB	NB-C1B-CHA-C4A
29	ZF	201	PEB	C2B-C1B-CHA-C4A
29	ZF	202	PEB	NB-C1B-CHA-C4A
29	ZF	202	PEB	C2B-C1B-CHA-C4A
29	ZF	202	PEB	C3B-CAB-CBB-CGB
29	aF	201	PEB	C1C-C2C-CAC-CBC
29	aF	201	PEB	C3C-C2C-CAC-CBC
29	aF	201	PEB	NB-C1B-CHA-C4A
29	aF	201	PEB	C2B-C1B-CHA-C4A
29	aF	202	PEB	C4A-C3A-CAA-CBA
29	aF	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	aF	202	PEB	C2B-C1B-CHA-C4A
29	aF	203	PEB	ND-C1D-CHC-C4C
29	aF	203	PEB	NC-C1C-CHB-C4B
29	aF	203	PEB	C2C-C1C-CHB-C4B
29	aF	203	PEB	NB-C1B-CHA-C4A
29	aF	203	PEB	C2B-C1B-CHA-C4A
29	bF	201	PEB	NB-C1B-CHA-C4A
29	bF	201	PEB	C2B-C1B-CHA-C4A
29	bF	202	PEB	NB-C1B-CHA-C4A
29	bF	202	PEB	C2B-C1B-CHA-C4A
29	bF	202	PEB	C3B-CAB-CBB-CGB
29	cF	201	PEB	C1C-C2C-CAC-CBC
29	cF	201	PEB	C3C-C2C-CAC-CBC
29	cF	201	PEB	NB-C1B-CHA-C4A
29	cF	201	PEB	C2B-C1B-CHA-C4A
29	cF	202	PEB	ND-C1D-CHC-C4C
29	cF	202	PEB	NC-C1C-CHB-C4B
29	cF	202	PEB	C2C-C1C-CHB-C4B
29	cF	202	PEB	NB-C1B-CHA-C4A
29	cF	202	PEB	C2B-C1B-CHA-C4A
29	dF	201	PEB	C4A-C3A-CAA-CBA
29	dF	201	PEB	NB-C1B-CHA-C4A
29	dF	201	PEB	C2B-C1B-CHA-C4A
29	dF	202	PEB	NB-C1B-CHA-C4A
29	dF	202	PEB	C2B-C1B-CHA-C4A
29	dF	203	PEB	NB-C1B-CHA-C4A
29	dF	203	PEB	C2B-C1B-CHA-C4A
29	dF	203	PEB	C3B-CAB-CBB-CGB
29	eF	201	PEB	C1C-C2C-CAC-CBC
29	eF	201	PEB	C3C-C2C-CAC-CBC
29	eF	201	PEB	NB-C1B-CHA-C4A
29	eF	201	PEB	C2B-C1B-CHA-C4A
29	eF	202	PEB	C4A-C3A-CAA-CBA
29	eF	202	PEB	NB-C1B-CHA-C4A
29	eF	202	PEB	C2B-C1B-CHA-C4A
29	eF	203	PEB	ND-C1D-CHC-C4C
29	eF	203	PEB	NC-C1C-CHB-C4B
29	eF	203	PEB	C2C-C1C-CHB-C4B
29	eF	203	PEB	NB-C1B-CHA-C4A
29	eF	203	PEB	C2B-C1B-CHA-C4A
29	fF	201	PEB	NB-C1B-CHA-C4A
29	fF	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	fF	202	PEB	NB-C1B-CHA-C4A
29	fF	202	PEB	C2B-C1B-CHA-C4A
29	fF	202	PEB	C3B-CAB-CBB-CGB
29	gF	201	PEB	C1C-C2C-CAC-CBC
29	gF	201	PEB	C3C-C2C-CAC-CBC
29	gF	201	PEB	NB-C1B-CHA-C4A
29	gF	201	PEB	C2B-C1B-CHA-C4A
29	gF	202	PEB	C4A-C3A-CAA-CBA
29	gF	202	PEB	NB-C1B-CHA-C4A
29	gF	202	PEB	C2B-C1B-CHA-C4A
29	gF	203	PEB	ND-C1D-CHC-C4C
29	gF	203	PEB	NC-C1C-CHB-C4B
29	gF	203	PEB	C2C-C1C-CHB-C4B
29	gF	203	PEB	NB-C1B-CHA-C4A
29	gF	203	PEB	C2B-C1B-CHA-C4A
29	hF	201	PEB	NB-C1B-CHA-C4A
29	hF	201	PEB	C2B-C1B-CHA-C4A
29	hF	202	PEB	NB-C1B-CHA-C4A
29	hF	202	PEB	C2B-C1B-CHA-C4A
29	hF	202	PEB	C3B-CAB-CBB-CGB
29	iF	201	PEB	C1C-C2C-CAC-CBC
29	iF	201	PEB	C3C-C2C-CAC-CBC
29	iF	201	PEB	NB-C1B-CHA-C4A
29	iF	201	PEB	C2B-C1B-CHA-C4A
29	iF	202	PEB	C4A-C3A-CAA-CBA
29	iF	202	PEB	NB-C1B-CHA-C4A
29	iF	202	PEB	C2B-C1B-CHA-C4A
29	iF	203	PEB	ND-C1D-CHC-C4C
29	iF	203	PEB	NC-C1C-CHB-C4B
29	iF	203	PEB	C2C-C1C-CHB-C4B
29	iF	203	PEB	NB-C1B-CHA-C4A
29	iF	203	PEB	C2B-C1B-CHA-C4A
29	jF	201	PEB	NB-C1B-CHA-C4A
29	jF	201	PEB	C2B-C1B-CHA-C4A
29	jF	202	PEB	NB-C1B-CHA-C4A
29	jF	202	PEB	C2B-C1B-CHA-C4A
29	jF	202	PEB	C3B-CAB-CBB-CGB
29	kF	201	PEB	C1C-C2C-CAC-CBC
29	kF	201	PEB	C3C-C2C-CAC-CBC
29	kF	201	PEB	NB-C1B-CHA-C4A
29	kF	201	PEB	C2B-C1B-CHA-C4A
29	kF	202	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	kF	202	PEB	NB-C1B-CHA-C4A
29	kF	202	PEB	C2B-C1B-CHA-C4A
29	kF	203	PEB	ND-C1D-CHC-C4C
29	kF	203	PEB	NC-C1C-CHB-C4B
29	kF	203	PEB	C2C-C1C-CHB-C4B
29	kF	203	PEB	NB-C1B-CHA-C4A
29	kF	203	PEB	C2B-C1B-CHA-C4A
29	lF	201	PEB	NB-C1B-CHA-C4A
29	lF	201	PEB	C2B-C1B-CHA-C4A
29	lF	202	PEB	NB-C1B-CHA-C4A
29	lF	202	PEB	C2B-C1B-CHA-C4A
29	lF	202	PEB	C3B-CAB-CBB-CGB
29	mF	201	PEB	C1C-C2C-CAC-CBC
29	mF	201	PEB	C3C-C2C-CAC-CBC
29	mF	201	PEB	NB-C1B-CHA-C4A
29	mF	201	PEB	C2B-C1B-CHA-C4A
29	mF	202	PEB	C4A-C3A-CAA-CBA
29	mF	202	PEB	NB-C1B-CHA-C4A
29	mF	202	PEB	C2B-C1B-CHA-C4A
29	mF	203	PEB	ND-C1D-CHC-C4C
29	mF	203	PEB	NC-C1C-CHB-C4B
29	mF	203	PEB	C2C-C1C-CHB-C4B
29	mF	203	PEB	NB-C1B-CHA-C4A
29	mF	203	PEB	C2B-C1B-CHA-C4A
29	AG	201	PEB	NB-C1B-CHA-C4A
29	AG	201	PEB	C2B-C1B-CHA-C4A
29	AG	202	PEB	NC-C1C-CHB-C4B
29	AG	202	PEB	C2C-C1C-CHB-C4B
29	AG	202	PEB	C2C-CAC-CBC-CGC
29	AG	202	PEB	C4A-C3A-CAA-CBA
29	AG	202	PEB	NB-C1B-CHA-C4A
29	AG	202	PEB	C2B-C1B-CHA-C4A
29	BG	201	PEB	ND-C1D-CHC-C4C
29	BG	201	PEB	C2C-CAC-CBC-CGC
29	BG	201	PEB	NB-C1B-CHA-C4A
29	BG	201	PEB	C2B-C1B-CHA-C4A
29	BG	202	PEB	C2A-C3A-CAA-CBA
29	BG	202	PEB	C4A-C3A-CAA-CBA
29	BG	202	PEB	NB-C1B-CHA-C4A
29	BG	202	PEB	C2B-C1B-CHA-C4A
29	BG	203	PEB	ND-C1D-CHC-C4C
29	BG	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	BG	203	PEB	NC-C1C-CHB-C4B
29	BG	203	PEB	C2C-C1C-CHB-C4B
29	BG	203	PEB	NB-C1B-CHA-C4A
29	BG	203	PEB	C2B-C1B-CHA-C4A
29	CG	201	PEB	NB-C1B-CHA-C4A
29	CG	201	PEB	C2B-C1B-CHA-C4A
29	CG	202	PEB	NC-C1C-CHB-C4B
29	CG	202	PEB	C2C-C1C-CHB-C4B
29	CG	202	PEB	C2C-CAC-CBC-CGC
29	CG	202	PEB	C4A-C3A-CAA-CBA
29	CG	202	PEB	NB-C1B-CHA-C4A
29	CG	202	PEB	C2B-C1B-CHA-C4A
29	DG	201	PEB	ND-C1D-CHC-C4C
29	DG	201	PEB	C2C-CAC-CBC-CGC
29	DG	201	PEB	NB-C1B-CHA-C4A
29	DG	201	PEB	C2B-C1B-CHA-C4A
29	DG	202	PEB	C2A-C3A-CAA-CBA
29	DG	202	PEB	C4A-C3A-CAA-CBA
29	DG	202	PEB	NB-C1B-CHA-C4A
29	DG	202	PEB	C2B-C1B-CHA-C4A
29	DG	203	PEB	ND-C1D-CHC-C4C
29	DG	203	PEB	C2D-C1D-CHC-C4C
29	DG	203	PEB	NC-C1C-CHB-C4B
29	DG	203	PEB	C2C-C1C-CHB-C4B
29	DG	203	PEB	NB-C1B-CHA-C4A
29	DG	203	PEB	C2B-C1B-CHA-C4A
29	EG	201	PEB	NB-C1B-CHA-C4A
29	EG	201	PEB	C2B-C1B-CHA-C4A
29	EG	202	PEB	NC-C1C-CHB-C4B
29	EG	202	PEB	C2C-C1C-CHB-C4B
29	EG	202	PEB	C2C-CAC-CBC-CGC
29	EG	202	PEB	C4A-C3A-CAA-CBA
29	EG	202	PEB	NB-C1B-CHA-C4A
29	EG	202	PEB	C2B-C1B-CHA-C4A
29	FG	201	PEB	ND-C1D-CHC-C4C
29	FG	201	PEB	C2C-CAC-CBC-CGC
29	FG	201	PEB	NB-C1B-CHA-C4A
29	FG	201	PEB	C2B-C1B-CHA-C4A
29	FG	202	PEB	C2A-C3A-CAA-CBA
29	FG	202	PEB	C4A-C3A-CAA-CBA
29	FG	202	PEB	NB-C1B-CHA-C4A
29	FG	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	FG	203	PEB	ND-C1D-CHC-C4C
29	FG	203	PEB	C2D-C1D-CHC-C4C
29	FG	203	PEB	NC-C1C-CHB-C4B
29	FG	203	PEB	C2C-C1C-CHB-C4B
29	FG	203	PEB	NB-C1B-CHA-C4A
29	FG	203	PEB	C2B-C1B-CHA-C4A
29	GG	201	PEB	NB-C1B-CHA-C4A
29	GG	201	PEB	C2B-C1B-CHA-C4A
29	GG	202	PEB	NC-C1C-CHB-C4B
29	GG	202	PEB	C2C-C1C-CHB-C4B
29	GG	202	PEB	C2C-CAC-CBC-CGC
29	GG	202	PEB	C4A-C3A-CAA-CBA
29	GG	202	PEB	NB-C1B-CHA-C4A
29	GG	202	PEB	C2B-C1B-CHA-C4A
29	HG	201	PEB	ND-C1D-CHC-C4C
29	HG	201	PEB	C2C-CAC-CBC-CGC
29	HG	201	PEB	NB-C1B-CHA-C4A
29	HG	201	PEB	C2B-C1B-CHA-C4A
29	HG	202	PEB	C2A-C3A-CAA-CBA
29	HG	202	PEB	C4A-C3A-CAA-CBA
29	HG	202	PEB	NB-C1B-CHA-C4A
29	HG	202	PEB	C2B-C1B-CHA-C4A
29	HG	203	PEB	ND-C1D-CHC-C4C
29	HG	203	PEB	C2D-C1D-CHC-C4C
29	HG	203	PEB	NC-C1C-CHB-C4B
29	HG	203	PEB	C2C-C1C-CHB-C4B
29	HG	203	PEB	NB-C1B-CHA-C4A
29	HG	203	PEB	C2B-C1B-CHA-C4A
29	IG	201	PEB	NB-C1B-CHA-C4A
29	IG	201	PEB	C2B-C1B-CHA-C4A
29	IG	202	PEB	NC-C1C-CHB-C4B
29	IG	202	PEB	C2C-C1C-CHB-C4B
29	IG	202	PEB	C2C-CAC-CBC-CGC
29	IG	202	PEB	C4A-C3A-CAA-CBA
29	IG	202	PEB	NB-C1B-CHA-C4A
29	IG	202	PEB	C2B-C1B-CHA-C4A
29	JG	201	PEB	ND-C1D-CHC-C4C
29	JG	201	PEB	C2C-CAC-CBC-CGC
29	JG	201	PEB	NB-C1B-CHA-C4A
29	JG	201	PEB	C2B-C1B-CHA-C4A
29	JG	202	PEB	C2A-C3A-CAA-CBA
29	JG	202	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	JG	202	PEB	NB-C1B-CHA-C4A
29	JG	202	PEB	C2B-C1B-CHA-C4A
29	JG	203	PEB	ND-C1D-CHC-C4C
29	JG	203	PEB	C2D-C1D-CHC-C4C
29	JG	203	PEB	NC-C1C-CHB-C4B
29	JG	203	PEB	C2C-C1C-CHB-C4B
29	JG	203	PEB	NB-C1B-CHA-C4A
29	JG	203	PEB	C2B-C1B-CHA-C4A
29	KG	201	PEB	NB-C1B-CHA-C4A
29	KG	201	PEB	C2B-C1B-CHA-C4A
29	KG	202	PEB	NC-C1C-CHB-C4B
29	KG	202	PEB	C2C-C1C-CHB-C4B
29	KG	202	PEB	C2C-CAC-CBC-CGC
29	KG	202	PEB	C4A-C3A-CAA-CBA
29	KG	202	PEB	NB-C1B-CHA-C4A
29	KG	202	PEB	C2B-C1B-CHA-C4A
29	LG	201	PEB	ND-C1D-CHC-C4C
29	LG	201	PEB	C2C-CAC-CBC-CGC
29	LG	201	PEB	NB-C1B-CHA-C4A
29	LG	201	PEB	C2B-C1B-CHA-C4A
29	LG	202	PEB	C2A-C3A-CAA-CBA
29	LG	202	PEB	C4A-C3A-CAA-CBA
29	LG	202	PEB	NB-C1B-CHA-C4A
29	LG	202	PEB	C2B-C1B-CHA-C4A
29	LG	203	PEB	ND-C1D-CHC-C4C
29	LG	203	PEB	C2D-C1D-CHC-C4C
29	LG	203	PEB	NC-C1C-CHB-C4B
29	LG	203	PEB	C2C-C1C-CHB-C4B
29	LG	203	PEB	NB-C1B-CHA-C4A
29	LG	203	PEB	C2B-C1B-CHA-C4A
29	MG	401	PEB	C2A-C3A-CAA-CBA
29	MG	401	PEB	C4A-C3A-CAA-CBA
29	MG	401	PEB	NB-C1B-CHA-C4A
29	MG	401	PEB	C2B-C1B-CHA-C4A
29	MG	404	PEB	ND-C1D-CHC-C4C
29	MG	404	PEB	NC-C1C-CHB-C4B
29	MG	404	PEB	C2C-C1C-CHB-C4B
29	MG	404	PEB	NB-C1B-CHA-C4A
29	MG	404	PEB	C2B-C1B-CHA-C4A
29	MG	405	PEB	NC-C1C-CHB-C4B
29	MG	405	PEB	C2C-C1C-CHB-C4B
29	MG	405	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	MG	405	PEB	C2B-C1B-CHA-C4A
29	AI	301	PEB	NC-C1C-CHB-C4B
29	AI	301	PEB	C2C-C1C-CHB-C4B
29	AI	301	PEB	NB-C1B-CHA-C4A
29	AI	301	PEB	C2B-C1B-CHA-C4A
29	AI	304	PEB	C2A-C3A-CAA-CBA
29	AI	304	PEB	NB-C1B-CHA-C4A
29	AI	304	PEB	C2B-C1B-CHA-C4A
29	AI	305	PEB	NB-C1B-CHA-C4A
29	AI	305	PEB	C2B-C1B-CHA-C4A
29	DI	1002	PEB	ND-C1D-CHC-C4C
29	DI	1002	PEB	C2D-C3D-CAD-CBD
29	DI	1002	PEB	C4D-C3D-CAD-CBD
29	DI	1002	PEB	C4A-C3A-CAA-CBA
29	DI	1002	PEB	NB-C1B-CHA-C4A
29	DI	1002	PEB	C2B-C1B-CHA-C4A
29	FI	1002	PEB	ND-C1D-CHC-C4C
29	FI	1002	PEB	C2D-C3D-CAD-CBD
29	FI	1002	PEB	C4D-C3D-CAD-CBD
29	FI	1002	PEB	C4A-C3A-CAA-CBA
29	FI	1002	PEB	NB-C1B-CHA-C4A
29	FI	1002	PEB	C2B-C1B-CHA-C4A
29	HI	1002	PEB	ND-C1D-CHC-C4C
29	HI	1002	PEB	C2D-C3D-CAD-CBD
29	HI	1002	PEB	C4D-C3D-CAD-CBD
29	HI	1002	PEB	C4A-C3A-CAA-CBA
29	HI	1002	PEB	NB-C1B-CHA-C4A
29	HI	1002	PEB	C2B-C1B-CHA-C4A
29	JI	1002	PEB	ND-C1D-CHC-C4C
29	JI	1002	PEB	C2D-C3D-CAD-CBD
29	JI	1002	PEB	C4D-C3D-CAD-CBD
29	JI	1002	PEB	C4A-C3A-CAA-CBA
29	JI	1002	PEB	NB-C1B-CHA-C4A
29	JI	1002	PEB	C2B-C1B-CHA-C4A
29	LI	1002	PEB	ND-C1D-CHC-C4C
29	LI	1002	PEB	C2D-C3D-CAD-CBD
29	LI	1002	PEB	C4D-C3D-CAD-CBD
29	LI	1002	PEB	C4A-C3A-CAA-CBA
29	LI	1002	PEB	NB-C1B-CHA-C4A
29	LI	1002	PEB	C2B-C1B-CHA-C4A
29	NI	1002	PEB	ND-C1D-CHC-C4C
29	NI	1002	PEB	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	NI	1002	PEB	C4D-C3D-CAD-CBD
29	NI	1002	PEB	C4A-C3A-CAA-CBA
29	NI	1002	PEB	NB-C1B-CHA-C4A
29	NI	1002	PEB	C2B-C1B-CHA-C4A
29	OI	201	PEB	NB-C1B-CHA-C4A
29	OI	201	PEB	C2B-C1B-CHA-C4A
29	OI	202	PEB	NB-C1B-CHA-C4A
29	OI	202	PEB	C2B-C1B-CHA-C4A
29	OI	202	PEB	C3B-CAB-CBB-CGB
29	OI	203	PEB	C4A-C3A-CAA-CBA
29	OI	203	PEB	NB-C1B-CHA-C4A
29	OI	203	PEB	C2B-C1B-CHA-C4A
29	PI	201	PEB	C1C-C2C-CAC-CBC
29	PI	201	PEB	C3C-C2C-CAC-CBC
29	PI	201	PEB	NB-C1B-CHA-C4A
29	PI	201	PEB	C2B-C1B-CHA-C4A
29	PI	202	PEB	C4A-C3A-CAA-CBA
29	PI	202	PEB	NB-C1B-CHA-C4A
29	PI	202	PEB	C2B-C1B-CHA-C4A
29	PI	203	PEB	ND-C1D-CHC-C4C
29	PI	203	PEB	NC-C1C-CHB-C4B
29	PI	203	PEB	C2C-C1C-CHB-C4B
29	PI	203	PEB	NB-C1B-CHA-C4A
29	PI	203	PEB	C2B-C1B-CHA-C4A
29	QI	201	PEB	NB-C1B-CHA-C4A
29	QI	201	PEB	C2B-C1B-CHA-C4A
29	QI	202	PEB	NB-C1B-CHA-C4A
29	QI	202	PEB	C2B-C1B-CHA-C4A
29	QI	202	PEB	C3B-CAB-CBB-CGB
29	RI	201	PEB	C1C-C2C-CAC-CBC
29	RI	201	PEB	C3C-C2C-CAC-CBC
29	RI	201	PEB	NB-C1B-CHA-C4A
29	RI	201	PEB	C2B-C1B-CHA-C4A
29	RI	202	PEB	ND-C1D-CHC-C4C
29	RI	202	PEB	NC-C1C-CHB-C4B
29	RI	202	PEB	C2C-C1C-CHB-C4B
29	RI	202	PEB	NB-C1B-CHA-C4A
29	RI	202	PEB	C2B-C1B-CHA-C4A
29	SI	201	PEB	NB-C1B-CHA-C4A
29	SI	201	PEB	C2B-C1B-CHA-C4A
29	SI	202	PEB	NB-C1B-CHA-C4A
29	SI	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	SI	202	PEB	C3B-CAB-CBB-CGB
29	TI	201	PEB	C1C-C2C-CAC-CBC
29	TI	201	PEB	C3C-C2C-CAC-CBC
29	TI	201	PEB	NB-C1B-CHA-C4A
29	TI	201	PEB	C2B-C1B-CHA-C4A
29	TI	202	PEB	ND-C1D-CHC-C4C
29	TI	202	PEB	NC-C1C-CHB-C4B
29	TI	202	PEB	C2C-C1C-CHB-C4B
29	TI	202	PEB	NB-C1B-CHA-C4A
29	TI	202	PEB	C2B-C1B-CHA-C4A
29	UI	201	PEB	C4A-C3A-CAA-CBA
29	UI	201	PEB	NB-C1B-CHA-C4A
29	UI	201	PEB	C2B-C1B-CHA-C4A
29	UI	202	PEB	NB-C1B-CHA-C4A
29	UI	202	PEB	C2B-C1B-CHA-C4A
29	UI	203	PEB	NB-C1B-CHA-C4A
29	UI	203	PEB	C2B-C1B-CHA-C4A
29	UI	203	PEB	C3B-CAB-CBB-CGB
29	VI	201	PEB	C1C-C2C-CAC-CBC
29	VI	201	PEB	C3C-C2C-CAC-CBC
29	VI	201	PEB	NB-C1B-CHA-C4A
29	VI	201	PEB	C2B-C1B-CHA-C4A
29	VI	202	PEB	C4A-C3A-CAA-CBA
29	VI	202	PEB	NB-C1B-CHA-C4A
29	VI	202	PEB	C2B-C1B-CHA-C4A
29	VI	203	PEB	ND-C1D-CHC-C4C
29	VI	203	PEB	NC-C1C-CHB-C4B
29	VI	203	PEB	C2C-C1C-CHB-C4B
29	VI	203	PEB	NB-C1B-CHA-C4A
29	VI	203	PEB	C2B-C1B-CHA-C4A
29	WI	201	PEB	NB-C1B-CHA-C4A
29	WI	201	PEB	C2B-C1B-CHA-C4A
29	WI	202	PEB	NB-C1B-CHA-C4A
29	WI	202	PEB	C2B-C1B-CHA-C4A
29	WI	202	PEB	C3B-CAB-CBB-CGB
29	YI	201	PEB	C1C-C2C-CAC-CBC
29	YI	201	PEB	C3C-C2C-CAC-CBC
29	YI	201	PEB	NB-C1B-CHA-C4A
29	YI	201	PEB	C2B-C1B-CHA-C4A
29	YI	202	PEB	C4A-C3A-CAA-CBA
29	YI	202	PEB	NB-C1B-CHA-C4A
29	YI	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	YI	203	PEB	ND-C1D-CHC-C4C
29	YI	203	PEB	NC-C1C-CHB-C4B
29	YI	203	PEB	C2C-C1C-CHB-C4B
29	YI	203	PEB	NB-C1B-CHA-C4A
29	YI	203	PEB	C2B-C1B-CHA-C4A
29	ZI	201	PEB	NB-C1B-CHA-C4A
29	ZI	201	PEB	C2B-C1B-CHA-C4A
29	ZI	202	PEB	NB-C1B-CHA-C4A
29	ZI	202	PEB	C2B-C1B-CHA-C4A
29	ZI	202	PEB	C3B-CAB-CBB-CGB
29	aI	201	PEB	C1C-C2C-CAC-CBC
29	aI	201	PEB	C3C-C2C-CAC-CBC
29	aI	201	PEB	NB-C1B-CHA-C4A
29	aI	201	PEB	C2B-C1B-CHA-C4A
29	aI	202	PEB	C4A-C3A-CAA-CBA
29	aI	202	PEB	NB-C1B-CHA-C4A
29	aI	202	PEB	C2B-C1B-CHA-C4A
29	aI	203	PEB	ND-C1D-CHC-C4C
29	aI	203	PEB	NC-C1C-CHB-C4B
29	aI	203	PEB	C2C-C1C-CHB-C4B
29	aI	203	PEB	NB-C1B-CHA-C4A
29	aI	203	PEB	C2B-C1B-CHA-C4A
29	bI	201	PEB	NB-C1B-CHA-C4A
29	bI	201	PEB	C2B-C1B-CHA-C4A
29	bI	202	PEB	NB-C1B-CHA-C4A
29	bI	202	PEB	C2B-C1B-CHA-C4A
29	bI	202	PEB	C3B-CAB-CBB-CGB
29	cI	201	PEB	C1C-C2C-CAC-CBC
29	cI	201	PEB	C3C-C2C-CAC-CBC
29	cI	201	PEB	NB-C1B-CHA-C4A
29	cI	201	PEB	C2B-C1B-CHA-C4A
29	cI	202	PEB	ND-C1D-CHC-C4C
29	cI	202	PEB	NC-C1C-CHB-C4B
29	cI	202	PEB	C2C-C1C-CHB-C4B
29	cI	202	PEB	NB-C1B-CHA-C4A
29	cI	202	PEB	C2B-C1B-CHA-C4A
29	dI	201	PEB	C4A-C3A-CAA-CBA
29	dI	201	PEB	NB-C1B-CHA-C4A
29	dI	201	PEB	C2B-C1B-CHA-C4A
29	dI	202	PEB	NB-C1B-CHA-C4A
29	dI	202	PEB	C2B-C1B-CHA-C4A
29	dI	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	dI	203	PEB	C2B-C1B-CHA-C4A
29	dI	203	PEB	C3B-CAB-CBB-CGB
29	eI	201	PEB	C1C-C2C-CAC-CBC
29	eI	201	PEB	C3C-C2C-CAC-CBC
29	eI	201	PEB	NB-C1B-CHA-C4A
29	eI	201	PEB	C2B-C1B-CHA-C4A
29	eI	202	PEB	C4A-C3A-CAA-CBA
29	eI	202	PEB	NB-C1B-CHA-C4A
29	eI	202	PEB	C2B-C1B-CHA-C4A
29	eI	203	PEB	ND-C1D-CHC-C4C
29	eI	203	PEB	NC-C1C-CHB-C4B
29	eI	203	PEB	C2C-C1C-CHB-C4B
29	eI	203	PEB	NB-C1B-CHA-C4A
29	eI	203	PEB	C2B-C1B-CHA-C4A
29	fI	201	PEB	NB-C1B-CHA-C4A
29	fI	201	PEB	C2B-C1B-CHA-C4A
29	fI	202	PEB	NB-C1B-CHA-C4A
29	fI	202	PEB	C2B-C1B-CHA-C4A
29	fI	202	PEB	C3B-CAB-CBB-CGB
29	gI	201	PEB	C1C-C2C-CAC-CBC
29	gI	201	PEB	C3C-C2C-CAC-CBC
29	gI	201	PEB	NB-C1B-CHA-C4A
29	gI	201	PEB	C2B-C1B-CHA-C4A
29	gI	202	PEB	C4A-C3A-CAA-CBA
29	gI	202	PEB	NB-C1B-CHA-C4A
29	gI	202	PEB	C2B-C1B-CHA-C4A
29	gI	203	PEB	ND-C1D-CHC-C4C
29	gI	203	PEB	NC-C1C-CHB-C4B
29	gI	203	PEB	C2C-C1C-CHB-C4B
29	gI	203	PEB	NB-C1B-CHA-C4A
29	gI	203	PEB	C2B-C1B-CHA-C4A
29	hI	201	PEB	NB-C1B-CHA-C4A
29	hI	201	PEB	C2B-C1B-CHA-C4A
29	hI	202	PEB	NB-C1B-CHA-C4A
29	hI	202	PEB	C2B-C1B-CHA-C4A
29	hI	202	PEB	C3B-CAB-CBB-CGB
29	iI	201	PEB	C1C-C2C-CAC-CBC
29	iI	201	PEB	C3C-C2C-CAC-CBC
29	iI	201	PEB	NB-C1B-CHA-C4A
29	iI	201	PEB	C2B-C1B-CHA-C4A
29	iI	202	PEB	C4A-C3A-CAA-CBA
29	iI	202	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	iI	202	PEB	C2B-C1B-CHA-C4A
29	iI	203	PEB	ND-C1D-CHC-C4C
29	iI	203	PEB	NC-C1C-CHB-C4B
29	iI	203	PEB	C2C-C1C-CHB-C4B
29	iI	203	PEB	NB-C1B-CHA-C4A
29	iI	203	PEB	C2B-C1B-CHA-C4A
29	jI	201	PEB	NB-C1B-CHA-C4A
29	jI	201	PEB	C2B-C1B-CHA-C4A
29	jI	202	PEB	NB-C1B-CHA-C4A
29	jI	202	PEB	C2B-C1B-CHA-C4A
29	jI	202	PEB	C3B-CAB-CBB-CGB
29	kI	201	PEB	C1C-C2C-CAC-CBC
29	kI	201	PEB	C3C-C2C-CAC-CBC
29	kI	201	PEB	NB-C1B-CHA-C4A
29	kI	201	PEB	C2B-C1B-CHA-C4A
29	kI	202	PEB	C4A-C3A-CAA-CBA
29	kI	202	PEB	NB-C1B-CHA-C4A
29	kI	202	PEB	C2B-C1B-CHA-C4A
29	kI	203	PEB	ND-C1D-CHC-C4C
29	kI	203	PEB	NC-C1C-CHB-C4B
29	kI	203	PEB	C2C-C1C-CHB-C4B
29	kI	203	PEB	NB-C1B-CHA-C4A
29	kI	203	PEB	C2B-C1B-CHA-C4A
29	lI	201	PEB	NB-C1B-CHA-C4A
29	lI	201	PEB	C2B-C1B-CHA-C4A
29	lI	202	PEB	NB-C1B-CHA-C4A
29	lI	202	PEB	C2B-C1B-CHA-C4A
29	lI	202	PEB	C3B-CAB-CBB-CGB
29	mI	201	PEB	C1C-C2C-CAC-CBC
29	mI	201	PEB	C3C-C2C-CAC-CBC
29	mI	201	PEB	NB-C1B-CHA-C4A
29	mI	201	PEB	C2B-C1B-CHA-C4A
29	mI	202	PEB	C4A-C3A-CAA-CBA
29	mI	202	PEB	NB-C1B-CHA-C4A
29	mI	202	PEB	C2B-C1B-CHA-C4A
29	mI	203	PEB	ND-C1D-CHC-C4C
29	mI	203	PEB	NC-C1C-CHB-C4B
29	mI	203	PEB	C2C-C1C-CHB-C4B
29	mI	203	PEB	NB-C1B-CHA-C4A
29	mI	203	PEB	C2B-C1B-CHA-C4A
29	AJ	201	PEB	C4A-C3A-CAA-CBA
29	AJ	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	AJ	201	PEB	C2B-C1B-CHA-C4A
29	AJ	202	PEB	NC-C1C-CHB-C4B
29	AJ	202	PEB	C2C-C1C-CHB-C4B
29	AJ	202	PEB	C2C-CAC-CBC-CGC
29	AJ	202	PEB	C2A-C3A-CAA-CBA
29	AJ	202	PEB	NB-C1B-CHA-C4A
29	AJ	202	PEB	C2B-C1B-CHA-C4A
29	AJ	203	PEB	C2D-C3D-CAD-CBD
29	AJ	203	PEB	C4D-C3D-CAD-CBD
29	AJ	203	PEB	C4A-C3A-CAA-CBA
29	AJ	203	PEB	NB-C1B-CHA-C4A
29	AJ	203	PEB	C2B-C1B-CHA-C4A
29	BJ	201	PEB	NB-C1B-CHA-C4A
29	BJ	201	PEB	C2B-C1B-CHA-C4A
29	BJ	202	PEB	C2D-C3D-CAD-CBD
29	BJ	202	PEB	C4D-C3D-CAD-CBD
29	BJ	202	PEB	C4A-C3A-CAA-CBA
29	BJ	202	PEB	NB-C1B-CHA-C4A
29	BJ	202	PEB	C2B-C1B-CHA-C4A
29	BJ	203	PEB	ND-C1D-CHC-C4C
29	BJ	203	PEB	C2D-C1D-CHC-C4C
29	BJ	203	PEB	NC-C1C-CHB-C4B
29	BJ	203	PEB	C2C-C1C-CHB-C4B
29	BJ	203	PEB	C2A-C3A-CAA-CBA
29	BJ	203	PEB	C4A-C3A-CAA-CBA
29	BJ	203	PEB	NB-C1B-CHA-C4A
29	BJ	203	PEB	C2B-C1B-CHA-C4A
29	CJ	201	PEB	C4A-C3A-CAA-CBA
29	CJ	201	PEB	NB-C1B-CHA-C4A
29	CJ	201	PEB	C2B-C1B-CHA-C4A
29	CJ	202	PEB	NC-C1C-CHB-C4B
29	CJ	202	PEB	C2C-C1C-CHB-C4B
29	CJ	202	PEB	C2C-CAC-CBC-CGC
29	CJ	202	PEB	C2A-C3A-CAA-CBA
29	CJ	202	PEB	NB-C1B-CHA-C4A
29	CJ	202	PEB	C2B-C1B-CHA-C4A
29	DJ	201	PEB	NB-C1B-CHA-C4A
29	DJ	201	PEB	C2B-C1B-CHA-C4A
29	DJ	202	PEB	ND-C1D-CHC-C4C
29	DJ	202	PEB	C2D-C1D-CHC-C4C
29	DJ	202	PEB	NC-C1C-CHB-C4B
29	DJ	202	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	DJ	202	PEB	C2A-C3A-CAA-CBA
29	DJ	202	PEB	C4A-C3A-CAA-CBA
29	DJ	202	PEB	NB-C1B-CHA-C4A
29	DJ	202	PEB	C2B-C1B-CHA-C4A
29	EJ	201	PEB	C4A-C3A-CAA-CBA
29	EJ	201	PEB	NB-C1B-CHA-C4A
29	EJ	201	PEB	C2B-C1B-CHA-C4A
29	EJ	202	PEB	NC-C1C-CHB-C4B
29	EJ	202	PEB	C2C-C1C-CHB-C4B
29	EJ	202	PEB	C2C-CAC-CBC-CGC
29	EJ	202	PEB	C2A-C3A-CAA-CBA
29	EJ	202	PEB	NB-C1B-CHA-C4A
29	EJ	202	PEB	C2B-C1B-CHA-C4A
29	FJ	201	PEB	NB-C1B-CHA-C4A
29	FJ	201	PEB	C2B-C1B-CHA-C4A
29	FJ	202	PEB	C2D-C3D-CAD-CBD
29	FJ	202	PEB	C4D-C3D-CAD-CBD
29	FJ	202	PEB	C4A-C3A-CAA-CBA
29	FJ	202	PEB	NB-C1B-CHA-C4A
29	FJ	202	PEB	C2B-C1B-CHA-C4A
29	FJ	203	PEB	ND-C1D-CHC-C4C
29	FJ	203	PEB	C2D-C1D-CHC-C4C
29	FJ	203	PEB	NC-C1C-CHB-C4B
29	FJ	203	PEB	C2C-C1C-CHB-C4B
29	FJ	203	PEB	C2A-C3A-CAA-CBA
29	FJ	203	PEB	C4A-C3A-CAA-CBA
29	FJ	203	PEB	NB-C1B-CHA-C4A
29	FJ	203	PEB	C2B-C1B-CHA-C4A
29	GJ	201	PEB	C4A-C3A-CAA-CBA
29	GJ	201	PEB	NB-C1B-CHA-C4A
29	GJ	201	PEB	C2B-C1B-CHA-C4A
29	GJ	202	PEB	NC-C1C-CHB-C4B
29	GJ	202	PEB	C2C-C1C-CHB-C4B
29	GJ	202	PEB	C2C-CAC-CBC-CGC
29	GJ	202	PEB	C2A-C3A-CAA-CBA
29	GJ	202	PEB	NB-C1B-CHA-C4A
29	GJ	202	PEB	C2B-C1B-CHA-C4A
29	HJ	201	PEB	C2D-C3D-CAD-CBD
29	HJ	201	PEB	C4D-C3D-CAD-CBD
29	HJ	201	PEB	C4A-C3A-CAA-CBA
29	HJ	201	PEB	NB-C1B-CHA-C4A
29	HJ	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	HJ	202	PEB	ND-C1D-CHC-C4C
29	HJ	202	PEB	C2D-C1D-CHC-C4C
29	HJ	202	PEB	NC-C1C-CHB-C4B
29	HJ	202	PEB	C2C-C1C-CHB-C4B
29	HJ	202	PEB	C2A-C3A-CAA-CBA
29	HJ	202	PEB	C4A-C3A-CAA-CBA
29	HJ	202	PEB	NB-C1B-CHA-C4A
29	HJ	202	PEB	C2B-C1B-CHA-C4A
29	IJ	201	PEB	C4A-C3A-CAA-CBA
29	IJ	201	PEB	NB-C1B-CHA-C4A
29	IJ	201	PEB	C2B-C1B-CHA-C4A
29	IJ	202	PEB	NC-C1C-CHB-C4B
29	IJ	202	PEB	C2C-C1C-CHB-C4B
29	IJ	202	PEB	C2C-CAC-CBC-CGC
29	IJ	202	PEB	C2A-C3A-CAA-CBA
29	IJ	202	PEB	NB-C1B-CHA-C4A
29	IJ	202	PEB	C2B-C1B-CHA-C4A
29	IJ	203	PEB	C2D-C3D-CAD-CBD
29	IJ	203	PEB	C4D-C3D-CAD-CBD
29	IJ	203	PEB	C4A-C3A-CAA-CBA
29	IJ	203	PEB	NB-C1B-CHA-C4A
29	IJ	203	PEB	C2B-C1B-CHA-C4A
29	JJ	201	PEB	NB-C1B-CHA-C4A
29	JJ	201	PEB	C2B-C1B-CHA-C4A
29	JJ	202	PEB	C2D-C3D-CAD-CBD
29	JJ	202	PEB	C4D-C3D-CAD-CBD
29	JJ	202	PEB	C4A-C3A-CAA-CBA
29	JJ	202	PEB	NB-C1B-CHA-C4A
29	JJ	202	PEB	C2B-C1B-CHA-C4A
29	JJ	203	PEB	ND-C1D-CHC-C4C
29	JJ	203	PEB	C2D-C1D-CHC-C4C
29	JJ	203	PEB	NC-C1C-CHB-C4B
29	JJ	203	PEB	C2C-C1C-CHB-C4B
29	JJ	203	PEB	C2A-C3A-CAA-CBA
29	JJ	203	PEB	C4A-C3A-CAA-CBA
29	JJ	203	PEB	NB-C1B-CHA-C4A
29	JJ	203	PEB	C2B-C1B-CHA-C4A
29	KJ	201	PEB	C4A-C3A-CAA-CBA
29	KJ	201	PEB	NB-C1B-CHA-C4A
29	KJ	201	PEB	C2B-C1B-CHA-C4A
29	KJ	202	PEB	NC-C1C-CHB-C4B
29	KJ	202	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	KJ	202	PEB	C2C-CAC-CBC-CGC
29	KJ	202	PEB	C2A-C3A-CAA-CBA
29	KJ	202	PEB	NB-C1B-CHA-C4A
29	KJ	202	PEB	C2B-C1B-CHA-C4A
29	LJ	201	PEB	NB-C1B-CHA-C4A
29	LJ	201	PEB	C2B-C1B-CHA-C4A
29	LJ	202	PEB	ND-C1D-CHC-C4C
29	LJ	202	PEB	C2D-C1D-CHC-C4C
29	LJ	202	PEB	NC-C1C-CHB-C4B
29	LJ	202	PEB	C2C-C1C-CHB-C4B
29	LJ	202	PEB	C2A-C3A-CAA-CBA
29	LJ	202	PEB	C4A-C3A-CAA-CBA
29	LJ	202	PEB	NB-C1B-CHA-C4A
29	LJ	202	PEB	C2B-C1B-CHA-C4A
29	MJ	201	PEB	C4A-C3A-CAA-CBA
29	MJ	201	PEB	NB-C1B-CHA-C4A
29	MJ	201	PEB	C2B-C1B-CHA-C4A
29	MJ	202	PEB	NC-C1C-CHB-C4B
29	MJ	202	PEB	C2C-C1C-CHB-C4B
29	MJ	202	PEB	C2C-CAC-CBC-CGC
29	MJ	202	PEB	C2A-C3A-CAA-CBA
29	MJ	202	PEB	NB-C1B-CHA-C4A
29	MJ	202	PEB	C2B-C1B-CHA-C4A
29	NJ	201	PEB	NB-C1B-CHA-C4A
29	NJ	201	PEB	C2B-C1B-CHA-C4A
29	NJ	202	PEB	C2D-C3D-CAD-CBD
29	NJ	202	PEB	C4D-C3D-CAD-CBD
29	NJ	202	PEB	C4A-C3A-CAA-CBA
29	NJ	202	PEB	NB-C1B-CHA-C4A
29	NJ	202	PEB	C2B-C1B-CHA-C4A
29	NJ	203	PEB	ND-C1D-CHC-C4C
29	NJ	203	PEB	C2D-C1D-CHC-C4C
29	NJ	203	PEB	NC-C1C-CHB-C4B
29	NJ	203	PEB	C2C-C1C-CHB-C4B
29	NJ	203	PEB	C2A-C3A-CAA-CBA
29	NJ	203	PEB	C4A-C3A-CAA-CBA
29	NJ	203	PEB	NB-C1B-CHA-C4A
29	NJ	203	PEB	C2B-C1B-CHA-C4A
29	OJ	201	PEB	C4A-C3A-CAA-CBA
29	OJ	201	PEB	NB-C1B-CHA-C4A
29	OJ	201	PEB	C2B-C1B-CHA-C4A
29	OJ	202	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	OJ	202	PEB	C2C-C1C-CHB-C4B
29	OJ	202	PEB	C2C-CAC-CBC-CGC
29	OJ	202	PEB	C2A-C3A-CAA-CBA
29	OJ	202	PEB	NB-C1B-CHA-C4A
29	OJ	202	PEB	C2B-C1B-CHA-C4A
29	PJ	201	PEB	NB-C1B-CHA-C4A
29	PJ	201	PEB	C2B-C1B-CHA-C4A
29	PJ	202	PEB	C2D-C3D-CAD-CBD
29	PJ	202	PEB	C4D-C3D-CAD-CBD
29	PJ	202	PEB	C4A-C3A-CAA-CBA
29	PJ	202	PEB	NB-C1B-CHA-C4A
29	PJ	202	PEB	C2B-C1B-CHA-C4A
29	PJ	203	PEB	ND-C1D-CHC-C4C
29	PJ	203	PEB	C2D-C1D-CHC-C4C
29	PJ	203	PEB	NC-C1C-CHB-C4B
29	PJ	203	PEB	C2C-C1C-CHB-C4B
29	PJ	203	PEB	C2A-C3A-CAA-CBA
29	PJ	203	PEB	C4A-C3A-CAA-CBA
29	PJ	203	PEB	NB-C1B-CHA-C4A
29	PJ	203	PEB	C2B-C1B-CHA-C4A
29	QJ	201	PEB	C4A-C3A-CAA-CBA
29	QJ	201	PEB	NB-C1B-CHA-C4A
29	QJ	201	PEB	C2B-C1B-CHA-C4A
29	QJ	202	PEB	NC-C1C-CHB-C4B
29	QJ	202	PEB	C2C-C1C-CHB-C4B
29	QJ	202	PEB	C2C-CAC-CBC-CGC
29	QJ	202	PEB	C2A-C3A-CAA-CBA
29	QJ	202	PEB	NB-C1B-CHA-C4A
29	QJ	202	PEB	C2B-C1B-CHA-C4A
29	RJ	201	PEB	NB-C1B-CHA-C4A
29	RJ	201	PEB	C2B-C1B-CHA-C4A
29	RJ	202	PEB	C2D-C3D-CAD-CBD
29	RJ	202	PEB	C4D-C3D-CAD-CBD
29	RJ	202	PEB	C4A-C3A-CAA-CBA
29	RJ	202	PEB	NB-C1B-CHA-C4A
29	RJ	202	PEB	C2B-C1B-CHA-C4A
29	RJ	203	PEB	ND-C1D-CHC-C4C
29	RJ	203	PEB	C2D-C1D-CHC-C4C
29	RJ	203	PEB	NC-C1C-CHB-C4B
29	RJ	203	PEB	C2C-C1C-CHB-C4B
29	RJ	203	PEB	C2A-C3A-CAA-CBA
29	RJ	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	RJ	203	PEB	NB-C1B-CHA-C4A
29	RJ	203	PEB	C2B-C1B-CHA-C4A
29	SJ	201	PEB	C4A-C3A-CAA-CBA
29	SJ	201	PEB	NB-C1B-CHA-C4A
29	SJ	201	PEB	C2B-C1B-CHA-C4A
29	SJ	202	PEB	NC-C1C-CHB-C4B
29	SJ	202	PEB	C2C-C1C-CHB-C4B
29	SJ	202	PEB	C2C-CAC-CBC-CGC
29	SJ	202	PEB	C2A-C3A-CAA-CBA
29	SJ	202	PEB	NB-C1B-CHA-C4A
29	SJ	202	PEB	C2B-C1B-CHA-C4A
29	TJ	201	PEB	NB-C1B-CHA-C4A
29	TJ	201	PEB	C2B-C1B-CHA-C4A
29	TJ	202	PEB	C2D-C3D-CAD-CBD
29	TJ	202	PEB	C4D-C3D-CAD-CBD
29	TJ	202	PEB	C4A-C3A-CAA-CBA
29	TJ	202	PEB	NB-C1B-CHA-C4A
29	TJ	202	PEB	C2B-C1B-CHA-C4A
29	TJ	203	PEB	ND-C1D-CHC-C4C
29	TJ	203	PEB	C2D-C1D-CHC-C4C
29	TJ	203	PEB	NC-C1C-CHB-C4B
29	TJ	203	PEB	C2C-C1C-CHB-C4B
29	TJ	203	PEB	C2A-C3A-CAA-CBA
29	TJ	203	PEB	C4A-C3A-CAA-CBA
29	TJ	203	PEB	NB-C1B-CHA-C4A
29	TJ	203	PEB	C2B-C1B-CHA-C4A
29	UJ	201	PEB	C4A-C3A-CAA-CBA
29	UJ	201	PEB	NB-C1B-CHA-C4A
29	UJ	201	PEB	C2B-C1B-CHA-C4A
29	UJ	202	PEB	NC-C1C-CHB-C4B
29	UJ	202	PEB	C2C-C1C-CHB-C4B
29	UJ	202	PEB	C2C-CAC-CBC-CGC
29	UJ	202	PEB	C2A-C3A-CAA-CBA
29	UJ	202	PEB	NB-C1B-CHA-C4A
29	UJ	202	PEB	C2B-C1B-CHA-C4A
29	VJ	201	PEB	NB-C1B-CHA-C4A
29	VJ	201	PEB	C2B-C1B-CHA-C4A
29	VJ	202	PEB	ND-C1D-CHC-C4C
29	VJ	202	PEB	C2D-C1D-CHC-C4C
29	VJ	202	PEB	NC-C1C-CHB-C4B
29	VJ	202	PEB	C2C-C1C-CHB-C4B
29	VJ	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	VJ	202	PEB	C4A-C3A-CAA-CBA
29	VJ	202	PEB	NB-C1B-CHA-C4A
29	VJ	202	PEB	C2B-C1B-CHA-C4A
29	WJ	201	PEB	C2D-C3D-CAD-CBD
29	WJ	201	PEB	C4D-C3D-CAD-CBD
29	WJ	201	PEB	C4A-C3A-CAA-CBA
29	WJ	201	PEB	NB-C1B-CHA-C4A
29	WJ	201	PEB	C2B-C1B-CHA-C4A
29	WJ	202	PEB	C4A-C3A-CAA-CBA
29	WJ	202	PEB	NB-C1B-CHA-C4A
29	WJ	202	PEB	C2B-C1B-CHA-C4A
29	WJ	203	PEB	NC-C1C-CHB-C4B
29	WJ	203	PEB	C2C-C1C-CHB-C4B
29	WJ	203	PEB	C2C-CAC-CBC-CGC
29	WJ	203	PEB	C2A-C3A-CAA-CBA
29	WJ	203	PEB	NB-C1B-CHA-C4A
29	WJ	203	PEB	C2B-C1B-CHA-C4A
29	XJ	201	PEB	NB-C1B-CHA-C4A
29	XJ	201	PEB	C2B-C1B-CHA-C4A
29	XJ	202	PEB	C2D-C3D-CAD-CBD
29	XJ	202	PEB	C4D-C3D-CAD-CBD
29	XJ	202	PEB	C4A-C3A-CAA-CBA
29	XJ	202	PEB	NB-C1B-CHA-C4A
29	XJ	202	PEB	C2B-C1B-CHA-C4A
29	XJ	203	PEB	ND-C1D-CHC-C4C
29	XJ	203	PEB	C2D-C1D-CHC-C4C
29	XJ	203	PEB	NC-C1C-CHB-C4B
29	XJ	203	PEB	C2C-C1C-CHB-C4B
29	XJ	203	PEB	C2A-C3A-CAA-CBA
29	XJ	203	PEB	C4A-C3A-CAA-CBA
29	XJ	203	PEB	NB-C1B-CHA-C4A
29	XJ	203	PEB	C2B-C1B-CHA-C4A
29	YJ	201	PEB	C4A-C3A-CAA-CBA
29	YJ	201	PEB	NB-C1B-CHA-C4A
29	YJ	201	PEB	C2B-C1B-CHA-C4A
29	YJ	202	PEB	NC-C1C-CHB-C4B
29	YJ	202	PEB	C2C-C1C-CHB-C4B
29	YJ	202	PEB	C2C-CAC-CBC-CGC
29	YJ	202	PEB	C2A-C3A-CAA-CBA
29	YJ	202	PEB	NB-C1B-CHA-C4A
29	YJ	202	PEB	C2B-C1B-CHA-C4A
29	ZJ	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	ZJ	201	PEB	C2B-C1B-CHA-C4A
29	ZJ	202	PEB	C2D-C3D-CAD-CBD
29	ZJ	202	PEB	C4D-C3D-CAD-CBD
29	ZJ	202	PEB	C4A-C3A-CAA-CBA
29	ZJ	202	PEB	NB-C1B-CHA-C4A
29	ZJ	202	PEB	C2B-C1B-CHA-C4A
29	ZJ	203	PEB	ND-C1D-CHC-C4C
29	ZJ	203	PEB	C2D-C1D-CHC-C4C
29	ZJ	203	PEB	NC-C1C-CHB-C4B
29	ZJ	203	PEB	C2C-C1C-CHB-C4B
29	ZJ	203	PEB	C2A-C3A-CAA-CBA
29	ZJ	203	PEB	C4A-C3A-CAA-CBA
29	ZJ	203	PEB	NB-C1B-CHA-C4A
29	ZJ	203	PEB	C2B-C1B-CHA-C4A
29	aJ	201	PEB	C4A-C3A-CAA-CBA
29	aJ	201	PEB	NB-C1B-CHA-C4A
29	aJ	201	PEB	C2B-C1B-CHA-C4A
29	aJ	202	PEB	NC-C1C-CHB-C4B
29	aJ	202	PEB	C2C-C1C-CHB-C4B
29	aJ	202	PEB	C2C-CAC-CBC-CGC
29	aJ	202	PEB	C2A-C3A-CAA-CBA
29	aJ	202	PEB	NB-C1B-CHA-C4A
29	aJ	202	PEB	C2B-C1B-CHA-C4A
29	bJ	201	PEB	NB-C1B-CHA-C4A
29	bJ	201	PEB	C2B-C1B-CHA-C4A
29	bJ	202	PEB	C2D-C3D-CAD-CBD
29	bJ	202	PEB	C4D-C3D-CAD-CBD
29	bJ	202	PEB	C4A-C3A-CAA-CBA
29	bJ	202	PEB	NB-C1B-CHA-C4A
29	bJ	202	PEB	C2B-C1B-CHA-C4A
29	bJ	203	PEB	ND-C1D-CHC-C4C
29	bJ	203	PEB	C2D-C1D-CHC-C4C
29	bJ	203	PEB	NC-C1C-CHB-C4B
29	bJ	203	PEB	C2C-C1C-CHB-C4B
29	bJ	203	PEB	C2A-C3A-CAA-CBA
29	bJ	203	PEB	C4A-C3A-CAA-CBA
29	bJ	203	PEB	NB-C1B-CHA-C4A
29	bJ	203	PEB	C2B-C1B-CHA-C4A
29	cJ	201	PEB	C4A-C3A-CAA-CBA
29	cJ	201	PEB	NB-C1B-CHA-C4A
29	cJ	201	PEB	C2B-C1B-CHA-C4A
29	cJ	202	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	cJ	202	PEB	C2C-C1C-CHB-C4B
29	cJ	202	PEB	C2C-CAC-CBC-CGC
29	cJ	202	PEB	C2A-C3A-CAA-CBA
29	cJ	202	PEB	NB-C1B-CHA-C4A
29	cJ	202	PEB	C2B-C1B-CHA-C4A
29	dJ	201	PEB	NB-C1B-CHA-C4A
29	dJ	201	PEB	C2B-C1B-CHA-C4A
29	dJ	202	PEB	C2D-C3D-CAD-CBD
29	dJ	202	PEB	C4D-C3D-CAD-CBD
29	dJ	202	PEB	C4A-C3A-CAA-CBA
29	dJ	202	PEB	NB-C1B-CHA-C4A
29	dJ	202	PEB	C2B-C1B-CHA-C4A
29	dJ	203	PEB	ND-C1D-CHC-C4C
29	dJ	203	PEB	C2D-C1D-CHC-C4C
29	dJ	203	PEB	NC-C1C-CHB-C4B
29	dJ	203	PEB	C2C-C1C-CHB-C4B
29	dJ	203	PEB	C2A-C3A-CAA-CBA
29	dJ	203	PEB	C4A-C3A-CAA-CBA
29	dJ	203	PEB	NB-C1B-CHA-C4A
29	dJ	203	PEB	C2B-C1B-CHA-C4A
29	eJ	201	PEB	C4A-C3A-CAA-CBA
29	eJ	201	PEB	NB-C1B-CHA-C4A
29	eJ	201	PEB	C2B-C1B-CHA-C4A
29	eJ	202	PEB	NC-C1C-CHB-C4B
29	eJ	202	PEB	C2C-C1C-CHB-C4B
29	eJ	202	PEB	C2C-CAC-CBC-CGC
29	eJ	202	PEB	C2A-C3A-CAA-CBA
29	eJ	202	PEB	NB-C1B-CHA-C4A
29	eJ	202	PEB	C2B-C1B-CHA-C4A
29	fJ	201	PEB	NB-C1B-CHA-C4A
29	fJ	201	PEB	C2B-C1B-CHA-C4A
29	fJ	202	PEB	C2D-C3D-CAD-CBD
29	fJ	202	PEB	C4D-C3D-CAD-CBD
29	fJ	202	PEB	C4A-C3A-CAA-CBA
29	fJ	202	PEB	NB-C1B-CHA-C4A
29	fJ	202	PEB	C2B-C1B-CHA-C4A
29	fJ	203	PEB	ND-C1D-CHC-C4C
29	fJ	203	PEB	C2D-C1D-CHC-C4C
29	fJ	203	PEB	NC-C1C-CHB-C4B
29	fJ	203	PEB	C2C-C1C-CHB-C4B
29	fJ	203	PEB	C2A-C3A-CAA-CBA
29	fJ	203	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	fJ	203	PEB	NB-C1B-CHA-C4A
29	fJ	203	PEB	C2B-C1B-CHA-C4A
29	gJ	201	PEB	C4A-C3A-CAA-CBA
29	gJ	201	PEB	NB-C1B-CHA-C4A
29	gJ	201	PEB	C2B-C1B-CHA-C4A
29	gJ	202	PEB	NC-C1C-CHB-C4B
29	gJ	202	PEB	C2C-C1C-CHB-C4B
29	gJ	202	PEB	C2C-CAC-CBC-CGC
29	gJ	202	PEB	C2A-C3A-CAA-CBA
29	gJ	202	PEB	NB-C1B-CHA-C4A
29	gJ	202	PEB	C2B-C1B-CHA-C4A
29	hJ	201	PEB	NB-C1B-CHA-C4A
29	hJ	201	PEB	C2B-C1B-CHA-C4A
29	hJ	202	PEB	C2D-C3D-CAD-CBD
29	hJ	202	PEB	C4D-C3D-CAD-CBD
29	hJ	202	PEB	C4A-C3A-CAA-CBA
29	hJ	202	PEB	NB-C1B-CHA-C4A
29	hJ	202	PEB	C2B-C1B-CHA-C4A
29	hJ	203	PEB	ND-C1D-CHC-C4C
29	hJ	203	PEB	C2D-C1D-CHC-C4C
29	hJ	203	PEB	NC-C1C-CHB-C4B
29	hJ	203	PEB	C2C-C1C-CHB-C4B
29	hJ	203	PEB	C2A-C3A-CAA-CBA
29	hJ	203	PEB	C4A-C3A-CAA-CBA
29	hJ	203	PEB	NB-C1B-CHA-C4A
29	hJ	203	PEB	C2B-C1B-CHA-C4A
29	iJ	201	PEB	C4A-C3A-CAA-CBA
29	iJ	201	PEB	NB-C1B-CHA-C4A
29	iJ	201	PEB	C2B-C1B-CHA-C4A
29	iJ	202	PEB	NC-C1C-CHB-C4B
29	iJ	202	PEB	C2C-C1C-CHB-C4B
29	iJ	202	PEB	C2C-CAC-CBC-CGC
29	iJ	202	PEB	C2A-C3A-CAA-CBA
29	iJ	202	PEB	NB-C1B-CHA-C4A
29	iJ	202	PEB	C2B-C1B-CHA-C4A
29	jJ	201	PEB	NB-C1B-CHA-C4A
29	jJ	201	PEB	C2B-C1B-CHA-C4A
29	jJ	202	PEB	C2D-C3D-CAD-CBD
29	jJ	202	PEB	C4D-C3D-CAD-CBD
29	jJ	202	PEB	C4A-C3A-CAA-CBA
29	jJ	202	PEB	NB-C1B-CHA-C4A
29	jJ	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	jJ	203	PEB	ND-C1D-CHC-C4C
29	jJ	203	PEB	C2D-C1D-CHC-C4C
29	jJ	203	PEB	NC-C1C-CHB-C4B
29	jJ	203	PEB	C2C-C1C-CHB-C4B
29	jJ	203	PEB	C2A-C3A-CAA-CBA
29	jJ	203	PEB	C4A-C3A-CAA-CBA
29	jJ	203	PEB	NB-C1B-CHA-C4A
29	jJ	203	PEB	C2B-C1B-CHA-C4A
29	kJ	201	PEB	C4A-C3A-CAA-CBA
29	kJ	201	PEB	NB-C1B-CHA-C4A
29	kJ	201	PEB	C2B-C1B-CHA-C4A
29	kJ	202	PEB	NC-C1C-CHB-C4B
29	kJ	202	PEB	C2C-C1C-CHB-C4B
29	kJ	202	PEB	C2C-CAC-CBC-CGC
29	kJ	202	PEB	C2A-C3A-CAA-CBA
29	kJ	202	PEB	NB-C1B-CHA-C4A
29	kJ	202	PEB	C2B-C1B-CHA-C4A
29	lJ	201	PEB	NB-C1B-CHA-C4A
29	lJ	201	PEB	C2B-C1B-CHA-C4A
29	lJ	202	PEB	C2D-C3D-CAD-CBD
29	lJ	202	PEB	C4D-C3D-CAD-CBD
29	lJ	202	PEB	C4A-C3A-CAA-CBA
29	lJ	202	PEB	NB-C1B-CHA-C4A
29	lJ	202	PEB	C2B-C1B-CHA-C4A
29	lJ	203	PEB	ND-C1D-CHC-C4C
29	lJ	203	PEB	C2D-C1D-CHC-C4C
29	lJ	203	PEB	NC-C1C-CHB-C4B
29	lJ	203	PEB	C2C-C1C-CHB-C4B
29	lJ	203	PEB	C2A-C3A-CAA-CBA
29	lJ	203	PEB	C4A-C3A-CAA-CBA
29	lJ	203	PEB	NB-C1B-CHA-C4A
29	lJ	203	PEB	C2B-C1B-CHA-C4A
29	mJ	201	PEB	C4A-C3A-CAA-CBA
29	mJ	201	PEB	NB-C1B-CHA-C4A
29	mJ	201	PEB	C2B-C1B-CHA-C4A
29	mJ	202	PEB	NC-C1C-CHB-C4B
29	mJ	202	PEB	C2C-C1C-CHB-C4B
29	mJ	202	PEB	C2C-CAC-CBC-CGC
29	mJ	202	PEB	C2A-C3A-CAA-CBA
29	mJ	202	PEB	NB-C1B-CHA-C4A
29	mJ	202	PEB	C2B-C1B-CHA-C4A
29	nJ	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	nJ	201	PEB	C2B-C1B-CHA-C4A
29	nJ	202	PEB	C2D-C3D-CAD-CBD
29	nJ	202	PEB	C4D-C3D-CAD-CBD
29	nJ	202	PEB	C4A-C3A-CAA-CBA
29	nJ	202	PEB	NB-C1B-CHA-C4A
29	nJ	202	PEB	C2B-C1B-CHA-C4A
29	nJ	203	PEB	ND-C1D-CHC-C4C
29	nJ	203	PEB	C2D-C1D-CHC-C4C
29	nJ	203	PEB	NC-C1C-CHB-C4B
29	nJ	203	PEB	C2C-C1C-CHB-C4B
29	nJ	203	PEB	C2A-C3A-CAA-CBA
29	nJ	203	PEB	C4A-C3A-CAA-CBA
29	nJ	203	PEB	NB-C1B-CHA-C4A
29	nJ	203	PEB	C2B-C1B-CHA-C4A
29	oJ	201	PEB	C4A-C3A-CAA-CBA
29	oJ	201	PEB	NB-C1B-CHA-C4A
29	oJ	201	PEB	C2B-C1B-CHA-C4A
29	oJ	202	PEB	NC-C1C-CHB-C4B
29	oJ	202	PEB	C2C-C1C-CHB-C4B
29	oJ	202	PEB	C2C-CAC-CBC-CGC
29	oJ	202	PEB	C2A-C3A-CAA-CBA
29	oJ	202	PEB	NB-C1B-CHA-C4A
29	oJ	202	PEB	C2B-C1B-CHA-C4A
29	pJ	201	PEB	NB-C1B-CHA-C4A
29	pJ	201	PEB	C2B-C1B-CHA-C4A
29	pJ	202	PEB	C2D-C3D-CAD-CBD
29	pJ	202	PEB	C4D-C3D-CAD-CBD
29	pJ	202	PEB	C4A-C3A-CAA-CBA
29	pJ	202	PEB	NB-C1B-CHA-C4A
29	pJ	202	PEB	C2B-C1B-CHA-C4A
29	pJ	203	PEB	ND-C1D-CHC-C4C
29	pJ	203	PEB	C2D-C1D-CHC-C4C
29	pJ	203	PEB	NC-C1C-CHB-C4B
29	pJ	203	PEB	C2C-C1C-CHB-C4B
29	pJ	203	PEB	C2A-C3A-CAA-CBA
29	pJ	203	PEB	C4A-C3A-CAA-CBA
29	pJ	203	PEB	NB-C1B-CHA-C4A
29	pJ	203	PEB	C2B-C1B-CHA-C4A
29	qJ	201	PEB	C4A-C3A-CAA-CBA
29	qJ	201	PEB	NB-C1B-CHA-C4A
29	qJ	201	PEB	C2B-C1B-CHA-C4A
29	qJ	202	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	qJ	202	PEB	C2C-C1C-CHB-C4B
29	qJ	202	PEB	C2C-CAC-CBC-CGC
29	qJ	202	PEB	C2A-C3A-CAA-CBA
29	qJ	202	PEB	NB-C1B-CHA-C4A
29	qJ	202	PEB	C2B-C1B-CHA-C4A
29	rJ	201	PEB	NB-C1B-CHA-C4A
29	rJ	201	PEB	C2B-C1B-CHA-C4A
29	rJ	202	PEB	C2D-C3D-CAD-CBD
29	rJ	202	PEB	C4D-C3D-CAD-CBD
29	rJ	202	PEB	C4A-C3A-CAA-CBA
29	rJ	202	PEB	NB-C1B-CHA-C4A
29	rJ	202	PEB	C2B-C1B-CHA-C4A
29	rJ	203	PEB	ND-C1D-CHC-C4C
29	rJ	203	PEB	C2D-C1D-CHC-C4C
29	rJ	203	PEB	NC-C1C-CHB-C4B
29	rJ	203	PEB	C2C-C1C-CHB-C4B
29	rJ	203	PEB	C2A-C3A-CAA-CBA
29	rJ	203	PEB	C4A-C3A-CAA-CBA
29	rJ	203	PEB	NB-C1B-CHA-C4A
29	rJ	203	PEB	C2B-C1B-CHA-C4A
29	sJ	201	PEB	C4A-C3A-CAA-CBA
29	sJ	201	PEB	NB-C1B-CHA-C4A
29	sJ	201	PEB	C2B-C1B-CHA-C4A
29	sJ	202	PEB	NC-C1C-CHB-C4B
29	sJ	202	PEB	C2C-C1C-CHB-C4B
29	sJ	202	PEB	C2C-CAC-CBC-CGC
29	sJ	202	PEB	C2A-C3A-CAA-CBA
29	sJ	202	PEB	NB-C1B-CHA-C4A
29	sJ	202	PEB	C2B-C1B-CHA-C4A
29	sJ	203	PEB	C2D-C3D-CAD-CBD
29	sJ	203	PEB	C4D-C3D-CAD-CBD
29	sJ	203	PEB	C4A-C3A-CAA-CBA
29	sJ	203	PEB	NB-C1B-CHA-C4A
29	sJ	203	PEB	C2B-C1B-CHA-C4A
29	tJ	201	PEB	NB-C1B-CHA-C4A
29	tJ	201	PEB	C2B-C1B-CHA-C4A
29	tJ	202	PEB	ND-C1D-CHC-C4C
29	tJ	202	PEB	C2D-C1D-CHC-C4C
29	tJ	202	PEB	NC-C1C-CHB-C4B
29	tJ	202	PEB	C2C-C1C-CHB-C4B
29	tJ	202	PEB	C2A-C3A-CAA-CBA
29	tJ	202	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	tJ	202	PEB	NB-C1B-CHA-C4A
29	tJ	202	PEB	C2B-C1B-CHA-C4A
29	uJ	201	PEB	C2D-C3D-CAD-CBD
29	uJ	201	PEB	C4D-C3D-CAD-CBD
29	uJ	201	PEB	C4A-C3A-CAA-CBA
29	uJ	201	PEB	NB-C1B-CHA-C4A
29	uJ	201	PEB	C2B-C1B-CHA-C4A
29	uJ	202	PEB	C4A-C3A-CAA-CBA
29	uJ	202	PEB	NB-C1B-CHA-C4A
29	uJ	202	PEB	C2B-C1B-CHA-C4A
29	uJ	203	PEB	NC-C1C-CHB-C4B
29	uJ	203	PEB	C2C-C1C-CHB-C4B
29	uJ	203	PEB	C2C-CAC-CBC-CGC
29	uJ	203	PEB	C2A-C3A-CAA-CBA
29	uJ	203	PEB	NB-C1B-CHA-C4A
29	uJ	203	PEB	C2B-C1B-CHA-C4A
29	vJ	201	PEB	NB-C1B-CHA-C4A
29	vJ	201	PEB	C2B-C1B-CHA-C4A
29	vJ	202	PEB	ND-C1D-CHC-C4C
29	vJ	202	PEB	C2D-C1D-CHC-C4C
29	vJ	202	PEB	NC-C1C-CHB-C4B
29	vJ	202	PEB	C2C-C1C-CHB-C4B
29	vJ	202	PEB	C2A-C3A-CAA-CBA
29	vJ	202	PEB	C4A-C3A-CAA-CBA
29	vJ	202	PEB	NB-C1B-CHA-C4A
29	vJ	202	PEB	C2B-C1B-CHA-C4A
29	wJ	301	PEB	ND-C1D-CHC-C4C
29	wJ	301	PEB	C2C-CAC-CBC-CGC
29	wJ	301	PEB	C2A-C3A-CAA-CBA
29	wJ	301	PEB	C4A-C3A-CAA-CBA
29	wJ	301	PEB	NB-C1B-CHA-C4A
29	wJ	301	PEB	C2B-C1B-CHA-C4A
29	wJ	302	PEB	NB-C1B-CHA-C4A
29	wJ	302	PEB	C2B-C1B-CHA-C4A
29	wJ	303	PEB	NC-C1C-CHB-C4B
29	wJ	303	PEB	C2C-C1C-CHB-C4B
29	wJ	303	PEB	C2C-CAC-CBC-CGC
29	wJ	303	PEB	C2A-C3A-CAA-CBA
29	wJ	303	PEB	C4A-C3A-CAA-CBA
29	wJ	303	PEB	NB-C1B-CHA-C4A
29	wJ	303	PEB	C2B-C1B-CHA-C4A
29	wJ	303	PEB	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	xJ	301	PEB	ND-C1D-CHC-C4C
29	xJ	301	PEB	C2C-CAC-CBC-CGC
29	xJ	301	PEB	C2A-C3A-CAA-CBA
29	xJ	301	PEB	C4A-C3A-CAA-CBA
29	xJ	301	PEB	NB-C1B-CHA-C4A
29	xJ	301	PEB	C2B-C1B-CHA-C4A
29	xJ	302	PEB	NB-C1B-CHA-C4A
29	xJ	302	PEB	C2B-C1B-CHA-C4A
29	xJ	303	PEB	NC-C1C-CHB-C4B
29	xJ	303	PEB	C2C-C1C-CHB-C4B
29	xJ	303	PEB	C2C-CAC-CBC-CGC
29	xJ	303	PEB	C2A-C3A-CAA-CBA
29	xJ	303	PEB	C4A-C3A-CAA-CBA
29	xJ	303	PEB	NB-C1B-CHA-C4A
29	xJ	303	PEB	C2B-C1B-CHA-C4A
29	xJ	303	PEB	C4B-C3B-CAB-CBB
29	yJ	301	PEB	C2A-C3A-CAA-CBA
29	yJ	301	PEB	C4A-C3A-CAA-CBA
29	yJ	301	PEB	NB-C1B-CHA-C4A
29	yJ	301	PEB	C2B-C1B-CHA-C4A
29	zJ	501	PEB	C4A-C3A-CAA-CBA
29	zJ	501	PEB	NB-C1B-CHA-C4A
29	zJ	501	PEB	C2B-C1B-CHA-C4A
29	AK	301	PEB	NB-C1B-CHA-C4A
29	AK	301	PEB	C2B-C1B-CHA-C4A
29	AK	302	PEB	ND-C1D-CHC-C4C
29	AK	302	PEB	NB-C1B-CHA-C4A
29	AK	302	PEB	C2B-C1B-CHA-C4A
29	AK	303	PEB	C4A-C3A-CAA-CBA
29	AK	303	PEB	NB-C1B-CHA-C4A
29	AK	303	PEB	C2B-C1B-CHA-C4A
29	DK	1002	PEB	C2A-C3A-CAA-CBA
29	DK	1002	PEB	C4A-C3A-CAA-CBA
29	DK	1002	PEB	NB-C1B-CHA-C4A
29	DK	1002	PEB	C2B-C1B-CHA-C4A
29	FK	1002	PEB	C2A-C3A-CAA-CBA
29	FK	1002	PEB	C4A-C3A-CAA-CBA
29	FK	1002	PEB	NB-C1B-CHA-C4A
29	FK	1002	PEB	C2B-C1B-CHA-C4A
29	HK	1002	PEB	C2A-C3A-CAA-CBA
29	HK	1002	PEB	C4A-C3A-CAA-CBA
29	HK	1002	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	HK	1002	PEB	C2B-C1B-CHA-C4A
29	JK	1002	PEB	C2A-C3A-CAA-CBA
29	JK	1002	PEB	C4A-C3A-CAA-CBA
29	JK	1002	PEB	NB-C1B-CHA-C4A
29	JK	1002	PEB	C2B-C1B-CHA-C4A
29	LK	1002	PEB	C2A-C3A-CAA-CBA
29	LK	1002	PEB	C4A-C3A-CAA-CBA
29	LK	1002	PEB	NB-C1B-CHA-C4A
29	LK	1002	PEB	C2B-C1B-CHA-C4A
29	NK	1002	PEB	C2A-C3A-CAA-CBA
29	NK	1002	PEB	C4A-C3A-CAA-CBA
29	NK	1002	PEB	NB-C1B-CHA-C4A
29	NK	1002	PEB	C2B-C1B-CHA-C4A
29	OK	201	PEB	ND-C1D-CHC-C4C
29	OK	201	PEB	NB-C1B-CHA-C4A
29	OK	201	PEB	C2B-C1B-CHA-C4A
29	OK	202	PEB	NB-C1B-CHA-C4A
29	OK	202	PEB	C2B-C1B-CHA-C4A
29	PK	201	PEB	NB-C1B-CHA-C4A
29	PK	201	PEB	C2B-C1B-CHA-C4A
29	PK	202	PEB	NB-C1B-CHA-C4A
29	PK	202	PEB	C2B-C1B-CHA-C4A
29	PK	203	PEB	NB-C1B-CHA-C4A
29	PK	203	PEB	C2B-C1B-CHA-C4A
29	QK	201	PEB	ND-C1D-CHC-C4C
29	QK	201	PEB	NB-C1B-CHA-C4A
29	QK	201	PEB	C2B-C1B-CHA-C4A
29	QK	202	PEB	NB-C1B-CHA-C4A
29	QK	202	PEB	C2B-C1B-CHA-C4A
29	RK	201	PEB	NB-C1B-CHA-C4A
29	RK	201	PEB	C2B-C1B-CHA-C4A
29	RK	202	PEB	NB-C1B-CHA-C4A
29	RK	202	PEB	C2B-C1B-CHA-C4A
29	RK	203	PEB	NB-C1B-CHA-C4A
29	RK	203	PEB	C2B-C1B-CHA-C4A
29	SK	201	PEB	ND-C1D-CHC-C4C
29	SK	201	PEB	NB-C1B-CHA-C4A
29	SK	201	PEB	C2B-C1B-CHA-C4A
29	SK	202	PEB	NB-C1B-CHA-C4A
29	SK	202	PEB	C2B-C1B-CHA-C4A
29	TK	201	PEB	NB-C1B-CHA-C4A
29	TK	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	TK	202	PEB	NB-C1B-CHA-C4A
29	TK	202	PEB	C2B-C1B-CHA-C4A
29	UK	201	PEB	NB-C1B-CHA-C4A
29	UK	201	PEB	C2B-C1B-CHA-C4A
29	UK	202	PEB	ND-C1D-CHC-C4C
29	UK	202	PEB	NB-C1B-CHA-C4A
29	UK	202	PEB	C2B-C1B-CHA-C4A
29	UK	203	PEB	NB-C1B-CHA-C4A
29	UK	203	PEB	C2B-C1B-CHA-C4A
29	VK	201	PEB	NB-C1B-CHA-C4A
29	VK	201	PEB	C2B-C1B-CHA-C4A
29	VK	202	PEB	NB-C1B-CHA-C4A
29	VK	202	PEB	C2B-C1B-CHA-C4A
29	VK	203	PEB	NB-C1B-CHA-C4A
29	VK	203	PEB	C2B-C1B-CHA-C4A
29	WK	201	PEB	ND-C1D-CHC-C4C
29	WK	201	PEB	NB-C1B-CHA-C4A
29	WK	201	PEB	C2B-C1B-CHA-C4A
29	WK	202	PEB	NB-C1B-CHA-C4A
29	WK	202	PEB	C2B-C1B-CHA-C4A
29	YK	201	PEB	NB-C1B-CHA-C4A
29	YK	201	PEB	C2B-C1B-CHA-C4A
29	YK	202	PEB	NB-C1B-CHA-C4A
29	YK	202	PEB	C2B-C1B-CHA-C4A
29	ZK	201	PEB	NB-C1B-CHA-C4A
29	ZK	201	PEB	C2B-C1B-CHA-C4A
29	ZK	202	PEB	ND-C1D-CHC-C4C
29	ZK	202	PEB	NB-C1B-CHA-C4A
29	ZK	202	PEB	C2B-C1B-CHA-C4A
29	ZK	203	PEB	NB-C1B-CHA-C4A
29	ZK	203	PEB	C2B-C1B-CHA-C4A
29	aK	201	PEB	NB-C1B-CHA-C4A
29	aK	201	PEB	C2B-C1B-CHA-C4A
29	aK	202	PEB	NB-C1B-CHA-C4A
29	aK	202	PEB	C2B-C1B-CHA-C4A
29	aK	203	PEB	NB-C1B-CHA-C4A
29	aK	203	PEB	C2B-C1B-CHA-C4A
29	bK	201	PEB	ND-C1D-CHC-C4C
29	bK	201	PEB	NB-C1B-CHA-C4A
29	bK	201	PEB	C2B-C1B-CHA-C4A
29	bK	202	PEB	NB-C1B-CHA-C4A
29	bK	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	cK	201	PEB	NB-C1B-CHA-C4A
29	cK	201	PEB	C2B-C1B-CHA-C4A
29	cK	202	PEB	NB-C1B-CHA-C4A
29	cK	202	PEB	C2B-C1B-CHA-C4A
29	cK	203	PEB	NB-C1B-CHA-C4A
29	cK	203	PEB	C2B-C1B-CHA-C4A
29	dK	201	PEB	ND-C1D-CHC-C4C
29	dK	201	PEB	NB-C1B-CHA-C4A
29	dK	201	PEB	C2B-C1B-CHA-C4A
29	dK	202	PEB	NB-C1B-CHA-C4A
29	dK	202	PEB	C2B-C1B-CHA-C4A
29	eK	201	PEB	NB-C1B-CHA-C4A
29	eK	201	PEB	C2B-C1B-CHA-C4A
29	eK	202	PEB	NB-C1B-CHA-C4A
29	eK	202	PEB	C2B-C1B-CHA-C4A
29	eK	203	PEB	NB-C1B-CHA-C4A
29	eK	203	PEB	C2B-C1B-CHA-C4A
29	fK	201	PEB	ND-C1D-CHC-C4C
29	fK	201	PEB	NB-C1B-CHA-C4A
29	fK	201	PEB	C2B-C1B-CHA-C4A
29	fK	202	PEB	NB-C1B-CHA-C4A
29	fK	202	PEB	C2B-C1B-CHA-C4A
29	gK	201	PEB	NB-C1B-CHA-C4A
29	gK	201	PEB	C2B-C1B-CHA-C4A
29	gK	202	PEB	NB-C1B-CHA-C4A
29	gK	202	PEB	C2B-C1B-CHA-C4A
29	gK	203	PEB	NB-C1B-CHA-C4A
29	gK	203	PEB	C2B-C1B-CHA-C4A
29	hK	201	PEB	ND-C1D-CHC-C4C
29	hK	201	PEB	NB-C1B-CHA-C4A
29	hK	201	PEB	C2B-C1B-CHA-C4A
29	hK	202	PEB	NB-C1B-CHA-C4A
29	hK	202	PEB	C2B-C1B-CHA-C4A
29	iK	201	PEB	NB-C1B-CHA-C4A
29	iK	201	PEB	C2B-C1B-CHA-C4A
29	iK	202	PEB	NB-C1B-CHA-C4A
29	iK	202	PEB	C2B-C1B-CHA-C4A
29	iK	203	PEB	NB-C1B-CHA-C4A
29	iK	203	PEB	C2B-C1B-CHA-C4A
29	jK	201	PEB	ND-C1D-CHC-C4C
29	jK	201	PEB	NB-C1B-CHA-C4A
29	jK	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	jK	202	PEB	NB-C1B-CHA-C4A
29	jK	202	PEB	C2B-C1B-CHA-C4A
29	jK	203	PEB	NB-C1B-CHA-C4A
29	jK	203	PEB	C2B-C1B-CHA-C4A
29	kK	201	PEB	NB-C1B-CHA-C4A
29	kK	201	PEB	C2B-C1B-CHA-C4A
29	kK	202	PEB	NB-C1B-CHA-C4A
29	kK	202	PEB	C2B-C1B-CHA-C4A
29	kK	203	PEB	NB-C1B-CHA-C4A
29	kK	203	PEB	C2B-C1B-CHA-C4A
29	lK	201	PEB	ND-C1D-CHC-C4C
29	lK	201	PEB	NB-C1B-CHA-C4A
29	lK	201	PEB	C2B-C1B-CHA-C4A
29	lK	202	PEB	NB-C1B-CHA-C4A
29	lK	202	PEB	C2B-C1B-CHA-C4A
29	mK	201	PEB	NB-C1B-CHA-C4A
29	mK	201	PEB	C2B-C1B-CHA-C4A
29	mK	202	PEB	NB-C1B-CHA-C4A
29	mK	202	PEB	C2B-C1B-CHA-C4A
29	AL	201	PEB	C4A-C3A-CAA-CBA
29	AL	201	PEB	NB-C1B-CHA-C4A
29	AL	201	PEB	C2B-C1B-CHA-C4A
29	AL	202	PEB	NC-C1C-CHB-C4B
29	AL	202	PEB	C2C-C1C-CHB-C4B
29	AL	202	PEB	C2C-CAC-CBC-CGC
29	AL	202	PEB	C2A-C3A-CAA-CBA
29	AL	202	PEB	NB-C1B-CHA-C4A
29	AL	202	PEB	C2B-C1B-CHA-C4A
29	AL	203	PEB	C2D-C3D-CAD-CBD
29	AL	203	PEB	C4D-C3D-CAD-CBD
29	AL	203	PEB	C4A-C3A-CAA-CBA
29	AL	203	PEB	NB-C1B-CHA-C4A
29	AL	203	PEB	C2B-C1B-CHA-C4A
29	BL	201	PEB	NB-C1B-CHA-C4A
29	BL	201	PEB	C2B-C1B-CHA-C4A
29	BL	202	PEB	C2D-C3D-CAD-CBD
29	BL	202	PEB	C4D-C3D-CAD-CBD
29	BL	202	PEB	C4A-C3A-CAA-CBA
29	BL	202	PEB	NB-C1B-CHA-C4A
29	BL	202	PEB	C2B-C1B-CHA-C4A
29	BL	203	PEB	ND-C1D-CHC-C4C
29	BL	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	BL	203	PEB	NC-C1C-CHB-C4B
29	BL	203	PEB	C2C-C1C-CHB-C4B
29	BL	203	PEB	C2A-C3A-CAA-CBA
29	BL	203	PEB	C4A-C3A-CAA-CBA
29	BL	203	PEB	NB-C1B-CHA-C4A
29	BL	203	PEB	C2B-C1B-CHA-C4A
29	CL	201	PEB	C4A-C3A-CAA-CBA
29	CL	201	PEB	NB-C1B-CHA-C4A
29	CL	201	PEB	C2B-C1B-CHA-C4A
29	CL	202	PEB	NC-C1C-CHB-C4B
29	CL	202	PEB	C2C-C1C-CHB-C4B
29	CL	202	PEB	C2C-CAC-CBC-CGC
29	CL	202	PEB	C2A-C3A-CAA-CBA
29	CL	202	PEB	NB-C1B-CHA-C4A
29	CL	202	PEB	C2B-C1B-CHA-C4A
29	DL	201	PEB	NB-C1B-CHA-C4A
29	DL	201	PEB	C2B-C1B-CHA-C4A
29	DL	202	PEB	ND-C1D-CHC-C4C
29	DL	202	PEB	C2D-C1D-CHC-C4C
29	DL	202	PEB	NC-C1C-CHB-C4B
29	DL	202	PEB	C2C-C1C-CHB-C4B
29	DL	202	PEB	C2A-C3A-CAA-CBA
29	DL	202	PEB	C4A-C3A-CAA-CBA
29	DL	202	PEB	NB-C1B-CHA-C4A
29	DL	202	PEB	C2B-C1B-CHA-C4A
29	EL	201	PEB	C4A-C3A-CAA-CBA
29	EL	201	PEB	NB-C1B-CHA-C4A
29	EL	201	PEB	C2B-C1B-CHA-C4A
29	EL	202	PEB	NC-C1C-CHB-C4B
29	EL	202	PEB	C2C-C1C-CHB-C4B
29	EL	202	PEB	C2C-CAC-CBC-CGC
29	EL	202	PEB	C2A-C3A-CAA-CBA
29	EL	202	PEB	NB-C1B-CHA-C4A
29	EL	202	PEB	C2B-C1B-CHA-C4A
29	FL	201	PEB	NB-C1B-CHA-C4A
29	FL	201	PEB	C2B-C1B-CHA-C4A
29	FL	202	PEB	C2D-C3D-CAD-CBD
29	FL	202	PEB	C4D-C3D-CAD-CBD
29	FL	202	PEB	C4A-C3A-CAA-CBA
29	FL	202	PEB	NB-C1B-CHA-C4A
29	FL	202	PEB	C2B-C1B-CHA-C4A
29	FL	203	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	FL	203	PEB	C2D-C1D-CHC-C4C
29	FL	203	PEB	NC-C1C-CHB-C4B
29	FL	203	PEB	C2C-C1C-CHB-C4B
29	FL	203	PEB	C2A-C3A-CAA-CBA
29	FL	203	PEB	C4A-C3A-CAA-CBA
29	FL	203	PEB	NB-C1B-CHA-C4A
29	FL	203	PEB	C2B-C1B-CHA-C4A
29	GL	201	PEB	C4A-C3A-CAA-CBA
29	GL	201	PEB	NB-C1B-CHA-C4A
29	GL	201	PEB	C2B-C1B-CHA-C4A
29	GL	202	PEB	NC-C1C-CHB-C4B
29	GL	202	PEB	C2C-C1C-CHB-C4B
29	GL	202	PEB	C2C-CAC-CBC-CGC
29	GL	202	PEB	C2A-C3A-CAA-CBA
29	GL	202	PEB	NB-C1B-CHA-C4A
29	GL	202	PEB	C2B-C1B-CHA-C4A
29	HL	201	PEB	C2D-C3D-CAD-CBD
29	HL	201	PEB	C4D-C3D-CAD-CBD
29	HL	201	PEB	C4A-C3A-CAA-CBA
29	HL	201	PEB	NB-C1B-CHA-C4A
29	HL	201	PEB	C2B-C1B-CHA-C4A
29	HL	202	PEB	ND-C1D-CHC-C4C
29	HL	202	PEB	C2D-C1D-CHC-C4C
29	HL	202	PEB	NC-C1C-CHB-C4B
29	HL	202	PEB	C2C-C1C-CHB-C4B
29	HL	202	PEB	C2A-C3A-CAA-CBA
29	HL	202	PEB	C4A-C3A-CAA-CBA
29	HL	202	PEB	NB-C1B-CHA-C4A
29	HL	202	PEB	C2B-C1B-CHA-C4A
29	IL	201	PEB	C4A-C3A-CAA-CBA
29	IL	201	PEB	NB-C1B-CHA-C4A
29	IL	201	PEB	C2B-C1B-CHA-C4A
29	IL	202	PEB	NC-C1C-CHB-C4B
29	IL	202	PEB	C2C-C1C-CHB-C4B
29	IL	202	PEB	C2C-CAC-CBC-CGC
29	IL	202	PEB	C2A-C3A-CAA-CBA
29	IL	202	PEB	NB-C1B-CHA-C4A
29	IL	202	PEB	C2B-C1B-CHA-C4A
29	IL	203	PEB	C2D-C3D-CAD-CBD
29	IL	203	PEB	C4D-C3D-CAD-CBD
29	IL	203	PEB	C4A-C3A-CAA-CBA
29	IL	203	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	IL	203	PEB	C2B-C1B-CHA-C4A
29	JL	201	PEB	NB-C1B-CHA-C4A
29	JL	201	PEB	C2B-C1B-CHA-C4A
29	JL	202	PEB	C2D-C3D-CAD-CBD
29	JL	202	PEB	C4D-C3D-CAD-CBD
29	JL	202	PEB	C4A-C3A-CAA-CBA
29	JL	202	PEB	NB-C1B-CHA-C4A
29	JL	202	PEB	C2B-C1B-CHA-C4A
29	JL	203	PEB	ND-C1D-CHC-C4C
29	JL	203	PEB	C2D-C1D-CHC-C4C
29	JL	203	PEB	NC-C1C-CHB-C4B
29	JL	203	PEB	C2C-C1C-CHB-C4B
29	JL	203	PEB	C2A-C3A-CAA-CBA
29	JL	203	PEB	C4A-C3A-CAA-CBA
29	JL	203	PEB	NB-C1B-CHA-C4A
29	JL	203	PEB	C2B-C1B-CHA-C4A
29	KL	201	PEB	C4A-C3A-CAA-CBA
29	KL	201	PEB	NB-C1B-CHA-C4A
29	KL	201	PEB	C2B-C1B-CHA-C4A
29	KL	202	PEB	NC-C1C-CHB-C4B
29	KL	202	PEB	C2C-C1C-CHB-C4B
29	KL	202	PEB	C2C-CAC-CBC-CGC
29	KL	202	PEB	C2A-C3A-CAA-CBA
29	KL	202	PEB	NB-C1B-CHA-C4A
29	KL	202	PEB	C2B-C1B-CHA-C4A
29	LL	201	PEB	NB-C1B-CHA-C4A
29	LL	201	PEB	C2B-C1B-CHA-C4A
29	LL	202	PEB	ND-C1D-CHC-C4C
29	LL	202	PEB	C2D-C1D-CHC-C4C
29	LL	202	PEB	NC-C1C-CHB-C4B
29	LL	202	PEB	C2C-C1C-CHB-C4B
29	LL	202	PEB	C2A-C3A-CAA-CBA
29	LL	202	PEB	C4A-C3A-CAA-CBA
29	LL	202	PEB	NB-C1B-CHA-C4A
29	LL	202	PEB	C2B-C1B-CHA-C4A
29	ML	201	PEB	C4A-C3A-CAA-CBA
29	ML	201	PEB	NB-C1B-CHA-C4A
29	ML	201	PEB	C2B-C1B-CHA-C4A
29	ML	202	PEB	NC-C1C-CHB-C4B
29	ML	202	PEB	C2C-C1C-CHB-C4B
29	ML	202	PEB	C2C-CAC-CBC-CGC
29	ML	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	ML	202	PEB	NB-C1B-CHA-C4A
29	ML	202	PEB	C2B-C1B-CHA-C4A
29	NL	201	PEB	NB-C1B-CHA-C4A
29	NL	201	PEB	C2B-C1B-CHA-C4A
29	NL	202	PEB	C2D-C3D-CAD-CBD
29	NL	202	PEB	C4D-C3D-CAD-CBD
29	NL	202	PEB	C4A-C3A-CAA-CBA
29	NL	202	PEB	NB-C1B-CHA-C4A
29	NL	202	PEB	C2B-C1B-CHA-C4A
29	NL	203	PEB	ND-C1D-CHC-C4C
29	NL	203	PEB	C2D-C1D-CHC-C4C
29	NL	203	PEB	NC-C1C-CHB-C4B
29	NL	203	PEB	C2C-C1C-CHB-C4B
29	NL	203	PEB	C2A-C3A-CAA-CBA
29	NL	203	PEB	C4A-C3A-CAA-CBA
29	NL	203	PEB	NB-C1B-CHA-C4A
29	NL	203	PEB	C2B-C1B-CHA-C4A
29	OL	201	PEB	C4A-C3A-CAA-CBA
29	OL	201	PEB	NB-C1B-CHA-C4A
29	OL	201	PEB	C2B-C1B-CHA-C4A
29	OL	202	PEB	NC-C1C-CHB-C4B
29	OL	202	PEB	C2C-C1C-CHB-C4B
29	OL	202	PEB	C2C-CAC-CBC-CGC
29	OL	202	PEB	C2A-C3A-CAA-CBA
29	OL	202	PEB	NB-C1B-CHA-C4A
29	OL	202	PEB	C2B-C1B-CHA-C4A
29	PL	201	PEB	NB-C1B-CHA-C4A
29	PL	201	PEB	C2B-C1B-CHA-C4A
29	PL	202	PEB	C2D-C3D-CAD-CBD
29	PL	202	PEB	C4D-C3D-CAD-CBD
29	PL	202	PEB	C4A-C3A-CAA-CBA
29	PL	202	PEB	NB-C1B-CHA-C4A
29	PL	202	PEB	C2B-C1B-CHA-C4A
29	PL	203	PEB	ND-C1D-CHC-C4C
29	PL	203	PEB	C2D-C1D-CHC-C4C
29	PL	203	PEB	NC-C1C-CHB-C4B
29	PL	203	PEB	C2C-C1C-CHB-C4B
29	PL	203	PEB	C2A-C3A-CAA-CBA
29	PL	203	PEB	C4A-C3A-CAA-CBA
29	PL	203	PEB	NB-C1B-CHA-C4A
29	PL	203	PEB	C2B-C1B-CHA-C4A
29	QL	201	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	QL	201	PEB	NB-C1B-CHA-C4A
29	QL	201	PEB	C2B-C1B-CHA-C4A
29	QL	202	PEB	NC-C1C-CHB-C4B
29	QL	202	PEB	C2C-C1C-CHB-C4B
29	QL	202	PEB	C2C-CAC-CBC-CGC
29	QL	202	PEB	C2A-C3A-CAA-CBA
29	QL	202	PEB	NB-C1B-CHA-C4A
29	QL	202	PEB	C2B-C1B-CHA-C4A
29	RL	201	PEB	NB-C1B-CHA-C4A
29	RL	201	PEB	C2B-C1B-CHA-C4A
29	RL	202	PEB	C2D-C3D-CAD-CBD
29	RL	202	PEB	C4D-C3D-CAD-CBD
29	RL	202	PEB	C4A-C3A-CAA-CBA
29	RL	202	PEB	NB-C1B-CHA-C4A
29	RL	202	PEB	C2B-C1B-CHA-C4A
29	RL	203	PEB	ND-C1D-CHC-C4C
29	RL	203	PEB	C2D-C1D-CHC-C4C
29	RL	203	PEB	NC-C1C-CHB-C4B
29	RL	203	PEB	C2C-C1C-CHB-C4B
29	RL	203	PEB	C2A-C3A-CAA-CBA
29	RL	203	PEB	C4A-C3A-CAA-CBA
29	RL	203	PEB	NB-C1B-CHA-C4A
29	RL	203	PEB	C2B-C1B-CHA-C4A
29	SL	201	PEB	C4A-C3A-CAA-CBA
29	SL	201	PEB	NB-C1B-CHA-C4A
29	SL	201	PEB	C2B-C1B-CHA-C4A
29	SL	202	PEB	NC-C1C-CHB-C4B
29	SL	202	PEB	C2C-C1C-CHB-C4B
29	SL	202	PEB	C2C-CAC-CBC-CGC
29	SL	202	PEB	C2A-C3A-CAA-CBA
29	SL	202	PEB	NB-C1B-CHA-C4A
29	SL	202	PEB	C2B-C1B-CHA-C4A
29	TL	201	PEB	NB-C1B-CHA-C4A
29	TL	201	PEB	C2B-C1B-CHA-C4A
29	TL	202	PEB	C2D-C3D-CAD-CBD
29	TL	202	PEB	C4D-C3D-CAD-CBD
29	TL	202	PEB	C4A-C3A-CAA-CBA
29	TL	202	PEB	NB-C1B-CHA-C4A
29	TL	202	PEB	C2B-C1B-CHA-C4A
29	TL	203	PEB	ND-C1D-CHC-C4C
29	TL	203	PEB	C2D-C1D-CHC-C4C
29	TL	203	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	TL	203	PEB	C2C-C1C-CHB-C4B
29	TL	203	PEB	C2A-C3A-CAA-CBA
29	TL	203	PEB	C4A-C3A-CAA-CBA
29	TL	203	PEB	NB-C1B-CHA-C4A
29	TL	203	PEB	C2B-C1B-CHA-C4A
29	UL	201	PEB	C4A-C3A-CAA-CBA
29	UL	201	PEB	NB-C1B-CHA-C4A
29	UL	201	PEB	C2B-C1B-CHA-C4A
29	UL	202	PEB	NC-C1C-CHB-C4B
29	UL	202	PEB	C2C-C1C-CHB-C4B
29	UL	202	PEB	C2C-CAC-CBC-CGC
29	UL	202	PEB	C2A-C3A-CAA-CBA
29	UL	202	PEB	NB-C1B-CHA-C4A
29	UL	202	PEB	C2B-C1B-CHA-C4A
29	VL	201	PEB	NB-C1B-CHA-C4A
29	VL	201	PEB	C2B-C1B-CHA-C4A
29	VL	202	PEB	ND-C1D-CHC-C4C
29	VL	202	PEB	C2D-C1D-CHC-C4C
29	VL	202	PEB	NC-C1C-CHB-C4B
29	VL	202	PEB	C2C-C1C-CHB-C4B
29	VL	202	PEB	C2A-C3A-CAA-CBA
29	VL	202	PEB	C4A-C3A-CAA-CBA
29	VL	202	PEB	NB-C1B-CHA-C4A
29	VL	202	PEB	C2B-C1B-CHA-C4A
29	WL	201	PEB	C2D-C3D-CAD-CBD
29	WL	201	PEB	C4D-C3D-CAD-CBD
29	WL	201	PEB	C4A-C3A-CAA-CBA
29	WL	201	PEB	NB-C1B-CHA-C4A
29	WL	201	PEB	C2B-C1B-CHA-C4A
29	WL	202	PEB	C4A-C3A-CAA-CBA
29	WL	202	PEB	NB-C1B-CHA-C4A
29	WL	202	PEB	C2B-C1B-CHA-C4A
29	WL	203	PEB	NC-C1C-CHB-C4B
29	WL	203	PEB	C2C-C1C-CHB-C4B
29	WL	203	PEB	C2C-CAC-CBC-CGC
29	WL	203	PEB	C2A-C3A-CAA-CBA
29	WL	203	PEB	NB-C1B-CHA-C4A
29	WL	203	PEB	C2B-C1B-CHA-C4A
29	XL	201	PEB	NB-C1B-CHA-C4A
29	XL	201	PEB	C2B-C1B-CHA-C4A
29	XL	202	PEB	C2D-C3D-CAD-CBD
29	XL	202	PEB	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	XL	202	PEB	C4A-C3A-CAA-CBA
29	XL	202	PEB	NB-C1B-CHA-C4A
29	XL	202	PEB	C2B-C1B-CHA-C4A
29	XL	203	PEB	ND-C1D-CHC-C4C
29	XL	203	PEB	C2D-C1D-CHC-C4C
29	XL	203	PEB	NC-C1C-CHB-C4B
29	XL	203	PEB	C2C-C1C-CHB-C4B
29	XL	203	PEB	C2A-C3A-CAA-CBA
29	XL	203	PEB	C4A-C3A-CAA-CBA
29	XL	203	PEB	NB-C1B-CHA-C4A
29	XL	203	PEB	C2B-C1B-CHA-C4A
29	YL	201	PEB	C4A-C3A-CAA-CBA
29	YL	201	PEB	NB-C1B-CHA-C4A
29	YL	201	PEB	C2B-C1B-CHA-C4A
29	YL	202	PEB	NC-C1C-CHB-C4B
29	YL	202	PEB	C2C-C1C-CHB-C4B
29	YL	202	PEB	C2C-CAC-CBC-CGC
29	YL	202	PEB	C2A-C3A-CAA-CBA
29	YL	202	PEB	NB-C1B-CHA-C4A
29	YL	202	PEB	C2B-C1B-CHA-C4A
29	ZL	201	PEB	NB-C1B-CHA-C4A
29	ZL	201	PEB	C2B-C1B-CHA-C4A
29	ZL	202	PEB	C2D-C3D-CAD-CBD
29	ZL	202	PEB	C4D-C3D-CAD-CBD
29	ZL	202	PEB	C4A-C3A-CAA-CBA
29	ZL	202	PEB	NB-C1B-CHA-C4A
29	ZL	202	PEB	C2B-C1B-CHA-C4A
29	ZL	203	PEB	ND-C1D-CHC-C4C
29	ZL	203	PEB	C2D-C1D-CHC-C4C
29	ZL	203	PEB	NC-C1C-CHB-C4B
29	ZL	203	PEB	C2C-C1C-CHB-C4B
29	ZL	203	PEB	C2A-C3A-CAA-CBA
29	ZL	203	PEB	C4A-C3A-CAA-CBA
29	ZL	203	PEB	NB-C1B-CHA-C4A
29	ZL	203	PEB	C2B-C1B-CHA-C4A
29	aL	201	PEB	C4A-C3A-CAA-CBA
29	aL	201	PEB	NB-C1B-CHA-C4A
29	aL	201	PEB	C2B-C1B-CHA-C4A
29	aL	202	PEB	NC-C1C-CHB-C4B
29	aL	202	PEB	C2C-C1C-CHB-C4B
29	aL	202	PEB	C2C-CAC-CBC-CGC
29	aL	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	aL	202	PEB	NB-C1B-CHA-C4A
29	aL	202	PEB	C2B-C1B-CHA-C4A
29	bL	201	PEB	NB-C1B-CHA-C4A
29	bL	201	PEB	C2B-C1B-CHA-C4A
29	bL	202	PEB	C2D-C3D-CAD-CBD
29	bL	202	PEB	C4D-C3D-CAD-CBD
29	bL	202	PEB	C4A-C3A-CAA-CBA
29	bL	202	PEB	NB-C1B-CHA-C4A
29	bL	202	PEB	C2B-C1B-CHA-C4A
29	bL	203	PEB	ND-C1D-CHC-C4C
29	bL	203	PEB	C2D-C1D-CHC-C4C
29	bL	203	PEB	NC-C1C-CHB-C4B
29	bL	203	PEB	C2C-C1C-CHB-C4B
29	bL	203	PEB	C2A-C3A-CAA-CBA
29	bL	203	PEB	C4A-C3A-CAA-CBA
29	bL	203	PEB	NB-C1B-CHA-C4A
29	bL	203	PEB	C2B-C1B-CHA-C4A
29	cL	201	PEB	C4A-C3A-CAA-CBA
29	cL	201	PEB	NB-C1B-CHA-C4A
29	cL	201	PEB	C2B-C1B-CHA-C4A
29	cL	202	PEB	NC-C1C-CHB-C4B
29	cL	202	PEB	C2C-C1C-CHB-C4B
29	cL	202	PEB	C2C-CAC-CBC-CGC
29	cL	202	PEB	C2A-C3A-CAA-CBA
29	cL	202	PEB	NB-C1B-CHA-C4A
29	cL	202	PEB	C2B-C1B-CHA-C4A
29	dL	201	PEB	NB-C1B-CHA-C4A
29	dL	201	PEB	C2B-C1B-CHA-C4A
29	dL	202	PEB	C2D-C3D-CAD-CBD
29	dL	202	PEB	C4D-C3D-CAD-CBD
29	dL	202	PEB	C4A-C3A-CAA-CBA
29	dL	202	PEB	NB-C1B-CHA-C4A
29	dL	202	PEB	C2B-C1B-CHA-C4A
29	dL	203	PEB	ND-C1D-CHC-C4C
29	dL	203	PEB	C2D-C1D-CHC-C4C
29	dL	203	PEB	NC-C1C-CHB-C4B
29	dL	203	PEB	C2C-C1C-CHB-C4B
29	dL	203	PEB	C2A-C3A-CAA-CBA
29	dL	203	PEB	C4A-C3A-CAA-CBA
29	dL	203	PEB	NB-C1B-CHA-C4A
29	dL	203	PEB	C2B-C1B-CHA-C4A
29	eL	201	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	eL	201	PEB	NB-C1B-CHA-C4A
29	eL	201	PEB	C2B-C1B-CHA-C4A
29	eL	202	PEB	NC-C1C-CHB-C4B
29	eL	202	PEB	C2C-C1C-CHB-C4B
29	eL	202	PEB	C2C-CAC-CBC-CGC
29	eL	202	PEB	C2A-C3A-CAA-CBA
29	eL	202	PEB	NB-C1B-CHA-C4A
29	eL	202	PEB	C2B-C1B-CHA-C4A
29	fL	201	PEB	NB-C1B-CHA-C4A
29	fL	201	PEB	C2B-C1B-CHA-C4A
29	fL	202	PEB	C2D-C3D-CAD-CBD
29	fL	202	PEB	C4D-C3D-CAD-CBD
29	fL	202	PEB	C4A-C3A-CAA-CBA
29	fL	202	PEB	NB-C1B-CHA-C4A
29	fL	202	PEB	C2B-C1B-CHA-C4A
29	fL	203	PEB	ND-C1D-CHC-C4C
29	fL	203	PEB	C2D-C1D-CHC-C4C
29	fL	203	PEB	NC-C1C-CHB-C4B
29	fL	203	PEB	C2C-C1C-CHB-C4B
29	fL	203	PEB	C2A-C3A-CAA-CBA
29	fL	203	PEB	C4A-C3A-CAA-CBA
29	fL	203	PEB	NB-C1B-CHA-C4A
29	fL	203	PEB	C2B-C1B-CHA-C4A
29	gL	201	PEB	C4A-C3A-CAA-CBA
29	gL	201	PEB	NB-C1B-CHA-C4A
29	gL	201	PEB	C2B-C1B-CHA-C4A
29	gL	202	PEB	NC-C1C-CHB-C4B
29	gL	202	PEB	C2C-C1C-CHB-C4B
29	gL	202	PEB	C2C-CAC-CBC-CGC
29	gL	202	PEB	C2A-C3A-CAA-CBA
29	gL	202	PEB	NB-C1B-CHA-C4A
29	gL	202	PEB	C2B-C1B-CHA-C4A
29	hL	201	PEB	NB-C1B-CHA-C4A
29	hL	201	PEB	C2B-C1B-CHA-C4A
29	hL	202	PEB	C2D-C3D-CAD-CBD
29	hL	202	PEB	C4D-C3D-CAD-CBD
29	hL	202	PEB	C4A-C3A-CAA-CBA
29	hL	202	PEB	NB-C1B-CHA-C4A
29	hL	202	PEB	C2B-C1B-CHA-C4A
29	hL	203	PEB	ND-C1D-CHC-C4C
29	hL	203	PEB	C2D-C1D-CHC-C4C
29	hL	203	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	hL	203	PEB	C2C-C1C-CHB-C4B
29	hL	203	PEB	C2A-C3A-CAA-CBA
29	hL	203	PEB	C4A-C3A-CAA-CBA
29	hL	203	PEB	NB-C1B-CHA-C4A
29	hL	203	PEB	C2B-C1B-CHA-C4A
29	iL	201	PEB	C4A-C3A-CAA-CBA
29	iL	201	PEB	NB-C1B-CHA-C4A
29	iL	201	PEB	C2B-C1B-CHA-C4A
29	iL	202	PEB	NC-C1C-CHB-C4B
29	iL	202	PEB	C2C-C1C-CHB-C4B
29	iL	202	PEB	C2C-CAC-CBC-CGC
29	iL	202	PEB	C2A-C3A-CAA-CBA
29	iL	202	PEB	NB-C1B-CHA-C4A
29	iL	202	PEB	C2B-C1B-CHA-C4A
29	jL	201	PEB	NB-C1B-CHA-C4A
29	jL	201	PEB	C2B-C1B-CHA-C4A
29	jL	202	PEB	C2D-C3D-CAD-CBD
29	jL	202	PEB	C4D-C3D-CAD-CBD
29	jL	202	PEB	C4A-C3A-CAA-CBA
29	jL	202	PEB	NB-C1B-CHA-C4A
29	jL	202	PEB	C2B-C1B-CHA-C4A
29	jL	203	PEB	ND-C1D-CHC-C4C
29	jL	203	PEB	C2D-C1D-CHC-C4C
29	jL	203	PEB	NC-C1C-CHB-C4B
29	jL	203	PEB	C2C-C1C-CHB-C4B
29	jL	203	PEB	C2A-C3A-CAA-CBA
29	jL	203	PEB	C4A-C3A-CAA-CBA
29	jL	203	PEB	NB-C1B-CHA-C4A
29	jL	203	PEB	C2B-C1B-CHA-C4A
29	kL	201	PEB	C4A-C3A-CAA-CBA
29	kL	201	PEB	NB-C1B-CHA-C4A
29	kL	201	PEB	C2B-C1B-CHA-C4A
29	kL	202	PEB	NC-C1C-CHB-C4B
29	kL	202	PEB	C2C-C1C-CHB-C4B
29	kL	202	PEB	C2C-CAC-CBC-CGC
29	kL	202	PEB	C2A-C3A-CAA-CBA
29	kL	202	PEB	NB-C1B-CHA-C4A
29	kL	202	PEB	C2B-C1B-CHA-C4A
29	lL	201	PEB	NB-C1B-CHA-C4A
29	lL	201	PEB	C2B-C1B-CHA-C4A
29	lL	202	PEB	C2D-C3D-CAD-CBD
29	lL	202	PEB	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	lL	202	PEB	C4A-C3A-CAA-CBA
29	lL	202	PEB	NB-C1B-CHA-C4A
29	lL	202	PEB	C2B-C1B-CHA-C4A
29	lL	203	PEB	ND-C1D-CHC-C4C
29	lL	203	PEB	C2D-C1D-CHC-C4C
29	lL	203	PEB	NC-C1C-CHB-C4B
29	lL	203	PEB	C2C-C1C-CHB-C4B
29	lL	203	PEB	C2A-C3A-CAA-CBA
29	lL	203	PEB	C4A-C3A-CAA-CBA
29	lL	203	PEB	NB-C1B-CHA-C4A
29	lL	203	PEB	C2B-C1B-CHA-C4A
29	mL	201	PEB	C4A-C3A-CAA-CBA
29	mL	201	PEB	NB-C1B-CHA-C4A
29	mL	201	PEB	C2B-C1B-CHA-C4A
29	mL	202	PEB	NC-C1C-CHB-C4B
29	mL	202	PEB	C2C-C1C-CHB-C4B
29	mL	202	PEB	C2C-CAC-CBC-CGC
29	mL	202	PEB	C2A-C3A-CAA-CBA
29	mL	202	PEB	NB-C1B-CHA-C4A
29	mL	202	PEB	C2B-C1B-CHA-C4A
29	nL	201	PEB	NB-C1B-CHA-C4A
29	nL	201	PEB	C2B-C1B-CHA-C4A
29	nL	202	PEB	C2D-C3D-CAD-CBD
29	nL	202	PEB	C4D-C3D-CAD-CBD
29	nL	202	PEB	C4A-C3A-CAA-CBA
29	nL	202	PEB	NB-C1B-CHA-C4A
29	nL	202	PEB	C2B-C1B-CHA-C4A
29	nL	203	PEB	ND-C1D-CHC-C4C
29	nL	203	PEB	C2D-C1D-CHC-C4C
29	nL	203	PEB	NC-C1C-CHB-C4B
29	nL	203	PEB	C2C-C1C-CHB-C4B
29	nL	203	PEB	C2A-C3A-CAA-CBA
29	nL	203	PEB	C4A-C3A-CAA-CBA
29	nL	203	PEB	NB-C1B-CHA-C4A
29	nL	203	PEB	C2B-C1B-CHA-C4A
29	oL	201	PEB	C4A-C3A-CAA-CBA
29	oL	201	PEB	NB-C1B-CHA-C4A
29	oL	201	PEB	C2B-C1B-CHA-C4A
29	oL	202	PEB	NC-C1C-CHB-C4B
29	oL	202	PEB	C2C-C1C-CHB-C4B
29	oL	202	PEB	C2C-CAC-CBC-CGC
29	oL	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	oL	202	PEB	NB-C1B-CHA-C4A
29	oL	202	PEB	C2B-C1B-CHA-C4A
29	pL	201	PEB	NB-C1B-CHA-C4A
29	pL	201	PEB	C2B-C1B-CHA-C4A
29	pL	202	PEB	C2D-C3D-CAD-CBD
29	pL	202	PEB	C4D-C3D-CAD-CBD
29	pL	202	PEB	C4A-C3A-CAA-CBA
29	pL	202	PEB	NB-C1B-CHA-C4A
29	pL	202	PEB	C2B-C1B-CHA-C4A
29	pL	203	PEB	ND-C1D-CHC-C4C
29	pL	203	PEB	C2D-C1D-CHC-C4C
29	pL	203	PEB	NC-C1C-CHB-C4B
29	pL	203	PEB	C2C-C1C-CHB-C4B
29	pL	203	PEB	C2A-C3A-CAA-CBA
29	pL	203	PEB	C4A-C3A-CAA-CBA
29	pL	203	PEB	NB-C1B-CHA-C4A
29	pL	203	PEB	C2B-C1B-CHA-C4A
29	qL	201	PEB	C4A-C3A-CAA-CBA
29	qL	201	PEB	NB-C1B-CHA-C4A
29	qL	201	PEB	C2B-C1B-CHA-C4A
29	qL	202	PEB	NC-C1C-CHB-C4B
29	qL	202	PEB	C2C-C1C-CHB-C4B
29	qL	202	PEB	C2C-CAC-CBC-CGC
29	qL	202	PEB	C2A-C3A-CAA-CBA
29	qL	202	PEB	NB-C1B-CHA-C4A
29	qL	202	PEB	C2B-C1B-CHA-C4A
29	rL	201	PEB	NB-C1B-CHA-C4A
29	rL	201	PEB	C2B-C1B-CHA-C4A
29	rL	202	PEB	C2D-C3D-CAD-CBD
29	rL	202	PEB	C4D-C3D-CAD-CBD
29	rL	202	PEB	C4A-C3A-CAA-CBA
29	rL	202	PEB	NB-C1B-CHA-C4A
29	rL	202	PEB	C2B-C1B-CHA-C4A
29	rL	203	PEB	ND-C1D-CHC-C4C
29	rL	203	PEB	C2D-C1D-CHC-C4C
29	rL	203	PEB	NC-C1C-CHB-C4B
29	rL	203	PEB	C2C-C1C-CHB-C4B
29	rL	203	PEB	C2A-C3A-CAA-CBA
29	rL	203	PEB	C4A-C3A-CAA-CBA
29	rL	203	PEB	NB-C1B-CHA-C4A
29	rL	203	PEB	C2B-C1B-CHA-C4A
29	sL	201	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	sL	201	PEB	NB-C1B-CHA-C4A
29	sL	201	PEB	C2B-C1B-CHA-C4A
29	sL	202	PEB	NC-C1C-CHB-C4B
29	sL	202	PEB	C2C-C1C-CHB-C4B
29	sL	202	PEB	C2C-CAC-CBC-CGC
29	sL	202	PEB	C2A-C3A-CAA-CBA
29	sL	202	PEB	NB-C1B-CHA-C4A
29	sL	202	PEB	C2B-C1B-CHA-C4A
29	sL	203	PEB	C2D-C3D-CAD-CBD
29	sL	203	PEB	C4D-C3D-CAD-CBD
29	sL	203	PEB	C4A-C3A-CAA-CBA
29	sL	203	PEB	NB-C1B-CHA-C4A
29	sL	203	PEB	C2B-C1B-CHA-C4A
29	tL	201	PEB	NB-C1B-CHA-C4A
29	tL	201	PEB	C2B-C1B-CHA-C4A
29	tL	202	PEB	ND-C1D-CHC-C4C
29	tL	202	PEB	C2D-C1D-CHC-C4C
29	tL	202	PEB	NC-C1C-CHB-C4B
29	tL	202	PEB	C2C-C1C-CHB-C4B
29	tL	202	PEB	C2A-C3A-CAA-CBA
29	tL	202	PEB	C4A-C3A-CAA-CBA
29	tL	202	PEB	NB-C1B-CHA-C4A
29	tL	202	PEB	C2B-C1B-CHA-C4A
29	uL	201	PEB	C2D-C3D-CAD-CBD
29	uL	201	PEB	C4D-C3D-CAD-CBD
29	uL	201	PEB	C4A-C3A-CAA-CBA
29	uL	201	PEB	NB-C1B-CHA-C4A
29	uL	201	PEB	C2B-C1B-CHA-C4A
29	uL	202	PEB	C4A-C3A-CAA-CBA
29	uL	202	PEB	NB-C1B-CHA-C4A
29	uL	202	PEB	C2B-C1B-CHA-C4A
29	uL	203	PEB	NC-C1C-CHB-C4B
29	uL	203	PEB	C2C-C1C-CHB-C4B
29	uL	203	PEB	C2C-CAC-CBC-CGC
29	uL	203	PEB	C2A-C3A-CAA-CBA
29	uL	203	PEB	NB-C1B-CHA-C4A
29	uL	203	PEB	C2B-C1B-CHA-C4A
29	vL	201	PEB	NB-C1B-CHA-C4A
29	vL	201	PEB	C2B-C1B-CHA-C4A
29	vL	202	PEB	ND-C1D-CHC-C4C
29	vL	202	PEB	C2D-C1D-CHC-C4C
29	vL	202	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	vL	202	PEB	C2C-C1C-CHB-C4B
29	vL	202	PEB	C2A-C3A-CAA-CBA
29	vL	202	PEB	C4A-C3A-CAA-CBA
29	vL	202	PEB	NB-C1B-CHA-C4A
29	vL	202	PEB	C2B-C1B-CHA-C4A
29	wL	301	PEB	ND-C1D-CHC-C4C
29	wL	301	PEB	C2C-CAC-CBC-CGC
29	wL	301	PEB	C2A-C3A-CAA-CBA
29	wL	301	PEB	C4A-C3A-CAA-CBA
29	wL	301	PEB	NB-C1B-CHA-C4A
29	wL	301	PEB	C2B-C1B-CHA-C4A
29	wL	302	PEB	NB-C1B-CHA-C4A
29	wL	302	PEB	C2B-C1B-CHA-C4A
29	wL	303	PEB	NC-C1C-CHB-C4B
29	wL	303	PEB	C2C-C1C-CHB-C4B
29	wL	303	PEB	C2C-CAC-CBC-CGC
29	wL	303	PEB	C2A-C3A-CAA-CBA
29	wL	303	PEB	C4A-C3A-CAA-CBA
29	wL	303	PEB	NB-C1B-CHA-C4A
29	wL	303	PEB	C2B-C1B-CHA-C4A
29	wL	303	PEB	C4B-C3B-CAB-CBB
29	xL	301	PEB	ND-C1D-CHC-C4C
29	xL	301	PEB	C2C-CAC-CBC-CGC
29	xL	301	PEB	C2A-C3A-CAA-CBA
29	xL	301	PEB	C4A-C3A-CAA-CBA
29	xL	301	PEB	NB-C1B-CHA-C4A
29	xL	301	PEB	C2B-C1B-CHA-C4A
29	xL	302	PEB	NB-C1B-CHA-C4A
29	xL	302	PEB	C2B-C1B-CHA-C4A
29	xL	303	PEB	NC-C1C-CHB-C4B
29	xL	303	PEB	C2C-C1C-CHB-C4B
29	xL	303	PEB	C2C-CAC-CBC-CGC
29	xL	303	PEB	C2A-C3A-CAA-CBA
29	xL	303	PEB	C4A-C3A-CAA-CBA
29	xL	303	PEB	NB-C1B-CHA-C4A
29	xL	303	PEB	C2B-C1B-CHA-C4A
29	xL	303	PEB	C4B-C3B-CAB-CBB
29	yL	301	PEB	C2A-C3A-CAA-CBA
29	yL	301	PEB	C4A-C3A-CAA-CBA
29	yL	301	PEB	NB-C1B-CHA-C4A
29	yL	301	PEB	C2B-C1B-CHA-C4A
29	zL	501	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	zL	501	PEB	NB-C1B-CHA-C4A
29	zL	501	PEB	C2B-C1B-CHA-C4A
29	AM	301	PEB	ND-C1D-CHC-C4C
29	AM	301	PEB	C2D-C1D-CHC-C4C
29	AM	301	PEB	NB-C1B-CHA-C4A
29	AM	301	PEB	C2B-C1B-CHA-C4A
29	AM	302	PEB	C2A-C3A-CAA-CBA
29	AM	302	PEB	C4A-C3A-CAA-CBA
29	AM	302	PEB	NB-C1B-CHA-C4A
29	AM	302	PEB	C2B-C1B-CHA-C4A
29	AM	303	PEB	NC-C1C-CHB-C4B
29	AM	303	PEB	C2C-C1C-CHB-C4B
29	AM	303	PEB	C4A-C3A-CAA-CBA
29	AM	303	PEB	NB-C1B-CHA-C4A
29	AM	303	PEB	C2B-C1B-CHA-C4A
29	BM	301	PEB	NC-C1C-CHB-C4B
29	BM	301	PEB	C1C-C2C-CAC-CBC
29	BM	301	PEB	C3C-C2C-CAC-CBC
29	BM	301	PEB	C4A-C3A-CAA-CBA
29	BM	301	PEB	NB-C1B-CHA-C4A
29	BM	301	PEB	C2B-C1B-CHA-C4A
29	CM	201	PEB	NB-C1B-CHA-C4A
29	CM	201	PEB	C2B-C1B-CHA-C4A
29	CM	202	PEB	NC-C1C-CHB-C4B
29	CM	202	PEB	C2C-C1C-CHB-C4B
29	CM	202	PEB	NB-C1B-CHA-C4A
29	CM	202	PEB	C2B-C1B-CHA-C4A
29	DM	201	PEB	ND-C1D-CHC-C4C
29	DM	201	PEB	C2D-C1D-CHC-C4C
29	DM	201	PEB	NB-C1B-CHA-C4A
29	DM	201	PEB	C2B-C1B-CHA-C4A
29	DM	202	PEB	C4A-C3A-CAA-CBA
29	DM	202	PEB	NB-C1B-CHA-C4A
29	DM	202	PEB	C2B-C1B-CHA-C4A
29	DM	203	PEB	ND-C1D-CHC-C4C
29	DM	203	PEB	C2D-C1D-CHC-C4C
29	DM	203	PEB	NC-C1C-CHB-C4B
29	DM	203	PEB	C2C-C1C-CHB-C4B
29	DM	203	PEB	C2A-C3A-CAA-CBA
29	DM	203	PEB	C4A-C3A-CAA-CBA
29	DM	203	PEB	NB-C1B-CHA-C4A
29	DM	203	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	EM	201	PEB	NB-C1B-CHA-C4A
29	EM	201	PEB	C2B-C1B-CHA-C4A
29	EM	202	PEB	NC-C1C-CHB-C4B
29	EM	202	PEB	C2C-C1C-CHB-C4B
29	EM	202	PEB	NB-C1B-CHA-C4A
29	EM	202	PEB	C2B-C1B-CHA-C4A
29	FM	201	PEB	ND-C1D-CHC-C4C
29	FM	201	PEB	C2D-C1D-CHC-C4C
29	FM	201	PEB	NB-C1B-CHA-C4A
29	FM	201	PEB	C2B-C1B-CHA-C4A
29	FM	202	PEB	C4A-C3A-CAA-CBA
29	FM	202	PEB	NB-C1B-CHA-C4A
29	FM	202	PEB	C2B-C1B-CHA-C4A
29	FM	203	PEB	ND-C1D-CHC-C4C
29	FM	203	PEB	C2D-C1D-CHC-C4C
29	FM	203	PEB	NC-C1C-CHB-C4B
29	FM	203	PEB	C2C-C1C-CHB-C4B
29	FM	203	PEB	C2A-C3A-CAA-CBA
29	FM	203	PEB	C4A-C3A-CAA-CBA
29	FM	203	PEB	NB-C1B-CHA-C4A
29	FM	203	PEB	C2B-C1B-CHA-C4A
29	GM	201	PEB	NB-C1B-CHA-C4A
29	GM	201	PEB	C2B-C1B-CHA-C4A
29	GM	202	PEB	NC-C1C-CHB-C4B
29	GM	202	PEB	C2C-C1C-CHB-C4B
29	GM	202	PEB	NB-C1B-CHA-C4A
29	GM	202	PEB	C2B-C1B-CHA-C4A
29	HM	201	PEB	ND-C1D-CHC-C4C
29	HM	201	PEB	C2D-C1D-CHC-C4C
29	HM	201	PEB	NB-C1B-CHA-C4A
29	HM	201	PEB	C2B-C1B-CHA-C4A
29	HM	202	PEB	C4A-C3A-CAA-CBA
29	HM	202	PEB	NB-C1B-CHA-C4A
29	HM	202	PEB	C2B-C1B-CHA-C4A
29	HM	203	PEB	ND-C1D-CHC-C4C
29	HM	203	PEB	C2D-C1D-CHC-C4C
29	HM	203	PEB	NC-C1C-CHB-C4B
29	HM	203	PEB	C2C-C1C-CHB-C4B
29	HM	203	PEB	C2A-C3A-CAA-CBA
29	HM	203	PEB	C4A-C3A-CAA-CBA
29	HM	203	PEB	NB-C1B-CHA-C4A
29	HM	203	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	IM	201	PEB	NB-C1B-CHA-C4A
29	IM	201	PEB	C2B-C1B-CHA-C4A
29	IM	202	PEB	NC-C1C-CHB-C4B
29	IM	202	PEB	C2C-C1C-CHB-C4B
29	IM	202	PEB	NB-C1B-CHA-C4A
29	IM	202	PEB	C2B-C1B-CHA-C4A
29	JM	201	PEB	ND-C1D-CHC-C4C
29	JM	201	PEB	C2D-C1D-CHC-C4C
29	JM	201	PEB	NB-C1B-CHA-C4A
29	JM	201	PEB	C2B-C1B-CHA-C4A
29	JM	202	PEB	C4A-C3A-CAA-CBA
29	JM	202	PEB	NB-C1B-CHA-C4A
29	JM	202	PEB	C2B-C1B-CHA-C4A
29	JM	203	PEB	ND-C1D-CHC-C4C
29	JM	203	PEB	C2D-C1D-CHC-C4C
29	JM	203	PEB	NC-C1C-CHB-C4B
29	JM	203	PEB	C2C-C1C-CHB-C4B
29	JM	203	PEB	C2A-C3A-CAA-CBA
29	JM	203	PEB	C4A-C3A-CAA-CBA
29	JM	203	PEB	NB-C1B-CHA-C4A
29	JM	203	PEB	C2B-C1B-CHA-C4A
29	KM	201	PEB	NB-C1B-CHA-C4A
29	KM	201	PEB	C2B-C1B-CHA-C4A
29	KM	202	PEB	NC-C1C-CHB-C4B
29	KM	202	PEB	C2C-C1C-CHB-C4B
29	KM	202	PEB	NB-C1B-CHA-C4A
29	KM	202	PEB	C2B-C1B-CHA-C4A
29	KM	203	PEB	C4A-C3A-CAA-CBA
29	KM	203	PEB	NB-C1B-CHA-C4A
29	KM	203	PEB	C2B-C1B-CHA-C4A
29	LM	201	PEB	ND-C1D-CHC-C4C
29	LM	201	PEB	C2D-C1D-CHC-C4C
29	LM	201	PEB	NB-C1B-CHA-C4A
29	LM	201	PEB	C2B-C1B-CHA-C4A
29	LM	202	PEB	C4A-C3A-CAA-CBA
29	LM	202	PEB	NB-C1B-CHA-C4A
29	LM	202	PEB	C2B-C1B-CHA-C4A
29	LM	203	PEB	ND-C1D-CHC-C4C
29	LM	203	PEB	C2D-C1D-CHC-C4C
29	LM	203	PEB	NC-C1C-CHB-C4B
29	LM	203	PEB	C2C-C1C-CHB-C4B
29	LM	203	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	LM	203	PEB	C4A-C3A-CAA-CBA
29	LM	203	PEB	NB-C1B-CHA-C4A
29	LM	203	PEB	C2B-C1B-CHA-C4A
29	MM	201	PEB	NB-C1B-CHA-C4A
29	MM	201	PEB	C2B-C1B-CHA-C4A
29	MM	202	PEB	NC-C1C-CHB-C4B
29	MM	202	PEB	C2C-C1C-CHB-C4B
29	MM	202	PEB	NB-C1B-CHA-C4A
29	MM	202	PEB	C2B-C1B-CHA-C4A
29	NM	201	PEB	ND-C1D-CHC-C4C
29	NM	201	PEB	C2D-C1D-CHC-C4C
29	NM	201	PEB	NB-C1B-CHA-C4A
29	NM	201	PEB	C2B-C1B-CHA-C4A
29	NM	202	PEB	ND-C1D-CHC-C4C
29	NM	202	PEB	C2D-C1D-CHC-C4C
29	NM	202	PEB	NC-C1C-CHB-C4B
29	NM	202	PEB	C2C-C1C-CHB-C4B
29	NM	202	PEB	C2A-C3A-CAA-CBA
29	NM	202	PEB	C4A-C3A-CAA-CBA
29	NM	202	PEB	NB-C1B-CHA-C4A
29	NM	202	PEB	C2B-C1B-CHA-C4A
29	OM	201	PEB	NB-C1B-CHA-C4A
29	OM	201	PEB	C2B-C1B-CHA-C4A
29	OM	202	PEB	NC-C1C-CHB-C4B
29	OM	202	PEB	C2C-C1C-CHB-C4B
29	OM	202	PEB	NB-C1B-CHA-C4A
29	OM	202	PEB	C2B-C1B-CHA-C4A
29	PM	201	PEB	ND-C1D-CHC-C4C
29	PM	201	PEB	C2D-C1D-CHC-C4C
29	PM	201	PEB	NB-C1B-CHA-C4A
29	PM	201	PEB	C2B-C1B-CHA-C4A
29	PM	202	PEB	ND-C1D-CHC-C4C
29	PM	202	PEB	C2D-C1D-CHC-C4C
29	PM	202	PEB	NC-C1C-CHB-C4B
29	PM	202	PEB	C2C-C1C-CHB-C4B
29	PM	202	PEB	C2A-C3A-CAA-CBA
29	PM	202	PEB	C4A-C3A-CAA-CBA
29	PM	202	PEB	NB-C1B-CHA-C4A
29	PM	202	PEB	C2B-C1B-CHA-C4A
29	QM	202	PEB	C4A-C3A-CAA-CBA
29	QM	202	PEB	NB-C1B-CHA-C4A
29	QM	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	QM	203	PEB	NB-C1B-CHA-C4A
29	QM	203	PEB	C2B-C1B-CHA-C4A
29	QM	204	PEB	NC-C1C-CHB-C4B
29	QM	204	PEB	C2C-C1C-CHB-C4B
29	QM	204	PEB	NB-C1B-CHA-C4A
29	QM	204	PEB	C2B-C1B-CHA-C4A
29	RM	201	PEB	ND-C1D-CHC-C4C
29	RM	201	PEB	C2D-C1D-CHC-C4C
29	RM	201	PEB	NB-C1B-CHA-C4A
29	RM	201	PEB	C2B-C1B-CHA-C4A
29	RM	202	PEB	C4A-C3A-CAA-CBA
29	RM	202	PEB	NB-C1B-CHA-C4A
29	RM	202	PEB	C2B-C1B-CHA-C4A
29	RM	203	PEB	ND-C1D-CHC-C4C
29	RM	203	PEB	C2D-C1D-CHC-C4C
29	RM	203	PEB	NC-C1C-CHB-C4B
29	RM	203	PEB	C2C-C1C-CHB-C4B
29	RM	203	PEB	C2A-C3A-CAA-CBA
29	RM	203	PEB	C4A-C3A-CAA-CBA
29	RM	203	PEB	NB-C1B-CHA-C4A
29	RM	203	PEB	C2B-C1B-CHA-C4A
29	SM	201	PEB	NB-C1B-CHA-C4A
29	SM	201	PEB	C2B-C1B-CHA-C4A
29	SM	202	PEB	NC-C1C-CHB-C4B
29	SM	202	PEB	C2C-C1C-CHB-C4B
29	SM	202	PEB	NB-C1B-CHA-C4A
29	SM	202	PEB	C2B-C1B-CHA-C4A
29	TM	201	PEB	ND-C1D-CHC-C4C
29	TM	201	PEB	C2D-C1D-CHC-C4C
29	TM	201	PEB	NB-C1B-CHA-C4A
29	TM	201	PEB	C2B-C1B-CHA-C4A
29	TM	202	PEB	C4A-C3A-CAA-CBA
29	TM	202	PEB	NB-C1B-CHA-C4A
29	TM	202	PEB	C2B-C1B-CHA-C4A
29	TM	203	PEB	ND-C1D-CHC-C4C
29	TM	203	PEB	C2D-C1D-CHC-C4C
29	TM	203	PEB	NC-C1C-CHB-C4B
29	TM	203	PEB	C2C-C1C-CHB-C4B
29	TM	203	PEB	C2A-C3A-CAA-CBA
29	TM	203	PEB	C4A-C3A-CAA-CBA
29	TM	203	PEB	NB-C1B-CHA-C4A
29	TM	203	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	UM	201	PEB	NB-C1B-CHA-C4A
29	UM	201	PEB	C2B-C1B-CHA-C4A
29	VM	201	PEB	ND-C1D-CHC-C4C
29	VM	201	PEB	C2D-C1D-CHC-C4C
29	VM	201	PEB	NB-C1B-CHA-C4A
29	VM	201	PEB	C2B-C1B-CHA-C4A
29	VM	202	PEB	C4A-C3A-CAA-CBA
29	VM	202	PEB	NB-C1B-CHA-C4A
29	VM	202	PEB	C2B-C1B-CHA-C4A
29	VM	203	PEB	ND-C1D-CHC-C4C
29	VM	203	PEB	C2D-C1D-CHC-C4C
29	VM	203	PEB	NC-C1C-CHB-C4B
29	VM	203	PEB	C2C-C1C-CHB-C4B
29	VM	203	PEB	C2A-C3A-CAA-CBA
29	VM	203	PEB	C4A-C3A-CAA-CBA
29	VM	203	PEB	NB-C1B-CHA-C4A
29	VM	203	PEB	C2B-C1B-CHA-C4A
29	WM	201	PEB	NB-C1B-CHA-C4A
29	WM	201	PEB	C2B-C1B-CHA-C4A
29	WM	202	PEB	NC-C1C-CHB-C4B
29	WM	202	PEB	C2C-C1C-CHB-C4B
29	WM	202	PEB	NB-C1B-CHA-C4A
29	WM	202	PEB	C2B-C1B-CHA-C4A
29	XM	201	PEB	ND-C1D-CHC-C4C
29	XM	201	PEB	C2D-C1D-CHC-C4C
29	XM	201	PEB	NB-C1B-CHA-C4A
29	XM	201	PEB	C2B-C1B-CHA-C4A
29	XM	202	PEB	ND-C1D-CHC-C4C
29	XM	202	PEB	C2D-C1D-CHC-C4C
29	XM	202	PEB	NC-C1C-CHB-C4B
29	XM	202	PEB	C2C-C1C-CHB-C4B
29	XM	202	PEB	C2A-C3A-CAA-CBA
29	XM	202	PEB	C4A-C3A-CAA-CBA
29	XM	202	PEB	NB-C1B-CHA-C4A
29	XM	202	PEB	C2B-C1B-CHA-C4A
29	YM	201	PEB	C4A-C3A-CAA-CBA
29	YM	201	PEB	NB-C1B-CHA-C4A
29	YM	201	PEB	C2B-C1B-CHA-C4A
29	YM	202	PEB	NB-C1B-CHA-C4A
29	YM	202	PEB	C2B-C1B-CHA-C4A
29	YM	203	PEB	NC-C1C-CHB-C4B
29	YM	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	YM	203	PEB	NB-C1B-CHA-C4A
29	YM	203	PEB	C2B-C1B-CHA-C4A
29	ZM	201	PEB	ND-C1D-CHC-C4C
29	ZM	201	PEB	C2D-C1D-CHC-C4C
29	ZM	201	PEB	NB-C1B-CHA-C4A
29	ZM	201	PEB	C2B-C1B-CHA-C4A
29	ZM	202	PEB	C4A-C3A-CAA-CBA
29	ZM	202	PEB	NB-C1B-CHA-C4A
29	ZM	202	PEB	C2B-C1B-CHA-C4A
29	ZM	203	PEB	ND-C1D-CHC-C4C
29	ZM	203	PEB	C2D-C1D-CHC-C4C
29	ZM	203	PEB	NC-C1C-CHB-C4B
29	ZM	203	PEB	C2C-C1C-CHB-C4B
29	ZM	203	PEB	C2A-C3A-CAA-CBA
29	ZM	203	PEB	C4A-C3A-CAA-CBA
29	ZM	203	PEB	NB-C1B-CHA-C4A
29	ZM	203	PEB	C2B-C1B-CHA-C4A
29	aM	201	PEB	NB-C1B-CHA-C4A
29	aM	201	PEB	C2B-C1B-CHA-C4A
29	aM	202	PEB	NC-C1C-CHB-C4B
29	aM	202	PEB	C2C-C1C-CHB-C4B
29	aM	202	PEB	NB-C1B-CHA-C4A
29	aM	202	PEB	C2B-C1B-CHA-C4A
29	aM	203	PEB	C4A-C3A-CAA-CBA
29	aM	203	PEB	NB-C1B-CHA-C4A
29	aM	203	PEB	C2B-C1B-CHA-C4A
29	cM	201	PEB	ND-C1D-CHC-C4C
29	cM	201	PEB	C2D-C1D-CHC-C4C
29	cM	201	PEB	NB-C1B-CHA-C4A
29	cM	201	PEB	C2B-C1B-CHA-C4A
29	cM	202	PEB	C4A-C3A-CAA-CBA
29	cM	202	PEB	NB-C1B-CHA-C4A
29	cM	202	PEB	C2B-C1B-CHA-C4A
29	cM	203	PEB	ND-C1D-CHC-C4C
29	cM	203	PEB	C2D-C1D-CHC-C4C
29	cM	203	PEB	NC-C1C-CHB-C4B
29	cM	203	PEB	C2C-C1C-CHB-C4B
29	cM	203	PEB	C2A-C3A-CAA-CBA
29	cM	203	PEB	C4A-C3A-CAA-CBA
29	cM	203	PEB	NB-C1B-CHA-C4A
29	cM	203	PEB	C2B-C1B-CHA-C4A
29	dM	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	dM	201	PEB	C2B-C1B-CHA-C4A
29	dM	202	PEB	NC-C1C-CHB-C4B
29	dM	202	PEB	C2C-C1C-CHB-C4B
29	dM	202	PEB	NB-C1B-CHA-C4A
29	dM	202	PEB	C2B-C1B-CHA-C4A
29	eM	201	PEB	ND-C1D-CHC-C4C
29	eM	201	PEB	C2D-C1D-CHC-C4C
29	eM	201	PEB	NB-C1B-CHA-C4A
29	eM	201	PEB	C2B-C1B-CHA-C4A
29	eM	202	PEB	ND-C1D-CHC-C4C
29	eM	202	PEB	C2D-C1D-CHC-C4C
29	eM	202	PEB	NC-C1C-CHB-C4B
29	eM	202	PEB	C2C-C1C-CHB-C4B
29	eM	202	PEB	C2A-C3A-CAA-CBA
29	eM	202	PEB	C4A-C3A-CAA-CBA
29	eM	202	PEB	NB-C1B-CHA-C4A
29	eM	202	PEB	C2B-C1B-CHA-C4A
29	fM	201	PEB	NB-C1B-CHA-C4A
29	fM	201	PEB	C2B-C1B-CHA-C4A
29	fM	202	PEB	NC-C1C-CHB-C4B
29	fM	202	PEB	C2C-C1C-CHB-C4B
29	fM	202	PEB	NB-C1B-CHA-C4A
29	fM	202	PEB	C2B-C1B-CHA-C4A
29	gM	201	PEB	ND-C1D-CHC-C4C
29	gM	201	PEB	C2D-C1D-CHC-C4C
29	gM	201	PEB	NB-C1B-CHA-C4A
29	gM	201	PEB	C2B-C1B-CHA-C4A
29	gM	202	PEB	C4A-C3A-CAA-CBA
29	gM	202	PEB	NB-C1B-CHA-C4A
29	gM	202	PEB	C2B-C1B-CHA-C4A
29	gM	203	PEB	ND-C1D-CHC-C4C
29	gM	203	PEB	C2D-C1D-CHC-C4C
29	gM	203	PEB	NC-C1C-CHB-C4B
29	gM	203	PEB	C2C-C1C-CHB-C4B
29	gM	203	PEB	C2A-C3A-CAA-CBA
29	gM	203	PEB	C4A-C3A-CAA-CBA
29	gM	203	PEB	NB-C1B-CHA-C4A
29	gM	203	PEB	C2B-C1B-CHA-C4A
29	hM	201	PEB	NB-C1B-CHA-C4A
29	hM	201	PEB	C2B-C1B-CHA-C4A
29	hM	202	PEB	NC-C1C-CHB-C4B
29	hM	202	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	hM	202	PEB	NB-C1B-CHA-C4A
29	hM	202	PEB	C2B-C1B-CHA-C4A
29	iM	201	PEB	ND-C1D-CHC-C4C
29	iM	201	PEB	C2D-C1D-CHC-C4C
29	iM	201	PEB	NB-C1B-CHA-C4A
29	iM	201	PEB	C2B-C1B-CHA-C4A
29	iM	202	PEB	C4A-C3A-CAA-CBA
29	iM	202	PEB	NB-C1B-CHA-C4A
29	iM	202	PEB	C2B-C1B-CHA-C4A
29	iM	203	PEB	ND-C1D-CHC-C4C
29	iM	203	PEB	C2D-C1D-CHC-C4C
29	iM	203	PEB	NC-C1C-CHB-C4B
29	iM	203	PEB	C2C-C1C-CHB-C4B
29	iM	203	PEB	C2A-C3A-CAA-CBA
29	iM	203	PEB	C4A-C3A-CAA-CBA
29	iM	203	PEB	NB-C1B-CHA-C4A
29	iM	203	PEB	C2B-C1B-CHA-C4A
29	jM	201	PEB	NB-C1B-CHA-C4A
29	jM	201	PEB	C2B-C1B-CHA-C4A
29	jM	202	PEB	NC-C1C-CHB-C4B
29	jM	202	PEB	C2C-C1C-CHB-C4B
29	jM	202	PEB	NB-C1B-CHA-C4A
29	jM	202	PEB	C2B-C1B-CHA-C4A
29	kM	201	PEB	ND-C1D-CHC-C4C
29	kM	201	PEB	C2D-C1D-CHC-C4C
29	kM	201	PEB	NB-C1B-CHA-C4A
29	kM	201	PEB	C2B-C1B-CHA-C4A
29	kM	202	PEB	C4A-C3A-CAA-CBA
29	kM	202	PEB	NB-C1B-CHA-C4A
29	kM	202	PEB	C2B-C1B-CHA-C4A
29	kM	203	PEB	ND-C1D-CHC-C4C
29	kM	203	PEB	C2D-C1D-CHC-C4C
29	kM	203	PEB	NC-C1C-CHB-C4B
29	kM	203	PEB	C2C-C1C-CHB-C4B
29	kM	203	PEB	C2A-C3A-CAA-CBA
29	kM	203	PEB	C4A-C3A-CAA-CBA
29	kM	203	PEB	NB-C1B-CHA-C4A
29	kM	203	PEB	C2B-C1B-CHA-C4A
29	lM	201	PEB	NB-C1B-CHA-C4A
29	lM	201	PEB	C2B-C1B-CHA-C4A
29	lM	202	PEB	NC-C1C-CHB-C4B
29	lM	202	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	lM	202	PEB	NB-C1B-CHA-C4A
29	lM	202	PEB	C2B-C1B-CHA-C4A
29	mM	201	PEB	ND-C1D-CHC-C4C
29	mM	201	PEB	C2D-C1D-CHC-C4C
29	mM	201	PEB	NB-C1B-CHA-C4A
29	mM	201	PEB	C2B-C1B-CHA-C4A
29	mM	202	PEB	C4A-C3A-CAA-CBA
29	mM	202	PEB	NB-C1B-CHA-C4A
29	mM	202	PEB	C2B-C1B-CHA-C4A
29	mM	203	PEB	ND-C1D-CHC-C4C
29	mM	203	PEB	C2D-C1D-CHC-C4C
29	mM	203	PEB	NC-C1C-CHB-C4B
29	mM	203	PEB	C2C-C1C-CHB-C4B
29	mM	203	PEB	C2A-C3A-CAA-CBA
29	mM	203	PEB	C4A-C3A-CAA-CBA
29	mM	203	PEB	NB-C1B-CHA-C4A
29	mM	203	PEB	C2B-C1B-CHA-C4A
29	AN	201	PEB	ND-C1D-CHC-C4C
29	AN	201	PEB	C4A-C3A-CAA-CBA
29	AN	201	PEB	NB-C1B-CHA-C4A
29	AN	201	PEB	C2B-C1B-CHA-C4A
29	AN	202	PEB	ND-C1D-CHC-C4C
29	AN	202	PEB	C2D-C1D-CHC-C4C
29	AN	202	PEB	NC-C1C-CHB-C4B
29	AN	202	PEB	C2C-C1C-CHB-C4B
29	AN	202	PEB	C4A-C3A-CAA-CBA
29	AN	202	PEB	NB-C1B-CHA-C4A
29	AN	202	PEB	C2B-C1B-CHA-C4A
29	AN	202	PEB	C3B-C4B-CHB-C1C
29	BN	201	PEB	ND-C1D-CHC-C4C
29	BN	201	PEB	C2D-C1D-CHC-C4C
29	BN	201	PEB	C2C-CAC-CBC-CGC
29	BN	201	PEB	NB-C1B-CHA-C4A
29	BN	201	PEB	C2B-C1B-CHA-C4A
29	BN	202	PEB	NC-C1C-CHB-C4B
29	BN	202	PEB	C2C-C1C-CHB-C4B
29	BN	202	PEB	C2A-C3A-CAA-CBA
29	BN	202	PEB	C4A-C3A-CAA-CBA
29	BN	202	PEB	NB-C1B-CHA-C4A
29	BN	202	PEB	C2B-C1B-CHA-C4A
29	BN	203	PEB	NC-C1C-CHB-C4B
29	BN	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	BN	203	PEB	C2A-C3A-CAA-CBA
29	BN	203	PEB	NB-C1B-CHA-C4A
29	BN	203	PEB	C2B-C1B-CHA-C4A
29	CN	201	PEB	ND-C1D-CHC-C4C
29	CN	201	PEB	C4A-C3A-CAA-CBA
29	CN	201	PEB	NB-C1B-CHA-C4A
29	CN	201	PEB	C2B-C1B-CHA-C4A
29	CN	202	PEB	ND-C1D-CHC-C4C
29	CN	202	PEB	C2D-C1D-CHC-C4C
29	CN	202	PEB	NC-C1C-CHB-C4B
29	CN	202	PEB	C2C-C1C-CHB-C4B
29	CN	202	PEB	C4A-C3A-CAA-CBA
29	CN	202	PEB	NB-C1B-CHA-C4A
29	CN	202	PEB	C2B-C1B-CHA-C4A
29	CN	202	PEB	C3B-C4B-CHB-C1C
29	DN	201	PEB	ND-C1D-CHC-C4C
29	DN	201	PEB	C2D-C1D-CHC-C4C
29	DN	201	PEB	C2C-CAC-CBC-CGC
29	DN	201	PEB	NB-C1B-CHA-C4A
29	DN	201	PEB	C2B-C1B-CHA-C4A
29	DN	202	PEB	NC-C1C-CHB-C4B
29	DN	202	PEB	C2C-C1C-CHB-C4B
29	DN	202	PEB	C2A-C3A-CAA-CBA
29	DN	202	PEB	C4A-C3A-CAA-CBA
29	DN	202	PEB	NB-C1B-CHA-C4A
29	DN	202	PEB	C2B-C1B-CHA-C4A
29	DN	203	PEB	NC-C1C-CHB-C4B
29	DN	203	PEB	C2C-C1C-CHB-C4B
29	DN	203	PEB	C2A-C3A-CAA-CBA
29	DN	203	PEB	NB-C1B-CHA-C4A
29	DN	203	PEB	C2B-C1B-CHA-C4A
29	EN	201	PEB	ND-C1D-CHC-C4C
29	EN	201	PEB	C4A-C3A-CAA-CBA
29	EN	201	PEB	NB-C1B-CHA-C4A
29	EN	201	PEB	C2B-C1B-CHA-C4A
29	EN	202	PEB	ND-C1D-CHC-C4C
29	EN	202	PEB	C2D-C1D-CHC-C4C
29	EN	202	PEB	NC-C1C-CHB-C4B
29	EN	202	PEB	C2C-C1C-CHB-C4B
29	EN	202	PEB	C4A-C3A-CAA-CBA
29	EN	202	PEB	NB-C1B-CHA-C4A
29	EN	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	EN	202	PEB	C3B-C4B-CHB-C1C
29	FN	201	PEB	ND-C1D-CHC-C4C
29	FN	201	PEB	C2D-C1D-CHC-C4C
29	FN	201	PEB	C2C-CAC-CBC-CGC
29	FN	201	PEB	NB-C1B-CHA-C4A
29	FN	201	PEB	C2B-C1B-CHA-C4A
29	FN	202	PEB	NC-C1C-CHB-C4B
29	FN	202	PEB	C2C-C1C-CHB-C4B
29	FN	202	PEB	C2A-C3A-CAA-CBA
29	FN	202	PEB	C4A-C3A-CAA-CBA
29	FN	202	PEB	NB-C1B-CHA-C4A
29	FN	202	PEB	C2B-C1B-CHA-C4A
29	FN	203	PEB	NC-C1C-CHB-C4B
29	FN	203	PEB	C2C-C1C-CHB-C4B
29	FN	203	PEB	C2A-C3A-CAA-CBA
29	FN	203	PEB	NB-C1B-CHA-C4A
29	FN	203	PEB	C2B-C1B-CHA-C4A
29	GN	201	PEB	ND-C1D-CHC-C4C
29	GN	201	PEB	C4A-C3A-CAA-CBA
29	GN	201	PEB	NB-C1B-CHA-C4A
29	GN	201	PEB	C2B-C1B-CHA-C4A
29	GN	202	PEB	ND-C1D-CHC-C4C
29	GN	202	PEB	C2D-C1D-CHC-C4C
29	GN	202	PEB	NC-C1C-CHB-C4B
29	GN	202	PEB	C2C-C1C-CHB-C4B
29	GN	202	PEB	C4A-C3A-CAA-CBA
29	GN	202	PEB	NB-C1B-CHA-C4A
29	GN	202	PEB	C2B-C1B-CHA-C4A
29	GN	202	PEB	C3B-C4B-CHB-C1C
29	HN	201	PEB	ND-C1D-CHC-C4C
29	HN	201	PEB	C2D-C1D-CHC-C4C
29	HN	201	PEB	C2C-CAC-CBC-CGC
29	HN	201	PEB	NB-C1B-CHA-C4A
29	HN	201	PEB	C2B-C1B-CHA-C4A
29	HN	202	PEB	NC-C1C-CHB-C4B
29	HN	202	PEB	C2C-C1C-CHB-C4B
29	HN	202	PEB	C2A-C3A-CAA-CBA
29	HN	202	PEB	C4A-C3A-CAA-CBA
29	HN	202	PEB	NB-C1B-CHA-C4A
29	HN	202	PEB	C2B-C1B-CHA-C4A
29	HN	203	PEB	NC-C1C-CHB-C4B
29	HN	203	PEB	C2C-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	HN	203	PEB	C2A-C3A-CAA-CBA
29	HN	203	PEB	NB-C1B-CHA-C4A
29	HN	203	PEB	C2B-C1B-CHA-C4A
29	IN	201	PEB	ND-C1D-CHC-C4C
29	IN	201	PEB	C4A-C3A-CAA-CBA
29	IN	201	PEB	NB-C1B-CHA-C4A
29	IN	201	PEB	C2B-C1B-CHA-C4A
29	IN	202	PEB	ND-C1D-CHC-C4C
29	IN	202	PEB	C2D-C1D-CHC-C4C
29	IN	202	PEB	NC-C1C-CHB-C4B
29	IN	202	PEB	C2C-C1C-CHB-C4B
29	IN	202	PEB	C4A-C3A-CAA-CBA
29	IN	202	PEB	NB-C1B-CHA-C4A
29	IN	202	PEB	C2B-C1B-CHA-C4A
29	IN	202	PEB	C3B-C4B-CHB-C1C
29	JN	201	PEB	ND-C1D-CHC-C4C
29	JN	201	PEB	C2D-C1D-CHC-C4C
29	JN	201	PEB	C2C-CAC-CBC-CGC
29	JN	201	PEB	NB-C1B-CHA-C4A
29	JN	201	PEB	C2B-C1B-CHA-C4A
29	JN	202	PEB	NC-C1C-CHB-C4B
29	JN	202	PEB	C2C-C1C-CHB-C4B
29	JN	202	PEB	C2A-C3A-CAA-CBA
29	JN	202	PEB	C4A-C3A-CAA-CBA
29	JN	202	PEB	NB-C1B-CHA-C4A
29	JN	202	PEB	C2B-C1B-CHA-C4A
29	JN	203	PEB	NC-C1C-CHB-C4B
29	JN	203	PEB	C2C-C1C-CHB-C4B
29	JN	203	PEB	C2A-C3A-CAA-CBA
29	JN	203	PEB	NB-C1B-CHA-C4A
29	JN	203	PEB	C2B-C1B-CHA-C4A
29	KN	201	PEB	ND-C1D-CHC-C4C
29	KN	201	PEB	C4A-C3A-CAA-CBA
29	KN	201	PEB	NB-C1B-CHA-C4A
29	KN	201	PEB	C2B-C1B-CHA-C4A
29	KN	202	PEB	ND-C1D-CHC-C4C
29	KN	202	PEB	C2D-C1D-CHC-C4C
29	KN	202	PEB	NC-C1C-CHB-C4B
29	KN	202	PEB	C2C-C1C-CHB-C4B
29	KN	202	PEB	C4A-C3A-CAA-CBA
29	KN	202	PEB	NB-C1B-CHA-C4A
29	KN	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	KN	202	PEB	C3B-C4B-CHB-C1C
29	LN	201	PEB	ND-C1D-CHC-C4C
29	LN	201	PEB	C2D-C1D-CHC-C4C
29	LN	201	PEB	C2C-CAC-CBC-CGC
29	LN	201	PEB	NB-C1B-CHA-C4A
29	LN	201	PEB	C2B-C1B-CHA-C4A
29	LN	202	PEB	NC-C1C-CHB-C4B
29	LN	202	PEB	C2C-C1C-CHB-C4B
29	LN	202	PEB	C2A-C3A-CAA-CBA
29	LN	202	PEB	C4A-C3A-CAA-CBA
29	LN	202	PEB	NB-C1B-CHA-C4A
29	LN	202	PEB	C2B-C1B-CHA-C4A
29	LN	203	PEB	NC-C1C-CHB-C4B
29	LN	203	PEB	C2C-C1C-CHB-C4B
29	LN	203	PEB	C2A-C3A-CAA-CBA
29	LN	203	PEB	NB-C1B-CHA-C4A
29	LN	203	PEB	C2B-C1B-CHA-C4A
29	MN	401	PEB	ND-C1D-CHC-C4C
29	MN	401	PEB	NC-C1C-CHB-C4B
29	MN	401	PEB	C2C-C1C-CHB-C4B
29	MN	401	PEB	C4A-C3A-CAA-CBA
29	MN	401	PEB	NB-C1B-CHA-C4A
29	MN	401	PEB	C2B-C1B-CHA-C4A
29	MN	404	PEB	ND-C1D-CHC-C4C
29	MN	404	PEB	C2D-C1D-CHC-C4C
29	MN	404	PEB	NC-C1C-CHB-C4B
29	MN	404	PEB	C2C-C1C-CHB-C4B
29	MN	404	PEB	NB-C1B-CHA-C4A
29	MN	404	PEB	C2B-C1B-CHA-C4A
29	MN	405	PEB	ND-C1D-CHC-C4C
29	MN	405	PEB	C2D-C1D-CHC-C4C
29	MN	405	PEB	C2C-CAC-CBC-CGC
29	AO	201	PEB	NB-C1B-CHA-C4A
29	AO	201	PEB	C2B-C1B-CHA-C4A
29	AO	202	PEB	C2C-CAC-CBC-CGC
29	AO	202	PEB	C2A-C3A-CAA-CBA
29	AO	202	PEB	C4A-C3A-CAA-CBA
29	AO	202	PEB	NB-C1B-CHA-C4A
29	AO	202	PEB	C2B-C1B-CHA-C4A
29	BO	201	PEB	NB-C1B-CHA-C4A
29	BO	201	PEB	C2B-C1B-CHA-C4A
29	BO	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	BO	202	PEB	C2A-C3A-CAA-CBA
29	BO	202	PEB	C4A-C3A-CAA-CBA
29	BO	202	PEB	NB-C1B-CHA-C4A
29	BO	202	PEB	C2B-C1B-CHA-C4A
29	BO	203	PEB	ND-C1D-CHC-C4C
29	BO	203	PEB	C2D-C1D-CHC-C4C
29	BO	203	PEB	NC-C1C-CHB-C4B
29	BO	203	PEB	C2C-C1C-CHB-C4B
29	BO	203	PEB	C2A-C3A-CAA-CBA
29	BO	203	PEB	C4A-C3A-CAA-CBA
29	BO	203	PEB	NB-C1B-CHA-C4A
29	BO	203	PEB	C2B-C1B-CHA-C4A
29	CO	201	PEB	NB-C1B-CHA-C4A
29	CO	201	PEB	C2B-C1B-CHA-C4A
29	CO	202	PEB	C2C-CAC-CBC-CGC
29	CO	202	PEB	C2A-C3A-CAA-CBA
29	CO	202	PEB	C4A-C3A-CAA-CBA
29	CO	202	PEB	NB-C1B-CHA-C4A
29	CO	202	PEB	C2B-C1B-CHA-C4A
29	DO	201	PEB	NB-C1B-CHA-C4A
29	DO	201	PEB	C2B-C1B-CHA-C4A
29	DO	202	PEB	C2A-C3A-CAA-CBA
29	DO	202	PEB	C4A-C3A-CAA-CBA
29	DO	202	PEB	NB-C1B-CHA-C4A
29	DO	202	PEB	C2B-C1B-CHA-C4A
29	DO	203	PEB	ND-C1D-CHC-C4C
29	DO	203	PEB	C2D-C1D-CHC-C4C
29	DO	203	PEB	NC-C1C-CHB-C4B
29	DO	203	PEB	C2C-C1C-CHB-C4B
29	DO	203	PEB	C2A-C3A-CAA-CBA
29	DO	203	PEB	C4A-C3A-CAA-CBA
29	DO	203	PEB	NB-C1B-CHA-C4A
29	DO	203	PEB	C2B-C1B-CHA-C4A
29	EO	201	PEB	NB-C1B-CHA-C4A
29	EO	201	PEB	C2B-C1B-CHA-C4A
29	EO	202	PEB	C2C-CAC-CBC-CGC
29	EO	202	PEB	C2A-C3A-CAA-CBA
29	EO	202	PEB	C4A-C3A-CAA-CBA
29	EO	202	PEB	NB-C1B-CHA-C4A
29	EO	202	PEB	C2B-C1B-CHA-C4A
29	FO	201	PEB	NB-C1B-CHA-C4A
29	FO	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	FO	202	PEB	C2C-CAC-CBC-CGC
29	FO	202	PEB	C2A-C3A-CAA-CBA
29	FO	202	PEB	C4A-C3A-CAA-CBA
29	FO	202	PEB	NB-C1B-CHA-C4A
29	FO	202	PEB	C2B-C1B-CHA-C4A
29	FO	203	PEB	ND-C1D-CHC-C4C
29	FO	203	PEB	C2D-C1D-CHC-C4C
29	FO	203	PEB	NC-C1C-CHB-C4B
29	FO	203	PEB	C2C-C1C-CHB-C4B
29	FO	203	PEB	C2A-C3A-CAA-CBA
29	FO	203	PEB	C4A-C3A-CAA-CBA
29	FO	203	PEB	NB-C1B-CHA-C4A
29	FO	203	PEB	C2B-C1B-CHA-C4A
29	GO	201	PEB	NB-C1B-CHA-C4A
29	GO	201	PEB	C2B-C1B-CHA-C4A
29	GO	202	PEB	C2C-CAC-CBC-CGC
29	GO	202	PEB	C2A-C3A-CAA-CBA
29	GO	202	PEB	C4A-C3A-CAA-CBA
29	GO	202	PEB	NB-C1B-CHA-C4A
29	GO	202	PEB	C2B-C1B-CHA-C4A
29	HO	201	PEB	NB-C1B-CHA-C4A
29	HO	201	PEB	C2B-C1B-CHA-C4A
29	HO	202	PEB	C2C-CAC-CBC-CGC
29	HO	202	PEB	C2A-C3A-CAA-CBA
29	HO	202	PEB	C4A-C3A-CAA-CBA
29	HO	202	PEB	NB-C1B-CHA-C4A
29	HO	202	PEB	C2B-C1B-CHA-C4A
29	HO	203	PEB	ND-C1D-CHC-C4C
29	HO	203	PEB	C2D-C1D-CHC-C4C
29	HO	203	PEB	NC-C1C-CHB-C4B
29	HO	203	PEB	C2C-C1C-CHB-C4B
29	HO	203	PEB	C2A-C3A-CAA-CBA
29	HO	203	PEB	C4A-C3A-CAA-CBA
29	HO	203	PEB	NB-C1B-CHA-C4A
29	HO	203	PEB	C2B-C1B-CHA-C4A
29	IO	201	PEB	NB-C1B-CHA-C4A
29	IO	201	PEB	C2B-C1B-CHA-C4A
29	IO	202	PEB	C2C-CAC-CBC-CGC
29	IO	202	PEB	C2A-C3A-CAA-CBA
29	IO	202	PEB	C4A-C3A-CAA-CBA
29	IO	202	PEB	NB-C1B-CHA-C4A
29	IO	202	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	IO	203	PEB	C2C-CAC-CBC-CGC
29	IO	203	PEB	C2A-C3A-CAA-CBA
29	IO	203	PEB	C4A-C3A-CAA-CBA
29	IO	203	PEB	NB-C1B-CHA-C4A
29	IO	203	PEB	C2B-C1B-CHA-C4A
29	JO	201	PEB	NB-C1B-CHA-C4A
29	JO	201	PEB	C2B-C1B-CHA-C4A
29	JO	202	PEB	C2C-CAC-CBC-CGC
29	JO	202	PEB	C2A-C3A-CAA-CBA
29	JO	202	PEB	C4A-C3A-CAA-CBA
29	JO	202	PEB	NB-C1B-CHA-C4A
29	JO	202	PEB	C2B-C1B-CHA-C4A
29	JO	203	PEB	ND-C1D-CHC-C4C
29	JO	203	PEB	C2D-C1D-CHC-C4C
29	JO	203	PEB	NC-C1C-CHB-C4B
29	JO	203	PEB	C2C-C1C-CHB-C4B
29	JO	203	PEB	C2A-C3A-CAA-CBA
29	JO	203	PEB	C4A-C3A-CAA-CBA
29	JO	203	PEB	NB-C1B-CHA-C4A
29	JO	203	PEB	C2B-C1B-CHA-C4A
29	KO	201	PEB	NB-C1B-CHA-C4A
29	KO	201	PEB	C2B-C1B-CHA-C4A
29	KO	202	PEB	C2C-CAC-CBC-CGC
29	KO	202	PEB	C2A-C3A-CAA-CBA
29	KO	202	PEB	C4A-C3A-CAA-CBA
29	KO	202	PEB	NB-C1B-CHA-C4A
29	KO	202	PEB	C2B-C1B-CHA-C4A
29	LO	201	PEB	NB-C1B-CHA-C4A
29	LO	201	PEB	C2B-C1B-CHA-C4A
29	LO	202	PEB	ND-C1D-CHC-C4C
29	LO	202	PEB	C2D-C1D-CHC-C4C
29	LO	202	PEB	NC-C1C-CHB-C4B
29	LO	202	PEB	C2C-C1C-CHB-C4B
29	LO	202	PEB	C2A-C3A-CAA-CBA
29	LO	202	PEB	C4A-C3A-CAA-CBA
29	LO	202	PEB	NB-C1B-CHA-C4A
29	LO	202	PEB	C2B-C1B-CHA-C4A
29	MO	201	PEB	NB-C1B-CHA-C4A
29	MO	201	PEB	C2B-C1B-CHA-C4A
29	MO	202	PEB	NB-C1B-CHA-C4A
29	MO	202	PEB	C2B-C1B-CHA-C4A
29	MO	203	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	MO	203	PEB	C2D-C1D-CHC-C4C
29	MO	203	PEB	NC-C1C-CHB-C4B
29	MO	203	PEB	C2C-C1C-CHB-C4B
29	MO	203	PEB	NB-C1B-CHA-C4A
29	MO	203	PEB	C2B-C1B-CHA-C4A
29	NO	201	PEB	NB-C1B-CHA-C4A
29	NO	201	PEB	C2B-C1B-CHA-C4A
29	NO	202	PEB	NB-C1B-CHA-C4A
29	NO	202	PEB	C2B-C1B-CHA-C4A
29	NO	203	PEB	ND-C1D-CHC-C4C
29	NO	203	PEB	C2D-C1D-CHC-C4C
29	NO	203	PEB	NC-C1C-CHB-C4B
29	NO	203	PEB	C2C-C1C-CHB-C4B
29	NO	203	PEB	NB-C1B-CHA-C4A
29	NO	203	PEB	C2B-C1B-CHA-C4A
29	AQ	201	PEB	NB-C1B-CHA-C4A
29	AQ	201	PEB	C2B-C1B-CHA-C4A
29	AQ	202	PEB	NC-C1C-CHB-C4B
29	AQ	202	PEB	C2C-C1C-CHB-C4B
29	AQ	202	PEB	C2C-CAC-CBC-CGC
29	AQ	202	PEB	C4A-C3A-CAA-CBA
29	AQ	202	PEB	NB-C1B-CHA-C4A
29	AQ	202	PEB	C2B-C1B-CHA-C4A
29	BQ	201	PEB	ND-C1D-CHC-C4C
29	BQ	201	PEB	C2C-CAC-CBC-CGC
29	BQ	201	PEB	NB-C1B-CHA-C4A
29	BQ	201	PEB	C2B-C1B-CHA-C4A
29	BQ	202	PEB	C2A-C3A-CAA-CBA
29	BQ	202	PEB	C4A-C3A-CAA-CBA
29	BQ	202	PEB	NB-C1B-CHA-C4A
29	BQ	202	PEB	C2B-C1B-CHA-C4A
29	BQ	203	PEB	ND-C1D-CHC-C4C
29	BQ	203	PEB	C2D-C1D-CHC-C4C
29	BQ	203	PEB	NC-C1C-CHB-C4B
29	BQ	203	PEB	C2C-C1C-CHB-C4B
29	BQ	203	PEB	NB-C1B-CHA-C4A
29	BQ	203	PEB	C2B-C1B-CHA-C4A
29	CQ	201	PEB	NB-C1B-CHA-C4A
29	CQ	201	PEB	C2B-C1B-CHA-C4A
29	CQ	202	PEB	NC-C1C-CHB-C4B
29	CQ	202	PEB	C2C-C1C-CHB-C4B
29	CQ	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	CQ	202	PEB	C4A-C3A-CAA-CBA
29	CQ	202	PEB	NB-C1B-CHA-C4A
29	CQ	202	PEB	C2B-C1B-CHA-C4A
29	DQ	201	PEB	ND-C1D-CHC-C4C
29	DQ	201	PEB	C2C-CAC-CBC-CGC
29	DQ	201	PEB	NB-C1B-CHA-C4A
29	DQ	201	PEB	C2B-C1B-CHA-C4A
29	DQ	202	PEB	C2A-C3A-CAA-CBA
29	DQ	202	PEB	C4A-C3A-CAA-CBA
29	DQ	202	PEB	NB-C1B-CHA-C4A
29	DQ	202	PEB	C2B-C1B-CHA-C4A
29	DQ	203	PEB	ND-C1D-CHC-C4C
29	DQ	203	PEB	C2D-C1D-CHC-C4C
29	DQ	203	PEB	NC-C1C-CHB-C4B
29	DQ	203	PEB	C2C-C1C-CHB-C4B
29	DQ	203	PEB	NB-C1B-CHA-C4A
29	DQ	203	PEB	C2B-C1B-CHA-C4A
29	EQ	201	PEB	NB-C1B-CHA-C4A
29	EQ	201	PEB	C2B-C1B-CHA-C4A
29	EQ	202	PEB	NC-C1C-CHB-C4B
29	EQ	202	PEB	C2C-C1C-CHB-C4B
29	EQ	202	PEB	C2C-CAC-CBC-CGC
29	EQ	202	PEB	C4A-C3A-CAA-CBA
29	EQ	202	PEB	NB-C1B-CHA-C4A
29	EQ	202	PEB	C2B-C1B-CHA-C4A
29	FQ	201	PEB	ND-C1D-CHC-C4C
29	FQ	201	PEB	C2C-CAC-CBC-CGC
29	FQ	201	PEB	NB-C1B-CHA-C4A
29	FQ	201	PEB	C2B-C1B-CHA-C4A
29	FQ	202	PEB	C2A-C3A-CAA-CBA
29	FQ	202	PEB	C4A-C3A-CAA-CBA
29	FQ	202	PEB	NB-C1B-CHA-C4A
29	FQ	202	PEB	C2B-C1B-CHA-C4A
29	FQ	203	PEB	ND-C1D-CHC-C4C
29	FQ	203	PEB	C2D-C1D-CHC-C4C
29	FQ	203	PEB	NC-C1C-CHB-C4B
29	FQ	203	PEB	C2C-C1C-CHB-C4B
29	FQ	203	PEB	NB-C1B-CHA-C4A
29	FQ	203	PEB	C2B-C1B-CHA-C4A
29	GQ	201	PEB	NB-C1B-CHA-C4A
29	GQ	201	PEB	C2B-C1B-CHA-C4A
29	GQ	202	PEB	NC-C1C-CHB-C4B

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Mol	Chain	Res	Type	Atoms
29	GQ	202	PEB	C2C-C1C-CHB-C4B
29	GQ	202	PEB	C2C-CAC-CBC-CGC
29	GQ	202	PEB	C4A-C3A-CAA-CBA
29	GQ	202	PEB	NB-C1B-CHA-C4A
29	GQ	202	PEB	C2B-C1B-CHA-C4A
29	HQ	201	PEB	ND-C1D-CHC-C4C
29	HQ	201	PEB	C2C-CAC-CBC-CGC
29	HQ	201	PEB	NB-C1B-CHA-C4A
29	HQ	201	PEB	C2B-C1B-CHA-C4A
29	HQ	202	PEB	C2A-C3A-CAA-CBA
29	HQ	202	PEB	C4A-C3A-CAA-CBA
29	HQ	202	PEB	NB-C1B-CHA-C4A
29	HQ	202	PEB	C2B-C1B-CHA-C4A
29	HQ	203	PEB	ND-C1D-CHC-C4C
29	HQ	203	PEB	C2D-C1D-CHC-C4C
29	HQ	203	PEB	NC-C1C-CHB-C4B
29	HQ	203	PEB	C2C-C1C-CHB-C4B
29	HQ	203	PEB	NB-C1B-CHA-C4A
29	HQ	203	PEB	C2B-C1B-CHA-C4A
29	IQ	201	PEB	NB-C1B-CHA-C4A
29	IQ	201	PEB	C2B-C1B-CHA-C4A
29	IQ	202	PEB	NC-C1C-CHB-C4B
29	IQ	202	PEB	C2C-C1C-CHB-C4B
29	IQ	202	PEB	C2C-CAC-CBC-CGC
29	IQ	202	PEB	C4A-C3A-CAA-CBA
29	IQ	202	PEB	NB-C1B-CHA-C4A
29	IQ	202	PEB	C2B-C1B-CHA-C4A
29	JQ	201	PEB	ND-C1D-CHC-C4C
29	JQ	201	PEB	C2C-CAC-CBC-CGC
29	JQ	201	PEB	NB-C1B-CHA-C4A
29	JQ	201	PEB	C2B-C1B-CHA-C4A
29	JQ	202	PEB	C2A-C3A-CAA-CBA
29	JQ	202	PEB	C4A-C3A-CAA-CBA
29	JQ	202	PEB	NB-C1B-CHA-C4A
29	JQ	202	PEB	C2B-C1B-CHA-C4A
29	JQ	203	PEB	ND-C1D-CHC-C4C
29	JQ	203	PEB	C2D-C1D-CHC-C4C
29	JQ	203	PEB	NC-C1C-CHB-C4B
29	JQ	203	PEB	C2C-C1C-CHB-C4B
29	JQ	203	PEB	NB-C1B-CHA-C4A
29	JQ	203	PEB	C2B-C1B-CHA-C4A
29	KQ	201	PEB	NB-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	KQ	201	PEB	C2B-C1B-CHA-C4A
29	KQ	202	PEB	NC-C1C-CHB-C4B
29	KQ	202	PEB	C2C-C1C-CHB-C4B
29	KQ	202	PEB	C2C-CAC-CBC-CGC
29	KQ	202	PEB	C4A-C3A-CAA-CBA
29	KQ	202	PEB	NB-C1B-CHA-C4A
29	KQ	202	PEB	C2B-C1B-CHA-C4A
29	LQ	201	PEB	C2A-C3A-CAA-CBA
29	LQ	201	PEB	C4A-C3A-CAA-CBA
29	LQ	201	PEB	NB-C1B-CHA-C4A
29	LQ	201	PEB	C2B-C1B-CHA-C4A
29	LQ	202	PEB	ND-C1D-CHC-C4C
29	LQ	202	PEB	C2D-C1D-CHC-C4C
29	LQ	202	PEB	NC-C1C-CHB-C4B
29	LQ	202	PEB	C2C-C1C-CHB-C4B
29	LQ	202	PEB	NB-C1B-CHA-C4A
29	LQ	202	PEB	C2B-C1B-CHA-C4A
29	MQ	401	PEB	NC-C1C-CHB-C4B
29	MQ	401	PEB	C2C-C1C-CHB-C4B
29	MQ	401	PEB	NB-C1B-CHA-C4A
29	MQ	401	PEB	C2B-C1B-CHA-C4A
29	MQ	402	PEB	ND-C1D-CHC-C4C
29	MQ	402	PEB	C2C-CAC-CBC-CGC
29	MQ	402	PEB	NB-C1B-CHA-C4A
29	MQ	402	PEB	C2B-C1B-CHA-C4A
29	MQ	403	PEB	C2A-C3A-CAA-CBA
29	MQ	403	PEB	C4A-C3A-CAA-CBA
29	MQ	403	PEB	NB-C1B-CHA-C4A
29	MQ	403	PEB	C2B-C1B-CHA-C4A
29	MQ	406	PEB	ND-C1D-CHC-C4C
29	MQ	406	PEB	NC-C1C-CHB-C4B
29	MQ	406	PEB	C2C-C1C-CHB-C4B
29	MQ	406	PEB	NB-C1B-CHA-C4A
29	MQ	406	PEB	C2B-C1B-CHA-C4A
29	MQ	407	PEB	NC-C1C-CHB-C4B
29	MQ	407	PEB	C2C-C1C-CHB-C4B
29	MQ	407	PEB	NB-C1B-CHA-C4A
29	MQ	407	PEB	C2B-C1B-CHA-C4A
29	eR	401	PEB	C1C-C2C-CAC-CBC
29	eR	401	PEB	C3C-C2C-CAC-CBC
29	eR	401	PEB	C2C-CAC-CBC-CGC
29	eR	401	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	eR	401	PEB	NB-C1B-CHA-C4A
29	eR	401	PEB	C2B-C1B-CHA-C4A
29	MR	201	PEB	C2A-C3A-CAA-CBA
29	MR	201	PEB	C4A-C3A-CAA-CBA
29	MR	201	PEB	NB-C1B-CHA-C4A
29	MR	201	PEB	C2B-C1B-CHA-C4A
29	MR	202	PEB	NB-C1B-CHA-C4A
29	MR	202	PEB	C2B-C1B-CHA-C4A
29	NR	201	PEB	NB-C1B-CHA-C4A
29	NR	201	PEB	C2B-C1B-CHA-C4A
29	NR	201	PEB	C2B-C3B-CAB-CBB
29	NR	201	PEB	C4B-C3B-CAB-CBB
29	NR	202	PEB	C2A-C3A-CAA-CBA
29	NR	202	PEB	C4A-C3A-CAA-CBA
29	NR	202	PEB	NB-C1B-CHA-C4A
29	NR	202	PEB	C2B-C1B-CHA-C4A
29	NR	203	PEB	ND-C1D-CHC-C4C
29	NR	203	PEB	C2D-C1D-CHC-C4C
29	NR	203	PEB	NC-C1C-CHB-C4B
29	NR	203	PEB	C2C-C1C-CHB-C4B
29	NR	203	PEB	C2A-C3A-CAA-CBA
29	NR	203	PEB	NB-C1B-CHA-C4A
29	NR	203	PEB	C2B-C1B-CHA-C4A
29	OR	201	PEB	C2A-C3A-CAA-CBA
29	OR	201	PEB	C4A-C3A-CAA-CBA
29	OR	201	PEB	NB-C1B-CHA-C4A
29	OR	201	PEB	C2B-C1B-CHA-C4A
29	OR	202	PEB	NB-C1B-CHA-C4A
29	OR	202	PEB	C2B-C1B-CHA-C4A
29	PR	201	PEB	C2A-C3A-CAA-CBA
29	PR	201	PEB	C4A-C3A-CAA-CBA
29	PR	201	PEB	NB-C1B-CHA-C4A
29	PR	201	PEB	C2B-C1B-CHA-C4A
29	PR	202	PEB	ND-C1D-CHC-C4C
29	PR	202	PEB	C2D-C1D-CHC-C4C
29	PR	202	PEB	NC-C1C-CHB-C4B
29	PR	202	PEB	C2C-C1C-CHB-C4B
29	PR	202	PEB	C2A-C3A-CAA-CBA
29	PR	202	PEB	NB-C1B-CHA-C4A
29	PR	202	PEB	C2B-C1B-CHA-C4A
29	QR	201	PEB	C2A-C3A-CAA-CBA
29	QR	201	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	QR	201	PEB	NB-C1B-CHA-C4A
29	QR	201	PEB	C2B-C1B-CHA-C4A
29	QR	202	PEB	NB-C1B-CHA-C4A
29	QR	202	PEB	C2B-C1B-CHA-C4A
29	RR	201	PEB	NB-C1B-CHA-C4A
29	RR	201	PEB	C2B-C1B-CHA-C4A
29	RR	201	PEB	C2B-C3B-CAB-CBB
29	RR	201	PEB	C4B-C3B-CAB-CBB
29	RR	202	PEB	C2A-C3A-CAA-CBA
29	RR	202	PEB	C4A-C3A-CAA-CBA
29	RR	202	PEB	NB-C1B-CHA-C4A
29	RR	202	PEB	C2B-C1B-CHA-C4A
29	RR	203	PEB	ND-C1D-CHC-C4C
29	RR	203	PEB	C2D-C1D-CHC-C4C
29	RR	203	PEB	NC-C1C-CHB-C4B
29	RR	203	PEB	C2C-C1C-CHB-C4B
29	RR	203	PEB	C2A-C3A-CAA-CBA
29	RR	203	PEB	NB-C1B-CHA-C4A
29	RR	203	PEB	C2B-C1B-CHA-C4A
29	SR	201	PEB	NB-C1B-CHA-C4A
29	SR	201	PEB	C2B-C1B-CHA-C4A
29	SR	202	PEB	NB-C1B-CHA-C4A
29	SR	202	PEB	C2B-C1B-CHA-C4A
29	TR	201	PEB	NB-C1B-CHA-C4A
29	TR	201	PEB	C2B-C1B-CHA-C4A
29	TR	201	PEB	C2B-C3B-CAB-CBB
29	TR	201	PEB	C4B-C3B-CAB-CBB
29	TR	202	PEB	C2A-C3A-CAA-CBA
29	TR	202	PEB	C4A-C3A-CAA-CBA
29	TR	202	PEB	NB-C1B-CHA-C4A
29	TR	202	PEB	C2B-C1B-CHA-C4A
29	TR	203	PEB	ND-C1D-CHC-C4C
29	TR	203	PEB	C2D-C1D-CHC-C4C
29	TR	203	PEB	NC-C1C-CHB-C4B
29	TR	203	PEB	C2C-C1C-CHB-C4B
29	TR	203	PEB	C2A-C3A-CAA-CBA
29	TR	203	PEB	NB-C1B-CHA-C4A
29	TR	203	PEB	C2B-C1B-CHA-C4A
29	UR	201	PEB	C2A-C3A-CAA-CBA
29	UR	201	PEB	C4A-C3A-CAA-CBA
29	UR	201	PEB	NB-C1B-CHA-C4A
29	UR	201	PEB	C2B-C1B-CHA-C4A

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Mol	Chain	Res	Type	Atoms
29	UR	202	PEB	NC-C1C-CHB-C4B
29	UR	202	PEB	NB-C1B-CHA-C4A
29	UR	202	PEB	C2B-C1B-CHA-C4A
29	VR	201	PEB	NB-C1B-CHA-C4A
29	VR	201	PEB	C2B-C1B-CHA-C4A
29	VR	201	PEB	C2B-C3B-CAB-CBB
29	VR	201	PEB	C4B-C3B-CAB-CBB
29	VR	202	PEB	C2A-C3A-CAA-CBA
29	VR	202	PEB	C4A-C3A-CAA-CBA
29	VR	202	PEB	NB-C1B-CHA-C4A
29	VR	202	PEB	C2B-C1B-CHA-C4A
29	VR	203	PEB	ND-C1D-CHC-C4C
29	VR	203	PEB	C2D-C1D-CHC-C4C
29	VR	203	PEB	NC-C1C-CHB-C4B
29	VR	203	PEB	C2C-C1C-CHB-C4B
29	VR	203	PEB	C2A-C3A-CAA-CBA
29	VR	203	PEB	NB-C1B-CHA-C4A
29	VR	203	PEB	C2B-C1B-CHA-C4A
29	WR	201	PEB	C2A-C3A-CAA-CBA
29	WR	201	PEB	C4A-C3A-CAA-CBA
29	WR	201	PEB	NB-C1B-CHA-C4A
29	WR	201	PEB	C2B-C1B-CHA-C4A
29	WR	202	PEB	NB-C1B-CHA-C4A
29	WR	202	PEB	C2B-C1B-CHA-C4A
29	XR	201	PEB	NB-C1B-CHA-C4A
29	XR	201	PEB	C2B-C1B-CHA-C4A
29	XR	201	PEB	C2B-C3B-CAB-CBB
29	XR	201	PEB	C4B-C3B-CAB-CBB
29	XR	202	PEB	C2A-C3A-CAA-CBA
29	XR	202	PEB	C4A-C3A-CAA-CBA
29	XR	202	PEB	NB-C1B-CHA-C4A
29	XR	202	PEB	C2B-C1B-CHA-C4A
29	XR	203	PEB	ND-C1D-CHC-C4C
29	XR	203	PEB	C2D-C1D-CHC-C4C
29	XR	203	PEB	NC-C1C-CHB-C4B
29	XR	203	PEB	C2C-C1C-CHB-C4B
29	XR	203	PEB	C2A-C3A-CAA-CBA
29	XR	203	PEB	NB-C1B-CHA-C4A
29	XR	203	PEB	C2B-C1B-CHA-C4A
30	A1	305	PUB	C3C-C4C-CHC-C1D
30	A1	305	PUB	ND-C1D-CHC-C4C
30	A1	305	PUB	NA-C4A-CHA-C1B

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Mol	Chain	Res	Type	Atoms
30	A1	305	PUB	C3A-C4A-CHA-C1B
30	A7	303	PUB	C3C-C4C-CHC-C1D
30	A9	303	PUB	C3C-C4C-CHC-C1D
30	MA	402	PUB	NC-C4C-CHC-C1D
30	MA	402	PUB	NA-C4A-CHA-C1B
30	MA	403	PUB	NC-C4C-CHC-C1D
30	MA	403	PUB	ND-C1D-CHC-C4C
30	MA	403	PUB	NA-C4A-CHA-C1B
30	MA	403	PUB	NB-C4B-CHB-C1C
30	MA	403	PUB	C3B-C4B-CHB-C1C
30	AB	304	PUB	NC-C4C-CHC-C1D
30	AB	304	PUB	C3C-C4C-CHC-C1D
30	AB	304	PUB	ND-C1D-CHC-C4C
30	AB	304	PUB	NA-C4A-CHA-C1B
30	AB	304	PUB	C3A-C4A-CHA-C1B
30	AB	304	PUB	NB-C4B-CHB-C1C
30	AB	304	PUB	C3B-C4B-CHB-C1C
30	AB	304	PUB	C3B-CAB-CBB-CGB
30	AB	305	PUB	NA-C4A-CHA-C1B
30	AB	305	PUB	C3A-C4A-CHA-C1B
30	BB	302	PUB	NC-C4C-CHC-C1D
30	BB	302	PUB	C2D-C3D-CAD-CBD
30	QB	201	PUB	NC-C4C-CHC-C1D
30	QB	201	PUB	NA-C4A-CHA-C1B
30	QB	201	PUB	C3A-C4A-CHA-C1B
30	QB	201	PUB	NB-C4B-CHB-C1C
30	AF	302	PUB	C3C-C4C-CHC-C1D
30	AF	302	PUB	NA-C4A-CHA-C1B
30	AF	302	PUB	C3A-C4A-CHA-C1B
30	AF	303	PUB	NC-C4C-CHC-C1D
30	MG	402	PUB	C3C-C4C-CHC-C1D
30	MG	402	PUB	ND-C1D-CHC-C4C
30	MG	402	PUB	C2D-C1D-CHC-C4C
30	MG	402	PUB	NA-C4A-CHA-C1B
30	MG	402	PUB	C3A-C4A-CHA-C1B
30	MG	402	PUB	C2B-C3B-CAB-CBB
30	MG	402	PUB	C4B-C3B-CAB-CBB
30	MG	403	PUB	C3C-C2C-CAC-CBC
30	MG	403	PUB	NB-C4B-CHB-C1C
30	MG	403	PUB	C3B-C4B-CHB-C1C
30	AI	302	PUB	C3C-C4C-CHC-C1D
30	AI	302	PUB	NA-C4A-CHA-C1B

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Mol	Chain	Res	Type	Atoms
30	AI	302	PUB	C3A-C4A-CHA-C1B
30	AI	303	PUB	NC-C4C-CHC-C1D
30	wJ	304	PUB	NC-C4C-CHC-C1D
30	wJ	304	PUB	ND-C1D-CHC-C4C
30	wJ	304	PUB	C2D-C1D-CHC-C4C
30	wJ	304	PUB	NB-C4B-CHB-C1C
30	wJ	304	PUB	C3B-C4B-CHB-C1C
30	wJ	304	PUB	C3B-CAB-CBB-CGB
30	xJ	304	PUB	NC-C4C-CHC-C1D
30	xJ	304	PUB	ND-C1D-CHC-C4C
30	xJ	304	PUB	C2D-C1D-CHC-C4C
30	xJ	304	PUB	NB-C4B-CHB-C1C
30	xJ	304	PUB	C3B-C4B-CHB-C1C
30	xJ	304	PUB	C3B-CAB-CBB-CGB
30	yJ	302	PUB	C4D-C3D-CAD-CBD
30	yJ	302	PUB	NB-C4B-CHB-C1C
30	yJ	303	PUB	C3C-C4C-CHC-C1D
30	AK	305	PUB	C3C-C4C-CHC-C1D
30	AK	305	PUB	ND-C1D-CHC-C4C
30	AK	305	PUB	NA-C4A-CHA-C1B
30	AK	305	PUB	C3A-C4A-CHA-C1B
30	wL	304	PUB	NC-C4C-CHC-C1D
30	wL	304	PUB	ND-C1D-CHC-C4C
30	wL	304	PUB	C2D-C1D-CHC-C4C
30	wL	304	PUB	NB-C4B-CHB-C1C
30	wL	304	PUB	C3B-C4B-CHB-C1C
30	wL	304	PUB	C3B-CAB-CBB-CGB
30	xL	304	PUB	NC-C4C-CHC-C1D
30	xL	304	PUB	ND-C1D-CHC-C4C
30	xL	304	PUB	C2D-C1D-CHC-C4C
30	xL	304	PUB	NB-C4B-CHB-C1C
30	xL	304	PUB	C3B-C4B-CHB-C1C
30	xL	304	PUB	C3B-CAB-CBB-CGB
30	yL	302	PUB	C4D-C3D-CAD-CBD
30	yL	302	PUB	NB-C4B-CHB-C1C
30	yL	303	PUB	C3C-C4C-CHC-C1D
30	yL	303	PUB	NA-C4A-CHA-C1B
30	AM	304	PUB	NC-C4C-CHC-C1D
30	AM	304	PUB	C3C-C4C-CHC-C1D
30	AM	304	PUB	ND-C1D-CHC-C4C
30	AM	304	PUB	NA-C4A-CHA-C1B
30	AM	304	PUB	C3A-C4A-CHA-C1B

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Mol	Chain	Res	Type	Atoms
30	AM	304	PUB	NB-C4B-CHB-C1C
30	AM	304	PUB	C3B-C4B-CHB-C1C
30	AM	304	PUB	C3B-CAB-CBB-CGB
30	AM	305	PUB	NA-C4A-CHA-C1B
30	AM	305	PUB	C3A-C4A-CHA-C1B
30	BM	302	PUB	NC-C4C-CHC-C1D
30	BM	302	PUB	C2D-C3D-CAD-CBD
30	QM	201	PUB	NC-C4C-CHC-C1D
30	QM	201	PUB	NA-C4A-CHA-C1B
30	QM	201	PUB	C3A-C4A-CHA-C1B
30	QM	201	PUB	NB-C4B-CHB-C1C
30	MN	402	PUB	NC-C4C-CHC-C1D
30	MN	402	PUB	NA-C4A-CHA-C1B
30	MN	403	PUB	NC-C4C-CHC-C1D
30	MN	403	PUB	ND-C1D-CHC-C4C
30	MN	403	PUB	NA-C4A-CHA-C1B
30	MN	403	PUB	NB-C4B-CHB-C1C
30	MN	403	PUB	C3B-C4B-CHB-C1C
30	MQ	404	PUB	C3C-C4C-CHC-C1D
30	MQ	404	PUB	ND-C1D-CHC-C4C
30	MQ	404	PUB	C2D-C1D-CHC-C4C
30	MQ	404	PUB	NA-C4A-CHA-C1B
30	MQ	404	PUB	C3A-C4A-CHA-C1B
30	MQ	404	PUB	C2B-C3B-CAB-CBB
30	MQ	404	PUB	C4B-C3B-CAB-CBB
30	MQ	405	PUB	C3C-C2C-CAC-CBC
30	MQ	405	PUB	NB-C4B-CHB-C1C
30	MQ	405	PUB	C3B-C4B-CHB-C1C
31	C1	1001	CYC	NA-C4A-CHB-C1B
31	C1	1001	CYC	C3A-C4A-CHB-C1B
31	D1	1001	CYC	NA-C4A-CHB-C1B
31	D1	1001	CYC	C3A-C4A-CHB-C1B
31	D1	1003	CYC	NA-C4A-CHB-C1B
31	D1	1003	CYC	C3A-C4A-CHB-C1B
31	E1	1001	CYC	NA-C4A-CHB-C1B
31	E1	1001	CYC	C3A-C4A-CHB-C1B
31	F1	1001	CYC	NA-C4A-CHB-C1B
31	F1	1001	CYC	C3A-C4A-CHB-C1B
31	H1	1001	CYC	NA-C4A-CHB-C1B
31	H1	1001	CYC	C3A-C4A-CHB-C1B
31	I1	1001	CYC	NA-C4A-CHB-C1B
31	I1	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	J1	1001	CYC	NA-C4A-CHB-C1B
31	J1	1001	CYC	C3A-C4A-CHB-C1B
31	K1	1001	CYC	NA-C4A-CHB-C1B
31	K1	1001	CYC	C3A-C4A-CHB-C1B
31	L1	1001	CYC	NA-C4A-CHB-C1B
31	L1	1001	CYC	C3A-C4A-CHB-C1B
31	M1	1001	CYC	NA-C4A-CHB-C1B
31	M1	1001	CYC	C3A-C4A-CHB-C1B
31	N1	1001	CYC	NA-C4A-CHB-C1B
31	N1	1001	CYC	C3A-C4A-CHB-C1B
31	C7	1001	CYC	NA-C4A-CHB-C1B
31	C7	1001	CYC	C3A-C4A-CHB-C1B
31	D7	1001	CYC	NA-C4A-CHB-C1B
31	D7	1001	CYC	C4B-C3B-CAB-CBB
31	D7	1001	CYC	C2D-C3D-CAD-CBD
31	D7	1001	CYC	C4D-C3D-CAD-CBD
31	D7	1001	CYC	C3D-CAD-CBD-CGD
31	E7	1001	CYC	NA-C4A-CHB-C1B
31	E7	1001	CYC	C3A-C4A-CHB-C1B
31	F7	1001	CYC	NA-C4A-CHB-C1B
31	F7	1001	CYC	C4B-C3B-CAB-CBB
31	F7	1001	CYC	C2D-C3D-CAD-CBD
31	F7	1001	CYC	C4D-C3D-CAD-CBD
31	F7	1001	CYC	C3D-CAD-CBD-CGD
31	G7	1001	CYC	NA-C4A-CHB-C1B
31	G7	1001	CYC	C3A-C4A-CHB-C1B
31	H7	1001	CYC	NA-C4A-CHB-C1B
31	H7	1001	CYC	C4B-C3B-CAB-CBB
31	H7	1001	CYC	C2D-C3D-CAD-CBD
31	H7	1001	CYC	C4D-C3D-CAD-CBD
31	H7	1001	CYC	C3D-CAD-CBD-CGD
31	I7	1001	CYC	NA-C4A-CHB-C1B
31	I7	1001	CYC	C3A-C4A-CHB-C1B
31	J7	1001	CYC	NA-C4A-CHB-C1B
31	J7	1001	CYC	C4B-C3B-CAB-CBB
31	J7	1001	CYC	C2D-C3D-CAD-CBD
31	J7	1001	CYC	C4D-C3D-CAD-CBD
31	J7	1001	CYC	C3D-CAD-CBD-CGD
31	K7	1001	CYC	NA-C4A-CHB-C1B
31	K7	1001	CYC	C3A-C4A-CHB-C1B
31	L7	1001	CYC	NA-C4A-CHB-C1B
31	L7	1001	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
31	L7	1001	CYC	C2D-C3D-CAD-CBD
31	L7	1001	CYC	C4D-C3D-CAD-CBD
31	L7	1001	CYC	C3D-CAD-CBD-CGD
31	M7	1001	CYC	NA-C4A-CHB-C1B
31	M7	1001	CYC	C3A-C4A-CHB-C1B
31	N7	1001	CYC	NA-C4A-CHB-C1B
31	N7	1001	CYC	C4B-C3B-CAB-CBB
31	N7	1001	CYC	C2D-C3D-CAD-CBD
31	N7	1001	CYC	C4D-C3D-CAD-CBD
31	N7	1001	CYC	C3D-CAD-CBD-CGD
31	C9	1001	CYC	NA-C4A-CHB-C1B
31	C9	1001	CYC	C3A-C4A-CHB-C1B
31	D9	1001	CYC	NA-C4A-CHB-C1B
31	D9	1001	CYC	C4B-C3B-CAB-CBB
31	D9	1001	CYC	C2D-C3D-CAD-CBD
31	D9	1001	CYC	C4D-C3D-CAD-CBD
31	D9	1001	CYC	C3D-CAD-CBD-CGD
31	E9	1001	CYC	NA-C4A-CHB-C1B
31	E9	1001	CYC	C3A-C4A-CHB-C1B
31	F9	1001	CYC	NA-C4A-CHB-C1B
31	F9	1001	CYC	C4B-C3B-CAB-CBB
31	F9	1001	CYC	C2D-C3D-CAD-CBD
31	F9	1001	CYC	C4D-C3D-CAD-CBD
31	F9	1001	CYC	C3D-CAD-CBD-CGD
31	G9	1001	CYC	NA-C4A-CHB-C1B
31	G9	1001	CYC	C3A-C4A-CHB-C1B
31	H9	1001	CYC	NA-C4A-CHB-C1B
31	H9	1001	CYC	C4B-C3B-CAB-CBB
31	H9	1001	CYC	C2D-C3D-CAD-CBD
31	H9	1001	CYC	C4D-C3D-CAD-CBD
31	H9	1001	CYC	C3D-CAD-CBD-CGD
31	I9	1001	CYC	NA-C4A-CHB-C1B
31	I9	1001	CYC	C3A-C4A-CHB-C1B
31	J9	1001	CYC	NA-C4A-CHB-C1B
31	J9	1001	CYC	C4B-C3B-CAB-CBB
31	J9	1001	CYC	C2D-C3D-CAD-CBD
31	J9	1001	CYC	C4D-C3D-CAD-CBD
31	J9	1001	CYC	C3D-CAD-CBD-CGD
31	K9	1001	CYC	NA-C4A-CHB-C1B
31	K9	1001	CYC	C3A-C4A-CHB-C1B
31	L9	1001	CYC	NA-C4A-CHB-C1B
31	L9	1001	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
31	L9	1001	CYC	C2D-C3D-CAD-CBD
31	L9	1001	CYC	C4D-C3D-CAD-CBD
31	L9	1001	CYC	C3D-CAD-CBD-CGD
31	M9	1001	CYC	NA-C4A-CHB-C1B
31	M9	1001	CYC	C3A-C4A-CHB-C1B
31	N9	1001	CYC	NA-C4A-CHB-C1B
31	N9	1001	CYC	C4B-C3B-CAB-CBB
31	N9	1001	CYC	C2D-C3D-CAD-CBD
31	N9	1001	CYC	C4D-C3D-CAD-CBD
31	N9	1001	CYC	C3D-CAD-CBD-CGD
31	CF	1001	CYC	NA-C4A-CHB-C1B
31	CF	1001	CYC	C3A-C4A-CHB-C1B
31	CF	1001	CYC	C4B-C3B-CAB-CBB
31	CF	1001	CYC	C2C-C3C-CAC-CBC
31	CF	1001	CYC	C4C-C3C-CAC-CBC
31	DF	1001	CYC	NA-C4A-CHB-C1B
31	DF	1001	CYC	C3A-C4A-CHB-C1B
31	DF	1001	CYC	C4B-C3B-CAB-CBB
31	EF	1001	CYC	NA-C4A-CHB-C1B
31	EF	1001	CYC	C3A-C4A-CHB-C1B
31	EF	1001	CYC	C4B-C3B-CAB-CBB
31	EF	1001	CYC	C2C-C3C-CAC-CBC
31	EF	1001	CYC	C4C-C3C-CAC-CBC
31	FF	1001	CYC	NA-C4A-CHB-C1B
31	FF	1001	CYC	C3A-C4A-CHB-C1B
31	FF	1001	CYC	C4B-C3B-CAB-CBB
31	GF	1001	CYC	NA-C4A-CHB-C1B
31	GF	1001	CYC	C3A-C4A-CHB-C1B
31	GF	1001	CYC	C4B-C3B-CAB-CBB
31	GF	1001	CYC	C2C-C3C-CAC-CBC
31	GF	1001	CYC	C4C-C3C-CAC-CBC
31	HF	1001	CYC	NA-C4A-CHB-C1B
31	HF	1001	CYC	C3A-C4A-CHB-C1B
31	HF	1001	CYC	C4B-C3B-CAB-CBB
31	IF	1001	CYC	NA-C4A-CHB-C1B
31	IF	1001	CYC	C3A-C4A-CHB-C1B
31	IF	1001	CYC	C4B-C3B-CAB-CBB
31	IF	1001	CYC	C2C-C3C-CAC-CBC
31	IF	1001	CYC	C4C-C3C-CAC-CBC
31	JF	1001	CYC	NA-C4A-CHB-C1B
31	JF	1001	CYC	C3A-C4A-CHB-C1B
31	JF	1001	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
31	KF	1001	CYC	NA-C4A-CHB-C1B
31	KF	1001	CYC	C3A-C4A-CHB-C1B
31	KF	1001	CYC	C4B-C3B-CAB-CBB
31	KF	1001	CYC	C2C-C3C-CAC-CBC
31	KF	1001	CYC	C4C-C3C-CAC-CBC
31	LF	1001	CYC	NA-C4A-CHB-C1B
31	LF	1001	CYC	C3A-C4A-CHB-C1B
31	LF	1001	CYC	C4B-C3B-CAB-CBB
31	MF	1001	CYC	NA-C4A-CHB-C1B
31	MF	1001	CYC	C3A-C4A-CHB-C1B
31	MF	1001	CYC	C4B-C3B-CAB-CBB
31	MF	1001	CYC	C2C-C3C-CAC-CBC
31	MF	1001	CYC	C4C-C3C-CAC-CBC
31	NF	1001	CYC	NA-C4A-CHB-C1B
31	NF	1001	CYC	C3A-C4A-CHB-C1B
31	NF	1001	CYC	C4B-C3B-CAB-CBB
31	CI	1001	CYC	NA-C4A-CHB-C1B
31	CI	1001	CYC	C3A-C4A-CHB-C1B
31	CI	1001	CYC	C4B-C3B-CAB-CBB
31	CI	1001	CYC	C2C-C3C-CAC-CBC
31	CI	1001	CYC	C4C-C3C-CAC-CBC
31	DI	1001	CYC	NA-C4A-CHB-C1B
31	DI	1001	CYC	C3A-C4A-CHB-C1B
31	DI	1001	CYC	C4B-C3B-CAB-CBB
31	EI	1001	CYC	NA-C4A-CHB-C1B
31	EI	1001	CYC	C3A-C4A-CHB-C1B
31	EI	1001	CYC	C4B-C3B-CAB-CBB
31	EI	1001	CYC	C2C-C3C-CAC-CBC
31	EI	1001	CYC	C4C-C3C-CAC-CBC
31	FI	1001	CYC	NA-C4A-CHB-C1B
31	FI	1001	CYC	C3A-C4A-CHB-C1B
31	FI	1001	CYC	C4B-C3B-CAB-CBB
31	GI	1001	CYC	NA-C4A-CHB-C1B
31	GI	1001	CYC	C3A-C4A-CHB-C1B
31	GI	1001	CYC	C4B-C3B-CAB-CBB
31	GI	1001	CYC	C2C-C3C-CAC-CBC
31	GI	1001	CYC	C4C-C3C-CAC-CBC
31	HI	1001	CYC	NA-C4A-CHB-C1B
31	HI	1001	CYC	C3A-C4A-CHB-C1B
31	HI	1001	CYC	C4B-C3B-CAB-CBB
31	II	1001	CYC	NA-C4A-CHB-C1B
31	II	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	II	1001	CYC	C4B-C3B-CAB-CBB
31	II	1001	CYC	C2C-C3C-CAC-CBC
31	II	1001	CYC	C4C-C3C-CAC-CBC
31	JI	1001	CYC	NA-C4A-CHB-C1B
31	JI	1001	CYC	C3A-C4A-CHB-C1B
31	JI	1001	CYC	C4B-C3B-CAB-CBB
31	KI	1001	CYC	NA-C4A-CHB-C1B
31	KI	1001	CYC	C3A-C4A-CHB-C1B
31	KI	1001	CYC	C4B-C3B-CAB-CBB
31	KI	1001	CYC	C2C-C3C-CAC-CBC
31	KI	1001	CYC	C4C-C3C-CAC-CBC
31	LI	1001	CYC	NA-C4A-CHB-C1B
31	LI	1001	CYC	C3A-C4A-CHB-C1B
31	LI	1001	CYC	C4B-C3B-CAB-CBB
31	MI	1001	CYC	NA-C4A-CHB-C1B
31	MI	1001	CYC	C3A-C4A-CHB-C1B
31	MI	1001	CYC	C4B-C3B-CAB-CBB
31	MI	1001	CYC	C2C-C3C-CAC-CBC
31	MI	1001	CYC	C4C-C3C-CAC-CBC
31	NI	1001	CYC	NA-C4A-CHB-C1B
31	NI	1001	CYC	C3A-C4A-CHB-C1B
31	NI	1001	CYC	C4B-C3B-CAB-CBB
31	CK	1001	CYC	NA-C4A-CHB-C1B
31	CK	1001	CYC	C3A-C4A-CHB-C1B
31	DK	1001	CYC	NA-C4A-CHB-C1B
31	DK	1001	CYC	C3A-C4A-CHB-C1B
31	EK	1001	CYC	NA-C4A-CHB-C1B
31	EK	1001	CYC	C3A-C4A-CHB-C1B
31	FK	1001	CYC	NA-C4A-CHB-C1B
31	FK	1001	CYC	C3A-C4A-CHB-C1B
31	GK	1001	CYC	NA-C4A-CHB-C1B
31	GK	1001	CYC	C3A-C4A-CHB-C1B
31	HK	1001	CYC	NA-C4A-CHB-C1B
31	HK	1001	CYC	C3A-C4A-CHB-C1B
31	IK	1001	CYC	NA-C4A-CHB-C1B
31	IK	1001	CYC	C3A-C4A-CHB-C1B
31	JK	1001	CYC	NA-C4A-CHB-C1B
31	JK	1001	CYC	C3A-C4A-CHB-C1B
31	KK	1001	CYC	NA-C4A-CHB-C1B
31	KK	1001	CYC	C3A-C4A-CHB-C1B
31	LK	1001	CYC	NA-C4A-CHB-C1B
31	LK	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	MK	1001	CYC	NA-C4A-CHB-C1B
31	MK	1001	CYC	C3A-C4A-CHB-C1B
31	NK	1001	CYC	NA-C4A-CHB-C1B
31	NK	1001	CYC	C3A-C4A-CHB-C1B
31	AP	1001	CYC	ND-C1D-CHD-C4C
31	AP	1001	CYC	C2D-C1D-CHD-C4C
31	DP	1001	CYC	ND-C1D-CHD-C4C
31	DP	1001	CYC	C2D-C1D-CHD-C4C
31	CP	1001	CYC	ND-C1D-CHD-C4C
31	CP	1001	CYC	C2D-C1D-CHD-C4C
31	FP	1001	CYC	ND-C1D-CHD-C4C
31	FP	1001	CYC	C2D-C1D-CHD-C4C
31	EP	1001	CYC	ND-C1D-CHD-C4C
31	EP	1001	CYC	C2D-C1D-CHD-C4C
31	BP	1001	CYC	ND-C1D-CHD-C4C
31	BP	1001	CYC	C2D-C1D-CHD-C4C
31	GP	1001	CYC	ND-C1D-CHD-C4C
31	GP	1001	CYC	C2D-C1D-CHD-C4C
31	HP	1001	CYC	ND-C1D-CHD-C4C
31	HP	1001	CYC	C2D-C1D-CHD-C4C
31	IP	1001	CYC	ND-C1D-CHD-C4C
31	IP	1001	CYC	C2D-C1D-CHD-C4C
31	JP	1001	CYC	ND-C1D-CHD-C4C
31	JP	1001	CYC	C2D-C1D-CHD-C4C
31	KP	1001	CYC	ND-C1D-CHD-C4C
31	KP	1001	CYC	C2D-C1D-CHD-C4C
31	MP	1001	CYC	ND-C1D-CHD-C4C
31	MP	1001	CYC	C2D-C1D-CHD-C4C
31	NP	1001	CYC	ND-C1D-CHD-C4C
31	NP	1001	CYC	C2D-C1D-CHD-C4C
31	OP	1001	CYC	ND-C1D-CHD-C4C
31	OP	1001	CYC	C2D-C1D-CHD-C4C
31	PP	1001	CYC	ND-C1D-CHD-C4C
31	PP	1001	CYC	C2D-C1D-CHD-C4C
31	QP	1001	CYC	ND-C1D-CHD-C4C
31	QP	1001	CYC	C2D-C1D-CHD-C4C
31	RP	1001	CYC	ND-C1D-CHD-C4C
31	RP	1001	CYC	C2D-C1D-CHD-C4C
31	SP	1001	CYC	ND-C1D-CHD-C4C
31	SP	1001	CYC	C2D-C1D-CHD-C4C
31	TP	1001	CYC	ND-C1D-CHD-C4C
31	TP	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
31	UP	1001	CYC	ND-C1D-CHD-C4C
31	UP	1001	CYC	C2D-C1D-CHD-C4C
31	VP	1001	CYC	ND-C4D-CHA-C1A
31	VP	1001	CYC	C3D-C4D-CHA-C1A
31	VP	1001	CYC	C3A-C4A-CHB-C1B
31	VP	1001	CYC	ND-C1D-CHD-C4C
31	VP	1001	CYC	C2D-C1D-CHD-C4C
31	WP	1001	CYC	ND-C1D-CHD-C4C
31	WP	1001	CYC	C2D-C1D-CHD-C4C
31	XP	1001	CYC	ND-C1D-CHD-C4C
31	XP	1001	CYC	C2D-C1D-CHD-C4C
31	YP	1000	CYC	NA-C4A-CHB-C1B
31	YP	1000	CYC	C3A-C4A-CHB-C1B
31	YP	1000	CYC	C3D-CAD-CBD-CGD
31	cP	1001	CYC	ND-C1D-CHD-C4C
31	cP	1001	CYC	C2D-C1D-CHD-C4C
31	eP	1001	CYC	ND-C1D-CHD-C4C
31	eP	1001	CYC	C2D-C1D-CHD-C4C
31	fP	1001	CYC	ND-C1D-CHD-C4C
31	fP	1001	CYC	C2D-C1D-CHD-C4C
31	gP	1001	CYC	ND-C1D-CHD-C4C
31	gP	1001	CYC	C2D-C1D-CHD-C4C
31	hP	1001	CYC	ND-C1D-CHD-C4C
31	hP	1001	CYC	C2D-C1D-CHD-C4C
31	iP	1001	CYC	ND-C1D-CHD-C4C
31	iP	1001	CYC	C2D-C1D-CHD-C4C
31	jP	1001	CYC	ND-C1D-CHD-C4C
31	jP	1001	CYC	C2D-C1D-CHD-C4C
31	kP	1001	CYC	ND-C1D-CHD-C4C
31	kP	1001	CYC	C2D-C1D-CHD-C4C
31	lP	1001	CYC	ND-C1D-CHD-C4C
31	lP	1001	CYC	C2D-C1D-CHD-C4C
31	mP	1001	CYC	ND-C1D-CHD-C4C
31	mP	1001	CYC	C2D-C1D-CHD-C4C
31	nP	1001	CYC	ND-C1D-CHD-C4C
31	nP	1001	CYC	C2D-C1D-CHD-C4C
31	oP	1001	CYC	ND-C1D-CHD-C4C
31	oP	1001	CYC	C2D-C1D-CHD-C4C
31	pP	1001	CYC	ND-C1D-CHD-C4C
31	pP	1001	CYC	C2D-C1D-CHD-C4C
31	qP	1001	CYC	ND-C1D-CHD-C4C
31	qP	1001	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
31	rP	1001	CYC	ND-C1D-CHD-C4C
31	rP	1001	CYC	C2D-C1D-CHD-C4C
31	sP	1001	CYC	ND-C1D-CHD-C4C
31	sP	1001	CYC	C2D-C1D-CHD-C4C
31	tP	1001	CYC	ND-C1D-CHD-C4C
31	tP	1001	CYC	C2D-C1D-CHD-C4C
31	uP	1001	CYC	ND-C1D-CHD-C4C
31	uP	1001	CYC	C2D-C1D-CHD-C4C
31	vP	1001	CYC	ND-C1D-CHD-C4C
31	vP	1001	CYC	C2D-C1D-CHD-C4C
31	wP	1001	CYC	ND-C1D-CHD-C4C
31	wP	1001	CYC	C2D-C1D-CHD-C4C
31	xP	1001	CYC	ND-C4D-CHA-C1A
31	xP	1001	CYC	C3D-C4D-CHA-C1A
31	xP	1001	CYC	C3A-C4A-CHB-C1B
31	xP	1001	CYC	ND-C1D-CHD-C4C
31	xP	1001	CYC	C2D-C1D-CHD-C4C
31	yP	1001	CYC	ND-C1D-CHD-C4C
31	yP	1001	CYC	C2D-C1D-CHD-C4C
31	1P	1001	CYC	ND-C1D-CHD-C4C
31	1P	1001	CYC	C2D-C1D-CHD-C4C
31	1P	1002	CYC	NA-C4A-CHB-C1B
31	1P	1002	CYC	C3A-C4A-CHB-C1B
31	1P	1002	CYC	C3D-CAD-CBD-CGD
32	k6	301	PMS	S-C-C1-C2
32	k6	301	PMS	S-C-C1-C6
32	kH	301	PMS	S-C-C1-C2
32	kH	301	PMS	S-C-C1-C6
31	CF	1001	CYC	C2B-C3B-CAB-CBB
31	EF	1001	CYC	C2B-C3B-CAB-CBB
31	GF	1001	CYC	C2B-C3B-CAB-CBB
31	IF	1001	CYC	C2B-C3B-CAB-CBB
31	KF	1001	CYC	C2B-C3B-CAB-CBB
31	MF	1001	CYC	C2B-C3B-CAB-CBB
31	CI	1001	CYC	C2B-C3B-CAB-CBB
31	EI	1001	CYC	C2B-C3B-CAB-CBB
31	GI	1001	CYC	C2B-C3B-CAB-CBB
31	II	1001	CYC	C2B-C3B-CAB-CBB
31	KI	1001	CYC	C2B-C3B-CAB-CBB
31	MI	1001	CYC	C2B-C3B-CAB-CBB
30	yJ	302	PUB	C2D-C3D-CAD-CBD
30	yL	302	PUB	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
31	C7	1001	CYC	C2B-C3B-CAB-CBB
31	E7	1001	CYC	C2B-C3B-CAB-CBB
31	G7	1001	CYC	C2B-C3B-CAB-CBB
31	I7	1001	CYC	C2B-C3B-CAB-CBB
31	K7	1001	CYC	C2B-C3B-CAB-CBB
31	M7	1001	CYC	C2B-C3B-CAB-CBB
31	C9	1001	CYC	C2B-C3B-CAB-CBB
31	E9	1001	CYC	C2B-C3B-CAB-CBB
31	G9	1001	CYC	C2B-C3B-CAB-CBB
31	I9	1001	CYC	C2B-C3B-CAB-CBB
31	K9	1001	CYC	C2B-C3B-CAB-CBB
31	M9	1001	CYC	C2B-C3B-CAB-CBB
29	wJ	303	PEB	C2B-C3B-CAB-CBB
29	xJ	303	PEB	C2B-C3B-CAB-CBB
29	wL	303	PEB	C2B-C3B-CAB-CBB
29	xL	303	PEB	C2B-C3B-CAB-CBB
30	MG	403	PUB	C1C-C2C-CAC-CBC
30	MQ	405	PUB	C1C-C2C-CAC-CBC
30	wJ	305	PUB	C2D-C3D-CAD-CBD
30	xJ	305	PUB	C2D-C3D-CAD-CBD
30	wL	305	PUB	C2D-C3D-CAD-CBD
30	xL	305	PUB	C2D-C3D-CAD-CBD
29	P1	203	PEB	C3B-CAB-CBB-CGB
29	R1	203	PEB	C3B-CAB-CBB-CGB
29	T1	202	PEB	C3B-CAB-CBB-CGB
29	V1	203	PEB	C3B-CAB-CBB-CGB
29	Y1	202	PEB	C3B-CAB-CBB-CGB
29	a1	203	PEB	C3B-CAB-CBB-CGB
29	c1	203	PEB	C3B-CAB-CBB-CGB
29	e1	203	PEB	C3B-CAB-CBB-CGB
29	g1	203	PEB	C3B-CAB-CBB-CGB
29	i1	203	PEB	C3B-CAB-CBB-CGB
29	k1	203	PEB	C3B-CAB-CBB-CGB
29	m1	202	PEB	C3B-CAB-CBB-CGB
29	M2	201	PEB	C3B-CAB-CBB-CGB
29	O2	201	PEB	C3B-CAB-CBB-CGB
29	Q2	201	PEB	C3B-CAB-CBB-CGB
29	U2	201	PEB	C3B-CAB-CBB-CGB
29	W2	201	PEB	C3B-CAB-CBB-CGB
29	D3	202	PEB	C3B-CAB-CBB-CGB
29	M4	203	PEB	C3B-CAB-CBB-CGB
29	D7	1002	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	F7	1002	PEB	C3B-CAB-CBB-CGB
29	H7	1002	PEB	C3B-CAB-CBB-CGB
29	J7	1002	PEB	C3B-CAB-CBB-CGB
29	L7	1002	PEB	C3B-CAB-CBB-CGB
29	N7	1002	PEB	C3B-CAB-CBB-CGB
29	P7	203	PEB	C3B-CAB-CBB-CGB
29	R7	203	PEB	C3B-CAB-CBB-CGB
29	T7	203	PEB	C3B-CAB-CBB-CGB
29	V7	203	PEB	C3B-CAB-CBB-CGB
29	Y7	203	PEB	C3B-CAB-CBB-CGB
29	a7	203	PEB	C3B-CAB-CBB-CGB
29	c7	203	PEB	C3B-CAB-CBB-CGB
29	e7	203	PEB	C3B-CAB-CBB-CGB
29	g7	203	PEB	C3B-CAB-CBB-CGB
29	i7	203	PEB	C3B-CAB-CBB-CGB
29	k7	203	PEB	C3B-CAB-CBB-CGB
29	m7	203	PEB	C3B-CAB-CBB-CGB
29	D9	1002	PEB	C3B-CAB-CBB-CGB
29	F9	1002	PEB	C3B-CAB-CBB-CGB
29	H9	1002	PEB	C3B-CAB-CBB-CGB
29	J9	1002	PEB	C3B-CAB-CBB-CGB
29	L9	1002	PEB	C3B-CAB-CBB-CGB
29	N9	1002	PEB	C3B-CAB-CBB-CGB
29	P9	203	PEB	C3B-CAB-CBB-CGB
29	R9	203	PEB	C3B-CAB-CBB-CGB
29	T9	203	PEB	C3B-CAB-CBB-CGB
29	V9	203	PEB	C3B-CAB-CBB-CGB
29	Y9	203	PEB	C3B-CAB-CBB-CGB
29	a9	203	PEB	C3B-CAB-CBB-CGB
29	c9	203	PEB	C3B-CAB-CBB-CGB
29	e9	203	PEB	C3B-CAB-CBB-CGB
29	g9	203	PEB	C3B-CAB-CBB-CGB
29	i9	203	PEB	C3B-CAB-CBB-CGB
29	k9	203	PEB	C3B-CAB-CBB-CGB
29	m9	203	PEB	C3B-CAB-CBB-CGB
29	BA	201	PEB	C3B-CAB-CBB-CGB
29	BA	202	PEB	C3B-CAB-CBB-CGB
29	BA	203	PEB	C3B-CAB-CBB-CGB
29	DA	201	PEB	C3B-CAB-CBB-CGB
29	DA	202	PEB	C3B-CAB-CBB-CGB
29	DA	203	PEB	C3B-CAB-CBB-CGB
29	FA	201	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	FA	202	PEB	C3B-CAB-CBB-CGB
29	FA	203	PEB	C3B-CAB-CBB-CGB
29	HA	201	PEB	C3B-CAB-CBB-CGB
29	HA	202	PEB	C3B-CAB-CBB-CGB
29	HA	203	PEB	C3B-CAB-CBB-CGB
29	JA	201	PEB	C3B-CAB-CBB-CGB
29	JA	202	PEB	C3B-CAB-CBB-CGB
29	JA	203	PEB	C3B-CAB-CBB-CGB
29	LA	201	PEB	C3B-CAB-CBB-CGB
29	LA	202	PEB	C3B-CAB-CBB-CGB
29	LA	203	PEB	C3B-CAB-CBB-CGB
29	CB	202	PEB	C3B-CAB-CBB-CGB
29	EB	202	PEB	C3B-CAB-CBB-CGB
29	GB	202	PEB	C3B-CAB-CBB-CGB
29	IB	202	PEB	C3B-CAB-CBB-CGB
29	KB	202	PEB	C3B-CAB-CBB-CGB
29	MB	202	PEB	C3B-CAB-CBB-CGB
29	OB	202	PEB	C3B-CAB-CBB-CGB
29	QB	204	PEB	C3B-CAB-CBB-CGB
29	SB	202	PEB	C3B-CAB-CBB-CGB
29	UB	202	PEB	C3B-CAB-CBB-CGB
29	WB	202	PEB	C3B-CAB-CBB-CGB
29	YB	203	PEB	C3B-CAB-CBB-CGB
29	aB	202	PEB	C3B-CAB-CBB-CGB
29	dB	202	PEB	C3B-CAB-CBB-CGB
29	fB	202	PEB	C3B-CAB-CBB-CGB
29	hB	202	PEB	C3B-CAB-CBB-CGB
29	jB	202	PEB	C3B-CAB-CBB-CGB
29	lB	202	PEB	C3B-CAB-CBB-CGB
29	AF	301	PEB	C3B-CAB-CBB-CGB
29	BG	202	PEB	C3B-CAB-CBB-CGB
29	DG	202	PEB	C3B-CAB-CBB-CGB
29	FG	202	PEB	C3B-CAB-CBB-CGB
29	HG	202	PEB	C3B-CAB-CBB-CGB
29	JG	202	PEB	C3B-CAB-CBB-CGB
29	LG	202	PEB	C3B-CAB-CBB-CGB
29	MG	401	PEB	C3B-CAB-CBB-CGB
29	AI	301	PEB	C3B-CAB-CBB-CGB
29	wJ	302	PEB	C3B-CAB-CBB-CGB
29	wJ	303	PEB	C3B-CAB-CBB-CGB
29	xJ	302	PEB	C3B-CAB-CBB-CGB
29	xJ	303	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	PK	203	PEB	C3B-CAB-CBB-CGB
29	RK	203	PEB	C3B-CAB-CBB-CGB
29	TK	202	PEB	C3B-CAB-CBB-CGB
29	VK	203	PEB	C3B-CAB-CBB-CGB
29	YK	202	PEB	C3B-CAB-CBB-CGB
29	aK	203	PEB	C3B-CAB-CBB-CGB
29	cK	203	PEB	C3B-CAB-CBB-CGB
29	eK	203	PEB	C3B-CAB-CBB-CGB
29	gK	203	PEB	C3B-CAB-CBB-CGB
29	iK	203	PEB	C3B-CAB-CBB-CGB
29	kK	203	PEB	C3B-CAB-CBB-CGB
29	mK	202	PEB	C3B-CAB-CBB-CGB
29	wL	302	PEB	C3B-CAB-CBB-CGB
29	wL	303	PEB	C3B-CAB-CBB-CGB
29	xL	302	PEB	C3B-CAB-CBB-CGB
29	xL	303	PEB	C3B-CAB-CBB-CGB
29	CM	202	PEB	C3B-CAB-CBB-CGB
29	EM	202	PEB	C3B-CAB-CBB-CGB
29	GM	202	PEB	C3B-CAB-CBB-CGB
29	IM	202	PEB	C3B-CAB-CBB-CGB
29	KM	202	PEB	C3B-CAB-CBB-CGB
29	MM	202	PEB	C3B-CAB-CBB-CGB
29	OM	202	PEB	C3B-CAB-CBB-CGB
29	QM	204	PEB	C3B-CAB-CBB-CGB
29	SM	202	PEB	C3B-CAB-CBB-CGB
29	WM	202	PEB	C3B-CAB-CBB-CGB
29	YM	203	PEB	C3B-CAB-CBB-CGB
29	aM	202	PEB	C3B-CAB-CBB-CGB
29	dM	202	PEB	C3B-CAB-CBB-CGB
29	fM	202	PEB	C3B-CAB-CBB-CGB
29	hM	202	PEB	C3B-CAB-CBB-CGB
29	jM	202	PEB	C3B-CAB-CBB-CGB
29	lM	202	PEB	C3B-CAB-CBB-CGB
29	BN	201	PEB	C3B-CAB-CBB-CGB
29	BN	202	PEB	C3B-CAB-CBB-CGB
29	BN	203	PEB	C3B-CAB-CBB-CGB
29	DN	201	PEB	C3B-CAB-CBB-CGB
29	DN	202	PEB	C3B-CAB-CBB-CGB
29	DN	203	PEB	C3B-CAB-CBB-CGB
29	FN	201	PEB	C3B-CAB-CBB-CGB
29	FN	202	PEB	C3B-CAB-CBB-CGB
29	FN	203	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	HN	201	PEB	C3B-CAB-CBB-CGB
29	HN	202	PEB	C3B-CAB-CBB-CGB
29	HN	203	PEB	C3B-CAB-CBB-CGB
29	JN	201	PEB	C3B-CAB-CBB-CGB
29	JN	202	PEB	C3B-CAB-CBB-CGB
29	JN	203	PEB	C3B-CAB-CBB-CGB
29	LN	201	PEB	C3B-CAB-CBB-CGB
29	LN	202	PEB	C3B-CAB-CBB-CGB
29	LN	203	PEB	C3B-CAB-CBB-CGB
29	DO	202	PEB	C3B-CAB-CBB-CGB
29	BQ	202	PEB	C3B-CAB-CBB-CGB
29	DQ	202	PEB	C3B-CAB-CBB-CGB
29	FQ	202	PEB	C3B-CAB-CBB-CGB
29	HQ	202	PEB	C3B-CAB-CBB-CGB
29	JQ	202	PEB	C3B-CAB-CBB-CGB
29	LQ	201	PEB	C3B-CAB-CBB-CGB
29	MQ	401	PEB	C3B-CAB-CBB-CGB
29	MQ	403	PEB	C3B-CAB-CBB-CGB
29	MR	201	PEB	C3B-CAB-CBB-CGB
29	OR	201	PEB	C3B-CAB-CBB-CGB
29	QR	201	PEB	C3B-CAB-CBB-CGB
29	UR	201	PEB	C3B-CAB-CBB-CGB
29	WR	201	PEB	C3B-CAB-CBB-CGB
30	A7	302	PUB	C2C-CAC-CBC-CGC
30	A9	302	PUB	C2C-CAC-CBC-CGC
30	MG	402	PUB	C2C-CAC-CBC-CGC
30	MQ	404	PUB	C2C-CAC-CBC-CGC
29	BA	201	PEB	C4B-C3B-CAB-CBB
29	DA	201	PEB	C4B-C3B-CAB-CBB
29	FA	201	PEB	C4B-C3B-CAB-CBB
29	HA	201	PEB	C4B-C3B-CAB-CBB
29	JA	201	PEB	C4B-C3B-CAB-CBB
29	LA	201	PEB	C4B-C3B-CAB-CBB
29	BN	201	PEB	C4B-C3B-CAB-CBB
29	DN	201	PEB	C4B-C3B-CAB-CBB
29	FN	201	PEB	C4B-C3B-CAB-CBB
29	HN	201	PEB	C4B-C3B-CAB-CBB
29	JN	201	PEB	C4B-C3B-CAB-CBB
29	LN	201	PEB	C4B-C3B-CAB-CBB
29	A1	302	PEB	C2C-CAC-CBC-CGC
29	A1	303	PEB	C2C-CAC-CBC-CGC
29	O1	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	P1	201	PEB	C2C-CAC-CBC-CGC
29	Q1	202	PEB	C2C-CAC-CBC-CGC
29	R1	201	PEB	C2C-CAC-CBC-CGC
29	S1	202	PEB	C2C-CAC-CBC-CGC
29	T1	201	PEB	C2C-CAC-CBC-CGC
29	U1	203	PEB	C2C-CAC-CBC-CGC
29	V1	201	PEB	C2C-CAC-CBC-CGC
29	W1	202	PEB	C2C-CAC-CBC-CGC
29	Y1	201	PEB	C2C-CAC-CBC-CGC
29	Z1	203	PEB	C2C-CAC-CBC-CGC
29	a1	201	PEB	C2C-CAC-CBC-CGC
29	b1	202	PEB	C2C-CAC-CBC-CGC
29	c1	201	PEB	C2C-CAC-CBC-CGC
29	d1	202	PEB	C2C-CAC-CBC-CGC
29	e1	201	PEB	C2C-CAC-CBC-CGC
29	f1	202	PEB	C2C-CAC-CBC-CGC
29	g1	201	PEB	C2C-CAC-CBC-CGC
29	h1	202	PEB	C2C-CAC-CBC-CGC
29	i1	201	PEB	C2C-CAC-CBC-CGC
29	j1	202	PEB	C2C-CAC-CBC-CGC
29	k1	201	PEB	C2C-CAC-CBC-CGC
29	l1	202	PEB	C2C-CAC-CBC-CGC
29	m1	201	PEB	C2C-CAC-CBC-CGC
29	M2	202	PEB	C2C-CAC-CBC-CGC
29	N2	202	PEB	C2C-CAC-CBC-CGC
29	N2	203	PEB	C2C-CAC-CBC-CGC
29	O2	202	PEB	C2C-CAC-CBC-CGC
29	P2	201	PEB	C2C-CAC-CBC-CGC
29	P2	202	PEB	C2C-CAC-CBC-CGC
29	Q2	202	PEB	C2C-CAC-CBC-CGC
29	R2	202	PEB	C2C-CAC-CBC-CGC
29	R2	203	PEB	C2C-CAC-CBC-CGC
29	S2	202	PEB	C2C-CAC-CBC-CGC
29	T2	202	PEB	C2C-CAC-CBC-CGC
29	T2	203	PEB	C2C-CAC-CBC-CGC
29	U2	202	PEB	C2C-CAC-CBC-CGC
29	V2	202	PEB	C2C-CAC-CBC-CGC
29	V2	203	PEB	C2C-CAC-CBC-CGC
29	W2	202	PEB	C2C-CAC-CBC-CGC
29	X2	201	PEB	C2C-CAC-CBC-CGC
29	X2	202	PEB	C2C-CAC-CBC-CGC
29	D3	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	B5	203	PEB	C2C-CAC-CBC-CGC
29	F5	203	PEB	C2C-CAC-CBC-CGC
29	G5	203	PEB	C2C-CAC-CBC-CGC
29	H5	203	PEB	C2C-CAC-CBC-CGC
29	I5	202	PEB	C2C-CAC-CBC-CGC
29	K5	202	PEB	C2C-CAC-CBC-CGC
29	L5	203	PEB	C2C-CAC-CBC-CGC
29	A5	202	PEB	C2C-CAC-CBC-CGC
29	C5	202	PEB	C2C-CAC-CBC-CGC
29	A7	304	PEB	C2C-CAC-CBC-CGC
29	B8	203	PEB	C2C-CAC-CBC-CGC
29	F8	203	PEB	C2C-CAC-CBC-CGC
29	G8	203	PEB	C2C-CAC-CBC-CGC
29	H8	203	PEB	C2C-CAC-CBC-CGC
29	I8	202	PEB	C2C-CAC-CBC-CGC
29	K8	202	PEB	C2C-CAC-CBC-CGC
29	L8	203	PEB	C2C-CAC-CBC-CGC
29	A8	202	PEB	C2C-CAC-CBC-CGC
29	C8	202	PEB	C2C-CAC-CBC-CGC
29	A9	304	PEB	C2C-CAC-CBC-CGC
29	AA	202	PEB	C2C-CAC-CBC-CGC
29	CA	202	PEB	C2C-CAC-CBC-CGC
29	EA	202	PEB	C2C-CAC-CBC-CGC
29	GA	202	PEB	C2C-CAC-CBC-CGC
29	IA	202	PEB	C2C-CAC-CBC-CGC
29	KA	202	PEB	C2C-CAC-CBC-CGC
29	DB	203	PEB	C2C-CAC-CBC-CGC
29	FB	203	PEB	C2C-CAC-CBC-CGC
29	HB	203	PEB	C2C-CAC-CBC-CGC
29	JB	203	PEB	C2C-CAC-CBC-CGC
29	LB	203	PEB	C2C-CAC-CBC-CGC
29	NB	202	PEB	C2C-CAC-CBC-CGC
29	PB	202	PEB	C2C-CAC-CBC-CGC
29	RB	203	PEB	C2C-CAC-CBC-CGC
29	TB	203	PEB	C2C-CAC-CBC-CGC
29	VB	203	PEB	C2C-CAC-CBC-CGC
29	XB	202	PEB	C2C-CAC-CBC-CGC
29	ZB	203	PEB	C2C-CAC-CBC-CGC
29	cB	203	PEB	C2C-CAC-CBC-CGC
29	eB	202	PEB	C2C-CAC-CBC-CGC
29	gB	203	PEB	C2C-CAC-CBC-CGC
29	iB	203	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	kB	203	PEB	C2C-CAC-CBC-CGC
29	mB	203	PEB	C2C-CAC-CBC-CGC
29	AC	201	PEB	C2C-CAC-CBC-CGC
29	AC	202	PEB	C2C-CAC-CBC-CGC
29	BC	203	PEB	C2C-CAC-CBC-CGC
29	CC	201	PEB	C2C-CAC-CBC-CGC
29	CC	202	PEB	C2C-CAC-CBC-CGC
29	DC	202	PEB	C2C-CAC-CBC-CGC
29	EC	201	PEB	C2C-CAC-CBC-CGC
29	EC	202	PEB	C2C-CAC-CBC-CGC
29	FC	203	PEB	C2C-CAC-CBC-CGC
29	GC	201	PEB	C2C-CAC-CBC-CGC
29	GC	202	PEB	C2C-CAC-CBC-CGC
29	HC	203	PEB	C2C-CAC-CBC-CGC
29	IC	201	PEB	C2C-CAC-CBC-CGC
29	IC	202	PEB	C2C-CAC-CBC-CGC
29	JC	202	PEB	C2C-CAC-CBC-CGC
29	KC	202	PEB	C2C-CAC-CBC-CGC
29	KC	203	PEB	C2C-CAC-CBC-CGC
29	LC	203	PEB	C2C-CAC-CBC-CGC
29	AE	201	PEB	C2C-CAC-CBC-CGC
29	AE	202	PEB	C2C-CAC-CBC-CGC
29	BE	203	PEB	C2C-CAC-CBC-CGC
29	CE	201	PEB	C2C-CAC-CBC-CGC
29	CE	202	PEB	C2C-CAC-CBC-CGC
29	DE	202	PEB	C2C-CAC-CBC-CGC
29	EE	201	PEB	C2C-CAC-CBC-CGC
29	EE	202	PEB	C2C-CAC-CBC-CGC
29	FE	203	PEB	C2C-CAC-CBC-CGC
29	GE	201	PEB	C2C-CAC-CBC-CGC
29	GE	202	PEB	C2C-CAC-CBC-CGC
29	HE	203	PEB	C2C-CAC-CBC-CGC
29	IE	201	PEB	C2C-CAC-CBC-CGC
29	IE	202	PEB	C2C-CAC-CBC-CGC
29	JE	202	PEB	C2C-CAC-CBC-CGC
29	KE	202	PEB	C2C-CAC-CBC-CGC
29	KE	203	PEB	C2C-CAC-CBC-CGC
29	LE	203	PEB	C2C-CAC-CBC-CGC
29	AG	201	PEB	C2C-CAC-CBC-CGC
29	BG	202	PEB	C2C-CAC-CBC-CGC
29	BG	203	PEB	C2C-CAC-CBC-CGC
29	CG	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	DG	202	PEB	C2C-CAC-CBC-CGC
29	DG	203	PEB	C2C-CAC-CBC-CGC
29	EG	201	PEB	C2C-CAC-CBC-CGC
29	FG	202	PEB	C2C-CAC-CBC-CGC
29	FG	203	PEB	C2C-CAC-CBC-CGC
29	GG	201	PEB	C2C-CAC-CBC-CGC
29	HG	202	PEB	C2C-CAC-CBC-CGC
29	HG	203	PEB	C2C-CAC-CBC-CGC
29	IG	201	PEB	C2C-CAC-CBC-CGC
29	JG	202	PEB	C2C-CAC-CBC-CGC
29	JG	203	PEB	C2C-CAC-CBC-CGC
29	KG	201	PEB	C2C-CAC-CBC-CGC
29	LG	202	PEB	C2C-CAC-CBC-CGC
29	LG	203	PEB	C2C-CAC-CBC-CGC
29	BJ	203	PEB	C2C-CAC-CBC-CGC
29	DJ	202	PEB	C2C-CAC-CBC-CGC
29	FJ	203	PEB	C2C-CAC-CBC-CGC
29	HJ	202	PEB	C2C-CAC-CBC-CGC
29	JJ	203	PEB	C2C-CAC-CBC-CGC
29	LJ	202	PEB	C2C-CAC-CBC-CGC
29	NJ	203	PEB	C2C-CAC-CBC-CGC
29	PJ	203	PEB	C2C-CAC-CBC-CGC
29	RJ	203	PEB	C2C-CAC-CBC-CGC
29	TJ	203	PEB	C2C-CAC-CBC-CGC
29	VJ	202	PEB	C2C-CAC-CBC-CGC
29	XJ	203	PEB	C2C-CAC-CBC-CGC
29	ZJ	203	PEB	C2C-CAC-CBC-CGC
29	bJ	203	PEB	C2C-CAC-CBC-CGC
29	dJ	203	PEB	C2C-CAC-CBC-CGC
29	fJ	203	PEB	C2C-CAC-CBC-CGC
29	hJ	203	PEB	C2C-CAC-CBC-CGC
29	jJ	203	PEB	C2C-CAC-CBC-CGC
29	lJ	203	PEB	C2C-CAC-CBC-CGC
29	nJ	203	PEB	C2C-CAC-CBC-CGC
29	pJ	203	PEB	C2C-CAC-CBC-CGC
29	rJ	203	PEB	C2C-CAC-CBC-CGC
29	tJ	202	PEB	C2C-CAC-CBC-CGC
29	vJ	202	PEB	C2C-CAC-CBC-CGC
29	AK	302	PEB	C2C-CAC-CBC-CGC
29	AK	303	PEB	C2C-CAC-CBC-CGC
29	OK	202	PEB	C2C-CAC-CBC-CGC
29	PK	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	QK	202	PEB	C2C-CAC-CBC-CGC
29	RK	201	PEB	C2C-CAC-CBC-CGC
29	SK	202	PEB	C2C-CAC-CBC-CGC
29	TK	201	PEB	C2C-CAC-CBC-CGC
29	UK	203	PEB	C2C-CAC-CBC-CGC
29	VK	201	PEB	C2C-CAC-CBC-CGC
29	WK	202	PEB	C2C-CAC-CBC-CGC
29	YK	201	PEB	C2C-CAC-CBC-CGC
29	ZK	203	PEB	C2C-CAC-CBC-CGC
29	aK	201	PEB	C2C-CAC-CBC-CGC
29	bK	202	PEB	C2C-CAC-CBC-CGC
29	cK	201	PEB	C2C-CAC-CBC-CGC
29	dK	202	PEB	C2C-CAC-CBC-CGC
29	eK	201	PEB	C2C-CAC-CBC-CGC
29	fK	202	PEB	C2C-CAC-CBC-CGC
29	gK	201	PEB	C2C-CAC-CBC-CGC
29	hK	202	PEB	C2C-CAC-CBC-CGC
29	iK	201	PEB	C2C-CAC-CBC-CGC
29	jK	202	PEB	C2C-CAC-CBC-CGC
29	kK	201	PEB	C2C-CAC-CBC-CGC
29	lK	202	PEB	C2C-CAC-CBC-CGC
29	mK	201	PEB	C2C-CAC-CBC-CGC
29	BL	203	PEB	C2C-CAC-CBC-CGC
29	DL	202	PEB	C2C-CAC-CBC-CGC
29	FL	203	PEB	C2C-CAC-CBC-CGC
29	HL	202	PEB	C2C-CAC-CBC-CGC
29	JL	203	PEB	C2C-CAC-CBC-CGC
29	LL	202	PEB	C2C-CAC-CBC-CGC
29	NL	203	PEB	C2C-CAC-CBC-CGC
29	PL	203	PEB	C2C-CAC-CBC-CGC
29	RL	203	PEB	C2C-CAC-CBC-CGC
29	TL	203	PEB	C2C-CAC-CBC-CGC
29	VL	202	PEB	C2C-CAC-CBC-CGC
29	XL	203	PEB	C2C-CAC-CBC-CGC
29	ZL	203	PEB	C2C-CAC-CBC-CGC
29	bL	203	PEB	C2C-CAC-CBC-CGC
29	dL	203	PEB	C2C-CAC-CBC-CGC
29	fL	203	PEB	C2C-CAC-CBC-CGC
29	hL	203	PEB	C2C-CAC-CBC-CGC
29	jL	203	PEB	C2C-CAC-CBC-CGC
29	lL	203	PEB	C2C-CAC-CBC-CGC
29	nL	203	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	pL	203	PEB	C2C-CAC-CBC-CGC
29	rL	203	PEB	C2C-CAC-CBC-CGC
29	tL	202	PEB	C2C-CAC-CBC-CGC
29	vL	202	PEB	C2C-CAC-CBC-CGC
29	DM	203	PEB	C2C-CAC-CBC-CGC
29	FM	203	PEB	C2C-CAC-CBC-CGC
29	HM	203	PEB	C2C-CAC-CBC-CGC
29	JM	203	PEB	C2C-CAC-CBC-CGC
29	LM	203	PEB	C2C-CAC-CBC-CGC
29	NM	202	PEB	C2C-CAC-CBC-CGC
29	PM	202	PEB	C2C-CAC-CBC-CGC
29	RM	203	PEB	C2C-CAC-CBC-CGC
29	TM	203	PEB	C2C-CAC-CBC-CGC
29	VM	203	PEB	C2C-CAC-CBC-CGC
29	XM	202	PEB	C2C-CAC-CBC-CGC
29	ZM	203	PEB	C2C-CAC-CBC-CGC
29	cM	203	PEB	C2C-CAC-CBC-CGC
29	eM	202	PEB	C2C-CAC-CBC-CGC
29	gM	203	PEB	C2C-CAC-CBC-CGC
29	iM	203	PEB	C2C-CAC-CBC-CGC
29	kM	203	PEB	C2C-CAC-CBC-CGC
29	mM	203	PEB	C2C-CAC-CBC-CGC
29	AN	202	PEB	C2C-CAC-CBC-CGC
29	CN	202	PEB	C2C-CAC-CBC-CGC
29	EN	202	PEB	C2C-CAC-CBC-CGC
29	GN	202	PEB	C2C-CAC-CBC-CGC
29	IN	202	PEB	C2C-CAC-CBC-CGC
29	KN	202	PEB	C2C-CAC-CBC-CGC
29	DO	202	PEB	C2C-CAC-CBC-CGC
29	AQ	201	PEB	C2C-CAC-CBC-CGC
29	BQ	202	PEB	C2C-CAC-CBC-CGC
29	BQ	203	PEB	C2C-CAC-CBC-CGC
29	CQ	201	PEB	C2C-CAC-CBC-CGC
29	DQ	202	PEB	C2C-CAC-CBC-CGC
29	DQ	203	PEB	C2C-CAC-CBC-CGC
29	EQ	201	PEB	C2C-CAC-CBC-CGC
29	FQ	202	PEB	C2C-CAC-CBC-CGC
29	FQ	203	PEB	C2C-CAC-CBC-CGC
29	GQ	201	PEB	C2C-CAC-CBC-CGC
29	HQ	202	PEB	C2C-CAC-CBC-CGC
29	HQ	203	PEB	C2C-CAC-CBC-CGC
29	IQ	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	JQ	202	PEB	C2C-CAC-CBC-CGC
29	JQ	203	PEB	C2C-CAC-CBC-CGC
29	KQ	201	PEB	C2C-CAC-CBC-CGC
29	LQ	201	PEB	C2C-CAC-CBC-CGC
29	LQ	202	PEB	C2C-CAC-CBC-CGC
29	NR	202	PEB	C2C-CAC-CBC-CGC
29	NR	203	PEB	C2C-CAC-CBC-CGC
29	PR	201	PEB	C2C-CAC-CBC-CGC
29	PR	202	PEB	C2C-CAC-CBC-CGC
29	QR	202	PEB	C2C-CAC-CBC-CGC
29	RR	202	PEB	C2C-CAC-CBC-CGC
29	RR	203	PEB	C2C-CAC-CBC-CGC
29	SR	202	PEB	C2C-CAC-CBC-CGC
29	TR	202	PEB	C2C-CAC-CBC-CGC
29	TR	203	PEB	C2C-CAC-CBC-CGC
29	UR	202	PEB	C2C-CAC-CBC-CGC
29	VR	202	PEB	C2C-CAC-CBC-CGC
29	VR	203	PEB	C2C-CAC-CBC-CGC
29	WR	202	PEB	C2C-CAC-CBC-CGC
29	XR	202	PEB	C2C-CAC-CBC-CGC
29	XR	203	PEB	C2C-CAC-CBC-CGC
30	A7	303	PUB	C3B-CAB-CBB-CGB
30	A9	303	PUB	C3B-CAB-CBB-CGB
30	MG	402	PUB	C3B-CAB-CBB-CGB
30	MQ	404	PUB	C3B-CAB-CBB-CGB
30	BB	302	PUB	C4D-C3D-CAD-CBD
30	wJ	305	PUB	C4D-C3D-CAD-CBD
30	xJ	305	PUB	C4D-C3D-CAD-CBD
30	wL	305	PUB	C4D-C3D-CAD-CBD
30	xL	305	PUB	C4D-C3D-CAD-CBD
30	BM	302	PUB	C4D-C3D-CAD-CBD
31	C7	1001	CYC	C4B-C3B-CAB-CBB
31	E7	1001	CYC	C4B-C3B-CAB-CBB
31	G7	1001	CYC	C4B-C3B-CAB-CBB
31	I7	1001	CYC	C4B-C3B-CAB-CBB
31	K7	1001	CYC	C4B-C3B-CAB-CBB
31	M7	1001	CYC	C4B-C3B-CAB-CBB
31	C9	1001	CYC	C4B-C3B-CAB-CBB
31	E9	1001	CYC	C4B-C3B-CAB-CBB
31	G9	1001	CYC	C4B-C3B-CAB-CBB
31	I9	1001	CYC	C4B-C3B-CAB-CBB
31	K9	1001	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
31	M9	1001	CYC	C4B-C3B-CAB-CBB
29	BA	201	PEB	C2B-C3B-CAB-CBB
29	DA	201	PEB	C2B-C3B-CAB-CBB
29	FA	201	PEB	C2B-C3B-CAB-CBB
29	HA	201	PEB	C2B-C3B-CAB-CBB
29	JA	201	PEB	C2B-C3B-CAB-CBB
29	LA	201	PEB	C2B-C3B-CAB-CBB
29	BN	201	PEB	C2B-C3B-CAB-CBB
29	DN	201	PEB	C2B-C3B-CAB-CBB
29	FN	201	PEB	C2B-C3B-CAB-CBB
29	HN	201	PEB	C2B-C3B-CAB-CBB
29	JN	201	PEB	C2B-C3B-CAB-CBB
29	LN	201	PEB	C2B-C3B-CAB-CBB
31	FF	1001	CYC	C2B-C3B-CAB-CBB
31	FI	1001	CYC	C2B-C3B-CAB-CBB
31	DF	1001	CYC	C2B-C3B-CAB-CBB
31	HF	1001	CYC	C2B-C3B-CAB-CBB
31	JF	1001	CYC	C2B-C3B-CAB-CBB
31	NF	1001	CYC	C2B-C3B-CAB-CBB
31	DI	1001	CYC	C2B-C3B-CAB-CBB
31	HI	1001	CYC	C2B-C3B-CAB-CBB
31	JI	1001	CYC	C2B-C3B-CAB-CBB
31	NI	1001	CYC	C2B-C3B-CAB-CBB
29	A1	301	PEB	C3B-CAB-CBB-CGB
29	W1	202	PEB	C3B-CAB-CBB-CGB
29	Z1	203	PEB	C3B-CAB-CBB-CGB
29	f1	202	PEB	C3B-CAB-CBB-CGB
29	h1	202	PEB	C3B-CAB-CBB-CGB
29	A7	305	PEB	C3B-CAB-CBB-CGB
29	A9	305	PEB	C3B-CAB-CBB-CGB
29	AB	301	PEB	C3B-CAB-CBB-CGB
29	AC	202	PEB	C3B-CAB-CBB-CGB
29	CC	202	PEB	C3B-CAB-CBB-CGB
29	EC	202	PEB	C3B-CAB-CBB-CGB
29	GC	202	PEB	C3B-CAB-CBB-CGB
29	IC	202	PEB	C3B-CAB-CBB-CGB
29	KC	203	PEB	C3B-CAB-CBB-CGB
29	AE	202	PEB	C3B-CAB-CBB-CGB
29	CE	202	PEB	C3B-CAB-CBB-CGB
29	EE	202	PEB	C3B-CAB-CBB-CGB
29	GE	202	PEB	C3B-CAB-CBB-CGB
29	IE	202	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	KE	203	PEB	C3B-CAB-CBB-CGB
29	BG	203	PEB	C3B-CAB-CBB-CGB
29	DG	203	PEB	C3B-CAB-CBB-CGB
29	FG	203	PEB	C3B-CAB-CBB-CGB
29	HG	203	PEB	C3B-CAB-CBB-CGB
29	JG	203	PEB	C3B-CAB-CBB-CGB
29	LG	203	PEB	C3B-CAB-CBB-CGB
29	wJ	301	PEB	C3B-CAB-CBB-CGB
29	xJ	301	PEB	C3B-CAB-CBB-CGB
29	yJ	301	PEB	C3B-CAB-CBB-CGB
29	AK	301	PEB	C3B-CAB-CBB-CGB
29	WK	202	PEB	C3B-CAB-CBB-CGB
29	ZK	203	PEB	C3B-CAB-CBB-CGB
29	fK	202	PEB	C3B-CAB-CBB-CGB
29	hK	202	PEB	C3B-CAB-CBB-CGB
29	wL	301	PEB	C3B-CAB-CBB-CGB
29	xL	301	PEB	C3B-CAB-CBB-CGB
29	yL	301	PEB	C3B-CAB-CBB-CGB
29	AM	301	PEB	C3B-CAB-CBB-CGB
29	BQ	203	PEB	C3B-CAB-CBB-CGB
29	DQ	203	PEB	C3B-CAB-CBB-CGB
29	FQ	203	PEB	C3B-CAB-CBB-CGB
29	HQ	203	PEB	C3B-CAB-CBB-CGB
29	JQ	203	PEB	C3B-CAB-CBB-CGB
29	LQ	202	PEB	C3B-CAB-CBB-CGB
29	OR	202	PEB	C3B-CAB-CBB-CGB
31	AP	1001	CYC	C2A-CAA-CBA-CGA
31	CP	1001	CYC	C2A-CAA-CBA-CGA
31	EP	1001	CYC	C2A-CAA-CBA-CGA
31	GP	1001	CYC	C2A-CAA-CBA-CGA
31	JP	1001	CYC	C2A-CAA-CBA-CGA
31	KP	1001	CYC	C2A-CAA-CBA-CGA
31	NP	1001	CYC	C2A-CAA-CBA-CGA
31	PP	1001	CYC	C2A-CAA-CBA-CGA
31	RP	1001	CYC	C2A-CAA-CBA-CGA
31	TP	1001	CYC	C2A-CAA-CBA-CGA
31	VP	1001	CYC	NA-C4A-CHB-C1B
31	cP	1001	CYC	C2A-CAA-CBA-CGA
31	eP	1001	CYC	C2A-CAA-CBA-CGA
31	gP	1001	CYC	C2A-CAA-CBA-CGA
31	iP	1001	CYC	C2A-CAA-CBA-CGA
31	lP	1001	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
31	mP	1001	CYC	C2A-CAA-CBA-CGA
31	pP	1001	CYC	C2A-CAA-CBA-CGA
31	rP	1001	CYC	C2A-CAA-CBA-CGA
31	tP	1001	CYC	C2A-CAA-CBA-CGA
31	vP	1001	CYC	C2A-CAA-CBA-CGA
31	xP	1001	CYC	NA-C4A-CHB-C1B
31	LF	1001	CYC	C2B-C3B-CAB-CBB
31	LI	1001	CYC	C2B-C3B-CAB-CBB
30	MG	402	PUB	C4A-C3A-CAA-CBA
30	MQ	404	PUB	C4A-C3A-CAA-CBA
31	D1	1003	CYC	C2B-C3B-CAB-CBB
31	IK	1001	CYC	C2B-C3B-CAB-CBB
31	D7	1001	CYC	C2B-C3B-CAB-CBB
31	F7	1001	CYC	C2B-C3B-CAB-CBB
31	N7	1001	CYC	C2B-C3B-CAB-CBB
31	D9	1001	CYC	C2B-C3B-CAB-CBB
31	F9	1001	CYC	C2B-C3B-CAB-CBB
31	N9	1001	CYC	C2B-C3B-CAB-CBB
29	O1	202	PEB	C3B-CAB-CBB-CGB
29	Q1	202	PEB	C3B-CAB-CBB-CGB
29	S1	202	PEB	C3B-CAB-CBB-CGB
29	U1	203	PEB	C3B-CAB-CBB-CGB
29	b1	202	PEB	C3B-CAB-CBB-CGB
29	d1	202	PEB	C3B-CAB-CBB-CGB
29	j1	202	PEB	C3B-CAB-CBB-CGB
29	l1	202	PEB	C3B-CAB-CBB-CGB
29	J5	201	PEB	NB-C1B-CHA-C4A
29	J8	201	PEB	NB-C1B-CHA-C4A
29	MA	405	PEB	NB-C1B-CHA-C4A
29	AF	304	PEB	C3B-CAB-CBB-CGB
29	DF	1002	PEB	C3B-CAB-CBB-CGB
29	FF	1002	PEB	C3B-CAB-CBB-CGB
29	HF	1002	PEB	C3B-CAB-CBB-CGB
29	JF	1002	PEB	C3B-CAB-CBB-CGB
29	LF	1002	PEB	C3B-CAB-CBB-CGB
29	NF	1002	PEB	C3B-CAB-CBB-CGB
29	AG	201	PEB	C3B-CAB-CBB-CGB
29	CG	201	PEB	C3B-CAB-CBB-CGB
29	EG	201	PEB	C3B-CAB-CBB-CGB
29	GG	201	PEB	C3B-CAB-CBB-CGB
29	IG	201	PEB	C3B-CAB-CBB-CGB
29	KG	201	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	AI	304	PEB	C3B-CAB-CBB-CGB
29	DI	1002	PEB	C3B-CAB-CBB-CGB
29	FI	1002	PEB	C3B-CAB-CBB-CGB
29	HI	1002	PEB	C3B-CAB-CBB-CGB
29	JI	1002	PEB	C3B-CAB-CBB-CGB
29	LI	1002	PEB	C3B-CAB-CBB-CGB
29	NI	1002	PEB	C3B-CAB-CBB-CGB
29	OK	202	PEB	C3B-CAB-CBB-CGB
29	QK	202	PEB	C3B-CAB-CBB-CGB
29	SK	202	PEB	C3B-CAB-CBB-CGB
29	UK	203	PEB	C3B-CAB-CBB-CGB
29	bK	202	PEB	C3B-CAB-CBB-CGB
29	dK	202	PEB	C3B-CAB-CBB-CGB
29	jK	202	PEB	C3B-CAB-CBB-CGB
29	lK	202	PEB	C3B-CAB-CBB-CGB
29	MN	405	PEB	NB-C1B-CHA-C4A
29	AQ	201	PEB	C3B-CAB-CBB-CGB
29	CQ	201	PEB	C3B-CAB-CBB-CGB
29	EQ	201	PEB	C3B-CAB-CBB-CGB
29	GQ	201	PEB	C3B-CAB-CBB-CGB
29	IQ	201	PEB	C3B-CAB-CBB-CGB
29	KQ	201	PEB	C3B-CAB-CBB-CGB
31	AP	1001	CYC	NA-C4A-CHB-C1B
31	DP	1001	CYC	NA-C4A-CHB-C1B
31	DP	1001	CYC	C2A-CAA-CBA-CGA
31	CP	1001	CYC	NA-C4A-CHB-C1B
31	FP	1001	CYC	NA-C4A-CHB-C1B
31	FP	1001	CYC	C2A-CAA-CBA-CGA
31	EP	1001	CYC	NA-C4A-CHB-C1B
31	BP	1001	CYC	NA-C4A-CHB-C1B
31	BP	1001	CYC	C2A-CAA-CBA-CGA
31	GP	1001	CYC	NA-C4A-CHB-C1B
31	HP	1001	CYC	NA-C4A-CHB-C1B
31	HP	1001	CYC	C2A-CAA-CBA-CGA
31	IP	1001	CYC	NA-C4A-CHB-C1B
31	IP	1001	CYC	C2A-CAA-CBA-CGA
31	JP	1001	CYC	NA-C4A-CHB-C1B
31	KP	1001	CYC	NA-C4A-CHB-C1B
31	MP	1001	CYC	NA-C4A-CHB-C1B
31	MP	1001	CYC	C2A-CAA-CBA-CGA
31	NP	1001	CYC	NA-C4A-CHB-C1B
31	OP	1001	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	OP	1001	CYC	C2A-CAA-CBA-CGA
31	PP	1001	CYC	NA-C4A-CHB-C1B
31	QP	1001	CYC	NA-C4A-CHB-C1B
31	QP	1001	CYC	C2A-CAA-CBA-CGA
31	RP	1001	CYC	NA-C4A-CHB-C1B
31	SP	1001	CYC	NA-C4A-CHB-C1B
31	SP	1001	CYC	C2A-CAA-CBA-CGA
31	TP	1001	CYC	NA-C4A-CHB-C1B
31	UP	1001	CYC	NA-C4A-CHB-C1B
31	UP	1001	CYC	C2A-CAA-CBA-CGA
31	WP	1001	CYC	NA-C4A-CHB-C1B
31	XP	1001	CYC	NA-C4A-CHB-C1B
31	XP	1001	CYC	C2A-CAA-CBA-CGA
31	cP	1001	CYC	NA-C4A-CHB-C1B
31	eP	1001	CYC	NA-C4A-CHB-C1B
31	fP	1001	CYC	NA-C4A-CHB-C1B
31	fP	1001	CYC	C2A-CAA-CBA-CGA
31	gP	1001	CYC	NA-C4A-CHB-C1B
31	hP	1001	CYC	NA-C4A-CHB-C1B
31	hP	1001	CYC	C2A-CAA-CBA-CGA
31	iP	1001	CYC	NA-C4A-CHB-C1B
31	jP	1001	CYC	NA-C4A-CHB-C1B
31	jP	1001	CYC	C2A-CAA-CBA-CGA
31	kP	1001	CYC	NA-C4A-CHB-C1B
31	kP	1001	CYC	C2A-CAA-CBA-CGA
31	lP	1001	CYC	NA-C4A-CHB-C1B
31	mP	1001	CYC	NA-C4A-CHB-C1B
31	nP	1001	CYC	NA-C4A-CHB-C1B
31	nP	1001	CYC	C2A-CAA-CBA-CGA
31	oP	1001	CYC	NA-C4A-CHB-C1B
31	oP	1001	CYC	C2A-CAA-CBA-CGA
31	pP	1001	CYC	NA-C4A-CHB-C1B
31	qP	1001	CYC	NA-C4A-CHB-C1B
31	qP	1001	CYC	C2A-CAA-CBA-CGA
31	rP	1001	CYC	NA-C4A-CHB-C1B
31	sP	1001	CYC	NA-C4A-CHB-C1B
31	sP	1001	CYC	C2A-CAA-CBA-CGA
31	tP	1001	CYC	NA-C4A-CHB-C1B
31	uP	1001	CYC	NA-C4A-CHB-C1B
31	uP	1001	CYC	C2A-CAA-CBA-CGA
31	vP	1001	CYC	NA-C4A-CHB-C1B
31	wP	1001	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	wP	1001	CYC	C2A-CAA-CBA-CGA
31	yP	1001	CYC	NA-C4A-CHB-C1B
31	1P	1001	CYC	NA-C4A-CHB-C1B
31	1P	1001	CYC	C2A-CAA-CBA-CGA
31	C1	1001	CYC	C2B-C3B-CAB-CBB
31	I1	1001	CYC	C2B-C3B-CAB-CBB
31	K1	1001	CYC	C2B-C3B-CAB-CBB
31	M1	1001	CYC	C2B-C3B-CAB-CBB
31	H7	1001	CYC	C2B-C3B-CAB-CBB
31	J7	1001	CYC	C2B-C3B-CAB-CBB
31	L7	1001	CYC	C2B-C3B-CAB-CBB
31	H9	1001	CYC	C2B-C3B-CAB-CBB
31	J9	1001	CYC	C2B-C3B-CAB-CBB
31	L9	1001	CYC	C2B-C3B-CAB-CBB
31	CK	1001	CYC	C2B-C3B-CAB-CBB
31	EK	1001	CYC	C2B-C3B-CAB-CBB
31	GK	1001	CYC	C2B-C3B-CAB-CBB
31	KK	1001	CYC	C2B-C3B-CAB-CBB
31	MK	1001	CYC	C2B-C3B-CAB-CBB
31	E1	1001	CYC	C2B-C3B-CAB-CBB
29	MA	405	PEB	C2B-C1B-CHA-C4A
29	MN	405	PEB	C2B-C1B-CHA-C4A
31	D7	1001	CYC	C3A-C4A-CHB-C1B
31	F7	1001	CYC	C3A-C4A-CHB-C1B
31	H7	1001	CYC	C3A-C4A-CHB-C1B
31	J7	1001	CYC	C3A-C4A-CHB-C1B
31	L7	1001	CYC	C3A-C4A-CHB-C1B
31	N7	1001	CYC	C3A-C4A-CHB-C1B
31	D9	1001	CYC	C3A-C4A-CHB-C1B
31	F9	1001	CYC	C3A-C4A-CHB-C1B
31	H9	1001	CYC	C3A-C4A-CHB-C1B
31	J9	1001	CYC	C3A-C4A-CHB-C1B
31	L9	1001	CYC	C3A-C4A-CHB-C1B
31	N9	1001	CYC	C3A-C4A-CHB-C1B
31	AP	1001	CYC	C3A-C4A-CHB-C1B
31	DP	1001	CYC	C3A-C4A-CHB-C1B
31	CP	1001	CYC	C3A-C4A-CHB-C1B
31	FP	1001	CYC	C3A-C4A-CHB-C1B
31	EP	1001	CYC	C3A-C4A-CHB-C1B
31	BP	1001	CYC	C3A-C4A-CHB-C1B
31	GP	1001	CYC	C3A-C4A-CHB-C1B
31	HP	1001	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
31	IP	1001	CYC	C3A-C4A-CHB-C1B
31	JP	1001	CYC	C3A-C4A-CHB-C1B
31	KP	1001	CYC	C3A-C4A-CHB-C1B
31	MP	1001	CYC	C3A-C4A-CHB-C1B
31	NP	1001	CYC	C3A-C4A-CHB-C1B
31	OP	1001	CYC	C3A-C4A-CHB-C1B
31	PP	1001	CYC	C3A-C4A-CHB-C1B
31	QP	1001	CYC	C3A-C4A-CHB-C1B
31	RP	1001	CYC	C3A-C4A-CHB-C1B
31	SP	1001	CYC	C3A-C4A-CHB-C1B
31	TP	1001	CYC	C3A-C4A-CHB-C1B
31	UP	1001	CYC	C3A-C4A-CHB-C1B
31	WP	1001	CYC	C3A-C4A-CHB-C1B
31	XP	1001	CYC	C3A-C4A-CHB-C1B
31	cP	1001	CYC	C3A-C4A-CHB-C1B
31	eP	1001	CYC	C3A-C4A-CHB-C1B
31	fP	1001	CYC	C3A-C4A-CHB-C1B
31	gP	1001	CYC	C3A-C4A-CHB-C1B
31	hP	1001	CYC	C3A-C4A-CHB-C1B
31	iP	1001	CYC	C3A-C4A-CHB-C1B
31	jP	1001	CYC	C3A-C4A-CHB-C1B
31	kP	1001	CYC	C3A-C4A-CHB-C1B
31	lP	1001	CYC	C3A-C4A-CHB-C1B
31	mP	1001	CYC	C3A-C4A-CHB-C1B
31	nP	1001	CYC	C3A-C4A-CHB-C1B
31	oP	1001	CYC	C3A-C4A-CHB-C1B
31	pP	1001	CYC	C3A-C4A-CHB-C1B
31	qP	1001	CYC	C3A-C4A-CHB-C1B
31	rP	1001	CYC	C3A-C4A-CHB-C1B
31	sP	1001	CYC	C3A-C4A-CHB-C1B
31	tP	1001	CYC	C3A-C4A-CHB-C1B
31	uP	1001	CYC	C3A-C4A-CHB-C1B
31	vP	1001	CYC	C3A-C4A-CHB-C1B
31	wP	1001	CYC	C3A-C4A-CHB-C1B
31	yP	1001	CYC	C3A-C4A-CHB-C1B
31	1P	1001	CYC	C3A-C4A-CHB-C1B
29	B3	201	PEB	C2C-CAC-CBC-CGC
29	D3	201	PEB	C2C-CAC-CBC-CGC
29	F3	201	PEB	C2C-CAC-CBC-CGC
29	H3	201	PEB	C2C-CAC-CBC-CGC
29	J3	201	PEB	C2C-CAC-CBC-CGC
29	L3	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	M3	202	PEB	C2C-CAC-CBC-CGC
29	N3	202	PEB	C2C-CAC-CBC-CGC
29	BO	201	PEB	C2C-CAC-CBC-CGC
29	DO	201	PEB	C2C-CAC-CBC-CGC
29	FO	201	PEB	C2C-CAC-CBC-CGC
29	HO	201	PEB	C2C-CAC-CBC-CGC
29	JO	201	PEB	C2C-CAC-CBC-CGC
29	LO	201	PEB	C2C-CAC-CBC-CGC
29	MO	202	PEB	C2C-CAC-CBC-CGC
29	NO	202	PEB	C2C-CAC-CBC-CGC
29	SR	201	PEB	C2C-CAC-CBC-CGC
30	yJ	302	PUB	C3B-CAB-CBB-CGB
30	yL	302	PUB	C3B-CAB-CBB-CGB
29	D7	1002	PEB	C4B-C3B-CAB-CBB
29	F7	1002	PEB	C4B-C3B-CAB-CBB
29	H7	1002	PEB	C4B-C3B-CAB-CBB
29	J7	1002	PEB	C4B-C3B-CAB-CBB
29	L7	1002	PEB	C4B-C3B-CAB-CBB
29	N7	1002	PEB	C4B-C3B-CAB-CBB
29	D9	1002	PEB	C4B-C3B-CAB-CBB
29	F9	1002	PEB	C4B-C3B-CAB-CBB
29	H9	1002	PEB	C4B-C3B-CAB-CBB
29	J9	1002	PEB	C4B-C3B-CAB-CBB
29	L9	1002	PEB	C4B-C3B-CAB-CBB
29	N9	1002	PEB	C4B-C3B-CAB-CBB
32	k6	302	PMS	S-C-C1-C2
32	k6	302	PMS	S-C-C1-C6
32	kH	302	PMS	S-C-C1-C2
32	kH	302	PMS	S-C-C1-C6
29	C4	201	PEB	C4D-C3D-CAD-CBD
29	E4	201	PEB	C4D-C3D-CAD-CBD
29	G4	201	PEB	C4D-C3D-CAD-CBD
29	I4	201	PEB	C4D-C3D-CAD-CBD
29	K4	201	PEB	C4D-C3D-CAD-CBD
29	M4	201	PEB	C4D-C3D-CAD-CBD
29	dD	401	PEB	C4D-C3D-CAD-CBD
29	CD	201	PEB	C4D-C3D-CAD-CBD
29	GD	201	PEB	C4D-C3D-CAD-CBD
29	ID	201	PEB	C4D-C3D-CAD-CBD
29	KD	201	PEB	C4D-C3D-CAD-CBD
29	MD	201	PEB	C4D-C3D-CAD-CBD
29	BG	201	PEB	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	DG	201	PEB	C4D-C3D-CAD-CBD
29	FG	201	PEB	C4D-C3D-CAD-CBD
29	HG	201	PEB	C4D-C3D-CAD-CBD
29	JG	201	PEB	C4D-C3D-CAD-CBD
29	LG	201	PEB	C4D-C3D-CAD-CBD
29	BQ	201	PEB	C4D-C3D-CAD-CBD
29	DQ	201	PEB	C4D-C3D-CAD-CBD
29	FQ	201	PEB	C4D-C3D-CAD-CBD
29	HQ	201	PEB	C4D-C3D-CAD-CBD
29	JQ	201	PEB	C4D-C3D-CAD-CBD
29	MQ	402	PEB	C4D-C3D-CAD-CBD
29	J5	202	PEB	C3B-CAB-CBB-CGB
29	J8	202	PEB	C3B-CAB-CBB-CGB
29	AJ	201	PEB	C3B-CAB-CBB-CGB
29	CJ	201	PEB	C3B-CAB-CBB-CGB
29	EJ	201	PEB	C3B-CAB-CBB-CGB
29	GJ	201	PEB	C3B-CAB-CBB-CGB
29	IJ	201	PEB	C3B-CAB-CBB-CGB
29	KJ	201	PEB	C3B-CAB-CBB-CGB
29	MJ	201	PEB	C3B-CAB-CBB-CGB
29	OJ	201	PEB	C3B-CAB-CBB-CGB
29	QJ	201	PEB	C3B-CAB-CBB-CGB
29	SJ	201	PEB	C3B-CAB-CBB-CGB
29	UJ	201	PEB	C3B-CAB-CBB-CGB
29	WJ	202	PEB	C3B-CAB-CBB-CGB
29	YJ	201	PEB	C3B-CAB-CBB-CGB
29	aJ	201	PEB	C3B-CAB-CBB-CGB
29	cJ	201	PEB	C3B-CAB-CBB-CGB
29	eJ	201	PEB	C3B-CAB-CBB-CGB
29	gJ	201	PEB	C3B-CAB-CBB-CGB
29	iJ	201	PEB	C3B-CAB-CBB-CGB
29	kJ	201	PEB	C3B-CAB-CBB-CGB
29	mJ	201	PEB	C3B-CAB-CBB-CGB
29	oJ	201	PEB	C3B-CAB-CBB-CGB
29	qJ	201	PEB	C3B-CAB-CBB-CGB
29	sJ	201	PEB	C3B-CAB-CBB-CGB
29	uJ	202	PEB	C3B-CAB-CBB-CGB
29	AL	201	PEB	C3B-CAB-CBB-CGB
29	CL	201	PEB	C3B-CAB-CBB-CGB
29	EL	201	PEB	C3B-CAB-CBB-CGB
29	GL	201	PEB	C3B-CAB-CBB-CGB
29	IL	201	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	KL	201	PEB	C3B-CAB-CBB-CGB
29	ML	201	PEB	C3B-CAB-CBB-CGB
29	OL	201	PEB	C3B-CAB-CBB-CGB
29	QL	201	PEB	C3B-CAB-CBB-CGB
29	SL	201	PEB	C3B-CAB-CBB-CGB
29	UL	201	PEB	C3B-CAB-CBB-CGB
29	WL	202	PEB	C3B-CAB-CBB-CGB
29	YL	201	PEB	C3B-CAB-CBB-CGB
29	aL	201	PEB	C3B-CAB-CBB-CGB
29	cL	201	PEB	C3B-CAB-CBB-CGB
29	eL	201	PEB	C3B-CAB-CBB-CGB
29	gL	201	PEB	C3B-CAB-CBB-CGB
29	iL	201	PEB	C3B-CAB-CBB-CGB
29	kL	201	PEB	C3B-CAB-CBB-CGB
29	mL	201	PEB	C3B-CAB-CBB-CGB
29	oL	201	PEB	C3B-CAB-CBB-CGB
29	qL	201	PEB	C3B-CAB-CBB-CGB
29	sL	201	PEB	C3B-CAB-CBB-CGB
29	uL	202	PEB	C3B-CAB-CBB-CGB
30	AF	302	PUB	C2C-CAC-CBC-CGC
30	AI	302	PUB	C2C-CAC-CBC-CGC
29	M3	202	PEB	C2D-C3D-CAD-CBD
29	N3	202	PEB	C2D-C3D-CAD-CBD
29	C4	201	PEB	C2D-C3D-CAD-CBD
29	E4	201	PEB	C2D-C3D-CAD-CBD
29	G4	201	PEB	C2D-C3D-CAD-CBD
29	I4	201	PEB	C2D-C3D-CAD-CBD
29	K4	201	PEB	C2D-C3D-CAD-CBD
29	M4	201	PEB	C2D-C3D-CAD-CBD
29	dD	401	PEB	C2D-C3D-CAD-CBD
29	CD	201	PEB	C2D-C3D-CAD-CBD
29	GD	201	PEB	C2D-C3D-CAD-CBD
29	ID	201	PEB	C2D-C3D-CAD-CBD
29	KD	201	PEB	C2D-C3D-CAD-CBD
29	MD	201	PEB	C2D-C3D-CAD-CBD
29	BG	201	PEB	C2D-C3D-CAD-CBD
29	DG	201	PEB	C2D-C3D-CAD-CBD
29	FG	201	PEB	C2D-C3D-CAD-CBD
29	HG	201	PEB	C2D-C3D-CAD-CBD
29	JG	201	PEB	C2D-C3D-CAD-CBD
29	LG	201	PEB	C2D-C3D-CAD-CBD
29	MO	202	PEB	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	NO	202	PEB	C2D-C3D-CAD-CBD
29	BQ	201	PEB	C2D-C3D-CAD-CBD
29	DQ	201	PEB	C2D-C3D-CAD-CBD
29	FQ	201	PEB	C2D-C3D-CAD-CBD
29	HQ	201	PEB	C2D-C3D-CAD-CBD
29	JQ	201	PEB	C2D-C3D-CAD-CBD
29	MQ	402	PEB	C2D-C3D-CAD-CBD
30	MA	402	PUB	C4A-C3A-CAA-CBA
30	MN	402	PUB	C4A-C3A-CAA-CBA
29	B5	203	PEB	C3B-CAB-CBB-CGB
29	F5	203	PEB	C3B-CAB-CBB-CGB
29	G5	203	PEB	C3B-CAB-CBB-CGB
29	H5	203	PEB	C3B-CAB-CBB-CGB
29	L5	203	PEB	C3B-CAB-CBB-CGB
29	B8	203	PEB	C3B-CAB-CBB-CGB
29	F8	203	PEB	C3B-CAB-CBB-CGB
29	G8	203	PEB	C3B-CAB-CBB-CGB
29	H8	203	PEB	C3B-CAB-CBB-CGB
29	L8	203	PEB	C3B-CAB-CBB-CGB
29	A1	303	PEB	C2A-C3A-CAA-CBA
29	O1	202	PEB	C2A-C3A-CAA-CBA
29	Q1	202	PEB	C2A-C3A-CAA-CBA
29	S1	202	PEB	C2A-C3A-CAA-CBA
29	U1	203	PEB	C2A-C3A-CAA-CBA
29	W1	202	PEB	C2A-C3A-CAA-CBA
29	Z1	203	PEB	C2A-C3A-CAA-CBA
29	b1	202	PEB	C2A-C3A-CAA-CBA
29	d1	202	PEB	C2A-C3A-CAA-CBA
29	f1	202	PEB	C2A-C3A-CAA-CBA
29	h1	202	PEB	C2A-C3A-CAA-CBA
29	j1	202	PEB	C2A-C3A-CAA-CBA
29	l1	202	PEB	C2A-C3A-CAA-CBA
29	e2	402	PEB	C2C-CAC-CBC-CGC
29	M2	202	PEB	C2A-C3A-CAA-CBA
29	N2	201	PEB	C2C-CAC-CBC-CGC
29	O2	202	PEB	C2A-C3A-CAA-CBA
29	Q2	202	PEB	C2A-C3A-CAA-CBA
29	R2	201	PEB	C2C-CAC-CBC-CGC
29	S2	202	PEB	C2A-C3A-CAA-CBA
29	T2	201	PEB	C2C-CAC-CBC-CGC
29	U2	202	PEB	C2A-C3A-CAA-CBA
29	V2	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	W2	202	PEB	C2A-C3A-CAA-CBA
29	C4	202	PEB	C2A-C3A-CAA-CBA
29	E4	202	PEB	C2A-C3A-CAA-CBA
29	G4	202	PEB	C2A-C3A-CAA-CBA
29	I4	202	PEB	C2A-C3A-CAA-CBA
29	K4	202	PEB	C2A-C3A-CAA-CBA
29	M4	202	PEB	C2A-C3A-CAA-CBA
29	I5	202	PEB	C2A-C3A-CAA-CBA
29	K5	202	PEB	C2A-C3A-CAA-CBA
29	A5	202	PEB	C2A-C3A-CAA-CBA
29	C5	202	PEB	C2A-C3A-CAA-CBA
29	O7	201	PEB	C2A-C3A-CAA-CBA
29	Q7	201	PEB	C2A-C3A-CAA-CBA
29	S7	201	PEB	C2A-C3A-CAA-CBA
29	U7	201	PEB	C2A-C3A-CAA-CBA
29	W7	201	PEB	C2A-C3A-CAA-CBA
29	Z7	201	PEB	C2A-C3A-CAA-CBA
29	b7	201	PEB	C2A-C3A-CAA-CBA
29	d7	201	PEB	C2A-C3A-CAA-CBA
29	f7	201	PEB	C2A-C3A-CAA-CBA
29	h7	201	PEB	C2A-C3A-CAA-CBA
29	j7	201	PEB	C2A-C3A-CAA-CBA
29	l7	201	PEB	C2A-C3A-CAA-CBA
29	I8	202	PEB	C2A-C3A-CAA-CBA
29	K8	202	PEB	C2A-C3A-CAA-CBA
29	A8	202	PEB	C2A-C3A-CAA-CBA
29	C8	202	PEB	C2A-C3A-CAA-CBA
29	O9	201	PEB	C2A-C3A-CAA-CBA
29	Q9	201	PEB	C2A-C3A-CAA-CBA
29	S9	201	PEB	C2A-C3A-CAA-CBA
29	U9	201	PEB	C2A-C3A-CAA-CBA
29	W9	201	PEB	C2A-C3A-CAA-CBA
29	Z9	201	PEB	C2A-C3A-CAA-CBA
29	b9	201	PEB	C2A-C3A-CAA-CBA
29	d9	201	PEB	C2A-C3A-CAA-CBA
29	f9	201	PEB	C2A-C3A-CAA-CBA
29	h9	201	PEB	C2A-C3A-CAA-CBA
29	j9	201	PEB	C2A-C3A-CAA-CBA
29	l9	201	PEB	C2A-C3A-CAA-CBA
29	AA	201	PEB	C2A-C3A-CAA-CBA
29	AA	202	PEB	C2A-C3A-CAA-CBA
29	CA	201	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	CA	202	PEB	C2A-C3A-CAA-CBA
29	EA	201	PEB	C2A-C3A-CAA-CBA
29	EA	202	PEB	C2A-C3A-CAA-CBA
29	GA	201	PEB	C2A-C3A-CAA-CBA
29	GA	202	PEB	C2A-C3A-CAA-CBA
29	IA	201	PEB	C2A-C3A-CAA-CBA
29	IA	202	PEB	C2A-C3A-CAA-CBA
29	KA	201	PEB	C2A-C3A-CAA-CBA
29	KA	202	PEB	C2A-C3A-CAA-CBA
29	MA	401	PEB	C2A-C3A-CAA-CBA
29	AB	303	PEB	C2A-C3A-CAA-CBA
29	BB	301	PEB	C2A-C3A-CAA-CBA
29	DB	202	PEB	C2A-C3A-CAA-CBA
29	FB	202	PEB	C2A-C3A-CAA-CBA
29	HB	202	PEB	C2A-C3A-CAA-CBA
29	JB	202	PEB	C2A-C3A-CAA-CBA
29	KB	203	PEB	C2A-C3A-CAA-CBA
29	LB	202	PEB	C2A-C3A-CAA-CBA
29	QB	202	PEB	C2A-C3A-CAA-CBA
29	RB	202	PEB	C2A-C3A-CAA-CBA
29	TB	202	PEB	C2A-C3A-CAA-CBA
29	VB	202	PEB	C2A-C3A-CAA-CBA
29	YB	201	PEB	C2A-C3A-CAA-CBA
29	ZB	202	PEB	C2A-C3A-CAA-CBA
29	aB	203	PEB	C2A-C3A-CAA-CBA
29	cB	202	PEB	C2A-C3A-CAA-CBA
29	gB	202	PEB	C2A-C3A-CAA-CBA
29	iB	202	PEB	C2A-C3A-CAA-CBA
29	kB	202	PEB	C2A-C3A-CAA-CBA
29	mB	202	PEB	C2A-C3A-CAA-CBA
29	CD	202	PEB	C2A-C3A-CAA-CBA
29	ED	201	PEB	C2A-C3A-CAA-CBA
29	GD	202	PEB	C2A-C3A-CAA-CBA
29	ID	202	PEB	C2A-C3A-CAA-CBA
29	KD	202	PEB	C2A-C3A-CAA-CBA
29	MD	202	PEB	C2A-C3A-CAA-CBA
29	DF	1002	PEB	C2A-C3A-CAA-CBA
29	FF	1002	PEB	C2A-C3A-CAA-CBA
29	HF	1002	PEB	C2A-C3A-CAA-CBA
29	JF	1002	PEB	C2A-C3A-CAA-CBA
29	LF	1002	PEB	C2A-C3A-CAA-CBA
29	NF	1002	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	OF	203	PEB	C2C-CAC-CBC-CGC
29	OF	203	PEB	C2A-C3A-CAA-CBA
29	PF	202	PEB	C2C-CAC-CBC-CGC
29	PF	202	PEB	C2A-C3A-CAA-CBA
29	UF	201	PEB	C2A-C3A-CAA-CBA
29	VF	202	PEB	C2A-C3A-CAA-CBA
29	YF	202	PEB	C2C-CAC-CBC-CGC
29	YF	202	PEB	C2A-C3A-CAA-CBA
29	aF	202	PEB	C2C-CAC-CBC-CGC
29	aF	202	PEB	C2A-C3A-CAA-CBA
29	dF	201	PEB	C2C-CAC-CBC-CGC
29	dF	201	PEB	C2A-C3A-CAA-CBA
29	eF	202	PEB	C2C-CAC-CBC-CGC
29	eF	202	PEB	C2A-C3A-CAA-CBA
29	gF	202	PEB	C2C-CAC-CBC-CGC
29	gF	202	PEB	C2A-C3A-CAA-CBA
29	iF	202	PEB	C2C-CAC-CBC-CGC
29	iF	202	PEB	C2A-C3A-CAA-CBA
29	kF	202	PEB	C2C-CAC-CBC-CGC
29	kF	202	PEB	C2A-C3A-CAA-CBA
29	mF	202	PEB	C2C-CAC-CBC-CGC
29	mF	202	PEB	C2A-C3A-CAA-CBA
29	AG	202	PEB	C2A-C3A-CAA-CBA
29	CG	202	PEB	C2A-C3A-CAA-CBA
29	EG	202	PEB	C2A-C3A-CAA-CBA
29	GG	202	PEB	C2A-C3A-CAA-CBA
29	IG	202	PEB	C2A-C3A-CAA-CBA
29	KG	202	PEB	C2A-C3A-CAA-CBA
29	DI	1002	PEB	C2A-C3A-CAA-CBA
29	FI	1002	PEB	C2A-C3A-CAA-CBA
29	HI	1002	PEB	C2A-C3A-CAA-CBA
29	JI	1002	PEB	C2A-C3A-CAA-CBA
29	LI	1002	PEB	C2A-C3A-CAA-CBA
29	NI	1002	PEB	C2A-C3A-CAA-CBA
29	OI	203	PEB	C2C-CAC-CBC-CGC
29	OI	203	PEB	C2A-C3A-CAA-CBA
29	PI	202	PEB	C2C-CAC-CBC-CGC
29	PI	202	PEB	C2A-C3A-CAA-CBA
29	UI	201	PEB	C2A-C3A-CAA-CBA
29	VI	202	PEB	C2A-C3A-CAA-CBA
29	YI	202	PEB	C2C-CAC-CBC-CGC
29	YI	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	aI	202	PEB	C2C-CAC-CBC-CGC
29	aI	202	PEB	C2A-C3A-CAA-CBA
29	dI	201	PEB	C2C-CAC-CBC-CGC
29	dI	201	PEB	C2A-C3A-CAA-CBA
29	eI	202	PEB	C2C-CAC-CBC-CGC
29	eI	202	PEB	C2A-C3A-CAA-CBA
29	gI	202	PEB	C2C-CAC-CBC-CGC
29	gI	202	PEB	C2A-C3A-CAA-CBA
29	iI	202	PEB	C2C-CAC-CBC-CGC
29	iI	202	PEB	C2A-C3A-CAA-CBA
29	kI	202	PEB	C2C-CAC-CBC-CGC
29	kI	202	PEB	C2A-C3A-CAA-CBA
29	mI	202	PEB	C2C-CAC-CBC-CGC
29	mI	202	PEB	C2A-C3A-CAA-CBA
29	AJ	201	PEB	C2A-C3A-CAA-CBA
29	AJ	203	PEB	C2A-C3A-CAA-CBA
29	BJ	202	PEB	C2A-C3A-CAA-CBA
29	CJ	201	PEB	C2A-C3A-CAA-CBA
29	EJ	201	PEB	C2A-C3A-CAA-CBA
29	FJ	202	PEB	C2A-C3A-CAA-CBA
29	GJ	201	PEB	C2A-C3A-CAA-CBA
29	HJ	201	PEB	C2A-C3A-CAA-CBA
29	IJ	201	PEB	C2A-C3A-CAA-CBA
29	IJ	203	PEB	C2A-C3A-CAA-CBA
29	JJ	202	PEB	C2A-C3A-CAA-CBA
29	KJ	201	PEB	C2A-C3A-CAA-CBA
29	MJ	201	PEB	C2A-C3A-CAA-CBA
29	NJ	202	PEB	C2A-C3A-CAA-CBA
29	OJ	201	PEB	C2A-C3A-CAA-CBA
29	PJ	202	PEB	C2A-C3A-CAA-CBA
29	QJ	201	PEB	C2A-C3A-CAA-CBA
29	RJ	202	PEB	C2A-C3A-CAA-CBA
29	SJ	201	PEB	C2A-C3A-CAA-CBA
29	TJ	202	PEB	C2A-C3A-CAA-CBA
29	UJ	201	PEB	C2A-C3A-CAA-CBA
29	WJ	201	PEB	C2A-C3A-CAA-CBA
29	WJ	202	PEB	C2A-C3A-CAA-CBA
29	XJ	202	PEB	C2A-C3A-CAA-CBA
29	YJ	201	PEB	C2A-C3A-CAA-CBA
29	ZJ	202	PEB	C2A-C3A-CAA-CBA
29	aJ	201	PEB	C2A-C3A-CAA-CBA
29	bJ	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	cJ	201	PEB	C2A-C3A-CAA-CBA
29	dJ	202	PEB	C2A-C3A-CAA-CBA
29	eJ	201	PEB	C2A-C3A-CAA-CBA
29	fJ	202	PEB	C2A-C3A-CAA-CBA
29	gJ	201	PEB	C2A-C3A-CAA-CBA
29	hJ	202	PEB	C2A-C3A-CAA-CBA
29	iJ	201	PEB	C2A-C3A-CAA-CBA
29	jJ	202	PEB	C2A-C3A-CAA-CBA
29	kJ	201	PEB	C2A-C3A-CAA-CBA
29	lJ	202	PEB	C2A-C3A-CAA-CBA
29	mJ	201	PEB	C2A-C3A-CAA-CBA
29	nJ	202	PEB	C2A-C3A-CAA-CBA
29	oJ	201	PEB	C2A-C3A-CAA-CBA
29	pJ	202	PEB	C2A-C3A-CAA-CBA
29	qJ	201	PEB	C2A-C3A-CAA-CBA
29	rJ	202	PEB	C2A-C3A-CAA-CBA
29	sJ	201	PEB	C2A-C3A-CAA-CBA
29	sJ	203	PEB	C2A-C3A-CAA-CBA
29	uJ	201	PEB	C2A-C3A-CAA-CBA
29	uJ	202	PEB	C2A-C3A-CAA-CBA
29	zJ	501	PEB	C2A-C3A-CAA-CBA
29	AK	303	PEB	C2A-C3A-CAA-CBA
29	OK	202	PEB	C2A-C3A-CAA-CBA
29	QK	202	PEB	C2A-C3A-CAA-CBA
29	SK	202	PEB	C2A-C3A-CAA-CBA
29	UK	203	PEB	C2A-C3A-CAA-CBA
29	WK	202	PEB	C2A-C3A-CAA-CBA
29	ZK	203	PEB	C2A-C3A-CAA-CBA
29	bK	202	PEB	C2A-C3A-CAA-CBA
29	dK	202	PEB	C2A-C3A-CAA-CBA
29	fK	202	PEB	C2A-C3A-CAA-CBA
29	hK	202	PEB	C2A-C3A-CAA-CBA
29	jK	202	PEB	C2A-C3A-CAA-CBA
29	lK	202	PEB	C2A-C3A-CAA-CBA
29	AL	201	PEB	C2A-C3A-CAA-CBA
29	AL	203	PEB	C2A-C3A-CAA-CBA
29	BL	202	PEB	C2A-C3A-CAA-CBA
29	CL	201	PEB	C2A-C3A-CAA-CBA
29	EL	201	PEB	C2A-C3A-CAA-CBA
29	FL	202	PEB	C2A-C3A-CAA-CBA
29	GL	201	PEB	C2A-C3A-CAA-CBA
29	HL	201	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	IL	201	PEB	C2A-C3A-CAA-CBA
29	IL	203	PEB	C2A-C3A-CAA-CBA
29	JL	202	PEB	C2A-C3A-CAA-CBA
29	KL	201	PEB	C2A-C3A-CAA-CBA
29	ML	201	PEB	C2A-C3A-CAA-CBA
29	NL	202	PEB	C2A-C3A-CAA-CBA
29	OL	201	PEB	C2A-C3A-CAA-CBA
29	PL	202	PEB	C2A-C3A-CAA-CBA
29	QL	201	PEB	C2A-C3A-CAA-CBA
29	RL	202	PEB	C2A-C3A-CAA-CBA
29	SL	201	PEB	C2A-C3A-CAA-CBA
29	TL	202	PEB	C2A-C3A-CAA-CBA
29	UL	201	PEB	C2A-C3A-CAA-CBA
29	WL	201	PEB	C2A-C3A-CAA-CBA
29	WL	202	PEB	C2A-C3A-CAA-CBA
29	XL	202	PEB	C2A-C3A-CAA-CBA
29	YL	201	PEB	C2A-C3A-CAA-CBA
29	ZL	202	PEB	C2A-C3A-CAA-CBA
29	aL	201	PEB	C2A-C3A-CAA-CBA
29	bL	202	PEB	C2A-C3A-CAA-CBA
29	cL	201	PEB	C2A-C3A-CAA-CBA
29	dL	202	PEB	C2A-C3A-CAA-CBA
29	eL	201	PEB	C2A-C3A-CAA-CBA
29	fL	202	PEB	C2A-C3A-CAA-CBA
29	gL	201	PEB	C2A-C3A-CAA-CBA
29	hL	202	PEB	C2A-C3A-CAA-CBA
29	iL	201	PEB	C2A-C3A-CAA-CBA
29	jL	202	PEB	C2A-C3A-CAA-CBA
29	kL	201	PEB	C2A-C3A-CAA-CBA
29	lL	202	PEB	C2A-C3A-CAA-CBA
29	mL	201	PEB	C2A-C3A-CAA-CBA
29	nL	202	PEB	C2A-C3A-CAA-CBA
29	oL	201	PEB	C2A-C3A-CAA-CBA
29	pL	202	PEB	C2A-C3A-CAA-CBA
29	qL	201	PEB	C2A-C3A-CAA-CBA
29	rL	202	PEB	C2A-C3A-CAA-CBA
29	sL	201	PEB	C2A-C3A-CAA-CBA
29	sL	203	PEB	C2A-C3A-CAA-CBA
29	uL	201	PEB	C2A-C3A-CAA-CBA
29	uL	202	PEB	C2A-C3A-CAA-CBA
29	zL	501	PEB	C2A-C3A-CAA-CBA
29	AM	303	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	BM	301	PEB	C2A-C3A-CAA-CBA
29	DM	202	PEB	C2A-C3A-CAA-CBA
29	FM	202	PEB	C2A-C3A-CAA-CBA
29	HM	202	PEB	C2A-C3A-CAA-CBA
29	JM	202	PEB	C2A-C3A-CAA-CBA
29	KM	203	PEB	C2A-C3A-CAA-CBA
29	LM	202	PEB	C2A-C3A-CAA-CBA
29	QM	202	PEB	C2A-C3A-CAA-CBA
29	RM	202	PEB	C2A-C3A-CAA-CBA
29	TM	202	PEB	C2A-C3A-CAA-CBA
29	VM	202	PEB	C2A-C3A-CAA-CBA
29	YM	201	PEB	C2A-C3A-CAA-CBA
29	ZM	202	PEB	C2A-C3A-CAA-CBA
29	aM	203	PEB	C2A-C3A-CAA-CBA
29	cM	202	PEB	C2A-C3A-CAA-CBA
29	gM	202	PEB	C2A-C3A-CAA-CBA
29	iM	202	PEB	C2A-C3A-CAA-CBA
29	kM	202	PEB	C2A-C3A-CAA-CBA
29	mM	202	PEB	C2A-C3A-CAA-CBA
29	AN	201	PEB	C2A-C3A-CAA-CBA
29	AN	202	PEB	C2A-C3A-CAA-CBA
29	CN	201	PEB	C2A-C3A-CAA-CBA
29	CN	202	PEB	C2A-C3A-CAA-CBA
29	EN	201	PEB	C2A-C3A-CAA-CBA
29	EN	202	PEB	C2A-C3A-CAA-CBA
29	GN	201	PEB	C2A-C3A-CAA-CBA
29	GN	202	PEB	C2A-C3A-CAA-CBA
29	IN	201	PEB	C2A-C3A-CAA-CBA
29	IN	202	PEB	C2A-C3A-CAA-CBA
29	KN	201	PEB	C2A-C3A-CAA-CBA
29	KN	202	PEB	C2A-C3A-CAA-CBA
29	MN	401	PEB	C2A-C3A-CAA-CBA
29	AQ	202	PEB	C2A-C3A-CAA-CBA
29	CQ	202	PEB	C2A-C3A-CAA-CBA
29	EQ	202	PEB	C2A-C3A-CAA-CBA
29	GQ	202	PEB	C2A-C3A-CAA-CBA
29	IQ	202	PEB	C2A-C3A-CAA-CBA
29	KQ	202	PEB	C2A-C3A-CAA-CBA
29	NR	201	PEB	C2C-CAC-CBC-CGC
29	QR	202	PEB	C2A-C3A-CAA-CBA
29	RR	201	PEB	C2C-CAC-CBC-CGC
29	SR	202	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	TR	201	PEB	C2C-CAC-CBC-CGC
29	UR	202	PEB	C2A-C3A-CAA-CBA
29	VR	201	PEB	C2C-CAC-CBC-CGC
29	WR	202	PEB	C2A-C3A-CAA-CBA
29	XR	201	PEB	C2C-CAC-CBC-CGC
31	C1	1001	CYC	C2C-C3C-CAC-CBC
31	D1	1003	CYC	C2C-C3C-CAC-CBC
31	E1	1001	CYC	C2C-C3C-CAC-CBC
31	I1	1001	CYC	C2C-C3C-CAC-CBC
31	K1	1001	CYC	C2C-C3C-CAC-CBC
31	M1	1001	CYC	C2C-C3C-CAC-CBC
31	CK	1001	CYC	C2C-C3C-CAC-CBC
31	EK	1001	CYC	C2C-C3C-CAC-CBC
31	GK	1001	CYC	C2C-C3C-CAC-CBC
31	IK	1001	CYC	C2C-C3C-CAC-CBC
31	KK	1001	CYC	C2C-C3C-CAC-CBC
31	MK	1001	CYC	C2C-C3C-CAC-CBC
31	D1	1001	CYC	C2B-C3B-CAB-CBB
31	L1	1001	CYC	C2B-C3B-CAB-CBB
31	HK	1001	CYC	C2B-C3B-CAB-CBB
31	LK	1001	CYC	C2B-C3B-CAB-CBB
30	QB	201	PUB	C4A-C3A-CAA-CBA
30	QM	201	PUB	C4A-C3A-CAA-CBA
29	D7	1002	PEB	C2B-C3B-CAB-CBB
29	D9	1002	PEB	C2B-C3B-CAB-CBB
31	F1	1001	CYC	C2B-C3B-CAB-CBB
31	N1	1001	CYC	C2B-C3B-CAB-CBB
31	DK	1001	CYC	C2B-C3B-CAB-CBB
31	FK	1001	CYC	C2B-C3B-CAB-CBB
31	H1	1001	CYC	C2B-C3B-CAB-CBB
31	J1	1001	CYC	C2B-C3B-CAB-CBB
31	JK	1001	CYC	C2B-C3B-CAB-CBB
31	NK	1001	CYC	C2B-C3B-CAB-CBB
29	F7	1002	PEB	C2B-C3B-CAB-CBB
29	H7	1002	PEB	C2B-C3B-CAB-CBB
29	J7	1002	PEB	C2B-C3B-CAB-CBB
29	L7	1002	PEB	C2B-C3B-CAB-CBB
29	N7	1002	PEB	C2B-C3B-CAB-CBB
29	F9	1002	PEB	C2B-C3B-CAB-CBB
29	H9	1002	PEB	C2B-C3B-CAB-CBB
29	J9	1002	PEB	C2B-C3B-CAB-CBB
29	L9	1002	PEB	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	N9	1002	PEB	C2B-C3B-CAB-CBB
30	MA	402	PUB	C2A-C3A-CAA-CBA
30	QB	201	PUB	C2A-C3A-CAA-CBA
30	MG	402	PUB	C2A-C3A-CAA-CBA
30	QM	201	PUB	C2A-C3A-CAA-CBA
30	MN	402	PUB	C2A-C3A-CAA-CBA
30	MQ	404	PUB	C2A-C3A-CAA-CBA
29	P1	201	PEB	C4B-C3B-CAB-CBB
29	R1	201	PEB	C4B-C3B-CAB-CBB
29	T1	201	PEB	C4B-C3B-CAB-CBB
29	V1	201	PEB	C4B-C3B-CAB-CBB
29	Y1	201	PEB	C4B-C3B-CAB-CBB
29	a1	201	PEB	C4B-C3B-CAB-CBB
29	c1	201	PEB	C4B-C3B-CAB-CBB
29	e1	201	PEB	C4B-C3B-CAB-CBB
29	g1	201	PEB	C4B-C3B-CAB-CBB
29	i1	201	PEB	C4B-C3B-CAB-CBB
29	k1	201	PEB	C4B-C3B-CAB-CBB
29	m1	201	PEB	C4B-C3B-CAB-CBB
29	PK	201	PEB	C4B-C3B-CAB-CBB
29	RK	201	PEB	C4B-C3B-CAB-CBB
29	TK	201	PEB	C4B-C3B-CAB-CBB
29	VK	201	PEB	C4B-C3B-CAB-CBB
29	YK	201	PEB	C4B-C3B-CAB-CBB
29	aK	201	PEB	C4B-C3B-CAB-CBB
29	cK	201	PEB	C4B-C3B-CAB-CBB
29	eK	201	PEB	C4B-C3B-CAB-CBB
29	gK	201	PEB	C4B-C3B-CAB-CBB
29	iK	201	PEB	C4B-C3B-CAB-CBB
29	kK	201	PEB	C4B-C3B-CAB-CBB
29	mK	201	PEB	C4B-C3B-CAB-CBB
31	DP	1001	CYC	C2B-C3B-CAB-CBB
31	FP	1001	CYC	C2B-C3B-CAB-CBB
31	BP	1001	CYC	C2B-C3B-CAB-CBB
31	HP	1001	CYC	C2B-C3B-CAB-CBB
31	IP	1001	CYC	C2B-C3B-CAB-CBB
31	MP	1001	CYC	C2B-C3B-CAB-CBB
31	OP	1001	CYC	C2B-C3B-CAB-CBB
31	QP	1001	CYC	C2B-C3B-CAB-CBB
31	SP	1001	CYC	C2B-C3B-CAB-CBB
31	UP	1001	CYC	C2B-C3B-CAB-CBB
31	XP	1001	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
31	fP	1001	CYC	C2B-C3B-CAB-CBB
31	hP	1001	CYC	C2B-C3B-CAB-CBB
31	jP	1001	CYC	C2B-C3B-CAB-CBB
31	kP	1001	CYC	C2B-C3B-CAB-CBB
31	nP	1001	CYC	C2B-C3B-CAB-CBB
31	oP	1001	CYC	C2B-C3B-CAB-CBB
31	qP	1001	CYC	C2B-C3B-CAB-CBB
31	sP	1001	CYC	C2B-C3B-CAB-CBB
31	wP	1001	CYC	C2B-C3B-CAB-CBB
31	lP	1001	CYC	C2B-C3B-CAB-CBB
31	uP	1001	CYC	C2B-C3B-CAB-CBB
29	AA	202	PEB	NA-C4A-CHA-C1B
29	CA	202	PEB	NA-C4A-CHA-C1B
29	EA	202	PEB	NA-C4A-CHA-C1B
29	GA	202	PEB	NA-C4A-CHA-C1B
29	IA	202	PEB	NA-C4A-CHA-C1B
29	KA	202	PEB	NA-C4A-CHA-C1B
29	AG	202	PEB	NA-C4A-CHA-C1B
29	CG	202	PEB	NA-C4A-CHA-C1B
29	EG	202	PEB	NA-C4A-CHA-C1B
29	GG	202	PEB	NA-C4A-CHA-C1B
29	IG	202	PEB	NA-C4A-CHA-C1B
29	KG	202	PEB	NA-C4A-CHA-C1B
29	AN	202	PEB	NA-C4A-CHA-C1B
29	CN	202	PEB	NA-C4A-CHA-C1B
29	EN	202	PEB	NA-C4A-CHA-C1B
29	GN	202	PEB	NA-C4A-CHA-C1B
29	IN	202	PEB	NA-C4A-CHA-C1B
29	KN	202	PEB	NA-C4A-CHA-C1B
29	AQ	202	PEB	NA-C4A-CHA-C1B
29	CQ	202	PEB	NA-C4A-CHA-C1B
29	EQ	202	PEB	NA-C4A-CHA-C1B
29	GQ	202	PEB	NA-C4A-CHA-C1B
29	IQ	202	PEB	NA-C4A-CHA-C1B
29	KQ	202	PEB	NA-C4A-CHA-C1B
29	A1	302	PEB	C2D-C1D-CHC-C4C
29	O1	201	PEB	C2D-C1D-CHC-C4C
29	P1	203	PEB	C2D-C1D-CHC-C4C
29	Q1	201	PEB	C2D-C1D-CHC-C4C
29	R1	203	PEB	C2D-C1D-CHC-C4C
29	S1	201	PEB	C2D-C1D-CHC-C4C
29	T1	202	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	U1	202	PEB	C2D-C1D-CHC-C4C
29	V1	203	PEB	C2D-C1D-CHC-C4C
29	W1	201	PEB	C2D-C1D-CHC-C4C
29	Y1	202	PEB	C2D-C1D-CHC-C4C
29	Z1	202	PEB	C2D-C1D-CHC-C4C
29	a1	203	PEB	C2D-C1D-CHC-C4C
29	b1	201	PEB	C2D-C1D-CHC-C4C
29	c1	203	PEB	C2D-C1D-CHC-C4C
29	d1	201	PEB	C2D-C1D-CHC-C4C
29	e1	203	PEB	C2D-C1D-CHC-C4C
29	f1	201	PEB	C2D-C1D-CHC-C4C
29	g1	203	PEB	C2D-C1D-CHC-C4C
29	h1	201	PEB	C2D-C1D-CHC-C4C
29	i1	203	PEB	C2D-C1D-CHC-C4C
29	j1	201	PEB	C2D-C1D-CHC-C4C
29	k1	203	PEB	C2D-C1D-CHC-C4C
29	l1	201	PEB	C2D-C1D-CHC-C4C
29	m1	202	PEB	C2D-C1D-CHC-C4C
29	M3	202	PEB	C2D-C1D-CHC-C4C
29	N3	202	PEB	C2D-C1D-CHC-C4C
29	C4	203	PEB	C2D-C1D-CHC-C4C
29	E4	203	PEB	C2D-C1D-CHC-C4C
29	G4	203	PEB	C2D-C1D-CHC-C4C
29	K4	203	PEB	C2D-C1D-CHC-C4C
29	M4	203	PEB	C2D-C1D-CHC-C4C
29	I5	203	PEB	C2D-C1D-CHC-C4C
29	K5	203	PEB	C2D-C1D-CHC-C4C
29	A5	203	PEB	C2D-C1D-CHC-C4C
29	C5	203	PEB	C2D-C1D-CHC-C4C
29	A7	304	PEB	C2D-C1D-CHC-C4C
29	A7	305	PEB	C2D-C1D-CHC-C4C
29	P7	203	PEB	C2D-C1D-CHC-C4C
29	R7	203	PEB	C2D-C1D-CHC-C4C
29	T7	203	PEB	C2D-C1D-CHC-C4C
29	V7	203	PEB	C2D-C1D-CHC-C4C
29	Y7	203	PEB	C2D-C1D-CHC-C4C
29	a7	203	PEB	C2D-C1D-CHC-C4C
29	c7	203	PEB	C2D-C1D-CHC-C4C
29	e7	203	PEB	C2D-C1D-CHC-C4C
29	g7	203	PEB	C2D-C1D-CHC-C4C
29	i7	203	PEB	C2D-C1D-CHC-C4C
29	k7	203	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	m7	203	PEB	C2D-C1D-CHC-C4C
29	I8	203	PEB	C2D-C1D-CHC-C4C
29	K8	203	PEB	C2D-C1D-CHC-C4C
29	A8	203	PEB	C2D-C1D-CHC-C4C
29	C8	203	PEB	C2D-C1D-CHC-C4C
29	A9	304	PEB	C2D-C1D-CHC-C4C
29	A9	305	PEB	C2D-C1D-CHC-C4C
29	P9	203	PEB	C2D-C1D-CHC-C4C
29	R9	203	PEB	C2D-C1D-CHC-C4C
29	T9	203	PEB	C2D-C1D-CHC-C4C
29	V9	203	PEB	C2D-C1D-CHC-C4C
29	Y9	203	PEB	C2D-C1D-CHC-C4C
29	a9	203	PEB	C2D-C1D-CHC-C4C
29	c9	203	PEB	C2D-C1D-CHC-C4C
29	e9	203	PEB	C2D-C1D-CHC-C4C
29	g9	203	PEB	C2D-C1D-CHC-C4C
29	i9	203	PEB	C2D-C1D-CHC-C4C
29	k9	203	PEB	C2D-C1D-CHC-C4C
29	m9	203	PEB	C2D-C1D-CHC-C4C
29	AA	201	PEB	C2D-C1D-CHC-C4C
29	BA	203	PEB	C2D-C1D-CHC-C4C
29	CA	201	PEB	C2D-C1D-CHC-C4C
29	DA	203	PEB	C2D-C1D-CHC-C4C
29	EA	201	PEB	C2D-C1D-CHC-C4C
29	FA	203	PEB	C2D-C1D-CHC-C4C
29	GA	201	PEB	C2D-C1D-CHC-C4C
29	HA	203	PEB	C2D-C1D-CHC-C4C
29	IA	201	PEB	C2D-C1D-CHC-C4C
29	JA	203	PEB	C2D-C1D-CHC-C4C
29	KA	201	PEB	C2D-C1D-CHC-C4C
29	LA	203	PEB	C2D-C1D-CHC-C4C
29	MA	401	PEB	C2D-C1D-CHC-C4C
29	AC	201	PEB	C2D-C1D-CHC-C4C
29	BC	203	PEB	C2D-C1D-CHC-C4C
29	CC	201	PEB	C2D-C1D-CHC-C4C
29	DC	202	PEB	C2D-C1D-CHC-C4C
29	EC	201	PEB	C2D-C1D-CHC-C4C
29	FC	203	PEB	C2D-C1D-CHC-C4C
29	GC	201	PEB	C2D-C1D-CHC-C4C
29	HC	203	PEB	C2D-C1D-CHC-C4C
29	IC	201	PEB	C2D-C1D-CHC-C4C
29	JC	202	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	KC	202	PEB	C2D-C1D-CHC-C4C
29	LC	203	PEB	C2D-C1D-CHC-C4C
29	CD	203	PEB	C2D-C1D-CHC-C4C
29	ED	202	PEB	C2D-C1D-CHC-C4C
29	GD	203	PEB	C2D-C1D-CHC-C4C
29	ID	203	PEB	C2D-C1D-CHC-C4C
29	KD	203	PEB	C2D-C1D-CHC-C4C
29	MD	203	PEB	C2D-C1D-CHC-C4C
29	AE	201	PEB	C2D-C1D-CHC-C4C
29	BE	203	PEB	C2D-C1D-CHC-C4C
29	CE	201	PEB	C2D-C1D-CHC-C4C
29	DE	202	PEB	C2D-C1D-CHC-C4C
29	EE	201	PEB	C2D-C1D-CHC-C4C
29	FE	203	PEB	C2D-C1D-CHC-C4C
29	GE	201	PEB	C2D-C1D-CHC-C4C
29	HE	203	PEB	C2D-C1D-CHC-C4C
29	IE	201	PEB	C2D-C1D-CHC-C4C
29	JE	202	PEB	C2D-C1D-CHC-C4C
29	KE	202	PEB	C2D-C1D-CHC-C4C
29	LE	203	PEB	C2D-C1D-CHC-C4C
29	AF	301	PEB	C2D-C1D-CHC-C4C
29	AF	304	PEB	C2D-C1D-CHC-C4C
29	DF	1002	PEB	C2D-C1D-CHC-C4C
29	FF	1002	PEB	C2D-C1D-CHC-C4C
29	HF	1002	PEB	C2D-C1D-CHC-C4C
29	JF	1002	PEB	C2D-C1D-CHC-C4C
29	LF	1002	PEB	C2D-C1D-CHC-C4C
29	NF	1002	PEB	C2D-C1D-CHC-C4C
29	PF	203	PEB	C2D-C1D-CHC-C4C
29	RF	202	PEB	C2D-C1D-CHC-C4C
29	TF	202	PEB	C2D-C1D-CHC-C4C
29	VF	203	PEB	C2D-C1D-CHC-C4C
29	YF	203	PEB	C2D-C1D-CHC-C4C
29	aF	203	PEB	C2D-C1D-CHC-C4C
29	cF	202	PEB	C2D-C1D-CHC-C4C
29	eF	203	PEB	C2D-C1D-CHC-C4C
29	gF	203	PEB	C2D-C1D-CHC-C4C
29	iF	203	PEB	C2D-C1D-CHC-C4C
29	kF	203	PEB	C2D-C1D-CHC-C4C
29	mF	203	PEB	C2D-C1D-CHC-C4C
29	AG	201	PEB	C2D-C1D-CHC-C4C
29	BG	201	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	CG	201	PEB	C2D-C1D-CHC-C4C
29	DG	201	PEB	C2D-C1D-CHC-C4C
29	EG	201	PEB	C2D-C1D-CHC-C4C
29	FG	201	PEB	C2D-C1D-CHC-C4C
29	GG	201	PEB	C2D-C1D-CHC-C4C
29	HG	201	PEB	C2D-C1D-CHC-C4C
29	IG	201	PEB	C2D-C1D-CHC-C4C
29	JG	201	PEB	C2D-C1D-CHC-C4C
29	KG	201	PEB	C2D-C1D-CHC-C4C
29	LG	201	PEB	C2D-C1D-CHC-C4C
29	MG	404	PEB	C2D-C1D-CHC-C4C
29	MG	405	PEB	C2D-C1D-CHC-C4C
29	AI	301	PEB	C2D-C1D-CHC-C4C
29	AI	304	PEB	C2D-C1D-CHC-C4C
29	DI	1002	PEB	C2D-C1D-CHC-C4C
29	FI	1002	PEB	C2D-C1D-CHC-C4C
29	HI	1002	PEB	C2D-C1D-CHC-C4C
29	JI	1002	PEB	C2D-C1D-CHC-C4C
29	LI	1002	PEB	C2D-C1D-CHC-C4C
29	NI	1002	PEB	C2D-C1D-CHC-C4C
29	PI	203	PEB	C2D-C1D-CHC-C4C
29	RI	202	PEB	C2D-C1D-CHC-C4C
29	TI	202	PEB	C2D-C1D-CHC-C4C
29	VI	203	PEB	C2D-C1D-CHC-C4C
29	YI	203	PEB	C2D-C1D-CHC-C4C
29	aI	203	PEB	C2D-C1D-CHC-C4C
29	cI	202	PEB	C2D-C1D-CHC-C4C
29	eI	203	PEB	C2D-C1D-CHC-C4C
29	gI	203	PEB	C2D-C1D-CHC-C4C
29	iI	203	PEB	C2D-C1D-CHC-C4C
29	kI	203	PEB	C2D-C1D-CHC-C4C
29	mI	203	PEB	C2D-C1D-CHC-C4C
29	AJ	201	PEB	C2D-C1D-CHC-C4C
29	CJ	201	PEB	C2D-C1D-CHC-C4C
29	EJ	201	PEB	C2D-C1D-CHC-C4C
29	GJ	201	PEB	C2D-C1D-CHC-C4C
29	IJ	201	PEB	C2D-C1D-CHC-C4C
29	KJ	201	PEB	C2D-C1D-CHC-C4C
29	MJ	201	PEB	C2D-C1D-CHC-C4C
29	OJ	201	PEB	C2D-C1D-CHC-C4C
29	QJ	201	PEB	C2D-C1D-CHC-C4C
29	SJ	201	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	UJ	201	PEB	C2D-C1D-CHC-C4C
29	WJ	202	PEB	C2D-C1D-CHC-C4C
29	YJ	201	PEB	C2D-C1D-CHC-C4C
29	aJ	201	PEB	C2D-C1D-CHC-C4C
29	cJ	201	PEB	C2D-C1D-CHC-C4C
29	eJ	201	PEB	C2D-C1D-CHC-C4C
29	gJ	201	PEB	C2D-C1D-CHC-C4C
29	iJ	201	PEB	C2D-C1D-CHC-C4C
29	kJ	201	PEB	C2D-C1D-CHC-C4C
29	mJ	201	PEB	C2D-C1D-CHC-C4C
29	oJ	201	PEB	C2D-C1D-CHC-C4C
29	qJ	201	PEB	C2D-C1D-CHC-C4C
29	sJ	201	PEB	C2D-C1D-CHC-C4C
29	uJ	202	PEB	C2D-C1D-CHC-C4C
29	wJ	301	PEB	C2D-C1D-CHC-C4C
29	xJ	301	PEB	C2D-C1D-CHC-C4C
29	AK	302	PEB	C2D-C1D-CHC-C4C
29	OK	201	PEB	C2D-C1D-CHC-C4C
29	PK	203	PEB	C2D-C1D-CHC-C4C
29	QK	201	PEB	C2D-C1D-CHC-C4C
29	RK	203	PEB	C2D-C1D-CHC-C4C
29	SK	201	PEB	C2D-C1D-CHC-C4C
29	TK	202	PEB	C2D-C1D-CHC-C4C
29	UK	202	PEB	C2D-C1D-CHC-C4C
29	VK	203	PEB	C2D-C1D-CHC-C4C
29	WK	201	PEB	C2D-C1D-CHC-C4C
29	YK	202	PEB	C2D-C1D-CHC-C4C
29	ZK	202	PEB	C2D-C1D-CHC-C4C
29	aK	203	PEB	C2D-C1D-CHC-C4C
29	bK	201	PEB	C2D-C1D-CHC-C4C
29	cK	203	PEB	C2D-C1D-CHC-C4C
29	dK	201	PEB	C2D-C1D-CHC-C4C
29	eK	203	PEB	C2D-C1D-CHC-C4C
29	fK	201	PEB	C2D-C1D-CHC-C4C
29	gK	203	PEB	C2D-C1D-CHC-C4C
29	hK	201	PEB	C2D-C1D-CHC-C4C
29	iK	203	PEB	C2D-C1D-CHC-C4C
29	jK	201	PEB	C2D-C1D-CHC-C4C
29	kK	203	PEB	C2D-C1D-CHC-C4C
29	lK	201	PEB	C2D-C1D-CHC-C4C
29	mK	202	PEB	C2D-C1D-CHC-C4C
29	AL	201	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	CL	201	PEB	C2D-C1D-CHC-C4C
29	EL	201	PEB	C2D-C1D-CHC-C4C
29	GL	201	PEB	C2D-C1D-CHC-C4C
29	IL	201	PEB	C2D-C1D-CHC-C4C
29	KL	201	PEB	C2D-C1D-CHC-C4C
29	ML	201	PEB	C2D-C1D-CHC-C4C
29	OL	201	PEB	C2D-C1D-CHC-C4C
29	QL	201	PEB	C2D-C1D-CHC-C4C
29	SL	201	PEB	C2D-C1D-CHC-C4C
29	UL	201	PEB	C2D-C1D-CHC-C4C
29	WL	202	PEB	C2D-C1D-CHC-C4C
29	YL	201	PEB	C2D-C1D-CHC-C4C
29	aL	201	PEB	C2D-C1D-CHC-C4C
29	cL	201	PEB	C2D-C1D-CHC-C4C
29	eL	201	PEB	C2D-C1D-CHC-C4C
29	gL	201	PEB	C2D-C1D-CHC-C4C
29	iL	201	PEB	C2D-C1D-CHC-C4C
29	kL	201	PEB	C2D-C1D-CHC-C4C
29	mL	201	PEB	C2D-C1D-CHC-C4C
29	oL	201	PEB	C2D-C1D-CHC-C4C
29	qL	201	PEB	C2D-C1D-CHC-C4C
29	sL	201	PEB	C2D-C1D-CHC-C4C
29	uL	202	PEB	C2D-C1D-CHC-C4C
29	wL	301	PEB	C2D-C1D-CHC-C4C
29	xL	301	PEB	C2D-C1D-CHC-C4C
29	AN	201	PEB	C2D-C1D-CHC-C4C
29	BN	203	PEB	C2D-C1D-CHC-C4C
29	CN	201	PEB	C2D-C1D-CHC-C4C
29	DN	203	PEB	C2D-C1D-CHC-C4C
29	EN	201	PEB	C2D-C1D-CHC-C4C
29	FN	203	PEB	C2D-C1D-CHC-C4C
29	GN	201	PEB	C2D-C1D-CHC-C4C
29	HN	203	PEB	C2D-C1D-CHC-C4C
29	IN	201	PEB	C2D-C1D-CHC-C4C
29	JN	203	PEB	C2D-C1D-CHC-C4C
29	KN	201	PEB	C2D-C1D-CHC-C4C
29	LN	203	PEB	C2D-C1D-CHC-C4C
29	MN	401	PEB	C2D-C1D-CHC-C4C
29	MO	202	PEB	C2D-C1D-CHC-C4C
29	NO	202	PEB	C2D-C1D-CHC-C4C
29	AQ	201	PEB	C2D-C1D-CHC-C4C
29	BQ	201	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	CQ	201	PEB	C2D-C1D-CHC-C4C
29	DQ	201	PEB	C2D-C1D-CHC-C4C
29	EQ	201	PEB	C2D-C1D-CHC-C4C
29	FQ	201	PEB	C2D-C1D-CHC-C4C
29	GQ	201	PEB	C2D-C1D-CHC-C4C
29	HQ	201	PEB	C2D-C1D-CHC-C4C
29	IQ	201	PEB	C2D-C1D-CHC-C4C
29	JQ	201	PEB	C2D-C1D-CHC-C4C
29	KQ	201	PEB	C2D-C1D-CHC-C4C
29	MQ	402	PEB	C2D-C1D-CHC-C4C
29	MQ	406	PEB	C2D-C1D-CHC-C4C
29	MQ	407	PEB	C2D-C1D-CHC-C4C
29	OR	202	PEB	C2D-C1D-CHC-C4C
29	SR	201	PEB	C2D-C1D-CHC-C4C
30	A1	304	PUB	C3A-C4A-CHA-C1B
30	A7	302	PUB	C3A-C4A-CHA-C1B
30	A7	303	PUB	C3A-C4A-CHA-C1B
30	A9	302	PUB	C3A-C4A-CHA-C1B
30	A9	303	PUB	C3A-C4A-CHA-C1B
30	MA	402	PUB	C3A-C4A-CHA-C1B
30	MA	403	PUB	C3A-C4A-CHA-C1B
30	AF	303	PUB	C3A-C4A-CHA-C1B
30	AI	303	PUB	C3A-C4A-CHA-C1B
30	wJ	304	PUB	C3A-C4A-CHA-C1B
30	wJ	305	PUB	C3A-C4A-CHA-C1B
30	xJ	304	PUB	C3A-C4A-CHA-C1B
30	xJ	305	PUB	C3A-C4A-CHA-C1B
30	yJ	302	PUB	C3A-C4A-CHA-C1B
30	yJ	303	PUB	C3A-C4A-CHA-C1B
30	AK	304	PUB	C3A-C4A-CHA-C1B
30	wL	304	PUB	C3A-C4A-CHA-C1B
30	wL	305	PUB	C3A-C4A-CHA-C1B
30	xL	304	PUB	C3A-C4A-CHA-C1B
30	xL	305	PUB	C3A-C4A-CHA-C1B
30	yL	302	PUB	C3A-C4A-CHA-C1B
30	yL	303	PUB	C3A-C4A-CHA-C1B
30	MN	402	PUB	C3A-C4A-CHA-C1B
30	MN	403	PUB	C3A-C4A-CHA-C1B
29	AB	301	PEB	C2C-CAC-CBC-CGC
29	AB	303	PEB	C2C-CAC-CBC-CGC
29	UF	201	PEB	C2C-CAC-CBC-CGC
29	VF	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	UI	201	PEB	C2C-CAC-CBC-CGC
29	VI	202	PEB	C2C-CAC-CBC-CGC
29	AM	301	PEB	C2C-CAC-CBC-CGC
29	AM	303	PEB	C2C-CAC-CBC-CGC
30	AF	302	PUB	C3B-CAB-CBB-CGB
30	AI	302	PUB	C3B-CAB-CBB-CGB
31	rP	1001	CYC	C2B-C3B-CAB-CBB
29	P1	202	PEB	C3B-CAB-CBB-CGB
29	R1	202	PEB	C3B-CAB-CBB-CGB
29	Z1	201	PEB	C3B-CAB-CBB-CGB
29	e1	202	PEB	C3B-CAB-CBB-CGB
29	i1	202	PEB	C3B-CAB-CBB-CGB
29	j1	203	PEB	C3B-CAB-CBB-CGB
29	k1	202	PEB	C3B-CAB-CBB-CGB
29	PK	202	PEB	C3B-CAB-CBB-CGB
29	RK	202	PEB	C3B-CAB-CBB-CGB
29	ZK	201	PEB	C3B-CAB-CBB-CGB
29	eK	202	PEB	C3B-CAB-CBB-CGB
29	iK	202	PEB	C3B-CAB-CBB-CGB
29	jK	203	PEB	C3B-CAB-CBB-CGB
29	kK	202	PEB	C3B-CAB-CBB-CGB
30	MG	403	PUB	C2C-CAC-CBC-CGC
30	MQ	405	PUB	C2C-CAC-CBC-CGC
31	DF	1001	CYC	C2A-CAA-CBA-CGA
31	FF	1001	CYC	C2A-CAA-CBA-CGA
31	HF	1001	CYC	C2A-CAA-CBA-CGA
31	LF	1001	CYC	C2A-CAA-CBA-CGA
31	DI	1001	CYC	C2A-CAA-CBA-CGA
31	FI	1001	CYC	C2A-CAA-CBA-CGA
31	HI	1001	CYC	C2A-CAA-CBA-CGA
31	LI	1001	CYC	C2A-CAA-CBA-CGA
29	AA	202	PEB	NB-C4B-CHB-C1C
29	CA	202	PEB	NB-C4B-CHB-C1C
29	EA	202	PEB	NB-C4B-CHB-C1C
29	GA	202	PEB	NB-C4B-CHB-C1C
29	IA	202	PEB	NB-C4B-CHB-C1C
29	KA	202	PEB	NB-C4B-CHB-C1C
29	AN	202	PEB	NB-C4B-CHB-C1C
29	CN	202	PEB	NB-C4B-CHB-C1C
29	EN	202	PEB	NB-C4B-CHB-C1C
29	GN	202	PEB	NB-C4B-CHB-C1C
29	IN	202	PEB	NB-C4B-CHB-C1C

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Mol	Chain	Res	Type	Atoms
29	KN	202	PEB	NB-C4B-CHB-C1C
31	AP	1001	CYC	C2B-C3B-CAB-CBB
31	CP	1001	CYC	C2B-C3B-CAB-CBB
31	EP	1001	CYC	C2B-C3B-CAB-CBB
31	JP	1001	CYC	C2B-C3B-CAB-CBB
31	KP	1001	CYC	C2B-C3B-CAB-CBB
31	NP	1001	CYC	C2B-C3B-CAB-CBB
31	PP	1001	CYC	C2B-C3B-CAB-CBB
31	RP	1001	CYC	C2B-C3B-CAB-CBB
31	TP	1001	CYC	C2B-C3B-CAB-CBB
31	iP	1001	CYC	C2B-C3B-CAB-CBB
31	tP	1001	CYC	C2B-C3B-CAB-CBB
31	vP	1001	CYC	C2B-C3B-CAB-CBB
31	cP	1001	CYC	C2B-C3B-CAB-CBB
31	lP	1001	CYC	C2B-C3B-CAB-CBB
31	mP	1001	CYC	C2B-C3B-CAB-CBB
31	GP	1001	CYC	C2B-C3B-CAB-CBB
31	eP	1001	CYC	C2B-C3B-CAB-CBB
31	gP	1001	CYC	C2B-C3B-CAB-CBB
31	pP	1001	CYC	C2B-C3B-CAB-CBB
29	M3	202	PEB	C4D-C3D-CAD-CBD
29	N3	202	PEB	C4D-C3D-CAD-CBD
29	MO	202	PEB	C4D-C3D-CAD-CBD
29	NO	202	PEB	C4D-C3D-CAD-CBD
29	M2	202	PEB	C4A-C3A-CAA-CBA
29	O2	202	PEB	C4A-C3A-CAA-CBA
29	Q2	202	PEB	C4A-C3A-CAA-CBA
29	S2	202	PEB	C4A-C3A-CAA-CBA
29	U2	202	PEB	C4A-C3A-CAA-CBA
29	W2	202	PEB	C4A-C3A-CAA-CBA
29	J5	202	PEB	C4A-C3A-CAA-CBA
29	J8	202	PEB	C4A-C3A-CAA-CBA
29	MA	404	PEB	C4A-C3A-CAA-CBA
29	AF	304	PEB	C4A-C3A-CAA-CBA
29	MG	405	PEB	C4A-C3A-CAA-CBA
29	AI	304	PEB	C4A-C3A-CAA-CBA
29	MN	404	PEB	C4A-C3A-CAA-CBA
29	MQ	407	PEB	C4A-C3A-CAA-CBA
29	QR	202	PEB	C4A-C3A-CAA-CBA
29	SR	202	PEB	C4A-C3A-CAA-CBA
29	UR	202	PEB	C4A-C3A-CAA-CBA
29	WR	202	PEB	C4A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
31	C1	1001	CYC	C4C-C3C-CAC-CBC
31	D1	1003	CYC	C4C-C3C-CAC-CBC
31	E1	1001	CYC	C4C-C3C-CAC-CBC
31	I1	1001	CYC	C4C-C3C-CAC-CBC
31	K1	1001	CYC	C4C-C3C-CAC-CBC
31	M1	1001	CYC	C4C-C3C-CAC-CBC
31	CK	1001	CYC	C4C-C3C-CAC-CBC
31	EK	1001	CYC	C4C-C3C-CAC-CBC
31	GK	1001	CYC	C4C-C3C-CAC-CBC
31	IK	1001	CYC	C4C-C3C-CAC-CBC
31	KK	1001	CYC	C4C-C3C-CAC-CBC
31	MK	1001	CYC	C4C-C3C-CAC-CBC
29	U1	201	PEB	C3B-CAB-CBB-CGB
29	V1	202	PEB	C3B-CAB-CBB-CGB
29	a1	202	PEB	C3B-CAB-CBB-CGB
29	c1	202	PEB	C3B-CAB-CBB-CGB
29	g1	202	PEB	C3B-CAB-CBB-CGB
29	UK	201	PEB	C3B-CAB-CBB-CGB
29	VK	202	PEB	C3B-CAB-CBB-CGB
29	aK	202	PEB	C3B-CAB-CBB-CGB
29	cK	202	PEB	C3B-CAB-CBB-CGB
29	gK	202	PEB	C3B-CAB-CBB-CGB
31	JF	1001	CYC	C2A-CAA-CBA-CGA
31	NF	1001	CYC	C2A-CAA-CBA-CGA
31	JI	1001	CYC	C2A-CAA-CBA-CGA
31	NI	1001	CYC	C2A-CAA-CBA-CGA
29	PF	201	PEB	C2B-C3B-CAB-CBB
29	RF	201	PEB	C2B-C3B-CAB-CBB
29	VF	201	PEB	C2B-C3B-CAB-CBB
29	YF	201	PEB	C2B-C3B-CAB-CBB
29	aF	201	PEB	C2B-C3B-CAB-CBB
29	cF	201	PEB	C2B-C3B-CAB-CBB
29	eF	201	PEB	C2B-C3B-CAB-CBB
29	gF	201	PEB	C2B-C3B-CAB-CBB
29	iF	201	PEB	C2B-C3B-CAB-CBB
29	kF	201	PEB	C2B-C3B-CAB-CBB
29	mF	201	PEB	C2B-C3B-CAB-CBB
29	PI	201	PEB	C2B-C3B-CAB-CBB
29	RI	201	PEB	C2B-C3B-CAB-CBB
29	TI	201	PEB	C2B-C3B-CAB-CBB
29	VI	201	PEB	C2B-C3B-CAB-CBB
29	YI	201	PEB	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	aI	201	PEB	C2B-C3B-CAB-CBB
29	cI	201	PEB	C2B-C3B-CAB-CBB
29	eI	201	PEB	C2B-C3B-CAB-CBB
29	gI	201	PEB	C2B-C3B-CAB-CBB
29	iI	201	PEB	C2B-C3B-CAB-CBB
29	kI	201	PEB	C2B-C3B-CAB-CBB
29	mI	201	PEB	C2B-C3B-CAB-CBB
30	A1	305	PUB	C2D-C1D-CHC-C4C
30	AB	304	PUB	C2D-C1D-CHC-C4C
30	AK	305	PUB	C2D-C1D-CHC-C4C
30	AM	304	PUB	C2D-C1D-CHC-C4C
29	A1	301	PEB	C2C-CAC-CBC-CGC
29	PF	203	PEB	C2C-CAC-CBC-CGC
29	RF	202	PEB	C2C-CAC-CBC-CGC
29	TF	202	PEB	C2C-CAC-CBC-CGC
29	VF	203	PEB	C2C-CAC-CBC-CGC
29	YF	203	PEB	C2C-CAC-CBC-CGC
29	aF	203	PEB	C2C-CAC-CBC-CGC
29	cF	202	PEB	C2C-CAC-CBC-CGC
29	eF	203	PEB	C2C-CAC-CBC-CGC
29	gF	203	PEB	C2C-CAC-CBC-CGC
29	iF	203	PEB	C2C-CAC-CBC-CGC
29	kF	203	PEB	C2C-CAC-CBC-CGC
29	mF	203	PEB	C2C-CAC-CBC-CGC
29	PI	203	PEB	C2C-CAC-CBC-CGC
29	RI	202	PEB	C2C-CAC-CBC-CGC
29	TI	202	PEB	C2C-CAC-CBC-CGC
29	VI	203	PEB	C2C-CAC-CBC-CGC
29	YI	203	PEB	C2C-CAC-CBC-CGC
29	aI	203	PEB	C2C-CAC-CBC-CGC
29	cI	202	PEB	C2C-CAC-CBC-CGC
29	eI	203	PEB	C2C-CAC-CBC-CGC
29	gI	203	PEB	C2C-CAC-CBC-CGC
29	iI	203	PEB	C2C-CAC-CBC-CGC
29	kI	203	PEB	C2C-CAC-CBC-CGC
29	mI	203	PEB	C2C-CAC-CBC-CGC
29	AK	301	PEB	C2C-CAC-CBC-CGC
29	AF	301	PEB	C2D-C3D-CAD-CBD
29	AI	301	PEB	C2D-C3D-CAD-CBD
29	BG	201	PEB	C3B-CAB-CBB-CGB
29	DG	201	PEB	C3B-CAB-CBB-CGB
29	FG	201	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	HG	201	PEB	C3B-CAB-CBB-CGB
29	JG	201	PEB	C3B-CAB-CBB-CGB
29	LG	201	PEB	C3B-CAB-CBB-CGB
29	BQ	201	PEB	C3B-CAB-CBB-CGB
29	DQ	201	PEB	C3B-CAB-CBB-CGB
29	FQ	201	PEB	C3B-CAB-CBB-CGB
29	HQ	201	PEB	C3B-CAB-CBB-CGB
29	JQ	201	PEB	C3B-CAB-CBB-CGB
29	MQ	402	PEB	C3B-CAB-CBB-CGB
29	P1	201	PEB	C2B-C3B-CAB-CBB
29	R1	201	PEB	C2B-C3B-CAB-CBB
29	T1	201	PEB	C2B-C3B-CAB-CBB
29	V1	201	PEB	C2B-C3B-CAB-CBB
29	Y1	201	PEB	C2B-C3B-CAB-CBB
29	a1	201	PEB	C2B-C3B-CAB-CBB
29	c1	201	PEB	C2B-C3B-CAB-CBB
29	e1	201	PEB	C2B-C3B-CAB-CBB
29	g1	201	PEB	C2B-C3B-CAB-CBB
29	i1	201	PEB	C2B-C3B-CAB-CBB
29	k1	201	PEB	C2B-C3B-CAB-CBB
29	m1	201	PEB	C2B-C3B-CAB-CBB
29	PK	201	PEB	C2B-C3B-CAB-CBB
29	RK	201	PEB	C2B-C3B-CAB-CBB
29	TK	201	PEB	C2B-C3B-CAB-CBB
29	VK	201	PEB	C2B-C3B-CAB-CBB
29	YK	201	PEB	C2B-C3B-CAB-CBB
29	aK	201	PEB	C2B-C3B-CAB-CBB
29	cK	201	PEB	C2B-C3B-CAB-CBB
29	eK	201	PEB	C2B-C3B-CAB-CBB
29	gK	201	PEB	C2B-C3B-CAB-CBB
29	iK	201	PEB	C2B-C3B-CAB-CBB
29	kK	201	PEB	C2B-C3B-CAB-CBB
29	mK	201	PEB	C2B-C3B-CAB-CBB
30	A1	305	PUB	C2D-C3D-CAD-CBD
30	AK	305	PUB	C2D-C3D-CAD-CBD
29	e2	401	PEB	C2A-C3A-CAA-CBA
29	D3	202	PEB	ND-C1D-CHC-C4C
29	B4	202	PEB	ND-C1D-CHC-C4C
29	D4	202	PEB	ND-C1D-CHC-C4C
29	F4	202	PEB	ND-C1D-CHC-C4C
29	H4	202	PEB	ND-C1D-CHC-C4C
29	J4	202	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	L4	202	PEB	ND-C1D-CHC-C4C
29	M4	203	PEB	ND-C1D-CHC-C4C
29	J5	202	PEB	ND-C1D-CHC-C4C
29	A7	301	PEB	C2A-C3A-CAA-CBA
29	D7	1002	PEB	ND-C1D-CHC-C4C
29	F7	1002	PEB	ND-C1D-CHC-C4C
29	H7	1002	PEB	ND-C1D-CHC-C4C
29	J7	1002	PEB	ND-C1D-CHC-C4C
29	L7	1002	PEB	ND-C1D-CHC-C4C
29	N7	1002	PEB	ND-C1D-CHC-C4C
29	J8	202	PEB	ND-C1D-CHC-C4C
29	A9	301	PEB	C2A-C3A-CAA-CBA
29	D9	1002	PEB	ND-C1D-CHC-C4C
29	F9	1002	PEB	ND-C1D-CHC-C4C
29	H9	1002	PEB	ND-C1D-CHC-C4C
29	J9	1002	PEB	ND-C1D-CHC-C4C
29	L9	1002	PEB	ND-C1D-CHC-C4C
29	N9	1002	PEB	ND-C1D-CHC-C4C
29	AB	303	PEB	ND-C1D-CHC-C4C
29	BB	301	PEB	ND-C1D-CHC-C4C
29	BD	202	PEB	ND-C1D-CHC-C4C
29	DD	202	PEB	ND-C1D-CHC-C4C
29	FD	202	PEB	ND-C1D-CHC-C4C
29	HD	202	PEB	ND-C1D-CHC-C4C
29	JD	202	PEB	ND-C1D-CHC-C4C
29	LD	202	PEB	ND-C1D-CHC-C4C
29	AF	301	PEB	ND-C1D-CHC-C4C
29	AI	301	PEB	ND-C1D-CHC-C4C
29	AJ	201	PEB	ND-C1D-CHC-C4C
29	AJ	203	PEB	C2C-CAC-CBC-CGC
29	BJ	202	PEB	C2C-CAC-CBC-CGC
29	CJ	201	PEB	ND-C1D-CHC-C4C
29	EJ	201	PEB	ND-C1D-CHC-C4C
29	FJ	202	PEB	C2C-CAC-CBC-CGC
29	GJ	201	PEB	ND-C1D-CHC-C4C
29	HJ	201	PEB	C2C-CAC-CBC-CGC
29	IJ	201	PEB	ND-C1D-CHC-C4C
29	IJ	203	PEB	C2C-CAC-CBC-CGC
29	JJ	202	PEB	C2C-CAC-CBC-CGC
29	KJ	201	PEB	ND-C1D-CHC-C4C
29	MJ	201	PEB	ND-C1D-CHC-C4C
29	NJ	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	OJ	201	PEB	ND-C1D-CHC-C4C
29	PJ	202	PEB	C2C-CAC-CBC-CGC
29	QJ	201	PEB	ND-C1D-CHC-C4C
29	SJ	201	PEB	ND-C1D-CHC-C4C
29	TJ	202	PEB	C2C-CAC-CBC-CGC
29	UJ	201	PEB	ND-C1D-CHC-C4C
29	WJ	201	PEB	C2C-CAC-CBC-CGC
29	WJ	202	PEB	ND-C1D-CHC-C4C
29	XJ	202	PEB	C2C-CAC-CBC-CGC
29	YJ	201	PEB	ND-C1D-CHC-C4C
29	ZJ	202	PEB	C2C-CAC-CBC-CGC
29	aJ	201	PEB	ND-C1D-CHC-C4C
29	bJ	202	PEB	C2C-CAC-CBC-CGC
29	cJ	201	PEB	ND-C1D-CHC-C4C
29	dJ	202	PEB	C2C-CAC-CBC-CGC
29	eJ	201	PEB	ND-C1D-CHC-C4C
29	fJ	202	PEB	C2C-CAC-CBC-CGC
29	gJ	201	PEB	ND-C1D-CHC-C4C
29	hJ	202	PEB	C2C-CAC-CBC-CGC
29	iJ	201	PEB	ND-C1D-CHC-C4C
29	jJ	202	PEB	C2C-CAC-CBC-CGC
29	kJ	201	PEB	ND-C1D-CHC-C4C
29	lJ	202	PEB	C2C-CAC-CBC-CGC
29	mJ	201	PEB	ND-C1D-CHC-C4C
29	nJ	202	PEB	C2C-CAC-CBC-CGC
29	oJ	201	PEB	ND-C1D-CHC-C4C
29	pJ	202	PEB	C2C-CAC-CBC-CGC
29	qJ	201	PEB	ND-C1D-CHC-C4C
29	rJ	202	PEB	C2C-CAC-CBC-CGC
29	sJ	201	PEB	ND-C1D-CHC-C4C
29	sJ	203	PEB	C2C-CAC-CBC-CGC
29	uJ	201	PEB	C2C-CAC-CBC-CGC
29	uJ	202	PEB	ND-C1D-CHC-C4C
29	AL	201	PEB	ND-C1D-CHC-C4C
29	AL	203	PEB	C2C-CAC-CBC-CGC
29	BL	202	PEB	C2C-CAC-CBC-CGC
29	CL	201	PEB	ND-C1D-CHC-C4C
29	EL	201	PEB	ND-C1D-CHC-C4C
29	FL	202	PEB	C2C-CAC-CBC-CGC
29	GL	201	PEB	ND-C1D-CHC-C4C
29	HL	201	PEB	C2C-CAC-CBC-CGC
29	IL	201	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	IL	203	PEB	C2C-CAC-CBC-CGC
29	JL	202	PEB	C2C-CAC-CBC-CGC
29	KL	201	PEB	ND-C1D-CHC-C4C
29	ML	201	PEB	ND-C1D-CHC-C4C
29	NL	202	PEB	C2C-CAC-CBC-CGC
29	OL	201	PEB	ND-C1D-CHC-C4C
29	PL	202	PEB	C2C-CAC-CBC-CGC
29	QL	201	PEB	ND-C1D-CHC-C4C
29	SL	201	PEB	ND-C1D-CHC-C4C
29	TL	202	PEB	C2C-CAC-CBC-CGC
29	UL	201	PEB	ND-C1D-CHC-C4C
29	WL	201	PEB	C2C-CAC-CBC-CGC
29	WL	202	PEB	ND-C1D-CHC-C4C
29	XL	202	PEB	C2C-CAC-CBC-CGC
29	YL	201	PEB	ND-C1D-CHC-C4C
29	ZL	202	PEB	C2C-CAC-CBC-CGC
29	aL	201	PEB	ND-C1D-CHC-C4C
29	bL	202	PEB	C2C-CAC-CBC-CGC
29	cL	201	PEB	ND-C1D-CHC-C4C
29	dL	202	PEB	C2C-CAC-CBC-CGC
29	eL	201	PEB	ND-C1D-CHC-C4C
29	fL	202	PEB	C2C-CAC-CBC-CGC
29	gL	201	PEB	ND-C1D-CHC-C4C
29	hL	202	PEB	C2C-CAC-CBC-CGC
29	iL	201	PEB	ND-C1D-CHC-C4C
29	jL	202	PEB	C2C-CAC-CBC-CGC
29	kL	201	PEB	ND-C1D-CHC-C4C
29	lL	202	PEB	C2C-CAC-CBC-CGC
29	mL	201	PEB	ND-C1D-CHC-C4C
29	nL	202	PEB	C2C-CAC-CBC-CGC
29	oL	201	PEB	ND-C1D-CHC-C4C
29	pL	202	PEB	C2C-CAC-CBC-CGC
29	qL	201	PEB	ND-C1D-CHC-C4C
29	rL	202	PEB	C2C-CAC-CBC-CGC
29	sL	201	PEB	ND-C1D-CHC-C4C
29	sL	203	PEB	C2C-CAC-CBC-CGC
29	uL	201	PEB	C2C-CAC-CBC-CGC
29	uL	202	PEB	ND-C1D-CHC-C4C
29	AM	303	PEB	ND-C1D-CHC-C4C
29	BM	301	PEB	ND-C1D-CHC-C4C
29	DO	202	PEB	ND-C1D-CHC-C4C
29	eR	401	PEB	C2A-C3A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
29	SR	201	PEB	ND-C1D-CHC-C4C
30	A1	304	PUB	NA-C4A-CHA-C1B
30	AF	303	PUB	NA-C4A-CHA-C1B
30	AI	303	PUB	NA-C4A-CHA-C1B
30	wJ	304	PUB	NA-C4A-CHA-C1B
30	xJ	304	PUB	NA-C4A-CHA-C1B
30	yJ	303	PUB	NA-C4A-CHA-C1B
30	AK	304	PUB	NA-C4A-CHA-C1B
30	wL	304	PUB	NA-C4A-CHA-C1B
30	xL	304	PUB	NA-C4A-CHA-C1B
29	PF	203	PEB	C1C-C2C-CAC-CBC
29	PF	203	PEB	C3C-C2C-CAC-CBC
29	RF	202	PEB	C1C-C2C-CAC-CBC
29	RF	202	PEB	C3C-C2C-CAC-CBC
29	TF	202	PEB	C1C-C2C-CAC-CBC
29	TF	202	PEB	C3C-C2C-CAC-CBC
29	VF	203	PEB	C1C-C2C-CAC-CBC
29	VF	203	PEB	C3C-C2C-CAC-CBC
29	YF	203	PEB	C1C-C2C-CAC-CBC
29	YF	203	PEB	C3C-C2C-CAC-CBC
29	aF	203	PEB	C1C-C2C-CAC-CBC
29	aF	203	PEB	C3C-C2C-CAC-CBC
29	cF	202	PEB	C1C-C2C-CAC-CBC
29	cF	202	PEB	C3C-C2C-CAC-CBC
29	eF	203	PEB	C1C-C2C-CAC-CBC
29	eF	203	PEB	C3C-C2C-CAC-CBC
29	gF	203	PEB	C1C-C2C-CAC-CBC
29	gF	203	PEB	C3C-C2C-CAC-CBC
29	iF	203	PEB	C1C-C2C-CAC-CBC
29	iF	203	PEB	C3C-C2C-CAC-CBC
29	kF	203	PEB	C1C-C2C-CAC-CBC
29	kF	203	PEB	C3C-C2C-CAC-CBC
29	mF	203	PEB	C1C-C2C-CAC-CBC
29	mF	203	PEB	C3C-C2C-CAC-CBC
29	PI	203	PEB	C1C-C2C-CAC-CBC
29	PI	203	PEB	C3C-C2C-CAC-CBC
29	RI	202	PEB	C1C-C2C-CAC-CBC
29	RI	202	PEB	C3C-C2C-CAC-CBC
29	TI	202	PEB	C1C-C2C-CAC-CBC
29	TI	202	PEB	C3C-C2C-CAC-CBC
29	VI	203	PEB	C1C-C2C-CAC-CBC
29	VI	203	PEB	C3C-C2C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
29	YI	203	PEB	C1C-C2C-CAC-CBC
29	YI	203	PEB	C3C-C2C-CAC-CBC
29	aI	203	PEB	C1C-C2C-CAC-CBC
29	aI	203	PEB	C3C-C2C-CAC-CBC
29	cI	202	PEB	C1C-C2C-CAC-CBC
29	cI	202	PEB	C3C-C2C-CAC-CBC
29	eI	203	PEB	C1C-C2C-CAC-CBC
29	eI	203	PEB	C3C-C2C-CAC-CBC
29	gI	203	PEB	C1C-C2C-CAC-CBC
29	gI	203	PEB	C3C-C2C-CAC-CBC
29	iI	203	PEB	C1C-C2C-CAC-CBC
29	iI	203	PEB	C3C-C2C-CAC-CBC
29	kI	203	PEB	C1C-C2C-CAC-CBC
29	kI	203	PEB	C3C-C2C-CAC-CBC
29	mI	203	PEB	C1C-C2C-CAC-CBC
29	mI	203	PEB	C3C-C2C-CAC-CBC
30	MA	402	PUB	ND-C1D-CHC-C4C
30	MN	402	PUB	ND-C1D-CHC-C4C
31	VP	1001	CYC	C2D-C3D-CAD-CBD
31	xP	1001	CYC	C2D-C3D-CAD-CBD
29	BJ	201	PEB	C3B-CAB-CBB-CGB
29	DJ	201	PEB	C3B-CAB-CBB-CGB
29	FJ	201	PEB	C3B-CAB-CBB-CGB
29	JJ	201	PEB	C3B-CAB-CBB-CGB
29	LJ	201	PEB	C3B-CAB-CBB-CGB
29	NJ	201	PEB	C3B-CAB-CBB-CGB
29	PJ	201	PEB	C3B-CAB-CBB-CGB
29	RJ	201	PEB	C3B-CAB-CBB-CGB
29	TJ	201	PEB	C3B-CAB-CBB-CGB
29	VJ	201	PEB	C3B-CAB-CBB-CGB
29	XJ	201	PEB	C3B-CAB-CBB-CGB
29	ZJ	201	PEB	C3B-CAB-CBB-CGB
29	bJ	201	PEB	C3B-CAB-CBB-CGB
29	dJ	201	PEB	C3B-CAB-CBB-CGB
29	fJ	201	PEB	C3B-CAB-CBB-CGB
29	hJ	201	PEB	C3B-CAB-CBB-CGB
29	jJ	201	PEB	C3B-CAB-CBB-CGB
29	lJ	201	PEB	C3B-CAB-CBB-CGB
29	nJ	201	PEB	C3B-CAB-CBB-CGB
29	pJ	201	PEB	C3B-CAB-CBB-CGB
29	rJ	201	PEB	C3B-CAB-CBB-CGB
29	tJ	201	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	vJ	201	PEB	C3B-CAB-CBB-CGB
29	BL	201	PEB	C3B-CAB-CBB-CGB
29	DL	201	PEB	C3B-CAB-CBB-CGB
29	FL	201	PEB	C3B-CAB-CBB-CGB
29	JL	201	PEB	C3B-CAB-CBB-CGB
29	LL	201	PEB	C3B-CAB-CBB-CGB
29	NL	201	PEB	C3B-CAB-CBB-CGB
29	PL	201	PEB	C3B-CAB-CBB-CGB
29	RL	201	PEB	C3B-CAB-CBB-CGB
29	TL	201	PEB	C3B-CAB-CBB-CGB
29	VL	201	PEB	C3B-CAB-CBB-CGB
29	XL	201	PEB	C3B-CAB-CBB-CGB
29	ZL	201	PEB	C3B-CAB-CBB-CGB
29	bL	201	PEB	C3B-CAB-CBB-CGB
29	dL	201	PEB	C3B-CAB-CBB-CGB
29	fL	201	PEB	C3B-CAB-CBB-CGB
29	hL	201	PEB	C3B-CAB-CBB-CGB
29	jL	201	PEB	C3B-CAB-CBB-CGB
29	lL	201	PEB	C3B-CAB-CBB-CGB
29	nL	201	PEB	C3B-CAB-CBB-CGB
29	pL	201	PEB	C3B-CAB-CBB-CGB
29	rL	201	PEB	C3B-CAB-CBB-CGB
29	tL	201	PEB	C3B-CAB-CBB-CGB
29	vL	201	PEB	C3B-CAB-CBB-CGB
29	AF	304	PEB	C2C-CAC-CBC-CGC
29	AI	304	PEB	C2C-CAC-CBC-CGC
29	RJ	202	PEB	C2C-CAC-CBC-CGC
29	RL	202	PEB	C2C-CAC-CBC-CGC
29	I4	203	PEB	CAB-CBB-CGB-O1B
29	EA	201	PEB	CAB-CBB-CGB-O1B
29	IA	201	PEB	CAB-CBB-CGB-O1B
29	EN	201	PEB	CAB-CBB-CGB-O1B
29	IN	201	PEB	CAB-CBB-CGB-O1B
29	AA	201	PEB	CAB-CBB-CGB-O1B
29	CA	201	PEB	CAB-CBB-CGB-O1B
29	GA	201	PEB	CAB-CBB-CGB-O1B
29	KA	201	PEB	CAB-CBB-CGB-O1B
29	AN	201	PEB	CAB-CBB-CGB-O1B
29	CN	201	PEB	CAB-CBB-CGB-O1B
29	GN	201	PEB	CAB-CBB-CGB-O1B
29	KN	201	PEB	CAB-CBB-CGB-O1B
29	C4	202	PEB	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
29	E4	202	PEB	C2D-C3D-CAD-CBD
29	G4	202	PEB	C2D-C3D-CAD-CBD
29	I4	202	PEB	C2D-C3D-CAD-CBD
29	K4	202	PEB	C2D-C3D-CAD-CBD
29	M4	202	PEB	C2D-C3D-CAD-CBD
29	CD	202	PEB	C2D-C3D-CAD-CBD
29	ED	201	PEB	C2D-C3D-CAD-CBD
29	GD	202	PEB	C2D-C3D-CAD-CBD
29	ID	202	PEB	C2D-C3D-CAD-CBD
29	KD	202	PEB	C2D-C3D-CAD-CBD
29	MD	202	PEB	C2D-C3D-CAD-CBD
29	MR	202	PEB	C3B-CAB-CBB-CGB
30	A1	305	PUB	C2C-CAC-CBC-CGC
30	AK	305	PUB	C2C-CAC-CBC-CGC
29	O2	202	PEB	CAB-CBB-CGB-O2B
29	U2	202	PEB	CAB-CBB-CGB-O2B
29	J5	201	PEB	CAC-CBC-CGC-O2C
29	P7	201	PEB	CAC-CBC-CGC-O2C
29	R7	201	PEB	CAC-CBC-CGC-O2C
29	T7	201	PEB	CAC-CBC-CGC-O2C
29	V7	201	PEB	CAC-CBC-CGC-O2C
29	Y7	201	PEB	CAC-CBC-CGC-O2C
29	a7	201	PEB	CAC-CBC-CGC-O2C
29	c7	201	PEB	CAC-CBC-CGC-O2C
29	e7	201	PEB	CAC-CBC-CGC-O2C
29	g7	201	PEB	CAC-CBC-CGC-O2C
29	i7	201	PEB	CAC-CBC-CGC-O2C
29	k7	201	PEB	CAC-CBC-CGC-O2C
29	m7	201	PEB	CAC-CBC-CGC-O2C
29	J8	201	PEB	CAC-CBC-CGC-O2C
29	P9	201	PEB	CAC-CBC-CGC-O2C
29	R9	201	PEB	CAC-CBC-CGC-O2C
29	T9	201	PEB	CAC-CBC-CGC-O2C
29	V9	201	PEB	CAC-CBC-CGC-O2C
29	Y9	201	PEB	CAC-CBC-CGC-O2C
29	a9	201	PEB	CAC-CBC-CGC-O2C
29	c9	201	PEB	CAC-CBC-CGC-O2C
29	e9	201	PEB	CAC-CBC-CGC-O2C
29	g9	201	PEB	CAC-CBC-CGC-O2C
29	i9	201	PEB	CAC-CBC-CGC-O2C
29	k9	201	PEB	CAC-CBC-CGC-O2C
29	m9	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	AA	201	PEB	CAC-CBC-CGC-O2C
29	CA	201	PEB	CAC-CBC-CGC-O2C
29	EA	201	PEB	CAC-CBC-CGC-O2C
29	GA	201	PEB	CAC-CBC-CGC-O2C
29	IA	201	PEB	CAC-CBC-CGC-O2C
29	KA	201	PEB	CAC-CBC-CGC-O2C
29	AC	201	PEB	CAB-CBB-CGB-O2B
29	CC	201	PEB	CAB-CBB-CGB-O2B
29	EC	201	PEB	CAB-CBB-CGB-O2B
29	GC	201	PEB	CAB-CBB-CGB-O2B
29	IC	201	PEB	CAB-CBB-CGB-O2B
29	KC	202	PEB	CAB-CBB-CGB-O2B
29	AE	201	PEB	CAB-CBB-CGB-O2B
29	CE	201	PEB	CAB-CBB-CGB-O2B
29	EE	201	PEB	CAB-CBB-CGB-O2B
29	GE	201	PEB	CAB-CBB-CGB-O2B
29	IE	201	PEB	CAB-CBB-CGB-O2B
29	KE	202	PEB	CAB-CBB-CGB-O2B
29	PF	203	PEB	CAB-CBB-CGB-O2B
29	QF	202	PEB	CAB-CBB-CGB-O2B
29	RF	202	PEB	CAB-CBB-CGB-O2B
29	TF	201	PEB	CAB-CBB-CGB-O1B
29	TF	202	PEB	CAB-CBB-CGB-O2B
29	UF	203	PEB	CAB-CBB-CGB-O2B
29	VF	203	PEB	CAB-CBB-CGB-O2B
29	YF	203	PEB	CAB-CBB-CGB-O2B
29	aF	203	PEB	CAB-CBB-CGB-O2B
29	bF	202	PEB	CAB-CBB-CGB-O2B
29	cF	202	PEB	CAB-CBB-CGB-O2B
29	dF	203	PEB	CAB-CBB-CGB-O2B
29	fF	202	PEB	CAB-CBB-CGB-O2B
29	gF	203	PEB	CAB-CBB-CGB-O2B
29	jF	202	PEB	CAB-CBB-CGB-O2B
29	kF	203	PEB	CAB-CBB-CGB-O2B
29	mF	203	PEB	CAB-CBB-CGB-O2B
29	PI	203	PEB	CAB-CBB-CGB-O2B
29	QI	202	PEB	CAB-CBB-CGB-O2B
29	RI	202	PEB	CAB-CBB-CGB-O2B
29	TI	202	PEB	CAB-CBB-CGB-O2B
29	UI	203	PEB	CAB-CBB-CGB-O2B
29	VI	203	PEB	CAB-CBB-CGB-O2B
29	YI	203	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	aI	203	PEB	CAB-CBB-CGB-O2B
29	bI	202	PEB	CAB-CBB-CGB-O2B
29	cI	202	PEB	CAB-CBB-CGB-O2B
29	dI	203	PEB	CAB-CBB-CGB-O2B
29	fI	202	PEB	CAB-CBB-CGB-O2B
29	gI	203	PEB	CAB-CBB-CGB-O2B
29	jI	202	PEB	CAB-CBB-CGB-O2B
29	kI	203	PEB	CAB-CBB-CGB-O2B
29	mI	203	PEB	CAB-CBB-CGB-O2B
29	AJ	201	PEB	CAC-CBC-CGC-O2C
29	CJ	201	PEB	CAC-CBC-CGC-O2C
29	GJ	201	PEB	CAC-CBC-CGC-O2C
29	IJ	201	PEB	CAC-CBC-CGC-O2C
29	KJ	201	PEB	CAC-CBC-CGC-O2C
29	MJ	201	PEB	CAC-CBC-CGC-O2C
29	OJ	201	PEB	CAC-CBC-CGC-O2C
29	WJ	202	PEB	CAC-CBC-CGC-O2C
29	YJ	201	PEB	CAC-CBC-CGC-O2C
29	aJ	201	PEB	CAC-CBC-CGC-O2C
29	cJ	201	PEB	CAC-CBC-CGC-O2C
29	gJ	201	PEB	CAC-CBC-CGC-O2C
29	iJ	201	PEB	CAC-CBC-CGC-O2C
29	kJ	201	PEB	CAC-CBC-CGC-O2C
29	oJ	201	PEB	CAC-CBC-CGC-O2C
29	sJ	201	PEB	CAC-CBC-CGC-O2C
29	uJ	202	PEB	CAC-CBC-CGC-O2C
29	AL	201	PEB	CAC-CBC-CGC-O2C
29	CL	201	PEB	CAC-CBC-CGC-O2C
29	GL	201	PEB	CAC-CBC-CGC-O2C
29	IL	201	PEB	CAC-CBC-CGC-O2C
29	KL	201	PEB	CAC-CBC-CGC-O2C
29	ML	201	PEB	CAC-CBC-CGC-O2C
29	OL	201	PEB	CAC-CBC-CGC-O2C
29	WL	202	PEB	CAC-CBC-CGC-O2C
29	YL	201	PEB	CAC-CBC-CGC-O2C
29	aL	201	PEB	CAC-CBC-CGC-O2C
29	cL	201	PEB	CAC-CBC-CGC-O2C
29	gL	201	PEB	CAC-CBC-CGC-O2C
29	iL	201	PEB	CAC-CBC-CGC-O2C
29	kL	201	PEB	CAC-CBC-CGC-O2C
29	oL	201	PEB	CAC-CBC-CGC-O2C
29	sL	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	uL	202	PEB	CAC-CBC-CGC-O2C
29	AN	201	PEB	CAC-CBC-CGC-O2C
29	CN	201	PEB	CAC-CBC-CGC-O2C
29	EN	201	PEB	CAC-CBC-CGC-O2C
29	GN	201	PEB	CAC-CBC-CGC-O2C
29	IN	201	PEB	CAC-CBC-CGC-O2C
29	KN	201	PEB	CAC-CBC-CGC-O2C
30	AB	305	PUB	CAC-CBC-CGC-O2C
30	AM	305	PUB	CAC-CBC-CGC-O2C
29	A1	301	PEB	C2D-C1D-CHC-C4C
29	M2	202	PEB	C2D-C1D-CHC-C4C
29	O2	202	PEB	C2D-C1D-CHC-C4C
29	Q2	202	PEB	C2D-C1D-CHC-C4C
29	S2	202	PEB	C2D-C1D-CHC-C4C
29	U2	202	PEB	C2D-C1D-CHC-C4C
29	W2	202	PEB	C2D-C1D-CHC-C4C
29	B4	202	PEB	C2D-C1D-CHC-C4C
29	D4	202	PEB	C2D-C1D-CHC-C4C
29	F4	202	PEB	C2D-C1D-CHC-C4C
29	H4	202	PEB	C2D-C1D-CHC-C4C
29	J4	202	PEB	C2D-C1D-CHC-C4C
29	L4	202	PEB	C2D-C1D-CHC-C4C
29	L5	202	PEB	C2D-C1D-CHC-C4C
29	B8	202	PEB	C2D-C1D-CHC-C4C
29	F8	202	PEB	C2D-C1D-CHC-C4C
29	L8	202	PEB	C2D-C1D-CHC-C4C
29	BD	202	PEB	C2D-C1D-CHC-C4C
29	DD	202	PEB	C2D-C1D-CHC-C4C
29	FD	202	PEB	C2D-C1D-CHC-C4C
29	HD	202	PEB	C2D-C1D-CHC-C4C
29	JD	202	PEB	C2D-C1D-CHC-C4C
29	LD	202	PEB	C2D-C1D-CHC-C4C
29	AK	301	PEB	C2D-C1D-CHC-C4C
29	QR	202	PEB	C2D-C1D-CHC-C4C
29	SR	202	PEB	C2D-C1D-CHC-C4C
29	UR	202	PEB	C2D-C1D-CHC-C4C
29	WR	202	PEB	C2D-C1D-CHC-C4C
29	Q2	202	PEB	CAB-CBB-CGB-O2B
29	S2	202	PEB	CAB-CBB-CGB-O2B
29	W2	202	PEB	CAB-CBB-CGB-O2B
29	K8	202	PEB	CAB-CBB-CGB-O2B
29	C8	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	DF	1002	PEB	CAC-CBC-CGC-O2C
29	HF	1002	PEB	CAC-CBC-CGC-O2C
29	JF	1002	PEB	CAC-CBC-CGC-O2C
29	LF	1002	PEB	CAC-CBC-CGC-O2C
29	NF	1002	PEB	CAC-CBC-CGC-O2C
29	eF	203	PEB	CAB-CBB-CGB-O2B
29	iF	203	PEB	CAB-CBB-CGB-O2B
29	DI	1002	PEB	CAC-CBC-CGC-O2C
29	HI	1002	PEB	CAC-CBC-CGC-O2C
29	JI	1002	PEB	CAC-CBC-CGC-O2C
29	LI	1002	PEB	CAC-CBC-CGC-O2C
29	NI	1002	PEB	CAC-CBC-CGC-O2C
29	eI	203	PEB	CAB-CBB-CGB-O2B
29	iI	203	PEB	CAB-CBB-CGB-O2B
29	QJ	201	PEB	CAC-CBC-CGC-O2C
29	eJ	201	PEB	CAC-CBC-CGC-O2C
29	qJ	201	PEB	CAC-CBC-CGC-O2C
29	wJ	301	PEB	CAB-CBB-CGB-O2B
29	xJ	301	PEB	CAB-CBB-CGB-O2B
29	QL	201	PEB	CAC-CBC-CGC-O2C
29	eL	201	PEB	CAC-CBC-CGC-O2C
29	qL	201	PEB	CAC-CBC-CGC-O2C
29	wL	301	PEB	CAB-CBB-CGB-O2B
29	xL	301	PEB	CAB-CBB-CGB-O2B
29	MQ	407	PEB	CAB-CBB-CGB-O2B
29	QR	202	PEB	CAB-CBB-CGB-O2B
29	SR	202	PEB	CAB-CBB-CGB-O2B
29	UR	202	PEB	CAB-CBB-CGB-O2B
29	WR	202	PEB	CAB-CBB-CGB-O2B
29	A3	202	PEB	CAC-CBC-CGC-O2C
29	C3	202	PEB	CAC-CBC-CGC-O2C
29	I3	202	PEB	CAC-CBC-CGC-O2C
29	M4	203	PEB	CAC-CBC-CGC-O1C
29	I5	202	PEB	CAB-CBB-CGB-O2B
29	K5	202	PEB	CAB-CBB-CGB-O2B
29	A5	202	PEB	CAB-CBB-CGB-O2B
29	C5	202	PEB	CAB-CBB-CGB-O2B
29	I8	202	PEB	CAB-CBB-CGB-O2B
29	MA	404	PEB	CAB-CBB-CGB-O2B
29	FF	1002	PEB	CAC-CBC-CGC-O2C
29	SF	202	PEB	CAB-CBB-CGB-O2B
29	TF	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	WF	202	PEB	CAB-CBB-CGB-O2B
29	ZF	202	PEB	CAB-CBB-CGB-O2B
29	hF	202	PEB	CAB-CBB-CGB-O2B
29	lF	202	PEB	CAB-CBB-CGB-O2B
29	MG	405	PEB	CAB-CBB-CGB-O2B
29	FI	1002	PEB	CAC-CBC-CGC-O2C
29	SI	202	PEB	CAB-CBB-CGB-O2B
29	WI	202	PEB	CAB-CBB-CGB-O2B
29	ZI	202	PEB	CAB-CBB-CGB-O2B
29	hI	202	PEB	CAB-CBB-CGB-O2B
29	II	202	PEB	CAB-CBB-CGB-O2B
29	SJ	201	PEB	CAC-CBC-CGC-O2C
29	mJ	201	PEB	CAC-CBC-CGC-O2C
29	SL	201	PEB	CAC-CBC-CGC-O2C
29	mL	201	PEB	CAC-CBC-CGC-O2C
29	AO	202	PEB	CAC-CBC-CGC-O2C
29	CO	202	PEB	CAC-CBC-CGC-O2C
29	IO	202	PEB	CAC-CBC-CGC-O2C
30	MG	403	PUB	C4A-C3A-CAA-CBA
29	e2	402	PEB	CAB-CBB-CGB-O1B
29	M2	202	PEB	CAB-CBB-CGB-O2B
29	N2	201	PEB	CAB-CBB-CGB-O1B
29	E3	202	PEB	CAC-CBC-CGC-O2C
29	G3	202	PEB	CAC-CBC-CGC-O2C
29	K3	202	PEB	CAC-CBC-CGC-O2C
29	B4	202	PEB	CAC-CBC-CGC-O1C
29	D4	202	PEB	CAC-CBC-CGC-O1C
29	F4	202	PEB	CAC-CBC-CGC-O1C
29	H4	202	PEB	CAC-CBC-CGC-O1C
29	J4	202	PEB	CAC-CBC-CGC-O1C
29	L4	202	PEB	CAC-CBC-CGC-O1C
29	A7	301	PEB	CAB-CBB-CGB-O2B
29	A8	202	PEB	CAB-CBB-CGB-O2B
29	A9	301	PEB	CAB-CBB-CGB-O2B
29	MA	405	PEB	CAB-CBB-CGB-O1B
29	AB	303	PEB	CAC-CBC-CGC-O2C
29	CB	201	PEB	CAC-CBC-CGC-O1C
29	EB	201	PEB	CAC-CBC-CGC-O1C
29	GB	201	PEB	CAC-CBC-CGC-O1C
29	IB	201	PEB	CAC-CBC-CGC-O1C
29	KB	201	PEB	CAC-CBC-CGC-O1C
29	MB	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	OB	201	PEB	CAC-CBC-CGC-O1C
29	QB	203	PEB	CAC-CBC-CGC-O1C
29	SB	201	PEB	CAC-CBC-CGC-O1C
29	UB	201	PEB	CAC-CBC-CGC-O1C
29	WB	201	PEB	CAC-CBC-CGC-O1C
29	YB	202	PEB	CAC-CBC-CGC-O1C
29	aB	201	PEB	CAC-CBC-CGC-O1C
29	dB	201	PEB	CAC-CBC-CGC-O1C
29	fB	201	PEB	CAC-CBC-CGC-O1C
29	hB	201	PEB	CAC-CBC-CGC-O1C
29	jB	201	PEB	CAC-CBC-CGC-O1C
29	lB	201	PEB	CAC-CBC-CGC-O1C
29	BD	202	PEB	CAC-CBC-CGC-O1C
29	DD	202	PEB	CAC-CBC-CGC-O1C
29	FD	202	PEB	CAC-CBC-CGC-O1C
29	HD	202	PEB	CAC-CBC-CGC-O1C
29	JD	202	PEB	CAC-CBC-CGC-O1C
29	LD	202	PEB	CAC-CBC-CGC-O1C
29	OF	202	PEB	CAB-CBB-CGB-O2B
29	OI	202	PEB	CAB-CBB-CGB-O2B
29	EJ	201	PEB	CAC-CBC-CGC-O2C
29	UJ	201	PEB	CAC-CBC-CGC-O2C
29	EL	201	PEB	CAC-CBC-CGC-O2C
29	UL	201	PEB	CAC-CBC-CGC-O2C
29	AM	303	PEB	CAC-CBC-CGC-O2C
29	CM	201	PEB	CAC-CBC-CGC-O1C
29	EM	201	PEB	CAC-CBC-CGC-O1C
29	GM	201	PEB	CAC-CBC-CGC-O1C
29	IM	201	PEB	CAC-CBC-CGC-O1C
29	KM	201	PEB	CAC-CBC-CGC-O1C
29	MM	201	PEB	CAC-CBC-CGC-O1C
29	OM	201	PEB	CAC-CBC-CGC-O1C
29	QM	203	PEB	CAC-CBC-CGC-O1C
29	SM	201	PEB	CAC-CBC-CGC-O1C
29	UM	201	PEB	CAC-CBC-CGC-O1C
29	WM	201	PEB	CAC-CBC-CGC-O1C
29	YM	202	PEB	CAC-CBC-CGC-O1C
29	aM	201	PEB	CAC-CBC-CGC-O1C
29	dM	201	PEB	CAC-CBC-CGC-O1C
29	fM	201	PEB	CAC-CBC-CGC-O1C
29	hM	201	PEB	CAC-CBC-CGC-O1C
29	jM	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	IM	201	PEB	CAC-CBC-CGC-O1C
29	MN	404	PEB	CAB-CBB-CGB-O2B
29	EO	202	PEB	CAC-CBC-CGC-O2C
29	GO	202	PEB	CAC-CBC-CGC-O2C
29	KO	202	PEB	CAC-CBC-CGC-O2C
30	MG	402	PUB	CAC-CBC-CGC-O2C
30	MQ	404	PUB	CAC-CBC-CGC-O2C
31	E7	1001	CYC	CAA-CBA-CGA-O1A
31	I7	1001	CYC	CAA-CBA-CGA-O1A
31	K7	1001	CYC	CAA-CBA-CGA-O1A
31	M7	1001	CYC	CAA-CBA-CGA-O1A
31	E9	1001	CYC	CAA-CBA-CGA-O1A
31	I9	1001	CYC	CAA-CBA-CGA-O1A
31	M9	1001	CYC	CAA-CBA-CGA-O1A
31	DF	1001	CYC	CAA-CBA-CGA-O1A
31	FF	1001	CYC	CAA-CBA-CGA-O1A
31	HF	1001	CYC	CAA-CBA-CGA-O1A
31	JF	1001	CYC	CAA-CBA-CGA-O1A
31	LF	1001	CYC	CAA-CBA-CGA-O1A
31	NF	1001	CYC	CAA-CBA-CGA-O1A
31	DI	1001	CYC	CAA-CBA-CGA-O1A
31	FI	1001	CYC	CAA-CBA-CGA-O1A
31	HI	1001	CYC	CAA-CBA-CGA-O1A
31	JI	1001	CYC	CAA-CBA-CGA-O1A
31	LI	1001	CYC	CAA-CBA-CGA-O1A
31	NI	1001	CYC	CAA-CBA-CGA-O1A
30	MQ	405	PUB	C4A-C3A-CAA-CBA
29	A1	302	PEB	CAC-CBC-CGC-O1C
29	S1	202	PEB	CAC-CBC-CGC-O2C
29	W1	202	PEB	CAC-CBC-CGC-O2C
29	c1	202	PEB	CAC-CBC-CGC-O2C
29	d1	202	PEB	CAC-CBC-CGC-O2C
29	g1	202	PEB	CAC-CBC-CGC-O2C
29	h1	202	PEB	CAC-CBC-CGC-O2C
29	i1	202	PEB	CAC-CBC-CGC-O2C
29	e2	402	PEB	CAC-CBC-CGC-O1C
29	N2	201	PEB	CAC-CBC-CGC-O1C
29	R2	201	PEB	CAC-CBC-CGC-O1C
29	T2	201	PEB	CAC-CBC-CGC-O1C
29	V2	201	PEB	CAC-CBC-CGC-O1C
29	N3	202	PEB	CAC-CBC-CGC-O2C
29	B5	203	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	F5	203	PEB	CAC-CBC-CGC-O1C
29	G5	203	PEB	CAC-CBC-CGC-O1C
29	H5	203	PEB	CAC-CBC-CGC-O1C
29	L5	203	PEB	CAC-CBC-CGC-O1C
29	B8	203	PEB	CAC-CBC-CGC-O1C
29	F8	203	PEB	CAC-CBC-CGC-O1C
29	G8	203	PEB	CAC-CBC-CGC-O1C
29	H8	203	PEB	CAC-CBC-CGC-O1C
29	L8	203	PEB	CAC-CBC-CGC-O1C
29	MA	401	PEB	CAC-CBC-CGC-O1C
29	MA	404	PEB	CAB-CBB-CGB-O1B
29	MA	405	PEB	CAC-CBC-CGC-O1C
29	BC	202	PEB	CAC-CBC-CGC-O1C
29	FC	202	PEB	CAC-CBC-CGC-O1C
29	HC	202	PEB	CAC-CBC-CGC-O1C
29	KC	201	PEB	CAC-CBC-CGC-O1C
29	BE	202	PEB	CAC-CBC-CGC-O1C
29	FE	202	PEB	CAC-CBC-CGC-O1C
29	HE	202	PEB	CAC-CBC-CGC-O1C
29	KE	201	PEB	CAC-CBC-CGC-O1C
29	AF	301	PEB	CAB-CBB-CGB-O1B
29	HF	1002	PEB	CAC-CBC-CGC-O1C
29	AI	301	PEB	CAB-CBB-CGB-O1B
29	HI	1002	PEB	CAC-CBC-CGC-O1C
29	AJ	203	PEB	CAC-CBC-CGC-O1C
29	BJ	202	PEB	CAC-CBC-CGC-O1C
29	HJ	201	PEB	CAC-CBC-CGC-O1C
29	IJ	203	PEB	CAC-CBC-CGC-O1C
29	JJ	202	PEB	CAC-CBC-CGC-O1C
29	NJ	202	PEB	CAC-CBC-CGC-O1C
29	RJ	202	PEB	CAC-CBC-CGC-O1C
29	XJ	202	PEB	CAC-CBC-CGC-O1C
29	ZJ	202	PEB	CAC-CBC-CGC-O1C
29	bJ	202	PEB	CAC-CBC-CGC-O1C
29	dJ	202	PEB	CAC-CBC-CGC-O1C
29	jJ	202	PEB	CAC-CBC-CGC-O1C
29	lJ	202	PEB	CAC-CBC-CGC-O1C
29	nJ	202	PEB	CAC-CBC-CGC-O1C
29	pJ	202	PEB	CAC-CBC-CGC-O1C
29	rJ	202	PEB	CAC-CBC-CGC-O1C
29	wJ	303	PEB	CAB-CBB-CGB-O1B
29	xJ	303	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	yJ	301	PEB	CAC-CBC-CGC-O1C
29	yJ	301	PEB	CAB-CBB-CGB-O1B
29	AK	302	PEB	CAC-CBC-CGC-O1C
29	SK	202	PEB	CAC-CBC-CGC-O2C
29	WK	202	PEB	CAC-CBC-CGC-O2C
29	cK	202	PEB	CAC-CBC-CGC-O2C
29	dK	202	PEB	CAC-CBC-CGC-O2C
29	gK	202	PEB	CAC-CBC-CGC-O2C
29	hK	202	PEB	CAC-CBC-CGC-O2C
29	iK	202	PEB	CAC-CBC-CGC-O2C
29	AL	203	PEB	CAC-CBC-CGC-O1C
29	BL	202	PEB	CAC-CBC-CGC-O1C
29	HL	201	PEB	CAC-CBC-CGC-O1C
29	IL	203	PEB	CAC-CBC-CGC-O1C
29	JL	202	PEB	CAC-CBC-CGC-O1C
29	NL	202	PEB	CAC-CBC-CGC-O1C
29	RL	202	PEB	CAC-CBC-CGC-O1C
29	XL	202	PEB	CAC-CBC-CGC-O1C
29	ZL	202	PEB	CAC-CBC-CGC-O1C
29	bL	202	PEB	CAC-CBC-CGC-O1C
29	dL	202	PEB	CAC-CBC-CGC-O1C
29	jL	202	PEB	CAC-CBC-CGC-O1C
29	lL	202	PEB	CAC-CBC-CGC-O1C
29	nL	202	PEB	CAC-CBC-CGC-O1C
29	pL	202	PEB	CAC-CBC-CGC-O1C
29	rL	202	PEB	CAC-CBC-CGC-O1C
29	wL	303	PEB	CAB-CBB-CGB-O1B
29	xL	303	PEB	CAB-CBB-CGB-O1B
29	yL	301	PEB	CAC-CBC-CGC-O1C
29	yL	301	PEB	CAB-CBB-CGB-O1B
29	MN	401	PEB	CAC-CBC-CGC-O1C
29	MN	404	PEB	CAB-CBB-CGB-O1B
29	MN	405	PEB	CAC-CBC-CGC-O1C
29	MN	405	PEB	CAB-CBB-CGB-O1B
29	NR	201	PEB	CAC-CBC-CGC-O1C
29	RR	201	PEB	CAC-CBC-CGC-O1C
29	RR	201	PEB	CAB-CBB-CGB-O1B
29	TR	201	PEB	CAC-CBC-CGC-O1C
29	VR	201	PEB	CAC-CBC-CGC-O1C
29	VR	201	PEB	CAB-CBB-CGB-O1B
29	XR	201	PEB	CAC-CBC-CGC-O1C
29	XR	201	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
30	A1	305	PUB	CAC-CBC-CGC-O1C
30	AB	305	PUB	CAC-CBC-CGC-O1C
30	AK	305	PUB	CAC-CBC-CGC-O1C
31	C7	1001	CYC	CAA-CBA-CGA-O1A
31	G7	1001	CYC	CAA-CBA-CGA-O1A
31	C9	1001	CYC	CAA-CBA-CGA-O1A
31	G9	1001	CYC	CAA-CBA-CGA-O1A
31	K9	1001	CYC	CAA-CBA-CGA-O1A
29	A1	301	PEB	CAC-CBC-CGC-O1C
29	A1	301	PEB	CAB-CBB-CGB-O2B
29	D1	1002	PEB	CAB-CBB-CGB-O1B
29	F1	1002	PEB	CAB-CBB-CGB-O1B
29	H1	1002	PEB	CAB-CBB-CGB-O1B
29	J1	1002	PEB	CAB-CBB-CGB-O1B
29	L1	1002	PEB	CAB-CBB-CGB-O1B
29	N1	1002	PEB	CAB-CBB-CGB-O1B
29	O1	202	PEB	CAC-CBC-CGC-O2C
29	P1	202	PEB	CAC-CBC-CGC-O1C
29	P1	202	PEB	CAC-CBC-CGC-O2C
29	Q1	202	PEB	CAC-CBC-CGC-O2C
29	R1	202	PEB	CAC-CBC-CGC-O2C
29	U1	201	PEB	CAC-CBC-CGC-O2C
29	U1	203	PEB	CAC-CBC-CGC-O2C
29	V1	202	PEB	CAC-CBC-CGC-O2C
29	Z1	201	PEB	CAC-CBC-CGC-O1C
29	Z1	201	PEB	CAC-CBC-CGC-O2C
29	Z1	203	PEB	CAC-CBC-CGC-O2C
29	a1	202	PEB	CAC-CBC-CGC-O2C
29	b1	202	PEB	CAC-CBC-CGC-O2C
29	c1	202	PEB	CAC-CBC-CGC-O1C
29	e1	202	PEB	CAC-CBC-CGC-O1C
29	e1	202	PEB	CAC-CBC-CGC-O2C
29	f1	202	PEB	CAC-CBC-CGC-O2C
29	g1	202	PEB	CAC-CBC-CGC-O1C
29	i1	202	PEB	CAC-CBC-CGC-O1C
29	j1	202	PEB	CAC-CBC-CGC-O2C
29	j1	203	PEB	CAC-CBC-CGC-O1C
29	j1	203	PEB	CAC-CBC-CGC-O2C
29	k1	202	PEB	CAC-CBC-CGC-O2C
29	l1	202	PEB	CAC-CBC-CGC-O2C
29	M2	202	PEB	CAC-CBC-CGC-O2C
29	O2	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	Q2	202	PEB	CAC-CBC-CGC-O2C
29	R2	201	PEB	CAB-CBB-CGB-O1B
29	S2	202	PEB	CAC-CBC-CGC-O2C
29	T2	201	PEB	CAB-CBB-CGB-O1B
29	U2	202	PEB	CAC-CBC-CGC-O2C
29	V2	201	PEB	CAB-CBB-CGB-O1B
29	W2	202	PEB	CAC-CBC-CGC-O2C
29	B3	202	PEB	CAB-CBB-CGB-O1B
29	D3	202	PEB	CAC-CBC-CGC-O1C
29	F3	202	PEB	CAB-CBB-CGB-O1B
29	H3	202	PEB	CAB-CBB-CGB-O1B
29	I3	203	PEB	CAB-CBB-CGB-O1B
29	J3	202	PEB	CAB-CBB-CGB-O1B
29	M3	202	PEB	CAC-CBC-CGC-O2C
29	A7	301	PEB	CAC-CBC-CGC-O1C
29	A9	301	PEB	CAC-CBC-CGC-O1C
29	BA	201	PEB	CAC-CBC-CGC-O2C
29	DA	201	PEB	CAC-CBC-CGC-O2C
29	HA	201	PEB	CAC-CBC-CGC-O2C
29	JA	201	PEB	CAC-CBC-CGC-O2C
29	LA	201	PEB	CAC-CBC-CGC-O2C
29	DB	203	PEB	CAC-CBC-CGC-O1C
29	FB	203	PEB	CAC-CBC-CGC-O1C
29	HB	203	PEB	CAC-CBC-CGC-O1C
29	LB	203	PEB	CAC-CBC-CGC-O1C
29	NB	202	PEB	CAC-CBC-CGC-O1C
29	PB	202	PEB	CAC-CBC-CGC-O1C
29	RB	203	PEB	CAC-CBC-CGC-O1C
29	TB	203	PEB	CAC-CBC-CGC-O1C
29	VB	203	PEB	CAC-CBC-CGC-O1C
29	XB	202	PEB	CAC-CBC-CGC-O1C
29	ZB	203	PEB	CAC-CBC-CGC-O1C
29	eB	202	PEB	CAC-CBC-CGC-O1C
29	gB	203	PEB	CAC-CBC-CGC-O1C
29	iB	203	PEB	CAC-CBC-CGC-O1C
29	kB	203	PEB	CAC-CBC-CGC-O1C
29	mB	203	PEB	CAC-CBC-CGC-O1C
29	AC	203	PEB	CAC-CBC-CGC-O1C
29	LC	202	PEB	CAC-CBC-CGC-O1C
29	AE	203	PEB	CAC-CBC-CGC-O1C
29	LE	202	PEB	CAC-CBC-CGC-O1C
29	AF	304	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	DF	1002	PEB	CAC-CBC-CGC-O1C
29	FF	1002	PEB	CAC-CBC-CGC-O1C
29	JF	1002	PEB	CAC-CBC-CGC-O1C
29	LF	1002	PEB	CAC-CBC-CGC-O1C
29	NF	1002	PEB	CAC-CBC-CGC-O1C
29	QF	202	PEB	CAB-CBB-CGB-O1B
29	bF	202	PEB	CAB-CBB-CGB-O1B
29	hF	202	PEB	CAB-CBB-CGB-O1B
29	jF	202	PEB	CAB-CBB-CGB-O1B
29	AG	201	PEB	CAB-CBB-CGB-O1B
29	CG	201	PEB	CAB-CBB-CGB-O1B
29	EG	201	PEB	CAB-CBB-CGB-O1B
29	GG	201	PEB	CAB-CBB-CGB-O1B
29	IG	201	PEB	CAB-CBB-CGB-O1B
29	KG	201	PEB	CAB-CBB-CGB-O1B
29	MG	401	PEB	CAB-CBB-CGB-O1B
29	AI	304	PEB	CAB-CBB-CGB-O2B
29	DI	1002	PEB	CAC-CBC-CGC-O1C
29	FI	1002	PEB	CAC-CBC-CGC-O1C
29	JI	1002	PEB	CAC-CBC-CGC-O1C
29	LI	1002	PEB	CAC-CBC-CGC-O1C
29	NI	1002	PEB	CAC-CBC-CGC-O1C
29	QI	202	PEB	CAB-CBB-CGB-O1B
29	bI	202	PEB	CAB-CBB-CGB-O1B
29	hI	202	PEB	CAB-CBB-CGB-O1B
29	jI	202	PEB	CAB-CBB-CGB-O1B
29	FJ	202	PEB	CAC-CBC-CGC-O1C
29	FJ	203	PEB	CAB-CBB-CGB-O2B
29	PJ	202	PEB	CAC-CBC-CGC-O1C
29	TJ	202	PEB	CAC-CBC-CGC-O1C
29	WJ	201	PEB	CAC-CBC-CGC-O1C
29	fJ	202	PEB	CAC-CBC-CGC-O1C
29	hJ	202	PEB	CAC-CBC-CGC-O1C
29	sJ	203	PEB	CAC-CBC-CGC-O1C
29	uJ	201	PEB	CAC-CBC-CGC-O1C
29	wJ	303	PEB	CAC-CBC-CGC-O2C
29	xJ	303	PEB	CAC-CBC-CGC-O2C
29	AK	301	PEB	CAC-CBC-CGC-O1C
29	AK	301	PEB	CAB-CBB-CGB-O2B
29	DK	1002	PEB	CAB-CBB-CGB-O1B
29	FK	1002	PEB	CAB-CBB-CGB-O1B
29	HK	1002	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	JK	1002	PEB	CAB-CBB-CGB-O1B
29	LK	1002	PEB	CAB-CBB-CGB-O1B
29	NK	1002	PEB	CAB-CBB-CGB-O1B
29	OK	202	PEB	CAC-CBC-CGC-O2C
29	PK	202	PEB	CAC-CBC-CGC-O1C
29	PK	202	PEB	CAC-CBC-CGC-O2C
29	QK	202	PEB	CAC-CBC-CGC-O2C
29	RK	202	PEB	CAC-CBC-CGC-O2C
29	UK	201	PEB	CAC-CBC-CGC-O2C
29	UK	203	PEB	CAC-CBC-CGC-O2C
29	VK	202	PEB	CAC-CBC-CGC-O2C
29	ZK	201	PEB	CAC-CBC-CGC-O1C
29	ZK	201	PEB	CAC-CBC-CGC-O2C
29	ZK	203	PEB	CAC-CBC-CGC-O2C
29	aK	202	PEB	CAC-CBC-CGC-O2C
29	bK	202	PEB	CAC-CBC-CGC-O2C
29	cK	202	PEB	CAC-CBC-CGC-O1C
29	eK	202	PEB	CAC-CBC-CGC-O1C
29	eK	202	PEB	CAC-CBC-CGC-O2C
29	fK	202	PEB	CAC-CBC-CGC-O2C
29	gK	202	PEB	CAC-CBC-CGC-O1C
29	iK	202	PEB	CAC-CBC-CGC-O1C
29	jK	202	PEB	CAC-CBC-CGC-O2C
29	jK	203	PEB	CAC-CBC-CGC-O1C
29	jK	203	PEB	CAC-CBC-CGC-O2C
29	kK	202	PEB	CAC-CBC-CGC-O2C
29	lK	202	PEB	CAC-CBC-CGC-O2C
29	FL	202	PEB	CAC-CBC-CGC-O1C
29	FL	203	PEB	CAB-CBB-CGB-O2B
29	PL	202	PEB	CAC-CBC-CGC-O1C
29	TL	202	PEB	CAC-CBC-CGC-O1C
29	WL	201	PEB	CAC-CBC-CGC-O1C
29	fL	202	PEB	CAC-CBC-CGC-O1C
29	hL	202	PEB	CAC-CBC-CGC-O1C
29	sL	203	PEB	CAC-CBC-CGC-O1C
29	uL	201	PEB	CAC-CBC-CGC-O1C
29	wL	303	PEB	CAC-CBC-CGC-O2C
29	xL	303	PEB	CAC-CBC-CGC-O2C
29	DM	203	PEB	CAC-CBC-CGC-O1C
29	FM	203	PEB	CAC-CBC-CGC-O1C
29	HM	203	PEB	CAC-CBC-CGC-O1C
29	LM	203	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	NM	202	PEB	CAC-CBC-CGC-O1C
29	PM	202	PEB	CAC-CBC-CGC-O1C
29	RM	203	PEB	CAC-CBC-CGC-O1C
29	TM	203	PEB	CAC-CBC-CGC-O1C
29	VM	203	PEB	CAC-CBC-CGC-O1C
29	XM	202	PEB	CAC-CBC-CGC-O1C
29	ZM	203	PEB	CAC-CBC-CGC-O1C
29	eM	202	PEB	CAC-CBC-CGC-O1C
29	gM	203	PEB	CAC-CBC-CGC-O1C
29	iM	203	PEB	CAC-CBC-CGC-O1C
29	kM	203	PEB	CAC-CBC-CGC-O1C
29	mM	203	PEB	CAC-CBC-CGC-O1C
29	BN	201	PEB	CAC-CBC-CGC-O2C
29	DN	201	PEB	CAC-CBC-CGC-O2C
29	HN	201	PEB	CAC-CBC-CGC-O2C
29	JN	201	PEB	CAC-CBC-CGC-O2C
29	LN	201	PEB	CAC-CBC-CGC-O2C
29	BO	202	PEB	CAB-CBB-CGB-O1B
29	DO	202	PEB	CAC-CBC-CGC-O1C
29	FO	202	PEB	CAB-CBB-CGB-O1B
29	HO	202	PEB	CAB-CBB-CGB-O1B
29	IO	203	PEB	CAB-CBB-CGB-O1B
29	JO	202	PEB	CAB-CBB-CGB-O1B
29	MO	202	PEB	CAC-CBC-CGC-O2C
29	AQ	201	PEB	CAB-CBB-CGB-O1B
29	CQ	201	PEB	CAB-CBB-CGB-O1B
29	EQ	201	PEB	CAB-CBB-CGB-O1B
29	GQ	201	PEB	CAB-CBB-CGB-O1B
29	IQ	201	PEB	CAB-CBB-CGB-O1B
29	KQ	201	PEB	CAB-CBB-CGB-O1B
29	NR	201	PEB	CAB-CBB-CGB-O1B
29	OR	202	PEB	CAC-CBC-CGC-O2C
29	QR	202	PEB	CAC-CBC-CGC-O2C
29	SR	202	PEB	CAC-CBC-CGC-O2C
29	TR	201	PEB	CAB-CBB-CGB-O1B
29	UR	202	PEB	CAC-CBC-CGC-O2C
29	WR	202	PEB	CAC-CBC-CGC-O2C
30	AM	305	PUB	CAC-CBC-CGC-O1C
31	F1	1001	CYC	CAA-CBA-CGA-O2A
31	H1	1001	CYC	CAA-CBA-CGA-O2A
31	N1	1001	CYC	CAA-CBA-CGA-O2A
31	FK	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
31	HK	1001	CYC	CAA-CBA-CGA-O2A
31	NK	1001	CYC	CAA-CBA-CGA-O2A
29	A1	303	PEB	CAC-CBC-CGC-O1C
29	O1	202	PEB	CAB-CBB-CGB-O1B
29	R1	202	PEB	CAC-CBC-CGC-O1C
29	U1	201	PEB	CAC-CBC-CGC-O1C
29	a1	202	PEB	CAC-CBC-CGC-O1C
29	k1	202	PEB	CAC-CBC-CGC-O1C
29	P2	201	PEB	CAC-CBC-CGC-O2C
29	A3	202	PEB	CAB-CBB-CGB-O2B
29	B3	203	PEB	CAB-CBB-CGB-O1B
29	C3	202	PEB	CAB-CBB-CGB-O2B
29	D3	203	PEB	CAB-CBB-CGB-O1B
29	E3	202	PEB	CAB-CBB-CGB-O2B
29	F3	202	PEB	CAC-CBC-CGC-O1C
29	F3	203	PEB	CAB-CBB-CGB-O1B
29	G3	202	PEB	CAB-CBB-CGB-O2B
29	H3	203	PEB	CAB-CBB-CGB-O1B
29	I3	202	PEB	CAB-CBB-CGB-O2B
29	J3	203	PEB	CAB-CBB-CGB-O1B
29	K3	202	PEB	CAB-CBB-CGB-O2B
29	L3	202	PEB	CAB-CBB-CGB-O1B
29	M3	202	PEB	CAC-CBC-CGC-O1C
29	N3	202	PEB	CAC-CBC-CGC-O1C
29	B5	202	PEB	CAB-CBB-CGB-O1B
29	F5	202	PEB	CAB-CBB-CGB-O1B
29	G5	202	PEB	CAB-CBB-CGB-O1B
29	H5	202	PEB	CAB-CBB-CGB-O1B
29	K5	202	PEB	CAC-CBC-CGC-O2C
29	L5	202	PEB	CAB-CBB-CGB-O1B
29	A5	202	PEB	CAC-CBC-CGC-O2C
29	C5	202	PEB	CAC-CBC-CGC-O2C
29	A7	304	PEB	CAB-CBB-CGB-O2B
29	P7	202	PEB	CAC-CBC-CGC-O1C
29	R7	202	PEB	CAC-CBC-CGC-O1C
29	T7	202	PEB	CAC-CBC-CGC-O1C
29	V7	202	PEB	CAC-CBC-CGC-O1C
29	Y7	202	PEB	CAC-CBC-CGC-O1C
29	a7	202	PEB	CAC-CBC-CGC-O1C
29	c7	202	PEB	CAC-CBC-CGC-O1C
29	e7	202	PEB	CAC-CBC-CGC-O1C
29	g7	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	i7	202	PEB	CAC-CBC-CGC-O1C
29	k7	202	PEB	CAC-CBC-CGC-O1C
29	m7	202	PEB	CAC-CBC-CGC-O1C
29	B8	202	PEB	CAB-CBB-CGB-O1B
29	F8	202	PEB	CAB-CBB-CGB-O1B
29	G8	202	PEB	CAB-CBB-CGB-O1B
29	H8	202	PEB	CAB-CBB-CGB-O1B
29	K8	202	PEB	CAC-CBC-CGC-O2C
29	L8	202	PEB	CAB-CBB-CGB-O1B
29	A8	202	PEB	CAC-CBC-CGC-O2C
29	C8	202	PEB	CAC-CBC-CGC-O2C
29	A9	304	PEB	CAB-CBB-CGB-O2B
29	P9	202	PEB	CAC-CBC-CGC-O1C
29	R9	202	PEB	CAC-CBC-CGC-O1C
29	T9	202	PEB	CAC-CBC-CGC-O1C
29	V9	202	PEB	CAC-CBC-CGC-O1C
29	Y9	202	PEB	CAC-CBC-CGC-O1C
29	a9	202	PEB	CAC-CBC-CGC-O1C
29	c9	202	PEB	CAC-CBC-CGC-O1C
29	e9	202	PEB	CAC-CBC-CGC-O1C
29	g9	202	PEB	CAC-CBC-CGC-O1C
29	i9	202	PEB	CAC-CBC-CGC-O1C
29	k9	202	PEB	CAC-CBC-CGC-O1C
29	m9	202	PEB	CAC-CBC-CGC-O1C
29	BA	201	PEB	CAC-CBC-CGC-O1C
29	DA	201	PEB	CAC-CBC-CGC-O1C
29	EA	201	PEB	CAC-CBC-CGC-O1C
29	FA	201	PEB	CAC-CBC-CGC-O1C
29	FA	201	PEB	CAC-CBC-CGC-O2C
29	HA	201	PEB	CAC-CBC-CGC-O1C
29	JA	201	PEB	CAC-CBC-CGC-O1C
29	LA	201	PEB	CAC-CBC-CGC-O1C
29	MA	404	PEB	CAC-CBC-CGC-O2C
29	CB	202	PEB	CAC-CBC-CGC-O2C
29	EB	202	PEB	CAC-CBC-CGC-O2C
29	GB	202	PEB	CAC-CBC-CGC-O2C
29	IB	202	PEB	CAC-CBC-CGC-O2C
29	JB	203	PEB	CAC-CBC-CGC-O1C
29	MB	202	PEB	CAC-CBC-CGC-O2C
29	SB	202	PEB	CAC-CBC-CGC-O2C
29	UB	202	PEB	CAC-CBC-CGC-O2C
29	YB	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	aB	202	PEB	CAC-CBC-CGC-O2C
29	cB	203	PEB	CAC-CBC-CGC-O1C
29	dB	202	PEB	CAC-CBC-CGC-O2C
29	fB	202	PEB	CAC-CBC-CGC-O2C
29	hB	202	PEB	CAC-CBC-CGC-O2C
29	jB	202	PEB	CAC-CBC-CGC-O2C
29	DC	201	PEB	CAC-CBC-CGC-O2C
29	DE	201	PEB	CAC-CBC-CGC-O2C
29	OF	202	PEB	CAB-CBB-CGB-O1B
29	SF	202	PEB	CAB-CBB-CGB-O1B
29	UF	203	PEB	CAB-CBB-CGB-O1B
29	WF	202	PEB	CAB-CBB-CGB-O1B
29	ZF	202	PEB	CAB-CBB-CGB-O1B
29	dF	203	PEB	CAB-CBB-CGB-O1B
29	fF	202	PEB	CAB-CBB-CGB-O1B
29	lF	202	PEB	CAB-CBB-CGB-O1B
29	OI	202	PEB	CAB-CBB-CGB-O1B
29	SI	202	PEB	CAB-CBB-CGB-O1B
29	UI	203	PEB	CAB-CBB-CGB-O1B
29	WI	202	PEB	CAB-CBB-CGB-O1B
29	ZI	202	PEB	CAB-CBB-CGB-O1B
29	dI	203	PEB	CAB-CBB-CGB-O1B
29	fI	202	PEB	CAB-CBB-CGB-O1B
29	II	202	PEB	CAB-CBB-CGB-O1B
29	DJ	202	PEB	CAB-CBB-CGB-O2B
29	HJ	202	PEB	CAB-CBB-CGB-O2B
29	LJ	202	PEB	CAB-CBB-CGB-O2B
29	NJ	203	PEB	CAB-CBB-CGB-O2B
29	PJ	203	PEB	CAB-CBB-CGB-O2B
29	RJ	203	PEB	CAB-CBB-CGB-O2B
29	TJ	203	PEB	CAB-CBB-CGB-O2B
29	VJ	202	PEB	CAB-CBB-CGB-O2B
29	XJ	203	PEB	CAB-CBB-CGB-O2B
29	ZJ	203	PEB	CAB-CBB-CGB-O2B
29	bJ	203	PEB	CAB-CBB-CGB-O2B
29	dJ	203	PEB	CAB-CBB-CGB-O2B
29	fJ	203	PEB	CAB-CBB-CGB-O2B
29	hJ	203	PEB	CAB-CBB-CGB-O2B
29	jJ	203	PEB	CAB-CBB-CGB-O2B
29	nJ	203	PEB	CAB-CBB-CGB-O2B
29	pJ	203	PEB	CAB-CBB-CGB-O2B
29	rJ	203	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	tJ	202	PEB	CAB-CBB-CGB-O2B
29	vJ	202	PEB	CAB-CBB-CGB-O2B
29	AK	303	PEB	CAC-CBC-CGC-O1C
29	OK	202	PEB	CAB-CBB-CGB-O1B
29	RK	202	PEB	CAC-CBC-CGC-O1C
29	UK	201	PEB	CAC-CBC-CGC-O1C
29	aK	202	PEB	CAC-CBC-CGC-O1C
29	kK	202	PEB	CAC-CBC-CGC-O1C
29	DL	202	PEB	CAB-CBB-CGB-O2B
29	HL	202	PEB	CAB-CBB-CGB-O2B
29	LL	202	PEB	CAB-CBB-CGB-O2B
29	NL	203	PEB	CAB-CBB-CGB-O2B
29	PL	203	PEB	CAB-CBB-CGB-O2B
29	RL	203	PEB	CAB-CBB-CGB-O2B
29	TL	203	PEB	CAB-CBB-CGB-O2B
29	VL	202	PEB	CAB-CBB-CGB-O2B
29	XL	203	PEB	CAB-CBB-CGB-O2B
29	ZL	203	PEB	CAB-CBB-CGB-O2B
29	bL	203	PEB	CAB-CBB-CGB-O2B
29	dL	203	PEB	CAB-CBB-CGB-O2B
29	fL	203	PEB	CAB-CBB-CGB-O2B
29	hL	203	PEB	CAB-CBB-CGB-O2B
29	jL	203	PEB	CAB-CBB-CGB-O2B
29	nL	203	PEB	CAB-CBB-CGB-O2B
29	pL	203	PEB	CAB-CBB-CGB-O2B
29	rL	203	PEB	CAB-CBB-CGB-O2B
29	tL	202	PEB	CAB-CBB-CGB-O2B
29	vL	202	PEB	CAB-CBB-CGB-O2B
29	zL	501	PEB	CAC-CBC-CGC-O1C
29	CM	202	PEB	CAC-CBC-CGC-O2C
29	EM	202	PEB	CAC-CBC-CGC-O2C
29	GM	202	PEB	CAC-CBC-CGC-O2C
29	IM	202	PEB	CAC-CBC-CGC-O2C
29	JM	203	PEB	CAC-CBC-CGC-O1C
29	MM	202	PEB	CAC-CBC-CGC-O2C
29	SM	202	PEB	CAC-CBC-CGC-O2C
29	YM	203	PEB	CAC-CBC-CGC-O2C
29	aM	202	PEB	CAC-CBC-CGC-O2C
29	cM	203	PEB	CAC-CBC-CGC-O1C
29	dM	202	PEB	CAC-CBC-CGC-O2C
29	fM	202	PEB	CAC-CBC-CGC-O2C
29	hM	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	jM	202	PEB	CAC-CBC-CGC-O2C
29	BN	201	PEB	CAC-CBC-CGC-O1C
29	DN	201	PEB	CAC-CBC-CGC-O1C
29	EN	201	PEB	CAC-CBC-CGC-O1C
29	FN	201	PEB	CAC-CBC-CGC-O1C
29	FN	201	PEB	CAC-CBC-CGC-O2C
29	HN	201	PEB	CAC-CBC-CGC-O1C
29	JN	201	PEB	CAC-CBC-CGC-O1C
29	LN	201	PEB	CAC-CBC-CGC-O1C
29	MN	404	PEB	CAC-CBC-CGC-O2C
29	AO	202	PEB	CAB-CBB-CGB-O2B
29	BO	203	PEB	CAB-CBB-CGB-O1B
29	CO	202	PEB	CAB-CBB-CGB-O2B
29	DO	203	PEB	CAB-CBB-CGB-O1B
29	EO	202	PEB	CAB-CBB-CGB-O2B
29	FO	202	PEB	CAC-CBC-CGC-O1C
29	FO	203	PEB	CAB-CBB-CGB-O1B
29	GO	202	PEB	CAB-CBB-CGB-O2B
29	HO	203	PEB	CAB-CBB-CGB-O1B
29	IO	202	PEB	CAB-CBB-CGB-O2B
29	JO	203	PEB	CAB-CBB-CGB-O1B
29	KO	202	PEB	CAB-CBB-CGB-O2B
29	LO	202	PEB	CAB-CBB-CGB-O1B
29	MO	202	PEB	CAC-CBC-CGC-O1C
29	NO	202	PEB	CAC-CBC-CGC-O1C
29	NO	202	PEB	CAC-CBC-CGC-O2C
29	MQ	401	PEB	CAC-CBC-CGC-O2C
29	MQ	403	PEB	CAB-CBB-CGB-O1B
29	SR	201	PEB	CAC-CBC-CGC-O1C
30	MG	403	PUB	CAB-CBB-CGB-O2B
30	yJ	303	PUB	CAB-CBB-CGB-O1B
30	yL	303	PUB	CAB-CBB-CGB-O1B
31	D1	1001	CYC	CAA-CBA-CGA-O2A
31	J1	1001	CYC	CAA-CBA-CGA-O2A
31	L1	1001	CYC	CAA-CBA-CGA-O2A
31	DK	1001	CYC	CAA-CBA-CGA-O2A
31	JK	1001	CYC	CAA-CBA-CGA-O2A
31	LK	1001	CYC	CAA-CBA-CGA-O2A
29	A1	302	PEB	CAB-CBB-CGB-O1B
29	S1	202	PEB	CAB-CBB-CGB-O1B
29	U1	203	PEB	CAB-CBB-CGB-O1B
29	V1	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	W1	202	PEB	CAB-CBB-CGB-O1B
29	Z1	203	PEB	CAB-CBB-CGB-O1B
29	Z1	203	PEB	CAB-CBB-CGB-O2B
29	b1	202	PEB	CAB-CBB-CGB-O1B
29	d1	202	PEB	CAB-CBB-CGB-O1B
29	f1	202	PEB	CAB-CBB-CGB-O1B
29	h1	202	PEB	CAB-CBB-CGB-O1B
29	j1	202	PEB	CAB-CBB-CGB-O1B
29	j1	202	PEB	CAB-CBB-CGB-O2B
29	l1	202	PEB	CAB-CBB-CGB-O1B
29	e2	402	PEB	CAC-CBC-CGC-O2C
29	N2	201	PEB	CAC-CBC-CGC-O2C
29	N2	202	PEB	CAC-CBC-CGC-O2C
29	R2	201	PEB	CAC-CBC-CGC-O2C
29	R2	202	PEB	CAC-CBC-CGC-O2C
29	T2	201	PEB	CAC-CBC-CGC-O2C
29	T2	202	PEB	CAC-CBC-CGC-O2C
29	V2	201	PEB	CAC-CBC-CGC-O2C
29	V2	202	PEB	CAC-CBC-CGC-O2C
29	X2	201	PEB	CAC-CBC-CGC-O2C
29	B3	202	PEB	CAC-CBC-CGC-O1C
29	H3	202	PEB	CAC-CBC-CGC-O1C
29	I3	203	PEB	CAC-CBC-CGC-O1C
29	J3	202	PEB	CAC-CBC-CGC-O1C
29	I5	201	PEB	CAC-CBC-CGC-O1C
29	I5	202	PEB	CAC-CBC-CGC-O2C
29	K5	201	PEB	CAC-CBC-CGC-O1C
29	A5	201	PEB	CAC-CBC-CGC-O1C
29	A7	305	PEB	CAB-CBB-CGB-O2B
29	P7	203	PEB	CAC-CBC-CGC-O1C
29	R7	203	PEB	CAC-CBC-CGC-O1C
29	T7	203	PEB	CAC-CBC-CGC-O1C
29	V7	203	PEB	CAC-CBC-CGC-O1C
29	Y7	203	PEB	CAC-CBC-CGC-O1C
29	a7	203	PEB	CAC-CBC-CGC-O1C
29	c7	203	PEB	CAC-CBC-CGC-O1C
29	e7	203	PEB	CAC-CBC-CGC-O1C
29	g7	203	PEB	CAC-CBC-CGC-O1C
29	k7	203	PEB	CAC-CBC-CGC-O1C
29	m7	203	PEB	CAC-CBC-CGC-O1C
29	I8	201	PEB	CAC-CBC-CGC-O1C
29	I8	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	A8	201	PEB	CAC-CBC-CGC-O1C
29	A9	305	PEB	CAB-CBB-CGB-O2B
29	P9	203	PEB	CAC-CBC-CGC-O1C
29	R9	203	PEB	CAC-CBC-CGC-O1C
29	T9	203	PEB	CAC-CBC-CGC-O1C
29	V9	203	PEB	CAC-CBC-CGC-O1C
29	Y9	203	PEB	CAC-CBC-CGC-O1C
29	a9	203	PEB	CAC-CBC-CGC-O1C
29	c9	203	PEB	CAC-CBC-CGC-O1C
29	e9	203	PEB	CAC-CBC-CGC-O1C
29	g9	203	PEB	CAC-CBC-CGC-O1C
29	k9	203	PEB	CAC-CBC-CGC-O1C
29	m9	203	PEB	CAC-CBC-CGC-O1C
29	AA	201	PEB	CAC-CBC-CGC-O1C
29	CA	201	PEB	CAC-CBC-CGC-O1C
29	GA	201	PEB	CAC-CBC-CGC-O1C
29	IA	201	PEB	CAC-CBC-CGC-O1C
29	KA	201	PEB	CAC-CBC-CGC-O1C
29	AB	301	PEB	CAB-CBB-CGB-O2B
29	KB	202	PEB	CAC-CBC-CGC-O2C
29	OB	202	PEB	CAC-CBC-CGC-O2C
29	QB	204	PEB	CAC-CBC-CGC-O2C
29	WB	202	PEB	CAC-CBC-CGC-O2C
29	LB	202	PEB	CAC-CBC-CGC-O2C
29	BC	201	PEB	CAC-CBC-CGC-O2C
29	FC	201	PEB	CAC-CBC-CGC-O2C
29	HC	201	PEB	CAC-CBC-CGC-O2C
29	JC	201	PEB	CAC-CBC-CGC-O2C
29	LC	201	PEB	CAC-CBC-CGC-O2C
29	BE	201	PEB	CAC-CBC-CGC-O2C
29	FE	201	PEB	CAC-CBC-CGC-O2C
29	HE	201	PEB	CAC-CBC-CGC-O2C
29	JE	201	PEB	CAC-CBC-CGC-O2C
29	LE	201	PEB	CAC-CBC-CGC-O2C
29	AF	305	PEB	CAB-CBB-CGB-O1B
29	OF	201	PEB	CAB-CBB-CGB-O1B
29	PF	203	PEB	CAB-CBB-CGB-O1B
29	QF	201	PEB	CAB-CBB-CGB-O1B
29	RF	202	PEB	CAB-CBB-CGB-O1B
29	SF	201	PEB	CAB-CBB-CGB-O1B
29	TF	202	PEB	CAB-CBB-CGB-O1B
29	WF	201	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	YF	203	PEB	CAB-CBB-CGB-O1B
29	ZF	201	PEB	CAB-CBB-CGB-O1B
29	aF	203	PEB	CAB-CBB-CGB-O1B
29	bF	201	PEB	CAB-CBB-CGB-O1B
29	cF	202	PEB	CAB-CBB-CGB-O1B
29	dF	202	PEB	CAB-CBB-CGB-O1B
29	eF	203	PEB	CAB-CBB-CGB-O1B
29	fF	201	PEB	CAB-CBB-CGB-O1B
29	gF	203	PEB	CAB-CBB-CGB-O1B
29	hF	201	PEB	CAB-CBB-CGB-O1B
29	iF	203	PEB	CAB-CBB-CGB-O1B
29	jF	201	PEB	CAB-CBB-CGB-O1B
29	kF	203	PEB	CAB-CBB-CGB-O1B
29	AI	305	PEB	CAB-CBB-CGB-O1B
29	OI	201	PEB	CAB-CBB-CGB-O1B
29	PI	203	PEB	CAB-CBB-CGB-O1B
29	QI	201	PEB	CAB-CBB-CGB-O1B
29	RI	202	PEB	CAB-CBB-CGB-O1B
29	SI	201	PEB	CAB-CBB-CGB-O1B
29	TI	202	PEB	CAB-CBB-CGB-O1B
29	WI	201	PEB	CAB-CBB-CGB-O1B
29	YI	203	PEB	CAB-CBB-CGB-O1B
29	ZI	201	PEB	CAB-CBB-CGB-O1B
29	aI	203	PEB	CAB-CBB-CGB-O1B
29	bI	201	PEB	CAB-CBB-CGB-O1B
29	cI	202	PEB	CAB-CBB-CGB-O1B
29	dI	202	PEB	CAB-CBB-CGB-O1B
29	eI	203	PEB	CAB-CBB-CGB-O1B
29	fI	201	PEB	CAB-CBB-CGB-O1B
29	gI	203	PEB	CAB-CBB-CGB-O1B
29	hI	201	PEB	CAB-CBB-CGB-O1B
29	iI	203	PEB	CAB-CBB-CGB-O1B
29	jI	201	PEB	CAB-CBB-CGB-O1B
29	kI	203	PEB	CAB-CBB-CGB-O1B
29	AJ	202	PEB	CAC-CBC-CGC-O1C
29	BJ	203	PEB	CAB-CBB-CGB-O2B
29	GJ	202	PEB	CAB-CBB-CGB-O2B
29	IJ	202	PEB	CAC-CBC-CGC-O1C
29	JJ	203	PEB	CAB-CBB-CGB-O2B
29	SJ	202	PEB	CAC-CBC-CGC-O1C
29	aJ	202	PEB	CAC-CBC-CGC-O1C
29	kJ	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	kJ	202	PEB	CAB-CBB-CGB-O2B
29	lJ	203	PEB	CAB-CBB-CGB-O2B
29	mJ	202	PEB	CAC-CBC-CGC-O1C
29	wJ	301	PEB	CAB-CBB-CGB-O1B
29	wJ	302	PEB	CAC-CBC-CGC-O1C
29	wJ	303	PEB	CAC-CBC-CGC-O1C
29	xJ	301	PEB	CAB-CBB-CGB-O1B
29	xJ	302	PEB	CAC-CBC-CGC-O1C
29	xJ	303	PEB	CAC-CBC-CGC-O1C
29	AK	302	PEB	CAB-CBB-CGB-O1B
29	SK	202	PEB	CAB-CBB-CGB-O1B
29	UK	203	PEB	CAB-CBB-CGB-O1B
29	VK	202	PEB	CAC-CBC-CGC-O1C
29	WK	202	PEB	CAB-CBB-CGB-O1B
29	ZK	203	PEB	CAB-CBB-CGB-O1B
29	ZK	203	PEB	CAB-CBB-CGB-O2B
29	bK	202	PEB	CAB-CBB-CGB-O1B
29	dK	202	PEB	CAB-CBB-CGB-O1B
29	fK	202	PEB	CAB-CBB-CGB-O1B
29	hK	202	PEB	CAB-CBB-CGB-O1B
29	jK	202	PEB	CAB-CBB-CGB-O1B
29	jK	202	PEB	CAB-CBB-CGB-O2B
29	lK	202	PEB	CAB-CBB-CGB-O1B
29	AL	202	PEB	CAC-CBC-CGC-O1C
29	BL	203	PEB	CAB-CBB-CGB-O2B
29	GL	202	PEB	CAB-CBB-CGB-O2B
29	IL	202	PEB	CAC-CBC-CGC-O1C
29	JL	203	PEB	CAB-CBB-CGB-O2B
29	SL	202	PEB	CAC-CBC-CGC-O1C
29	aL	202	PEB	CAC-CBC-CGC-O1C
29	kL	202	PEB	CAC-CBC-CGC-O1C
29	kL	202	PEB	CAB-CBB-CGB-O2B
29	lL	203	PEB	CAB-CBB-CGB-O2B
29	mL	202	PEB	CAC-CBC-CGC-O1C
29	wL	301	PEB	CAB-CBB-CGB-O1B
29	wL	302	PEB	CAC-CBC-CGC-O1C
29	wL	303	PEB	CAC-CBC-CGC-O1C
29	xL	301	PEB	CAB-CBB-CGB-O1B
29	xL	302	PEB	CAC-CBC-CGC-O1C
29	xL	303	PEB	CAC-CBC-CGC-O1C
29	AM	301	PEB	CAB-CBB-CGB-O2B
29	KM	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	OM	202	PEB	CAC-CBC-CGC-O2C
29	QM	204	PEB	CAC-CBC-CGC-O2C
29	WM	202	PEB	CAC-CBC-CGC-O2C
29	IM	202	PEB	CAC-CBC-CGC-O2C
29	AN	201	PEB	CAC-CBC-CGC-O1C
29	CN	201	PEB	CAC-CBC-CGC-O1C
29	GN	201	PEB	CAC-CBC-CGC-O1C
29	IN	201	PEB	CAC-CBC-CGC-O1C
29	KN	201	PEB	CAC-CBC-CGC-O1C
29	BO	202	PEB	CAC-CBC-CGC-O1C
29	HO	202	PEB	CAC-CBC-CGC-O1C
29	IO	203	PEB	CAC-CBC-CGC-O1C
29	JO	202	PEB	CAC-CBC-CGC-O1C
29	NR	201	PEB	CAC-CBC-CGC-O2C
29	NR	202	PEB	CAC-CBC-CGC-O2C
29	PR	201	PEB	CAC-CBC-CGC-O2C
29	RR	201	PEB	CAC-CBC-CGC-O2C
29	RR	202	PEB	CAC-CBC-CGC-O2C
29	TR	201	PEB	CAC-CBC-CGC-O2C
29	TR	202	PEB	CAC-CBC-CGC-O2C
29	VR	201	PEB	CAC-CBC-CGC-O2C
29	VR	202	PEB	CAC-CBC-CGC-O2C
29	XR	201	PEB	CAC-CBC-CGC-O2C
29	XR	202	PEB	CAC-CBC-CGC-O2C
30	A1	305	PUB	CAB-CBB-CGB-O2B
30	AB	305	PUB	CAB-CBB-CGB-O2B
30	BB	302	PUB	CAB-CBB-CGB-O2B
30	AF	302	PUB	CAC-CBC-CGC-O1C
30	AI	302	PUB	CAC-CBC-CGC-O1C
30	AK	305	PUB	CAB-CBB-CGB-O2B
30	AM	305	PUB	CAB-CBB-CGB-O2B
30	BM	302	PUB	CAB-CBB-CGB-O2B
30	MQ	405	PUB	CAB-CBB-CGB-O2B
29	PF	203	PEB	C3B-CAB-CBB-CGB
29	RF	202	PEB	C3B-CAB-CBB-CGB
29	TF	202	PEB	C3B-CAB-CBB-CGB
29	VF	203	PEB	C3B-CAB-CBB-CGB
29	YF	203	PEB	C3B-CAB-CBB-CGB
29	aF	203	PEB	C3B-CAB-CBB-CGB
29	cF	202	PEB	C3B-CAB-CBB-CGB
29	eF	203	PEB	C3B-CAB-CBB-CGB
29	gF	203	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	iF	203	PEB	C3B-CAB-CBB-CGB
29	kF	203	PEB	C3B-CAB-CBB-CGB
29	mF	203	PEB	C3B-CAB-CBB-CGB
29	PI	203	PEB	C3B-CAB-CBB-CGB
29	RI	202	PEB	C3B-CAB-CBB-CGB
29	TI	202	PEB	C3B-CAB-CBB-CGB
29	VI	203	PEB	C3B-CAB-CBB-CGB
29	YI	203	PEB	C3B-CAB-CBB-CGB
29	aI	203	PEB	C3B-CAB-CBB-CGB
29	cI	202	PEB	C3B-CAB-CBB-CGB
29	eI	203	PEB	C3B-CAB-CBB-CGB
29	gI	203	PEB	C3B-CAB-CBB-CGB
29	iI	203	PEB	C3B-CAB-CBB-CGB
29	kI	203	PEB	C3B-CAB-CBB-CGB
29	mI	203	PEB	C3B-CAB-CBB-CGB
29	A1	303	PEB	CAB-CBB-CGB-O1B
29	H1	1002	PEB	CAC-CBC-CGC-O2C
29	O1	202	PEB	CAB-CBB-CGB-O2B
29	Q1	202	PEB	CAB-CBB-CGB-O2B
29	S1	202	PEB	CAB-CBB-CGB-O2B
29	U1	203	PEB	CAB-CBB-CGB-O2B
29	W1	202	PEB	CAB-CBB-CGB-O2B
29	b1	202	PEB	CAB-CBB-CGB-O2B
29	d1	202	PEB	CAB-CBB-CGB-O2B
29	f1	202	PEB	CAB-CBB-CGB-O2B
29	h1	202	PEB	CAB-CBB-CGB-O2B
29	l1	202	PEB	CAB-CBB-CGB-O2B
29	M2	202	PEB	CAC-CBC-CGC-O1C
29	S2	202	PEB	CAC-CBC-CGC-O1C
29	W2	202	PEB	CAC-CBC-CGC-O1C
29	A3	202	PEB	CAB-CBB-CGB-O1B
29	C3	202	PEB	CAB-CBB-CGB-O1B
29	E3	202	PEB	CAB-CBB-CGB-O1B
29	G3	202	PEB	CAB-CBB-CGB-O1B
29	I3	202	PEB	CAB-CBB-CGB-O1B
29	K3	202	PEB	CAB-CBB-CGB-O1B
29	B5	203	PEB	CAC-CBC-CGC-O2C
29	B5	203	PEB	CAB-CBB-CGB-O1B
29	F5	203	PEB	CAC-CBC-CGC-O2C
29	F5	203	PEB	CAB-CBB-CGB-O1B
29	G5	203	PEB	CAB-CBB-CGB-O1B
29	H5	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	I5	202	PEB	CAB-CBB-CGB-O1B
29	I5	203	PEB	CAB-CBB-CGB-O1B
29	J5	201	PEB	CAC-CBC-CGC-O1C
29	K5	202	PEB	CAC-CBC-CGC-O1C
29	K5	202	PEB	CAB-CBB-CGB-O1B
29	K5	203	PEB	CAB-CBB-CGB-O1B
29	L5	203	PEB	CAB-CBB-CGB-O1B
29	A5	202	PEB	CAB-CBB-CGB-O1B
29	A5	203	PEB	CAB-CBB-CGB-O1B
29	C5	201	PEB	CAC-CBC-CGC-O1C
29	C5	202	PEB	CAB-CBB-CGB-O1B
29	C5	203	PEB	CAB-CBB-CGB-O1B
29	i7	203	PEB	CAC-CBC-CGC-O1C
29	B8	203	PEB	CAC-CBC-CGC-O2C
29	B8	203	PEB	CAB-CBB-CGB-O1B
29	F8	203	PEB	CAC-CBC-CGC-O2C
29	F8	203	PEB	CAB-CBB-CGB-O1B
29	G8	203	PEB	CAC-CBC-CGC-O2C
29	G8	203	PEB	CAB-CBB-CGB-O1B
29	H8	203	PEB	CAC-CBC-CGC-O2C
29	H8	203	PEB	CAB-CBB-CGB-O1B
29	I8	202	PEB	CAB-CBB-CGB-O1B
29	I8	203	PEB	CAB-CBB-CGB-O1B
29	J8	201	PEB	CAC-CBC-CGC-O1C
29	K8	201	PEB	CAC-CBC-CGC-O1C
29	K8	202	PEB	CAC-CBC-CGC-O1C
29	K8	202	PEB	CAB-CBB-CGB-O1B
29	K8	203	PEB	CAB-CBB-CGB-O1B
29	L8	203	PEB	CAB-CBB-CGB-O1B
29	A8	202	PEB	CAB-CBB-CGB-O1B
29	A8	203	PEB	CAB-CBB-CGB-O1B
29	C8	201	PEB	CAC-CBC-CGC-O1C
29	C8	202	PEB	CAC-CBC-CGC-O1C
29	C8	202	PEB	CAB-CBB-CGB-O1B
29	C8	203	PEB	CAB-CBB-CGB-O1B
29	i9	203	PEB	CAC-CBC-CGC-O1C
29	AA	202	PEB	CAC-CBC-CGC-O1C
29	CA	202	PEB	CAC-CBC-CGC-O1C
29	EA	202	PEB	CAC-CBC-CGC-O1C
29	GA	202	PEB	CAC-CBC-CGC-O1C
29	IA	202	PEB	CAC-CBC-CGC-O1C
29	KA	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	MA	401	PEB	CAC-CBC-CGC-O2C
29	MA	405	PEB	CAC-CBC-CGC-O2C
29	MA	405	PEB	CAB-CBB-CGB-O2B
29	FB	203	PEB	CAC-CBC-CGC-O2C
29	HB	203	PEB	CAC-CBC-CGC-O2C
29	LB	203	PEB	CAC-CBC-CGC-O2C
29	eB	202	PEB	CAC-CBC-CGC-O2C
29	iB	203	PEB	CAC-CBC-CGC-O2C
29	kB	203	PEB	CAC-CBC-CGC-O2C
29	mB	203	PEB	CAC-CBC-CGC-O2C
29	AC	202	PEB	CAC-CBC-CGC-O1C
29	EC	202	PEB	CAC-CBC-CGC-O1C
29	GC	202	PEB	CAC-CBC-CGC-O1C
29	IC	202	PEB	CAC-CBC-CGC-O1C
29	KC	203	PEB	CAC-CBC-CGC-O1C
29	AE	202	PEB	CAC-CBC-CGC-O1C
29	EE	202	PEB	CAC-CBC-CGC-O1C
29	GE	202	PEB	CAC-CBC-CGC-O1C
29	IE	202	PEB	CAC-CBC-CGC-O1C
29	KE	203	PEB	CAC-CBC-CGC-O1C
29	UF	202	PEB	CAB-CBB-CGB-O1B
29	VF	203	PEB	CAB-CBB-CGB-O1B
29	lF	201	PEB	CAB-CBB-CGB-O1B
29	mF	203	PEB	CAB-CBB-CGB-O1B
29	CG	201	PEB	CAB-CBB-CGB-O2B
29	IG	201	PEB	CAB-CBB-CGB-O2B
29	MG	405	PEB	CAB-CBB-CGB-O1B
29	UI	202	PEB	CAB-CBB-CGB-O1B
29	VI	203	PEB	CAB-CBB-CGB-O1B
29	II	201	PEB	CAB-CBB-CGB-O1B
29	mI	203	PEB	CAB-CBB-CGB-O1B
29	AJ	202	PEB	CAB-CBB-CGB-O2B
29	CJ	202	PEB	CAC-CBC-CGC-O1C
29	CJ	202	PEB	CAB-CBB-CGB-O2B
29	EJ	202	PEB	CAC-CBC-CGC-O1C
29	EJ	202	PEB	CAB-CBB-CGB-O2B
29	GJ	202	PEB	CAC-CBC-CGC-O1C
29	IJ	202	PEB	CAB-CBB-CGB-O2B
29	KJ	202	PEB	CAC-CBC-CGC-O1C
29	KJ	202	PEB	CAB-CBB-CGB-O2B
29	MJ	202	PEB	CAB-CBB-CGB-O2B
29	OJ	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	OJ	202	PEB	CAB-CBB-CGB-O2B
29	QJ	202	PEB	CAC-CBC-CGC-O1C
29	QJ	202	PEB	CAB-CBB-CGB-O2B
29	SJ	202	PEB	CAB-CBB-CGB-O2B
29	UJ	202	PEB	CAC-CBC-CGC-O1C
29	UJ	202	PEB	CAB-CBB-CGB-O2B
29	WJ	203	PEB	CAB-CBB-CGB-O2B
29	YJ	202	PEB	CAB-CBB-CGB-O2B
29	aJ	202	PEB	CAB-CBB-CGB-O2B
29	cJ	202	PEB	CAC-CBC-CGC-O1C
29	cJ	202	PEB	CAB-CBB-CGB-O2B
29	eJ	202	PEB	CAC-CBC-CGC-O1C
29	eJ	202	PEB	CAB-CBB-CGB-O2B
29	gJ	202	PEB	CAB-CBB-CGB-O2B
29	iJ	202	PEB	CAB-CBB-CGB-O2B
29	mJ	202	PEB	CAB-CBB-CGB-O2B
29	oJ	202	PEB	CAC-CBC-CGC-O1C
29	oJ	202	PEB	CAB-CBB-CGB-O2B
29	qJ	202	PEB	CAB-CBB-CGB-O2B
29	sJ	202	PEB	CAB-CBB-CGB-O2B
29	uJ	203	PEB	CAB-CBB-CGB-O2B
29	yJ	301	PEB	CAB-CBB-CGB-O2B
29	AK	303	PEB	CAB-CBB-CGB-O1B
29	HK	1002	PEB	CAC-CBC-CGC-O2C
29	NK	1002	PEB	CAC-CBC-CGC-O2C
29	OK	202	PEB	CAB-CBB-CGB-O2B
29	QK	202	PEB	CAB-CBB-CGB-O2B
29	SK	202	PEB	CAB-CBB-CGB-O2B
29	UK	203	PEB	CAB-CBB-CGB-O2B
29	WK	202	PEB	CAB-CBB-CGB-O2B
29	bK	202	PEB	CAB-CBB-CGB-O2B
29	dK	202	PEB	CAB-CBB-CGB-O2B
29	fK	202	PEB	CAB-CBB-CGB-O2B
29	hK	202	PEB	CAB-CBB-CGB-O2B
29	lK	202	PEB	CAB-CBB-CGB-O2B
29	AL	202	PEB	CAB-CBB-CGB-O2B
29	CL	202	PEB	CAC-CBC-CGC-O1C
29	CL	202	PEB	CAB-CBB-CGB-O2B
29	EL	202	PEB	CAC-CBC-CGC-O1C
29	EL	202	PEB	CAB-CBB-CGB-O2B
29	GL	202	PEB	CAC-CBC-CGC-O1C
29	IL	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	KL	202	PEB	CAC-CBC-CGC-O1C
29	KL	202	PEB	CAB-CBB-CGB-O2B
29	ML	202	PEB	CAB-CBB-CGB-O2B
29	OL	202	PEB	CAC-CBC-CGC-O1C
29	OL	202	PEB	CAB-CBB-CGB-O2B
29	QL	202	PEB	CAC-CBC-CGC-O1C
29	QL	202	PEB	CAB-CBB-CGB-O2B
29	SL	202	PEB	CAB-CBB-CGB-O2B
29	UL	202	PEB	CAC-CBC-CGC-O1C
29	UL	202	PEB	CAB-CBB-CGB-O2B
29	WL	203	PEB	CAB-CBB-CGB-O2B
29	YL	202	PEB	CAB-CBB-CGB-O2B
29	aL	202	PEB	CAB-CBB-CGB-O2B
29	cL	202	PEB	CAC-CBC-CGC-O1C
29	cL	202	PEB	CAB-CBB-CGB-O2B
29	eL	202	PEB	CAC-CBC-CGC-O1C
29	eL	202	PEB	CAB-CBB-CGB-O2B
29	gL	202	PEB	CAB-CBB-CGB-O2B
29	iL	202	PEB	CAB-CBB-CGB-O2B
29	mL	202	PEB	CAB-CBB-CGB-O2B
29	oL	202	PEB	CAC-CBC-CGC-O1C
29	oL	202	PEB	CAB-CBB-CGB-O2B
29	qL	202	PEB	CAB-CBB-CGB-O2B
29	sL	202	PEB	CAB-CBB-CGB-O2B
29	uL	203	PEB	CAB-CBB-CGB-O2B
29	yL	301	PEB	CAB-CBB-CGB-O2B
29	FM	203	PEB	CAC-CBC-CGC-O2C
29	HM	203	PEB	CAC-CBC-CGC-O2C
29	LM	203	PEB	CAC-CBC-CGC-O2C
29	eM	202	PEB	CAC-CBC-CGC-O2C
29	iM	203	PEB	CAC-CBC-CGC-O2C
29	kM	203	PEB	CAC-CBC-CGC-O2C
29	mM	203	PEB	CAC-CBC-CGC-O2C
29	AN	202	PEB	CAC-CBC-CGC-O1C
29	CN	202	PEB	CAC-CBC-CGC-O1C
29	EN	202	PEB	CAC-CBC-CGC-O1C
29	GN	202	PEB	CAC-CBC-CGC-O1C
29	IN	202	PEB	CAC-CBC-CGC-O1C
29	KN	202	PEB	CAC-CBC-CGC-O1C
29	MN	401	PEB	CAC-CBC-CGC-O2C
29	MN	405	PEB	CAC-CBC-CGC-O2C
29	MN	405	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	AO	202	PEB	CAB-CBB-CGB-O1B
29	CO	202	PEB	CAB-CBB-CGB-O1B
29	EO	202	PEB	CAB-CBB-CGB-O1B
29	GO	202	PEB	CAB-CBB-CGB-O1B
29	IO	202	PEB	CAB-CBB-CGB-O1B
29	KO	202	PEB	CAB-CBB-CGB-O1B
29	CQ	201	PEB	CAB-CBB-CGB-O2B
29	IQ	201	PEB	CAB-CBB-CGB-O2B
29	MQ	407	PEB	CAB-CBB-CGB-O1B
29	SR	202	PEB	CAC-CBC-CGC-O1C
29	UR	202	PEB	CAC-CBC-CGC-O1C
30	MA	403	PUB	CAC-CBC-CGC-O1C
30	MN	403	PUB	CAC-CBC-CGC-O1C
31	D1	1001	CYC	CAD-CBD-CGD-O1D
31	VP	1001	CYC	CAD-CBD-CGD-O1D
31	xP	1001	CYC	CAD-CBD-CGD-O1D
29	A1	301	PEB	CAC-CBC-CGC-O2C
29	A1	302	PEB	CAB-CBB-CGB-O2B
29	D1	1002	PEB	CAC-CBC-CGC-O2C
29	F1	1002	PEB	CAC-CBC-CGC-O2C
29	J1	1002	PEB	CAC-CBC-CGC-O2C
29	Q1	201	PEB	CAC-CBC-CGC-O1C
29	Q1	202	PEB	CAB-CBB-CGB-O1B
29	d1	202	PEB	CAC-CBC-CGC-O1C
29	O2	202	PEB	CAC-CBC-CGC-O1C
29	P2	201	PEB	CAC-CBC-CGC-O1C
29	Q2	202	PEB	CAC-CBC-CGC-O1C
29	T2	202	PEB	CAC-CBC-CGC-O1C
29	U2	202	PEB	CAC-CBC-CGC-O1C
29	A3	201	PEB	CAC-CBC-CGC-O2C
29	B3	203	PEB	CAB-CBB-CGB-O2B
29	C3	201	PEB	CAC-CBC-CGC-O2C
29	D3	203	PEB	CAB-CBB-CGB-O2B
29	F3	203	PEB	CAB-CBB-CGB-O2B
29	G3	201	PEB	CAC-CBC-CGC-O2C
29	H3	203	PEB	CAB-CBB-CGB-O2B
29	I3	201	PEB	CAC-CBC-CGC-O2C
29	J3	203	PEB	CAB-CBB-CGB-O2B
29	K3	201	PEB	CAC-CBC-CGC-O2C
29	L3	202	PEB	CAB-CBB-CGB-O2B
29	M3	202	PEB	CAB-CBB-CGB-O2B
29	N3	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	C4	203	PEB	CAC-CBC-CGC-O2C
29	E4	203	PEB	CAC-CBC-CGC-O2C
29	G4	203	PEB	CAC-CBC-CGC-O2C
29	K4	203	PEB	CAC-CBC-CGC-O2C
29	G5	203	PEB	CAC-CBC-CGC-O2C
29	H5	203	PEB	CAC-CBC-CGC-O2C
29	I5	202	PEB	CAC-CBC-CGC-O1C
29	L5	203	PEB	CAC-CBC-CGC-O2C
29	A5	202	PEB	CAC-CBC-CGC-O1C
29	C5	202	PEB	CAC-CBC-CGC-O1C
29	A7	305	PEB	CAC-CBC-CGC-O1C
29	I8	202	PEB	CAC-CBC-CGC-O1C
29	L8	203	PEB	CAC-CBC-CGC-O2C
29	A8	202	PEB	CAC-CBC-CGC-O1C
29	A9	305	PEB	CAC-CBC-CGC-O1C
29	AA	202	PEB	CAC-CBC-CGC-O2C
29	CA	202	PEB	CAC-CBC-CGC-O2C
29	GA	202	PEB	CAC-CBC-CGC-O2C
29	IA	202	PEB	CAC-CBC-CGC-O2C
29	KA	202	PEB	CAC-CBC-CGC-O2C
29	MA	404	PEB	CAC-CBC-CGC-O1C
29	AB	301	PEB	CAC-CBC-CGC-O2C
29	PB	202	PEB	CAC-CBC-CGC-O2C
29	VB	203	PEB	CAC-CBC-CGC-O2C
29	XB	202	PEB	CAC-CBC-CGC-O2C
29	YB	203	PEB	CAC-CBC-CGC-O1C
29	ZB	203	PEB	CAC-CBC-CGC-O2C
29	cB	203	PEB	CAC-CBC-CGC-O2C
29	hB	202	PEB	CAC-CBC-CGC-O1C
29	AC	202	PEB	CAB-CBB-CGB-O1B
29	CC	202	PEB	CAC-CBC-CGC-O1C
29	CC	202	PEB	CAB-CBB-CGB-O1B
29	CD	203	PEB	CAC-CBC-CGC-O2C
29	ED	202	PEB	CAC-CBC-CGC-O2C
29	GD	203	PEB	CAC-CBC-CGC-O2C
29	ID	203	PEB	CAC-CBC-CGC-O2C
29	KD	203	PEB	CAC-CBC-CGC-O2C
29	MD	203	PEB	CAC-CBC-CGC-O2C
29	AE	202	PEB	CAB-CBB-CGB-O1B
29	CE	202	PEB	CAC-CBC-CGC-O1C
29	CE	202	PEB	CAB-CBB-CGB-O1B
29	AF	304	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	AG	201	PEB	CAB-CBB-CGB-O2B
29	GG	201	PEB	CAB-CBB-CGB-O2B
29	AI	304	PEB	CAB-CBB-CGB-O1B
29	AJ	202	PEB	CAB-CBB-CGB-O1B
29	CJ	202	PEB	CAB-CBB-CGB-O1B
29	EJ	202	PEB	CAB-CBB-CGB-O1B
29	FJ	203	PEB	CAB-CBB-CGB-O1B
29	GJ	202	PEB	CAB-CBB-CGB-O1B
29	IJ	202	PEB	CAB-CBB-CGB-O1B
29	KJ	202	PEB	CAB-CBB-CGB-O1B
29	MJ	202	PEB	CAC-CBC-CGC-O1C
29	MJ	202	PEB	CAB-CBB-CGB-O1B
29	NJ	203	PEB	CAB-CBB-CGB-O1B
29	OJ	202	PEB	CAB-CBB-CGB-O1B
29	QJ	202	PEB	CAB-CBB-CGB-O1B
29	SJ	202	PEB	CAB-CBB-CGB-O1B
29	UJ	202	PEB	CAB-CBB-CGB-O1B
29	WJ	203	PEB	CAC-CBC-CGC-O1C
29	WJ	203	PEB	CAB-CBB-CGB-O1B
29	YJ	202	PEB	CAC-CBC-CGC-O1C
29	YJ	202	PEB	CAB-CBB-CGB-O1B
29	aJ	202	PEB	CAB-CBB-CGB-O1B
29	cJ	202	PEB	CAB-CBB-CGB-O1B
29	eJ	202	PEB	CAB-CBB-CGB-O1B
29	gJ	202	PEB	CAC-CBC-CGC-O1C
29	gJ	202	PEB	CAB-CBB-CGB-O1B
29	iJ	202	PEB	CAC-CBC-CGC-O1C
29	iJ	202	PEB	CAB-CBB-CGB-O1B
29	kJ	202	PEB	CAB-CBB-CGB-O1B
29	mJ	202	PEB	CAB-CBB-CGB-O1B
29	oJ	202	PEB	CAB-CBB-CGB-O1B
29	qJ	202	PEB	CAC-CBC-CGC-O1C
29	qJ	202	PEB	CAB-CBB-CGB-O1B
29	sJ	202	PEB	CAC-CBC-CGC-O1C
29	sJ	202	PEB	CAB-CBB-CGB-O1B
29	uJ	203	PEB	CAC-CBC-CGC-O1C
29	uJ	203	PEB	CAB-CBB-CGB-O1B
29	AK	301	PEB	CAC-CBC-CGC-O2C
29	AK	302	PEB	CAB-CBB-CGB-O2B
29	FK	1002	PEB	CAC-CBC-CGC-O2C
29	JK	1002	PEB	CAC-CBC-CGC-O2C
29	QK	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	QK	202	PEB	CAB-CBB-CGB-O1B
29	dK	202	PEB	CAC-CBC-CGC-O1C
29	AL	202	PEB	CAB-CBB-CGB-O1B
29	CL	202	PEB	CAB-CBB-CGB-O1B
29	EL	202	PEB	CAB-CBB-CGB-O1B
29	FL	203	PEB	CAB-CBB-CGB-O1B
29	GL	202	PEB	CAB-CBB-CGB-O1B
29	IL	202	PEB	CAB-CBB-CGB-O1B
29	KL	202	PEB	CAB-CBB-CGB-O1B
29	ML	202	PEB	CAC-CBC-CGC-O1C
29	ML	202	PEB	CAB-CBB-CGB-O1B
29	NL	203	PEB	CAB-CBB-CGB-O1B
29	OL	202	PEB	CAB-CBB-CGB-O1B
29	QL	202	PEB	CAB-CBB-CGB-O1B
29	SL	202	PEB	CAB-CBB-CGB-O1B
29	UL	202	PEB	CAB-CBB-CGB-O1B
29	WL	203	PEB	CAC-CBC-CGC-O1C
29	WL	203	PEB	CAB-CBB-CGB-O1B
29	YL	202	PEB	CAC-CBC-CGC-O1C
29	YL	202	PEB	CAB-CBB-CGB-O1B
29	aL	202	PEB	CAB-CBB-CGB-O1B
29	cL	202	PEB	CAB-CBB-CGB-O1B
29	eL	202	PEB	CAB-CBB-CGB-O1B
29	gL	202	PEB	CAC-CBC-CGC-O1C
29	gL	202	PEB	CAB-CBB-CGB-O1B
29	iL	202	PEB	CAC-CBC-CGC-O1C
29	iL	202	PEB	CAB-CBB-CGB-O1B
29	kL	202	PEB	CAB-CBB-CGB-O1B
29	mL	202	PEB	CAB-CBB-CGB-O1B
29	oL	202	PEB	CAB-CBB-CGB-O1B
29	qL	202	PEB	CAC-CBC-CGC-O1C
29	qL	202	PEB	CAB-CBB-CGB-O1B
29	sL	202	PEB	CAC-CBC-CGC-O1C
29	sL	202	PEB	CAB-CBB-CGB-O1B
29	uL	203	PEB	CAC-CBC-CGC-O1C
29	uL	203	PEB	CAB-CBB-CGB-O1B
29	AM	301	PEB	CAC-CBC-CGC-O2C
29	PM	202	PEB	CAC-CBC-CGC-O2C
29	VM	203	PEB	CAC-CBC-CGC-O2C
29	XM	202	PEB	CAC-CBC-CGC-O2C
29	YM	203	PEB	CAC-CBC-CGC-O1C
29	ZM	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	cM	203	PEB	CAC-CBC-CGC-O2C
29	hM	202	PEB	CAC-CBC-CGC-O1C
29	AN	202	PEB	CAC-CBC-CGC-O2C
29	CN	202	PEB	CAC-CBC-CGC-O2C
29	GN	202	PEB	CAC-CBC-CGC-O2C
29	IN	202	PEB	CAC-CBC-CGC-O2C
29	KN	202	PEB	CAC-CBC-CGC-O2C
29	AO	201	PEB	CAC-CBC-CGC-O2C
29	BO	203	PEB	CAB-CBB-CGB-O2B
29	CO	201	PEB	CAC-CBC-CGC-O2C
29	DO	203	PEB	CAB-CBB-CGB-O2B
29	FO	203	PEB	CAB-CBB-CGB-O2B
29	GO	201	PEB	CAC-CBC-CGC-O2C
29	HO	203	PEB	CAB-CBB-CGB-O2B
29	IO	201	PEB	CAC-CBC-CGC-O2C
29	JO	203	PEB	CAB-CBB-CGB-O2B
29	KO	201	PEB	CAC-CBC-CGC-O2C
29	LO	202	PEB	CAB-CBB-CGB-O2B
29	MO	202	PEB	CAB-CBB-CGB-O2B
29	NO	202	PEB	CAB-CBB-CGB-O2B
29	AQ	201	PEB	CAB-CBB-CGB-O2B
29	GQ	201	PEB	CAB-CBB-CGB-O2B
29	MR	202	PEB	CAC-CBC-CGC-O1C
29	MR	202	PEB	CAC-CBC-CGC-O2C
29	NR	202	PEB	CAC-CBC-CGC-O1C
29	OR	202	PEB	CAC-CBC-CGC-O1C
29	PR	201	PEB	CAC-CBC-CGC-O1C
29	QR	202	PEB	CAC-CBC-CGC-O1C
29	RR	202	PEB	CAC-CBC-CGC-O1C
29	TR	202	PEB	CAC-CBC-CGC-O1C
31	F1	1001	CYC	CAD-CBD-CGD-O1D
31	H1	1001	CYC	CAD-CBD-CGD-O1D
31	L1	1001	CYC	CAD-CBD-CGD-O1D
31	FK	1001	CYC	CAD-CBD-CGD-O1D
31	HK	1001	CYC	CAD-CBD-CGD-O1D
31	LK	1001	CYC	CAD-CBD-CGD-O1D
31	NK	1001	CYC	CAD-CBD-CGD-O1D
31	WP	1001	CYC	CAD-CBD-CGD-O1D
31	yP	1001	CYC	CAD-CBD-CGD-O1D
29	A1	301	PEB	CAB-CBB-CGB-O1B
29	O1	201	PEB	CAC-CBC-CGC-O1C
29	O1	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	Q1	202	PEB	CAC-CBC-CGC-O1C
29	S1	201	PEB	CAC-CBC-CGC-O1C
29	S1	202	PEB	CAC-CBC-CGC-O1C
29	U1	202	PEB	CAC-CBC-CGC-O1C
29	U1	203	PEB	CAC-CBC-CGC-O1C
29	W1	201	PEB	CAC-CBC-CGC-O1C
29	W1	202	PEB	CAC-CBC-CGC-O1C
29	Z1	202	PEB	CAC-CBC-CGC-O1C
29	Z1	203	PEB	CAC-CBC-CGC-O1C
29	b1	201	PEB	CAC-CBC-CGC-O1C
29	b1	202	PEB	CAC-CBC-CGC-O1C
29	d1	201	PEB	CAC-CBC-CGC-O1C
29	f1	201	PEB	CAC-CBC-CGC-O1C
29	f1	202	PEB	CAC-CBC-CGC-O1C
29	h1	201	PEB	CAC-CBC-CGC-O1C
29	h1	202	PEB	CAC-CBC-CGC-O1C
29	j1	201	PEB	CAC-CBC-CGC-O1C
29	j1	202	PEB	CAC-CBC-CGC-O1C
29	l1	201	PEB	CAC-CBC-CGC-O1C
29	l1	202	PEB	CAC-CBC-CGC-O1C
29	N2	202	PEB	CAC-CBC-CGC-O1C
29	R2	202	PEB	CAC-CBC-CGC-O1C
29	V2	202	PEB	CAC-CBC-CGC-O1C
29	X2	201	PEB	CAC-CBC-CGC-O1C
29	E3	201	PEB	CAC-CBC-CGC-O2C
29	B4	202	PEB	CAC-CBC-CGC-O2C
29	D4	202	PEB	CAC-CBC-CGC-O2C
29	F4	202	PEB	CAC-CBC-CGC-O2C
29	H4	202	PEB	CAC-CBC-CGC-O2C
29	J4	202	PEB	CAC-CBC-CGC-O2C
29	L4	202	PEB	CAC-CBC-CGC-O2C
29	G5	201	PEB	CAC-CBC-CGC-O1C
29	A7	304	PEB	CAB-CBB-CGB-O1B
29	A7	305	PEB	CAB-CBB-CGB-O1B
29	A9	304	PEB	CAB-CBB-CGB-O1B
29	A9	305	PEB	CAB-CBB-CGB-O1B
29	EA	202	PEB	CAC-CBC-CGC-O2C
29	HA	203	PEB	CAB-CBB-CGB-O1B
29	MA	401	PEB	CAB-CBB-CGB-O2B
29	CB	201	PEB	CAC-CBC-CGC-O2C
29	CB	202	PEB	CAC-CBC-CGC-O1C
29	DB	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	EB	201	PEB	CAC-CBC-CGC-O2C
29	GB	201	PEB	CAC-CBC-CGC-O2C
29	IB	201	PEB	CAC-CBC-CGC-O2C
29	JB	203	PEB	CAC-CBC-CGC-O2C
29	KB	201	PEB	CAC-CBC-CGC-O2C
29	KB	202	PEB	CAC-CBC-CGC-O1C
29	MB	201	PEB	CAC-CBC-CGC-O2C
29	NB	202	PEB	CAC-CBC-CGC-O2C
29	OB	201	PEB	CAC-CBC-CGC-O2C
29	OB	202	PEB	CAC-CBC-CGC-O1C
29	QB	203	PEB	CAC-CBC-CGC-O2C
29	RB	203	PEB	CAC-CBC-CGC-O2C
29	SB	201	PEB	CAC-CBC-CGC-O2C
29	TB	203	PEB	CAC-CBC-CGC-O2C
29	UB	201	PEB	CAC-CBC-CGC-O2C
29	WB	201	PEB	CAC-CBC-CGC-O2C
29	YB	202	PEB	CAC-CBC-CGC-O2C
29	aB	201	PEB	CAC-CBC-CGC-O2C
29	dB	201	PEB	CAC-CBC-CGC-O2C
29	dB	202	PEB	CAC-CBC-CGC-O1C
29	fB	201	PEB	CAC-CBC-CGC-O2C
29	fB	202	PEB	CAC-CBC-CGC-O1C
29	gB	203	PEB	CAC-CBC-CGC-O2C
29	hB	201	PEB	CAC-CBC-CGC-O2C
29	jB	201	PEB	CAC-CBC-CGC-O2C
29	lB	201	PEB	CAC-CBC-CGC-O2C
29	BC	201	PEB	CAC-CBC-CGC-O1C
29	DC	201	PEB	CAC-CBC-CGC-O1C
29	FC	201	PEB	CAC-CBC-CGC-O1C
29	HC	201	PEB	CAC-CBC-CGC-O1C
29	JC	201	PEB	CAC-CBC-CGC-O1C
29	LC	201	PEB	CAC-CBC-CGC-O1C
29	BD	202	PEB	CAC-CBC-CGC-O2C
29	DD	202	PEB	CAC-CBC-CGC-O2C
29	FD	202	PEB	CAC-CBC-CGC-O2C
29	HD	202	PEB	CAC-CBC-CGC-O2C
29	JD	202	PEB	CAC-CBC-CGC-O2C
29	LD	202	PEB	CAC-CBC-CGC-O2C
29	BE	201	PEB	CAC-CBC-CGC-O1C
29	DE	201	PEB	CAC-CBC-CGC-O1C
29	FE	201	PEB	CAC-CBC-CGC-O1C
29	HE	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	JE	201	PEB	CAC-CBC-CGC-O1C
29	LE	201	PEB	CAC-CBC-CGC-O1C
29	QF	201	PEB	CAC-CBC-CGC-O2C
29	SF	201	PEB	CAC-CBC-CGC-O2C
29	WF	201	PEB	CAC-CBC-CGC-O2C
29	AG	202	PEB	CAB-CBB-CGB-O1B
29	CG	202	PEB	CAB-CBB-CGB-O1B
29	EG	201	PEB	CAB-CBB-CGB-O2B
29	GG	202	PEB	CAB-CBB-CGB-O1B
29	IG	202	PEB	CAB-CBB-CGB-O1B
29	KG	201	PEB	CAB-CBB-CGB-O2B
29	KG	202	PEB	CAB-CBB-CGB-O1B
29	QI	201	PEB	CAC-CBC-CGC-O2C
29	SI	201	PEB	CAC-CBC-CGC-O2C
29	WI	201	PEB	CAC-CBC-CGC-O2C
29	BJ	203	PEB	CAB-CBB-CGB-O1B
29	DJ	202	PEB	CAB-CBB-CGB-O1B
29	HJ	202	PEB	CAB-CBB-CGB-O1B
29	JJ	203	PEB	CAB-CBB-CGB-O1B
29	LJ	202	PEB	CAB-CBB-CGB-O1B
29	PJ	203	PEB	CAB-CBB-CGB-O1B
29	RJ	203	PEB	CAB-CBB-CGB-O1B
29	TJ	203	PEB	CAB-CBB-CGB-O1B
29	VJ	202	PEB	CAB-CBB-CGB-O1B
29	XJ	203	PEB	CAB-CBB-CGB-O1B
29	ZJ	203	PEB	CAB-CBB-CGB-O1B
29	bJ	203	PEB	CAB-CBB-CGB-O1B
29	dJ	203	PEB	CAB-CBB-CGB-O1B
29	fJ	203	PEB	CAB-CBB-CGB-O1B
29	hJ	203	PEB	CAB-CBB-CGB-O1B
29	jJ	203	PEB	CAB-CBB-CGB-O1B
29	lJ	203	PEB	CAB-CBB-CGB-O1B
29	nJ	203	PEB	CAB-CBB-CGB-O1B
29	pJ	203	PEB	CAB-CBB-CGB-O1B
29	rJ	203	PEB	CAB-CBB-CGB-O1B
29	tJ	202	PEB	CAB-CBB-CGB-O1B
29	vJ	202	PEB	CAB-CBB-CGB-O1B
29	AK	301	PEB	CAB-CBB-CGB-O1B
29	DK	1002	PEB	CAC-CBC-CGC-O2C
29	OK	201	PEB	CAC-CBC-CGC-O1C
29	OK	202	PEB	CAC-CBC-CGC-O1C
29	QK	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	SK	201	PEB	CAC-CBC-CGC-O1C
29	SK	202	PEB	CAC-CBC-CGC-O1C
29	UK	202	PEB	CAC-CBC-CGC-O1C
29	UK	203	PEB	CAC-CBC-CGC-O1C
29	WK	201	PEB	CAC-CBC-CGC-O1C
29	WK	202	PEB	CAC-CBC-CGC-O1C
29	ZK	202	PEB	CAC-CBC-CGC-O1C
29	ZK	203	PEB	CAC-CBC-CGC-O1C
29	bK	201	PEB	CAC-CBC-CGC-O1C
29	bK	202	PEB	CAC-CBC-CGC-O1C
29	dK	201	PEB	CAC-CBC-CGC-O1C
29	fK	201	PEB	CAC-CBC-CGC-O1C
29	fK	202	PEB	CAC-CBC-CGC-O1C
29	hK	201	PEB	CAC-CBC-CGC-O1C
29	hK	202	PEB	CAC-CBC-CGC-O1C
29	jK	201	PEB	CAC-CBC-CGC-O1C
29	jK	202	PEB	CAC-CBC-CGC-O1C
29	lK	201	PEB	CAC-CBC-CGC-O1C
29	lK	202	PEB	CAC-CBC-CGC-O1C
29	BL	203	PEB	CAB-CBB-CGB-O1B
29	DL	202	PEB	CAB-CBB-CGB-O1B
29	HL	202	PEB	CAB-CBB-CGB-O1B
29	JL	203	PEB	CAB-CBB-CGB-O1B
29	LL	202	PEB	CAB-CBB-CGB-O1B
29	PL	203	PEB	CAB-CBB-CGB-O1B
29	RL	203	PEB	CAB-CBB-CGB-O1B
29	TL	203	PEB	CAB-CBB-CGB-O1B
29	VL	202	PEB	CAB-CBB-CGB-O1B
29	XL	203	PEB	CAB-CBB-CGB-O1B
29	ZL	203	PEB	CAB-CBB-CGB-O1B
29	bL	203	PEB	CAB-CBB-CGB-O1B
29	dL	203	PEB	CAB-CBB-CGB-O1B
29	fL	203	PEB	CAB-CBB-CGB-O1B
29	hL	203	PEB	CAB-CBB-CGB-O1B
29	jL	203	PEB	CAB-CBB-CGB-O1B
29	lL	203	PEB	CAB-CBB-CGB-O1B
29	nL	203	PEB	CAB-CBB-CGB-O1B
29	pL	203	PEB	CAB-CBB-CGB-O1B
29	rL	203	PEB	CAB-CBB-CGB-O1B
29	tL	202	PEB	CAB-CBB-CGB-O1B
29	vL	202	PEB	CAB-CBB-CGB-O1B
29	CM	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	CM	202	PEB	CAC-CBC-CGC-O1C
29	DM	203	PEB	CAC-CBC-CGC-O2C
29	EM	201	PEB	CAC-CBC-CGC-O2C
29	GM	201	PEB	CAC-CBC-CGC-O2C
29	IM	201	PEB	CAC-CBC-CGC-O2C
29	JM	203	PEB	CAC-CBC-CGC-O2C
29	KM	201	PEB	CAC-CBC-CGC-O2C
29	KM	202	PEB	CAC-CBC-CGC-O1C
29	MM	201	PEB	CAC-CBC-CGC-O2C
29	NM	202	PEB	CAC-CBC-CGC-O2C
29	OM	201	PEB	CAC-CBC-CGC-O2C
29	OM	202	PEB	CAC-CBC-CGC-O1C
29	QM	203	PEB	CAC-CBC-CGC-O2C
29	RM	203	PEB	CAC-CBC-CGC-O2C
29	SM	201	PEB	CAC-CBC-CGC-O2C
29	TM	203	PEB	CAC-CBC-CGC-O2C
29	UM	201	PEB	CAC-CBC-CGC-O2C
29	WM	201	PEB	CAC-CBC-CGC-O2C
29	YM	202	PEB	CAC-CBC-CGC-O2C
29	aM	201	PEB	CAC-CBC-CGC-O2C
29	dM	201	PEB	CAC-CBC-CGC-O2C
29	dM	202	PEB	CAC-CBC-CGC-O1C
29	fM	201	PEB	CAC-CBC-CGC-O2C
29	fM	202	PEB	CAC-CBC-CGC-O1C
29	gM	203	PEB	CAC-CBC-CGC-O2C
29	hM	201	PEB	CAC-CBC-CGC-O2C
29	jM	201	PEB	CAC-CBC-CGC-O2C
29	lM	201	PEB	CAC-CBC-CGC-O2C
29	EN	202	PEB	CAC-CBC-CGC-O2C
29	HN	203	PEB	CAB-CBB-CGB-O1B
29	MN	404	PEB	CAC-CBC-CGC-O1C
29	EO	201	PEB	CAC-CBC-CGC-O2C
29	AQ	202	PEB	CAB-CBB-CGB-O1B
29	CQ	202	PEB	CAB-CBB-CGB-O1B
29	EQ	201	PEB	CAB-CBB-CGB-O2B
29	GQ	202	PEB	CAB-CBB-CGB-O1B
29	IQ	202	PEB	CAB-CBB-CGB-O1B
29	KQ	201	PEB	CAB-CBB-CGB-O2B
29	KQ	202	PEB	CAB-CBB-CGB-O1B
29	VR	202	PEB	CAC-CBC-CGC-O1C
29	WR	202	PEB	CAC-CBC-CGC-O1C
29	XR	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
30	A1	305	PUB	CAB-CBB-CGB-O1B
30	A7	302	PUB	CAB-CBB-CGB-O2B
30	A9	302	PUB	CAB-CBB-CGB-O2B
30	MG	403	PUB	CAB-CBB-CGB-O1B
30	AK	305	PUB	CAB-CBB-CGB-O1B
30	MQ	405	PUB	CAB-CBB-CGB-O1B
31	J1	1001	CYC	CAD-CBD-CGD-O1D
31	N1	1001	CYC	CAD-CBD-CGD-O1D
31	DF	1001	CYC	CAA-CBA-CGA-O2A
31	FF	1001	CYC	CAA-CBA-CGA-O2A
31	HF	1001	CYC	CAA-CBA-CGA-O2A
31	JF	1001	CYC	CAA-CBA-CGA-O2A
31	LF	1001	CYC	CAA-CBA-CGA-O2A
31	NF	1001	CYC	CAA-CBA-CGA-O2A
31	DI	1001	CYC	CAA-CBA-CGA-O2A
31	FI	1001	CYC	CAA-CBA-CGA-O2A
31	HI	1001	CYC	CAA-CBA-CGA-O2A
31	JI	1001	CYC	CAA-CBA-CGA-O2A
31	LI	1001	CYC	CAA-CBA-CGA-O2A
31	NI	1001	CYC	CAA-CBA-CGA-O2A
31	DK	1001	CYC	CAD-CBD-CGD-O1D
31	JK	1001	CYC	CAD-CBD-CGD-O1D
29	C4	201	PEB	C2B-C3B-CAB-CBB
29	E4	201	PEB	C2B-C3B-CAB-CBB
29	G4	201	PEB	C2B-C3B-CAB-CBB
29	I4	201	PEB	C2B-C3B-CAB-CBB
29	K4	201	PEB	C2B-C3B-CAB-CBB
29	M4	201	PEB	C2B-C3B-CAB-CBB
29	dD	401	PEB	C2B-C3B-CAB-CBB
29	CD	201	PEB	C2B-C3B-CAB-CBB
29	ID	201	PEB	C2B-C3B-CAB-CBB
29	KD	201	PEB	C2B-C3B-CAB-CBB
29	MD	201	PEB	C2B-C3B-CAB-CBB
30	A1	305	PUB	C3C-C2C-CAC-CBC
30	AK	305	PUB	C3C-C2C-CAC-CBC
29	L1	1002	PEB	CAC-CBC-CGC-O2C
29	N1	1002	PEB	CAC-CBC-CGC-O2C
29	N2	201	PEB	CAB-CBB-CGB-O2B
29	S2	201	PEB	CAC-CBC-CGC-O2C
29	T2	201	PEB	CAB-CBB-CGB-O2B
29	B4	202	PEB	CAB-CBB-CGB-O2B
29	D4	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	F4	202	PEB	CAB-CBB-CGB-O2B
29	H4	202	PEB	CAB-CBB-CGB-O2B
29	J4	202	PEB	CAB-CBB-CGB-O2B
29	L4	202	PEB	CAB-CBB-CGB-O2B
29	B5	201	PEB	CAB-CBB-CGB-O2B
29	F5	201	PEB	CAC-CBC-CGC-O1C
29	F5	201	PEB	CAB-CBB-CGB-O2B
29	G5	201	PEB	CAB-CBB-CGB-O2B
29	H5	201	PEB	CAC-CBC-CGC-O1C
29	H5	201	PEB	CAB-CBB-CGB-O2B
29	L5	201	PEB	CAB-CBB-CGB-O2B
29	A7	301	PEB	CAC-CBC-CGC-O2C
29	A7	304	PEB	CAC-CBC-CGC-O2C
29	P7	202	PEB	CAC-CBC-CGC-O2C
29	R7	202	PEB	CAC-CBC-CGC-O2C
29	T7	202	PEB	CAC-CBC-CGC-O2C
29	V7	202	PEB	CAC-CBC-CGC-O2C
29	Y7	202	PEB	CAC-CBC-CGC-O2C
29	g7	202	PEB	CAC-CBC-CGC-O2C
29	B8	201	PEB	CAB-CBB-CGB-O2B
29	F8	201	PEB	CAC-CBC-CGC-O1C
29	F8	201	PEB	CAB-CBB-CGB-O2B
29	G8	201	PEB	CAB-CBB-CGB-O2B
29	H8	201	PEB	CAB-CBB-CGB-O2B
29	L8	201	PEB	CAB-CBB-CGB-O2B
29	A9	301	PEB	CAC-CBC-CGC-O2C
29	A9	304	PEB	CAC-CBC-CGC-O2C
29	P9	202	PEB	CAC-CBC-CGC-O2C
29	R9	202	PEB	CAC-CBC-CGC-O2C
29	T9	202	PEB	CAC-CBC-CGC-O2C
29	V9	202	PEB	CAC-CBC-CGC-O2C
29	Y9	202	PEB	CAC-CBC-CGC-O2C
29	g9	202	PEB	CAC-CBC-CGC-O2C
29	BA	201	PEB	CAB-CBB-CGB-O2B
29	BA	203	PEB	CAB-CBB-CGB-O1B
29	DA	201	PEB	CAB-CBB-CGB-O2B
29	DA	203	PEB	CAB-CBB-CGB-O1B
29	FA	201	PEB	CAB-CBB-CGB-O2B
29	FA	203	PEB	CAB-CBB-CGB-O1B
29	HA	201	PEB	CAB-CBB-CGB-O2B
29	JA	201	PEB	CAB-CBB-CGB-O2B
29	JA	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	LA	201	PEB	CAB-CBB-CGB-O2B
29	LA	203	PEB	CAB-CBB-CGB-O1B
29	AB	301	PEB	CAB-CBB-CGB-O1B
29	AB	302	PEB	CAC-CBC-CGC-O1C
29	EB	202	PEB	CAC-CBC-CGC-O1C
29	GB	202	PEB	CAC-CBC-CGC-O1C
29	IB	202	PEB	CAC-CBC-CGC-O1C
29	MB	202	PEB	CAC-CBC-CGC-O1C
29	QB	204	PEB	CAC-CBC-CGC-O1C
29	SB	202	PEB	CAC-CBC-CGC-O1C
29	UB	202	PEB	CAC-CBC-CGC-O1C
29	WB	202	PEB	CAC-CBC-CGC-O1C
29	aB	202	PEB	CAC-CBC-CGC-O1C
29	jB	202	PEB	CAC-CBC-CGC-O1C
29	lB	202	PEB	CAC-CBC-CGC-O1C
29	GC	202	PEB	CAB-CBB-CGB-O1B
29	BD	202	PEB	CAB-CBB-CGB-O2B
29	DD	202	PEB	CAB-CBB-CGB-O2B
29	FD	202	PEB	CAB-CBB-CGB-O2B
29	HD	202	PEB	CAB-CBB-CGB-O2B
29	JD	202	PEB	CAB-CBB-CGB-O2B
29	LD	202	PEB	CAB-CBB-CGB-O2B
29	GE	202	PEB	CAB-CBB-CGB-O1B
29	OF	201	PEB	CAC-CBC-CGC-O2C
29	QF	201	PEB	CAC-CBC-CGC-O1C
29	SF	201	PEB	CAC-CBC-CGC-O1C
29	UF	202	PEB	CAC-CBC-CGC-O2C
29	WF	201	PEB	CAC-CBC-CGC-O1C
29	ZF	201	PEB	CAC-CBC-CGC-O1C
29	ZF	201	PEB	CAC-CBC-CGC-O2C
29	bF	201	PEB	CAC-CBC-CGC-O1C
29	bF	201	PEB	CAC-CBC-CGC-O2C
29	dF	202	PEB	CAC-CBC-CGC-O1C
29	dF	202	PEB	CAC-CBC-CGC-O2C
29	fF	201	PEB	CAC-CBC-CGC-O1C
29	fF	201	PEB	CAC-CBC-CGC-O2C
29	hF	201	PEB	CAC-CBC-CGC-O1C
29	hF	201	PEB	CAC-CBC-CGC-O2C
29	jF	201	PEB	CAC-CBC-CGC-O1C
29	jF	201	PEB	CAC-CBC-CGC-O2C
29	lF	201	PEB	CAC-CBC-CGC-O1C
29	lF	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	EG	202	PEB	CAB-CBB-CGB-O1B
29	OI	201	PEB	CAC-CBC-CGC-O2C
29	QI	201	PEB	CAC-CBC-CGC-O1C
29	SI	201	PEB	CAC-CBC-CGC-O1C
29	UI	202	PEB	CAC-CBC-CGC-O2C
29	WI	201	PEB	CAC-CBC-CGC-O1C
29	ZI	201	PEB	CAC-CBC-CGC-O1C
29	ZI	201	PEB	CAC-CBC-CGC-O2C
29	bI	201	PEB	CAC-CBC-CGC-O1C
29	bI	201	PEB	CAC-CBC-CGC-O2C
29	dI	202	PEB	CAC-CBC-CGC-O1C
29	dI	202	PEB	CAC-CBC-CGC-O2C
29	fI	201	PEB	CAC-CBC-CGC-O1C
29	fI	201	PEB	CAC-CBC-CGC-O2C
29	hI	201	PEB	CAC-CBC-CGC-O1C
29	hI	201	PEB	CAC-CBC-CGC-O2C
29	jI	201	PEB	CAC-CBC-CGC-O1C
29	jI	201	PEB	CAC-CBC-CGC-O2C
29	II	201	PEB	CAC-CBC-CGC-O1C
29	II	201	PEB	CAC-CBC-CGC-O2C
29	zJ	501	PEB	CAC-CBC-CGC-O2C
29	LK	1002	PEB	CAC-CBC-CGC-O2C
29	AM	301	PEB	CAB-CBB-CGB-O1B
29	EM	202	PEB	CAC-CBC-CGC-O1C
29	GM	202	PEB	CAC-CBC-CGC-O1C
29	IM	202	PEB	CAC-CBC-CGC-O1C
29	MM	202	PEB	CAC-CBC-CGC-O1C
29	QM	204	PEB	CAC-CBC-CGC-O1C
29	SM	202	PEB	CAC-CBC-CGC-O1C
29	WM	202	PEB	CAC-CBC-CGC-O1C
29	aM	202	PEB	CAC-CBC-CGC-O1C
29	jM	202	PEB	CAC-CBC-CGC-O1C
29	lM	202	PEB	CAC-CBC-CGC-O1C
29	BN	201	PEB	CAB-CBB-CGB-O2B
29	BN	203	PEB	CAB-CBB-CGB-O1B
29	DN	201	PEB	CAB-CBB-CGB-O2B
29	DN	203	PEB	CAB-CBB-CGB-O1B
29	FN	201	PEB	CAB-CBB-CGB-O2B
29	FN	203	PEB	CAB-CBB-CGB-O1B
29	HN	201	PEB	CAB-CBB-CGB-O2B
29	JN	201	PEB	CAB-CBB-CGB-O2B
29	JN	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	LN	201	PEB	CAB-CBB-CGB-O2B
29	LN	203	PEB	CAB-CBB-CGB-O1B
29	MN	401	PEB	CAB-CBB-CGB-O2B
29	EQ	202	PEB	CAB-CBB-CGB-O1B
29	MQ	401	PEB	CAC-CBC-CGC-O1C
29	RR	201	PEB	CAB-CBB-CGB-O2B
30	AB	305	PUB	CAB-CBB-CGB-O1B
30	BB	302	PUB	CAB-CBB-CGB-O1B
30	AM	305	PUB	CAB-CBB-CGB-O1B
30	BM	302	PUB	CAB-CBB-CGB-O1B
31	C7	1001	CYC	CAA-CBA-CGA-O2A
31	E7	1001	CYC	CAA-CBA-CGA-O2A
31	G7	1001	CYC	CAA-CBA-CGA-O2A
31	I7	1001	CYC	CAA-CBA-CGA-O2A
31	K7	1001	CYC	CAA-CBA-CGA-O2A
31	M7	1001	CYC	CAA-CBA-CGA-O2A
31	C9	1001	CYC	CAA-CBA-CGA-O2A
31	E9	1001	CYC	CAA-CBA-CGA-O2A
31	G9	1001	CYC	CAA-CBA-CGA-O2A
31	I9	1001	CYC	CAA-CBA-CGA-O2A
31	M9	1001	CYC	CAA-CBA-CGA-O2A
29	R2	201	PEB	CAB-CBB-CGB-O2B
29	B3	202	PEB	CAC-CBC-CGC-O2C
29	B3	202	PEB	CAB-CBB-CGB-O2B
29	F3	202	PEB	CAC-CBC-CGC-O2C
29	F3	202	PEB	CAB-CBB-CGB-O2B
29	H3	202	PEB	CAC-CBC-CGC-O2C
29	H3	202	PEB	CAB-CBB-CGB-O2B
29	I3	203	PEB	CAC-CBC-CGC-O2C
29	I3	203	PEB	CAB-CBB-CGB-O2B
29	J3	202	PEB	CAC-CBC-CGC-O2C
29	J3	202	PEB	CAB-CBB-CGB-O2B
29	N3	203	PEB	CAB-CBB-CGB-O1B
29	C4	202	PEB	CAC-CBC-CGC-O2C
29	E4	202	PEB	CAC-CBC-CGC-O2C
29	G4	202	PEB	CAC-CBC-CGC-O2C
29	I4	202	PEB	CAC-CBC-CGC-O2C
29	M4	202	PEB	CAC-CBC-CGC-O2C
29	B5	201	PEB	CAC-CBC-CGC-O1C
29	B5	202	PEB	CAB-CBB-CGB-O2B
29	F5	202	PEB	CAB-CBB-CGB-O2B
29	H5	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	I5	201	PEB	CAC-CBC-CGC-O2C
29	K5	201	PEB	CAC-CBC-CGC-O2C
29	L5	201	PEB	CAC-CBC-CGC-O1C
29	L5	202	PEB	CAB-CBB-CGB-O2B
29	A5	201	PEB	CAC-CBC-CGC-O2C
29	C5	201	PEB	CAC-CBC-CGC-O2C
29	A7	304	PEB	CAC-CBC-CGC-O1C
29	a7	202	PEB	CAC-CBC-CGC-O2C
29	c7	202	PEB	CAC-CBC-CGC-O2C
29	e7	202	PEB	CAC-CBC-CGC-O2C
29	i7	202	PEB	CAC-CBC-CGC-O2C
29	k7	202	PEB	CAC-CBC-CGC-O2C
29	m7	202	PEB	CAC-CBC-CGC-O2C
29	B8	201	PEB	CAC-CBC-CGC-O1C
29	F8	202	PEB	CAB-CBB-CGB-O2B
29	G8	201	PEB	CAC-CBC-CGC-O1C
29	H8	201	PEB	CAC-CBC-CGC-O1C
29	H8	202	PEB	CAB-CBB-CGB-O2B
29	I8	201	PEB	CAC-CBC-CGC-O2C
29	K8	201	PEB	CAC-CBC-CGC-O2C
29	L8	202	PEB	CAB-CBB-CGB-O2B
29	A8	201	PEB	CAC-CBC-CGC-O2C
29	C8	201	PEB	CAC-CBC-CGC-O2C
29	a9	202	PEB	CAC-CBC-CGC-O2C
29	c9	202	PEB	CAC-CBC-CGC-O2C
29	e9	202	PEB	CAC-CBC-CGC-O2C
29	i9	202	PEB	CAC-CBC-CGC-O2C
29	k9	202	PEB	CAC-CBC-CGC-O2C
29	m9	202	PEB	CAC-CBC-CGC-O2C
29	AB	302	PEB	CAB-CBB-CGB-O1B
29	CB	202	PEB	CAB-CBB-CGB-O1B
29	EB	202	PEB	CAB-CBB-CGB-O1B
29	GB	202	PEB	CAB-CBB-CGB-O1B
29	IB	202	PEB	CAB-CBB-CGB-O1B
29	KB	202	PEB	CAB-CBB-CGB-O1B
29	MB	202	PEB	CAB-CBB-CGB-O1B
29	OB	202	PEB	CAB-CBB-CGB-O1B
29	QB	204	PEB	CAB-CBB-CGB-O1B
29	SB	202	PEB	CAB-CBB-CGB-O1B
29	UB	202	PEB	CAB-CBB-CGB-O1B
29	WB	202	PEB	CAB-CBB-CGB-O1B
29	YB	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	aB	202	PEB	CAB-CBB-CGB-O1B
29	dB	202	PEB	CAB-CBB-CGB-O1B
29	fB	202	PEB	CAB-CBB-CGB-O1B
29	hB	202	PEB	CAB-CBB-CGB-O1B
29	jB	202	PEB	CAB-CBB-CGB-O1B
29	lB	202	PEB	CAB-CBB-CGB-O1B
29	EC	202	PEB	CAB-CBB-CGB-O1B
29	IC	202	PEB	CAB-CBB-CGB-O1B
29	KC	203	PEB	CAB-CBB-CGB-O1B
29	CD	202	PEB	CAC-CBC-CGC-O2C
29	ED	201	PEB	CAC-CBC-CGC-O2C
29	GD	202	PEB	CAC-CBC-CGC-O2C
29	ID	202	PEB	CAC-CBC-CGC-O2C
29	KD	202	PEB	CAC-CBC-CGC-O2C
29	EE	202	PEB	CAB-CBB-CGB-O1B
29	IE	202	PEB	CAB-CBB-CGB-O1B
29	KE	203	PEB	CAB-CBB-CGB-O1B
29	AF	301	PEB	CAC-CBC-CGC-O1C
29	AF	301	PEB	CAC-CBC-CGC-O2C
29	AF	301	PEB	CAB-CBB-CGB-O2B
29	AF	305	PEB	CAB-CBB-CGB-O2B
29	OF	201	PEB	CAC-CBC-CGC-O1C
29	OF	202	PEB	CAC-CBC-CGC-O1C
29	OF	202	PEB	CAC-CBC-CGC-O2C
29	QF	202	PEB	CAC-CBC-CGC-O1C
29	QF	202	PEB	CAC-CBC-CGC-O2C
29	SF	202	PEB	CAC-CBC-CGC-O1C
29	SF	202	PEB	CAC-CBC-CGC-O2C
29	UF	202	PEB	CAC-CBC-CGC-O1C
29	UF	203	PEB	CAC-CBC-CGC-O1C
29	UF	203	PEB	CAC-CBC-CGC-O2C
29	WF	202	PEB	CAC-CBC-CGC-O1C
29	WF	202	PEB	CAC-CBC-CGC-O2C
29	ZF	202	PEB	CAC-CBC-CGC-O1C
29	ZF	202	PEB	CAC-CBC-CGC-O2C
29	bF	202	PEB	CAC-CBC-CGC-O1C
29	bF	202	PEB	CAC-CBC-CGC-O2C
29	dF	203	PEB	CAC-CBC-CGC-O1C
29	dF	203	PEB	CAC-CBC-CGC-O2C
29	fF	202	PEB	CAC-CBC-CGC-O1C
29	fF	202	PEB	CAC-CBC-CGC-O2C
29	hF	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	hF	202	PEB	CAC-CBC-CGC-O2C
29	jF	202	PEB	CAC-CBC-CGC-O1C
29	jF	202	PEB	CAC-CBC-CGC-O2C
29	lF	202	PEB	CAC-CBC-CGC-O1C
29	lF	202	PEB	CAC-CBC-CGC-O2C
29	JG	203	PEB	CAB-CBB-CGB-O2B
29	AI	301	PEB	CAC-CBC-CGC-O1C
29	AI	301	PEB	CAC-CBC-CGC-O2C
29	AI	301	PEB	CAB-CBB-CGB-O2B
29	AI	305	PEB	CAB-CBB-CGB-O2B
29	OI	201	PEB	CAC-CBC-CGC-O1C
29	OI	202	PEB	CAC-CBC-CGC-O1C
29	OI	202	PEB	CAC-CBC-CGC-O2C
29	QI	202	PEB	CAC-CBC-CGC-O1C
29	QI	202	PEB	CAC-CBC-CGC-O2C
29	SI	202	PEB	CAC-CBC-CGC-O1C
29	SI	202	PEB	CAC-CBC-CGC-O2C
29	UI	202	PEB	CAC-CBC-CGC-O1C
29	UI	203	PEB	CAC-CBC-CGC-O1C
29	UI	203	PEB	CAC-CBC-CGC-O2C
29	WI	202	PEB	CAC-CBC-CGC-O1C
29	WI	202	PEB	CAC-CBC-CGC-O2C
29	ZI	202	PEB	CAC-CBC-CGC-O1C
29	ZI	202	PEB	CAC-CBC-CGC-O2C
29	bI	202	PEB	CAC-CBC-CGC-O1C
29	bI	202	PEB	CAC-CBC-CGC-O2C
29	dI	203	PEB	CAC-CBC-CGC-O1C
29	dI	203	PEB	CAC-CBC-CGC-O2C
29	fI	202	PEB	CAC-CBC-CGC-O1C
29	fI	202	PEB	CAC-CBC-CGC-O2C
29	hI	202	PEB	CAC-CBC-CGC-O1C
29	hI	202	PEB	CAC-CBC-CGC-O2C
29	jI	202	PEB	CAC-CBC-CGC-O1C
29	jI	202	PEB	CAC-CBC-CGC-O2C
29	II	202	PEB	CAC-CBC-CGC-O1C
29	II	202	PEB	CAC-CBC-CGC-O2C
29	AJ	202	PEB	CAC-CBC-CGC-O2C
29	CJ	202	PEB	CAC-CBC-CGC-O2C
29	EJ	202	PEB	CAC-CBC-CGC-O2C
29	GJ	202	PEB	CAC-CBC-CGC-O2C
29	IJ	202	PEB	CAC-CBC-CGC-O2C
29	KJ	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	MJ	202	PEB	CAC-CBC-CGC-O2C
29	OJ	202	PEB	CAC-CBC-CGC-O2C
29	WJ	203	PEB	CAC-CBC-CGC-O2C
29	YJ	202	PEB	CAC-CBC-CGC-O2C
29	aJ	202	PEB	CAC-CBC-CGC-O2C
29	eJ	202	PEB	CAC-CBC-CGC-O2C
29	gJ	202	PEB	CAC-CBC-CGC-O2C
29	iJ	202	PEB	CAC-CBC-CGC-O2C
29	kJ	202	PEB	CAC-CBC-CGC-O2C
29	mJ	202	PEB	CAC-CBC-CGC-O2C
29	oJ	202	PEB	CAC-CBC-CGC-O2C
29	sJ	202	PEB	CAC-CBC-CGC-O2C
29	wJ	302	PEB	CAC-CBC-CGC-O2C
29	zJ	501	PEB	CAC-CBC-CGC-O1C
29	AL	202	PEB	CAC-CBC-CGC-O2C
29	CL	202	PEB	CAC-CBC-CGC-O2C
29	EL	202	PEB	CAC-CBC-CGC-O2C
29	GL	202	PEB	CAC-CBC-CGC-O2C
29	IL	202	PEB	CAC-CBC-CGC-O2C
29	KL	202	PEB	CAC-CBC-CGC-O2C
29	ML	202	PEB	CAC-CBC-CGC-O2C
29	OL	202	PEB	CAC-CBC-CGC-O2C
29	WL	203	PEB	CAC-CBC-CGC-O2C
29	YL	202	PEB	CAC-CBC-CGC-O2C
29	aL	202	PEB	CAC-CBC-CGC-O2C
29	eL	202	PEB	CAC-CBC-CGC-O2C
29	gL	202	PEB	CAC-CBC-CGC-O2C
29	iL	202	PEB	CAC-CBC-CGC-O2C
29	kL	202	PEB	CAC-CBC-CGC-O2C
29	mL	202	PEB	CAC-CBC-CGC-O2C
29	oL	202	PEB	CAC-CBC-CGC-O2C
29	sL	202	PEB	CAC-CBC-CGC-O2C
29	wL	302	PEB	CAC-CBC-CGC-O2C
29	xL	302	PEB	CAC-CBC-CGC-O2C
29	AM	302	PEB	CAC-CBC-CGC-O1C
29	AM	302	PEB	CAB-CBB-CGB-O1B
29	CM	202	PEB	CAB-CBB-CGB-O1B
29	EM	202	PEB	CAB-CBB-CGB-O1B
29	GM	202	PEB	CAB-CBB-CGB-O1B
29	IM	202	PEB	CAB-CBB-CGB-O1B
29	KM	202	PEB	CAB-CBB-CGB-O1B
29	MM	202	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	OM	202	PEB	CAB-CBB-CGB-O1B
29	QM	204	PEB	CAB-CBB-CGB-O1B
29	SM	202	PEB	CAB-CBB-CGB-O1B
29	WM	202	PEB	CAB-CBB-CGB-O1B
29	YM	203	PEB	CAB-CBB-CGB-O1B
29	aM	202	PEB	CAB-CBB-CGB-O1B
29	dM	202	PEB	CAB-CBB-CGB-O1B
29	fM	202	PEB	CAB-CBB-CGB-O1B
29	hM	202	PEB	CAB-CBB-CGB-O1B
29	jM	202	PEB	CAB-CBB-CGB-O1B
29	lM	202	PEB	CAB-CBB-CGB-O1B
29	MN	401	PEB	CAB-CBB-CGB-O1B
29	BO	202	PEB	CAC-CBC-CGC-O2C
29	BO	202	PEB	CAB-CBB-CGB-O2B
29	FO	202	PEB	CAC-CBC-CGC-O2C
29	FO	202	PEB	CAB-CBB-CGB-O2B
29	HO	202	PEB	CAC-CBC-CGC-O2C
29	HO	202	PEB	CAB-CBB-CGB-O2B
29	IO	203	PEB	CAC-CBC-CGC-O2C
29	IO	203	PEB	CAB-CBB-CGB-O2B
29	JO	202	PEB	CAC-CBC-CGC-O2C
29	JO	202	PEB	CAB-CBB-CGB-O2B
29	BQ	203	PEB	CAB-CBB-CGB-O2B
29	FQ	203	PEB	CAB-CBB-CGB-O2B
29	LQ	202	PEB	CAB-CBB-CGB-O2B
29	MQ	401	PEB	CAB-CBB-CGB-O1B
30	MA	402	PUB	CAB-CBB-CGB-O1B
30	AF	302	PUB	CAC-CBC-CGC-O2C
30	AI	302	PUB	CAC-CBC-CGC-O2C
31	K9	1001	CYC	CAA-CBA-CGA-O2A
29	O1	201	PEB	CAC-CBC-CGC-O2C
29	Q1	201	PEB	CAC-CBC-CGC-O2C
29	S1	201	PEB	CAC-CBC-CGC-O2C
29	U1	202	PEB	CAC-CBC-CGC-O2C
29	W1	201	PEB	CAC-CBC-CGC-O2C
29	Z1	202	PEB	CAC-CBC-CGC-O2C
29	b1	201	PEB	CAC-CBC-CGC-O2C
29	d1	201	PEB	CAC-CBC-CGC-O2C
29	f1	201	PEB	CAC-CBC-CGC-O2C
29	h1	201	PEB	CAC-CBC-CGC-O2C
29	j1	201	PEB	CAC-CBC-CGC-O2C
29	l1	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	e2	401	PEB	CAB-CBB-CGB-O2B
29	e2	402	PEB	CAB-CBB-CGB-O2B
29	V2	201	PEB	CAB-CBB-CGB-O2B
29	A3	201	PEB	CAC-CBC-CGC-O1C
29	G3	201	PEB	CAC-CBC-CGC-O1C
29	I3	201	PEB	CAC-CBC-CGC-O1C
29	K3	201	PEB	CAC-CBC-CGC-O1C
29	M3	203	PEB	CAB-CBB-CGB-O1B
29	C4	202	PEB	CAC-CBC-CGC-O1C
29	E4	202	PEB	CAC-CBC-CGC-O1C
29	K4	202	PEB	CAC-CBC-CGC-O2C
29	G5	202	PEB	CAB-CBB-CGB-O2B
29	I5	201	PEB	CAB-CBB-CGB-O1B
29	K5	201	PEB	CAB-CBB-CGB-O1B
29	A5	201	PEB	CAB-CBB-CGB-O1B
29	C5	201	PEB	CAB-CBB-CGB-O1B
29	B8	202	PEB	CAB-CBB-CGB-O2B
29	G8	202	PEB	CAB-CBB-CGB-O2B
29	I8	201	PEB	CAB-CBB-CGB-O1B
29	K8	201	PEB	CAB-CBB-CGB-O1B
29	L8	201	PEB	CAC-CBC-CGC-O1C
29	A8	201	PEB	CAB-CBB-CGB-O1B
29	C8	201	PEB	CAB-CBB-CGB-O1B
29	A9	304	PEB	CAC-CBC-CGC-O1C
29	BA	201	PEB	CAB-CBB-CGB-O1B
29	DA	201	PEB	CAB-CBB-CGB-O1B
29	FA	201	PEB	CAB-CBB-CGB-O1B
29	HA	201	PEB	CAB-CBB-CGB-O1B
29	JA	201	PEB	CAB-CBB-CGB-O1B
29	LA	201	PEB	CAB-CBB-CGB-O1B
29	MA	401	PEB	CAB-CBB-CGB-O1B
29	MD	202	PEB	CAC-CBC-CGC-O2C
29	LG	203	PEB	CAB-CBB-CGB-O2B
29	MG	401	PEB	CAB-CBB-CGB-O2B
29	MG	404	PEB	CAB-CBB-CGB-O1B
29	UJ	202	PEB	CAC-CBC-CGC-O2C
29	cJ	202	PEB	CAC-CBC-CGC-O2C
29	xJ	302	PEB	CAC-CBC-CGC-O2C
29	yJ	301	PEB	CAC-CBC-CGC-O2C
29	OK	201	PEB	CAC-CBC-CGC-O2C
29	QK	201	PEB	CAC-CBC-CGC-O2C
29	SK	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	UK	202	PEB	CAC-CBC-CGC-O2C
29	WK	201	PEB	CAC-CBC-CGC-O2C
29	ZK	202	PEB	CAC-CBC-CGC-O2C
29	bK	201	PEB	CAC-CBC-CGC-O2C
29	dK	201	PEB	CAC-CBC-CGC-O2C
29	fK	201	PEB	CAC-CBC-CGC-O2C
29	hK	201	PEB	CAC-CBC-CGC-O2C
29	jK	201	PEB	CAC-CBC-CGC-O2C
29	lK	201	PEB	CAC-CBC-CGC-O2C
29	UL	202	PEB	CAC-CBC-CGC-O2C
29	cL	202	PEB	CAC-CBC-CGC-O2C
29	yL	301	PEB	CAC-CBC-CGC-O2C
29	BN	201	PEB	CAB-CBB-CGB-O1B
29	DN	201	PEB	CAB-CBB-CGB-O1B
29	FN	201	PEB	CAB-CBB-CGB-O1B
29	HN	201	PEB	CAB-CBB-CGB-O1B
29	JN	201	PEB	CAB-CBB-CGB-O1B
29	LN	201	PEB	CAB-CBB-CGB-O1B
29	AO	201	PEB	CAC-CBC-CGC-O1C
29	GO	201	PEB	CAC-CBC-CGC-O1C
29	IO	201	PEB	CAC-CBC-CGC-O1C
29	KO	201	PEB	CAC-CBC-CGC-O1C
29	MO	203	PEB	CAB-CBB-CGB-O1B
29	NO	203	PEB	CAB-CBB-CGB-O1B
29	JQ	203	PEB	CAB-CBB-CGB-O2B
29	MQ	403	PEB	CAB-CBB-CGB-O2B
29	MQ	406	PEB	CAB-CBB-CGB-O1B
29	MQ	406	PEB	CAB-CBB-CGB-O2B
29	eR	401	PEB	CAB-CBB-CGB-O2B
29	NR	201	PEB	CAB-CBB-CGB-O2B
29	TR	201	PEB	CAB-CBB-CGB-O2B
29	VR	201	PEB	CAB-CBB-CGB-O2B
30	yJ	302	PUB	CAB-CBB-CGB-O1B
30	yL	302	PUB	CAB-CBB-CGB-O1B
30	MN	402	PUB	CAB-CBB-CGB-O1B
31	D1	1001	CYC	CAA-CBA-CGA-O1A
31	F1	1001	CYC	CAA-CBA-CGA-O1A
31	H1	1001	CYC	CAA-CBA-CGA-O1A
31	J1	1001	CYC	CAA-CBA-CGA-O1A
31	L1	1001	CYC	CAA-CBA-CGA-O1A
31	N1	1001	CYC	CAA-CBA-CGA-O1A
31	DK	1001	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
31	FK	1001	CYC	CAA-CBA-CGA-O1A
31	HK	1001	CYC	CAA-CBA-CGA-O1A
31	JK	1001	CYC	CAA-CBA-CGA-O1A
31	LK	1001	CYC	CAA-CBA-CGA-O1A
31	NK	1001	CYC	CAA-CBA-CGA-O1A
29	D1	1002	PEB	CAB-CBB-CGB-O2B
29	F1	1002	PEB	CAB-CBB-CGB-O2B
29	H1	1002	PEB	CAB-CBB-CGB-O2B
29	J1	1002	PEB	CAB-CBB-CGB-O2B
29	L1	1002	PEB	CAB-CBB-CGB-O2B
29	N1	1002	PEB	CAB-CBB-CGB-O2B
29	C3	201	PEB	CAC-CBC-CGC-O1C
29	D3	202	PEB	CAC-CBC-CGC-O2C
29	E3	201	PEB	CAC-CBC-CGC-O1C
29	B4	202	PEB	CAB-CBB-CGB-O1B
29	C4	203	PEB	CAC-CBC-CGC-O1C
29	E4	203	PEB	CAC-CBC-CGC-O1C
29	F4	202	PEB	CAB-CBB-CGB-O1B
29	G4	202	PEB	CAC-CBC-CGC-O1C
29	G4	203	PEB	CAC-CBC-CGC-O1C
29	I4	202	PEB	CAC-CBC-CGC-O1C
29	J4	202	PEB	CAB-CBB-CGB-O1B
29	K4	202	PEB	CAC-CBC-CGC-O1C
29	K4	203	PEB	CAC-CBC-CGC-O1C
29	M4	202	PEB	CAC-CBC-CGC-O1C
29	B5	201	PEB	CAC-CBC-CGC-O2C
29	B5	202	PEB	CAC-CBC-CGC-O1C
29	B5	203	PEB	CAB-CBB-CGB-O2B
29	F5	201	PEB	CAC-CBC-CGC-O2C
29	F5	202	PEB	CAC-CBC-CGC-O1C
29	F5	203	PEB	CAB-CBB-CGB-O2B
29	G5	201	PEB	CAC-CBC-CGC-O2C
29	G5	202	PEB	CAC-CBC-CGC-O1C
29	G5	203	PEB	CAB-CBB-CGB-O2B
29	H5	201	PEB	CAC-CBC-CGC-O2C
29	H5	202	PEB	CAC-CBC-CGC-O1C
29	K5	203	PEB	CAB-CBB-CGB-O2B
29	L5	201	PEB	CAC-CBC-CGC-O2C
29	L5	202	PEB	CAC-CBC-CGC-O1C
29	L5	203	PEB	CAB-CBB-CGB-O2B
29	A5	203	PEB	CAB-CBB-CGB-O2B
29	R7	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	m7	201	PEB	CAC-CBC-CGC-O1C
29	B8	201	PEB	CAC-CBC-CGC-O2C
29	B8	202	PEB	CAC-CBC-CGC-O1C
29	B8	203	PEB	CAB-CBB-CGB-O2B
29	F8	201	PEB	CAC-CBC-CGC-O2C
29	F8	202	PEB	CAC-CBC-CGC-O1C
29	F8	203	PEB	CAB-CBB-CGB-O2B
29	G8	201	PEB	CAC-CBC-CGC-O2C
29	G8	202	PEB	CAC-CBC-CGC-O1C
29	G8	203	PEB	CAB-CBB-CGB-O2B
29	H8	202	PEB	CAC-CBC-CGC-O1C
29	K8	203	PEB	CAB-CBB-CGB-O2B
29	L8	201	PEB	CAC-CBC-CGC-O2C
29	L8	202	PEB	CAC-CBC-CGC-O1C
29	L8	203	PEB	CAB-CBB-CGB-O2B
29	A8	203	PEB	CAB-CBB-CGB-O2B
29	C8	203	PEB	CAB-CBB-CGB-O2B
29	R9	201	PEB	CAC-CBC-CGC-O1C
29	m9	201	PEB	CAC-CBC-CGC-O1C
29	BA	202	PEB	CAC-CBC-CGC-O1C
29	DA	202	PEB	CAC-CBC-CGC-O1C
29	FA	202	PEB	CAC-CBC-CGC-O1C
29	HA	202	PEB	CAC-CBC-CGC-O1C
29	JA	202	PEB	CAC-CBC-CGC-O1C
29	LA	202	PEB	CAC-CBC-CGC-O1C
29	AB	303	PEB	CAC-CBC-CGC-O1C
29	CD	202	PEB	CAC-CBC-CGC-O1C
29	CD	203	PEB	CAC-CBC-CGC-O1C
29	ED	201	PEB	CAC-CBC-CGC-O1C
29	ED	202	PEB	CAC-CBC-CGC-O1C
29	FD	202	PEB	CAB-CBB-CGB-O1B
29	GD	202	PEB	CAC-CBC-CGC-O1C
29	GD	203	PEB	CAC-CBC-CGC-O1C
29	ID	202	PEB	CAC-CBC-CGC-O1C
29	ID	203	PEB	CAC-CBC-CGC-O1C
29	JD	202	PEB	CAB-CBB-CGB-O1B
29	KD	202	PEB	CAC-CBC-CGC-O1C
29	KD	203	PEB	CAC-CBC-CGC-O1C
29	MD	202	PEB	CAC-CBC-CGC-O1C
29	MD	203	PEB	CAC-CBC-CGC-O1C
29	AG	202	PEB	CAC-CBC-CGC-O1C
29	BG	203	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	CG	202	PEB	CAC-CBC-CGC-O1C
29	DG	203	PEB	CAB-CBB-CGB-O2B
29	EG	202	PEB	CAC-CBC-CGC-O1C
29	FG	203	PEB	CAB-CBB-CGB-O2B
29	GG	202	PEB	CAC-CBC-CGC-O1C
29	HG	203	PEB	CAB-CBB-CGB-O2B
29	IG	202	PEB	CAC-CBC-CGC-O1C
29	KG	202	PEB	CAC-CBC-CGC-O1C
29	MG	404	PEB	CAB-CBB-CGB-O2B
29	QJ	202	PEB	CAC-CBC-CGC-O2C
29	SJ	202	PEB	CAC-CBC-CGC-O2C
29	qJ	202	PEB	CAC-CBC-CGC-O2C
29	uJ	203	PEB	CAC-CBC-CGC-O2C
29	DK	1002	PEB	CAC-CBC-CGC-O1C
29	FK	1002	PEB	CAB-CBB-CGB-O2B
29	HK	1002	PEB	CAB-CBB-CGB-O2B
29	JK	1002	PEB	CAB-CBB-CGB-O2B
29	LK	1002	PEB	CAB-CBB-CGB-O2B
29	NK	1002	PEB	CAB-CBB-CGB-O2B
29	QL	202	PEB	CAC-CBC-CGC-O2C
29	SL	202	PEB	CAC-CBC-CGC-O2C
29	qL	202	PEB	CAC-CBC-CGC-O2C
29	uL	203	PEB	CAC-CBC-CGC-O2C
29	zL	501	PEB	CAC-CBC-CGC-O2C
29	AM	303	PEB	CAC-CBC-CGC-O1C
29	BN	202	PEB	CAC-CBC-CGC-O1C
29	DN	202	PEB	CAC-CBC-CGC-O1C
29	FN	202	PEB	CAC-CBC-CGC-O1C
29	HN	202	PEB	CAC-CBC-CGC-O1C
29	JN	202	PEB	CAC-CBC-CGC-O1C
29	LN	202	PEB	CAC-CBC-CGC-O1C
29	CO	201	PEB	CAC-CBC-CGC-O1C
29	EO	201	PEB	CAC-CBC-CGC-O1C
29	AQ	202	PEB	CAC-CBC-CGC-O1C
29	CQ	202	PEB	CAC-CBC-CGC-O1C
29	DQ	203	PEB	CAB-CBB-CGB-O2B
29	EQ	202	PEB	CAC-CBC-CGC-O1C
29	GQ	202	PEB	CAC-CBC-CGC-O1C
29	HQ	203	PEB	CAB-CBB-CGB-O2B
29	IQ	202	PEB	CAC-CBC-CGC-O1C
29	KQ	202	PEB	CAC-CBC-CGC-O1C
29	XR	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
30	yJ	302	PUB	CAB-CBB-CGB-O2B
30	yJ	303	PUB	CAB-CBB-CGB-O2B
30	yL	302	PUB	CAB-CBB-CGB-O2B
29	GD	201	PEB	C2B-C3B-CAB-CBB
29	D1	1002	PEB	CAC-CBC-CGC-O1C
29	P1	203	PEB	CAB-CBB-CGB-O1B
29	R1	203	PEB	CAB-CBB-CGB-O1B
29	T1	202	PEB	CAB-CBB-CGB-O1B
29	Y1	202	PEB	CAB-CBB-CGB-O1B
29	a1	203	PEB	CAB-CBB-CGB-O1B
29	m1	202	PEB	CAB-CBB-CGB-O1B
29	S2	201	PEB	CAC-CBC-CGC-O1C
29	B3	201	PEB	CAB-CBB-CGB-O2B
29	D3	201	PEB	CAB-CBB-CGB-O2B
29	F3	201	PEB	CAB-CBB-CGB-O2B
29	H3	201	PEB	CAB-CBB-CGB-O2B
29	J3	201	PEB	CAB-CBB-CGB-O2B
29	L3	201	PEB	CAB-CBB-CGB-O2B
29	M3	203	PEB	CAC-CBC-CGC-O2C
29	D4	202	PEB	CAB-CBB-CGB-O1B
29	I4	203	PEB	CAB-CBB-CGB-O2B
29	L4	202	PEB	CAB-CBB-CGB-O1B
29	B5	201	PEB	CAB-CBB-CGB-O1B
29	F5	201	PEB	CAB-CBB-CGB-O1B
29	H5	203	PEB	CAB-CBB-CGB-O2B
29	I5	203	PEB	CAB-CBB-CGB-O2B
29	L5	201	PEB	CAB-CBB-CGB-O1B
29	C5	203	PEB	CAB-CBB-CGB-O2B
29	A7	305	PEB	CAC-CBC-CGC-O2C
29	P7	201	PEB	CAC-CBC-CGC-O1C
29	P7	203	PEB	CAC-CBC-CGC-O2C
29	R7	203	PEB	CAC-CBC-CGC-O2C
29	T7	201	PEB	CAC-CBC-CGC-O1C
29	T7	203	PEB	CAC-CBC-CGC-O2C
29	V7	201	PEB	CAC-CBC-CGC-O1C
29	V7	203	PEB	CAC-CBC-CGC-O2C
29	Y7	201	PEB	CAC-CBC-CGC-O1C
29	Y7	203	PEB	CAC-CBC-CGC-O2C
29	a7	201	PEB	CAC-CBC-CGC-O1C
29	a7	203	PEB	CAC-CBC-CGC-O2C
29	c7	201	PEB	CAC-CBC-CGC-O1C
29	c7	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	e7	201	PEB	CAC-CBC-CGC-O1C
29	e7	203	PEB	CAC-CBC-CGC-O2C
29	g7	201	PEB	CAC-CBC-CGC-O1C
29	g7	203	PEB	CAC-CBC-CGC-O2C
29	i7	201	PEB	CAC-CBC-CGC-O1C
29	i7	203	PEB	CAC-CBC-CGC-O2C
29	k7	201	PEB	CAC-CBC-CGC-O1C
29	k7	203	PEB	CAC-CBC-CGC-O2C
29	m7	203	PEB	CAC-CBC-CGC-O2C
29	B8	201	PEB	CAB-CBB-CGB-O1B
29	F8	201	PEB	CAB-CBB-CGB-O1B
29	H8	201	PEB	CAC-CBC-CGC-O2C
29	H8	201	PEB	CAB-CBB-CGB-O1B
29	H8	203	PEB	CAB-CBB-CGB-O2B
29	I8	203	PEB	CAB-CBB-CGB-O2B
29	L8	201	PEB	CAB-CBB-CGB-O1B
29	A9	305	PEB	CAC-CBC-CGC-O2C
29	P9	201	PEB	CAC-CBC-CGC-O1C
29	P9	203	PEB	CAC-CBC-CGC-O2C
29	R9	203	PEB	CAC-CBC-CGC-O2C
29	T9	201	PEB	CAC-CBC-CGC-O1C
29	T9	203	PEB	CAC-CBC-CGC-O2C
29	V9	201	PEB	CAC-CBC-CGC-O1C
29	V9	203	PEB	CAC-CBC-CGC-O2C
29	Y9	201	PEB	CAC-CBC-CGC-O1C
29	Y9	203	PEB	CAC-CBC-CGC-O2C
29	a9	201	PEB	CAC-CBC-CGC-O1C
29	a9	203	PEB	CAC-CBC-CGC-O2C
29	c9	201	PEB	CAC-CBC-CGC-O1C
29	c9	203	PEB	CAC-CBC-CGC-O2C
29	e9	201	PEB	CAC-CBC-CGC-O1C
29	e9	203	PEB	CAC-CBC-CGC-O2C
29	g9	201	PEB	CAC-CBC-CGC-O1C
29	g9	203	PEB	CAC-CBC-CGC-O2C
29	i9	201	PEB	CAC-CBC-CGC-O1C
29	i9	203	PEB	CAC-CBC-CGC-O2C
29	k9	201	PEB	CAC-CBC-CGC-O1C
29	k9	203	PEB	CAC-CBC-CGC-O2C
29	m9	203	PEB	CAC-CBC-CGC-O2C
29	AA	201	PEB	CAB-CBB-CGB-O2B
29	CA	201	PEB	CAB-CBB-CGB-O2B
29	EA	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	GA	201	PEB	CAB-CBB-CGB-O2B
29	IA	201	PEB	CAB-CBB-CGB-O2B
29	KA	201	PEB	CAB-CBB-CGB-O2B
29	AB	301	PEB	CAC-CBC-CGC-O1C
29	AC	201	PEB	CAB-CBB-CGB-O1B
29	CC	201	PEB	CAB-CBB-CGB-O1B
29	EC	201	PEB	CAB-CBB-CGB-O1B
29	KC	202	PEB	CAB-CBB-CGB-O1B
29	BD	202	PEB	CAB-CBB-CGB-O1B
29	DD	202	PEB	CAB-CBB-CGB-O1B
29	HD	202	PEB	CAB-CBB-CGB-O1B
29	LD	202	PEB	CAB-CBB-CGB-O1B
29	AE	201	PEB	CAB-CBB-CGB-O1B
29	CE	201	PEB	CAB-CBB-CGB-O1B
29	EE	201	PEB	CAB-CBB-CGB-O1B
29	KE	202	PEB	CAB-CBB-CGB-O1B
29	QF	201	PEB	CAB-CBB-CGB-O2B
29	SF	201	PEB	CAB-CBB-CGB-O2B
29	UF	202	PEB	CAB-CBB-CGB-O2B
29	WF	201	PEB	CAB-CBB-CGB-O2B
29	ZF	201	PEB	CAB-CBB-CGB-O2B
29	bF	201	PEB	CAB-CBB-CGB-O2B
29	dF	202	PEB	CAB-CBB-CGB-O2B
29	fF	201	PEB	CAB-CBB-CGB-O2B
29	hF	201	PEB	CAB-CBB-CGB-O2B
29	jF	201	PEB	CAB-CBB-CGB-O2B
29	lF	201	PEB	CAB-CBB-CGB-O2B
29	DG	201	PEB	CAC-CBC-CGC-O2C
29	HG	203	PEB	CAB-CBB-CGB-O1B
29	QI	201	PEB	CAB-CBB-CGB-O2B
29	SI	201	PEB	CAB-CBB-CGB-O2B
29	UI	202	PEB	CAB-CBB-CGB-O2B
29	WI	201	PEB	CAB-CBB-CGB-O2B
29	ZI	201	PEB	CAB-CBB-CGB-O2B
29	bI	201	PEB	CAB-CBB-CGB-O2B
29	dI	202	PEB	CAB-CBB-CGB-O2B
29	fI	201	PEB	CAB-CBB-CGB-O2B
29	hI	201	PEB	CAB-CBB-CGB-O2B
29	jI	201	PEB	CAB-CBB-CGB-O2B
29	lI	201	PEB	CAB-CBB-CGB-O2B
29	AJ	201	PEB	CAC-CBC-CGC-O1C
29	CJ	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	EJ	201	PEB	CAC-CBC-CGC-O1C
29	KJ	201	PEB	CAC-CBC-CGC-O1C
29	MJ	201	PEB	CAC-CBC-CGC-O1C
29	OJ	201	PEB	CAC-CBC-CGC-O1C
29	QJ	201	PEB	CAC-CBC-CGC-O1C
29	SJ	201	PEB	CAC-CBC-CGC-O1C
29	UJ	201	PEB	CAC-CBC-CGC-O1C
29	WJ	202	PEB	CAC-CBC-CGC-O1C
29	YJ	201	PEB	CAC-CBC-CGC-O1C
29	aJ	201	PEB	CAC-CBC-CGC-O1C
29	cJ	201	PEB	CAC-CBC-CGC-O1C
29	eJ	201	PEB	CAC-CBC-CGC-O1C
29	gJ	201	PEB	CAC-CBC-CGC-O1C
29	iJ	201	PEB	CAC-CBC-CGC-O1C
29	kJ	201	PEB	CAC-CBC-CGC-O1C
29	mJ	201	PEB	CAC-CBC-CGC-O1C
29	oJ	201	PEB	CAC-CBC-CGC-O1C
29	qJ	201	PEB	CAC-CBC-CGC-O1C
29	sJ	201	PEB	CAC-CBC-CGC-O1C
29	uJ	202	PEB	CAC-CBC-CGC-O1C
29	wJ	303	PEB	CAB-CBB-CGB-O2B
29	xJ	303	PEB	CAB-CBB-CGB-O2B
29	DK	1002	PEB	CAB-CBB-CGB-O2B
29	HK	1002	PEB	CAC-CBC-CGC-O1C
29	PK	203	PEB	CAB-CBB-CGB-O1B
29	RK	203	PEB	CAB-CBB-CGB-O1B
29	TK	202	PEB	CAB-CBB-CGB-O1B
29	YK	202	PEB	CAB-CBB-CGB-O1B
29	aK	203	PEB	CAB-CBB-CGB-O1B
29	mK	202	PEB	CAB-CBB-CGB-O1B
29	AL	201	PEB	CAC-CBC-CGC-O1C
29	CL	201	PEB	CAC-CBC-CGC-O1C
29	EL	201	PEB	CAC-CBC-CGC-O1C
29	KL	201	PEB	CAC-CBC-CGC-O1C
29	ML	201	PEB	CAC-CBC-CGC-O1C
29	OL	201	PEB	CAC-CBC-CGC-O1C
29	QL	201	PEB	CAC-CBC-CGC-O1C
29	SL	201	PEB	CAC-CBC-CGC-O1C
29	UL	201	PEB	CAC-CBC-CGC-O1C
29	WL	202	PEB	CAC-CBC-CGC-O1C
29	YL	201	PEB	CAC-CBC-CGC-O1C
29	aL	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	cL	201	PEB	CAC-CBC-CGC-O1C
29	eL	201	PEB	CAC-CBC-CGC-O1C
29	gL	201	PEB	CAC-CBC-CGC-O1C
29	iL	201	PEB	CAC-CBC-CGC-O1C
29	kL	201	PEB	CAC-CBC-CGC-O1C
29	mL	201	PEB	CAC-CBC-CGC-O1C
29	oL	201	PEB	CAC-CBC-CGC-O1C
29	qL	201	PEB	CAC-CBC-CGC-O1C
29	sL	201	PEB	CAC-CBC-CGC-O1C
29	uL	202	PEB	CAC-CBC-CGC-O1C
29	wL	303	PEB	CAB-CBB-CGB-O2B
29	xL	303	PEB	CAB-CBB-CGB-O2B
29	AM	301	PEB	CAC-CBC-CGC-O1C
29	AN	201	PEB	CAB-CBB-CGB-O2B
29	CN	201	PEB	CAB-CBB-CGB-O2B
29	EN	201	PEB	CAB-CBB-CGB-O2B
29	GN	201	PEB	CAB-CBB-CGB-O2B
29	IN	201	PEB	CAB-CBB-CGB-O2B
29	KN	201	PEB	CAB-CBB-CGB-O2B
29	BO	201	PEB	CAB-CBB-CGB-O2B
29	DO	201	PEB	CAB-CBB-CGB-O2B
29	DO	202	PEB	CAC-CBC-CGC-O2C
29	FO	201	PEB	CAB-CBB-CGB-O2B
29	HO	201	PEB	CAB-CBB-CGB-O2B
29	JO	201	PEB	CAB-CBB-CGB-O2B
29	LO	201	PEB	CAB-CBB-CGB-O2B
29	MO	203	PEB	CAC-CBC-CGC-O2C
29	NO	203	PEB	CAC-CBC-CGC-O2C
29	DQ	201	PEB	CAC-CBC-CGC-O2C
29	SR	201	PEB	CAC-CBC-CGC-O2C
30	yL	303	PUB	CAB-CBB-CGB-O2B
31	VP	1001	CYC	C2A-CAA-CBA-CGA
31	xP	1001	CYC	C2A-CAA-CBA-CGA
29	F1	1002	PEB	CAC-CBC-CGC-O1C
29	H1	1002	PEB	CAC-CBC-CGC-O1C
29	J1	1002	PEB	CAC-CBC-CGC-O1C
29	L1	1002	PEB	CAC-CBC-CGC-O1C
29	N1	1002	PEB	CAC-CBC-CGC-O1C
29	V1	203	PEB	CAB-CBB-CGB-O1B
29	c1	203	PEB	CAB-CBB-CGB-O1B
29	e1	203	PEB	CAB-CBB-CGB-O1B
29	g1	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	i1	203	PEB	CAB-CBB-CGB-O1B
29	k1	203	PEB	CAB-CBB-CGB-O1B
29	e2	401	PEB	CAB-CBB-CGB-O1B
29	M2	201	PEB	CAC-CBC-CGC-O1C
29	M2	201	PEB	CAC-CBC-CGC-O2C
29	O2	201	PEB	CAC-CBC-CGC-O1C
29	Q2	201	PEB	CAC-CBC-CGC-O1C
29	Q2	201	PEB	CAC-CBC-CGC-O2C
29	U2	201	PEB	CAC-CBC-CGC-O1C
29	W2	201	PEB	CAC-CBC-CGC-O1C
29	W2	201	PEB	CAC-CBC-CGC-O2C
29	M3	202	PEB	CAB-CBB-CGB-O1B
29	N3	202	PEB	CAB-CBB-CGB-O1B
29	N3	203	PEB	CAC-CBC-CGC-O2C
29	H4	202	PEB	CAB-CBB-CGB-O1B
29	G5	201	PEB	CAB-CBB-CGB-O1B
29	H5	201	PEB	CAB-CBB-CGB-O1B
29	G8	201	PEB	CAB-CBB-CGB-O1B
29	GC	201	PEB	CAB-CBB-CGB-O1B
29	IC	201	PEB	CAB-CBB-CGB-O1B
29	GE	201	PEB	CAB-CBB-CGB-O1B
29	IE	201	PEB	CAB-CBB-CGB-O1B
29	OF	201	PEB	CAB-CBB-CGB-O2B
29	PF	203	PEB	CAC-CBC-CGC-O1C
29	PF	203	PEB	CAC-CBC-CGC-O2C
29	RF	202	PEB	CAC-CBC-CGC-O1C
29	TF	201	PEB	CAB-CBB-CGB-O2B
29	TF	202	PEB	CAC-CBC-CGC-O1C
29	TF	202	PEB	CAC-CBC-CGC-O2C
29	VF	203	PEB	CAC-CBC-CGC-O1C
29	VF	203	PEB	CAC-CBC-CGC-O2C
29	YF	203	PEB	CAC-CBC-CGC-O1C
29	aF	203	PEB	CAC-CBC-CGC-O1C
29	aF	203	PEB	CAC-CBC-CGC-O2C
29	cF	202	PEB	CAC-CBC-CGC-O1C
29	cF	202	PEB	CAC-CBC-CGC-O2C
29	eF	203	PEB	CAC-CBC-CGC-O1C
29	eF	203	PEB	CAC-CBC-CGC-O2C
29	gF	203	PEB	CAC-CBC-CGC-O1C
29	iF	203	PEB	CAC-CBC-CGC-O1C
29	iF	203	PEB	CAC-CBC-CGC-O2C
29	kF	203	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	kF	203	PEB	CAC-CBC-CGC-O2C
29	mF	203	PEB	CAC-CBC-CGC-O1C
29	mF	203	PEB	CAC-CBC-CGC-O2C
29	BG	201	PEB	CAC-CBC-CGC-O2C
29	BG	203	PEB	CAB-CBB-CGB-O1B
29	DG	203	PEB	CAB-CBB-CGB-O1B
29	FG	201	PEB	CAC-CBC-CGC-O2C
29	FG	203	PEB	CAB-CBB-CGB-O1B
29	HG	201	PEB	CAC-CBC-CGC-O2C
29	JG	201	PEB	CAC-CBC-CGC-O2C
29	JG	203	PEB	CAB-CBB-CGB-O1B
29	LG	201	PEB	CAC-CBC-CGC-O2C
29	LG	203	PEB	CAB-CBB-CGB-O1B
29	OI	201	PEB	CAB-CBB-CGB-O2B
29	PI	203	PEB	CAC-CBC-CGC-O1C
29	PI	203	PEB	CAC-CBC-CGC-O2C
29	RI	202	PEB	CAC-CBC-CGC-O1C
29	TI	202	PEB	CAC-CBC-CGC-O1C
29	TI	202	PEB	CAC-CBC-CGC-O2C
29	VI	203	PEB	CAC-CBC-CGC-O1C
29	VI	203	PEB	CAC-CBC-CGC-O2C
29	YI	203	PEB	CAC-CBC-CGC-O1C
29	aI	203	PEB	CAC-CBC-CGC-O1C
29	aI	203	PEB	CAC-CBC-CGC-O2C
29	cI	202	PEB	CAC-CBC-CGC-O1C
29	cI	202	PEB	CAC-CBC-CGC-O2C
29	eI	203	PEB	CAC-CBC-CGC-O1C
29	eI	203	PEB	CAC-CBC-CGC-O2C
29	gI	203	PEB	CAC-CBC-CGC-O1C
29	iI	203	PEB	CAC-CBC-CGC-O1C
29	iI	203	PEB	CAC-CBC-CGC-O2C
29	kI	203	PEB	CAC-CBC-CGC-O1C
29	kI	203	PEB	CAC-CBC-CGC-O2C
29	mI	203	PEB	CAC-CBC-CGC-O1C
29	mI	203	PEB	CAC-CBC-CGC-O2C
29	GJ	201	PEB	CAC-CBC-CGC-O1C
29	IJ	201	PEB	CAC-CBC-CGC-O1C
29	FK	1002	PEB	CAC-CBC-CGC-O1C
29	JK	1002	PEB	CAC-CBC-CGC-O1C
29	LK	1002	PEB	CAC-CBC-CGC-O1C
29	NK	1002	PEB	CAC-CBC-CGC-O1C
29	VK	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	cK	203	PEB	CAB-CBB-CGB-O1B
29	eK	203	PEB	CAB-CBB-CGB-O1B
29	gK	203	PEB	CAB-CBB-CGB-O1B
29	iK	203	PEB	CAB-CBB-CGB-O1B
29	kK	203	PEB	CAB-CBB-CGB-O1B
29	GL	201	PEB	CAC-CBC-CGC-O1C
29	IL	201	PEB	CAC-CBC-CGC-O1C
29	MO	202	PEB	CAB-CBB-CGB-O1B
29	NO	202	PEB	CAB-CBB-CGB-O1B
29	BQ	201	PEB	CAC-CBC-CGC-O2C
29	BQ	203	PEB	CAB-CBB-CGB-O1B
29	DQ	203	PEB	CAB-CBB-CGB-O1B
29	FQ	201	PEB	CAC-CBC-CGC-O2C
29	FQ	203	PEB	CAB-CBB-CGB-O1B
29	HQ	201	PEB	CAC-CBC-CGC-O2C
29	HQ	203	PEB	CAB-CBB-CGB-O1B
29	JQ	201	PEB	CAC-CBC-CGC-O2C
29	JQ	203	PEB	CAB-CBB-CGB-O1B
29	LQ	202	PEB	CAB-CBB-CGB-O1B
29	MQ	402	PEB	CAC-CBC-CGC-O2C
29	eR	401	PEB	CAB-CBB-CGB-O1B
29	MR	201	PEB	CAC-CBC-CGC-O1C
29	OR	201	PEB	CAC-CBC-CGC-O1C
29	QR	201	PEB	CAC-CBC-CGC-O1C
29	UR	201	PEB	CAC-CBC-CGC-O1C
29	WR	201	PEB	CAC-CBC-CGC-O1C
30	A1	305	PUB	CAC-CBC-CGC-O2C
30	AK	305	PUB	CAC-CBC-CGC-O2C
29	O2	201	PEB	CAC-CBC-CGC-O2C
29	U2	201	PEB	CAC-CBC-CGC-O2C
29	B3	201	PEB	CAB-CBB-CGB-O1B
29	D3	201	PEB	CAB-CBB-CGB-O1B
29	F3	201	PEB	CAB-CBB-CGB-O1B
29	H3	201	PEB	CAB-CBB-CGB-O1B
29	J3	201	PEB	CAB-CBB-CGB-O1B
29	L3	201	PEB	CAB-CBB-CGB-O1B
29	KC	201	PEB	CAC-CBC-CGC-O2C
29	KE	201	PEB	CAC-CBC-CGC-O2C
29	RF	202	PEB	CAC-CBC-CGC-O2C
29	YF	203	PEB	CAC-CBC-CGC-O2C
29	gF	203	PEB	CAC-CBC-CGC-O2C
29	MG	401	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	RI	202	PEB	CAC-CBC-CGC-O2C
29	YI	203	PEB	CAC-CBC-CGC-O2C
29	gI	203	PEB	CAC-CBC-CGC-O2C
29	BO	201	PEB	CAB-CBB-CGB-O1B
29	DO	201	PEB	CAB-CBB-CGB-O1B
29	FO	201	PEB	CAB-CBB-CGB-O1B
29	HO	201	PEB	CAB-CBB-CGB-O1B
29	JO	201	PEB	CAB-CBB-CGB-O1B
29	LO	201	PEB	CAB-CBB-CGB-O1B
29	MQ	403	PEB	CAC-CBC-CGC-O2C
29	MR	201	PEB	CAC-CBC-CGC-O2C
29	OR	201	PEB	CAC-CBC-CGC-O2C
29	QR	201	PEB	CAC-CBC-CGC-O2C
29	UR	201	PEB	CAC-CBC-CGC-O2C
29	WR	201	PEB	CAC-CBC-CGC-O2C
31	YP	1000	CYC	CAA-CBA-CGA-O1A
31	1P	1002	CYC	CAA-CBA-CGA-O1A
29	M4	203	PEB	CAC-CBC-CGC-O2C
29	AC	203	PEB	CAC-CBC-CGC-O2C
29	BC	202	PEB	CAC-CBC-CGC-O2C
29	HC	202	PEB	CAC-CBC-CGC-O2C
29	AE	203	PEB	CAC-CBC-CGC-O2C
29	BE	202	PEB	CAC-CBC-CGC-O2C
29	HE	202	PEB	CAC-CBC-CGC-O2C
29	wL	302	PEB	CAB-CBB-CGB-O1B
30	MG	402	PUB	CAC-CBC-CGC-O1C
30	MQ	404	PUB	CAC-CBC-CGC-O1C
31	WP	1001	CYC	CAA-CBA-CGA-O1A
31	yP	1001	CYC	CAA-CBA-CGA-O1A
29	A1	302	PEB	CAC-CBC-CGC-O2C
29	N2	203	PEB	CAC-CBC-CGC-O2C
29	P2	202	PEB	CAC-CBC-CGC-O2C
29	R2	203	PEB	CAC-CBC-CGC-O2C
29	T2	203	PEB	CAC-CBC-CGC-O2C
29	V2	203	PEB	CAC-CBC-CGC-O2C
29	X2	202	PEB	CAC-CBC-CGC-O2C
29	CC	202	PEB	CAB-CBB-CGB-O2B
29	FC	202	PEB	CAC-CBC-CGC-O2C
29	LC	202	PEB	CAC-CBC-CGC-O2C
29	CE	202	PEB	CAB-CBB-CGB-O2B
29	FE	202	PEB	CAC-CBC-CGC-O2C
29	LE	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	AJ	203	PEB	CAC-CBC-CGC-O2C
29	BJ	202	PEB	CAC-CBC-CGC-O2C
29	FJ	202	PEB	CAC-CBC-CGC-O2C
29	HJ	201	PEB	CAC-CBC-CGC-O2C
29	IJ	203	PEB	CAC-CBC-CGC-O2C
29	JJ	202	PEB	CAC-CBC-CGC-O2C
29	NJ	202	PEB	CAC-CBC-CGC-O2C
29	PJ	202	PEB	CAC-CBC-CGC-O2C
29	RJ	202	PEB	CAC-CBC-CGC-O2C
29	TJ	202	PEB	CAC-CBC-CGC-O2C
29	WJ	201	PEB	CAC-CBC-CGC-O2C
29	XJ	202	PEB	CAC-CBC-CGC-O2C
29	ZJ	202	PEB	CAC-CBC-CGC-O2C
29	bJ	202	PEB	CAC-CBC-CGC-O2C
29	dJ	202	PEB	CAC-CBC-CGC-O2C
29	fJ	202	PEB	CAC-CBC-CGC-O2C
29	hJ	202	PEB	CAC-CBC-CGC-O2C
29	jJ	202	PEB	CAC-CBC-CGC-O2C
29	nJ	202	PEB	CAC-CBC-CGC-O2C
29	rJ	202	PEB	CAC-CBC-CGC-O2C
29	sJ	203	PEB	CAC-CBC-CGC-O2C
29	uJ	201	PEB	CAC-CBC-CGC-O2C
29	wJ	302	PEB	CAB-CBB-CGB-O1B
29	xJ	302	PEB	CAB-CBB-CGB-O1B
29	AK	302	PEB	CAC-CBC-CGC-O2C
29	AL	203	PEB	CAC-CBC-CGC-O2C
29	BL	202	PEB	CAC-CBC-CGC-O2C
29	FL	202	PEB	CAC-CBC-CGC-O2C
29	HL	201	PEB	CAC-CBC-CGC-O2C
29	IL	203	PEB	CAC-CBC-CGC-O2C
29	JL	202	PEB	CAC-CBC-CGC-O2C
29	NL	202	PEB	CAC-CBC-CGC-O2C
29	PL	202	PEB	CAC-CBC-CGC-O2C
29	RL	202	PEB	CAC-CBC-CGC-O2C
29	TL	202	PEB	CAC-CBC-CGC-O2C
29	WL	201	PEB	CAC-CBC-CGC-O2C
29	XL	202	PEB	CAC-CBC-CGC-O2C
29	ZL	202	PEB	CAC-CBC-CGC-O2C
29	bL	202	PEB	CAC-CBC-CGC-O2C
29	dL	202	PEB	CAC-CBC-CGC-O2C
29	fL	202	PEB	CAC-CBC-CGC-O2C
29	hL	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	jL	202	PEB	CAC-CBC-CGC-O2C
29	nL	202	PEB	CAC-CBC-CGC-O2C
29	rL	202	PEB	CAC-CBC-CGC-O2C
29	sL	203	PEB	CAC-CBC-CGC-O2C
29	uL	201	PEB	CAC-CBC-CGC-O2C
29	xL	302	PEB	CAB-CBB-CGB-O1B
29	NR	203	PEB	CAC-CBC-CGC-O2C
29	PR	202	PEB	CAC-CBC-CGC-O2C
29	RR	203	PEB	CAC-CBC-CGC-O2C
29	TR	203	PEB	CAC-CBC-CGC-O2C
29	VR	203	PEB	CAC-CBC-CGC-O2C
29	XR	203	PEB	CAC-CBC-CGC-O2C
30	A1	305	PUB	C1C-C2C-CAC-CBC
30	AK	305	PUB	C1C-C2C-CAC-CBC
29	OF	202	PEB	C2A-C3A-CAA-CBA
29	QF	202	PEB	C2A-C3A-CAA-CBA
29	SF	202	PEB	C2A-C3A-CAA-CBA
29	UF	203	PEB	C2A-C3A-CAA-CBA
29	WF	202	PEB	C2A-C3A-CAA-CBA
29	ZF	202	PEB	C2A-C3A-CAA-CBA
29	bF	202	PEB	C2A-C3A-CAA-CBA
29	dF	203	PEB	C2A-C3A-CAA-CBA
29	fF	202	PEB	C2A-C3A-CAA-CBA
29	hF	202	PEB	C2A-C3A-CAA-CBA
29	jF	202	PEB	C2A-C3A-CAA-CBA
29	lF	202	PEB	C2A-C3A-CAA-CBA
29	OI	202	PEB	C2A-C3A-CAA-CBA
29	QI	202	PEB	C2A-C3A-CAA-CBA
29	SI	202	PEB	C2A-C3A-CAA-CBA
29	UI	203	PEB	C2A-C3A-CAA-CBA
29	WI	202	PEB	C2A-C3A-CAA-CBA
29	ZI	202	PEB	C2A-C3A-CAA-CBA
29	bI	202	PEB	C2A-C3A-CAA-CBA
29	dI	203	PEB	C2A-C3A-CAA-CBA
29	fI	202	PEB	C2A-C3A-CAA-CBA
29	hI	202	PEB	C2A-C3A-CAA-CBA
29	jI	202	PEB	C2A-C3A-CAA-CBA
29	lI	202	PEB	C2A-C3A-CAA-CBA
31	C7	1001	CYC	C2C-C3C-CAC-CBC
31	E7	1001	CYC	C2C-C3C-CAC-CBC
31	G7	1001	CYC	C2C-C3C-CAC-CBC
31	I7	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
31	K7	1001	CYC	C2C-C3C-CAC-CBC
31	M7	1001	CYC	C2C-C3C-CAC-CBC
31	C9	1001	CYC	C2C-C3C-CAC-CBC
31	E9	1001	CYC	C2C-C3C-CAC-CBC
31	G9	1001	CYC	C2C-C3C-CAC-CBC
31	I9	1001	CYC	C2C-C3C-CAC-CBC
31	K9	1001	CYC	C2C-C3C-CAC-CBC
31	M9	1001	CYC	C2C-C3C-CAC-CBC
29	O1	201	PEB	CAB-CBB-CGB-O2B
29	Q1	201	PEB	CAB-CBB-CGB-O2B
29	S1	201	PEB	CAB-CBB-CGB-O2B
29	U1	202	PEB	CAB-CBB-CGB-O2B
29	W1	201	PEB	CAB-CBB-CGB-O2B
29	Z1	202	PEB	CAB-CBB-CGB-O2B
29	b1	201	PEB	CAB-CBB-CGB-O2B
29	d1	201	PEB	CAB-CBB-CGB-O2B
29	f1	201	PEB	CAB-CBB-CGB-O2B
29	h1	201	PEB	CAB-CBB-CGB-O2B
29	j1	201	PEB	CAB-CBB-CGB-O2B
29	l1	201	PEB	CAB-CBB-CGB-O2B
29	M2	202	PEB	CAB-CBB-CGB-O1B
29	O2	202	PEB	CAB-CBB-CGB-O1B
29	Q2	202	PEB	CAB-CBB-CGB-O1B
29	U2	202	PEB	CAB-CBB-CGB-O1B
29	W2	202	PEB	CAB-CBB-CGB-O1B
29	A3	202	PEB	CAC-CBC-CGC-O1C
29	C3	202	PEB	CAC-CBC-CGC-O1C
29	E3	202	PEB	CAC-CBC-CGC-O1C
29	G3	202	PEB	CAC-CBC-CGC-O1C
29	I3	202	PEB	CAC-CBC-CGC-O1C
29	K3	202	PEB	CAC-CBC-CGC-O1C
29	B4	201	PEB	CAB-CBB-CGB-O2B
29	D4	201	PEB	CAB-CBB-CGB-O2B
29	F4	201	PEB	CAB-CBB-CGB-O2B
29	H4	201	PEB	CAB-CBB-CGB-O2B
29	J4	201	PEB	CAB-CBB-CGB-O2B
29	L4	201	PEB	CAB-CBB-CGB-O2B
29	I5	201	PEB	CAB-CBB-CGB-O2B
29	K5	201	PEB	CAB-CBB-CGB-O2B
29	A5	201	PEB	CAB-CBB-CGB-O2B
29	C5	201	PEB	CAB-CBB-CGB-O2B
29	I8	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	K8	201	PEB	CAB-CBB-CGB-O2B
29	A8	201	PEB	CAB-CBB-CGB-O2B
29	C8	201	PEB	CAB-CBB-CGB-O2B
29	BA	203	PEB	CAB-CBB-CGB-O2B
29	DA	203	PEB	CAB-CBB-CGB-O2B
29	HA	203	PEB	CAB-CBB-CGB-O2B
29	JA	203	PEB	CAB-CBB-CGB-O2B
29	AB	302	PEB	CAC-CBC-CGC-O2C
29	SB	202	PEB	CAB-CBB-CGB-O2B
29	IC	202	PEB	CAB-CBB-CGB-O2B
29	BD	201	PEB	CAB-CBB-CGB-O2B
29	DD	201	PEB	CAB-CBB-CGB-O2B
29	FD	201	PEB	CAB-CBB-CGB-O2B
29	HD	201	PEB	CAB-CBB-CGB-O2B
29	JD	201	PEB	CAB-CBB-CGB-O2B
29	LD	201	PEB	CAB-CBB-CGB-O2B
29	IE	202	PEB	CAB-CBB-CGB-O2B
29	TF	201	PEB	CAC-CBC-CGC-O2C
29	AG	202	PEB	CAB-CBB-CGB-O2B
29	EG	202	PEB	CAB-CBB-CGB-O2B
29	GG	202	PEB	CAB-CBB-CGB-O2B
29	IG	202	PEB	CAB-CBB-CGB-O2B
29	IJ	202	PEB	CAC-CBC-CGC-O2C
29	pJ	202	PEB	CAC-CBC-CGC-O2C
29	OK	201	PEB	CAB-CBB-CGB-O2B
29	QK	201	PEB	CAB-CBB-CGB-O2B
29	SK	201	PEB	CAB-CBB-CGB-O2B
29	UK	202	PEB	CAB-CBB-CGB-O2B
29	WK	201	PEB	CAB-CBB-CGB-O2B
29	ZK	202	PEB	CAB-CBB-CGB-O2B
29	bK	201	PEB	CAB-CBB-CGB-O2B
29	dK	201	PEB	CAB-CBB-CGB-O2B
29	fK	201	PEB	CAB-CBB-CGB-O2B
29	hK	201	PEB	CAB-CBB-CGB-O2B
29	jK	201	PEB	CAB-CBB-CGB-O2B
29	lK	201	PEB	CAB-CBB-CGB-O2B
29	lL	202	PEB	CAC-CBC-CGC-O2C
29	pL	202	PEB	CAC-CBC-CGC-O2C
29	AM	302	PEB	CAC-CBC-CGC-O2C
29	SM	202	PEB	CAB-CBB-CGB-O2B
29	BN	203	PEB	CAB-CBB-CGB-O2B
29	DN	203	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	HN	203	PEB	CAB-CBB-CGB-O2B
29	JN	203	PEB	CAB-CBB-CGB-O2B
29	AO	202	PEB	CAC-CBC-CGC-O1C
29	CO	202	PEB	CAC-CBC-CGC-O1C
29	EO	202	PEB	CAC-CBC-CGC-O1C
29	GO	202	PEB	CAC-CBC-CGC-O1C
29	IO	202	PEB	CAC-CBC-CGC-O1C
29	KO	202	PEB	CAC-CBC-CGC-O1C
29	AQ	202	PEB	CAB-CBB-CGB-O2B
29	EQ	202	PEB	CAB-CBB-CGB-O2B
29	GQ	202	PEB	CAB-CBB-CGB-O2B
29	IQ	202	PEB	CAB-CBB-CGB-O2B
29	UR	202	PEB	CAB-CBB-CGB-O1B
31	AP	1001	CYC	CAA-CBA-CGA-O2A
31	CP	1001	CYC	CAA-CBA-CGA-O2A
31	EP	1001	CYC	CAA-CBA-CGA-O2A
31	GP	1001	CYC	CAA-CBA-CGA-O2A
31	JP	1001	CYC	CAA-CBA-CGA-O2A
31	KP	1001	CYC	CAA-CBA-CGA-O2A
31	NP	1001	CYC	CAA-CBA-CGA-O2A
31	PP	1001	CYC	CAA-CBA-CGA-O2A
31	RP	1001	CYC	CAA-CBA-CGA-O2A
31	TP	1001	CYC	CAA-CBA-CGA-O2A
31	cP	1001	CYC	CAA-CBA-CGA-O2A
31	eP	1001	CYC	CAA-CBA-CGA-O2A
31	gP	1001	CYC	CAA-CBA-CGA-O2A
31	iP	1001	CYC	CAA-CBA-CGA-O2A
31	lP	1001	CYC	CAA-CBA-CGA-O2A
31	pP	1001	CYC	CAA-CBA-CGA-O2A
31	rP	1001	CYC	CAA-CBA-CGA-O2A
31	tP	1001	CYC	CAA-CBA-CGA-O2A
29	A1	303	PEB	CAB-CBB-CGB-O2B
29	R1	203	PEB	CAB-CBB-CGB-O2B
29	Y1	202	PEB	CAB-CBB-CGB-O2B
29	a1	203	PEB	CAB-CBB-CGB-O2B
29	c1	203	PEB	CAB-CBB-CGB-O2B
29	i1	203	PEB	CAB-CBB-CGB-O2B
29	S2	202	PEB	CAB-CBB-CGB-O1B
29	M3	203	PEB	CAC-CBC-CGC-O1C
29	N3	203	PEB	CAC-CBC-CGC-O1C
29	N3	203	PEB	CAB-CBB-CGB-O2B
29	A7	301	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	A9	301	PEB	CAB-CBB-CGB-O1B
29	GB	202	PEB	CAB-CBB-CGB-O2B
29	IB	202	PEB	CAB-CBB-CGB-O2B
29	OB	202	PEB	CAB-CBB-CGB-O2B
29	QB	204	PEB	CAB-CBB-CGB-O2B
29	dB	202	PEB	CAB-CBB-CGB-O2B
29	fB	202	PEB	CAB-CBB-CGB-O2B
29	hB	202	PEB	CAB-CBB-CGB-O2B
29	lB	202	PEB	CAB-CBB-CGB-O2B
29	AC	202	PEB	CAC-CBC-CGC-O2C
29	AC	202	PEB	CAB-CBB-CGB-O2B
29	CC	202	PEB	CAC-CBC-CGC-O2C
29	EC	202	PEB	CAC-CBC-CGC-O2C
29	EC	202	PEB	CAB-CBB-CGB-O2B
29	GC	202	PEB	CAC-CBC-CGC-O2C
29	IC	202	PEB	CAC-CBC-CGC-O2C
29	KC	203	PEB	CAC-CBC-CGC-O2C
29	KC	203	PEB	CAB-CBB-CGB-O2B
29	AE	202	PEB	CAC-CBC-CGC-O2C
29	AE	202	PEB	CAB-CBB-CGB-O2B
29	CE	202	PEB	CAC-CBC-CGC-O2C
29	EE	202	PEB	CAC-CBC-CGC-O2C
29	EE	202	PEB	CAB-CBB-CGB-O2B
29	GE	202	PEB	CAC-CBC-CGC-O2C
29	IE	202	PEB	CAC-CBC-CGC-O2C
29	KE	203	PEB	CAC-CBC-CGC-O2C
29	KE	203	PEB	CAB-CBB-CGB-O2B
29	CG	202	PEB	CAB-CBB-CGB-O2B
29	KG	202	PEB	CAB-CBB-CGB-O2B
29	AK	303	PEB	CAB-CBB-CGB-O2B
29	RK	203	PEB	CAB-CBB-CGB-O2B
29	YK	202	PEB	CAB-CBB-CGB-O2B
29	aK	203	PEB	CAB-CBB-CGB-O2B
29	cK	203	PEB	CAB-CBB-CGB-O2B
29	iK	203	PEB	CAB-CBB-CGB-O2B
29	GM	202	PEB	CAB-CBB-CGB-O2B
29	IM	202	PEB	CAB-CBB-CGB-O2B
29	OM	202	PEB	CAB-CBB-CGB-O2B
29	QM	204	PEB	CAB-CBB-CGB-O2B
29	dM	202	PEB	CAB-CBB-CGB-O2B
29	fM	202	PEB	CAB-CBB-CGB-O2B
29	hM	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	IM	202	PEB	CAB-CBB-CGB-O2B
29	MO	203	PEB	CAC-CBC-CGC-O1C
29	NO	203	PEB	CAC-CBC-CGC-O1C
29	CQ	202	PEB	CAB-CBB-CGB-O2B
29	KQ	202	PEB	CAB-CBB-CGB-O2B
30	MA	402	PUB	CAB-CBB-CGB-O2B
30	MN	402	PUB	CAB-CBB-CGB-O2B
31	WP	1001	CYC	CAA-CBA-CGA-O2A
31	mP	1001	CYC	CAA-CBA-CGA-O2A
31	vP	1001	CYC	CAA-CBA-CGA-O2A
29	V1	203	PEB	CAB-CBB-CGB-O2B
29	e1	203	PEB	CAB-CBB-CGB-O2B
29	k1	203	PEB	CAB-CBB-CGB-O2B
29	m1	202	PEB	CAB-CBB-CGB-O2B
29	M3	203	PEB	CAB-CBB-CGB-O2B
29	C4	201	PEB	CAB-CBB-CGB-O1B
29	E4	201	PEB	CAB-CBB-CGB-O1B
29	G4	201	PEB	CAB-CBB-CGB-O1B
29	I4	201	PEB	CAB-CBB-CGB-O1B
29	K4	201	PEB	CAB-CBB-CGB-O1B
29	M4	201	PEB	CAB-CBB-CGB-O1B
29	O7	201	PEB	CAC-CBC-CGC-O1C
29	O7	201	PEB	CAB-CBB-CGB-O1B
29	P7	202	PEB	CAB-CBB-CGB-O1B
29	Q7	201	PEB	CAC-CBC-CGC-O1C
29	R7	202	PEB	CAB-CBB-CGB-O1B
29	S7	201	PEB	CAC-CBC-CGC-O1C
29	S7	201	PEB	CAB-CBB-CGB-O1B
29	T7	202	PEB	CAB-CBB-CGB-O1B
29	U7	201	PEB	CAC-CBC-CGC-O1C
29	V7	202	PEB	CAB-CBB-CGB-O1B
29	W7	201	PEB	CAC-CBC-CGC-O1C
29	Y7	202	PEB	CAB-CBB-CGB-O1B
29	Z7	201	PEB	CAC-CBC-CGC-O1C
29	a7	202	PEB	CAB-CBB-CGB-O1B
29	b7	201	PEB	CAC-CBC-CGC-O1C
29	c7	202	PEB	CAB-CBB-CGB-O1B
29	d7	201	PEB	CAC-CBC-CGC-O1C
29	e7	202	PEB	CAB-CBB-CGB-O1B
29	f7	201	PEB	CAC-CBC-CGC-O1C
29	g7	202	PEB	CAB-CBB-CGB-O1B
29	h7	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	i7	202	PEB	CAB-CBB-CGB-O1B
29	j7	201	PEB	CAC-CBC-CGC-O1C
29	j7	201	PEB	CAB-CBB-CGB-O1B
29	k7	202	PEB	CAB-CBB-CGB-O1B
29	l7	201	PEB	CAC-CBC-CGC-O1C
29	l7	201	PEB	CAB-CBB-CGB-O1B
29	m7	202	PEB	CAB-CBB-CGB-O1B
29	O9	201	PEB	CAC-CBC-CGC-O1C
29	O9	201	PEB	CAB-CBB-CGB-O1B
29	P9	202	PEB	CAB-CBB-CGB-O1B
29	Q9	201	PEB	CAC-CBC-CGC-O1C
29	R9	202	PEB	CAB-CBB-CGB-O1B
29	S9	201	PEB	CAC-CBC-CGC-O1C
29	S9	201	PEB	CAB-CBB-CGB-O1B
29	T9	202	PEB	CAB-CBB-CGB-O1B
29	U9	201	PEB	CAC-CBC-CGC-O1C
29	V9	202	PEB	CAB-CBB-CGB-O1B
29	W9	201	PEB	CAC-CBC-CGC-O1C
29	Y9	202	PEB	CAB-CBB-CGB-O1B
29	Z9	201	PEB	CAC-CBC-CGC-O1C
29	a9	202	PEB	CAB-CBB-CGB-O1B
29	b9	201	PEB	CAC-CBC-CGC-O1C
29	c9	202	PEB	CAB-CBB-CGB-O1B
29	d9	201	PEB	CAC-CBC-CGC-O1C
29	e9	202	PEB	CAB-CBB-CGB-O1B
29	f9	201	PEB	CAC-CBC-CGC-O1C
29	g9	202	PEB	CAB-CBB-CGB-O1B
29	h9	201	PEB	CAC-CBC-CGC-O1C
29	i9	202	PEB	CAB-CBB-CGB-O1B
29	j9	201	PEB	CAC-CBC-CGC-O1C
29	j9	201	PEB	CAB-CBB-CGB-O1B
29	k9	202	PEB	CAB-CBB-CGB-O1B
29	l9	201	PEB	CAC-CBC-CGC-O1C
29	l9	201	PEB	CAB-CBB-CGB-O1B
29	m9	202	PEB	CAB-CBB-CGB-O1B
29	FA	203	PEB	CAB-CBB-CGB-O2B
29	LA	203	PEB	CAB-CBB-CGB-O2B
29	CB	202	PEB	CAB-CBB-CGB-O2B
29	EB	202	PEB	CAB-CBB-CGB-O2B
29	KB	202	PEB	CAB-CBB-CGB-O2B
29	MB	202	PEB	CAB-CBB-CGB-O2B
29	UB	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	WB	202	PEB	CAB-CBB-CGB-O2B
29	YB	203	PEB	CAB-CBB-CGB-O2B
29	aB	202	PEB	CAB-CBB-CGB-O2B
29	jB	202	PEB	CAB-CBB-CGB-O2B
29	GC	202	PEB	CAB-CBB-CGB-O2B
29	dD	401	PEB	CAB-CBB-CGB-O1B
29	CD	201	PEB	CAB-CBB-CGB-O1B
29	GD	201	PEB	CAB-CBB-CGB-O1B
29	ID	201	PEB	CAB-CBB-CGB-O1B
29	KD	201	PEB	CAB-CBB-CGB-O1B
29	MD	201	PEB	CAB-CBB-CGB-O1B
29	GE	202	PEB	CAB-CBB-CGB-O2B
29	PF	201	PEB	CAB-CBB-CGB-O1B
29	RF	201	PEB	CAB-CBB-CGB-O1B
29	VF	201	PEB	CAB-CBB-CGB-O1B
29	YF	201	PEB	CAB-CBB-CGB-O1B
29	aF	201	PEB	CAB-CBB-CGB-O1B
29	cF	201	PEB	CAB-CBB-CGB-O1B
29	eF	201	PEB	CAB-CBB-CGB-O1B
29	gF	201	PEB	CAB-CBB-CGB-O1B
29	iF	201	PEB	CAB-CBB-CGB-O1B
29	kF	201	PEB	CAB-CBB-CGB-O1B
29	mF	201	PEB	CAB-CBB-CGB-O1B
29	CG	202	PEB	CAC-CBC-CGC-O2C
29	PI	201	PEB	CAB-CBB-CGB-O1B
29	RI	201	PEB	CAB-CBB-CGB-O1B
29	TI	201	PEB	CAB-CBB-CGB-O1B
29	VI	201	PEB	CAB-CBB-CGB-O1B
29	YI	201	PEB	CAB-CBB-CGB-O1B
29	aI	201	PEB	CAB-CBB-CGB-O1B
29	cI	201	PEB	CAB-CBB-CGB-O1B
29	eI	201	PEB	CAB-CBB-CGB-O1B
29	gI	201	PEB	CAB-CBB-CGB-O1B
29	iI	201	PEB	CAB-CBB-CGB-O1B
29	kI	201	PEB	CAB-CBB-CGB-O1B
29	mI	201	PEB	CAB-CBB-CGB-O1B
29	VK	203	PEB	CAB-CBB-CGB-O2B
29	eK	203	PEB	CAB-CBB-CGB-O2B
29	kK	203	PEB	CAB-CBB-CGB-O2B
29	mK	202	PEB	CAB-CBB-CGB-O2B
29	CM	202	PEB	CAB-CBB-CGB-O2B
29	EM	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	KM	202	PEB	CAB-CBB-CGB-O2B
29	MM	202	PEB	CAB-CBB-CGB-O2B
29	WM	202	PEB	CAB-CBB-CGB-O2B
29	YM	203	PEB	CAB-CBB-CGB-O2B
29	aM	202	PEB	CAB-CBB-CGB-O2B
29	jM	202	PEB	CAB-CBB-CGB-O2B
29	FN	203	PEB	CAB-CBB-CGB-O2B
29	LN	203	PEB	CAB-CBB-CGB-O2B
29	MO	203	PEB	CAB-CBB-CGB-O2B
29	NO	203	PEB	CAB-CBB-CGB-O2B
29	CQ	202	PEB	CAC-CBC-CGC-O2C
29	MQ	401	PEB	CAB-CBB-CGB-O2B
29	QR	202	PEB	CAB-CBB-CGB-O1B
29	SR	202	PEB	CAB-CBB-CGB-O1B
29	WR	202	PEB	CAB-CBB-CGB-O1B
31	AP	1001	CYC	CAA-CBA-CGA-O1A
31	EP	1001	CYC	CAA-CBA-CGA-O1A
31	GP	1001	CYC	CAA-CBA-CGA-O1A
31	JP	1001	CYC	CAA-CBA-CGA-O1A
31	KP	1001	CYC	CAA-CBA-CGA-O1A
31	PP	1001	CYC	CAA-CBA-CGA-O1A
31	TP	1001	CYC	CAA-CBA-CGA-O1A
31	WP	1001	CYC	CAD-CBD-CGD-O2D
31	cP	1001	CYC	CAA-CBA-CGA-O1A
31	eP	1001	CYC	CAA-CBA-CGA-O1A
31	mP	1001	CYC	CAA-CBA-CGA-O1A
31	pP	1001	CYC	CAA-CBA-CGA-O1A
31	yP	1001	CYC	CAA-CBA-CGA-O2A
31	yP	1001	CYC	CAD-CBD-CGD-O2D
29	P1	203	PEB	CAB-CBB-CGB-O2B
29	T1	202	PEB	CAB-CBB-CGB-O2B
29	g1	203	PEB	CAB-CBB-CGB-O2B
29	Q7	201	PEB	CAB-CBB-CGB-O1B
29	U7	201	PEB	CAB-CBB-CGB-O1B
29	W7	201	PEB	CAB-CBB-CGB-O1B
29	Z7	201	PEB	CAB-CBB-CGB-O1B
29	b7	201	PEB	CAB-CBB-CGB-O1B
29	d7	201	PEB	CAB-CBB-CGB-O1B
29	f7	201	PEB	CAB-CBB-CGB-O1B
29	h7	201	PEB	CAB-CBB-CGB-O1B
29	Q9	201	PEB	CAB-CBB-CGB-O1B
29	U9	201	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	W9	201	PEB	CAB-CBB-CGB-O1B
29	Z9	201	PEB	CAB-CBB-CGB-O1B
29	b9	201	PEB	CAB-CBB-CGB-O1B
29	d9	201	PEB	CAB-CBB-CGB-O1B
29	f9	201	PEB	CAB-CBB-CGB-O1B
29	h9	201	PEB	CAB-CBB-CGB-O1B
29	AG	202	PEB	CAC-CBC-CGC-O2C
29	EG	202	PEB	CAC-CBC-CGC-O2C
29	GG	202	PEB	CAC-CBC-CGC-O2C
29	KG	202	PEB	CAC-CBC-CGC-O2C
29	MG	404	PEB	CAC-CBC-CGC-O2C
29	BJ	201	PEB	CAB-CBB-CGB-O2B
29	DJ	201	PEB	CAB-CBB-CGB-O2B
29	FJ	201	PEB	CAB-CBB-CGB-O2B
29	JJ	201	PEB	CAB-CBB-CGB-O2B
29	LJ	201	PEB	CAB-CBB-CGB-O2B
29	NJ	201	PEB	CAB-CBB-CGB-O2B
29	RJ	201	PEB	CAB-CBB-CGB-O2B
29	TJ	201	PEB	CAB-CBB-CGB-O2B
29	VJ	201	PEB	CAB-CBB-CGB-O2B
29	XJ	201	PEB	CAB-CBB-CGB-O2B
29	ZJ	201	PEB	CAB-CBB-CGB-O2B
29	bJ	201	PEB	CAB-CBB-CGB-O2B
29	dJ	201	PEB	CAB-CBB-CGB-O2B
29	fJ	201	PEB	CAB-CBB-CGB-O2B
29	hJ	201	PEB	CAB-CBB-CGB-O2B
29	jJ	201	PEB	CAB-CBB-CGB-O2B
29	lJ	201	PEB	CAB-CBB-CGB-O2B
29	nJ	201	PEB	CAB-CBB-CGB-O2B
29	pJ	201	PEB	CAB-CBB-CGB-O2B
29	rJ	201	PEB	CAB-CBB-CGB-O2B
29	tJ	201	PEB	CAB-CBB-CGB-O2B
29	vJ	201	PEB	CAB-CBB-CGB-O2B
29	wJ	302	PEB	CAB-CBB-CGB-O2B
29	xJ	302	PEB	CAB-CBB-CGB-O2B
29	PK	203	PEB	CAB-CBB-CGB-O2B
29	TK	202	PEB	CAB-CBB-CGB-O2B
29	gK	203	PEB	CAB-CBB-CGB-O2B
29	BL	201	PEB	CAB-CBB-CGB-O2B
29	DL	201	PEB	CAB-CBB-CGB-O2B
29	FL	201	PEB	CAB-CBB-CGB-O2B
29	JL	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	LL	201	PEB	CAB-CBB-CGB-O2B
29	NL	201	PEB	CAB-CBB-CGB-O2B
29	RL	201	PEB	CAB-CBB-CGB-O2B
29	TL	201	PEB	CAB-CBB-CGB-O2B
29	VL	201	PEB	CAB-CBB-CGB-O2B
29	XL	201	PEB	CAB-CBB-CGB-O2B
29	ZL	201	PEB	CAB-CBB-CGB-O2B
29	bL	201	PEB	CAB-CBB-CGB-O2B
29	dL	201	PEB	CAB-CBB-CGB-O2B
29	fL	201	PEB	CAB-CBB-CGB-O2B
29	hL	201	PEB	CAB-CBB-CGB-O2B
29	jL	201	PEB	CAB-CBB-CGB-O2B
29	lL	201	PEB	CAB-CBB-CGB-O2B
29	nL	201	PEB	CAB-CBB-CGB-O2B
29	pL	201	PEB	CAB-CBB-CGB-O2B
29	rL	201	PEB	CAB-CBB-CGB-O2B
29	tL	201	PEB	CAB-CBB-CGB-O2B
29	vL	201	PEB	CAB-CBB-CGB-O2B
29	zL	501	PEB	CAB-CBB-CGB-O1B
29	AQ	202	PEB	CAC-CBC-CGC-O2C
29	EQ	202	PEB	CAC-CBC-CGC-O2C
29	GQ	202	PEB	CAC-CBC-CGC-O2C
29	KQ	202	PEB	CAC-CBC-CGC-O2C
31	CP	1001	CYC	CAA-CBA-CGA-O1A
29	A1	301	PEB	C4A-C3A-CAA-CBA
29	A7	305	PEB	C4A-C3A-CAA-CBA
29	A9	305	PEB	C4A-C3A-CAA-CBA
29	AK	301	PEB	C4A-C3A-CAA-CBA
29	BB	301	PEB	C3B-CAB-CBB-CGB
29	BM	301	PEB	C3B-CAB-CBB-CGB
29	IG	202	PEB	CAC-CBC-CGC-O2C
29	PJ	201	PEB	CAB-CBB-CGB-O2B
29	PL	201	PEB	CAB-CBB-CGB-O2B
29	IQ	202	PEB	CAC-CBC-CGC-O2C
29	MQ	406	PEB	CAC-CBC-CGC-O2C
30	A7	302	PUB	CAB-CBB-CGB-O1B
30	A9	302	PUB	CAB-CBB-CGB-O1B
31	D7	1001	CYC	CAA-CBA-CGA-O2A
31	F7	1001	CYC	CAA-CBA-CGA-O2A
31	H7	1001	CYC	CAA-CBA-CGA-O2A
31	J7	1001	CYC	CAA-CBA-CGA-O2A
31	L7	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
31	N7	1001	CYC	CAA-CBA-CGA-O2A
31	D9	1001	CYC	CAA-CBA-CGA-O2A
31	F9	1001	CYC	CAA-CBA-CGA-O2A
31	H9	1001	CYC	CAA-CBA-CGA-O2A
31	J9	1001	CYC	CAA-CBA-CGA-O2A
31	L9	1001	CYC	CAA-CBA-CGA-O2A
31	N9	1001	CYC	CAA-CBA-CGA-O2A
31	NP	1001	CYC	CAA-CBA-CGA-O1A
31	RP	1001	CYC	CAA-CBA-CGA-O1A
31	YP	1000	CYC	CAA-CBA-CGA-O2A
31	gP	1001	CYC	CAA-CBA-CGA-O1A
31	iP	1001	CYC	CAA-CBA-CGA-O1A
31	lP	1001	CYC	CAA-CBA-CGA-O1A
31	rP	1001	CYC	CAA-CBA-CGA-O1A
31	tP	1001	CYC	CAA-CBA-CGA-O1A
31	vP	1001	CYC	CAA-CBA-CGA-O1A
29	A1	303	PEB	CAC-CBC-CGC-O2C
29	B5	202	PEB	CAC-CBC-CGC-O2C
29	F5	202	PEB	CAC-CBC-CGC-O2C
29	L5	202	PEB	CAC-CBC-CGC-O2C
29	O7	201	PEB	CAC-CBC-CGC-O2C
29	Q7	201	PEB	CAC-CBC-CGC-O2C
29	S7	201	PEB	CAC-CBC-CGC-O2C
29	U7	201	PEB	CAC-CBC-CGC-O2C
29	W7	201	PEB	CAC-CBC-CGC-O2C
29	Z7	201	PEB	CAC-CBC-CGC-O2C
29	b7	201	PEB	CAC-CBC-CGC-O2C
29	d7	201	PEB	CAC-CBC-CGC-O2C
29	f7	201	PEB	CAC-CBC-CGC-O2C
29	h7	201	PEB	CAC-CBC-CGC-O2C
29	l7	201	PEB	CAC-CBC-CGC-O2C
29	B8	202	PEB	CAC-CBC-CGC-O2C
29	F8	202	PEB	CAC-CBC-CGC-O2C
29	O9	201	PEB	CAC-CBC-CGC-O2C
29	Q9	201	PEB	CAC-CBC-CGC-O2C
29	S9	201	PEB	CAC-CBC-CGC-O2C
29	U9	201	PEB	CAC-CBC-CGC-O2C
29	W9	201	PEB	CAC-CBC-CGC-O2C
29	Z9	201	PEB	CAC-CBC-CGC-O2C
29	b9	201	PEB	CAC-CBC-CGC-O2C
29	d9	201	PEB	CAC-CBC-CGC-O2C
29	f9	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	h9	201	PEB	CAC-CBC-CGC-O2C
29	l9	201	PEB	CAC-CBC-CGC-O2C
29	BA	202	PEB	CAC-CBC-CGC-O2C
29	DA	202	PEB	CAC-CBC-CGC-O2C
29	FA	202	PEB	CAC-CBC-CGC-O2C
29	HA	202	PEB	CAC-CBC-CGC-O2C
29	JA	202	PEB	CAC-CBC-CGC-O2C
29	LA	202	PEB	CAC-CBC-CGC-O2C
29	DF	1002	PEB	CAB-CBB-CGB-O2B
29	FF	1002	PEB	CAB-CBB-CGB-O2B
29	HF	1002	PEB	CAB-CBB-CGB-O2B
29	JF	1002	PEB	CAB-CBB-CGB-O2B
29	LF	1002	PEB	CAB-CBB-CGB-O2B
29	NF	1002	PEB	CAB-CBB-CGB-O2B
29	DG	201	PEB	CAC-CBC-CGC-O1C
29	DI	1002	PEB	CAB-CBB-CGB-O2B
29	FI	1002	PEB	CAB-CBB-CGB-O2B
29	HI	1002	PEB	CAB-CBB-CGB-O2B
29	JI	1002	PEB	CAB-CBB-CGB-O2B
29	LI	1002	PEB	CAB-CBB-CGB-O2B
29	NI	1002	PEB	CAB-CBB-CGB-O2B
29	wJ	301	PEB	CAC-CBC-CGC-O1C
29	AK	303	PEB	CAC-CBC-CGC-O2C
29	wL	302	PEB	CAB-CBB-CGB-O2B
29	xL	301	PEB	CAC-CBC-CGC-O1C
29	xL	302	PEB	CAB-CBB-CGB-O2B
29	BN	202	PEB	CAC-CBC-CGC-O2C
29	DN	202	PEB	CAC-CBC-CGC-O2C
29	FN	202	PEB	CAC-CBC-CGC-O2C
29	HN	202	PEB	CAC-CBC-CGC-O2C
29	JN	202	PEB	CAC-CBC-CGC-O2C
29	LN	202	PEB	CAC-CBC-CGC-O2C
29	DQ	201	PEB	CAC-CBC-CGC-O1C
30	A7	303	PUB	CAB-CBB-CGB-O2B
30	A9	303	PUB	CAB-CBB-CGB-O2B
31	CF	1001	CYC	CAA-CBA-CGA-O2A
31	EF	1001	CYC	CAA-CBA-CGA-O2A
31	IF	1001	CYC	CAA-CBA-CGA-O2A
31	MF	1001	CYC	CAA-CBA-CGA-O2A
31	CI	1001	CYC	CAA-CBA-CGA-O2A
31	EI	1001	CYC	CAA-CBA-CGA-O2A
31	II	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
31	MI	1001	CYC	CAA-CBA-CGA-O2A
31	1P	1002	CYC	CAA-CBA-CGA-O2A
29	V2	203	PEB	CAC-CBC-CGC-O1C
29	C4	202	PEB	CAB-CBB-CGB-O2B
29	E4	202	PEB	CAB-CBB-CGB-O2B
29	j7	201	PEB	CAC-CBC-CGC-O2C
29	L8	202	PEB	CAC-CBC-CGC-O2C
29	j9	201	PEB	CAC-CBC-CGC-O2C
29	ED	201	PEB	CAB-CBB-CGB-O2B
29	DF	1002	PEB	CAB-CBB-CGB-O1B
29	FF	1002	PEB	CAB-CBB-CGB-O1B
29	JF	1002	PEB	CAB-CBB-CGB-O1B
29	JG	201	PEB	CAC-CBC-CGC-O1C
29	DI	1002	PEB	CAB-CBB-CGB-O1B
29	FI	1002	PEB	CAB-CBB-CGB-O1B
29	JI	1002	PEB	CAB-CBB-CGB-O1B
29	BJ	201	PEB	CAC-CBC-CGC-O2C
29	DJ	201	PEB	CAC-CBC-CGC-O2C
29	FJ	201	PEB	CAC-CBC-CGC-O2C
29	JJ	201	PEB	CAC-CBC-CGC-O2C
29	LJ	201	PEB	CAC-CBC-CGC-O2C
29	NJ	201	PEB	CAC-CBC-CGC-O2C
29	PJ	201	PEB	CAC-CBC-CGC-O2C
29	RJ	201	PEB	CAC-CBC-CGC-O2C
29	TJ	201	PEB	CAC-CBC-CGC-O2C
29	VJ	201	PEB	CAC-CBC-CGC-O2C
29	ZJ	201	PEB	CAC-CBC-CGC-O2C
29	bJ	201	PEB	CAC-CBC-CGC-O2C
29	dJ	201	PEB	CAC-CBC-CGC-O2C
29	fJ	201	PEB	CAC-CBC-CGC-O2C
29	hJ	201	PEB	CAC-CBC-CGC-O2C
29	jJ	201	PEB	CAC-CBC-CGC-O2C
29	lJ	201	PEB	CAC-CBC-CGC-O2C
29	nJ	201	PEB	CAC-CBC-CGC-O2C
29	pJ	201	PEB	CAC-CBC-CGC-O2C
29	rJ	201	PEB	CAC-CBC-CGC-O2C
29	tJ	201	PEB	CAC-CBC-CGC-O2C
29	vJ	201	PEB	CAC-CBC-CGC-O2C
29	xJ	301	PEB	CAC-CBC-CGC-O1C
29	BL	201	PEB	CAC-CBC-CGC-O2C
29	DL	201	PEB	CAC-CBC-CGC-O2C
29	FL	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	JL	201	PEB	CAC-CBC-CGC-O2C
29	LL	201	PEB	CAC-CBC-CGC-O2C
29	NL	201	PEB	CAC-CBC-CGC-O2C
29	PL	201	PEB	CAC-CBC-CGC-O2C
29	RL	201	PEB	CAC-CBC-CGC-O2C
29	TL	201	PEB	CAC-CBC-CGC-O2C
29	VL	201	PEB	CAC-CBC-CGC-O2C
29	ZL	201	PEB	CAC-CBC-CGC-O2C
29	bL	201	PEB	CAC-CBC-CGC-O2C
29	dL	201	PEB	CAC-CBC-CGC-O2C
29	fL	201	PEB	CAC-CBC-CGC-O2C
29	hL	201	PEB	CAC-CBC-CGC-O2C
29	jL	201	PEB	CAC-CBC-CGC-O2C
29	lL	201	PEB	CAC-CBC-CGC-O2C
29	nL	201	PEB	CAC-CBC-CGC-O2C
29	pL	201	PEB	CAC-CBC-CGC-O2C
29	rL	201	PEB	CAC-CBC-CGC-O2C
29	tL	201	PEB	CAC-CBC-CGC-O2C
29	vL	201	PEB	CAC-CBC-CGC-O2C
29	JQ	201	PEB	CAC-CBC-CGC-O1C
30	MA	403	PUB	CAB-CBB-CGB-O2B
30	AF	303	PUB	CAB-CBB-CGB-O2B
30	AI	303	PUB	CAB-CBB-CGB-O2B
30	MN	403	PUB	CAB-CBB-CGB-O2B
31	KF	1001	CYC	CAA-CBA-CGA-O2A
31	KI	1001	CYC	CAA-CBA-CGA-O2A
31	DP	1001	CYC	CAA-CBA-CGA-O1A
31	FP	1001	CYC	CAA-CBA-CGA-O1A
31	MP	1001	CYC	CAA-CBA-CGA-O1A
31	UP	1001	CYC	CAA-CBA-CGA-O1A
31	fP	1001	CYC	CAA-CBA-CGA-O1A
31	jP	1001	CYC	CAA-CBA-CGA-O1A
31	kP	1001	CYC	CAA-CBA-CGA-O1A
31	nP	1001	CYC	CAA-CBA-CGA-O1A
31	qP	1001	CYC	CAA-CBA-CGA-O1A
31	uP	1001	CYC	CAA-CBA-CGA-O1A
31	wP	1001	CYC	CAA-CBA-CGA-O1A
31	lP	1001	CYC	CAA-CBA-CGA-O1A
30	A7	302	PUB	C2D-C1D-CHC-C4C
30	A9	302	PUB	C2D-C1D-CHC-C4C
29	E4	201	PEB	CAC-CBC-CGC-O1C
29	G5	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	H5	202	PEB	CAC-CBC-CGC-O2C
29	G8	202	PEB	CAC-CBC-CGC-O2C
29	H8	202	PEB	CAC-CBC-CGC-O2C
29	DC	202	PEB	CAB-CBB-CGB-O2B
29	HC	203	PEB	CAB-CBB-CGB-O2B
29	LC	203	PEB	CAB-CBB-CGB-O2B
29	CD	202	PEB	CAB-CBB-CGB-O2B
29	GD	202	PEB	CAB-CBB-CGB-O2B
29	DE	202	PEB	CAB-CBB-CGB-O2B
29	HE	203	PEB	CAB-CBB-CGB-O2B
29	LE	203	PEB	CAB-CBB-CGB-O2B
29	HF	1002	PEB	CAB-CBB-CGB-O1B
29	LF	1002	PEB	CAB-CBB-CGB-O1B
29	NF	1002	PEB	CAB-CBB-CGB-O1B
29	OF	203	PEB	CAC-CBC-CGC-O1C
29	aF	202	PEB	CAC-CBC-CGC-O1C
29	eF	202	PEB	CAC-CBC-CGC-O1C
29	iF	202	PEB	CAC-CBC-CGC-O1C
29	BG	201	PEB	CAC-CBC-CGC-O1C
29	FG	201	PEB	CAC-CBC-CGC-O1C
29	HG	201	PEB	CAC-CBC-CGC-O1C
29	LG	201	PEB	CAC-CBC-CGC-O1C
29	MG	405	PEB	CAC-CBC-CGC-O1C
29	HI	1002	PEB	CAB-CBB-CGB-O1B
29	LI	1002	PEB	CAB-CBB-CGB-O1B
29	NI	1002	PEB	CAB-CBB-CGB-O1B
29	OI	203	PEB	CAC-CBC-CGC-O1C
29	aI	202	PEB	CAC-CBC-CGC-O1C
29	eI	202	PEB	CAC-CBC-CGC-O1C
29	iI	202	PEB	CAC-CBC-CGC-O1C
29	XJ	201	PEB	CAC-CBC-CGC-O2C
29	zJ	501	PEB	CAB-CBB-CGB-O1B
29	XL	201	PEB	CAC-CBC-CGC-O2C
29	wL	301	PEB	CAC-CBC-CGC-O1C
29	BQ	201	PEB	CAC-CBC-CGC-O1C
29	FQ	201	PEB	CAC-CBC-CGC-O1C
29	HQ	201	PEB	CAC-CBC-CGC-O1C
29	MQ	402	PEB	CAC-CBC-CGC-O1C
29	MQ	407	PEB	CAC-CBC-CGC-O1C
29	VR	203	PEB	CAC-CBC-CGC-O1C
30	A1	304	PUB	CAB-CBB-CGB-O1B
30	AF	303	PUB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
30	AI	303	PUB	CAB-CBB-CGB-O1B
30	AK	304	PUB	CAB-CBB-CGB-O1B
31	CF	1001	CYC	CAA-CBA-CGA-O1A
31	EF	1001	CYC	CAA-CBA-CGA-O1A
31	GF	1001	CYC	CAA-CBA-CGA-O2A
31	KF	1001	CYC	CAA-CBA-CGA-O1A
31	CI	1001	CYC	CAA-CBA-CGA-O1A
31	EI	1001	CYC	CAA-CBA-CGA-O1A
31	GI	1001	CYC	CAA-CBA-CGA-O2A
31	KI	1001	CYC	CAA-CBA-CGA-O1A
31	BP	1001	CYC	CAA-CBA-CGA-O1A
31	HP	1001	CYC	CAA-CBA-CGA-O1A
31	IP	1001	CYC	CAA-CBA-CGA-O1A
31	OP	1001	CYC	CAA-CBA-CGA-O1A
31	QP	1001	CYC	CAA-CBA-CGA-O1A
31	SP	1001	CYC	CAA-CBA-CGA-O1A
31	XP	1001	CYC	CAA-CBA-CGA-O1A
31	hP	1001	CYC	CAA-CBA-CGA-O1A
31	oP	1001	CYC	CAA-CBA-CGA-O1A
31	qP	1001	CYC	CAA-CBA-CGA-O2A
31	sP	1001	CYC	CAA-CBA-CGA-O1A
29	N2	203	PEB	CAC-CBC-CGC-O1C
29	P2	202	PEB	CAC-CBC-CGC-O1C
29	R2	203	PEB	CAC-CBC-CGC-O1C
29	T2	203	PEB	CAC-CBC-CGC-O1C
29	X2	202	PEB	CAC-CBC-CGC-O1C
29	M3	201	PEB	CAB-CBB-CGB-O2B
29	C4	201	PEB	CAC-CBC-CGC-O1C
29	G4	201	PEB	CAC-CBC-CGC-O1C
29	G4	202	PEB	CAB-CBB-CGB-O2B
29	I4	201	PEB	CAC-CBC-CGC-O1C
29	I4	202	PEB	CAB-CBB-CGB-O2B
29	K4	201	PEB	CAC-CBC-CGC-O1C
29	K4	202	PEB	CAB-CBB-CGB-O2B
29	M4	201	PEB	CAC-CBC-CGC-O1C
29	M4	202	PEB	CAB-CBB-CGB-O2B
29	F7	1002	PEB	CAC-CBC-CGC-O1C
29	H7	1002	PEB	CAC-CBC-CGC-O1C
29	J7	1002	PEB	CAC-CBC-CGC-O1C
29	L7	1002	PEB	CAC-CBC-CGC-O1C
29	N7	1002	PEB	CAC-CBC-CGC-O1C
29	O7	202	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	Q7	202	PEB	CAC-CBC-CGC-O1C
29	S7	202	PEB	CAC-CBC-CGC-O1C
29	U7	202	PEB	CAC-CBC-CGC-O1C
29	W7	202	PEB	CAC-CBC-CGC-O1C
29	Z7	202	PEB	CAC-CBC-CGC-O1C
29	b7	202	PEB	CAC-CBC-CGC-O1C
29	d7	202	PEB	CAC-CBC-CGC-O1C
29	f7	202	PEB	CAC-CBC-CGC-O1C
29	h7	202	PEB	CAC-CBC-CGC-O1C
29	j7	202	PEB	CAC-CBC-CGC-O1C
29	l7	202	PEB	CAC-CBC-CGC-O1C
29	F9	1002	PEB	CAC-CBC-CGC-O1C
29	H9	1002	PEB	CAC-CBC-CGC-O1C
29	J9	1002	PEB	CAC-CBC-CGC-O1C
29	N9	1002	PEB	CAC-CBC-CGC-O1C
29	O9	202	PEB	CAC-CBC-CGC-O1C
29	Q9	202	PEB	CAC-CBC-CGC-O1C
29	S9	202	PEB	CAC-CBC-CGC-O1C
29	U9	202	PEB	CAC-CBC-CGC-O1C
29	W9	202	PEB	CAC-CBC-CGC-O1C
29	Z9	202	PEB	CAC-CBC-CGC-O1C
29	b9	202	PEB	CAC-CBC-CGC-O1C
29	d9	202	PEB	CAC-CBC-CGC-O1C
29	f9	202	PEB	CAC-CBC-CGC-O1C
29	h9	202	PEB	CAC-CBC-CGC-O1C
29	j9	202	PEB	CAC-CBC-CGC-O1C
29	l9	202	PEB	CAC-CBC-CGC-O1C
29	BC	203	PEB	CAB-CBB-CGB-O2B
29	DC	202	PEB	CAB-CBB-CGB-O1B
29	FC	203	PEB	CAB-CBB-CGB-O1B
29	FC	203	PEB	CAB-CBB-CGB-O2B
29	HC	203	PEB	CAB-CBB-CGB-O1B
29	JC	202	PEB	CAB-CBB-CGB-O1B
29	JC	202	PEB	CAB-CBB-CGB-O2B
29	dD	401	PEB	CAC-CBC-CGC-O1C
29	CD	201	PEB	CAC-CBC-CGC-O1C
29	ID	201	PEB	CAC-CBC-CGC-O1C
29	ID	202	PEB	CAB-CBB-CGB-O2B
29	KD	201	PEB	CAC-CBC-CGC-O1C
29	KD	202	PEB	CAB-CBB-CGB-O2B
29	MD	201	PEB	CAC-CBC-CGC-O1C
29	MD	202	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	BE	203	PEB	CAB-CBB-CGB-O2B
29	DE	202	PEB	CAB-CBB-CGB-O1B
29	FE	203	PEB	CAB-CBB-CGB-O1B
29	FE	203	PEB	CAB-CBB-CGB-O2B
29	HE	203	PEB	CAB-CBB-CGB-O1B
29	JE	202	PEB	CAB-CBB-CGB-O1B
29	JE	202	PEB	CAB-CBB-CGB-O2B
29	PF	202	PEB	CAC-CBC-CGC-O1C
29	UF	201	PEB	CAC-CBC-CGC-O1C
29	VF	202	PEB	CAC-CBC-CGC-O1C
29	YF	202	PEB	CAC-CBC-CGC-O1C
29	dF	201	PEB	CAC-CBC-CGC-O1C
29	gF	202	PEB	CAC-CBC-CGC-O1C
29	kF	202	PEB	CAC-CBC-CGC-O1C
29	mF	202	PEB	CAC-CBC-CGC-O1C
29	PI	202	PEB	CAC-CBC-CGC-O1C
29	UI	201	PEB	CAC-CBC-CGC-O1C
29	VI	202	PEB	CAC-CBC-CGC-O1C
29	YI	202	PEB	CAC-CBC-CGC-O1C
29	dI	201	PEB	CAC-CBC-CGC-O1C
29	gI	202	PEB	CAC-CBC-CGC-O1C
29	kI	202	PEB	CAC-CBC-CGC-O1C
29	mI	202	PEB	CAC-CBC-CGC-O1C
29	MO	201	PEB	CAB-CBB-CGB-O2B
29	NR	203	PEB	CAC-CBC-CGC-O1C
29	PR	202	PEB	CAC-CBC-CGC-O1C
29	RR	203	PEB	CAC-CBC-CGC-O1C
29	TR	203	PEB	CAC-CBC-CGC-O1C
29	XR	203	PEB	CAC-CBC-CGC-O1C
30	AF	302	PUB	CAB-CBB-CGB-O2B
30	MG	402	PUB	CAB-CBB-CGB-O2B
30	AI	302	PUB	CAB-CBB-CGB-O2B
30	MQ	404	PUB	CAB-CBB-CGB-O2B
31	GF	1001	CYC	CAA-CBA-CGA-O1A
31	IF	1001	CYC	CAA-CBA-CGA-O1A
31	MF	1001	CYC	CAA-CBA-CGA-O1A
31	GI	1001	CYC	CAA-CBA-CGA-O1A
31	II	1001	CYC	CAA-CBA-CGA-O1A
31	MI	1001	CYC	CAA-CBA-CGA-O1A
31	DP	1001	CYC	CAA-CBA-CGA-O2A
31	FP	1001	CYC	CAA-CBA-CGA-O2A
31	BP	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
31	HP	1001	CYC	CAA-CBA-CGA-O2A
31	IP	1001	CYC	CAA-CBA-CGA-O2A
31	MP	1001	CYC	CAA-CBA-CGA-O2A
31	OP	1001	CYC	CAA-CBA-CGA-O2A
31	QP	1001	CYC	CAA-CBA-CGA-O2A
31	SP	1001	CYC	CAA-CBA-CGA-O2A
31	UP	1001	CYC	CAA-CBA-CGA-O2A
31	XP	1001	CYC	CAA-CBA-CGA-O2A
31	fP	1001	CYC	CAA-CBA-CGA-O2A
31	hP	1001	CYC	CAA-CBA-CGA-O2A
31	jP	1001	CYC	CAA-CBA-CGA-O2A
31	kP	1001	CYC	CAA-CBA-CGA-O2A
31	nP	1001	CYC	CAA-CBA-CGA-O2A
31	oP	1001	CYC	CAA-CBA-CGA-O2A
31	sP	1001	CYC	CAA-CBA-CGA-O2A
31	uP	1001	CYC	CAA-CBA-CGA-O2A
31	wP	1001	CYC	CAA-CBA-CGA-O2A
31	lP	1001	CYC	CAA-CBA-CGA-O2A
29	N3	201	PEB	CAB-CBB-CGB-O2B
29	K4	201	PEB	CAC-CBC-CGC-O2C
29	U7	202	PEB	CAC-CBC-CGC-O2C
29	L9	1002	PEB	CAC-CBC-CGC-O1C
29	U9	202	PEB	CAC-CBC-CGC-O2C
29	BC	203	PEB	CAB-CBB-CGB-O1B
29	LC	203	PEB	CAB-CBB-CGB-O1B
29	GD	201	PEB	CAC-CBC-CGC-O1C
29	KD	201	PEB	CAC-CBC-CGC-O2C
29	BE	203	PEB	CAB-CBB-CGB-O1B
29	LE	203	PEB	CAB-CBB-CGB-O1B
29	mF	202	PEB	CAC-CBC-CGC-O2C
29	mI	202	PEB	CAC-CBC-CGC-O2C
30	A1	304	PUB	CAB-CBB-CGB-O2B
30	AB	304	PUB	CAB-CBB-CGB-O1B
30	AK	304	PUB	CAB-CBB-CGB-O2B
30	AM	304	PUB	CAB-CBB-CGB-O1B
31	C1	1001	CYC	CAA-CBA-CGA-O2A
31	D1	1003	CYC	CAA-CBA-CGA-O2A
31	E1	1001	CYC	CAA-CBA-CGA-O2A
31	I1	1001	CYC	CAA-CBA-CGA-O2A
31	K1	1001	CYC	CAA-CBA-CGA-O2A
31	M1	1001	CYC	CAA-CBA-CGA-O2A
31	CK	1001	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
31	EK	1001	CYC	CAA-CBA-CGA-O2A
31	GK	1001	CYC	CAA-CBA-CGA-O2A
31	IK	1001	CYC	CAA-CBA-CGA-O2A
31	KK	1001	CYC	CAA-CBA-CGA-O2A
31	MK	1001	CYC	CAA-CBA-CGA-O2A
29	C4	201	PEB	CAC-CBC-CGC-O2C
29	E4	201	PEB	CAC-CBC-CGC-O2C
29	G4	201	PEB	CAC-CBC-CGC-O2C
29	I4	201	PEB	CAC-CBC-CGC-O2C
29	I4	203	PEB	CAC-CBC-CGC-O1C
29	M4	201	PEB	CAC-CBC-CGC-O2C
29	D7	1002	PEB	CAC-CBC-CGC-O1C
29	O7	202	PEB	CAC-CBC-CGC-O2C
29	Q7	202	PEB	CAC-CBC-CGC-O2C
29	S7	202	PEB	CAC-CBC-CGC-O2C
29	W7	202	PEB	CAC-CBC-CGC-O2C
29	Z7	202	PEB	CAC-CBC-CGC-O2C
29	b7	202	PEB	CAC-CBC-CGC-O2C
29	d7	202	PEB	CAC-CBC-CGC-O2C
29	f7	202	PEB	CAC-CBC-CGC-O2C
29	h7	202	PEB	CAC-CBC-CGC-O2C
29	j7	202	PEB	CAC-CBC-CGC-O2C
29	l7	202	PEB	CAC-CBC-CGC-O2C
29	D9	1002	PEB	CAC-CBC-CGC-O1C
29	O9	202	PEB	CAC-CBC-CGC-O2C
29	Q9	202	PEB	CAC-CBC-CGC-O2C
29	S9	202	PEB	CAC-CBC-CGC-O2C
29	W9	202	PEB	CAC-CBC-CGC-O2C
29	Z9	202	PEB	CAC-CBC-CGC-O2C
29	b9	202	PEB	CAC-CBC-CGC-O2C
29	d9	202	PEB	CAC-CBC-CGC-O2C
29	f9	202	PEB	CAC-CBC-CGC-O2C
29	h9	202	PEB	CAC-CBC-CGC-O2C
29	j9	202	PEB	CAC-CBC-CGC-O2C
29	l9	202	PEB	CAC-CBC-CGC-O2C
29	dD	401	PEB	CAC-CBC-CGC-O2C
29	CD	201	PEB	CAC-CBC-CGC-O2C
29	GD	201	PEB	CAC-CBC-CGC-O2C
29	ID	201	PEB	CAC-CBC-CGC-O2C
29	MD	201	PEB	CAC-CBC-CGC-O2C
29	VF	202	PEB	CAC-CBC-CGC-O2C
29	VI	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	NO	201	PEB	CAB-CBB-CGB-O2B
30	A7	303	PUB	CAB-CBB-CGB-O1B
30	A9	303	PUB	CAB-CBB-CGB-O1B
29	N2	203	PEB	CAB-CBB-CGB-O1B
29	R2	203	PEB	CAB-CBB-CGB-O1B
29	V2	203	PEB	CAB-CBB-CGB-O1B
29	X2	202	PEB	CAB-CBB-CGB-O1B
29	OF	203	PEB	CAC-CBC-CGC-O2C
29	PF	202	PEB	CAC-CBC-CGC-O2C
29	UF	201	PEB	CAC-CBC-CGC-O2C
29	YF	202	PEB	CAC-CBC-CGC-O2C
29	aF	202	PEB	CAC-CBC-CGC-O2C
29	dF	201	PEB	CAC-CBC-CGC-O2C
29	eF	202	PEB	CAC-CBC-CGC-O2C
29	gF	202	PEB	CAC-CBC-CGC-O2C
29	iF	202	PEB	CAC-CBC-CGC-O2C
29	kF	202	PEB	CAC-CBC-CGC-O2C
29	MG	401	PEB	CAC-CBC-CGC-O1C
29	MG	405	PEB	CAC-CBC-CGC-O2C
29	OI	203	PEB	CAC-CBC-CGC-O2C
29	PI	202	PEB	CAC-CBC-CGC-O2C
29	UI	201	PEB	CAC-CBC-CGC-O2C
29	YI	202	PEB	CAC-CBC-CGC-O2C
29	aI	202	PEB	CAC-CBC-CGC-O2C
29	dI	201	PEB	CAC-CBC-CGC-O2C
29	eI	202	PEB	CAC-CBC-CGC-O2C
29	gI	202	PEB	CAC-CBC-CGC-O2C
29	iI	202	PEB	CAC-CBC-CGC-O2C
29	kI	202	PEB	CAC-CBC-CGC-O2C
29	MQ	403	PEB	CAC-CBC-CGC-O1C
29	MQ	407	PEB	CAC-CBC-CGC-O2C
29	PR	202	PEB	CAB-CBB-CGB-O1B
29	RR	203	PEB	CAB-CBB-CGB-O1B
29	TR	203	PEB	CAB-CBB-CGB-O1B
29	VR	203	PEB	CAB-CBB-CGB-O1B
29	XR	203	PEB	CAB-CBB-CGB-O1B
30	AF	302	PUB	CAB-CBB-CGB-O1B
30	AI	302	PUB	CAB-CBB-CGB-O1B
29	P2	202	PEB	CAB-CBB-CGB-O1B
29	T2	203	PEB	CAB-CBB-CGB-O1B
29	D4	201	PEB	CAC-CBC-CGC-O1C
29	O7	202	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	O7	202	PEB	CAB-CBB-CGB-O2B
29	Q7	202	PEB	CAB-CBB-CGB-O1B
29	S7	202	PEB	CAB-CBB-CGB-O1B
29	S7	202	PEB	CAB-CBB-CGB-O2B
29	U7	202	PEB	CAB-CBB-CGB-O1B
29	U7	202	PEB	CAB-CBB-CGB-O2B
29	W7	202	PEB	CAB-CBB-CGB-O1B
29	W7	202	PEB	CAB-CBB-CGB-O2B
29	Z7	202	PEB	CAB-CBB-CGB-O1B
29	b7	202	PEB	CAB-CBB-CGB-O1B
29	b7	202	PEB	CAB-CBB-CGB-O2B
29	d7	202	PEB	CAB-CBB-CGB-O1B
29	f7	202	PEB	CAB-CBB-CGB-O1B
29	h7	202	PEB	CAB-CBB-CGB-O1B
29	j7	202	PEB	CAB-CBB-CGB-O1B
29	j7	202	PEB	CAB-CBB-CGB-O2B
29	l7	202	PEB	CAB-CBB-CGB-O1B
29	O9	202	PEB	CAB-CBB-CGB-O1B
29	O9	202	PEB	CAB-CBB-CGB-O2B
29	Q9	202	PEB	CAB-CBB-CGB-O1B
29	S9	202	PEB	CAB-CBB-CGB-O1B
29	S9	202	PEB	CAB-CBB-CGB-O2B
29	U9	202	PEB	CAB-CBB-CGB-O1B
29	U9	202	PEB	CAB-CBB-CGB-O2B
29	W9	202	PEB	CAB-CBB-CGB-O1B
29	W9	202	PEB	CAB-CBB-CGB-O2B
29	Z9	202	PEB	CAB-CBB-CGB-O1B
29	b9	202	PEB	CAB-CBB-CGB-O1B
29	b9	202	PEB	CAB-CBB-CGB-O2B
29	d9	202	PEB	CAB-CBB-CGB-O1B
29	f9	202	PEB	CAB-CBB-CGB-O1B
29	h9	202	PEB	CAB-CBB-CGB-O1B
29	j9	202	PEB	CAB-CBB-CGB-O1B
29	j9	202	PEB	CAB-CBB-CGB-O2B
29	l9	202	PEB	CAB-CBB-CGB-O1B
29	AB	303	PEB	CAB-CBB-CGB-O2B
29	NR	203	PEB	CAB-CBB-CGB-O1B
29	O1	201	PEB	CAB-CBB-CGB-O1B
29	S1	201	PEB	CAB-CBB-CGB-O1B
29	U1	202	PEB	CAB-CBB-CGB-O1B
29	W1	201	PEB	CAB-CBB-CGB-O1B
29	Z1	202	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	b1	201	PEB	CAB-CBB-CGB-O1B
29	f1	201	PEB	CAB-CBB-CGB-O1B
29	h1	201	PEB	CAB-CBB-CGB-O1B
29	j1	201	PEB	CAB-CBB-CGB-O1B
29	l1	201	PEB	CAB-CBB-CGB-O1B
29	F4	201	PEB	CAC-CBC-CGC-O1C
29	H4	201	PEB	CAC-CBC-CGC-O1C
29	J4	201	PEB	CAC-CBC-CGC-O1C
29	Q7	202	PEB	CAB-CBB-CGB-O2B
29	Z7	202	PEB	CAB-CBB-CGB-O2B
29	d7	202	PEB	CAB-CBB-CGB-O2B
29	f7	202	PEB	CAB-CBB-CGB-O2B
29	h7	202	PEB	CAB-CBB-CGB-O2B
29	l7	202	PEB	CAB-CBB-CGB-O2B
29	Q9	202	PEB	CAB-CBB-CGB-O2B
29	Z9	202	PEB	CAB-CBB-CGB-O2B
29	d9	202	PEB	CAB-CBB-CGB-O2B
29	f9	202	PEB	CAB-CBB-CGB-O2B
29	h9	202	PEB	CAB-CBB-CGB-O2B
29	l9	202	PEB	CAB-CBB-CGB-O2B
29	AB	302	PEB	CAB-CBB-CGB-O2B
29	HB	201	PEB	CAC-CBC-CGC-O2C
29	NB	201	PEB	CAC-CBC-CGC-O2C
29	VB	201	PEB	CAC-CBC-CGC-O2C
29	ZB	201	PEB	CAC-CBC-CGC-O2C
29	cB	201	PEB	CAC-CBC-CGC-O2C
29	gB	203	PEB	CAB-CBB-CGB-O1B
29	iB	201	PEB	CAC-CBC-CGC-O2C
29	kB	201	PEB	CAC-CBC-CGC-O2C
29	mB	203	PEB	CAB-CBB-CGB-O1B
29	DD	201	PEB	CAC-CBC-CGC-O1C
29	FD	201	PEB	CAC-CBC-CGC-O1C
29	HD	201	PEB	CAC-CBC-CGC-O1C
29	ID	202	PEB	CAB-CBB-CGB-O1B
29	LD	201	PEB	CAC-CBC-CGC-O1C
29	BJ	203	PEB	CAC-CBC-CGC-O2C
29	DJ	202	PEB	CAC-CBC-CGC-O2C
29	FJ	203	PEB	CAC-CBC-CGC-O2C
29	HJ	202	PEB	CAC-CBC-CGC-O2C
29	JJ	203	PEB	CAC-CBC-CGC-O2C
29	LJ	202	PEB	CAC-CBC-CGC-O2C
29	NJ	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	PJ	203	PEB	CAC-CBC-CGC-O2C
29	RJ	203	PEB	CAC-CBC-CGC-O2C
29	TJ	203	PEB	CAC-CBC-CGC-O2C
29	VJ	202	PEB	CAC-CBC-CGC-O2C
29	XJ	203	PEB	CAC-CBC-CGC-O2C
29	ZJ	203	PEB	CAC-CBC-CGC-O2C
29	dJ	203	PEB	CAC-CBC-CGC-O2C
29	fJ	203	PEB	CAC-CBC-CGC-O2C
29	hJ	203	PEB	CAC-CBC-CGC-O2C
29	jJ	203	PEB	CAC-CBC-CGC-O2C
29	lJ	203	PEB	CAC-CBC-CGC-O2C
29	nJ	203	PEB	CAC-CBC-CGC-O2C
29	pJ	203	PEB	CAC-CBC-CGC-O2C
29	rJ	203	PEB	CAC-CBC-CGC-O2C
29	tJ	202	PEB	CAC-CBC-CGC-O2C
29	vJ	202	PEB	CAC-CBC-CGC-O2C
29	OK	201	PEB	CAB-CBB-CGB-O1B
29	SK	201	PEB	CAB-CBB-CGB-O1B
29	UK	202	PEB	CAB-CBB-CGB-O1B
29	WK	201	PEB	CAB-CBB-CGB-O1B
29	ZK	202	PEB	CAB-CBB-CGB-O1B
29	bK	201	PEB	CAB-CBB-CGB-O1B
29	fK	201	PEB	CAB-CBB-CGB-O1B
29	hK	201	PEB	CAB-CBB-CGB-O1B
29	jK	201	PEB	CAB-CBB-CGB-O1B
29	lK	201	PEB	CAB-CBB-CGB-O1B
29	BL	203	PEB	CAC-CBC-CGC-O2C
29	DL	202	PEB	CAC-CBC-CGC-O2C
29	FL	203	PEB	CAC-CBC-CGC-O2C
29	HL	202	PEB	CAC-CBC-CGC-O2C
29	JL	203	PEB	CAC-CBC-CGC-O2C
29	LL	202	PEB	CAC-CBC-CGC-O2C
29	NL	203	PEB	CAC-CBC-CGC-O2C
29	PL	203	PEB	CAC-CBC-CGC-O2C
29	RL	203	PEB	CAC-CBC-CGC-O2C
29	TL	203	PEB	CAC-CBC-CGC-O2C
29	VL	202	PEB	CAC-CBC-CGC-O2C
29	XL	203	PEB	CAC-CBC-CGC-O2C
29	ZL	203	PEB	CAC-CBC-CGC-O2C
29	dL	203	PEB	CAC-CBC-CGC-O2C
29	fL	203	PEB	CAC-CBC-CGC-O2C
29	hL	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	jL	203	PEB	CAC-CBC-CGC-O2C
29	lL	203	PEB	CAC-CBC-CGC-O2C
29	nL	203	PEB	CAC-CBC-CGC-O2C
29	pL	203	PEB	CAC-CBC-CGC-O2C
29	rL	203	PEB	CAC-CBC-CGC-O2C
29	tL	202	PEB	CAC-CBC-CGC-O2C
29	vL	202	PEB	CAC-CBC-CGC-O2C
29	AM	302	PEB	CAB-CBB-CGB-O2B
29	AM	303	PEB	CAB-CBB-CGB-O2B
29	HM	201	PEB	CAC-CBC-CGC-O2C
29	NM	201	PEB	CAC-CBC-CGC-O2C
29	VM	201	PEB	CAC-CBC-CGC-O2C
29	ZM	201	PEB	CAC-CBC-CGC-O2C
29	cM	201	PEB	CAC-CBC-CGC-O2C
29	gM	203	PEB	CAB-CBB-CGB-O1B
29	iM	201	PEB	CAC-CBC-CGC-O2C
29	kM	201	PEB	CAC-CBC-CGC-O2C
29	mM	203	PEB	CAB-CBB-CGB-O1B
30	MQ	404	PUB	CAB-CBB-CGB-O1B
29	Q1	201	PEB	CAB-CBB-CGB-O1B
29	d1	201	PEB	CAB-CBB-CGB-O1B
29	D3	202	PEB	CAB-CBB-CGB-O1B
29	B4	201	PEB	CAC-CBC-CGC-O1C
29	I4	202	PEB	CAB-CBB-CGB-O1B
29	DB	201	PEB	CAC-CBC-CGC-O2C
29	FB	201	PEB	CAC-CBC-CGC-O2C
29	HB	203	PEB	CAB-CBB-CGB-O1B
29	JB	201	PEB	CAC-CBC-CGC-O2C
29	LB	201	PEB	CAC-CBC-CGC-O2C
29	PB	201	PEB	CAC-CBC-CGC-O2C
29	PB	202	PEB	CAB-CBB-CGB-O1B
29	RB	201	PEB	CAC-CBC-CGC-O2C
29	TB	201	PEB	CAC-CBC-CGC-O2C
29	TB	203	PEB	CAB-CBB-CGB-O1B
29	XB	201	PEB	CAC-CBC-CGC-O2C
29	cB	203	PEB	CAB-CBB-CGB-O1B
29	eB	201	PEB	CAC-CBC-CGC-O2C
29	eB	202	PEB	CAB-CBB-CGB-O1B
29	gB	201	PEB	CAC-CBC-CGC-O2C
29	mB	201	PEB	CAC-CBC-CGC-O2C
29	KD	202	PEB	CAB-CBB-CGB-O1B
29	AF	305	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	AI	305	PEB	CAC-CBC-CGC-O1C
29	TJ	201	PEB	CAC-CBC-CGC-O1C
29	bJ	203	PEB	CAC-CBC-CGC-O2C
29	QK	201	PEB	CAB-CBB-CGB-O1B
29	dK	201	PEB	CAB-CBB-CGB-O1B
29	TL	201	PEB	CAC-CBC-CGC-O1C
29	bL	203	PEB	CAC-CBC-CGC-O2C
29	DM	201	PEB	CAC-CBC-CGC-O2C
29	FM	201	PEB	CAC-CBC-CGC-O2C
29	HM	203	PEB	CAB-CBB-CGB-O1B
29	JM	201	PEB	CAC-CBC-CGC-O2C
29	LM	201	PEB	CAC-CBC-CGC-O2C
29	PM	201	PEB	CAC-CBC-CGC-O2C
29	PM	202	PEB	CAB-CBB-CGB-O1B
29	RM	201	PEB	CAC-CBC-CGC-O2C
29	TM	201	PEB	CAC-CBC-CGC-O2C
29	TM	203	PEB	CAB-CBB-CGB-O1B
29	XM	201	PEB	CAC-CBC-CGC-O2C
29	cM	203	PEB	CAB-CBB-CGB-O1B
29	eM	201	PEB	CAC-CBC-CGC-O2C
29	eM	202	PEB	CAB-CBB-CGB-O1B
29	gM	201	PEB	CAC-CBC-CGC-O2C
29	mM	201	PEB	CAC-CBC-CGC-O2C
30	MG	402	PUB	CAB-CBB-CGB-O1B
31	VP	1001	CYC	CAD-CBD-CGD-O2D
29	C4	202	PEB	CAB-CBB-CGB-O1B
29	E4	202	PEB	CAB-CBB-CGB-O1B
29	G4	202	PEB	CAB-CBB-CGB-O1B
29	K4	202	PEB	CAB-CBB-CGB-O1B
29	L4	201	PEB	CAC-CBC-CGC-O1C
29	M4	202	PEB	CAB-CBB-CGB-O1B
29	BD	201	PEB	CAC-CBC-CGC-O1C
29	CD	202	PEB	CAB-CBB-CGB-O1B
29	ED	201	PEB	CAB-CBB-CGB-O1B
29	GD	202	PEB	CAB-CBB-CGB-O1B
29	JD	201	PEB	CAC-CBC-CGC-O1C
29	MD	202	PEB	CAB-CBB-CGB-O1B
29	DJ	201	PEB	CAB-CBB-CGB-O1B
29	DL	201	PEB	CAB-CBB-CGB-O1B
29	DO	202	PEB	CAB-CBB-CGB-O1B
30	MA	403	PUB	CAC-CBC-CGC-O2C
30	MN	403	PUB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
31	C1	1001	CYC	CAA-CBA-CGA-O1A
31	D1	1003	CYC	CAA-CBA-CGA-O1A
31	E1	1001	CYC	CAA-CBA-CGA-O1A
31	I1	1001	CYC	CAA-CBA-CGA-O1A
31	K1	1001	CYC	CAA-CBA-CGA-O1A
31	M1	1001	CYC	CAA-CBA-CGA-O1A
31	EK	1001	CYC	CAA-CBA-CGA-O1A
31	GK	1001	CYC	CAA-CBA-CGA-O1A
31	IK	1001	CYC	CAA-CBA-CGA-O1A
31	KK	1001	CYC	CAA-CBA-CGA-O1A
31	MK	1001	CYC	CAA-CBA-CGA-O1A
31	xP	1001	CYC	CAD-CBD-CGD-O2D
29	I5	203	PEB	CAC-CBC-CGC-O2C
29	A5	203	PEB	CAC-CBC-CGC-O2C
29	C5	203	PEB	CAC-CBC-CGC-O2C
29	I8	203	PEB	CAC-CBC-CGC-O2C
29	A8	203	PEB	CAC-CBC-CGC-O2C
29	C8	203	PEB	CAC-CBC-CGC-O2C
29	AA	202	PEB	CAB-CBB-CGB-O2B
29	CA	202	PEB	CAB-CBB-CGB-O2B
29	EA	202	PEB	CAB-CBB-CGB-O2B
29	GA	202	PEB	CAB-CBB-CGB-O2B
29	IA	202	PEB	CAB-CBB-CGB-O2B
29	KA	202	PEB	CAB-CBB-CGB-O2B
29	AB	303	PEB	CAB-CBB-CGB-O1B
29	DB	203	PEB	CAB-CBB-CGB-O1B
29	DB	203	PEB	CAB-CBB-CGB-O2B
29	FB	203	PEB	CAB-CBB-CGB-O1B
29	FB	203	PEB	CAB-CBB-CGB-O2B
29	JB	203	PEB	CAB-CBB-CGB-O1B
29	LB	203	PEB	CAB-CBB-CGB-O1B
29	LB	203	PEB	CAB-CBB-CGB-O2B
29	NB	202	PEB	CAB-CBB-CGB-O1B
29	NB	202	PEB	CAB-CBB-CGB-O2B
29	RB	203	PEB	CAB-CBB-CGB-O1B
29	VB	203	PEB	CAB-CBB-CGB-O1B
29	VB	203	PEB	CAB-CBB-CGB-O2B
29	XB	202	PEB	CAB-CBB-CGB-O1B
29	ZB	203	PEB	CAB-CBB-CGB-O1B
29	eB	202	PEB	CAB-CBB-CGB-O2B
29	gB	203	PEB	CAB-CBB-CGB-O2B
29	iB	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	iB	203	PEB	CAB-CBB-CGB-O2B
29	kB	203	PEB	CAB-CBB-CGB-O1B
29	mB	203	PEB	CAB-CBB-CGB-O2B
29	AF	305	PEB	CAC-CBC-CGC-O2C
29	AI	305	PEB	CAC-CBC-CGC-O2C
29	BJ	201	PEB	CAB-CBB-CGB-O1B
29	DJ	201	PEB	CAC-CBC-CGC-O1C
29	FJ	201	PEB	CAC-CBC-CGC-O1C
29	FJ	201	PEB	CAB-CBB-CGB-O1B
29	JJ	201	PEB	CAC-CBC-CGC-O1C
29	JJ	201	PEB	CAB-CBB-CGB-O1B
29	LJ	201	PEB	CAC-CBC-CGC-O1C
29	LJ	201	PEB	CAB-CBB-CGB-O1B
29	NJ	201	PEB	CAC-CBC-CGC-O1C
29	NJ	201	PEB	CAB-CBB-CGB-O1B
29	PJ	201	PEB	CAC-CBC-CGC-O1C
29	PJ	201	PEB	CAB-CBB-CGB-O1B
29	RJ	201	PEB	CAC-CBC-CGC-O1C
29	RJ	201	PEB	CAB-CBB-CGB-O1B
29	TJ	201	PEB	CAB-CBB-CGB-O1B
29	VJ	201	PEB	CAC-CBC-CGC-O1C
29	VJ	201	PEB	CAB-CBB-CGB-O1B
29	XJ	201	PEB	CAC-CBC-CGC-O1C
29	XJ	201	PEB	CAB-CBB-CGB-O1B
29	ZJ	201	PEB	CAC-CBC-CGC-O1C
29	ZJ	201	PEB	CAB-CBB-CGB-O1B
29	bJ	201	PEB	CAC-CBC-CGC-O1C
29	bJ	201	PEB	CAB-CBB-CGB-O1B
29	dJ	201	PEB	CAC-CBC-CGC-O1C
29	dJ	201	PEB	CAB-CBB-CGB-O1B
29	fJ	201	PEB	CAC-CBC-CGC-O1C
29	fJ	201	PEB	CAB-CBB-CGB-O1B
29	hJ	201	PEB	CAC-CBC-CGC-O1C
29	hJ	201	PEB	CAB-CBB-CGB-O1B
29	jJ	201	PEB	CAC-CBC-CGC-O1C
29	jJ	201	PEB	CAB-CBB-CGB-O1B
29	lJ	201	PEB	CAC-CBC-CGC-O1C
29	lJ	201	PEB	CAB-CBB-CGB-O1B
29	nJ	201	PEB	CAC-CBC-CGC-O1C
29	nJ	201	PEB	CAB-CBB-CGB-O1B
29	pJ	201	PEB	CAC-CBC-CGC-O1C
29	pJ	201	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	rJ	201	PEB	CAC-CBC-CGC-O1C
29	rJ	201	PEB	CAB-CBB-CGB-O1B
29	tJ	201	PEB	CAC-CBC-CGC-O1C
29	tJ	201	PEB	CAB-CBB-CGB-O1B
29	vJ	201	PEB	CAC-CBC-CGC-O1C
29	vJ	201	PEB	CAB-CBB-CGB-O1B
29	BL	201	PEB	CAB-CBB-CGB-O1B
29	DL	201	PEB	CAC-CBC-CGC-O1C
29	FL	201	PEB	CAC-CBC-CGC-O1C
29	FL	201	PEB	CAB-CBB-CGB-O1B
29	JL	201	PEB	CAC-CBC-CGC-O1C
29	JL	201	PEB	CAB-CBB-CGB-O1B
29	LL	201	PEB	CAC-CBC-CGC-O1C
29	LL	201	PEB	CAB-CBB-CGB-O1B
29	NL	201	PEB	CAC-CBC-CGC-O1C
29	NL	201	PEB	CAB-CBB-CGB-O1B
29	PL	201	PEB	CAC-CBC-CGC-O1C
29	PL	201	PEB	CAB-CBB-CGB-O1B
29	RL	201	PEB	CAC-CBC-CGC-O1C
29	RL	201	PEB	CAB-CBB-CGB-O1B
29	TL	201	PEB	CAB-CBB-CGB-O1B
29	VL	201	PEB	CAC-CBC-CGC-O1C
29	VL	201	PEB	CAB-CBB-CGB-O1B
29	XL	201	PEB	CAC-CBC-CGC-O1C
29	XL	201	PEB	CAB-CBB-CGB-O1B
29	ZL	201	PEB	CAC-CBC-CGC-O1C
29	ZL	201	PEB	CAB-CBB-CGB-O1B
29	bL	201	PEB	CAC-CBC-CGC-O1C
29	bL	201	PEB	CAB-CBB-CGB-O1B
29	dL	201	PEB	CAC-CBC-CGC-O1C
29	dL	201	PEB	CAB-CBB-CGB-O1B
29	fL	201	PEB	CAC-CBC-CGC-O1C
29	fL	201	PEB	CAB-CBB-CGB-O1B
29	hL	201	PEB	CAC-CBC-CGC-O1C
29	hL	201	PEB	CAB-CBB-CGB-O1B
29	jL	201	PEB	CAC-CBC-CGC-O1C
29	jL	201	PEB	CAB-CBB-CGB-O1B
29	lL	201	PEB	CAC-CBC-CGC-O1C
29	lL	201	PEB	CAB-CBB-CGB-O1B
29	nL	201	PEB	CAC-CBC-CGC-O1C
29	nL	201	PEB	CAB-CBB-CGB-O1B
29	pL	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	pL	201	PEB	CAB-CBB-CGB-O1B
29	rL	201	PEB	CAC-CBC-CGC-O1C
29	rL	201	PEB	CAB-CBB-CGB-O1B
29	tL	201	PEB	CAC-CBC-CGC-O1C
29	tL	201	PEB	CAB-CBB-CGB-O1B
29	vL	201	PEB	CAC-CBC-CGC-O1C
29	vL	201	PEB	CAB-CBB-CGB-O1B
29	DM	203	PEB	CAB-CBB-CGB-O1B
29	DM	203	PEB	CAB-CBB-CGB-O2B
29	FM	203	PEB	CAB-CBB-CGB-O1B
29	FM	203	PEB	CAB-CBB-CGB-O2B
29	JM	203	PEB	CAB-CBB-CGB-O1B
29	LM	203	PEB	CAB-CBB-CGB-O1B
29	LM	203	PEB	CAB-CBB-CGB-O2B
29	NM	202	PEB	CAB-CBB-CGB-O1B
29	NM	202	PEB	CAB-CBB-CGB-O2B
29	RM	203	PEB	CAB-CBB-CGB-O1B
29	VM	203	PEB	CAB-CBB-CGB-O1B
29	VM	203	PEB	CAB-CBB-CGB-O2B
29	XM	202	PEB	CAB-CBB-CGB-O1B
29	ZM	203	PEB	CAB-CBB-CGB-O1B
29	eM	202	PEB	CAB-CBB-CGB-O2B
29	gM	203	PEB	CAB-CBB-CGB-O2B
29	iM	203	PEB	CAB-CBB-CGB-O1B
29	iM	203	PEB	CAB-CBB-CGB-O2B
29	kM	203	PEB	CAB-CBB-CGB-O1B
29	mM	203	PEB	CAB-CBB-CGB-O2B
29	AN	202	PEB	CAB-CBB-CGB-O2B
29	CN	202	PEB	CAB-CBB-CGB-O2B
29	EN	202	PEB	CAB-CBB-CGB-O2B
29	GN	202	PEB	CAB-CBB-CGB-O2B
29	IN	202	PEB	CAB-CBB-CGB-O2B
29	KN	202	PEB	CAB-CBB-CGB-O2B
30	wL	305	PUB	CAB-CBB-CGB-O2B
31	CK	1001	CYC	CAA-CBA-CGA-O1A
31	YP	1000	CYC	CAD-CBD-CGD-O2D
31	1P	1002	CYC	CAD-CBD-CGD-O2D
29	K4	203	PEB	CAB-CBB-CGB-O1B
29	K5	203	PEB	CAC-CBC-CGC-O1C
29	K5	203	PEB	CAC-CBC-CGC-O2C
29	K8	203	PEB	CAC-CBC-CGC-O1C
29	K8	203	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	AA	202	PEB	CAB-CBB-CGB-O1B
29	CA	202	PEB	CAB-CBB-CGB-O1B
29	EA	202	PEB	CAB-CBB-CGB-O1B
29	IA	202	PEB	CAB-CBB-CGB-O1B
29	KA	202	PEB	CAB-CBB-CGB-O1B
29	DB	202	PEB	CAC-CBC-CGC-O1C
29	FB	202	PEB	CAC-CBC-CGC-O1C
29	HB	202	PEB	CAC-CBC-CGC-O1C
29	JB	202	PEB	CAC-CBC-CGC-O1C
29	KB	203	PEB	CAC-CBC-CGC-O1C
29	XB	202	PEB	CAB-CBB-CGB-O2B
29	ZB	202	PEB	CAC-CBC-CGC-O1C
29	kB	202	PEB	CAC-CBC-CGC-O1C
29	ED	202	PEB	CAB-CBB-CGB-O1B
29	MD	203	PEB	CAB-CBB-CGB-O1B
29	MG	404	PEB	CAC-CBC-CGC-O1C
29	BJ	201	PEB	CAC-CBC-CGC-O1C
29	BL	201	PEB	CAC-CBC-CGC-O1C
29	AM	303	PEB	CAB-CBB-CGB-O1B
29	DM	202	PEB	CAC-CBC-CGC-O1C
29	FM	202	PEB	CAC-CBC-CGC-O1C
29	HM	202	PEB	CAC-CBC-CGC-O1C
29	JM	202	PEB	CAC-CBC-CGC-O1C
29	KM	203	PEB	CAC-CBC-CGC-O1C
29	XM	202	PEB	CAB-CBB-CGB-O2B
29	ZM	202	PEB	CAC-CBC-CGC-O1C
29	kM	202	PEB	CAC-CBC-CGC-O1C
29	AN	202	PEB	CAB-CBB-CGB-O1B
29	CN	202	PEB	CAB-CBB-CGB-O1B
29	EN	202	PEB	CAB-CBB-CGB-O1B
29	IN	202	PEB	CAB-CBB-CGB-O1B
29	KN	202	PEB	CAB-CBB-CGB-O1B
29	MQ	406	PEB	CAC-CBC-CGC-O1C
29	OR	202	PEB	CAB-CBB-CGB-O2B
30	wJ	305	PUB	CAB-CBB-CGB-O1B
30	wJ	305	PUB	CAB-CBB-CGB-O2B
30	xJ	305	PUB	CAB-CBB-CGB-O2B
30	xL	305	PUB	CAB-CBB-CGB-O2B
31	1P	1002	CYC	CAD-CBD-CGD-O1D
29	M3	201	PEB	CAB-CBB-CGB-O1B
29	N3	201	PEB	CAB-CBB-CGB-O1B
29	C4	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	E4	203	PEB	CAB-CBB-CGB-O1B
29	G4	203	PEB	CAB-CBB-CGB-O1B
29	M4	203	PEB	CAB-CBB-CGB-O2B
29	I5	203	PEB	CAC-CBC-CGC-O1C
29	A5	203	PEB	CAC-CBC-CGC-O1C
29	C5	203	PEB	CAC-CBC-CGC-O1C
29	R7	202	PEB	CAB-CBB-CGB-O2B
29	T7	202	PEB	CAB-CBB-CGB-O2B
29	V7	202	PEB	CAB-CBB-CGB-O2B
29	a7	202	PEB	CAB-CBB-CGB-O2B
29	c7	202	PEB	CAB-CBB-CGB-O2B
29	e7	202	PEB	CAB-CBB-CGB-O2B
29	g7	202	PEB	CAB-CBB-CGB-O2B
29	k7	202	PEB	CAB-CBB-CGB-O2B
29	m7	202	PEB	CAB-CBB-CGB-O2B
29	I8	203	PEB	CAC-CBC-CGC-O1C
29	A8	203	PEB	CAC-CBC-CGC-O1C
29	C8	203	PEB	CAC-CBC-CGC-O1C
29	R9	202	PEB	CAB-CBB-CGB-O2B
29	T9	202	PEB	CAB-CBB-CGB-O2B
29	V9	202	PEB	CAB-CBB-CGB-O2B
29	a9	202	PEB	CAB-CBB-CGB-O2B
29	c9	202	PEB	CAB-CBB-CGB-O2B
29	e9	202	PEB	CAB-CBB-CGB-O2B
29	g9	202	PEB	CAB-CBB-CGB-O2B
29	k9	202	PEB	CAB-CBB-CGB-O2B
29	m9	202	PEB	CAB-CBB-CGB-O2B
29	GA	202	PEB	CAB-CBB-CGB-O1B
29	DB	201	PEB	CAC-CBC-CGC-O1C
29	FB	201	PEB	CAC-CBC-CGC-O1C
29	HB	202	PEB	CAC-CBC-CGC-O2C
29	HB	203	PEB	CAB-CBB-CGB-O2B
29	JB	203	PEB	CAB-CBB-CGB-O2B
29	KB	203	PEB	CAC-CBC-CGC-O2C
29	LB	202	PEB	CAC-CBC-CGC-O1C
29	LB	202	PEB	CAC-CBC-CGC-O2C
29	PB	202	PEB	CAB-CBB-CGB-O2B
29	QB	202	PEB	CAC-CBC-CGC-O1C
29	RB	202	PEB	CAC-CBC-CGC-O1C
29	RB	203	PEB	CAB-CBB-CGB-O2B
29	TB	202	PEB	CAC-CBC-CGC-O1C
29	TB	203	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	VB	202	PEB	CAC-CBC-CGC-O1C
29	YB	201	PEB	CAC-CBC-CGC-O1C
29	ZB	202	PEB	CAC-CBC-CGC-O2C
29	ZB	203	PEB	CAB-CBB-CGB-O2B
29	aB	203	PEB	CAC-CBC-CGC-O1C
29	cB	202	PEB	CAC-CBC-CGC-O1C
29	cB	202	PEB	CAC-CBC-CGC-O2C
29	cB	203	PEB	CAB-CBB-CGB-O2B
29	gB	202	PEB	CAC-CBC-CGC-O1C
29	iB	202	PEB	CAC-CBC-CGC-O1C
29	iB	202	PEB	CAC-CBC-CGC-O2C
29	kB	201	PEB	CAC-CBC-CGC-O1C
29	kB	203	PEB	CAB-CBB-CGB-O2B
29	mB	202	PEB	CAC-CBC-CGC-O1C
29	CD	203	PEB	CAB-CBB-CGB-O1B
29	GD	203	PEB	CAB-CBB-CGB-O1B
29	ID	203	PEB	CAB-CBB-CGB-O1B
29	KD	203	PEB	CAB-CBB-CGB-O1B
29	KD	203	PEB	CAB-CBB-CGB-O2B
29	FG	203	PEB	CAC-CBC-CGC-O1C
29	HG	203	PEB	CAC-CBC-CGC-O1C
29	BJ	203	PEB	CAC-CBC-CGC-O1C
29	DJ	202	PEB	CAC-CBC-CGC-O1C
29	FJ	203	PEB	CAC-CBC-CGC-O1C
29	HJ	202	PEB	CAC-CBC-CGC-O1C
29	JJ	203	PEB	CAC-CBC-CGC-O1C
29	LJ	202	PEB	CAC-CBC-CGC-O1C
29	NJ	203	PEB	CAC-CBC-CGC-O1C
29	PJ	203	PEB	CAC-CBC-CGC-O1C
29	RJ	203	PEB	CAC-CBC-CGC-O1C
29	TJ	203	PEB	CAC-CBC-CGC-O1C
29	XJ	203	PEB	CAC-CBC-CGC-O1C
29	ZJ	203	PEB	CAC-CBC-CGC-O1C
29	bJ	203	PEB	CAC-CBC-CGC-O1C
29	dJ	203	PEB	CAC-CBC-CGC-O1C
29	fJ	203	PEB	CAC-CBC-CGC-O1C
29	hJ	203	PEB	CAC-CBC-CGC-O1C
29	jJ	203	PEB	CAC-CBC-CGC-O1C
29	lJ	203	PEB	CAC-CBC-CGC-O1C
29	nJ	203	PEB	CAC-CBC-CGC-O1C
29	pJ	203	PEB	CAC-CBC-CGC-O1C
29	rJ	203	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	tJ	202	PEB	CAC-CBC-CGC-O1C
29	vJ	202	PEB	CAC-CBC-CGC-O1C
29	BL	203	PEB	CAC-CBC-CGC-O1C
29	DL	202	PEB	CAC-CBC-CGC-O1C
29	FL	203	PEB	CAC-CBC-CGC-O1C
29	HL	202	PEB	CAC-CBC-CGC-O1C
29	JL	203	PEB	CAC-CBC-CGC-O1C
29	LL	202	PEB	CAC-CBC-CGC-O1C
29	NL	203	PEB	CAC-CBC-CGC-O1C
29	PL	203	PEB	CAC-CBC-CGC-O1C
29	RL	203	PEB	CAC-CBC-CGC-O1C
29	TL	203	PEB	CAC-CBC-CGC-O1C
29	XL	203	PEB	CAC-CBC-CGC-O1C
29	ZL	203	PEB	CAC-CBC-CGC-O1C
29	bL	203	PEB	CAC-CBC-CGC-O1C
29	dL	203	PEB	CAC-CBC-CGC-O1C
29	fL	203	PEB	CAC-CBC-CGC-O1C
29	hL	203	PEB	CAC-CBC-CGC-O1C
29	jL	203	PEB	CAC-CBC-CGC-O1C
29	lL	203	PEB	CAC-CBC-CGC-O1C
29	nL	203	PEB	CAC-CBC-CGC-O1C
29	pL	203	PEB	CAC-CBC-CGC-O1C
29	rL	203	PEB	CAC-CBC-CGC-O1C
29	tL	202	PEB	CAC-CBC-CGC-O1C
29	vL	202	PEB	CAC-CBC-CGC-O1C
29	DM	201	PEB	CAC-CBC-CGC-O1C
29	FM	201	PEB	CAC-CBC-CGC-O1C
29	HM	202	PEB	CAC-CBC-CGC-O2C
29	HM	203	PEB	CAB-CBB-CGB-O2B
29	JM	203	PEB	CAB-CBB-CGB-O2B
29	KM	203	PEB	CAC-CBC-CGC-O2C
29	LM	202	PEB	CAC-CBC-CGC-O1C
29	LM	202	PEB	CAC-CBC-CGC-O2C
29	PM	202	PEB	CAB-CBB-CGB-O2B
29	QM	202	PEB	CAC-CBC-CGC-O1C
29	RM	202	PEB	CAC-CBC-CGC-O1C
29	RM	203	PEB	CAB-CBB-CGB-O2B
29	TM	202	PEB	CAC-CBC-CGC-O1C
29	TM	203	PEB	CAB-CBB-CGB-O2B
29	VM	202	PEB	CAC-CBC-CGC-O1C
29	YM	201	PEB	CAC-CBC-CGC-O1C
29	ZM	202	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	ZM	203	PEB	CAB-CBB-CGB-O2B
29	aM	203	PEB	CAC-CBC-CGC-O1C
29	cM	202	PEB	CAC-CBC-CGC-O1C
29	cM	202	PEB	CAC-CBC-CGC-O2C
29	cM	203	PEB	CAB-CBB-CGB-O2B
29	gM	202	PEB	CAC-CBC-CGC-O1C
29	iM	202	PEB	CAC-CBC-CGC-O1C
29	iM	202	PEB	CAC-CBC-CGC-O2C
29	kM	201	PEB	CAC-CBC-CGC-O1C
29	kM	203	PEB	CAB-CBB-CGB-O2B
29	mM	202	PEB	CAC-CBC-CGC-O1C
29	GN	202	PEB	CAB-CBB-CGB-O1B
29	MO	201	PEB	CAB-CBB-CGB-O1B
29	NO	201	PEB	CAB-CBB-CGB-O1B
29	FQ	203	PEB	CAC-CBC-CGC-O1C
29	HQ	203	PEB	CAC-CBC-CGC-O1C
29	OR	202	PEB	CAB-CBB-CGB-O1B
30	MA	403	PUB	CAB-CBB-CGB-O1B
30	xJ	305	PUB	CAB-CBB-CGB-O1B
30	wL	305	PUB	CAB-CBB-CGB-O1B
30	xL	305	PUB	CAB-CBB-CGB-O1B
30	MN	403	PUB	CAB-CBB-CGB-O1B
31	D7	1001	CYC	CAA-CBA-CGA-O1A
31	F7	1001	CYC	CAA-CBA-CGA-O1A
31	H7	1001	CYC	CAA-CBA-CGA-O1A
31	J7	1001	CYC	CAA-CBA-CGA-O1A
31	L7	1001	CYC	CAA-CBA-CGA-O1A
31	N7	1001	CYC	CAA-CBA-CGA-O1A
31	D9	1001	CYC	CAA-CBA-CGA-O1A
31	H9	1001	CYC	CAA-CBA-CGA-O1A
31	J9	1001	CYC	CAA-CBA-CGA-O1A
31	L9	1001	CYC	CAA-CBA-CGA-O1A
31	N9	1001	CYC	CAA-CBA-CGA-O1A
29	B4	201	PEB	CAB-CBB-CGB-O1B
29	D4	201	PEB	CAB-CBB-CGB-O1B
29	E4	203	PEB	CAB-CBB-CGB-O2B
29	F4	201	PEB	CAB-CBB-CGB-O1B
29	G4	203	PEB	CAB-CBB-CGB-O2B
29	J4	201	PEB	CAB-CBB-CGB-O1B
29	K4	203	PEB	CAB-CBB-CGB-O2B
29	L4	201	PEB	CAB-CBB-CGB-O1B
29	M4	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	P7	202	PEB	CAB-CBB-CGB-O2B
29	Y7	202	PEB	CAB-CBB-CGB-O2B
29	i7	202	PEB	CAB-CBB-CGB-O2B
29	P9	202	PEB	CAB-CBB-CGB-O2B
29	Y9	202	PEB	CAB-CBB-CGB-O2B
29	i9	202	PEB	CAB-CBB-CGB-O2B
29	DB	202	PEB	CAC-CBC-CGC-O2C
29	FB	202	PEB	CAC-CBC-CGC-O2C
29	HB	201	PEB	CAC-CBC-CGC-O1C
29	JB	201	PEB	CAC-CBC-CGC-O1C
29	JB	202	PEB	CAC-CBC-CGC-O2C
29	LB	201	PEB	CAC-CBC-CGC-O1C
29	NB	201	PEB	CAC-CBC-CGC-O1C
29	PB	201	PEB	CAC-CBC-CGC-O1C
29	QB	202	PEB	CAC-CBC-CGC-O2C
29	RB	201	PEB	CAC-CBC-CGC-O1C
29	RB	202	PEB	CAC-CBC-CGC-O2C
29	TB	201	PEB	CAC-CBC-CGC-O1C
29	TB	202	PEB	CAC-CBC-CGC-O2C
29	VB	201	PEB	CAC-CBC-CGC-O1C
29	VB	202	PEB	CAC-CBC-CGC-O2C
29	XB	201	PEB	CAC-CBC-CGC-O1C
29	YB	201	PEB	CAC-CBC-CGC-O2C
29	ZB	201	PEB	CAC-CBC-CGC-O1C
29	aB	203	PEB	CAC-CBC-CGC-O2C
29	cB	201	PEB	CAC-CBC-CGC-O1C
29	eB	201	PEB	CAC-CBC-CGC-O1C
29	gB	201	PEB	CAC-CBC-CGC-O1C
29	gB	202	PEB	CAC-CBC-CGC-O2C
29	iB	201	PEB	CAC-CBC-CGC-O1C
29	kB	202	PEB	CAC-CBC-CGC-O2C
29	mB	201	PEB	CAC-CBC-CGC-O1C
29	mB	202	PEB	CAC-CBC-CGC-O2C
29	CD	203	PEB	CAB-CBB-CGB-O2B
29	DD	201	PEB	CAB-CBB-CGB-O1B
29	ED	202	PEB	CAB-CBB-CGB-O2B
29	FD	201	PEB	CAB-CBB-CGB-O1B
29	HD	201	PEB	CAB-CBB-CGB-O1B
29	LD	201	PEB	CAB-CBB-CGB-O1B
29	MD	203	PEB	CAB-CBB-CGB-O2B
29	BG	203	PEB	CAC-CBC-CGC-O1C
29	DG	203	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	JG	203	PEB	CAC-CBC-CGC-O1C
29	LG	203	PEB	CAC-CBC-CGC-O1C
29	VJ	202	PEB	CAC-CBC-CGC-O1C
29	VL	202	PEB	CAC-CBC-CGC-O1C
29	DM	202	PEB	CAC-CBC-CGC-O2C
29	FM	202	PEB	CAC-CBC-CGC-O2C
29	HM	201	PEB	CAC-CBC-CGC-O1C
29	JM	201	PEB	CAC-CBC-CGC-O1C
29	JM	202	PEB	CAC-CBC-CGC-O2C
29	LM	201	PEB	CAC-CBC-CGC-O1C
29	NM	201	PEB	CAC-CBC-CGC-O1C
29	PM	201	PEB	CAC-CBC-CGC-O1C
29	QM	202	PEB	CAC-CBC-CGC-O2C
29	RM	201	PEB	CAC-CBC-CGC-O1C
29	RM	202	PEB	CAC-CBC-CGC-O2C
29	TM	201	PEB	CAC-CBC-CGC-O1C
29	TM	202	PEB	CAC-CBC-CGC-O2C
29	VM	201	PEB	CAC-CBC-CGC-O1C
29	VM	202	PEB	CAC-CBC-CGC-O2C
29	XM	201	PEB	CAC-CBC-CGC-O1C
29	YM	201	PEB	CAC-CBC-CGC-O2C
29	ZM	201	PEB	CAC-CBC-CGC-O1C
29	aM	203	PEB	CAC-CBC-CGC-O2C
29	cM	201	PEB	CAC-CBC-CGC-O1C
29	eM	201	PEB	CAC-CBC-CGC-O1C
29	gM	201	PEB	CAC-CBC-CGC-O1C
29	gM	202	PEB	CAC-CBC-CGC-O2C
29	iM	201	PEB	CAC-CBC-CGC-O1C
29	kM	202	PEB	CAC-CBC-CGC-O2C
29	mM	201	PEB	CAC-CBC-CGC-O1C
29	mM	202	PEB	CAC-CBC-CGC-O2C
29	BQ	203	PEB	CAC-CBC-CGC-O1C
29	DQ	203	PEB	CAC-CBC-CGC-O1C
29	JQ	203	PEB	CAC-CBC-CGC-O1C
29	LQ	202	PEB	CAC-CBC-CGC-O1C
31	I1	1001	CYC	CAD-CBD-CGD-O2D
31	F9	1001	CYC	CAA-CBA-CGA-O1A
31	EK	1001	CYC	CAD-CBD-CGD-O2D
31	YP	1000	CYC	CAD-CBD-CGD-O1D
29	C4	203	PEB	CAB-CBB-CGB-O2B
29	H4	201	PEB	CAC-CBC-CGC-O2C
29	H4	201	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	BD	201	PEB	CAB-CBB-CGB-O1B
29	GD	203	PEB	CAB-CBB-CGB-O2B
29	ID	203	PEB	CAB-CBB-CGB-O2B
29	JD	201	PEB	CAB-CBB-CGB-O1B
31	C1	1001	CYC	CAD-CBD-CGD-O2D
31	D1	1003	CYC	CAD-CBD-CGD-O2D
31	E1	1001	CYC	CAD-CBD-CGD-O2D
31	K1	1001	CYC	CAD-CBD-CGD-O2D
31	M1	1001	CYC	CAD-CBD-CGD-O2D
31	CK	1001	CYC	CAD-CBD-CGD-O2D
31	GK	1001	CYC	CAD-CBD-CGD-O2D
31	IK	1001	CYC	CAD-CBD-CGD-O2D
31	KK	1001	CYC	CAD-CBD-CGD-O2D
31	MK	1001	CYC	CAD-CBD-CGD-O2D
29	B4	201	PEB	CAC-CBC-CGC-O2C
29	D4	201	PEB	CAC-CBC-CGC-O2C
29	F4	201	PEB	CAC-CBC-CGC-O2C
29	J4	201	PEB	CAC-CBC-CGC-O2C
29	L4	201	PEB	CAC-CBC-CGC-O2C
29	BD	201	PEB	CAC-CBC-CGC-O2C
29	HD	201	PEB	CAC-CBC-CGC-O2C
29	JD	201	PEB	CAC-CBC-CGC-O2C
29	LD	201	PEB	CAC-CBC-CGC-O2C
29	PF	201	PEB	CAC-CBC-CGC-O1C
29	RF	201	PEB	CAC-CBC-CGC-O1C
29	VF	201	PEB	CAC-CBC-CGC-O1C
29	YF	201	PEB	CAC-CBC-CGC-O1C
29	aF	201	PEB	CAC-CBC-CGC-O1C
29	cF	201	PEB	CAC-CBC-CGC-O1C
29	eF	201	PEB	CAC-CBC-CGC-O1C
29	gF	201	PEB	CAC-CBC-CGC-O1C
29	iF	201	PEB	CAC-CBC-CGC-O1C
29	kF	201	PEB	CAC-CBC-CGC-O1C
29	mF	201	PEB	CAC-CBC-CGC-O1C
29	PI	201	PEB	CAC-CBC-CGC-O1C
29	RI	201	PEB	CAC-CBC-CGC-O1C
29	TI	201	PEB	CAC-CBC-CGC-O1C
29	VI	201	PEB	CAC-CBC-CGC-O1C
29	YI	201	PEB	CAC-CBC-CGC-O1C
29	aI	201	PEB	CAC-CBC-CGC-O1C
29	cI	201	PEB	CAC-CBC-CGC-O1C
29	eI	201	PEB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
29	gI	201	PEB	CAC-CBC-CGC-O1C
29	iI	201	PEB	CAC-CBC-CGC-O1C
29	kI	201	PEB	CAC-CBC-CGC-O1C
29	mI	201	PEB	CAC-CBC-CGC-O1C
29	DD	201	PEB	CAC-CBC-CGC-O2C
29	FD	201	PEB	CAC-CBC-CGC-O2C
29	DO	202	PEB	CAB-CBB-CGB-O2B
29	D3	202	PEB	CAB-CBB-CGB-O2B
29	BG	203	PEB	CAC-CBC-CGC-O2C
29	DG	203	PEB	CAC-CBC-CGC-O2C
29	FG	203	PEB	CAC-CBC-CGC-O2C
29	HG	203	PEB	CAC-CBC-CGC-O2C
29	JG	203	PEB	CAC-CBC-CGC-O2C
29	LG	203	PEB	CAC-CBC-CGC-O2C
29	zL	501	PEB	CAB-CBB-CGB-O2B
29	BQ	203	PEB	CAC-CBC-CGC-O2C
29	DQ	203	PEB	CAC-CBC-CGC-O2C
29	FQ	203	PEB	CAC-CBC-CGC-O2C
29	HQ	203	PEB	CAC-CBC-CGC-O2C
29	JQ	203	PEB	CAC-CBC-CGC-O2C
29	LQ	202	PEB	CAC-CBC-CGC-O2C
30	AB	304	PUB	CAC-CBC-CGC-O2C
30	AM	304	PUB	CAC-CBC-CGC-O2C
29	PF	201	PEB	C4B-C3B-CAB-CBB
29	RF	201	PEB	C4B-C3B-CAB-CBB
29	VF	201	PEB	C4B-C3B-CAB-CBB
29	YF	201	PEB	C4B-C3B-CAB-CBB
29	aF	201	PEB	C4B-C3B-CAB-CBB
29	cF	201	PEB	C4B-C3B-CAB-CBB
29	eF	201	PEB	C4B-C3B-CAB-CBB
29	gF	201	PEB	C4B-C3B-CAB-CBB
29	iF	201	PEB	C4B-C3B-CAB-CBB
29	kF	201	PEB	C4B-C3B-CAB-CBB
29	mF	201	PEB	C4B-C3B-CAB-CBB
29	PI	201	PEB	C4B-C3B-CAB-CBB
29	RI	201	PEB	C4B-C3B-CAB-CBB
29	TI	201	PEB	C4B-C3B-CAB-CBB
29	VI	201	PEB	C4B-C3B-CAB-CBB
29	YI	201	PEB	C4B-C3B-CAB-CBB
29	aI	201	PEB	C4B-C3B-CAB-CBB
29	cI	201	PEB	C4B-C3B-CAB-CBB
29	eI	201	PEB	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	gI	201	PEB	C4B-C3B-CAB-CBB
29	iI	201	PEB	C4B-C3B-CAB-CBB
29	kI	201	PEB	C4B-C3B-CAB-CBB
29	mI	201	PEB	C4B-C3B-CAB-CBB
29	iF	201	PEB	CAB-CBB-CGB-O2B
29	kF	201	PEB	CAB-CBB-CGB-O2B
29	iI	201	PEB	CAB-CBB-CGB-O2B
29	kI	201	PEB	CAB-CBB-CGB-O2B
29	DA	202	PEB	C2B-C3B-CAB-CBB
29	JA	202	PEB	C2B-C3B-CAB-CBB
29	LA	202	PEB	C2B-C3B-CAB-CBB
29	DN	202	PEB	C2B-C3B-CAB-CBB
29	JN	202	PEB	C2B-C3B-CAB-CBB
29	LN	202	PEB	C2B-C3B-CAB-CBB
29	O7	201	PEB	CAB-CBB-CGB-O2B
29	h7	201	PEB	CAB-CBB-CGB-O2B
29	O9	201	PEB	CAB-CBB-CGB-O2B
29	h9	201	PEB	CAB-CBB-CGB-O2B
29	N2	203	PEB	CAB-CBB-CGB-O2B
29	P2	202	PEB	CAB-CBB-CGB-O2B
29	R2	203	PEB	CAB-CBB-CGB-O2B
29	T2	203	PEB	CAB-CBB-CGB-O2B
29	V2	203	PEB	CAB-CBB-CGB-O2B
29	X2	202	PEB	CAB-CBB-CGB-O2B
29	Q7	201	PEB	CAB-CBB-CGB-O2B
29	S7	201	PEB	CAB-CBB-CGB-O2B
29	U7	201	PEB	CAB-CBB-CGB-O2B
29	W7	201	PEB	CAB-CBB-CGB-O2B
29	Z7	201	PEB	CAB-CBB-CGB-O2B
29	b7	201	PEB	CAB-CBB-CGB-O2B
29	d7	201	PEB	CAB-CBB-CGB-O2B
29	f7	201	PEB	CAB-CBB-CGB-O2B
29	j7	201	PEB	CAB-CBB-CGB-O2B
29	l7	201	PEB	CAB-CBB-CGB-O2B
29	Q9	201	PEB	CAB-CBB-CGB-O2B
29	S9	201	PEB	CAB-CBB-CGB-O2B
29	U9	201	PEB	CAB-CBB-CGB-O2B
29	W9	201	PEB	CAB-CBB-CGB-O2B
29	Z9	201	PEB	CAB-CBB-CGB-O2B
29	b9	201	PEB	CAB-CBB-CGB-O2B
29	d9	201	PEB	CAB-CBB-CGB-O2B
29	f9	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	j9	201	PEB	CAB-CBB-CGB-O2B
29	l9	201	PEB	CAB-CBB-CGB-O2B
29	PF	201	PEB	CAB-CBB-CGB-O2B
29	RF	201	PEB	CAB-CBB-CGB-O2B
29	VF	201	PEB	CAB-CBB-CGB-O2B
29	YF	201	PEB	CAB-CBB-CGB-O2B
29	aF	201	PEB	CAB-CBB-CGB-O2B
29	cF	201	PEB	CAB-CBB-CGB-O2B
29	eF	201	PEB	CAB-CBB-CGB-O2B
29	gF	201	PEB	CAB-CBB-CGB-O2B
29	mF	201	PEB	CAB-CBB-CGB-O2B
29	PI	201	PEB	CAB-CBB-CGB-O2B
29	RI	201	PEB	CAB-CBB-CGB-O2B
29	TI	201	PEB	CAB-CBB-CGB-O2B
29	VI	201	PEB	CAB-CBB-CGB-O2B
29	YI	201	PEB	CAB-CBB-CGB-O2B
29	aI	201	PEB	CAB-CBB-CGB-O2B
29	cI	201	PEB	CAB-CBB-CGB-O2B
29	eI	201	PEB	CAB-CBB-CGB-O2B
29	gI	201	PEB	CAB-CBB-CGB-O2B
29	mI	201	PEB	CAB-CBB-CGB-O2B
29	zJ	501	PEB	CAB-CBB-CGB-O2B
29	NR	203	PEB	CAB-CBB-CGB-O2B
29	PR	202	PEB	CAB-CBB-CGB-O2B
29	RR	203	PEB	CAB-CBB-CGB-O2B
29	TR	203	PEB	CAB-CBB-CGB-O2B
29	VR	203	PEB	CAB-CBB-CGB-O2B
29	XR	203	PEB	CAB-CBB-CGB-O2B
30	AM	304	PUB	CAB-CBB-CGB-O2B
29	C4	201	PEB	CAB-CBB-CGB-O2B
30	AB	304	PUB	CAB-CBB-CGB-O2B
29	P7	202	PEB	C2C-CAC-CBC-CGC
29	R7	202	PEB	C2C-CAC-CBC-CGC
29	T7	202	PEB	C2C-CAC-CBC-CGC
29	V7	202	PEB	C2C-CAC-CBC-CGC
29	Y7	202	PEB	C2C-CAC-CBC-CGC
29	a7	202	PEB	C2C-CAC-CBC-CGC
29	c7	202	PEB	C2C-CAC-CBC-CGC
29	e7	202	PEB	C2C-CAC-CBC-CGC
29	g7	202	PEB	C2C-CAC-CBC-CGC
29	i7	202	PEB	C2C-CAC-CBC-CGC
29	k7	202	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	m7	202	PEB	C2C-CAC-CBC-CGC
29	P9	202	PEB	C2C-CAC-CBC-CGC
29	R9	202	PEB	C2C-CAC-CBC-CGC
29	T9	202	PEB	C2C-CAC-CBC-CGC
29	V9	202	PEB	C2C-CAC-CBC-CGC
29	Y9	202	PEB	C2C-CAC-CBC-CGC
29	a9	202	PEB	C2C-CAC-CBC-CGC
29	c9	202	PEB	C2C-CAC-CBC-CGC
29	e9	202	PEB	C2C-CAC-CBC-CGC
29	g9	202	PEB	C2C-CAC-CBC-CGC
29	i9	202	PEB	C2C-CAC-CBC-CGC
29	k9	202	PEB	C2C-CAC-CBC-CGC
29	m9	202	PEB	C2C-CAC-CBC-CGC
29	VF	201	PEB	C2C-CAC-CBC-CGC
29	VI	201	PEB	C2C-CAC-CBC-CGC
30	AB	305	PUB	C3B-CAB-CBB-CGB
30	BB	302	PUB	C3B-CAB-CBB-CGB
30	AM	305	PUB	C3B-CAB-CBB-CGB
30	BM	302	PUB	C3B-CAB-CBB-CGB
29	A7	304	PEB	C3B-CAB-CBB-CGB
29	A9	304	PEB	C3B-CAB-CBB-CGB
29	D7	1002	PEB	CAC-CBC-CGC-O2C
29	F7	1002	PEB	CAC-CBC-CGC-O2C
29	H7	1002	PEB	CAC-CBC-CGC-O2C
29	J7	1002	PEB	CAC-CBC-CGC-O2C
29	L7	1002	PEB	CAC-CBC-CGC-O2C
29	N7	1002	PEB	CAC-CBC-CGC-O2C
29	D9	1002	PEB	CAC-CBC-CGC-O2C
29	F9	1002	PEB	CAC-CBC-CGC-O2C
29	H9	1002	PEB	CAC-CBC-CGC-O2C
29	J9	1002	PEB	CAC-CBC-CGC-O2C
29	L9	1002	PEB	CAC-CBC-CGC-O2C
29	N9	1002	PEB	CAC-CBC-CGC-O2C
29	MD	201	PEB	CAB-CBB-CGB-O2B
29	xL	301	PEB	CAC-CBC-CGC-O2C
31	NK	1001	CYC	CAD-CBD-CGD-O2D
29	BA	202	PEB	C2B-C3B-CAB-CBB
29	FA	202	PEB	C2B-C3B-CAB-CBB
29	HA	202	PEB	C2B-C3B-CAB-CBB
29	BN	202	PEB	C2B-C3B-CAB-CBB
29	FN	202	PEB	C2B-C3B-CAB-CBB
29	HN	202	PEB	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
29	E4	201	PEB	CAB-CBB-CGB-O2B
29	G4	201	PEB	CAB-CBB-CGB-O2B
29	I4	201	PEB	CAB-CBB-CGB-O2B
29	K4	201	PEB	CAB-CBB-CGB-O2B
29	M4	201	PEB	CAB-CBB-CGB-O2B
29	dD	401	PEB	CAB-CBB-CGB-O2B
29	CD	201	PEB	CAB-CBB-CGB-O2B
29	GD	201	PEB	CAB-CBB-CGB-O2B
29	ID	201	PEB	CAB-CBB-CGB-O2B
29	KD	201	PEB	CAB-CBB-CGB-O2B
29	wJ	301	PEB	CAC-CBC-CGC-O2C
29	xJ	301	PEB	CAC-CBC-CGC-O2C
29	wL	301	PEB	CAC-CBC-CGC-O2C
31	D1	1001	CYC	CAD-CBD-CGD-O2D
31	F1	1001	CYC	CAD-CBD-CGD-O2D
31	H1	1001	CYC	CAD-CBD-CGD-O2D
31	J1	1001	CYC	CAD-CBD-CGD-O2D
31	L1	1001	CYC	CAD-CBD-CGD-O2D
31	N1	1001	CYC	CAD-CBD-CGD-O2D
31	DK	1001	CYC	CAD-CBD-CGD-O2D
31	FK	1001	CYC	CAD-CBD-CGD-O2D
31	HK	1001	CYC	CAD-CBD-CGD-O2D
31	JK	1001	CYC	CAD-CBD-CGD-O2D
31	LK	1001	CYC	CAD-CBD-CGD-O2D
29	I4	203	PEB	CAC-CBC-CGC-O2C
30	A7	303	PUB	CAC-CBC-CGC-O2C
30	A9	303	PUB	CAC-CBC-CGC-O2C
30	AF	303	PUB	CAC-CBC-CGC-O2C
30	AI	303	PUB	CAC-CBC-CGC-O2C
29	D3	202	PEB	C2D-C1D-CHC-C4C
29	B5	201	PEB	C2D-C1D-CHC-C4C
29	B5	202	PEB	C2D-C1D-CHC-C4C
29	F5	201	PEB	C2D-C1D-CHC-C4C
29	F5	202	PEB	C2D-C1D-CHC-C4C
29	G5	201	PEB	C2D-C1D-CHC-C4C
29	G5	202	PEB	C2D-C1D-CHC-C4C
29	H5	201	PEB	C2D-C1D-CHC-C4C
29	H5	202	PEB	C2D-C1D-CHC-C4C
29	L5	201	PEB	C2D-C1D-CHC-C4C
29	D7	1002	PEB	C2D-C1D-CHC-C4C
29	F7	1002	PEB	C2D-C1D-CHC-C4C
29	H7	1002	PEB	C2D-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	J7	1002	PEB	C2D-C1D-CHC-C4C
29	L7	1002	PEB	C2D-C1D-CHC-C4C
29	N7	1002	PEB	C2D-C1D-CHC-C4C
29	B8	201	PEB	C2D-C1D-CHC-C4C
29	F8	201	PEB	C2D-C1D-CHC-C4C
29	G8	201	PEB	C2D-C1D-CHC-C4C
29	G8	202	PEB	C2D-C1D-CHC-C4C
29	H8	201	PEB	C2D-C1D-CHC-C4C
29	H8	202	PEB	C2D-C1D-CHC-C4C
29	L8	201	PEB	C2D-C1D-CHC-C4C
29	D9	1002	PEB	C2D-C1D-CHC-C4C
29	F9	1002	PEB	C2D-C1D-CHC-C4C
29	H9	1002	PEB	C2D-C1D-CHC-C4C
29	J9	1002	PEB	C2D-C1D-CHC-C4C
29	L9	1002	PEB	C2D-C1D-CHC-C4C
29	N9	1002	PEB	C2D-C1D-CHC-C4C
29	AB	303	PEB	C2D-C1D-CHC-C4C
29	BB	301	PEB	C2D-C1D-CHC-C4C
29	AF	305	PEB	C2D-C1D-CHC-C4C
29	AI	305	PEB	C2D-C1D-CHC-C4C
29	AM	303	PEB	C2D-C1D-CHC-C4C
29	BM	301	PEB	C2D-C1D-CHC-C4C
29	DO	202	PEB	C2D-C1D-CHC-C4C
30	BB	302	PUB	C3A-C4A-CHA-C1B
30	BM	302	PUB	C3A-C4A-CHA-C1B
29	BB	301	PEB	CAC-CBC-CGC-O2C
29	BM	301	PEB	CAC-CBC-CGC-O2C
29	BB	301	PEB	CAB-CBB-CGB-O2B
29	BM	301	PEB	CAB-CBB-CGB-O2B
31	C1	1001	CYC	CAD-CBD-CGD-O1D
31	D1	1003	CYC	CAD-CBD-CGD-O1D
31	E1	1001	CYC	CAD-CBD-CGD-O1D
31	I1	1001	CYC	CAD-CBD-CGD-O1D
31	K1	1001	CYC	CAD-CBD-CGD-O1D
31	M1	1001	CYC	CAD-CBD-CGD-O1D
31	CK	1001	CYC	CAD-CBD-CGD-O1D
31	EK	1001	CYC	CAD-CBD-CGD-O1D
31	GK	1001	CYC	CAD-CBD-CGD-O1D
31	IK	1001	CYC	CAD-CBD-CGD-O1D
31	KK	1001	CYC	CAD-CBD-CGD-O1D
31	MK	1001	CYC	CAD-CBD-CGD-O1D
29	M3	201	PEB	CAC-CBC-CGC-O2C

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Mol	Chain	Res	Type	Atoms
29	N3	201	PEB	CAC-CBC-CGC-O2C
29	MO	201	PEB	CAC-CBC-CGC-O2C
30	MG	403	PUB	CAC-CBC-CGC-O2C
30	MQ	405	PUB	CAC-CBC-CGC-O2C
29	NO	201	PEB	CAC-CBC-CGC-O2C
30	A7	303	PUB	CAC-CBC-CGC-O1C
30	A9	303	PUB	CAC-CBC-CGC-O1C
29	P1	201	PEB	CAB-CBB-CGB-O2B
29	R1	201	PEB	CAB-CBB-CGB-O2B
29	T1	201	PEB	CAB-CBB-CGB-O2B
29	V1	201	PEB	CAB-CBB-CGB-O2B
29	Y1	201	PEB	CAB-CBB-CGB-O2B
29	a1	201	PEB	CAB-CBB-CGB-O2B
29	c1	201	PEB	CAB-CBB-CGB-O2B
29	e1	201	PEB	CAB-CBB-CGB-O2B
29	g1	201	PEB	CAB-CBB-CGB-O2B
29	i1	201	PEB	CAB-CBB-CGB-O2B
29	k1	201	PEB	CAB-CBB-CGB-O2B
29	m1	201	PEB	CAB-CBB-CGB-O2B
29	V7	203	PEB	CAB-CBB-CGB-O2B
29	i7	203	PEB	CAB-CBB-CGB-O2B
29	V9	203	PEB	CAB-CBB-CGB-O2B
29	i9	203	PEB	CAB-CBB-CGB-O2B
29	PF	201	PEB	CAC-CBC-CGC-O2C
29	RF	201	PEB	CAC-CBC-CGC-O2C
29	YF	201	PEB	CAC-CBC-CGC-O2C
29	aF	201	PEB	CAC-CBC-CGC-O2C
29	cF	201	PEB	CAC-CBC-CGC-O2C
29	gF	201	PEB	CAC-CBC-CGC-O2C
29	iF	201	PEB	CAC-CBC-CGC-O2C
29	mF	201	PEB	CAC-CBC-CGC-O2C
29	PI	201	PEB	CAC-CBC-CGC-O2C
29	RI	201	PEB	CAC-CBC-CGC-O2C
29	YI	201	PEB	CAC-CBC-CGC-O2C
29	aI	201	PEB	CAC-CBC-CGC-O2C
29	cI	201	PEB	CAC-CBC-CGC-O2C
29	gI	201	PEB	CAC-CBC-CGC-O2C
29	iI	201	PEB	CAC-CBC-CGC-O2C
29	mI	201	PEB	CAC-CBC-CGC-O2C
29	PK	201	PEB	CAB-CBB-CGB-O2B
29	RK	201	PEB	CAB-CBB-CGB-O2B
29	TK	201	PEB	CAB-CBB-CGB-O2B

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Mol	Chain	Res	Type	Atoms
29	VK	201	PEB	CAB-CBB-CGB-O2B
29	YK	201	PEB	CAB-CBB-CGB-O2B
29	aK	201	PEB	CAB-CBB-CGB-O2B
29	cK	201	PEB	CAB-CBB-CGB-O2B
29	eK	201	PEB	CAB-CBB-CGB-O2B
29	gK	201	PEB	CAB-CBB-CGB-O2B
29	iK	201	PEB	CAB-CBB-CGB-O2B
29	kK	201	PEB	CAB-CBB-CGB-O2B
29	mK	201	PEB	CAB-CBB-CGB-O2B
29	P7	203	PEB	CAB-CBB-CGB-O2B
29	R7	203	PEB	CAB-CBB-CGB-O2B
29	T7	203	PEB	CAB-CBB-CGB-O2B
29	Y7	203	PEB	CAB-CBB-CGB-O2B
29	a7	203	PEB	CAB-CBB-CGB-O2B
29	c7	203	PEB	CAB-CBB-CGB-O2B
29	e7	203	PEB	CAB-CBB-CGB-O2B
29	g7	203	PEB	CAB-CBB-CGB-O2B
29	k7	203	PEB	CAB-CBB-CGB-O2B
29	m7	203	PEB	CAB-CBB-CGB-O2B
29	P9	203	PEB	CAB-CBB-CGB-O2B
29	R9	203	PEB	CAB-CBB-CGB-O2B
29	T9	203	PEB	CAB-CBB-CGB-O2B
29	Y9	203	PEB	CAB-CBB-CGB-O2B
29	a9	203	PEB	CAB-CBB-CGB-O2B
29	c9	203	PEB	CAB-CBB-CGB-O2B
29	e9	203	PEB	CAB-CBB-CGB-O2B
29	g9	203	PEB	CAB-CBB-CGB-O2B
29	k9	203	PEB	CAB-CBB-CGB-O2B
29	m9	203	PEB	CAB-CBB-CGB-O2B
29	VF	201	PEB	CAC-CBC-CGC-O2C
29	eF	201	PEB	CAC-CBC-CGC-O2C
29	kF	201	PEB	CAC-CBC-CGC-O2C
29	TI	201	PEB	CAC-CBC-CGC-O2C
29	VI	201	PEB	CAC-CBC-CGC-O2C
29	eI	201	PEB	CAC-CBC-CGC-O2C
29	kI	201	PEB	CAC-CBC-CGC-O2C
30	AB	304	PUB	CAC-CBC-CGC-O1C
30	AM	304	PUB	CAC-CBC-CGC-O1C
29	J8	201	PEB	CAB-CBB-CGB-O2B
29	BB	301	PEB	CAC-CBC-CGC-O1C
29	BM	301	PEB	CAC-CBC-CGC-O1C
30	MG	403	PUB	CAC-CBC-CGC-O1C

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Mol	Chain	Res	Type	Atoms
30	MQ	405	PUB	CAC-CBC-CGC-O1C
29	P1	202	PEB	C2C-CAC-CBC-CGC
29	R1	202	PEB	C2C-CAC-CBC-CGC
29	U1	201	PEB	C2C-CAC-CBC-CGC
29	V1	202	PEB	C2C-CAC-CBC-CGC
29	Z1	201	PEB	C2C-CAC-CBC-CGC
29	a1	202	PEB	C2C-CAC-CBC-CGC
29	c1	202	PEB	C2C-CAC-CBC-CGC
29	e1	202	PEB	C2C-CAC-CBC-CGC
29	g1	202	PEB	C2C-CAC-CBC-CGC
29	i1	202	PEB	C2C-CAC-CBC-CGC
29	j1	203	PEB	C2C-CAC-CBC-CGC
29	k1	202	PEB	C2C-CAC-CBC-CGC
29	C4	202	PEB	ND-C1D-CHC-C4C
29	C4	203	PEB	ND-C1D-CHC-C4C
29	E4	202	PEB	ND-C1D-CHC-C4C
29	E4	203	PEB	ND-C1D-CHC-C4C
29	G4	202	PEB	ND-C1D-CHC-C4C
29	G4	203	PEB	ND-C1D-CHC-C4C
29	I4	202	PEB	ND-C1D-CHC-C4C
29	K4	202	PEB	ND-C1D-CHC-C4C
29	K4	203	PEB	ND-C1D-CHC-C4C
29	M4	202	PEB	ND-C1D-CHC-C4C
29	A7	304	PEB	ND-C1D-CHC-C4C
29	A7	305	PEB	ND-C1D-CHC-C4C
29	A9	304	PEB	ND-C1D-CHC-C4C
29	A9	305	PEB	ND-C1D-CHC-C4C
29	CB	201	PEB	C2C-CAC-CBC-CGC
29	CB	202	PEB	C2C-CAC-CBC-CGC
29	EB	201	PEB	C2C-CAC-CBC-CGC
29	EB	202	PEB	C2C-CAC-CBC-CGC
29	GB	201	PEB	C2C-CAC-CBC-CGC
29	GB	202	PEB	C2C-CAC-CBC-CGC
29	IB	201	PEB	C2C-CAC-CBC-CGC
29	IB	202	PEB	C2C-CAC-CBC-CGC
29	KB	201	PEB	C2C-CAC-CBC-CGC
29	KB	202	PEB	C2C-CAC-CBC-CGC
29	MB	201	PEB	C2C-CAC-CBC-CGC
29	MB	202	PEB	C2C-CAC-CBC-CGC
29	OB	201	PEB	C2C-CAC-CBC-CGC
29	OB	202	PEB	C2C-CAC-CBC-CGC
29	QB	203	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	QB	204	PEB	C2C-CAC-CBC-CGC
29	SB	201	PEB	C2C-CAC-CBC-CGC
29	SB	202	PEB	C2C-CAC-CBC-CGC
29	UB	201	PEB	C2C-CAC-CBC-CGC
29	UB	202	PEB	C2C-CAC-CBC-CGC
29	WB	201	PEB	C2C-CAC-CBC-CGC
29	WB	202	PEB	C2C-CAC-CBC-CGC
29	YB	202	PEB	C2C-CAC-CBC-CGC
29	YB	203	PEB	C2C-CAC-CBC-CGC
29	aB	201	PEB	C2C-CAC-CBC-CGC
29	aB	202	PEB	C2C-CAC-CBC-CGC
29	dB	201	PEB	C2C-CAC-CBC-CGC
29	dB	202	PEB	C2C-CAC-CBC-CGC
29	fB	201	PEB	C2C-CAC-CBC-CGC
29	fB	202	PEB	C2C-CAC-CBC-CGC
29	hB	201	PEB	C2C-CAC-CBC-CGC
29	hB	202	PEB	C2C-CAC-CBC-CGC
29	jB	201	PEB	C2C-CAC-CBC-CGC
29	jB	202	PEB	C2C-CAC-CBC-CGC
29	lB	201	PEB	C2C-CAC-CBC-CGC
29	lB	202	PEB	C2C-CAC-CBC-CGC
29	BC	203	PEB	ND-C1D-CHC-C4C
29	DC	202	PEB	ND-C1D-CHC-C4C
29	FC	203	PEB	ND-C1D-CHC-C4C
29	HC	203	PEB	ND-C1D-CHC-C4C
29	JC	202	PEB	ND-C1D-CHC-C4C
29	LC	203	PEB	ND-C1D-CHC-C4C
29	CD	202	PEB	ND-C1D-CHC-C4C
29	CD	203	PEB	ND-C1D-CHC-C4C
29	ED	201	PEB	ND-C1D-CHC-C4C
29	ED	202	PEB	ND-C1D-CHC-C4C
29	GD	202	PEB	ND-C1D-CHC-C4C
29	GD	203	PEB	ND-C1D-CHC-C4C
29	ID	202	PEB	ND-C1D-CHC-C4C
29	ID	203	PEB	ND-C1D-CHC-C4C
29	KD	202	PEB	ND-C1D-CHC-C4C
29	KD	203	PEB	ND-C1D-CHC-C4C
29	MD	202	PEB	ND-C1D-CHC-C4C
29	MD	203	PEB	ND-C1D-CHC-C4C
29	BE	203	PEB	ND-C1D-CHC-C4C
29	DE	202	PEB	ND-C1D-CHC-C4C
29	FE	203	PEB	ND-C1D-CHC-C4C

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Mol	Chain	Res	Type	Atoms
29	HE	203	PEB	ND-C1D-CHC-C4C
29	JE	202	PEB	ND-C1D-CHC-C4C
29	LE	203	PEB	ND-C1D-CHC-C4C
29	PF	201	PEB	C2C-CAC-CBC-CGC
29	RF	201	PEB	C2C-CAC-CBC-CGC
29	YF	201	PEB	C2C-CAC-CBC-CGC
29	aF	201	PEB	C2C-CAC-CBC-CGC
29	cF	201	PEB	C2C-CAC-CBC-CGC
29	eF	201	PEB	C2C-CAC-CBC-CGC
29	gF	201	PEB	C2C-CAC-CBC-CGC
29	iF	201	PEB	C2C-CAC-CBC-CGC
29	kF	201	PEB	C2C-CAC-CBC-CGC
29	mF	201	PEB	C2C-CAC-CBC-CGC
29	MG	405	PEB	ND-C1D-CHC-C4C
29	PI	201	PEB	C2C-CAC-CBC-CGC
29	RI	201	PEB	C2C-CAC-CBC-CGC
29	TI	201	PEB	C2C-CAC-CBC-CGC
29	YI	201	PEB	C2C-CAC-CBC-CGC
29	aI	201	PEB	C2C-CAC-CBC-CGC
29	cI	201	PEB	C2C-CAC-CBC-CGC
29	eI	201	PEB	C2C-CAC-CBC-CGC
29	gI	201	PEB	C2C-CAC-CBC-CGC
29	iI	201	PEB	C2C-CAC-CBC-CGC
29	kI	201	PEB	C2C-CAC-CBC-CGC
29	mI	201	PEB	C2C-CAC-CBC-CGC
29	PK	202	PEB	C2C-CAC-CBC-CGC
29	RK	202	PEB	C2C-CAC-CBC-CGC
29	UK	201	PEB	C2C-CAC-CBC-CGC
29	VK	202	PEB	C2C-CAC-CBC-CGC
29	ZK	201	PEB	C2C-CAC-CBC-CGC
29	aK	202	PEB	C2C-CAC-CBC-CGC
29	cK	202	PEB	C2C-CAC-CBC-CGC
29	eK	202	PEB	C2C-CAC-CBC-CGC
29	gK	202	PEB	C2C-CAC-CBC-CGC
29	iK	202	PEB	C2C-CAC-CBC-CGC
29	jK	203	PEB	C2C-CAC-CBC-CGC
29	kK	202	PEB	C2C-CAC-CBC-CGC
29	CM	201	PEB	C2C-CAC-CBC-CGC
29	CM	202	PEB	C2C-CAC-CBC-CGC
29	EM	201	PEB	C2C-CAC-CBC-CGC
29	EM	202	PEB	C2C-CAC-CBC-CGC
29	GM	201	PEB	C2C-CAC-CBC-CGC

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Mol	Chain	Res	Type	Atoms
29	GM	202	PEB	C2C-CAC-CBC-CGC
29	IM	201	PEB	C2C-CAC-CBC-CGC
29	IM	202	PEB	C2C-CAC-CBC-CGC
29	KM	201	PEB	C2C-CAC-CBC-CGC
29	KM	202	PEB	C2C-CAC-CBC-CGC
29	MM	201	PEB	C2C-CAC-CBC-CGC
29	MM	202	PEB	C2C-CAC-CBC-CGC
29	OM	201	PEB	C2C-CAC-CBC-CGC
29	OM	202	PEB	C2C-CAC-CBC-CGC
29	QM	203	PEB	C2C-CAC-CBC-CGC
29	QM	204	PEB	C2C-CAC-CBC-CGC
29	SM	201	PEB	C2C-CAC-CBC-CGC
29	SM	202	PEB	C2C-CAC-CBC-CGC
29	UM	201	PEB	C2C-CAC-CBC-CGC
29	WM	201	PEB	C2C-CAC-CBC-CGC
29	WM	202	PEB	C2C-CAC-CBC-CGC
29	YM	202	PEB	C2C-CAC-CBC-CGC
29	YM	203	PEB	C2C-CAC-CBC-CGC
29	aM	201	PEB	C2C-CAC-CBC-CGC
29	aM	202	PEB	C2C-CAC-CBC-CGC
29	dM	201	PEB	C2C-CAC-CBC-CGC
29	dM	202	PEB	C2C-CAC-CBC-CGC
29	fM	201	PEB	C2C-CAC-CBC-CGC
29	fM	202	PEB	C2C-CAC-CBC-CGC
29	hM	201	PEB	C2C-CAC-CBC-CGC
29	hM	202	PEB	C2C-CAC-CBC-CGC
29	jM	201	PEB	C2C-CAC-CBC-CGC
29	jM	202	PEB	C2C-CAC-CBC-CGC
29	lM	201	PEB	C2C-CAC-CBC-CGC
29	lM	202	PEB	C2C-CAC-CBC-CGC
29	MQ	401	PEB	C2C-CAC-CBC-CGC
29	MQ	407	PEB	ND-C1D-CHC-C4C
30	A7	303	PUB	NA-C4A-CHA-C1B
30	A9	303	PUB	NA-C4A-CHA-C1B
29	J5	201	PEB	CAB-CBB-CGB-O2B
30	wJ	304	PUB	CAB-CBB-CGB-O2B
30	xJ	304	PUB	CAB-CBB-CGB-O2B
30	wL	304	PUB	CAB-CBB-CGB-O2B
30	xL	304	PUB	CAB-CBB-CGB-O2B
29	P7	203	PEB	CAB-CBB-CGB-O1B
29	R7	203	PEB	CAB-CBB-CGB-O1B
29	T7	203	PEB	CAB-CBB-CGB-O1B

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Mol	Chain	Res	Type	Atoms
29	V7	203	PEB	CAB-CBB-CGB-O1B
29	Y7	203	PEB	CAB-CBB-CGB-O1B
29	a7	203	PEB	CAB-CBB-CGB-O1B
29	c7	203	PEB	CAB-CBB-CGB-O1B
29	e7	203	PEB	CAB-CBB-CGB-O1B
29	g7	203	PEB	CAB-CBB-CGB-O1B
29	i7	203	PEB	CAB-CBB-CGB-O1B
29	k7	203	PEB	CAB-CBB-CGB-O1B
29	m7	203	PEB	CAB-CBB-CGB-O1B
29	P9	203	PEB	CAB-CBB-CGB-O1B
29	R9	203	PEB	CAB-CBB-CGB-O1B
29	T9	203	PEB	CAB-CBB-CGB-O1B
29	V9	203	PEB	CAB-CBB-CGB-O1B
29	Y9	203	PEB	CAB-CBB-CGB-O1B
29	a9	203	PEB	CAB-CBB-CGB-O1B
29	c9	203	PEB	CAB-CBB-CGB-O1B
29	e9	203	PEB	CAB-CBB-CGB-O1B
29	g9	203	PEB	CAB-CBB-CGB-O1B
29	i9	203	PEB	CAB-CBB-CGB-O1B
29	k9	203	PEB	CAB-CBB-CGB-O1B
29	m9	203	PEB	CAB-CBB-CGB-O1B
29	BA	202	PEB	C4B-C3B-CAB-CBB
29	DA	202	PEB	C4B-C3B-CAB-CBB
29	FA	202	PEB	C4B-C3B-CAB-CBB
29	HA	202	PEB	C4B-C3B-CAB-CBB
29	JA	202	PEB	C4B-C3B-CAB-CBB
29	LA	202	PEB	C4B-C3B-CAB-CBB
29	BN	202	PEB	C4B-C3B-CAB-CBB
29	DN	202	PEB	C4B-C3B-CAB-CBB
29	FN	202	PEB	C4B-C3B-CAB-CBB
29	HN	202	PEB	C4B-C3B-CAB-CBB
29	JN	202	PEB	C4B-C3B-CAB-CBB
29	LN	202	PEB	C4B-C3B-CAB-CBB
29	B4	202	PEB	C3B-CAB-CBB-CGB
29	D4	202	PEB	C3B-CAB-CBB-CGB
29	F4	202	PEB	C3B-CAB-CBB-CGB
29	H4	202	PEB	C3B-CAB-CBB-CGB
29	J4	202	PEB	C3B-CAB-CBB-CGB
29	L4	202	PEB	C3B-CAB-CBB-CGB
29	BD	202	PEB	C3B-CAB-CBB-CGB
29	DD	202	PEB	C3B-CAB-CBB-CGB
29	FD	202	PEB	C3B-CAB-CBB-CGB

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Mol	Chain	Res	Type	Atoms
29	HD	202	PEB	C3B-CAB-CBB-CGB
29	JD	202	PEB	C3B-CAB-CBB-CGB
29	LD	202	PEB	C3B-CAB-CBB-CGB
29	M3	201	PEB	CAC-CBC-CGC-O1C
29	N3	201	PEB	CAC-CBC-CGC-O1C
29	MO	201	PEB	CAC-CBC-CGC-O1C
29	NO	201	PEB	CAC-CBC-CGC-O1C

There are no ring outliers.

1036 monomers are involved in 5508 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	jB	201	PEB	1	0
29	B5	203	PEB	2	0
29	kJ	202	PEB	2	0
29	fB	202	PEB	8	0
31	TP	1001	CYC	2	0
29	GJ	201	PEB	14	0
29	O2	201	PEB	6	0
31	L7	1001	CYC	4	0
29	C5	201	PEB	4	0
29	KO	202	PEB	6	0
29	G5	202	PEB	1	0
29	W7	201	PEB	2	0
29	nJ	201	PEB	10	0
29	JJ	201	PEB	1	0
29	I8	202	PEB	14	0
29	AL	202	PEB	29	0
29	CO	202	PEB	1	0
31	xP	1001	CYC	4	0
29	EC	201	PEB	3	0
29	J1	1002	PEB	6	0
29	KB	202	PEB	7	0
29	g1	201	PEB	3	0
31	UP	1001	CYC	2	0
29	V9	203	PEB	3	0
29	eM	201	PEB	2	0
29	KE	203	PEB	4	0
30	MQ	404	PUB	9	0
29	uL	202	PEB	3	0
30	AI	303	PUB	1	0
29	kM	201	PEB	14	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
31	FF	1001	CYC	2	0
29	CJ	201	PEB	6	0
29	FK	1002	PEB	7	0
29	KL	202	PEB	8	0
29	rJ	203	PEB	1	0
29	mK	201	PEB	1	0
29	gB	203	PEB	12	0
29	FM	203	PEB	1	0
29	F4	202	PEB	3	0
29	D4	202	PEB	4	0
29	BM	301	PEB	25	0
31	jP	1001	CYC	1	0
29	NB	201	PEB	3	0
29	R2	203	PEB	4	0
29	EB	202	PEB	5	0
29	IJ	203	PEB	3	0
29	ZK	203	PEB	4	0
29	KD	203	PEB	17	0
29	Q2	202	PEB	17	0
29	NL	201	PEB	1	0
29	V7	202	PEB	4	0
29	O2	202	PEB	19	0
29	B8	201	PEB	2	0
29	AK	301	PEB	2	0
29	hM	201	PEB	1	0
29	nJ	202	PEB	6	0
29	JL	201	PEB	1	0
29	nL	201	PEB	3	0
29	HF	1002	PEB	13	0
29	T2	203	PEB	6	0
29	pJ	201	PEB	1	0
29	HK	1002	PEB	33	0
29	GD	203	PEB	30	0
29	sJ	202	PEB	2	0
29	CG	201	PEB	3	0
30	yL	303	PUB	16	0
29	AQ	201	PEB	3	0
29	DC	201	PEB	1	0
29	V2	201	PEB	15	0
31	J9	1001	CYC	7	0
29	JA	203	PEB	3	0
29	K3	202	PEB	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	DQ	203	PEB	37	0
29	V2	203	PEB	11	0
29	T9	202	PEB	4	0
29	RB	203	PEB	15	0
29	UF	203	PEB	1	0
31	hP	1001	CYC	1	0
29	AJ	202	PEB	27	0
29	CC	201	PEB	2	0
29	eL	202	PEB	3	0
29	M4	202	PEB	13	0
29	NM	201	PEB	3	0
29	TK	201	PEB	2	0
29	BN	203	PEB	4	0
31	pP	1001	CYC	4	0
29	H5	201	PEB	1	0
29	AJ	201	PEB	1	0
29	EM	202	PEB	3	0
29	FJ	201	PEB	7	0
29	EL	201	PEB	1	0
29	lB	202	PEB	5	0
29	P9	201	PEB	2	0
31	DP	1001	CYC	2	0
29	DB	201	PEB	5	0
29	S9	201	PEB	2	0
29	M3	203	PEB	2	0
29	HE	202	PEB	2	0
29	JL	202	PEB	1	0
31	D1	1001	CYC	1	0
29	W1	202	PEB	9	0
29	wJ	303	PEB	5	0
29	BD	202	PEB	3	0
29	jM	201	PEB	1	0
31	J7	1001	CYC	6	0
29	F5	201	PEB	2	0
29	HE	201	PEB	3	0
29	i1	201	PEB	1	0
29	UJ	201	PEB	4	0
29	wL	301	PEB	2	0
29	DD	201	PEB	7	0
29	ZM	201	PEB	3	0
29	IO	201	PEB	1	0
31	wP	1001	CYC	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	NK	1002	PEB	14	0
29	R9	201	PEB	1	0
29	PM	201	PEB	2	0
29	F9	1002	PEB	8	0
29	H8	203	PEB	2	0
29	jF	202	PEB	1	0
29	TJ	202	PEB	1	0
29	MG	401	PEB	2	0
29	JQ	203	PEB	5	0
29	xL	303	PEB	5	0
29	ZB	202	PEB	4	0
29	KN	202	PEB	1	0
29	h7	201	PEB	2	0
29	eR	401	PEB	27	0
29	ZB	201	PEB	3	0
29	bK	202	PEB	3	0
29	PR	201	PEB	4	0
29	j7	201	PEB	2	0
29	J3	201	PEB	1	0
29	mM	203	PEB	3	0
29	eM	202	PEB	1	0
29	mB	201	PEB	2	0
29	JN	202	PEB	2	0
29	DJ	201	PEB	1	0
29	L7	1002	PEB	7	0
29	AB	301	PEB	1	0
29	X2	201	PEB	4	0
29	DQ	202	PEB	7	0
29	DQ	201	PEB	3	0
29	VL	201	PEB	1	0
29	bJ	202	PEB	3	0
29	WJ	201	PEB	2	0
29	bJ	201	PEB	1	0
29	LQ	202	PEB	34	0
29	kK	201	PEB	1	0
29	LQ	201	PEB	5	0
30	MG	403	PUB	13	0
29	fK	202	PEB	2	0
31	C1	1001	CYC	3	0
29	LC	201	PEB	7	0
29	uJ	201	PEB	2	0
29	mF	202	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	DO	202	PEB	32	0
29	H3	201	PEB	1	0
29	B8	202	PEB	1	0
29	LN	202	PEB	2	0
29	F5	202	PEB	1	0
29	b9	201	PEB	2	0
29	LN	201	PEB	3	0
29	H1	1002	PEB	31	0
29	FD	202	PEB	3	0
29	SI	202	PEB	36	0
29	BA	201	PEB	3	0
31	I7	1001	CYC	4	0
29	m7	202	PEB	2	0
29	EN	202	PEB	1	0
29	lJ	202	PEB	6	0
29	I3	202	PEB	8	0
29	EA	201	PEB	3	0
29	VM	203	PEB	1	0
29	MR	202	PEB	28	0
29	DL	201	PEB	1	0
29	OF	202	PEB	1	0
29	CG	202	PEB	3	0
29	hJ	201	PEB	1	0
31	G7	1001	CYC	2	0
29	DF	1002	PEB	14	0
30	xJ	305	PUB	3	0
29	B3	202	PEB	2	0
29	fJ	201	PEB	1	0
29	jL	201	PEB	2	0
29	dJ	201	PEB	1	0
29	aB	202	PEB	8	0
31	D1	1003	CYC	2	0
29	U9	201	PEB	2	0
29	NM	202	PEB	2	0
29	l9	201	PEB	2	0
29	hL	202	PEB	1	0
29	TB	203	PEB	3	0
29	D3	201	PEB	1	0
29	MD	202	PEB	13	0
29	D7	1002	PEB	7	0
29	T1	201	PEB	2	0
29	RL	201	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	CD	203	PEB	27	0
29	I5	203	PEB	2	0
29	FJ	202	PEB	5	0
29	kL	201	PEB	7	0
31	1P	1002	CYC	2	0
29	oL	202	PEB	2	0
29	hL	201	PEB	1	0
29	BG	201	PEB	20	0
29	LI	1002	PEB	22	0
29	NO	203	PEB	2	0
29	A7	304	PEB	5	0
29	N9	1002	PEB	10	0
29	JM	201	PEB	2	0
29	zJ	501	PEB	13	0
29	NJ	201	PEB	1	0
29	pJ	202	PEB	13	0
29	Y9	201	PEB	1	0
29	L4	201	PEB	8	0
29	AK	303	PEB	2	0
29	gK	202	PEB	3	0
29	IO	202	PEB	8	0
29	i7	201	PEB	1	0
29	AM	302	PEB	1	0
29	MG	405	PEB	3	0
29	HM	203	PEB	2	0
29	L9	1002	PEB	8	0
29	T2	202	PEB	3	0
29	g7	202	PEB	2	0
31	uP	1001	CYC	1	0
29	J4	201	PEB	24	0
29	R2	201	PEB	2	0
29	IG	202	PEB	2	0
29	P7	202	PEB	1	0
29	f1	202	PEB	2	0
31	PP	1001	CYC	7	0
29	cL	201	PEB	12	0
31	IK	1001	CYC	1	0
29	CL	202	PEB	2	0
31	NF	1001	CYC	2	0
29	L3	201	PEB	1	0
29	A9	304	PEB	5	0
29	MQ	402	PEB	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	FB	203	PEB	2	0
29	I4	203	PEB	31	0
29	KN	201	PEB	5	0
29	MJ	202	PEB	2	0
29	FL	202	PEB	5	0
29	FQ	203	PEB	75	0
29	oJ	201	PEB	2	0
29	CL	201	PEB	6	0
29	A8	201	PEB	1	0
29	S2	201	PEB	17	0
29	G8	202	PEB	1	0
29	E4	201	PEB	19	0
29	G8	201	PEB	1	0
29	HO	202	PEB	3	0
29	NO	201	PEB	1	0
29	U2	201	PEB	4	0
29	SL	202	PEB	2	0
31	E9	1001	CYC	14	0
29	B8	203	PEB	2	0
29	BN	202	PEB	3	0
29	BN	201	PEB	3	0
30	xL	304	PUB	2	0
29	BL	201	PEB	2	0
31	M1	1001	CYC	6	0
29	WR	202	PEB	36	0
29	JI	1002	PEB	15	0
29	I3	203	PEB	1	0
29	HG	201	PEB	1	0
29	hJ	202	PEB	1	0
29	cM	201	PEB	2	0
29	tL	201	PEB	1	0
29	MM	202	PEB	7	0
29	xL	301	PEB	3	0
29	IM	202	PEB	5	0
29	HC	201	PEB	1	0
29	QJ	201	PEB	1	0
29	VR	202	PEB	9	0
29	KQ	201	PEB	3	0
31	YP	1000	CYC	2	0
29	OR	202	PEB	19	0
29	S7	201	PEB	2	0
29	R7	202	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	j1	202	PEB	2	0
29	TF	202	PEB	2	0
29	l9	202	PEB	6	0
29	Y7	201	PEB	1	0
29	IM	202	PEB	4	0
29	KG	202	PEB	4	0
29	iM	203	PEB	2	0
29	DA	201	PEB	5	0
29	cI	202	PEB	1	0
29	UK	203	PEB	2	0
29	JB	203	PEB	4	0
29	mB	203	PEB	1	0
29	GO	202	PEB	1	0
29	NF	1002	PEB	16	0
30	xL	305	PUB	3	0
29	Z9	201	PEB	3	0
29	MG	404	PEB	11	0
29	xL	302	PEB	2	0
29	KG	201	PEB	3	0
29	LM	203	PEB	3	0
29	H5	202	PEB	2	0
31	KI	1001	CYC	2	0
31	JI	1001	CYC	3	0
29	ID	202	PEB	21	0
29	eF	202	PEB	1	0
30	MQ	405	PUB	10	0
29	b1	202	PEB	2	0
29	OL	202	PEB	2	0
31	MK	1001	CYC	5	0
29	BQ	201	PEB	2	0
29	SK	202	PEB	3	0
29	dJ	202	PEB	2	0
29	bL	203	PEB	1	0
29	ZM	203	PEB	2	0
30	AF	303	PUB	1	0
31	I9	1001	CYC	4	0
29	AG	202	PEB	3	0
29	C4	203	PEB	36	0
29	sJ	203	PEB	2	0
29	DC	202	PEB	1	0
29	GL	202	PEB	4	0
29	G4	201	PEB	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	LB	201	PEB	2	0
29	Q7	202	PEB	6	0
29	fl	202	PEB	1	0
29	rL	201	PEB	3	0
31	DK	1001	CYC	1	0
29	lK	202	PEB	2	0
31	SP	1001	CYC	1	0
29	mJ	202	PEB	3	0
29	fJ	203	PEB	1	0
29	OJ	202	PEB	3	0
29	IL	203	PEB	4	0
29	W2	201	PEB	4	0
29	PK	201	PEB	2	0
29	TJ	203	PEB	1	0
29	JE	202	PEB	1	0
29	LA	201	PEB	3	0
29	GL	201	PEB	14	0
29	Z1	203	PEB	4	0
29	QR	202	PEB	39	0
29	Q7	201	PEB	2	0
29	eJ	202	PEB	2	0
29	K4	202	PEB	26	0
29	K4	201	PEB	4	0
29	Z7	201	PEB	2	0
29	qJ	202	PEB	2	0
29	CJ	202	PEB	3	0
29	A5	202	PEB	7	0
29	GQ	202	PEB	2	0
29	JG	201	PEB	1	0
29	G8	203	PEB	3	0
29	DG	201	PEB	4	0
29	iM	201	PEB	4	0
29	P2	202	PEB	4	0
29	SF	202	PEB	29	0
29	qJ	201	PEB	3	0
29	IJ	201	PEB	16	0
29	EQ	201	PEB	3	0
29	RR	201	PEB	3	0
31	G9	1001	CYC	2	0
29	cL	202	PEB	17	0
29	L8	202	PEB	1	0
29	SJ	201	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	N2	203	PEB	1	0
29	N1	1002	PEB	13	0
30	yJ	303	PUB	13	0
29	lL	202	PEB	7	0
29	WB	202	PEB	8	0
29	aL	202	PEB	2	0
31	FK	1001	CYC	1	0
29	AB	302	PEB	2	0
29	RJ	202	PEB	2	0
29	D1	1002	PEB	12	0
29	DA	202	PEB	3	0
29	U1	203	PEB	2	0
29	aJ	201	PEB	1	0
29	N3	203	PEB	3	0
29	S2	202	PEB	9	0
29	DE	202	PEB	1	0
29	H4	202	PEB	21	0
29	f7	201	PEB	2	0
29	AN	201	PEB	3	0
29	TR	202	PEB	3	0
29	QL	202	PEB	8	0
29	CQ	202	PEB	3	0
29	RJ	203	PEB	1	0
31	K9	1001	CYC	2	0
29	QK	202	PEB	3	0
29	hB	202	PEB	1	0
29	FA	202	PEB	2	0
29	KD	202	PEB	22	0
29	PB	202	PEB	13	0
29	ID	203	PEB	15	0
29	BB	301	PEB	25	0
31	C7	1001	CYC	2	0
29	TR	201	PEB	9	0
29	C5	202	PEB	8	0
29	wJ	301	PEB	1	0
29	WL	202	PEB	13	0
29	MO	201	PEB	2	0
29	dJ	203	PEB	1	0
29	QR	201	PEB	3	0
31	F7	1001	CYC	1	0
32	k6	301	PMS	3	0
29	FG	202	PEB	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	dD	401	PEB	7	0
29	XM	201	PEB	3	0
29	F4	201	PEB	11	0
29	LF	1002	PEB	23	0
29	W9	202	PEB	20	0
29	V1	201	PEB	2	0
31	D7	1001	CYC	2	0
29	l1	202	PEB	2	0
29	e7	202	PEB	1	0
29	EG	202	PEB	3	0
29	GD	201	PEB	5	0
29	EG	201	PEB	3	0
29	m9	202	PEB	2	0
29	HI	1002	PEB	13	0
29	R9	202	PEB	1	0
29	aB	203	PEB	1	0
29	O9	201	PEB	1	0
29	W2	202	PEB	32	0
29	MB	202	PEB	7	0
29	ZJ	202	PEB	1	0
29	EN	201	PEB	1	0
29	c1	201	PEB	2	0
29	NI	1002	PEB	16	0
29	PR	202	PEB	4	0
29	HA	202	PEB	2	0
29	K4	203	PEB	8	0
29	J5	202	PEB	3	0
29	FC	201	PEB	1	0
29	HN	203	PEB	3	0
29	EL	202	PEB	3	0
29	KJ	201	PEB	8	0
29	vJ	201	PEB	4	0
29	OM	202	PEB	8	0
29	ML	202	PEB	3	0
29	c9	202	PEB	1	0
29	IJ	202	PEB	8	0
29	CD	201	PEB	6	0
29	FQ	201	PEB	12	0
31	NK	1001	CYC	1	0
29	OI	202	PEB	1	0
29	DD	202	PEB	4	0
29	c9	201	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	CQ	201	PEB	3	0
29	BC	201	PEB	1	0
29	PM	202	PEB	13	0
29	a7	201	PEB	1	0
29	I8	201	PEB	10	0
31	M7	1001	CYC	5	0
29	H8	202	PEB	2	0
29	DB	203	PEB	2	0
29	iK	201	PEB	1	0
29	PJ	202	PEB	1	0
29	H8	201	PEB	1	0
29	G5	203	PEB	2	0
29	MQ	401	PEB	12	0
29	hK	202	PEB	3	0
29	BD	201	PEB	4	0
29	yL	301	PEB	2	0
29	bL	201	PEB	1	0
29	cJ	202	PEB	12	0
29	JA	202	PEB	2	0
29	VK	201	PEB	2	0
29	AN	202	PEB	1	0
29	sL	201	PEB	1	0
29	NR	202	PEB	3	0
29	JA	201	PEB	9	0
29	WF	202	PEB	3	0
29	LA	203	PEB	3	0
29	S1	202	PEB	3	0
29	qL	201	PEB	2	0
29	sL	203	PEB	2	0
31	kP	1001	CYC	1	0
29	jJ	201	PEB	1	0
30	wJ	305	PUB	12	0
29	E3	202	PEB	2	0
29	AJ	203	PEB	10	0
29	BO	201	PEB	6	0
29	EQ	202	PEB	3	0
29	kL	202	PEB	3	0
29	V9	201	PEB	1	0
29	kB	201	PEB	14	0
29	xJ	302	PEB	3	0
29	IO	203	PEB	1	0
29	V7	201	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	XJ	201	PEB	1	0
29	J9	1002	PEB	7	0
31	L1	1001	CYC	1	0
31	1P	1001	CYC	1	0
29	JF	1002	PEB	15	0
29	ZI	202	PEB	2	0
29	AO	202	PEB	4	0
29	GA	202	PEB	1	0
29	TL	202	PEB	1	0
29	HE	203	PEB	1	0
29	GD	202	PEB	12	0
29	MD	201	PEB	8	0
29	KM	202	PEB	7	0
31	KK	1001	CYC	1	0
29	M3	201	PEB	1	0
29	YL	202	PEB	3	0
29	U7	201	PEB	3	0
29	DO	201	PEB	1	0
29	Y7	202	PEB	2	0
29	cB	203	PEB	2	0
29	A9	301	PEB	1	0
29	kJ	201	PEB	6	0
31	RP	1001	CYC	1	0
29	F8	201	PEB	1	0
29	dM	202	PEB	2	0
29	M4	201	PEB	6	0
29	QF	202	PEB	1	0
29	UL	202	PEB	1	0
29	F8	203	PEB	2	0
29	UL	201	PEB	4	0
29	R7	201	PEB	1	0
30	MA	403	PUB	2	0
29	e9	202	PEB	1	0
29	DN	203	PEB	3	0
29	IQ	202	PEB	2	0
29	DG	203	PEB	6	0
29	UK	201	PEB	1	0
29	c7	202	PEB	1	0
29	YJ	202	PEB	1	0
29	I4	201	PEB	13	0
30	AK	305	PUB	8	0
29	JC	202	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	G4	203	PEB	38	0
29	dK	202	PEB	2	0
29	rJ	202	PEB	4	0
29	FE	203	PEB	1	0
29	JD	202	PEB	4	0
29	C8	202	PEB	7	0
29	rJ	201	PEB	3	0
31	CP	1001	CYC	1	0
30	MA	402	PUB	3	0
29	cK	201	PEB	1	0
29	EJ	201	PEB	1	0
29	BL	202	PEB	1	0
29	VR	203	PEB	11	0
29	FF	1002	PEB	17	0
29	XB	202	PEB	2	0
29	L4	202	PEB	3	0
29	CA	202	PEB	1	0
29	Q9	201	PEB	1	0
29	I3	201	PEB	1	0
29	GE	201	PEB	1	0
29	B4	202	PEB	3	0
29	kI	203	PEB	33	0
29	Q1	202	PEB	2	0
29	IE	201	PEB	1	0
29	JQ	202	PEB	4	0
29	KQ	202	PEB	4	0
29	BE	203	PEB	1	0
29	JO	202	PEB	2	0
31	rP	1001	CYC	7	0
29	BG	203	PEB	45	0
29	C3	202	PEB	1	0
29	KJ	202	PEB	8	0
29	PL	202	PEB	12	0
31	NI	1001	CYC	2	0
29	EE	201	PEB	3	0
29	C4	201	PEB	6	0
29	LK	1002	PEB	19	0
29	j9	201	PEB	2	0
29	cB	201	PEB	2	0
29	HQ	202	PEB	4	0
29	dL	201	PEB	1	0
29	J7	1002	PEB	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	hM	202	PEB	1	0
29	V9	202	PEB	4	0
29	KL	201	PEB	9	0
31	NP	1001	CYC	1	0
29	B5	202	PEB	1	0
29	XR	203	PEB	3	0
31	I1	1001	CYC	1	0
29	KA	202	PEB	1	0
29	jI	202	PEB	1	0
29	JE	201	PEB	1	0
29	JQ	201	PEB	2	0
29	HN	201	PEB	4	0
29	kF	203	PEB	34	0
29	RB	201	PEB	2	0
29	HB	203	PEB	3	0
29	K8	202	PEB	2	0
29	A3	202	PEB	4	0
29	V7	203	PEB	4	0
29	iB	203	PEB	3	0
29	QI	202	PEB	1	0
29	lF	202	PEB	1	0
29	GN	202	PEB	1	0
29	nJ	203	PEB	1	0
31	N7	1001	CYC	6	0
29	I8	203	PEB	2	0
29	DL	202	PEB	1	0
29	MA	401	PEB	2	0
29	E4	203	PEB	7	0
29	AQ	202	PEB	2	0
29	V2	202	PEB	9	0
29	K5	202	PEB	1	0
29	VJ	201	PEB	1	0
29	M4	203	PEB	17	0
32	k6	302	PMS	1	0
29	RJ	201	PEB	1	0
29	mM	202	PEB	6	0
29	U1	201	PEB	1	0
29	II	202	PEB	1	0
29	L8	203	PEB	5	0
29	M2	201	PEB	20	0
29	uJ	202	PEB	2	0
29	HA	201	PEB	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	xJ	303	PEB	5	0
29	hI	202	PEB	1	0
29	IB	202	PEB	4	0
29	P9	202	PEB	1	0
29	WR	201	PEB	4	0
29	AC	201	PEB	2	0
29	pL	202	PEB	4	0
29	C4	202	PEB	22	0
29	A5	201	PEB	1	0
29	LG	201	PEB	10	0
29	OK	202	PEB	2	0
29	T7	202	PEB	4	0
29	uJ	203	PEB	1	0
29	TJ	201	PEB	1	0
29	CM	202	PEB	6	0
29	iL	201	PEB	2	0
29	h9	201	PEB	1	0
29	dL	202	PEB	2	0
29	fM	202	PEB	8	0
29	GJ	202	PEB	5	0
29	ZB	203	PEB	3	0
29	vL	201	PEB	3	0
29	KE	202	PEB	1	0
30	wL	305	PUB	12	0
29	gK	201	PEB	3	0
29	A7	301	PEB	1	0
29	KC	202	PEB	1	0
29	eK	201	PEB	1	0
29	YM	203	PEB	11	0
29	YL	201	PEB	1	0
29	HO	201	PEB	1	0
29	ZJ	201	PEB	1	0
29	LJ	201	PEB	5	0
29	DM	201	PEB	5	0
29	X2	202	PEB	3	0
29	l7	202	PEB	13	0
29	IN	202	PEB	1	0
29	FL	203	PEB	1	0
29	UB	202	PEB	8	0
29	RM	201	PEB	2	0
29	SJ	202	PEB	2	0
29	MN	401	PEB	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	LE	201	PEB	11	0
29	RR	202	PEB	3	0
29	FD	201	PEB	10	0
29	J8	202	PEB	3	0
29	MA	405	PEB	2	0
29	IJ	201	PEB	13	0
29	WI	202	PEB	1	0
29	iB	201	PEB	4	0
29	eI	202	PEB	1	0
29	MR	201	PEB	19	0
29	BA	202	PEB	3	0
29	MQ	406	PEB	2	0
29	FA	201	PEB	20	0
29	EA	202	PEB	1	0
29	aM	202	PEB	8	0
29	AA	201	PEB	3	0
29	IQ	201	PEB	3	0
29	WL	201	PEB	2	0
29	HD	202	PEB	22	0
29	IL	202	PEB	7	0
29	e2	402	PEB	6	0
29	g9	201	PEB	1	0
29	QJ	202	PEB	8	0
29	HM	201	PEB	2	0
29	FI	1002	PEB	16	0
29	JG	203	PEB	3	0
29	B3	201	PEB	5	0
29	FC	202	PEB	1	0
29	aL	201	PEB	1	0
29	K5	203	PEB	1	0
29	VB	203	PEB	2	0
29	QM	204	PEB	21	0
29	FN	203	PEB	3	0
29	WJ	203	PEB	1	0
29	N7	1002	PEB	8	0
29	MD	203	PEB	13	0
29	QM	203	PEB	1	0
29	HG	202	PEB	4	0
29	oL	201	PEB	1	0
29	a7	202	PEB	1	0
29	RL	202	PEB	7	0
29	CB	202	PEB	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	BJ	202	PEB	1	0
29	LM	201	PEB	2	0
29	FQ	202	PEB	7	0
29	O1	202	PEB	2	0
29	e1	201	PEB	1	0
29	hB	201	PEB	1	0
29	ZL	201	PEB	1	0
31	E1	1001	CYC	2	0
29	LD	202	PEB	3	0
29	Y9	202	PEB	2	0
29	KD	201	PEB	5	0
30	MN	403	PUB	3	0
29	PB	201	PEB	2	0
29	aK	201	PEB	2	0
29	mJ	201	PEB	2	0
29	N2	202	PEB	3	0
29	IG	201	PEB	3	0
29	N2	201	PEB	4	0
29	WM	202	PEB	8	0
29	d1	202	PEB	3	0
29	JJ	202	PEB	1	0
29	i9	202	PEB	3	0
29	lL	201	PEB	1	0
29	nL	202	PEB	5	0
29	EB	201	PEB	1	0
29	G5	201	PEB	1	0
29	R2	202	PEB	3	0
29	WK	202	PEB	10	0
29	TM	203	PEB	2	0
29	G4	202	PEB	13	0
29	ZM	202	PEB	4	0
29	mI	202	PEB	1	0
29	H7	1002	PEB	8	0
29	e2	401	PEB	38	0
29	AL	201	PEB	1	0
29	BO	202	PEB	3	0
29	qL	202	PEB	2	0
29	Y1	201	PEB	3	0
29	GB	202	PEB	11	0
29	fF	202	PEB	1	0
29	GN	201	PEB	2	0
29	d7	201	PEB	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	LJ	202	PEB	1	0
29	ED	202	PEB	4	0
29	uL	201	PEB	1	0
29	D4	201	PEB	8	0
29	P1	201	PEB	3	0
29	C8	203	PEB	1	0
29	FB	201	PEB	3	0
29	tJ	201	PEB	16	0
31	K7	1001	CYC	2	0
29	wL	303	PEB	5	0
29	H9	1002	PEB	8	0
29	ED	201	PEB	15	0
29	I5	202	PEB	16	0
29	HG	203	PEB	49	0
29	U2	202	PEB	38	0
31	F9	1001	CYC	1	0
31	CK	1001	CYC	3	0
29	OL	201	PEB	1	0
29	BA	203	PEB	2	0
29	R1	201	PEB	1	0
31	EK	1001	CYC	2	0
29	I5	201	PEB	10	0
29	VR	201	PEB	7	0
29	aM	203	PEB	1	0
29	FN	202	PEB	2	0
29	hF	202	PEB	1	0
32	kH	302	PMS	1	0
29	bL	202	PEB	12	0
29	iJ	201	PEB	2	0
29	CE	201	PEB	3	0
29	gJ	201	PEB	2	0
29	TF	201	PEB	12	0
29	HJ	202	PEB	2	0
31	HP	1001	CYC	1	0
29	L1	1002	PEB	20	0
29	BE	201	PEB	1	0
31	H7	1001	CYC	7	0
29	k9	202	PEB	2	0
29	A8	203	PEB	1	0
29	JO	201	PEB	1	0
29	L5	201	PEB	9	0
29	dB	202	PEB	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	LO	201	PEB	1	0
29	a1	201	PEB	1	0
29	pL	201	PEB	1	0
29	FG	201	PEB	13	0
29	cM	203	PEB	2	0
29	K8	203	PEB	1	0
29	H5	203	PEB	3	0
29	FG	203	PEB	95	0
29	FE	201	PEB	1	0
29	jK	202	PEB	2	0
29	XR	201	PEB	10	0
29	VB	201	PEB	6	0
29	W7	202	PEB	10	0
29	LG	203	PEB	51	0
29	WL	203	PEB	3	0
29	BJ	201	PEB	2	0
29	SR	202	PEB	9	0
29	MQ	403	PEB	3	0
29	aJ	202	PEB	3	0
29	SR	201	PEB	18	0
29	ID	201	PEB	13	0
29	A1	302	PEB	1	0
29	HQ	203	PEB	59	0
29	HL	202	PEB	1	0
29	mB	202	PEB	3	0
31	E7	1001	CYC	14	0
29	sJ	201	PEB	2	0
29	fJ	202	PEB	1	0
29	TR	203	PEB	7	0
29	NR	201	PEB	22	0
30	AB	304	PUB	4	0
29	DG	202	PEB	6	0
29	NB	202	PEB	2	0
29	WJ	202	PEB	13	0
29	LA	202	PEB	2	0
29	DM	203	PEB	3	0
29	jB	202	PEB	9	0
29	A5	203	PEB	1	0
29	TI	201	PEB	1	0
29	MN	405	PEB	2	0
29	m1	201	PEB	1	0
29	RM	203	PEB	16	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	NL	203	PEB	1	0
29	UR	202	PEB	22	0
29	a9	202	PEB	1	0
29	mL	202	PEB	2	0
29	YJ	201	PEB	1	0
29	oJ	202	PEB	3	0
29	HB	201	PEB	2	0
29	EJ	202	PEB	2	0
29	a9	201	PEB	1	0
29	TL	201	PEB	1	0
30	A1	305	PUB	7	0
29	L8	201	PEB	9	0
29	TB	201	PEB	2	0
29	J3	202	PEB	2	0
29	jL	202	PEB	2	0
29	F5	203	PEB	2	0
29	P2	201	PEB	4	0
29	D9	1002	PEB	7	0
29	iJ	202	PEB	2	0
29	JD	201	PEB	17	0
29	B5	201	PEB	1	0
29	F7	1002	PEB	7	0
29	FO	202	PEB	2	0
29	ML	201	PEB	2	0
29	CA	201	PEB	3	0
29	BQ	203	PEB	46	0
29	QB	204	PEB	21	0
29	BE	202	PEB	2	0
29	GM	202	PEB	11	0
29	L5	202	PEB	1	0
29	H4	201	PEB	8	0
29	KC	203	PEB	4	0
29	FJ	203	PEB	1	0
29	BG	202	PEB	4	0
29	GG	202	PEB	2	0
29	LL	201	PEB	5	0
29	GC	201	PEB	1	0
29	QL	201	PEB	1	0
29	BC	203	PEB	1	0
29	UI	203	PEB	1	0
29	JN	201	PEB	3	0
29	YK	201	PEB	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
31	yP	1001	CYC	1	0
29	jM	202	PEB	7	0
29	GG	201	PEB	3	0
29	FE	202	PEB	1	0
29	RR	203	PEB	5	0
29	eJ	201	PEB	2	0
29	JK	1002	PEB	5	0
29	zL	501	PEB	10	0
29	C5	203	PEB	1	0
29	FM	201	PEB	2	0
31	N1	1001	CYC	17	0
29	eB	201	PEB	2	0
29	J4	202	PEB	4	0
29	b7	201	PEB	2	0
29	yJ	301	PEB	2	0
29	O7	201	PEB	2	0
29	HC	203	PEB	1	0
29	W9	201	PEB	1	0
29	bI	202	PEB	1	0
29	KA	201	PEB	4	0
29	AG	201	PEB	3	0
29	XM	202	PEB	2	0
29	B4	201	PEB	3	0
29	gM	203	PEB	13	0
29	gJ	202	PEB	3	0
29	AM	301	PEB	1	0
29	kB	203	PEB	2	0
30	AM	304	PUB	2	0
29	kM	203	PEB	3	0
31	VP	1001	CYC	3	0
29	OJ	201	PEB	1	0
29	AL	203	PEB	9	0
29	fL	202	PEB	1	0
29	fL	201	PEB	6	0
29	DN	202	PEB	3	0
29	vL	202	PEB	1	0
29	A8	202	PEB	6	0
29	G3	202	PEB	1	0
29	uL	203	PEB	2	0
29	A1	303	PEB	2	0
29	TI	202	PEB	9	0
29	JN	203	PEB	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	GQ	201	PEB	3	0
29	iL	202	PEB	3	0
30	xJ	304	PUB	4	0
29	wL	302	PEB	1	0
29	L5	203	PEB	6	0
29	HD	201	PEB	7	0
29	RK	201	PEB	1	0
31	LI	1001	CYC	1	0
29	cF	202	PEB	1	0
29	eB	202	PEB	3	0
30	MN	402	PUB	2	0
29	h1	202	PEB	3	0
29	IA	201	PEB	3	0
29	JB	201	PEB	3	0
29	F1	1002	PEB	7	0
31	LF	1001	CYC	1	0
29	XB	201	PEB	4	0
29	MO	203	PEB	2	0
29	gL	202	PEB	2	0
29	UR	201	PEB	4	0
29	JM	203	PEB	6	0
29	xJ	301	PEB	3	0
31	K1	1001	CYC	1	0
29	FN	201	PEB	23	0
29	LG	202	PEB	5	0
29	d9	201	PEB	3	0
29	dF	203	PEB	1	0
31	D9	1001	CYC	2	0
29	CD	202	PEB	20	0
29	JL	203	PEB	1	0
31	L9	1001	CYC	4	0
29	AE	201	PEB	2	0
29	SL	201	PEB	2	0
29	gL	201	PEB	2	0
29	Q9	202	PEB	6	0
29	BC	202	PEB	2	0
29	GA	201	PEB	2	0
29	T2	201	PEB	3	0
29	l7	201	PEB	1	0
30	yL	302	PUB	1	0
29	FC	203	PEB	1	0
29	HQ	201	PEB	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	Q2	201	PEB	3	0
29	HA	203	PEB	3	0
29	E4	202	PEB	13	0
29	TM	201	PEB	2	0
29	cJ	201	PEB	10	0
31	N9	1001	CYC	6	0
29	D3	202	PEB	31	0
29	XL	202	PEB	2	0
29	DE	201	PEB	1	0
29	k7	202	PEB	2	0
29	NR	203	PEB	1	0
29	F3	202	PEB	1	0
31	vP	1001	CYC	1	0
29	sL	202	PEB	2	0
29	i9	201	PEB	1	0
29	LE	203	PEB	1	0
29	jJ	202	PEB	1	0
29	bF	202	PEB	1	0
32	kH	301	PMS	3	0
29	MJ	201	PEB	2	0
29	FL	201	PEB	8	0
29	BQ	202	PEB	5	0
29	i7	202	PEB	3	0
29	DN	201	PEB	3	0
31	GK	1001	CYC	2	0
29	DK	1002	PEB	12	0
29	IL	201	PEB	15	0
29	XJ	202	PEB	2	0
29	ZL	202	PEB	1	0
29	YB	203	PEB	9	0
29	OB	202	PEB	8	0
29	XL	201	PEB	1	0
29	IN	201	PEB	2	0
30	MG	402	PUB	10	0
31	nP	1001	CYC	2	0
31	FI	1001	CYC	2	0
29	JJ	203	PEB	1	0
31	H9	1001	CYC	6	0
29	rL	202	PEB	5	0
29	f9	201	PEB	3	0
29	H3	202	PEB	3	0
29	VM	201	PEB	6	0

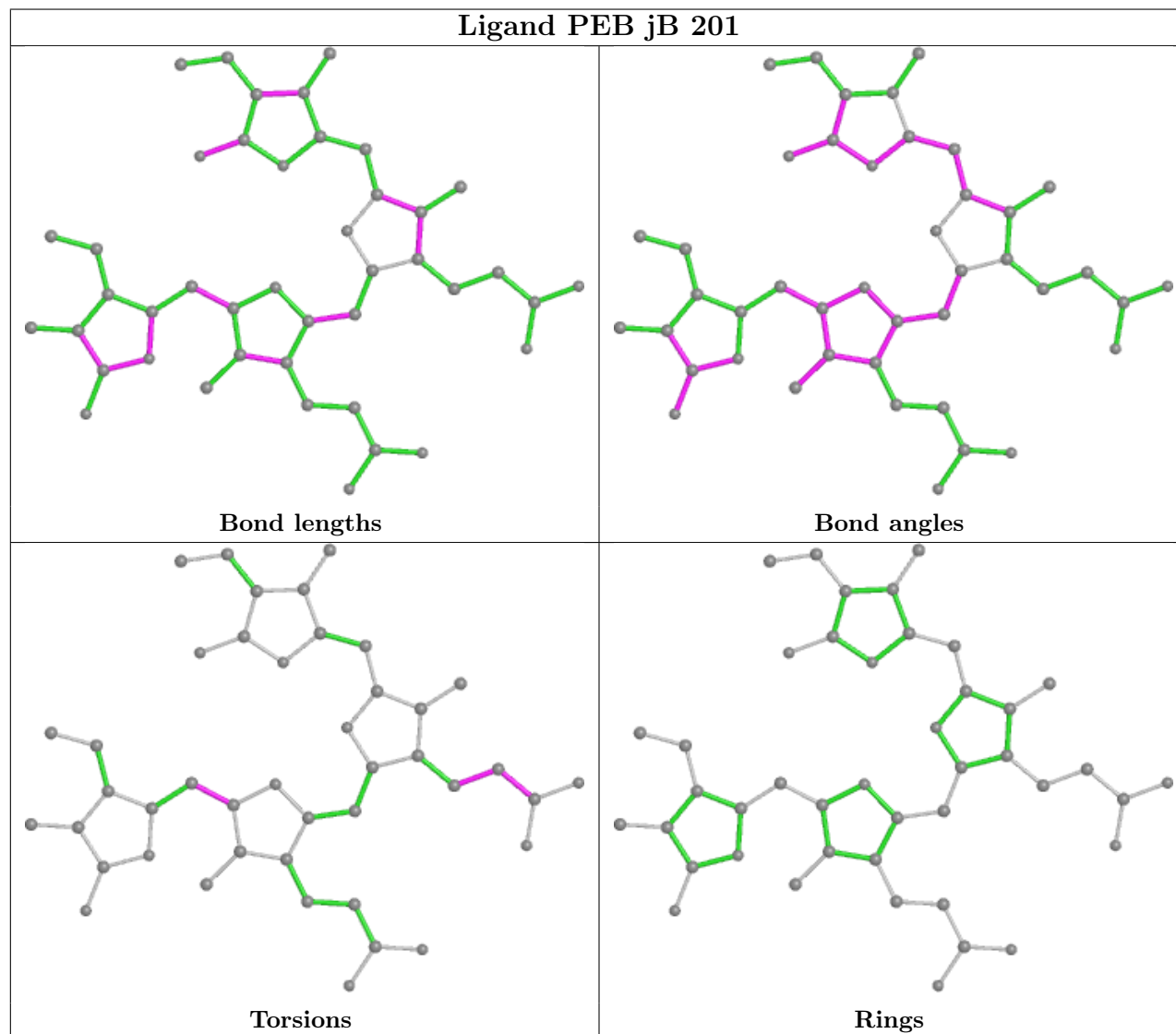
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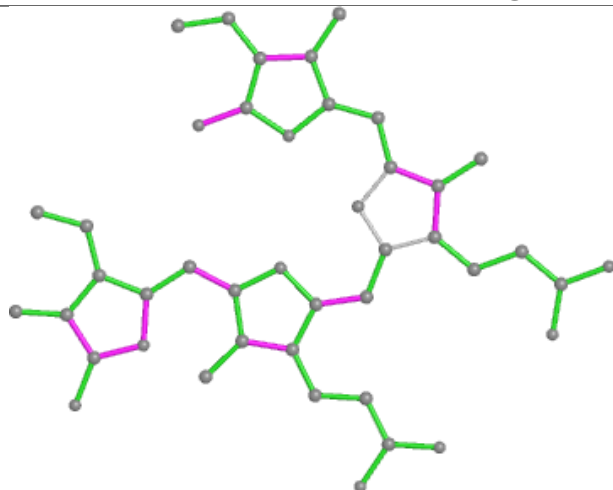
Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	LL	202	PEB	1	0
29	AA	202	PEB	1	0
29	OR	201	PEB	6	0
29	ZF	202	PEB	1	0
29	JG	202	PEB	5	0
29	LB	203	PEB	2	0
29	EO	202	PEB	2	0
31	C9	1001	CYC	2	0
29	F8	202	PEB	1	0
29	g9	202	PEB	2	0
29	mL	201	PEB	2	0
29	mM	201	PEB	2	0
31	M9	1001	CYC	5	0
29	PJ	201	PEB	1	0
29	LC	203	PEB	1	0
29	DA	203	PEB	2	0
29	LD	201	PEB	8	0
29	CN	202	PEB	1	0
29	k1	201	PEB	1	0
29	CN	201	PEB	2	0
29	IA	202	PEB	1	0
29	bJ	203	PEB	1	0
29	A1	301	PEB	2	0
31	JF	1001	CYC	3	0
29	HN	202	PEB	1	0
29	FA	203	PEB	2	0
29	I4	202	PEB	23	0
29	dI	203	PEB	1	0
29	XR	202	PEB	4	0
29	C8	201	PEB	4	0
30	yJ	302	PUB	2	0
29	a9	203	PEB	2	0
29	LN	203	PEB	3	0
29	M2	202	PEB	45	0
29	HC	202	PEB	2	0
29	DI	1002	PEB	14	0
29	EM	201	PEB	1	0
29	UJ	202	PEB	2	0
29	eL	201	PEB	1	0
29	N3	201	PEB	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

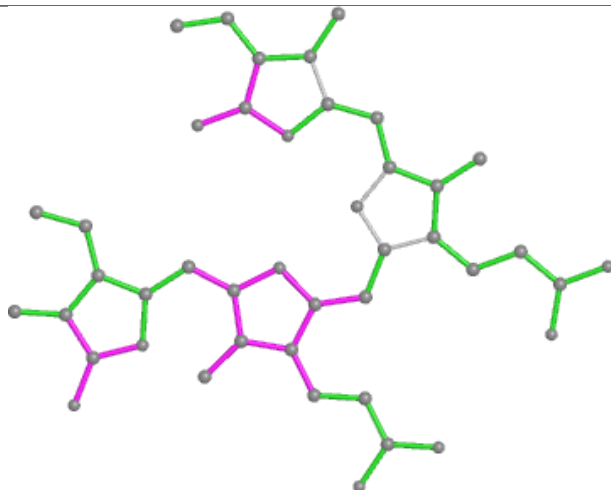
addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



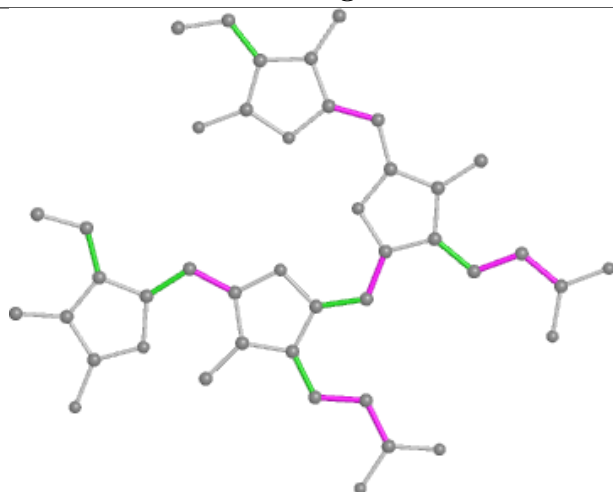
Ligand PEB B5 203



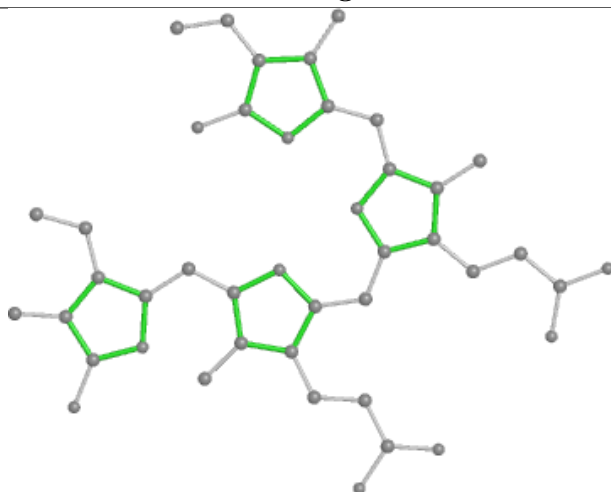
Bond lengths



Bond angles

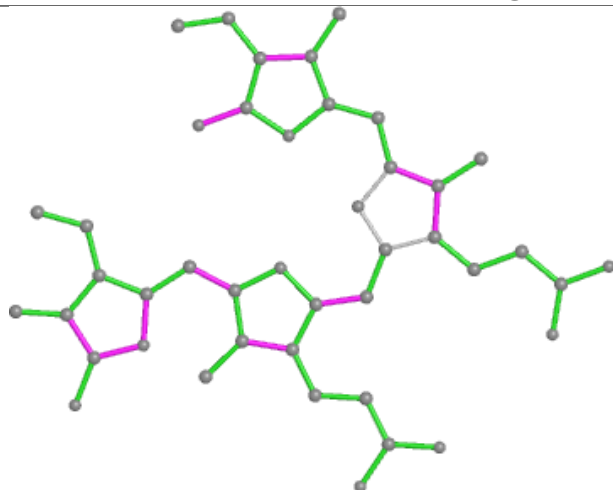


Torsions

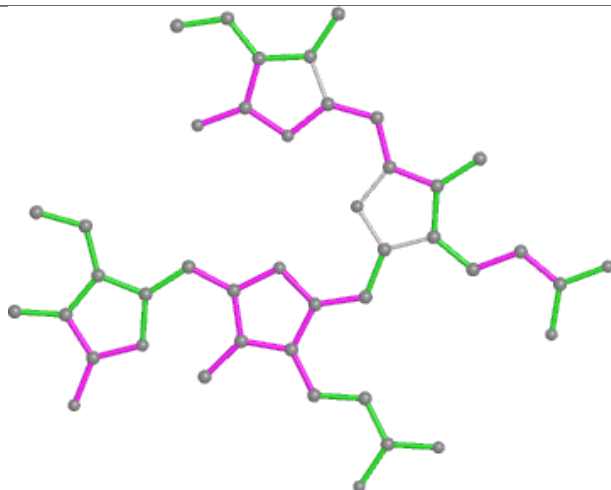


Rings

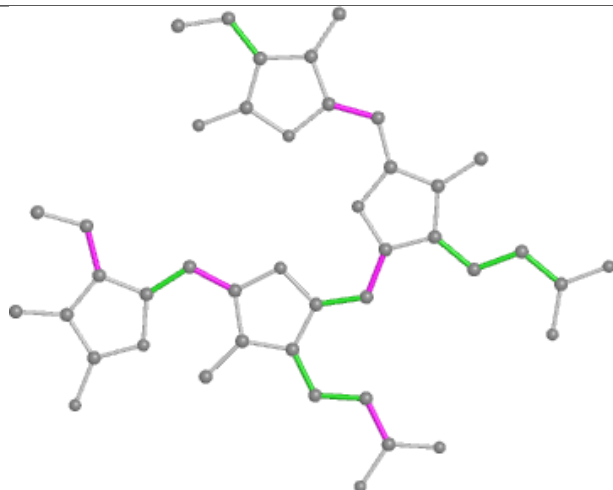
Ligand PEB B3 203



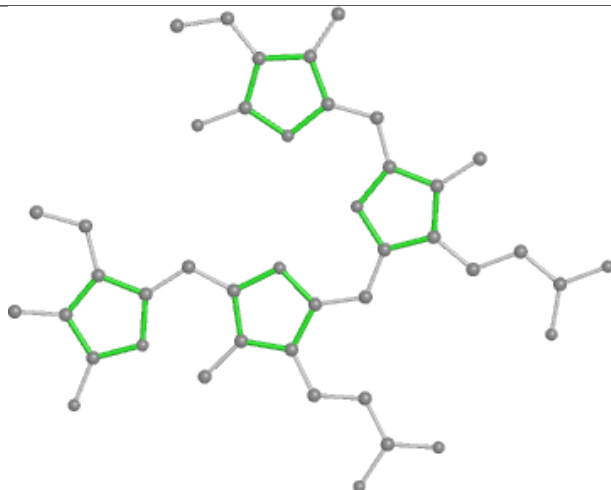
Bond lengths



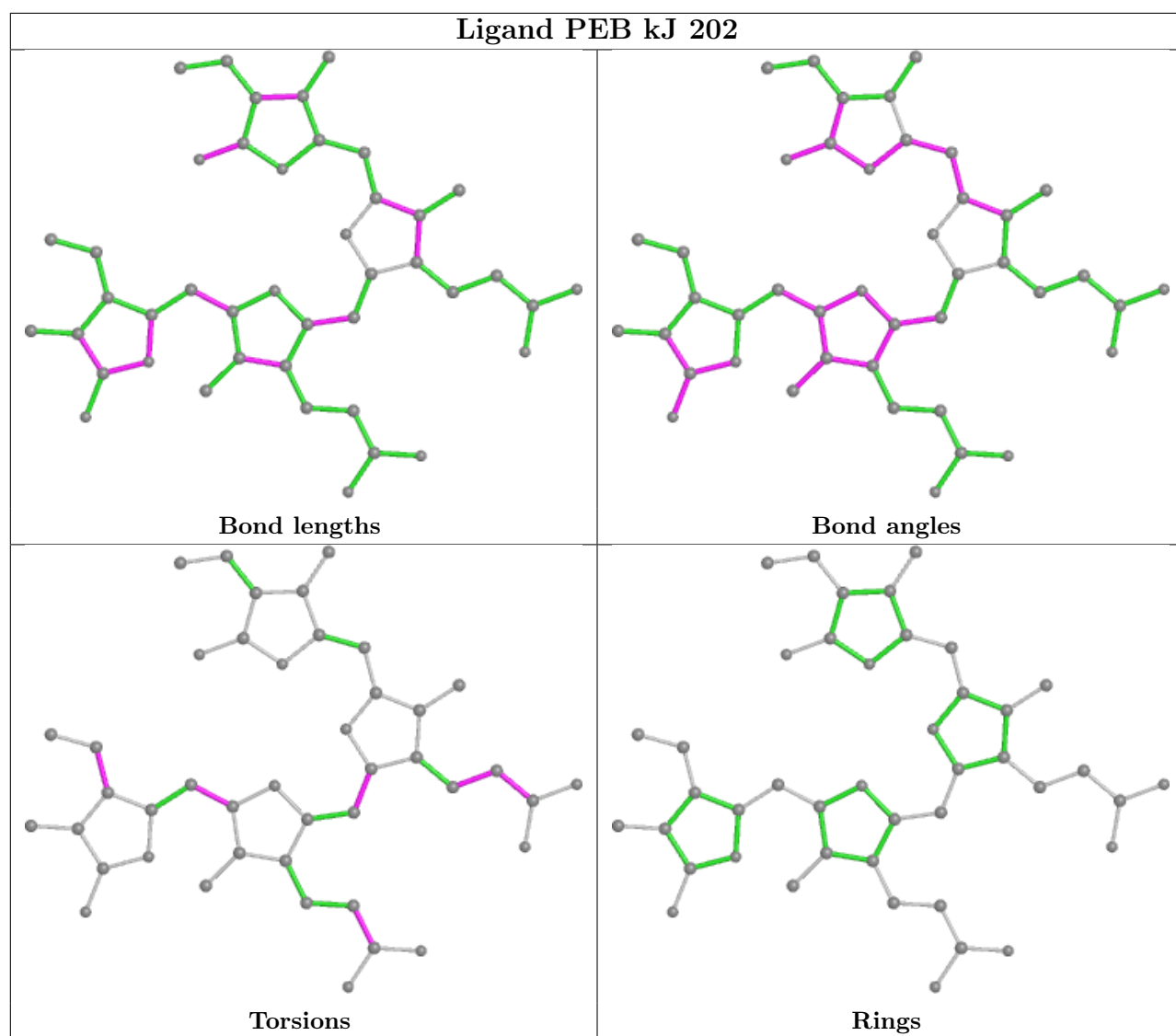
Bond angles



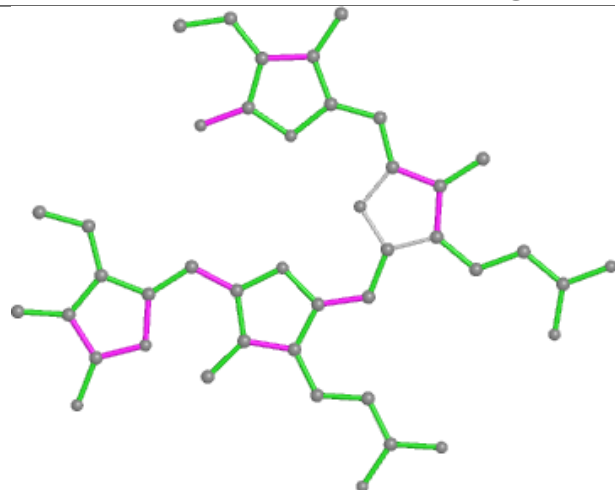
Torsions



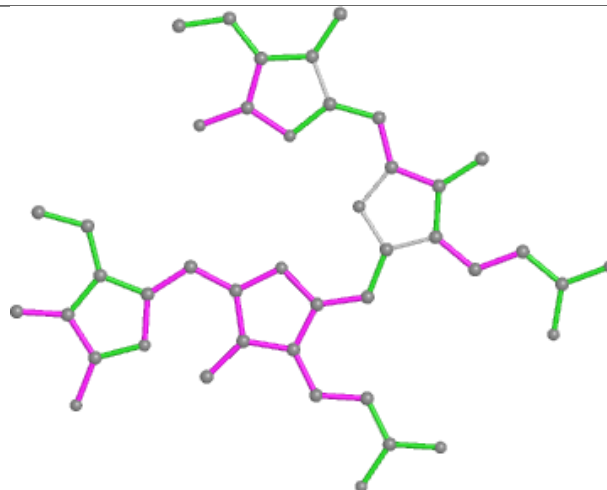
Rings



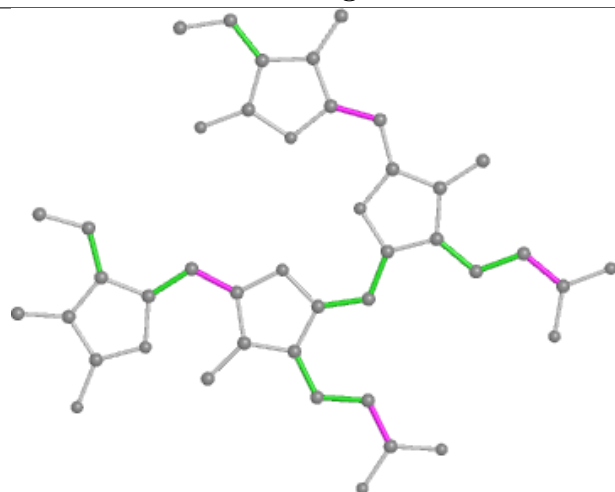
Ligand PEB O1 201



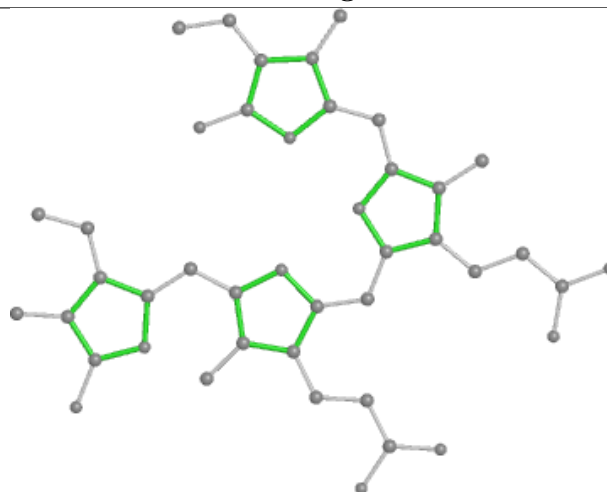
Bond lengths



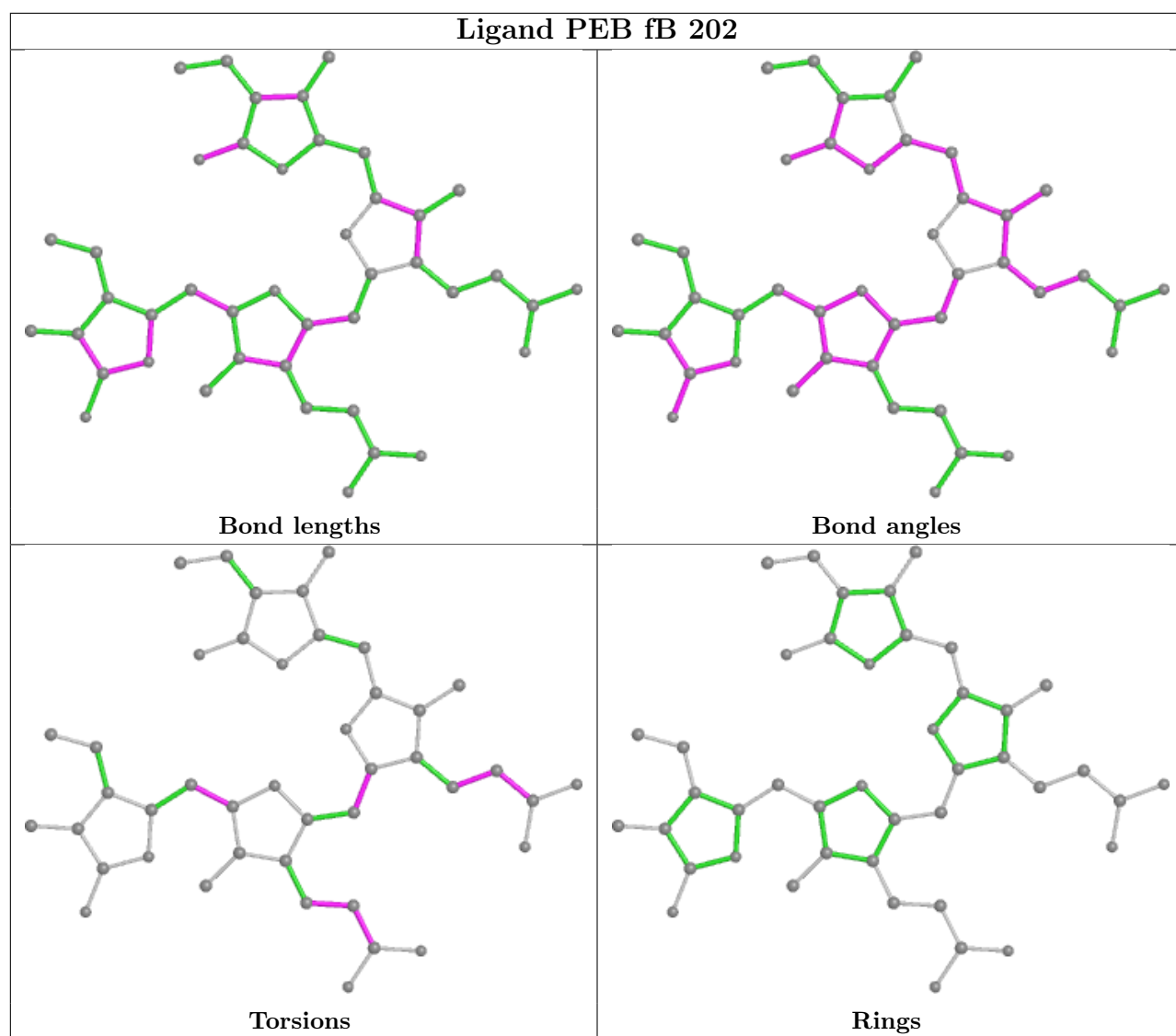
Bond angles



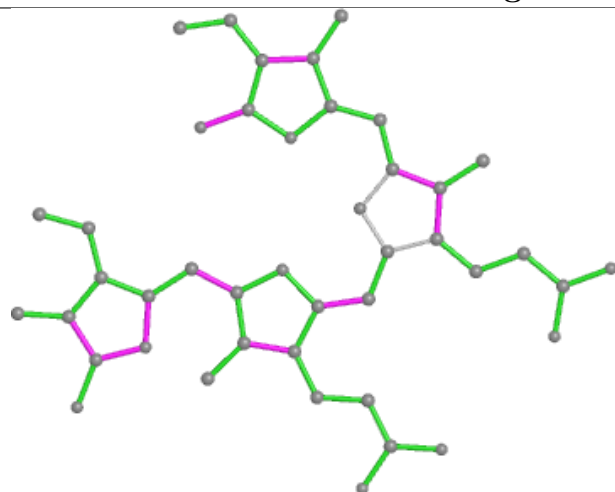
Torsions



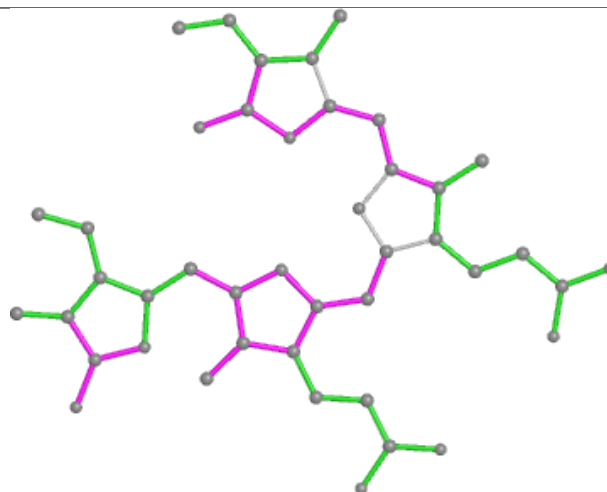
Rings



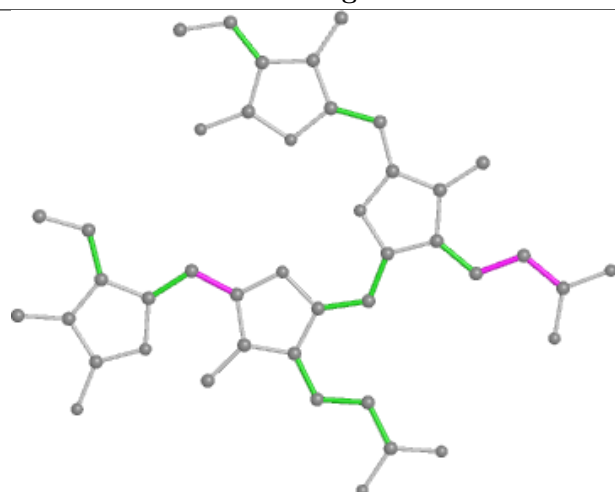
Ligand PEB aM 201



Bond lengths



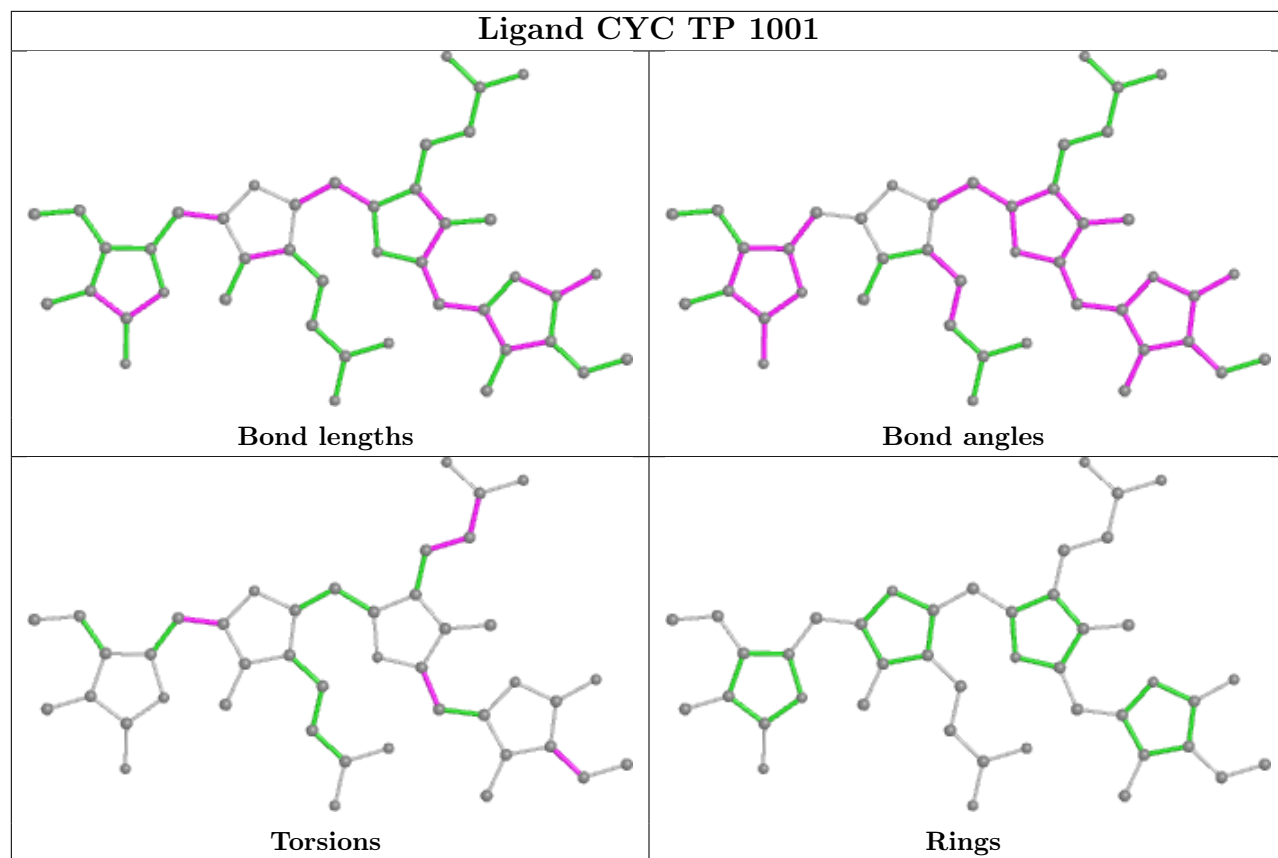
Bond angles



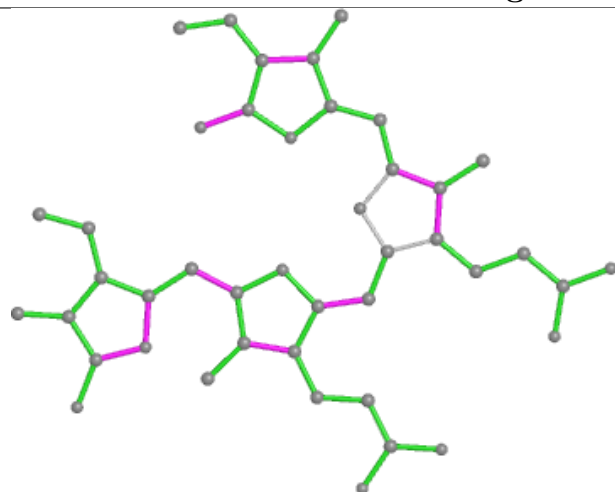
Torsions



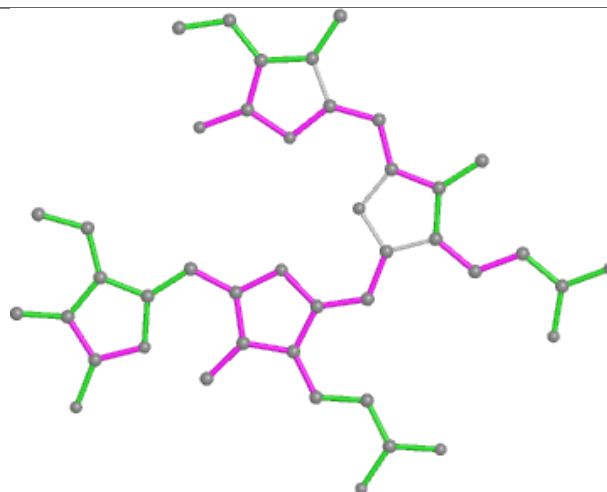
Rings



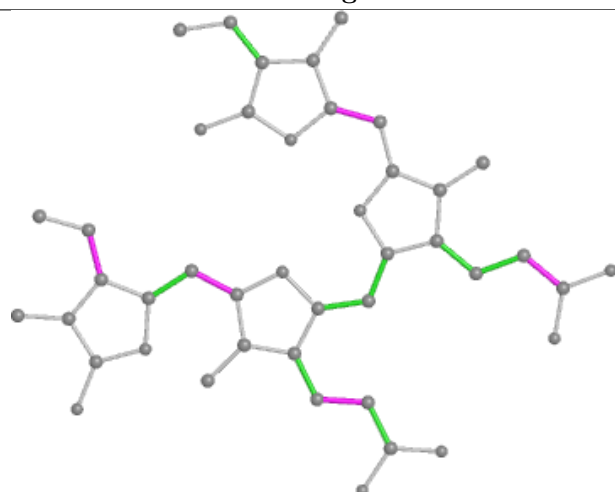
Ligand PEB GJ 201



Bond lengths



Bond angles

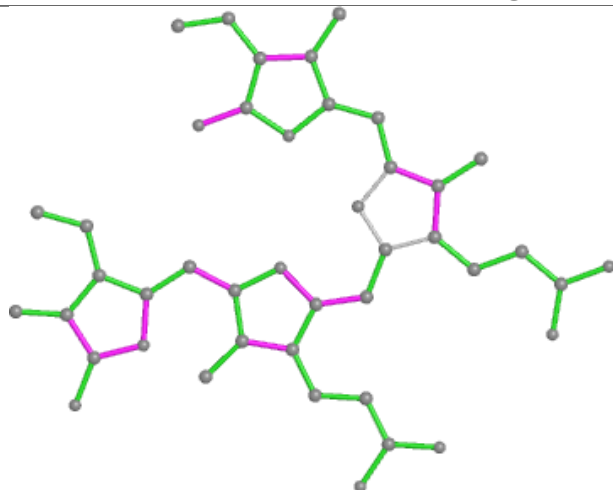


Torsions

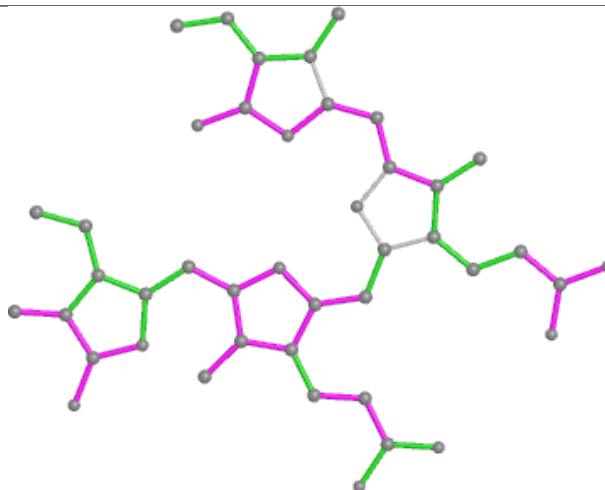


Rings

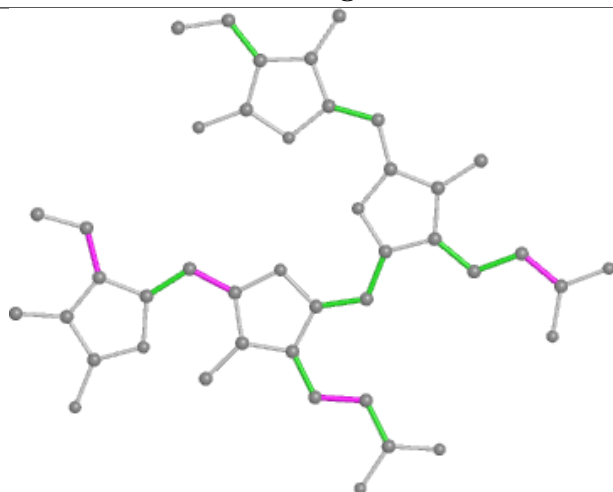
Ligand PEB O2 201



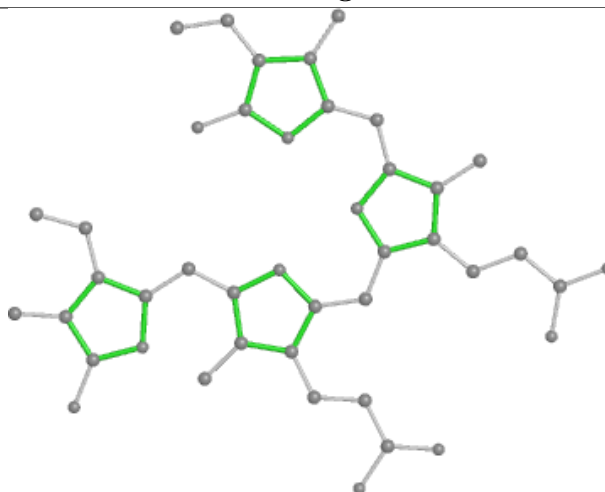
Bond lengths



Bond angles

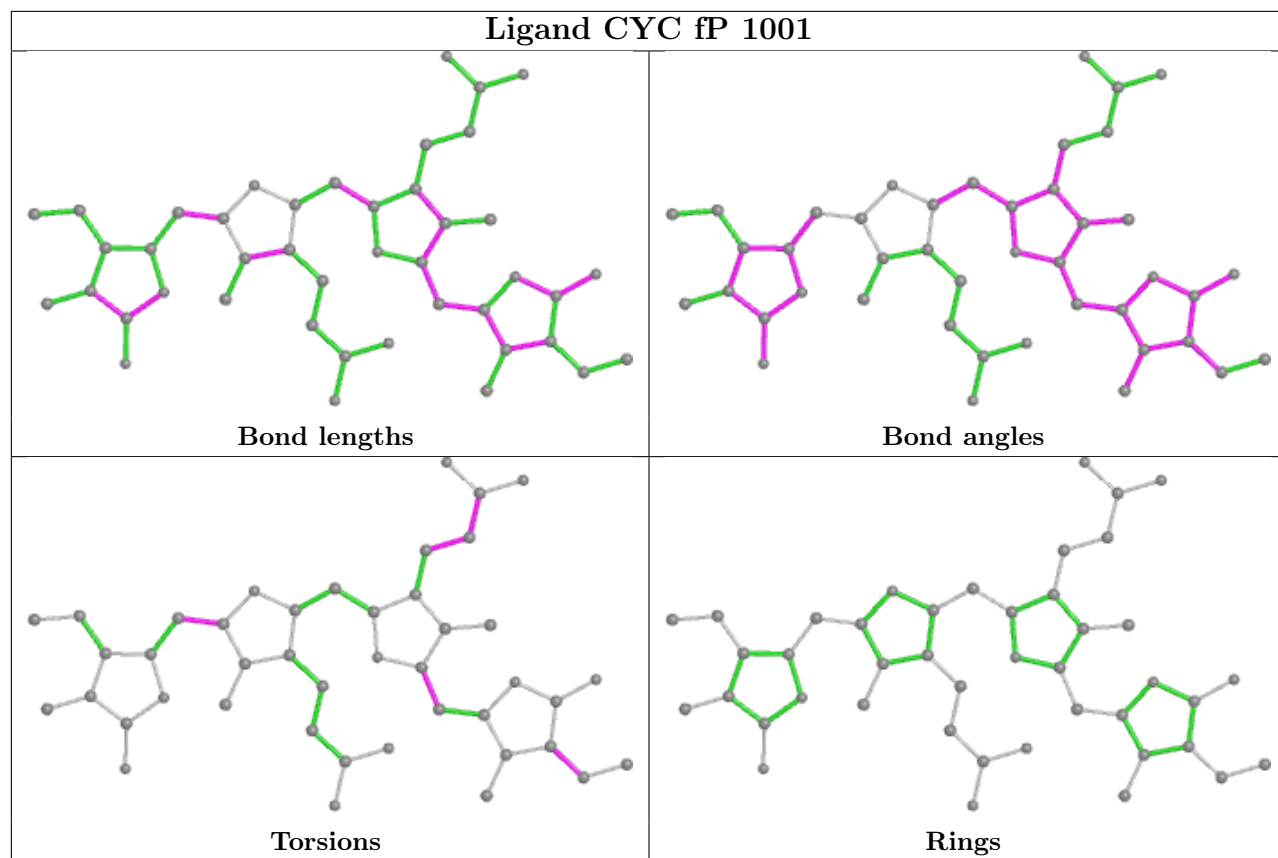


Torsions

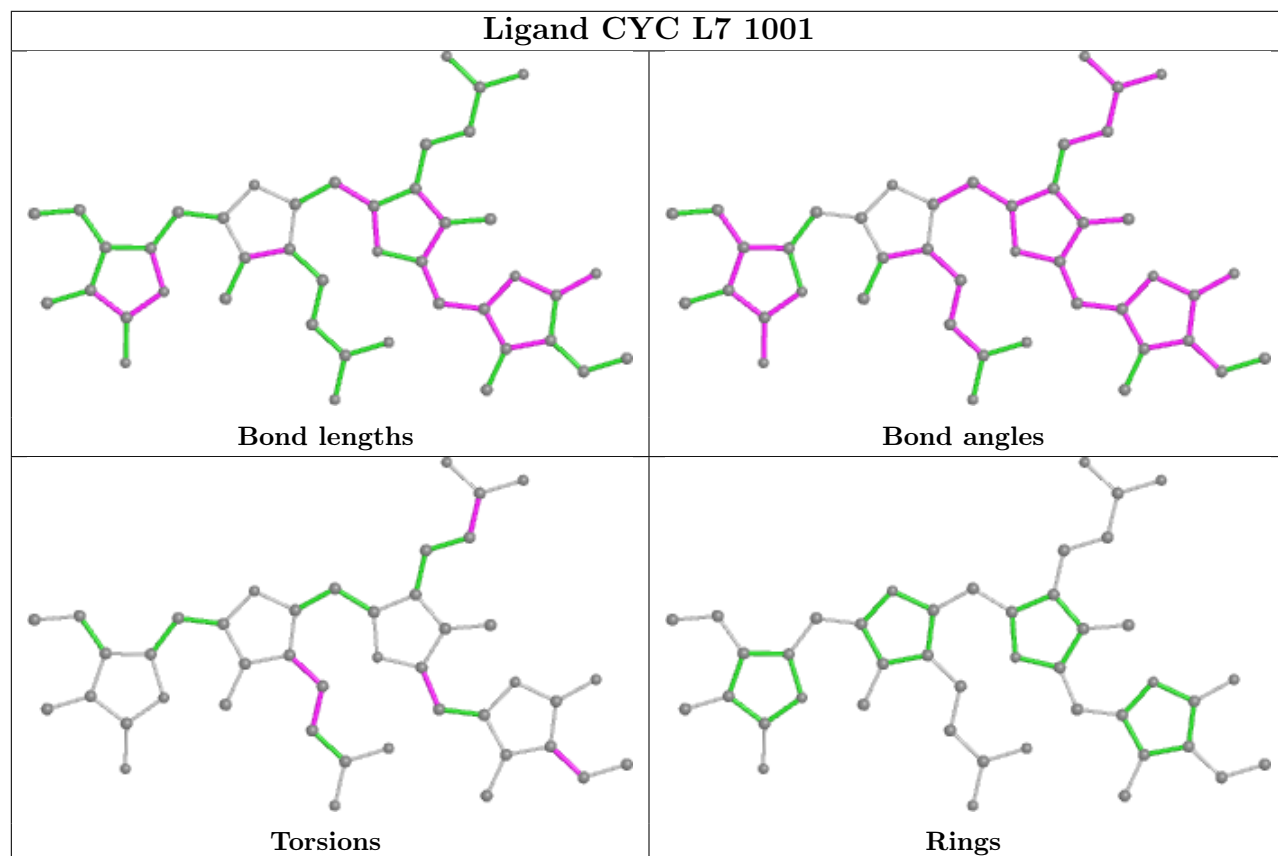


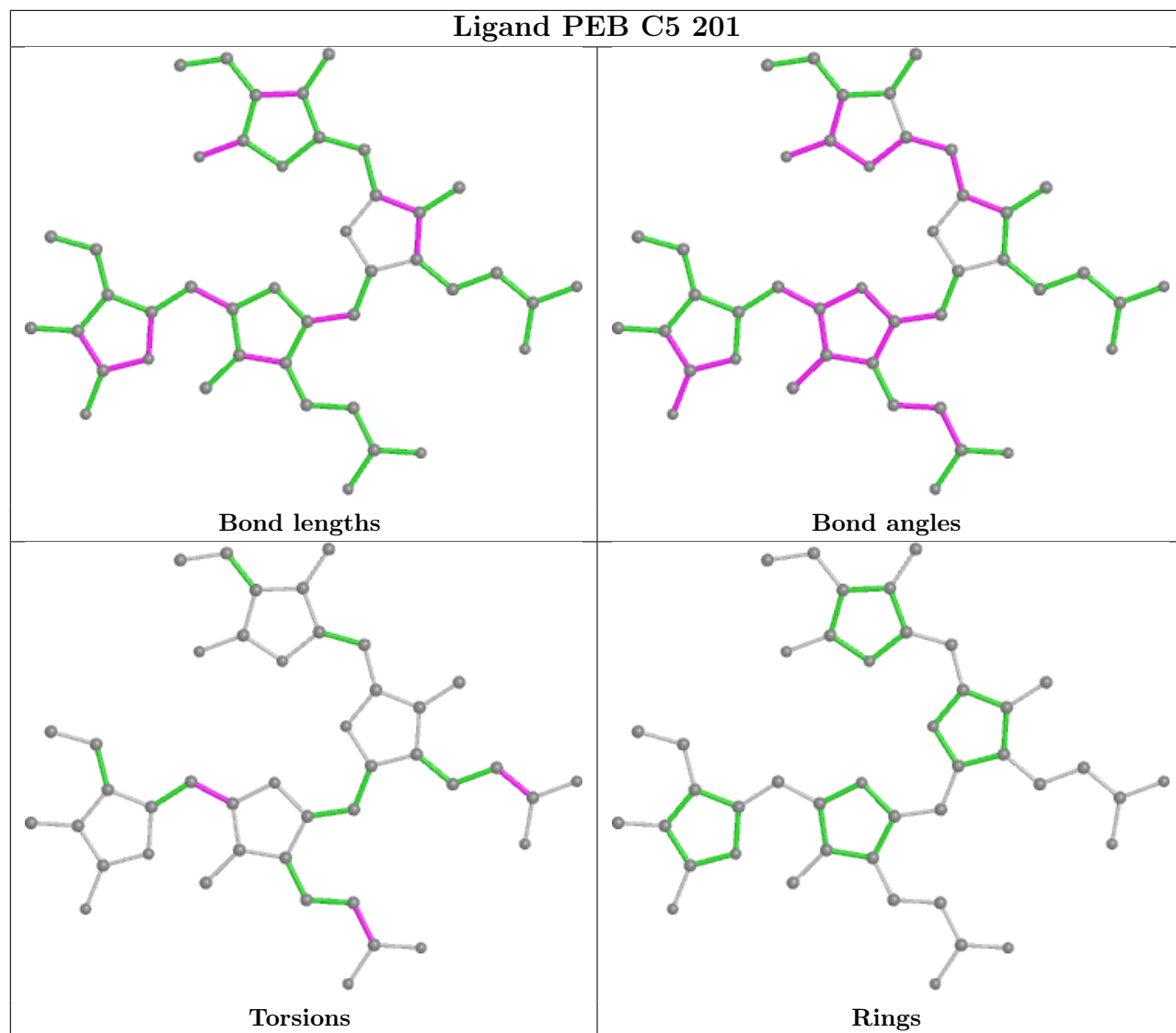
Rings

Ligand CYC fp 1001

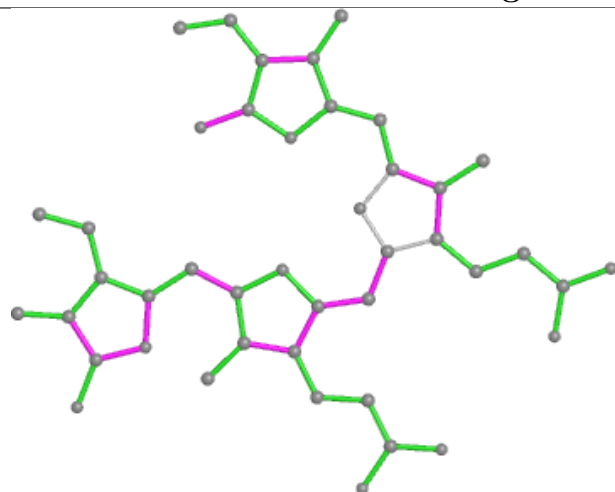


Ligand CYC L7 1001

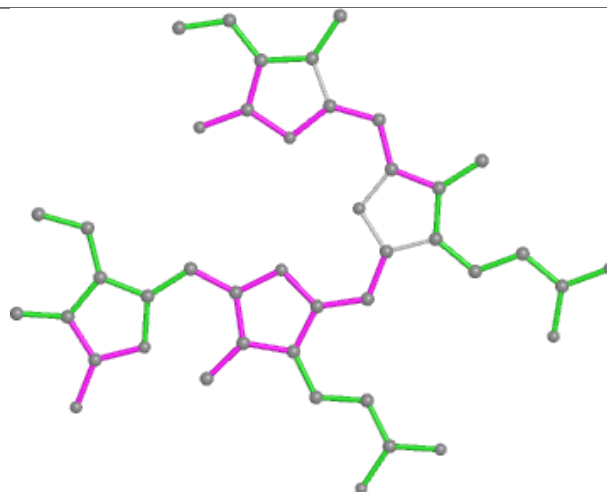




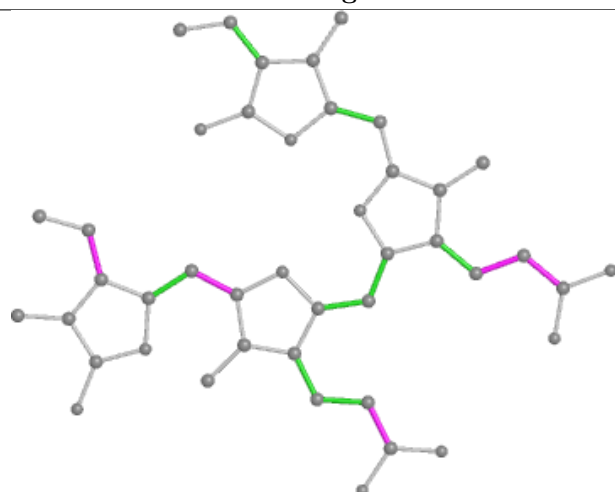
Ligand PEB KO 202



Bond lengths



Bond angles

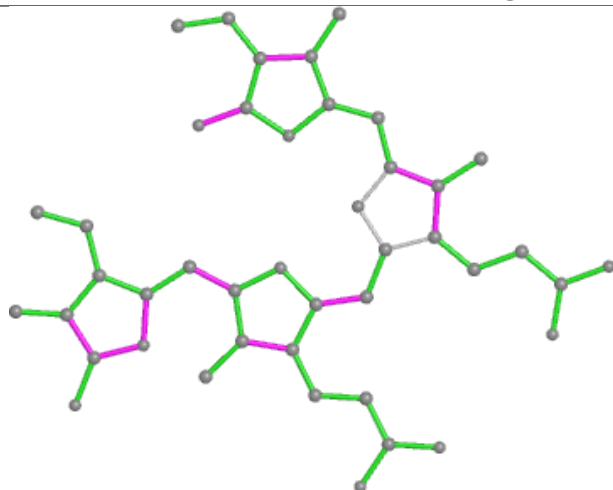


Torsions

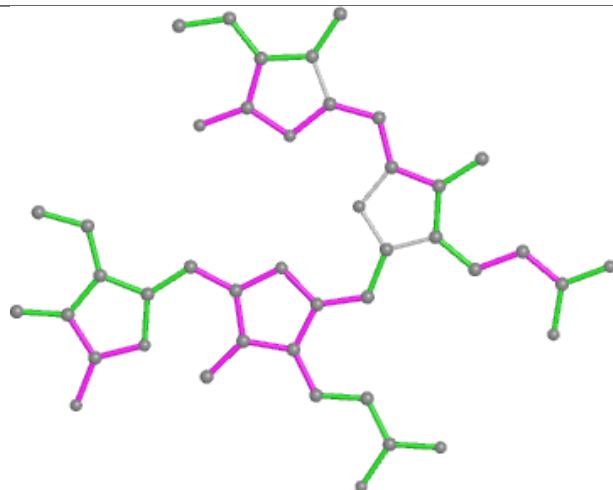


Rings

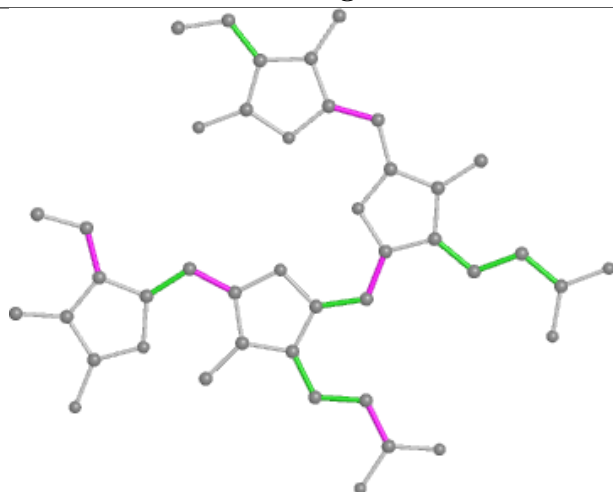
Ligand PEB BO 203



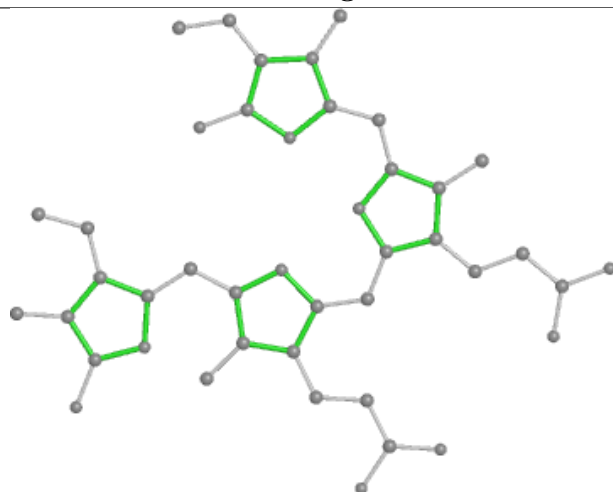
Bond lengths



Bond angles

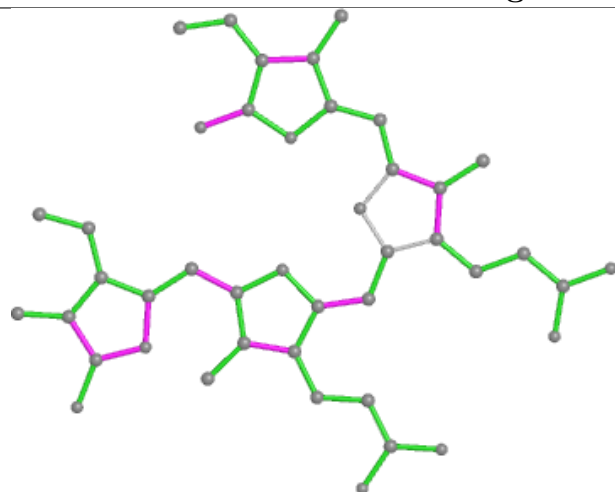


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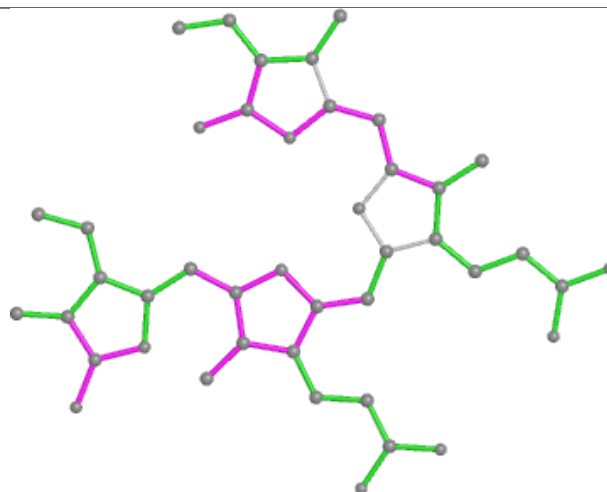


Rings

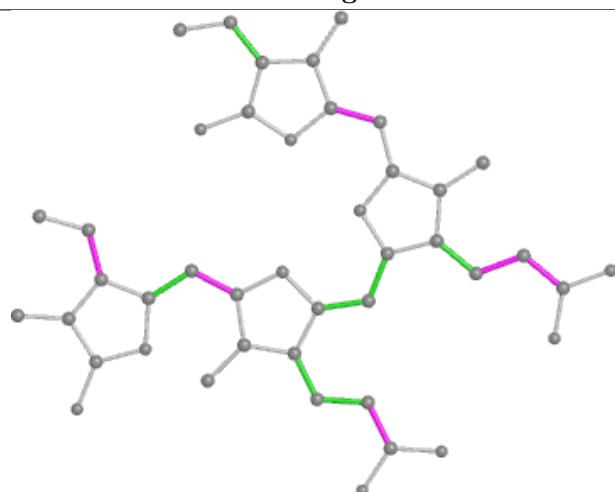
Ligand PEB G5 202



Bond lengths



Bond angles

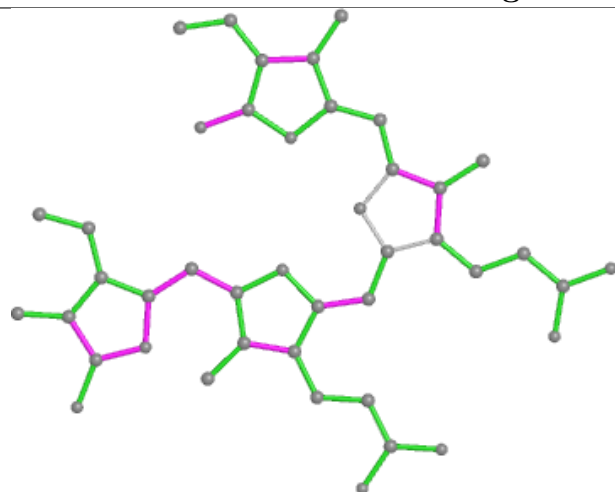


Torsions

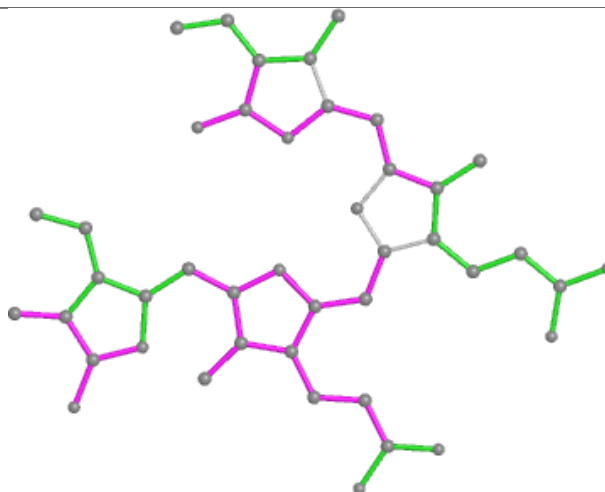


Rings

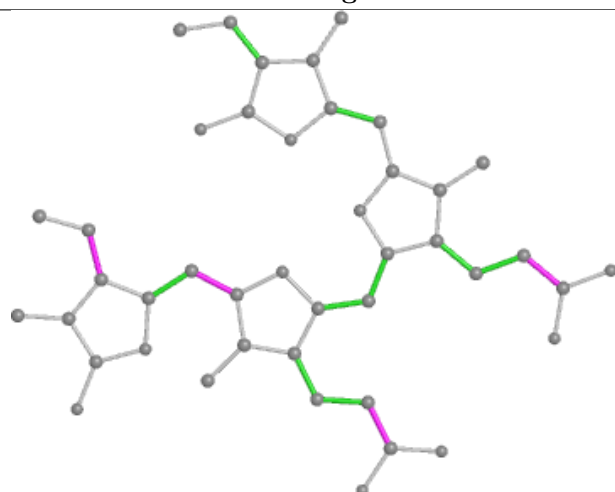
Ligand PEB W7 201



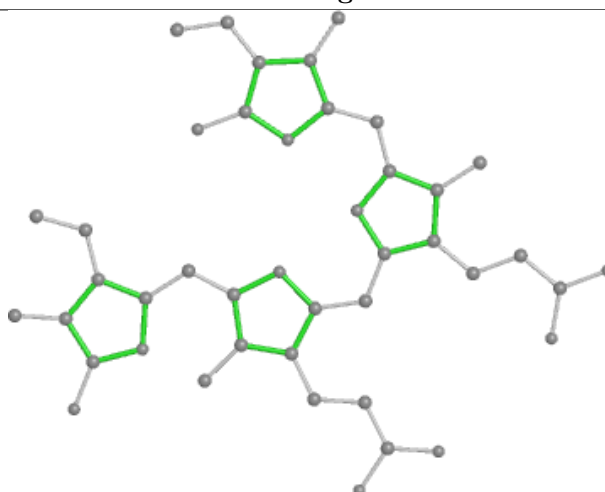
Bond lengths



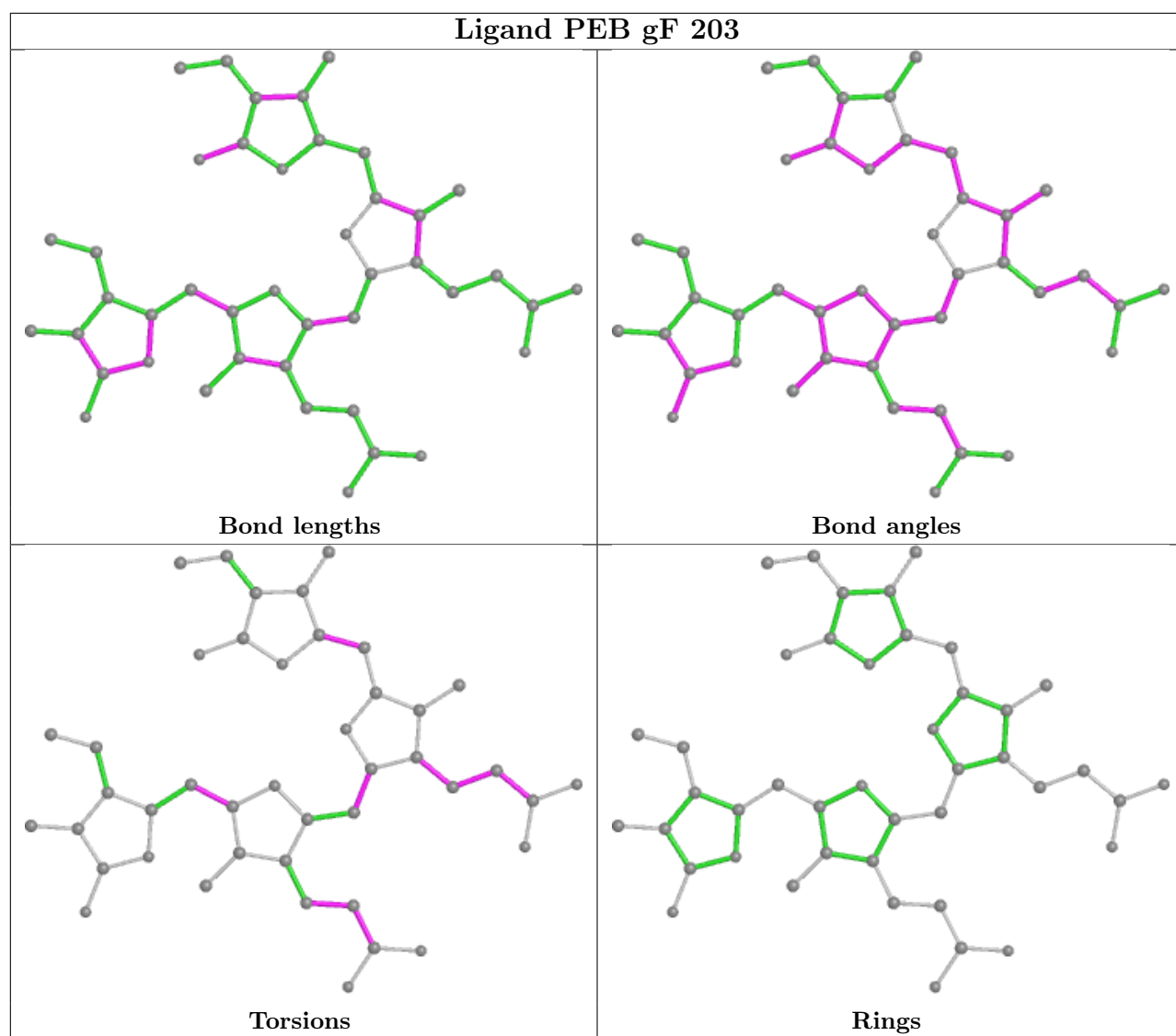
Bond angles

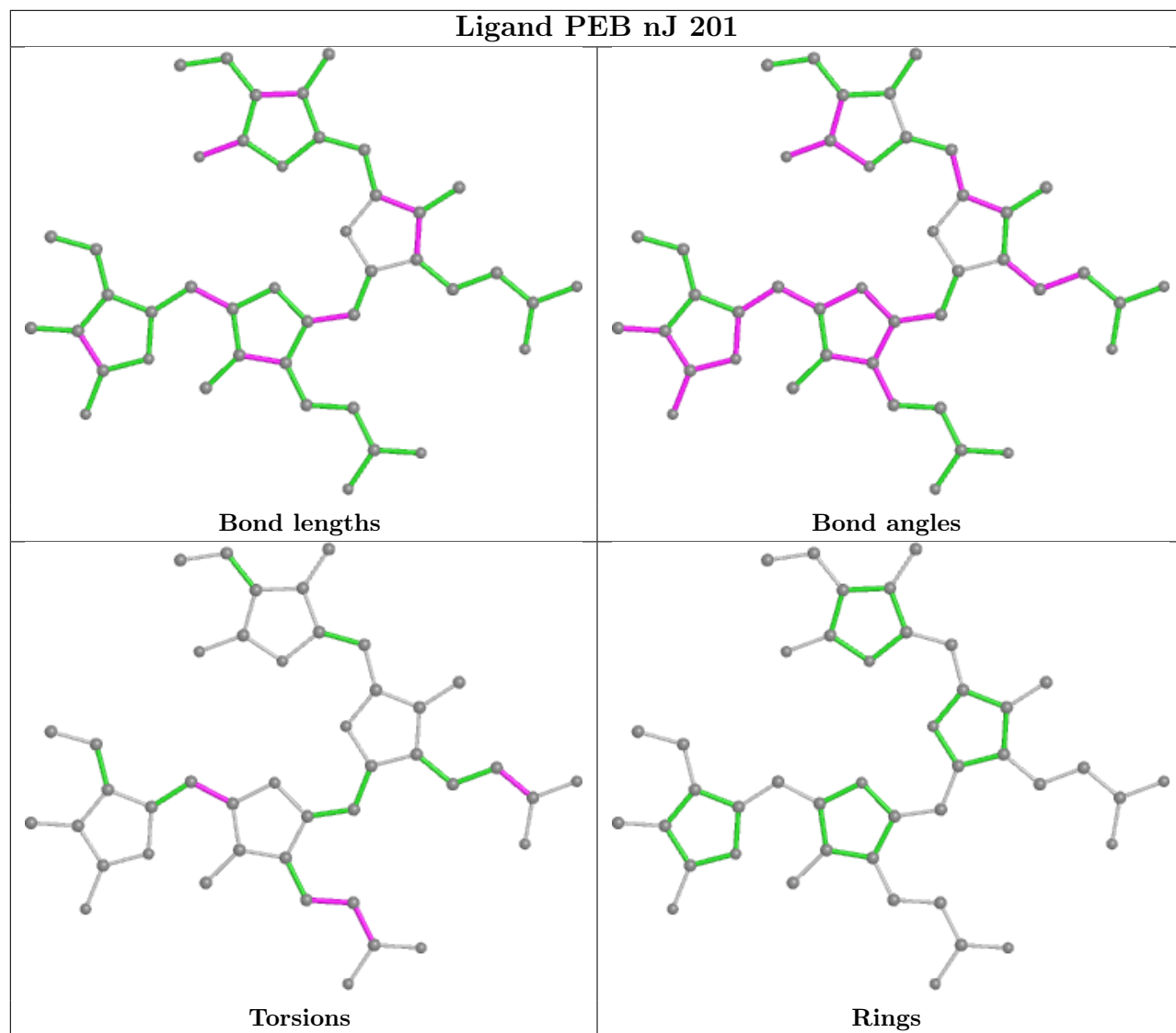


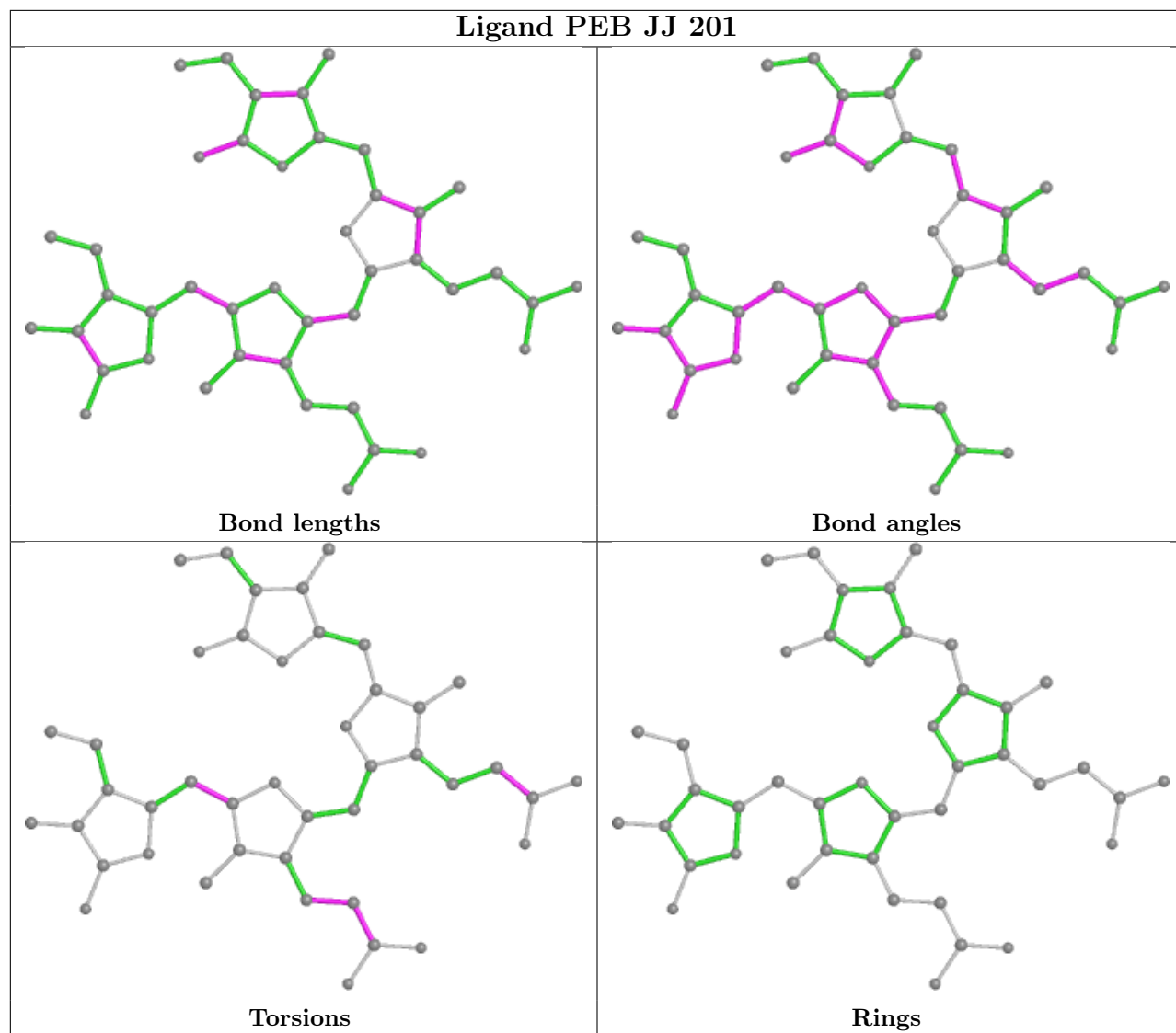
Torsions

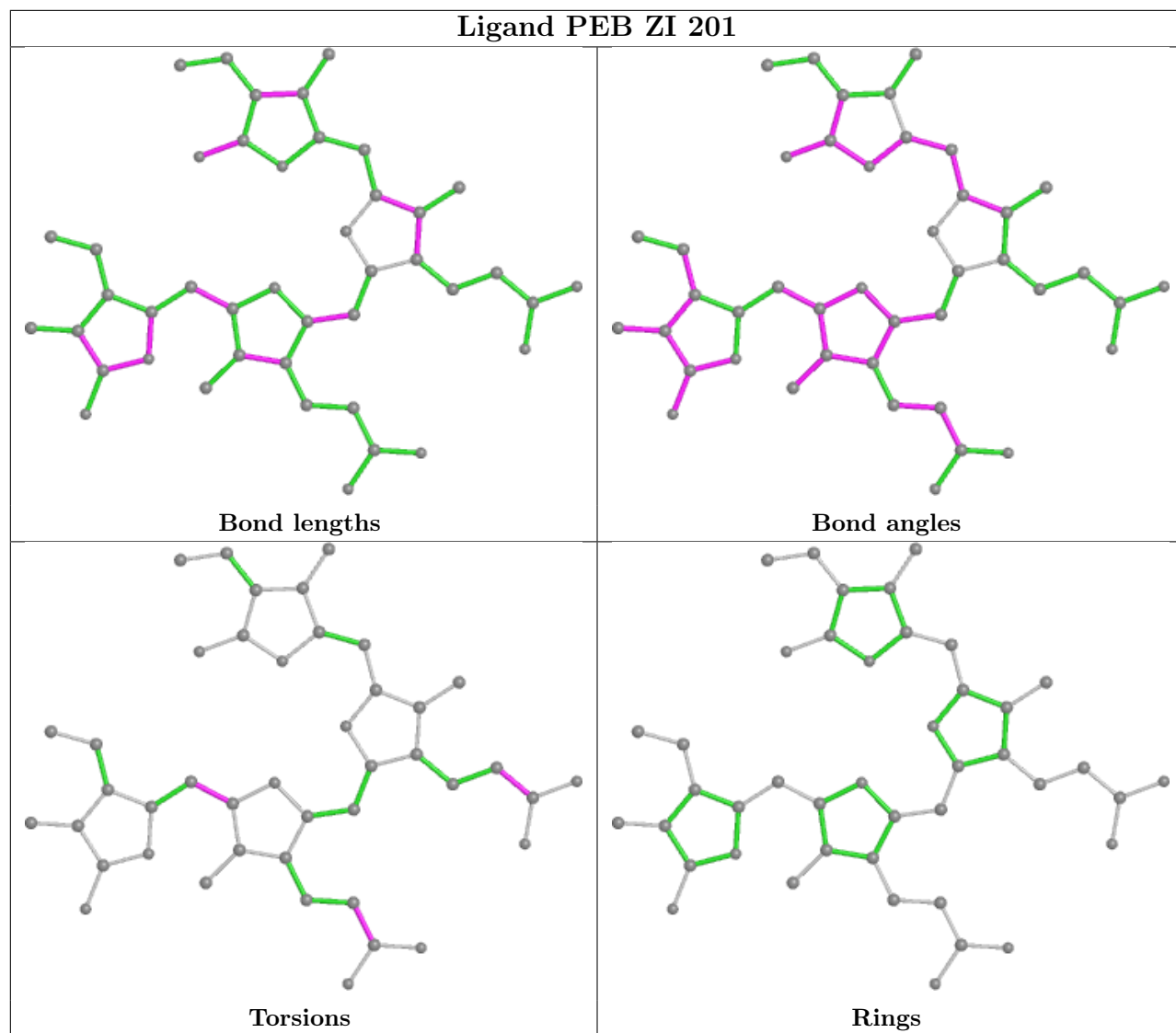


Rings

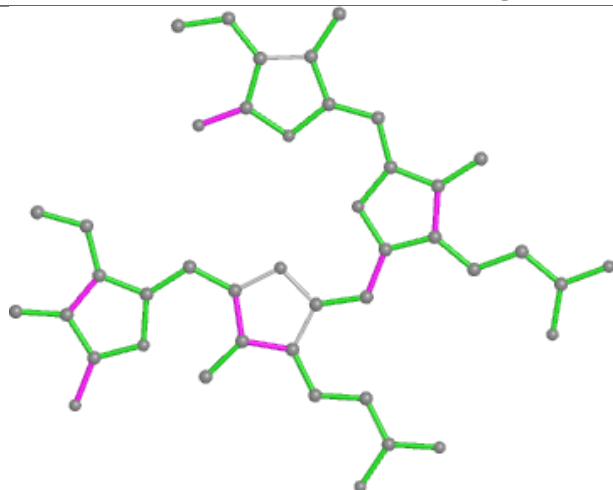




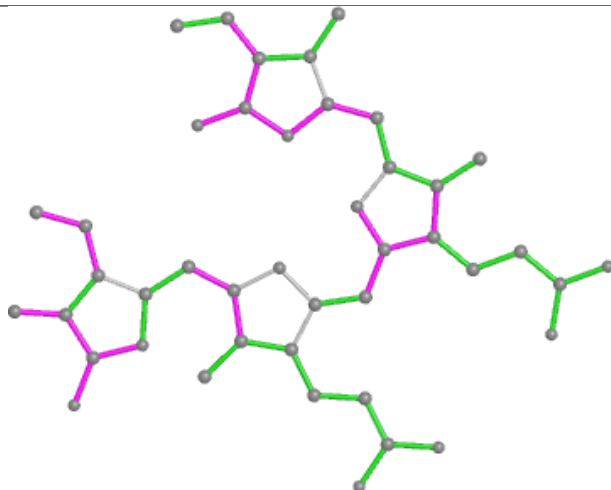




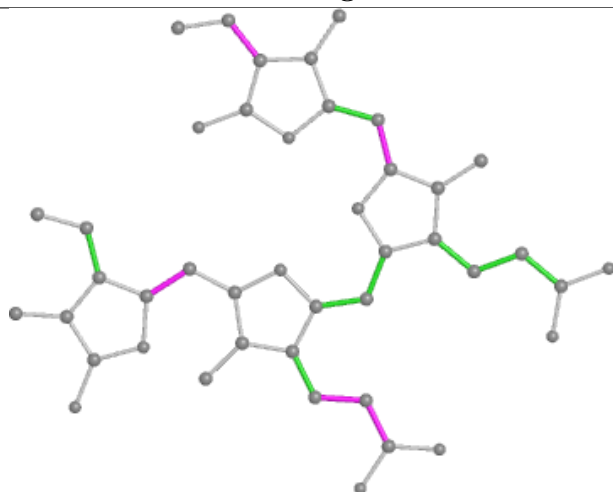
Ligand PUB BM 302



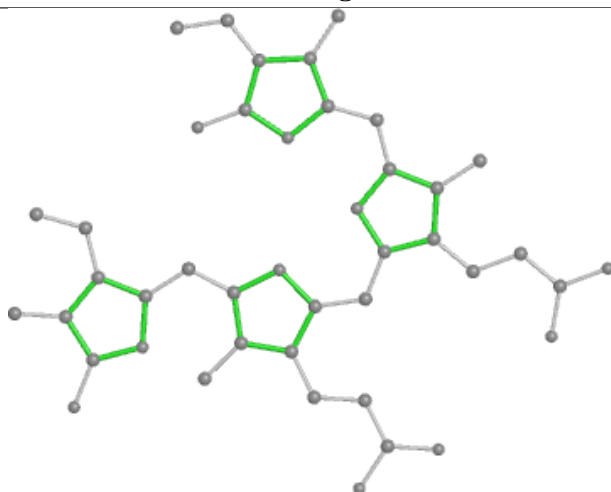
Bond lengths



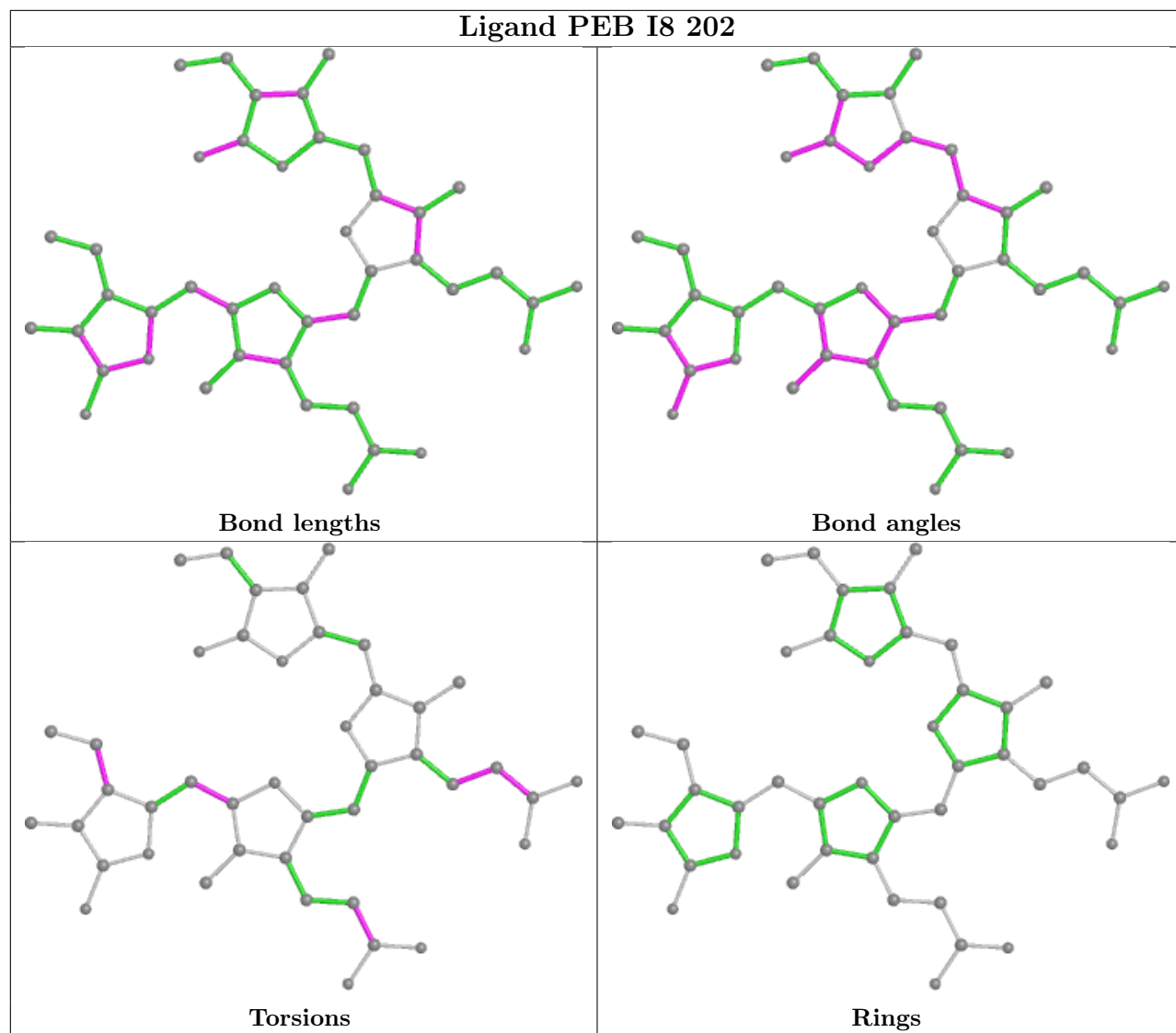
Bond angles

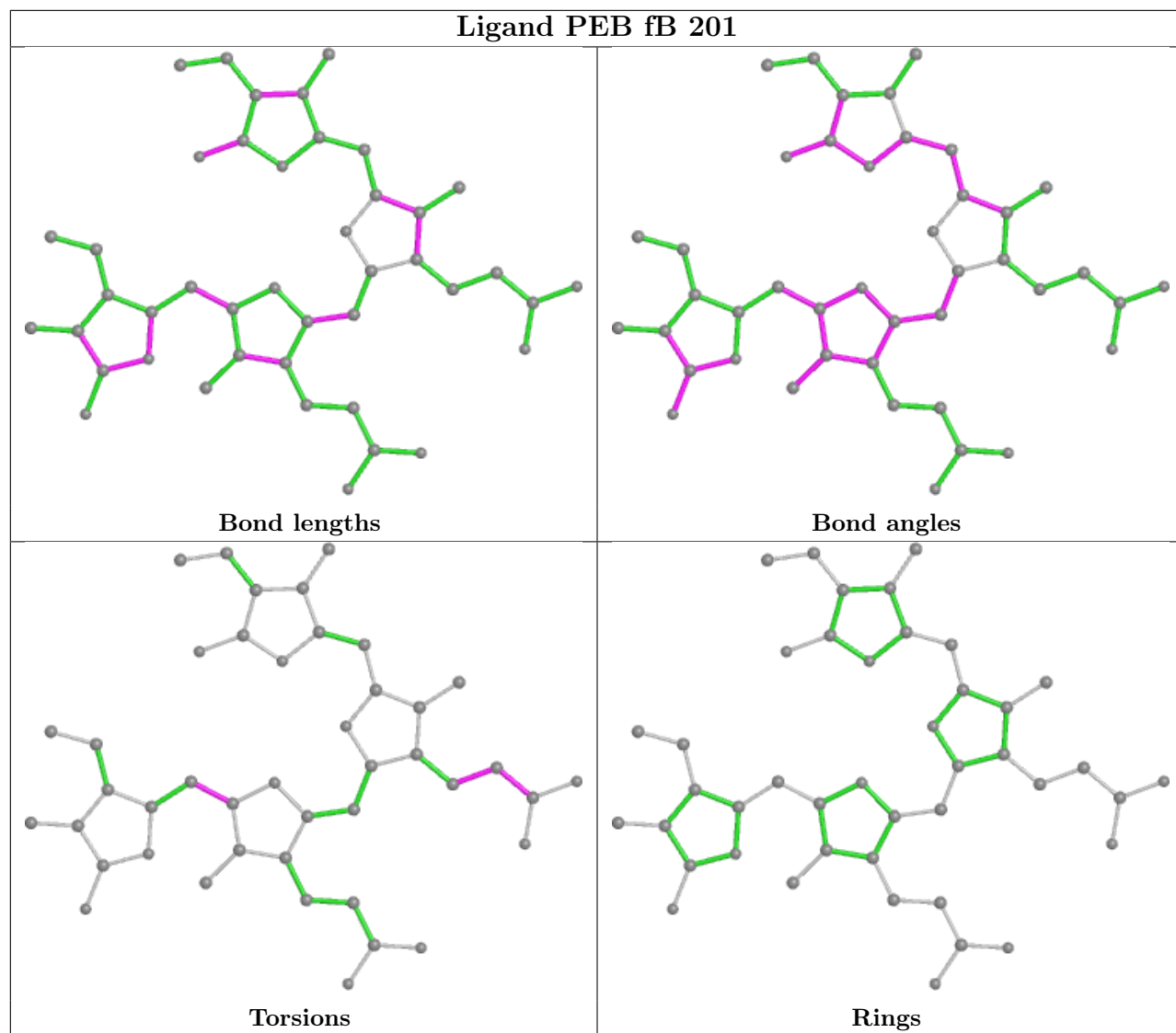


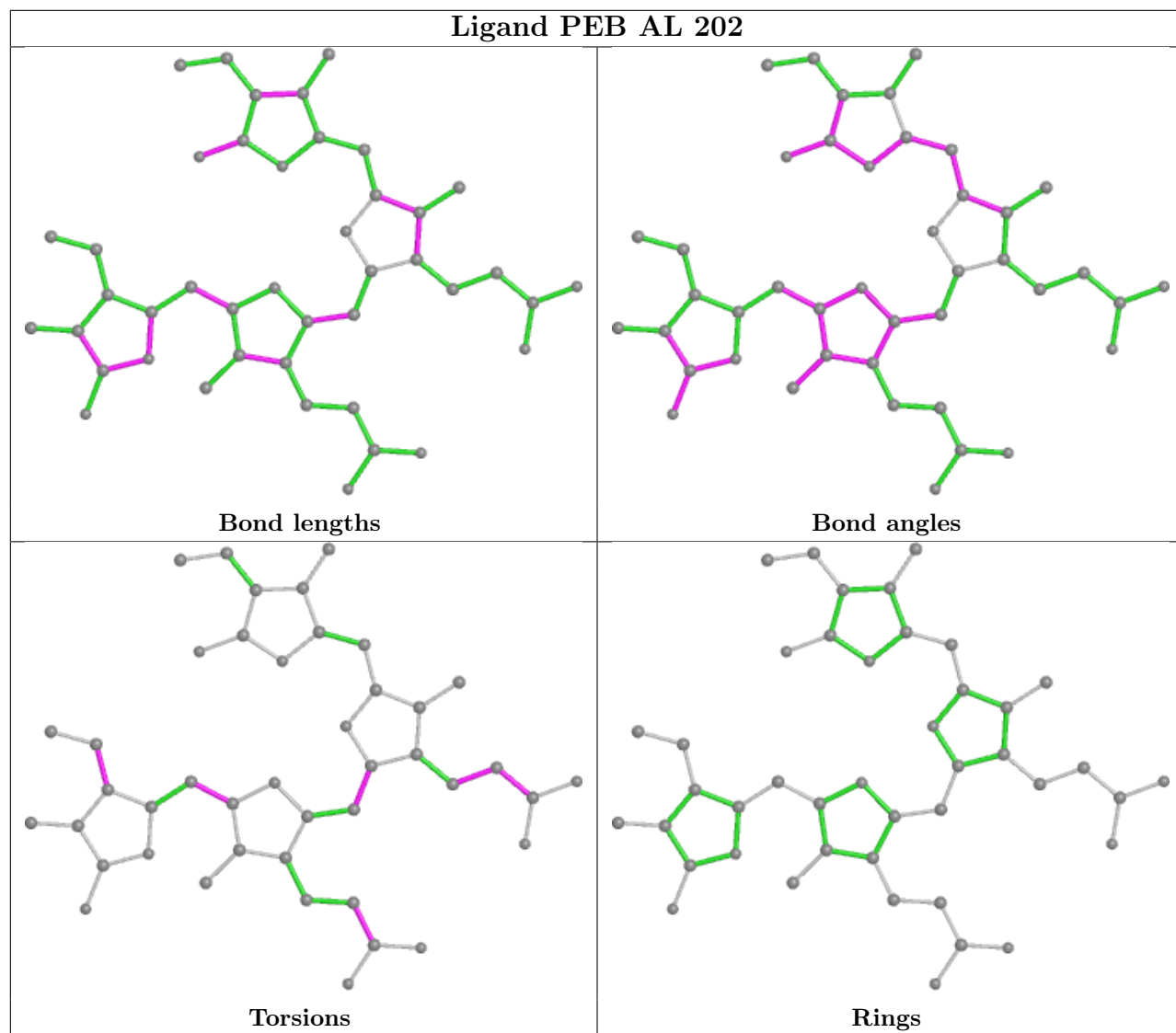
Torsions



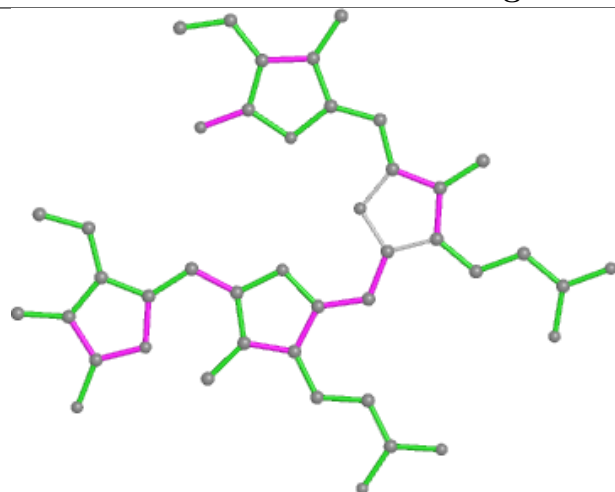
Rings



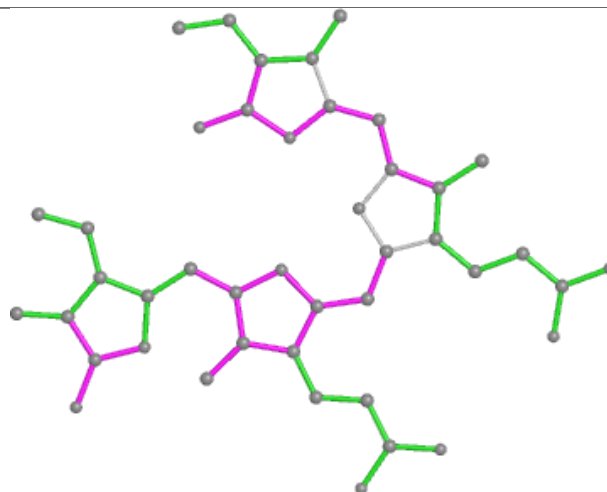




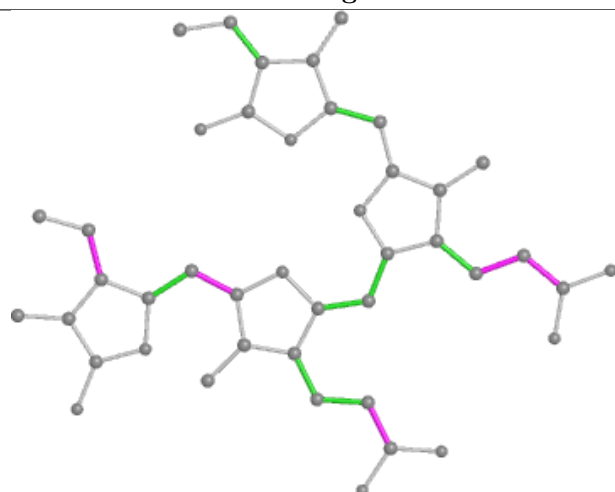
Ligand PEB CO 202



Bond lengths



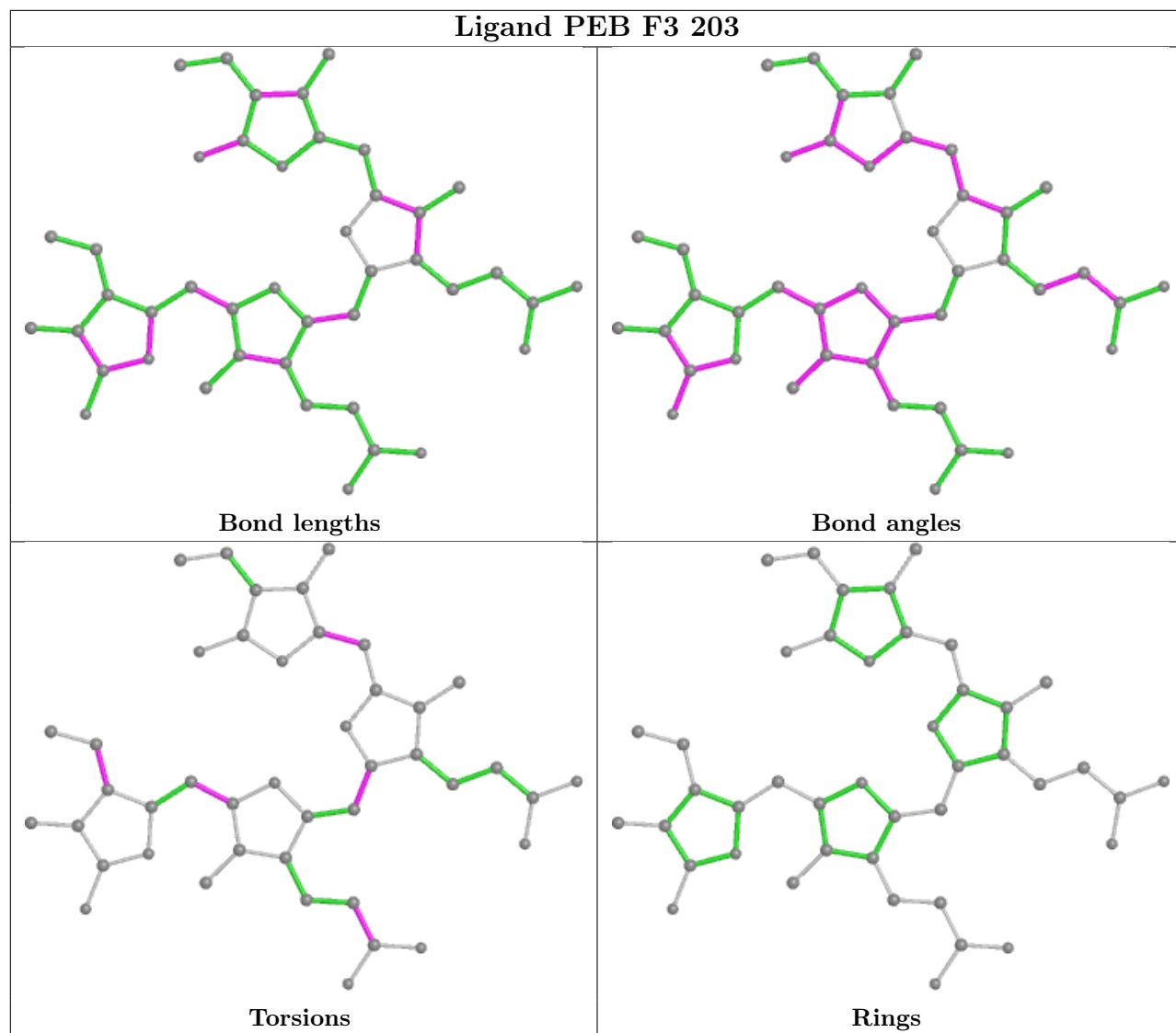
Bond angles

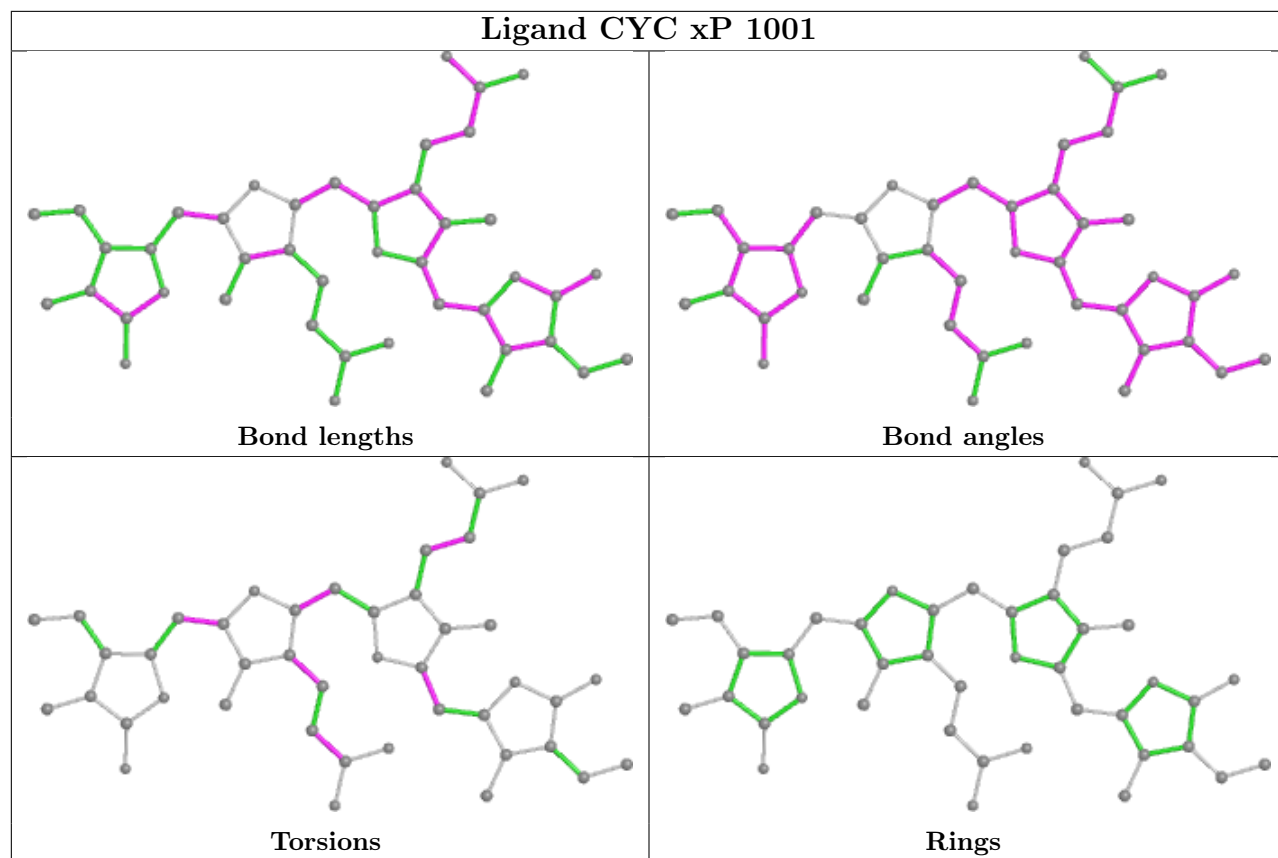


Torsions

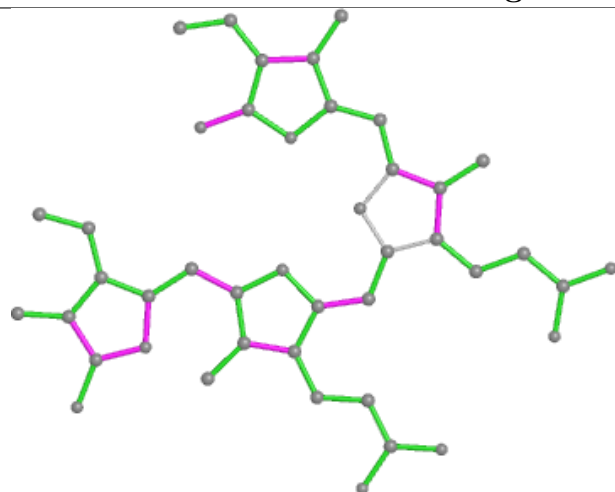


Rings

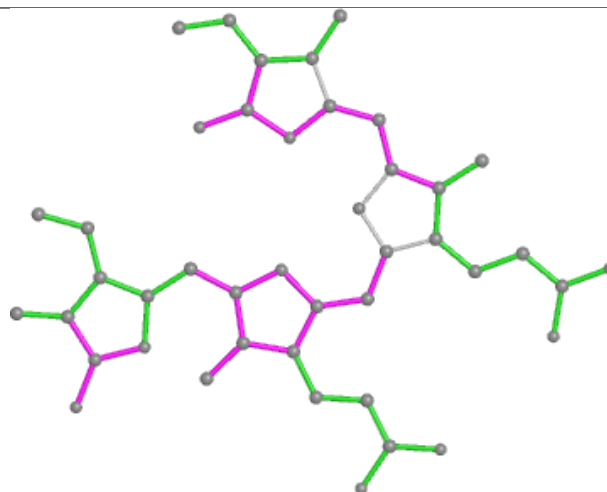




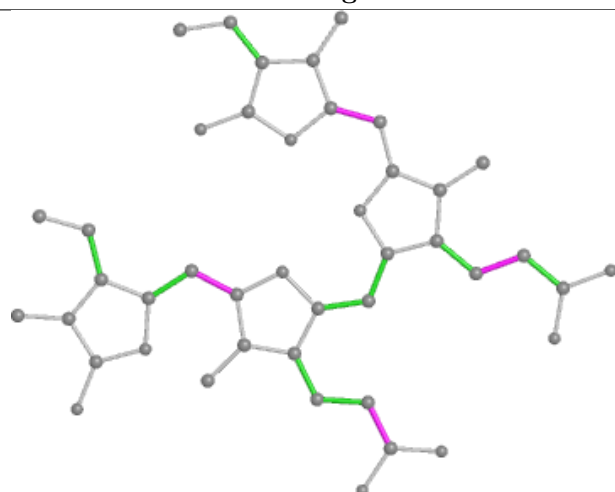
Ligand PEB EC 201



Bond lengths



Bond angles

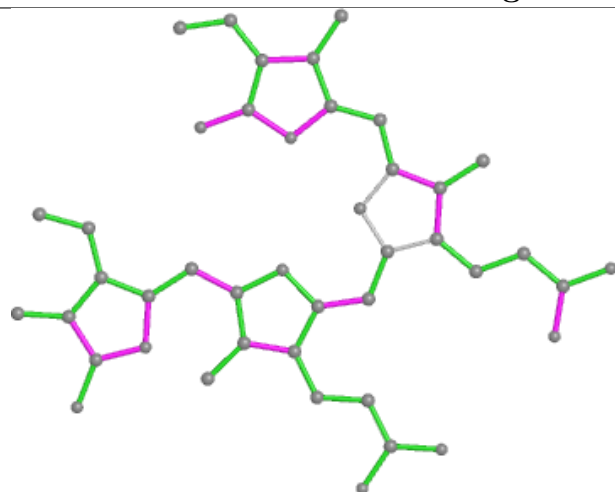


Torsions

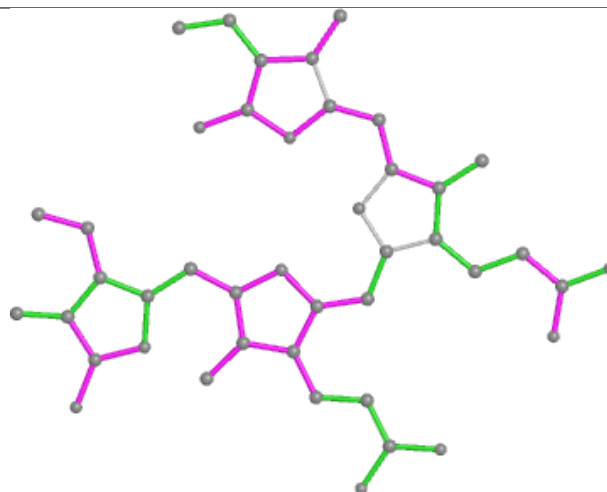


Rings

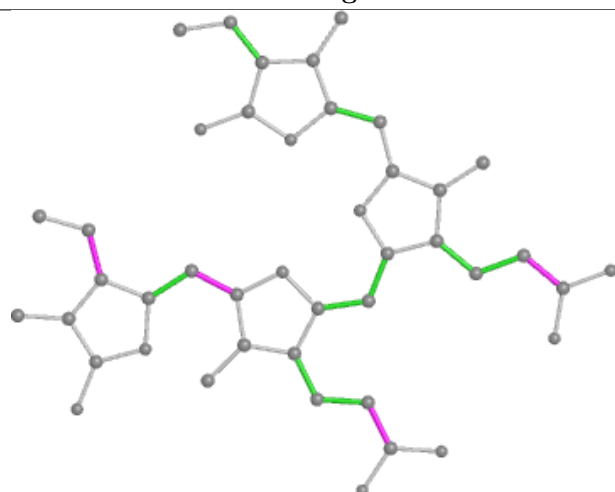
Ligand PEB J1 1002



Bond lengths



Bond angles

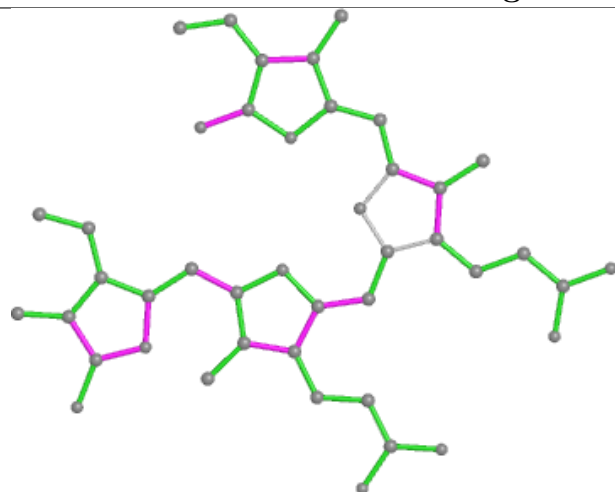


Torsions

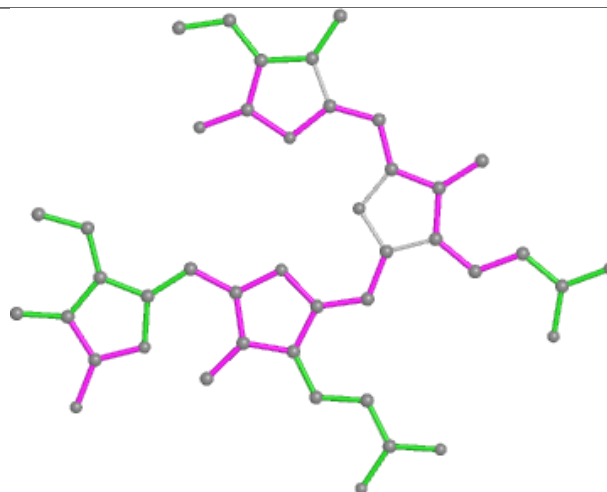


Rings

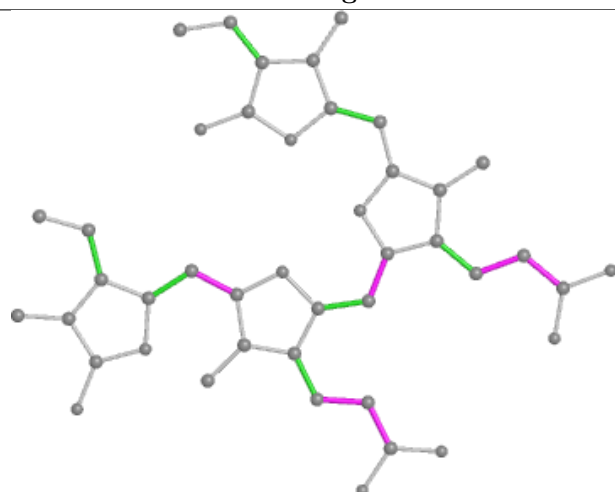
Ligand PEB KB 202



Bond lengths



Bond angles

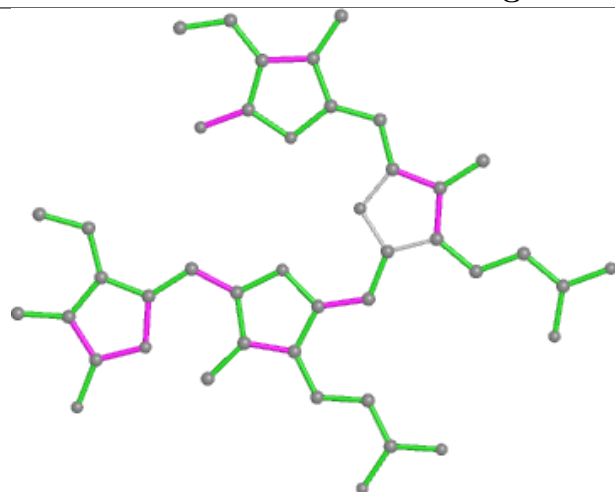


Torsions

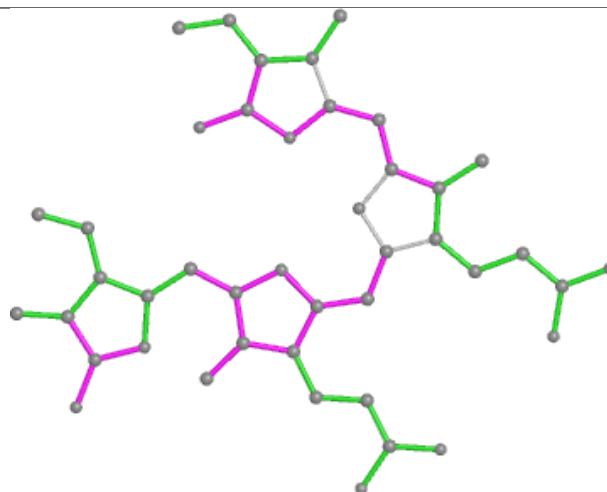


Rings

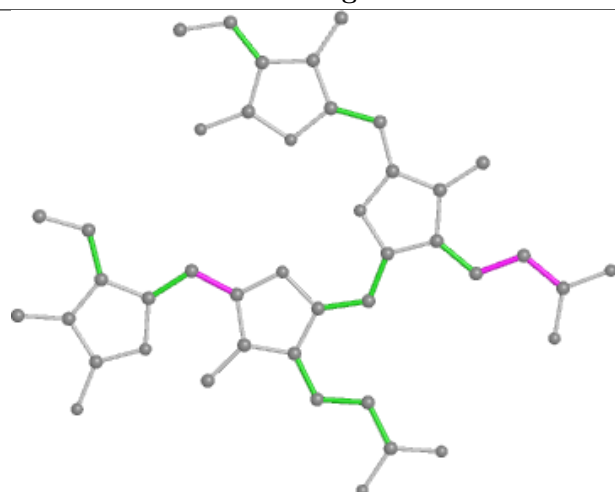
Ligand PEB KB 201



Bond lengths



Bond angles

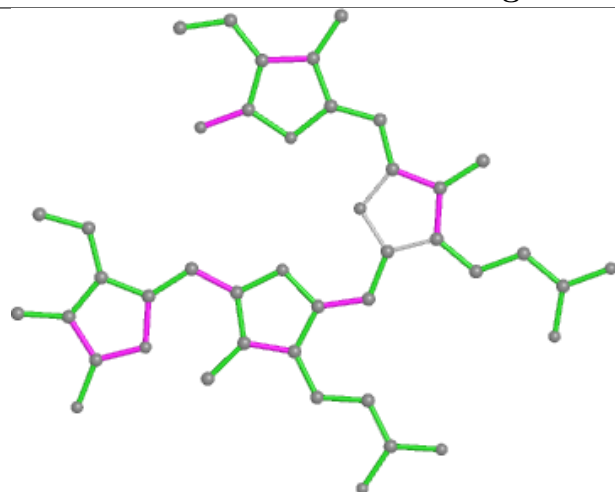


Torsions

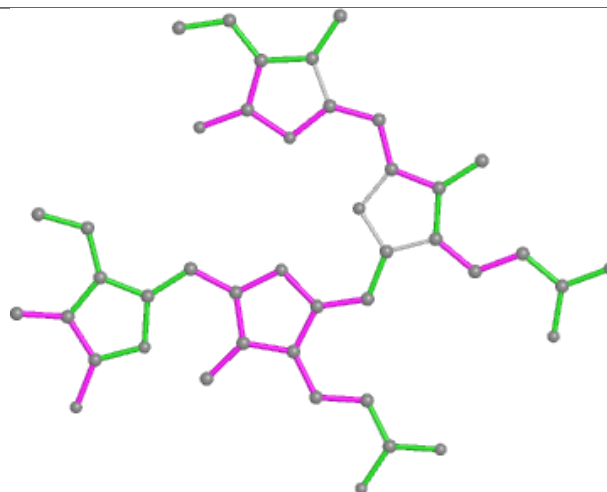


Rings

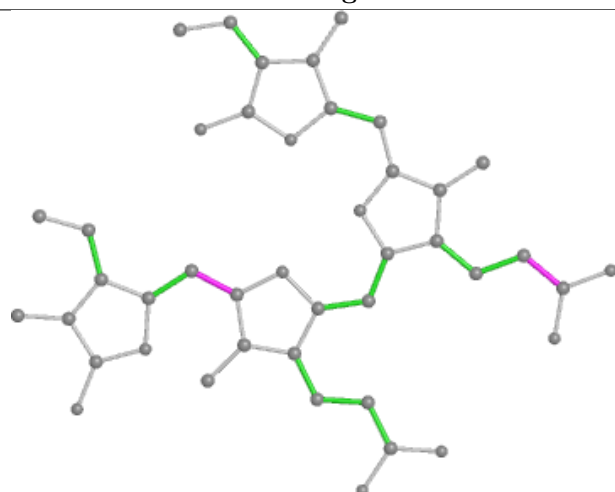
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Bond lengths



Bond angles

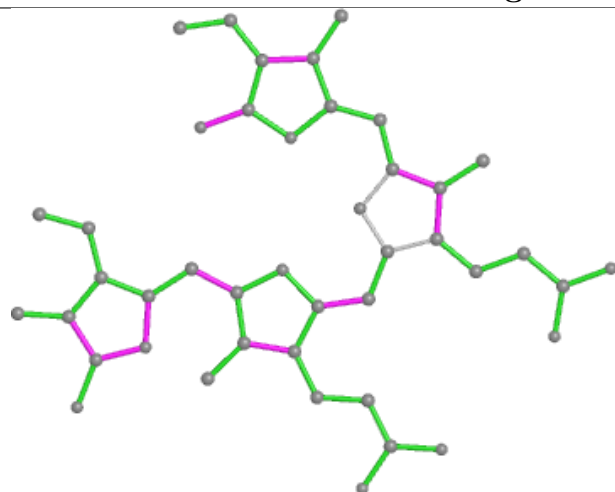


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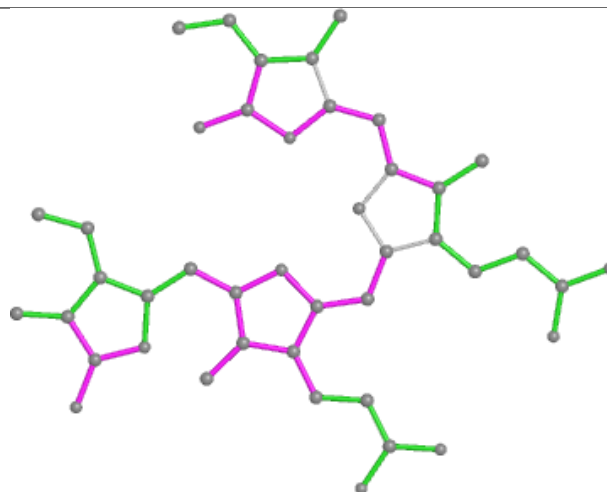


Rings

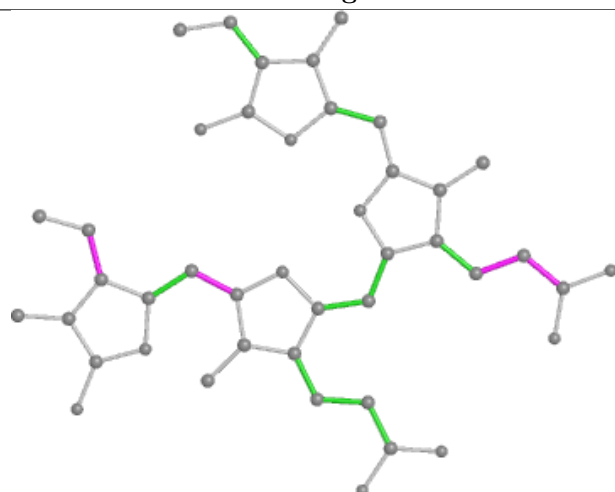
Ligand PEB VF 202



Bond lengths



Bond angles

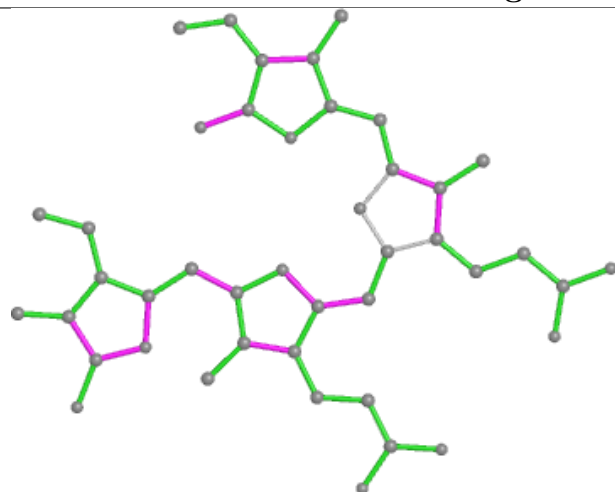


Torsions

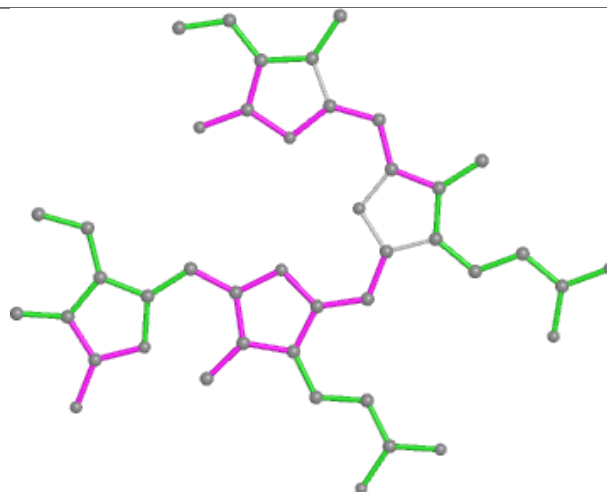


Rings

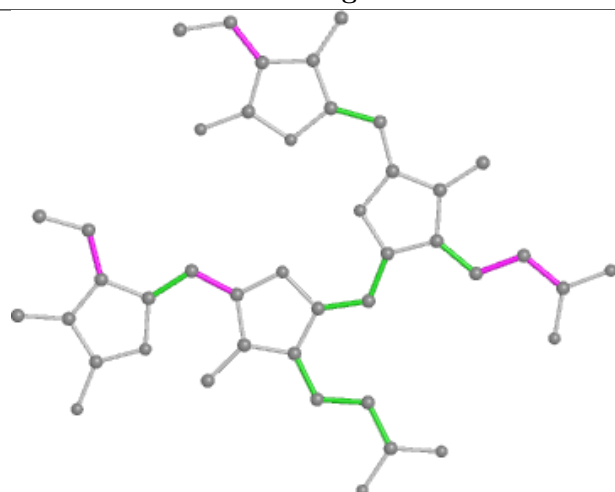
Ligand PEB HL 201



Bond lengths



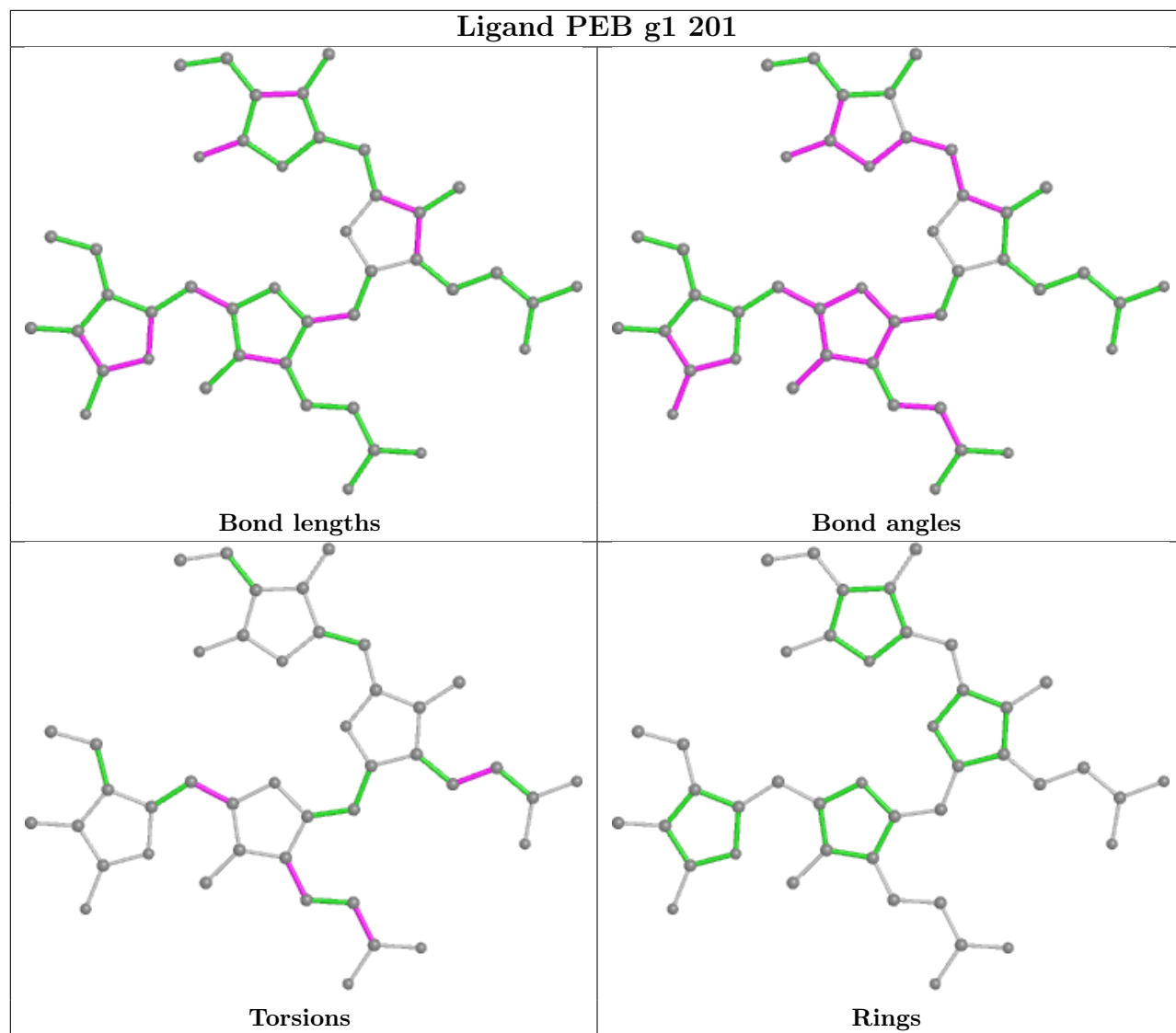
Bond angles



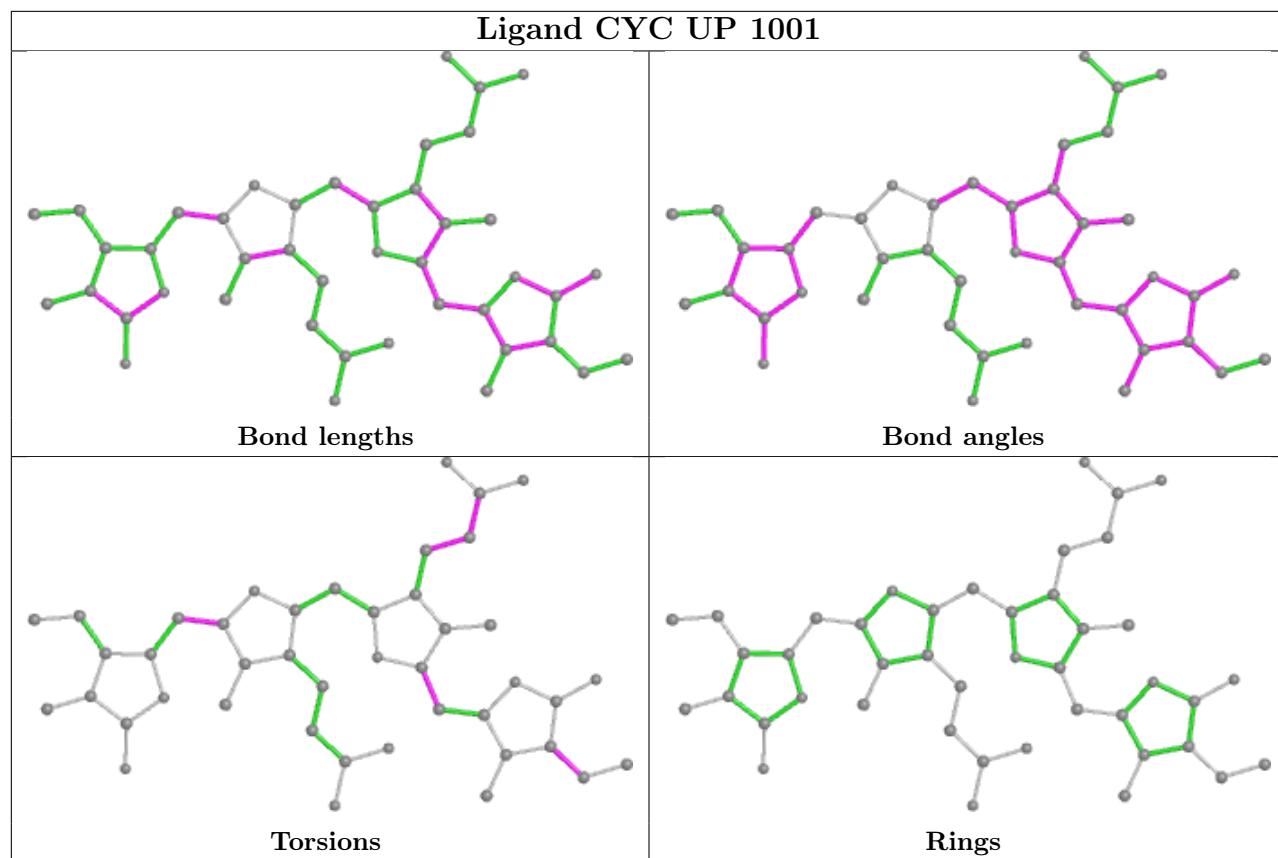
Torsions



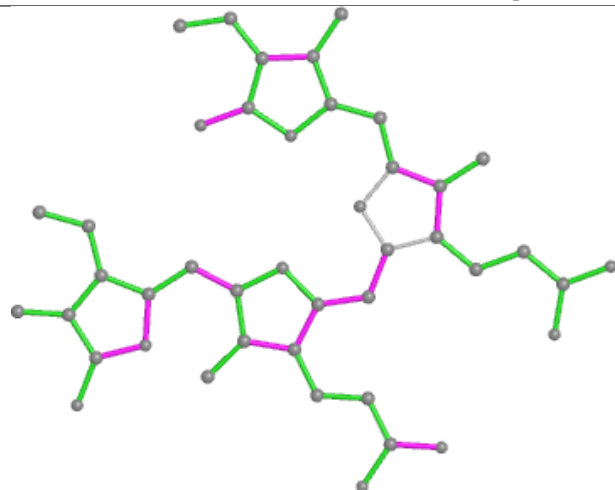
Rings



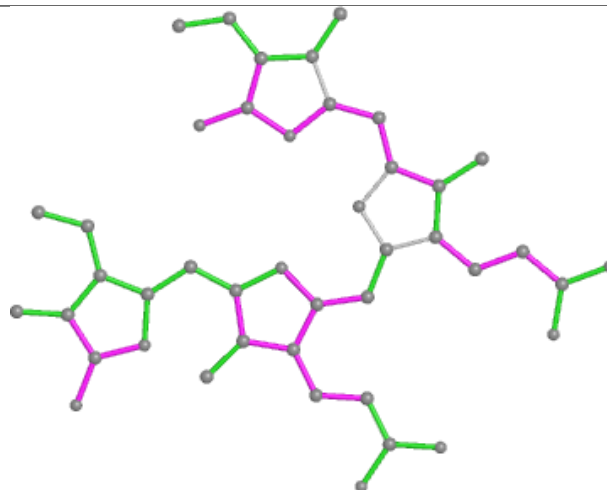
Ligand CYC UP 1001



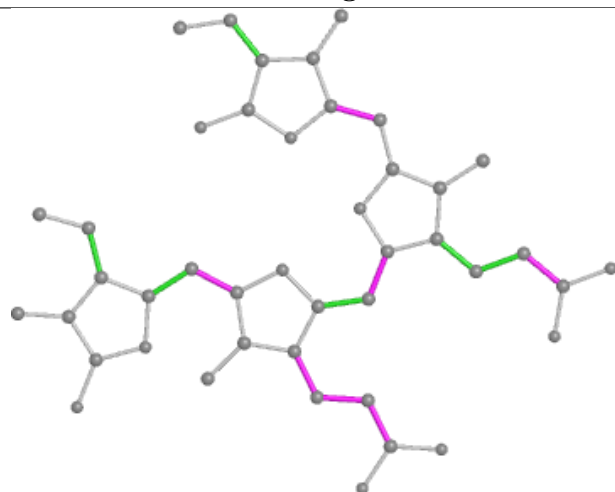
Ligand PEB V9 203



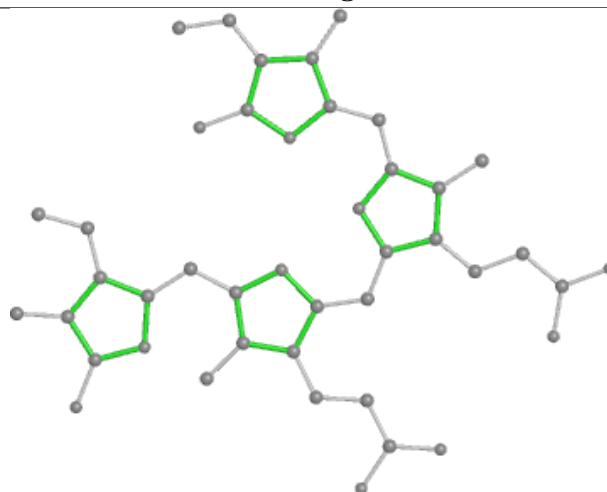
Bond lengths



Bond angles

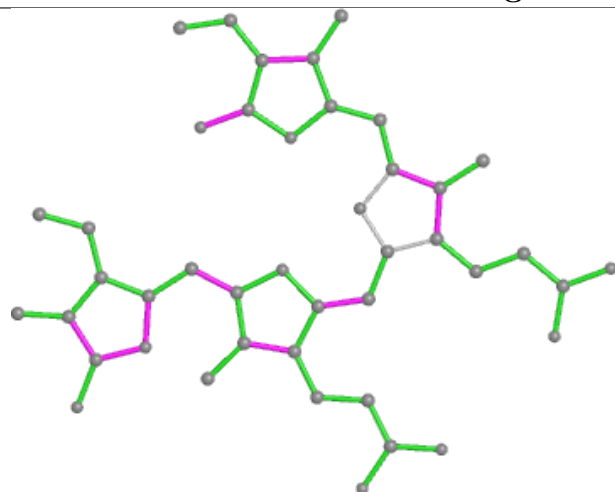


Torsions

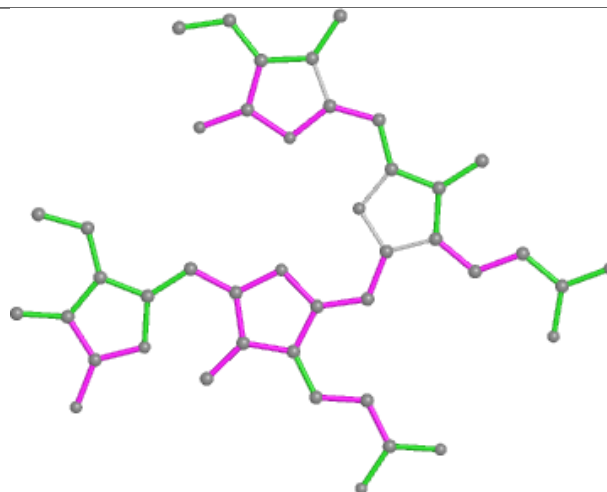


Rings

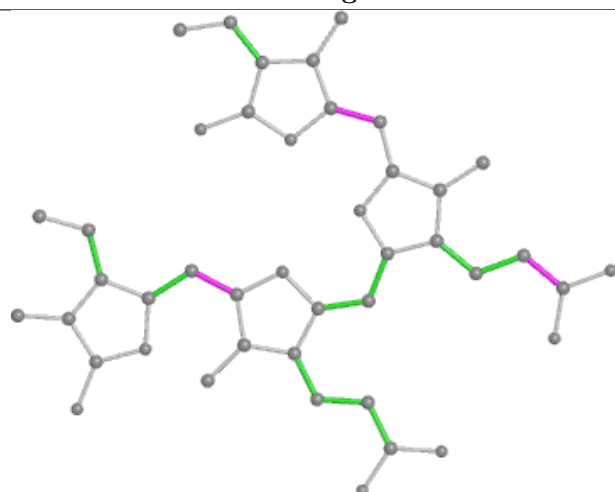
Ligand PEB eM 201



Bond lengths



Bond angles

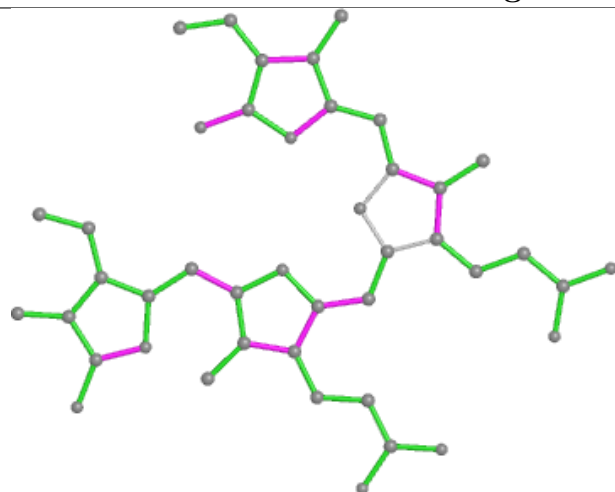


Torsions

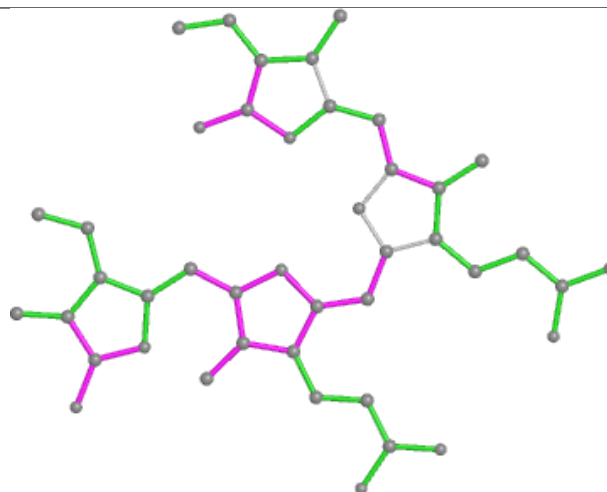


Rings

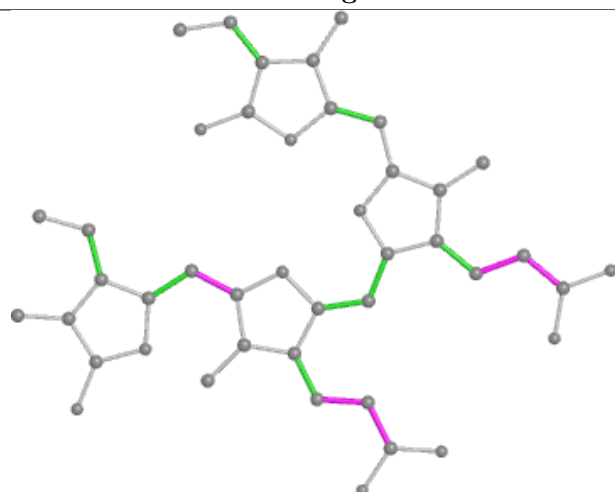
Ligand PEB KE 203



Bond lengths



Bond angles

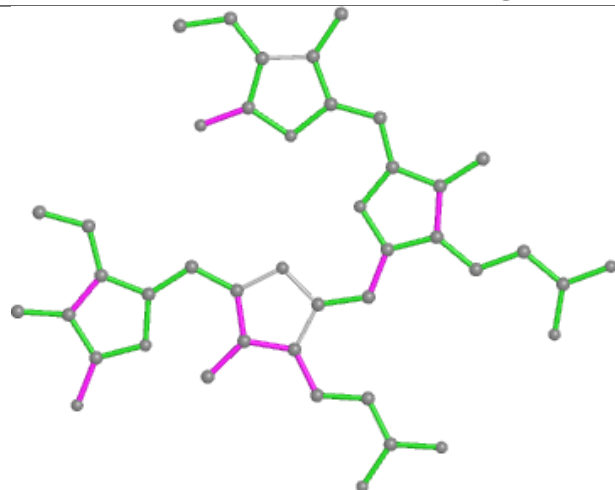


Torsions

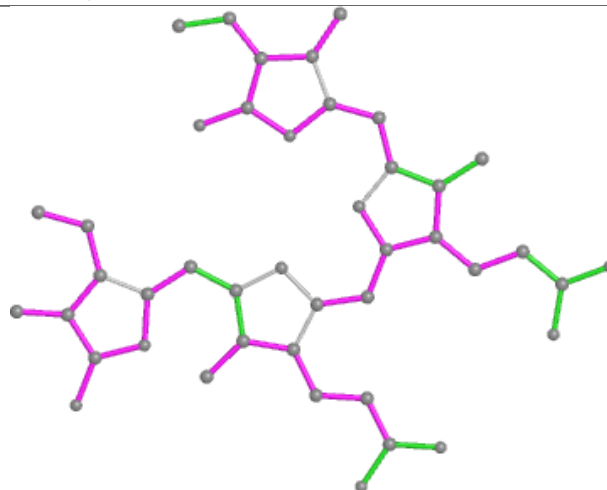


Rings

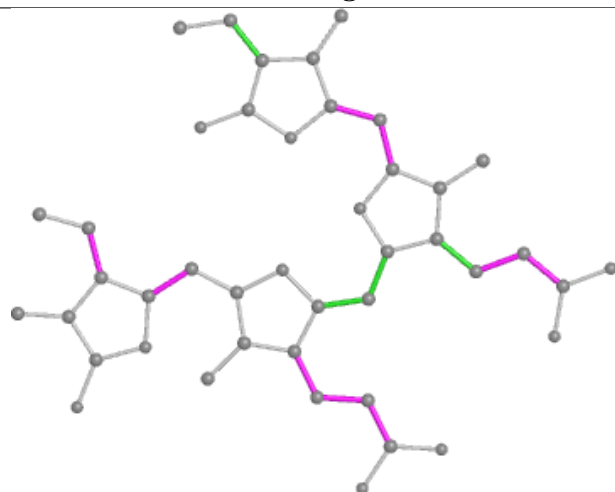
Ligand PUB MQ 404



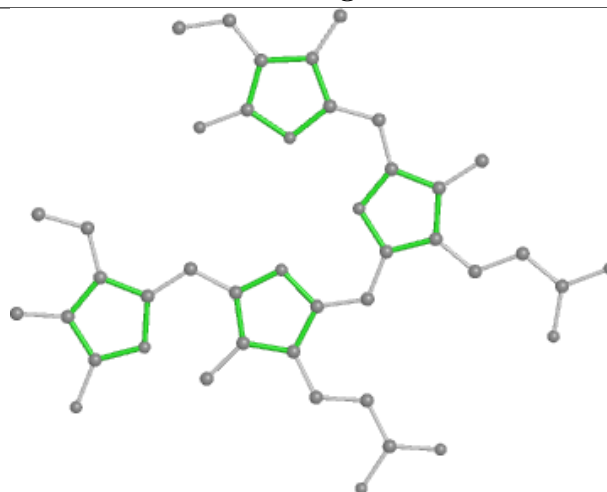
Bond lengths



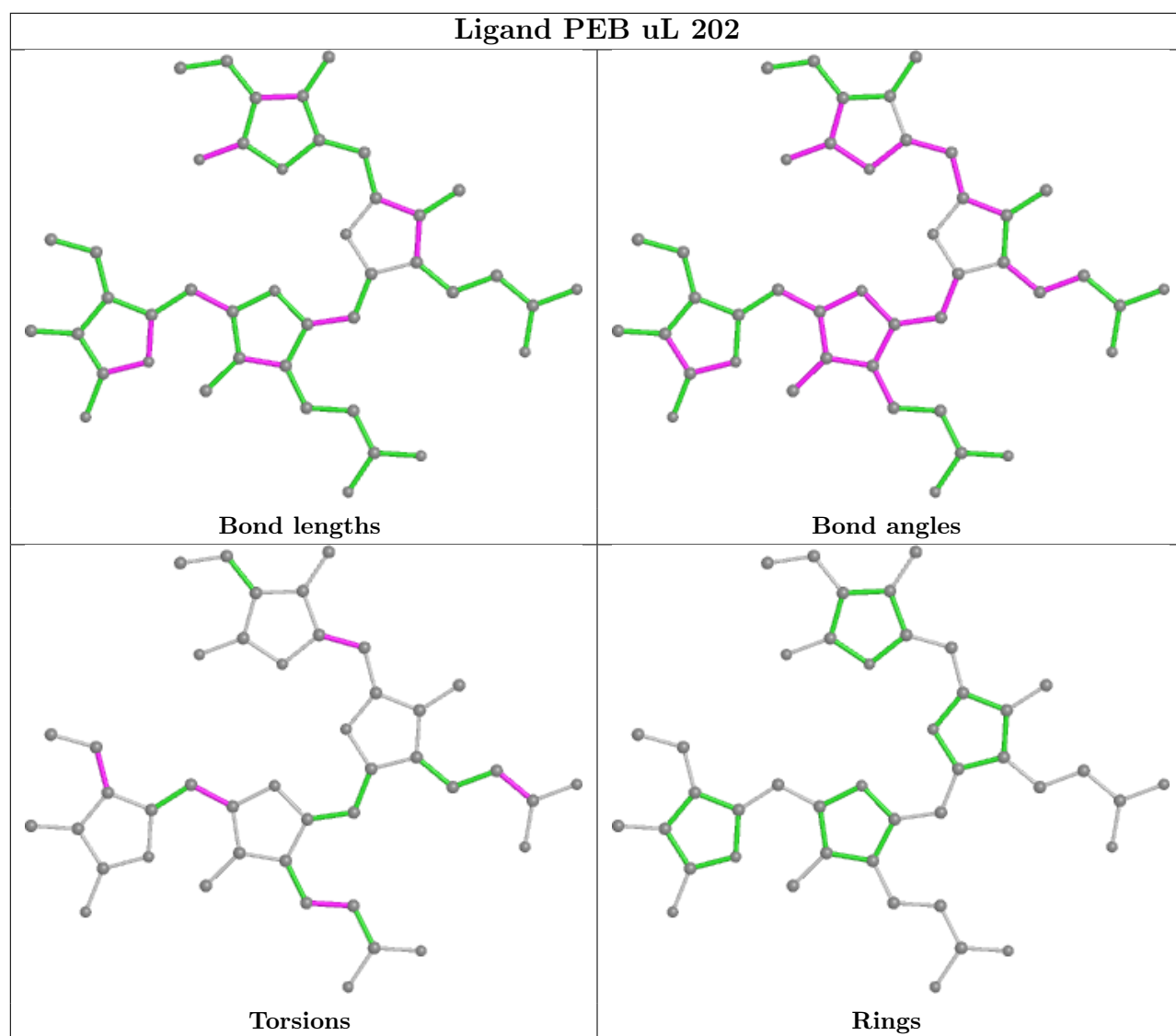
Bond angles

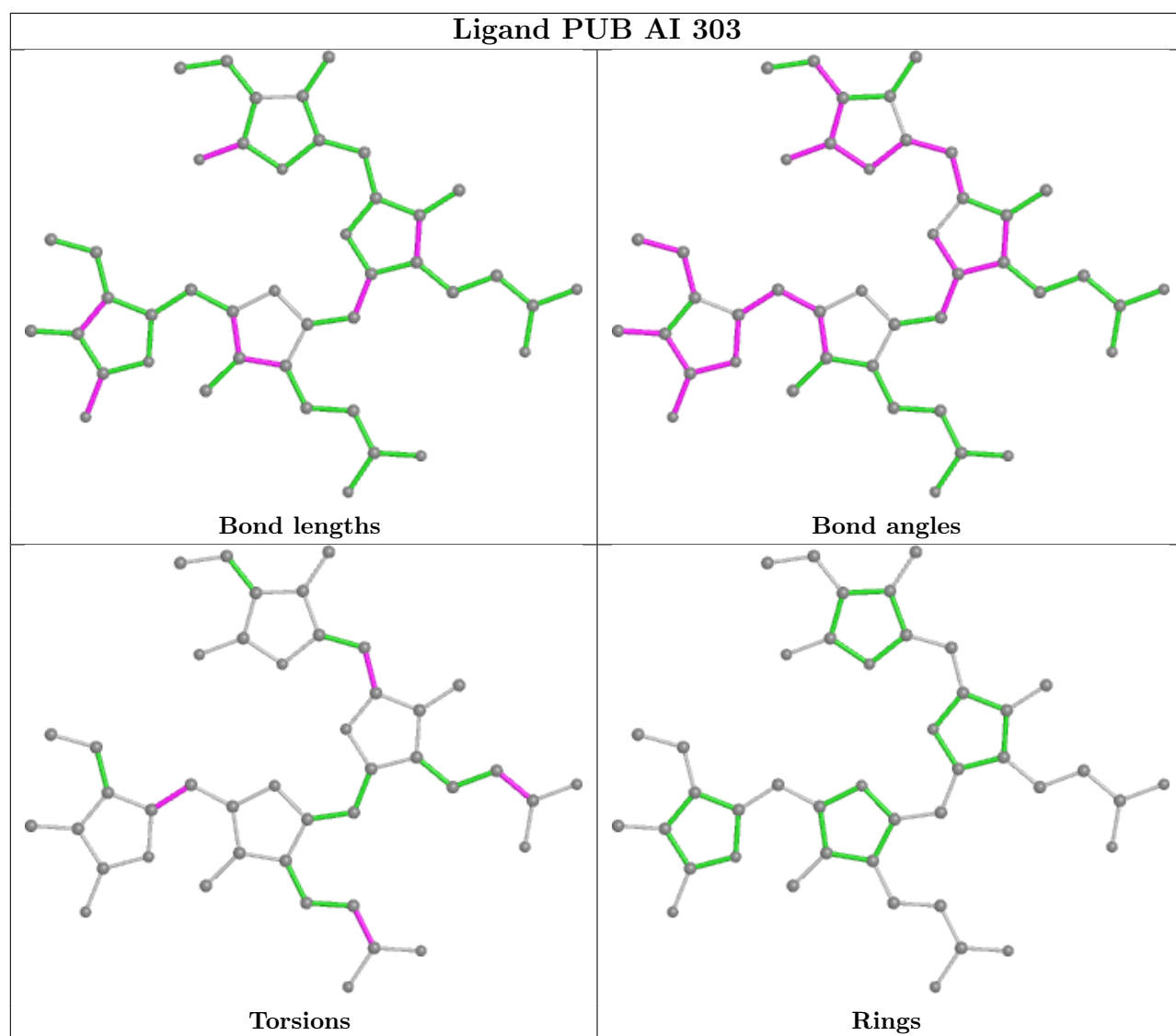


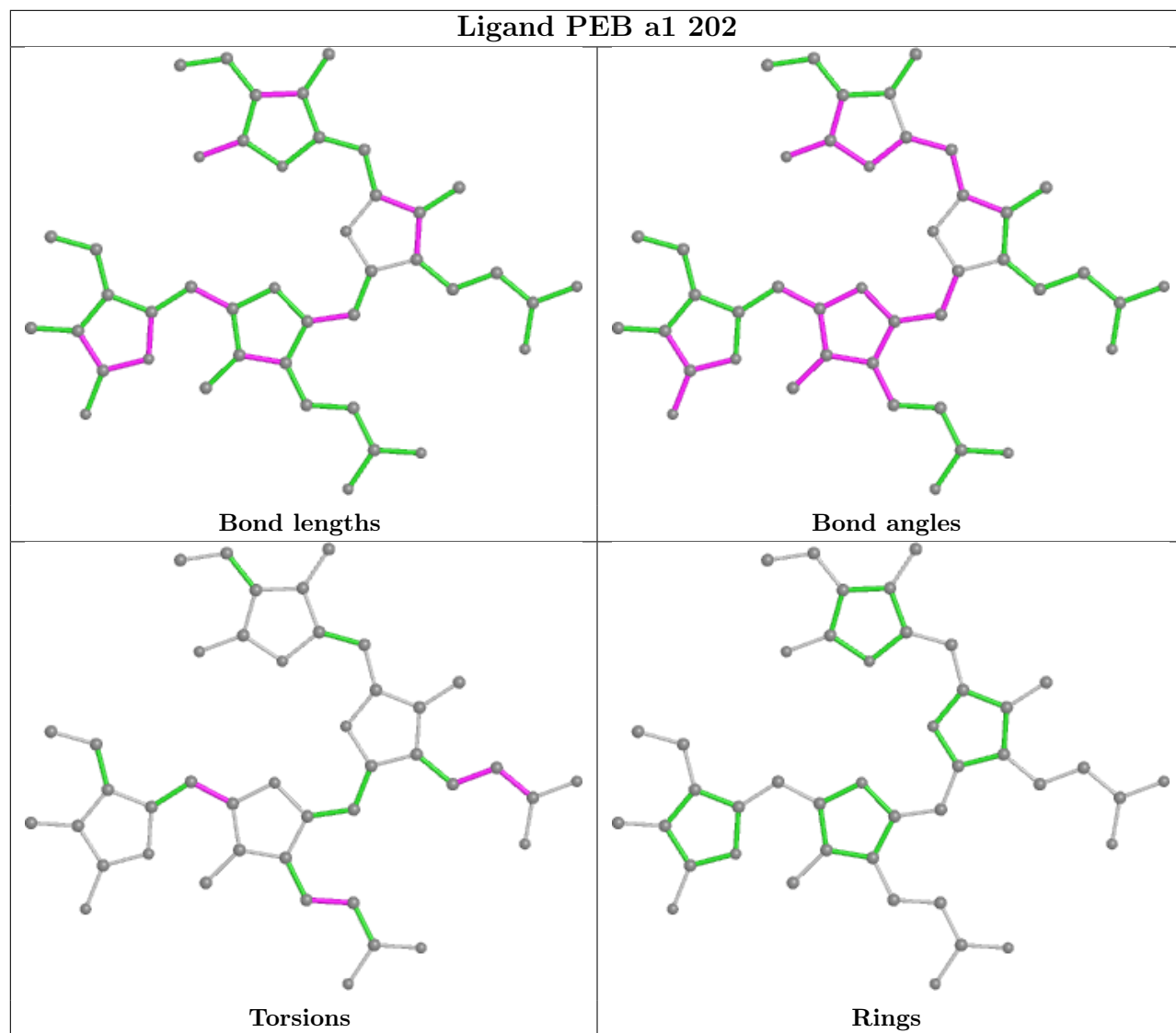
Torsions



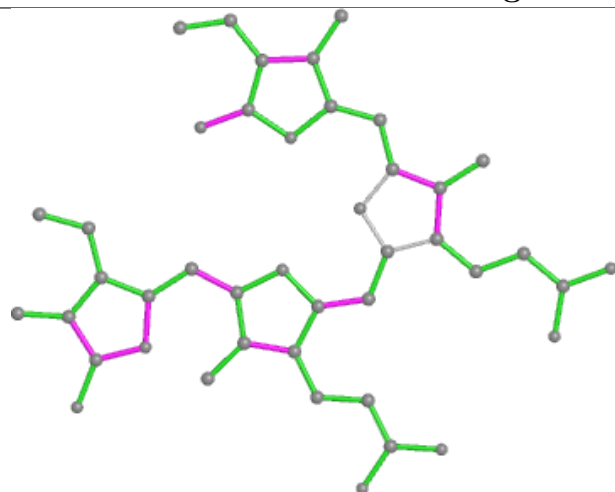
Rings



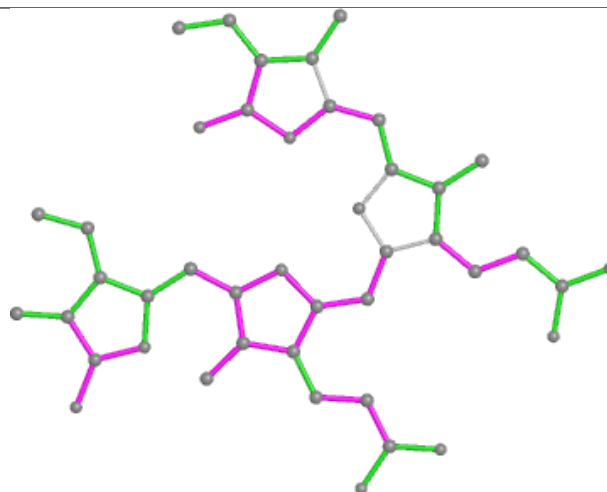




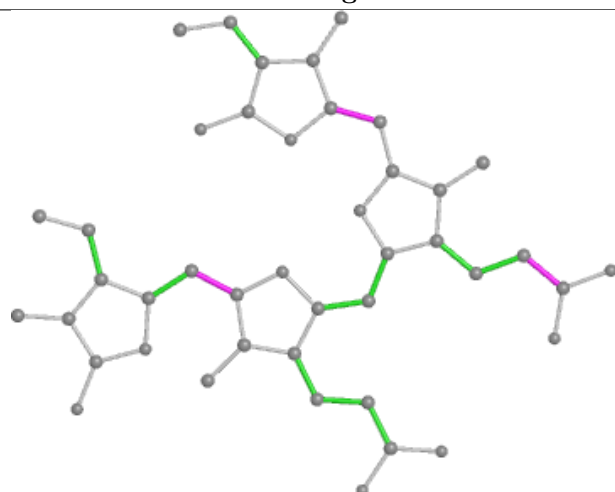
Ligand PEB kM 201



Bond lengths



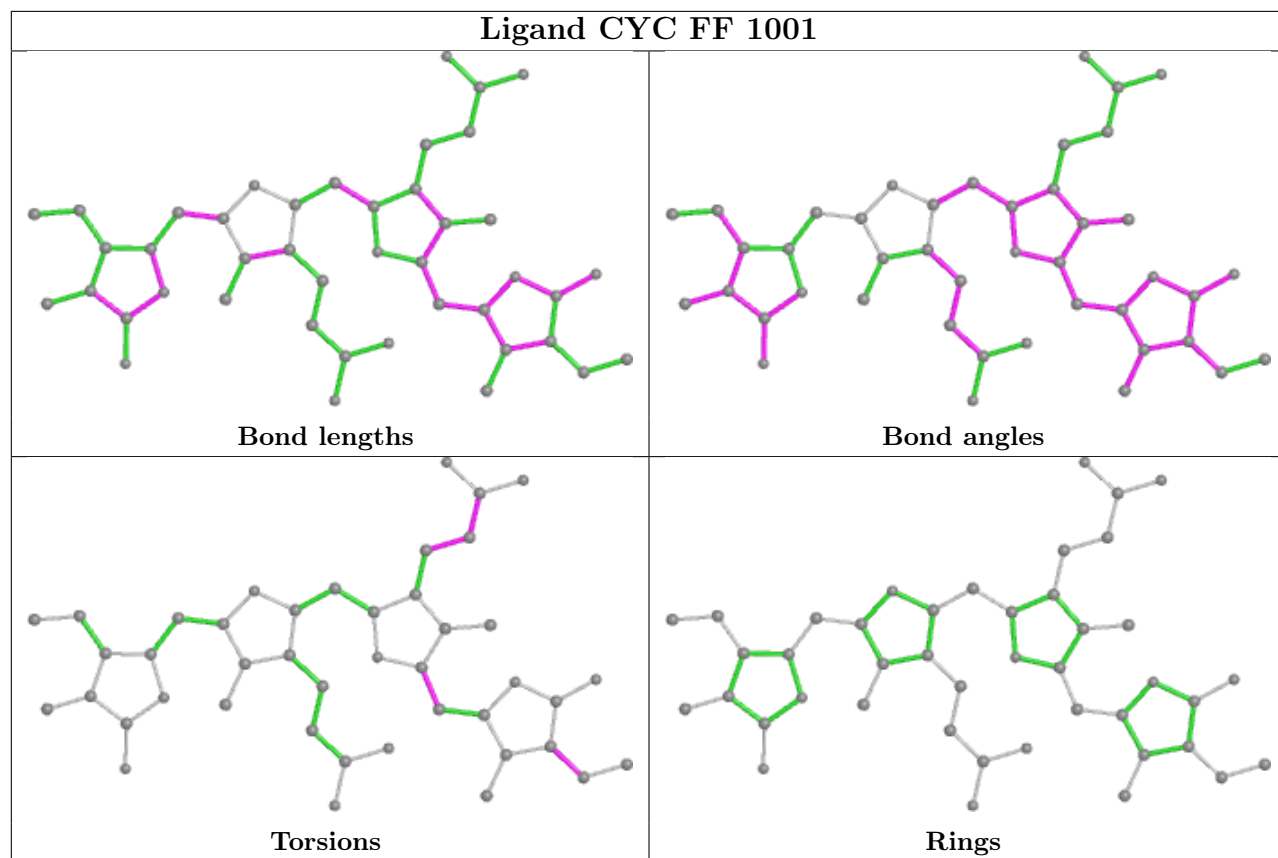
Bond angles



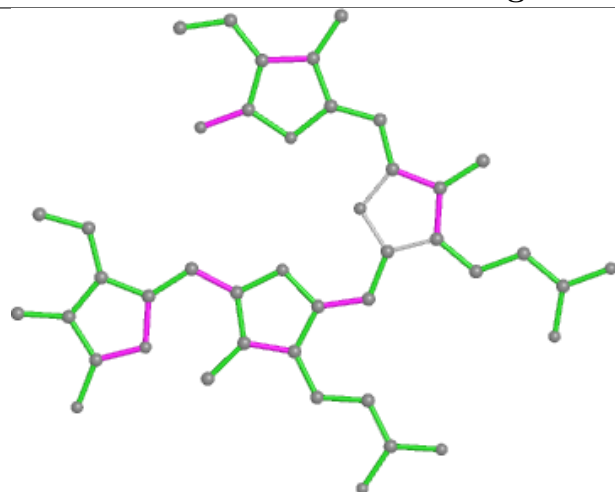
Torsions



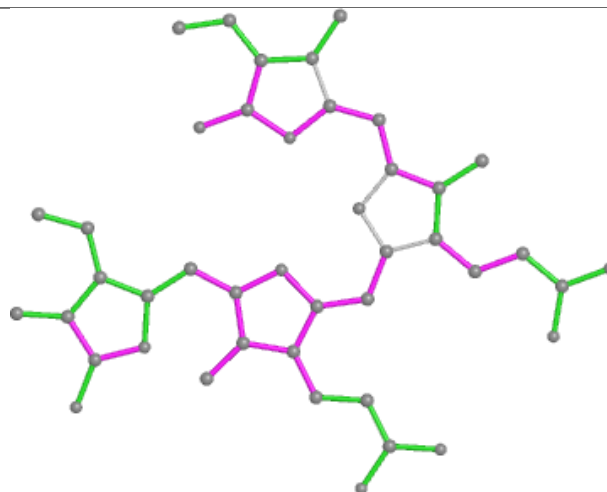
Rings



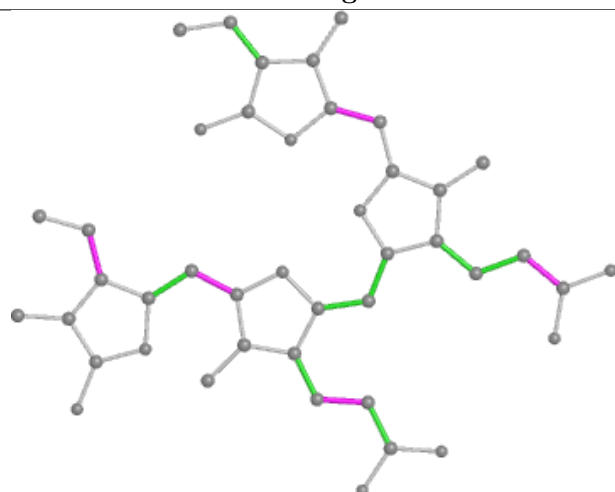
Ligand PEB CJ 201



Bond lengths



Bond angles

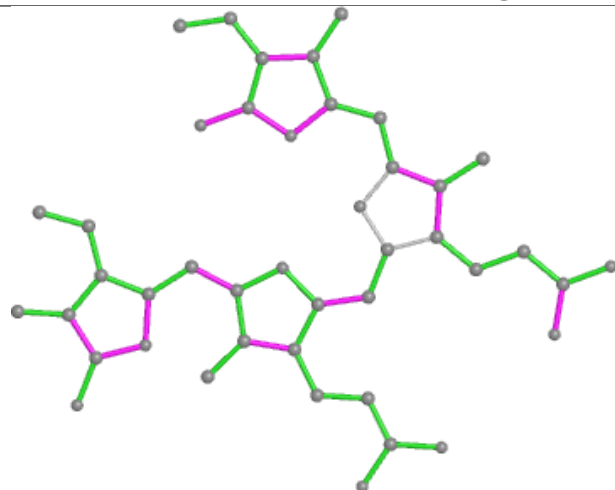


Torsions

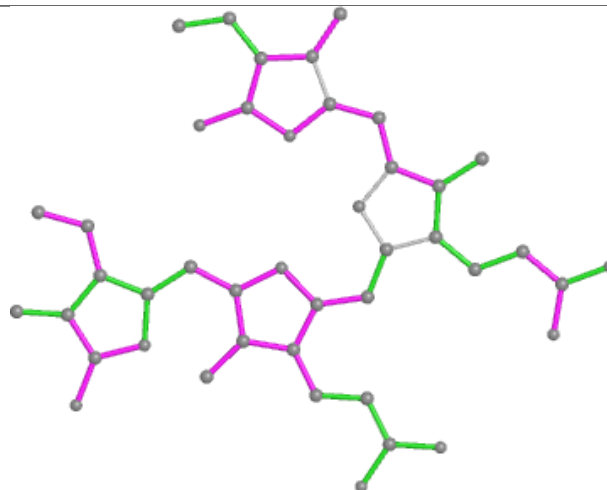


Rings

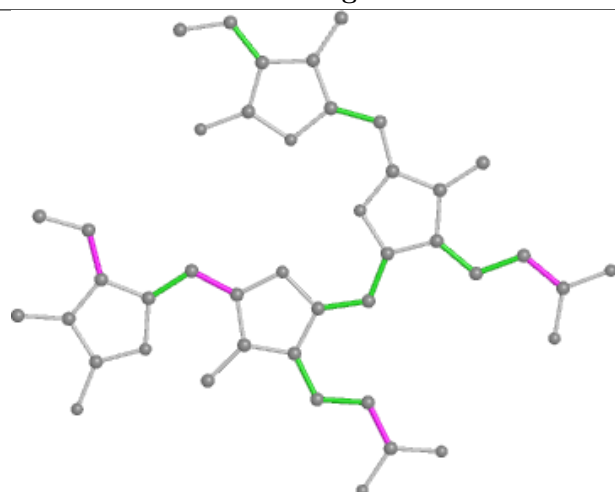
Ligand PEB FK 1002



Bond lengths



Bond angles

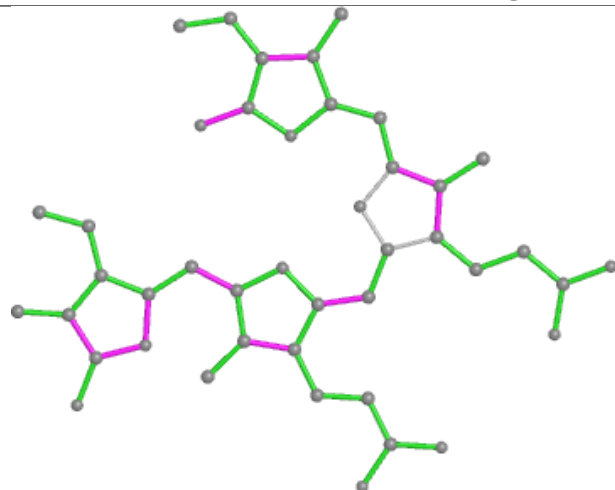


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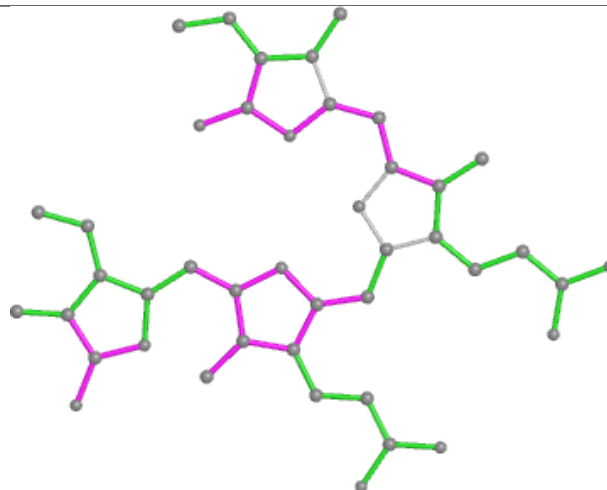


Rings

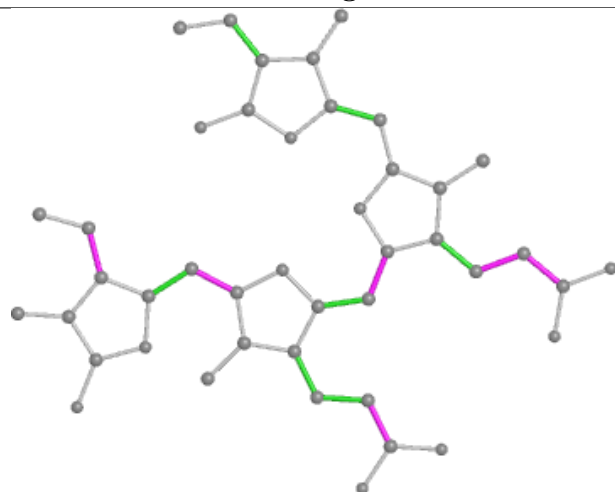
Ligand PEB KL 202



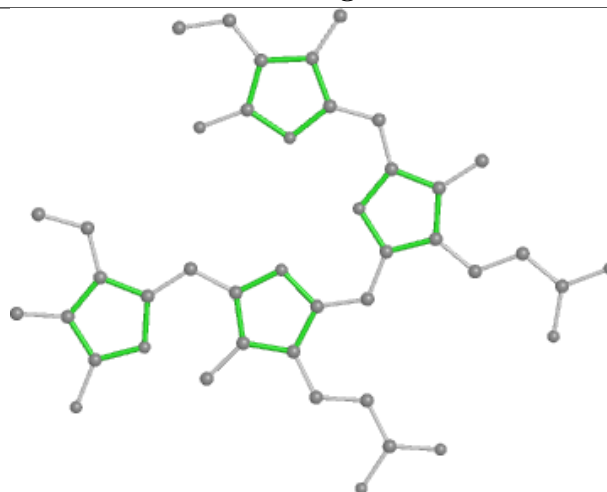
Bond lengths



Bond angles

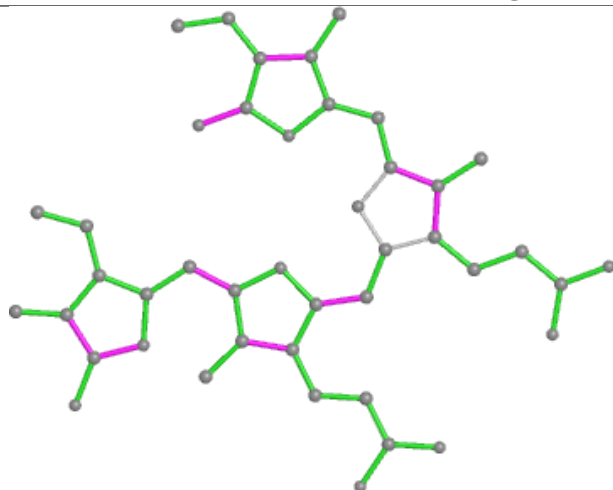


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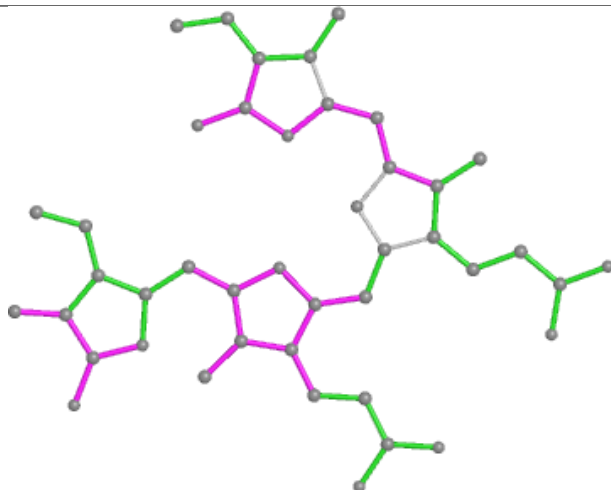


Rings

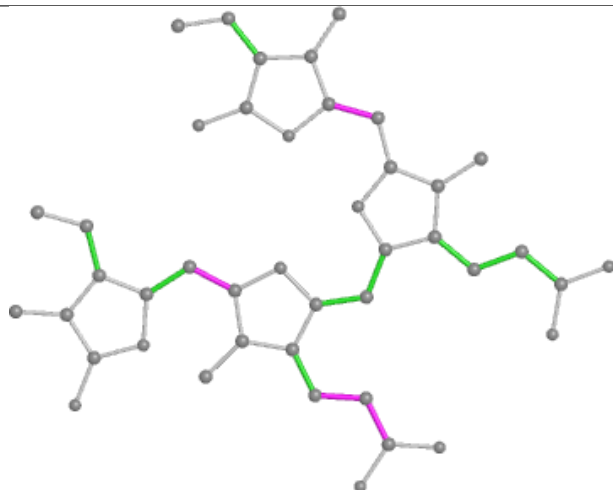
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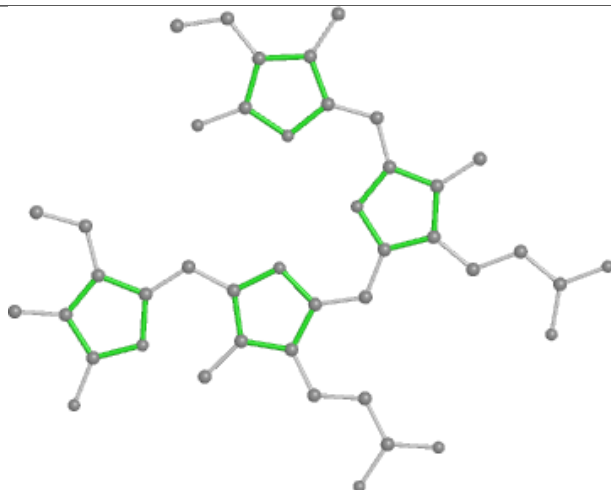
Bond lengths



Bond angles

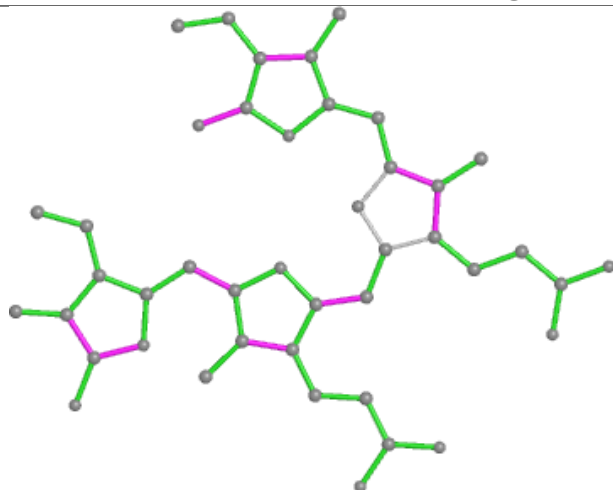


Torsions

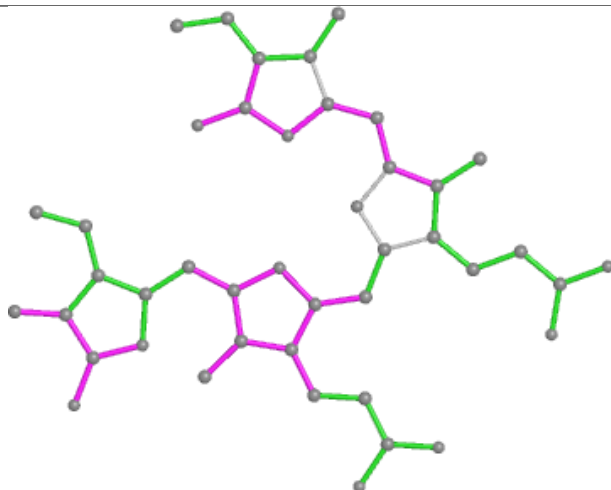


Rings

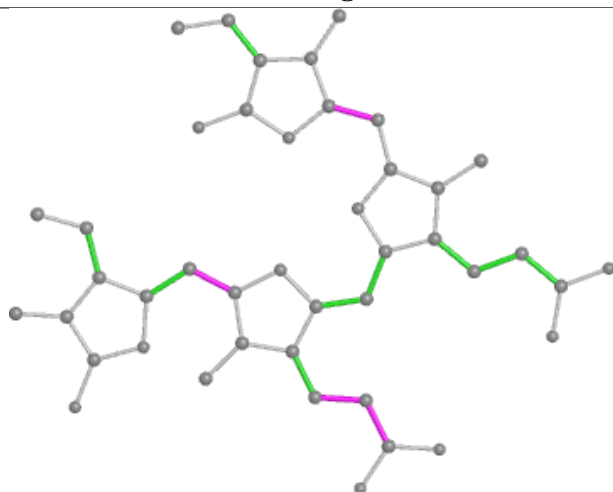
Ligand PEB R1 203



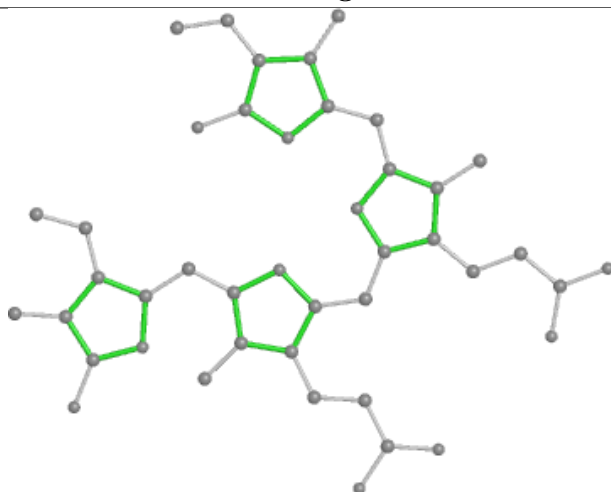
Bond lengths



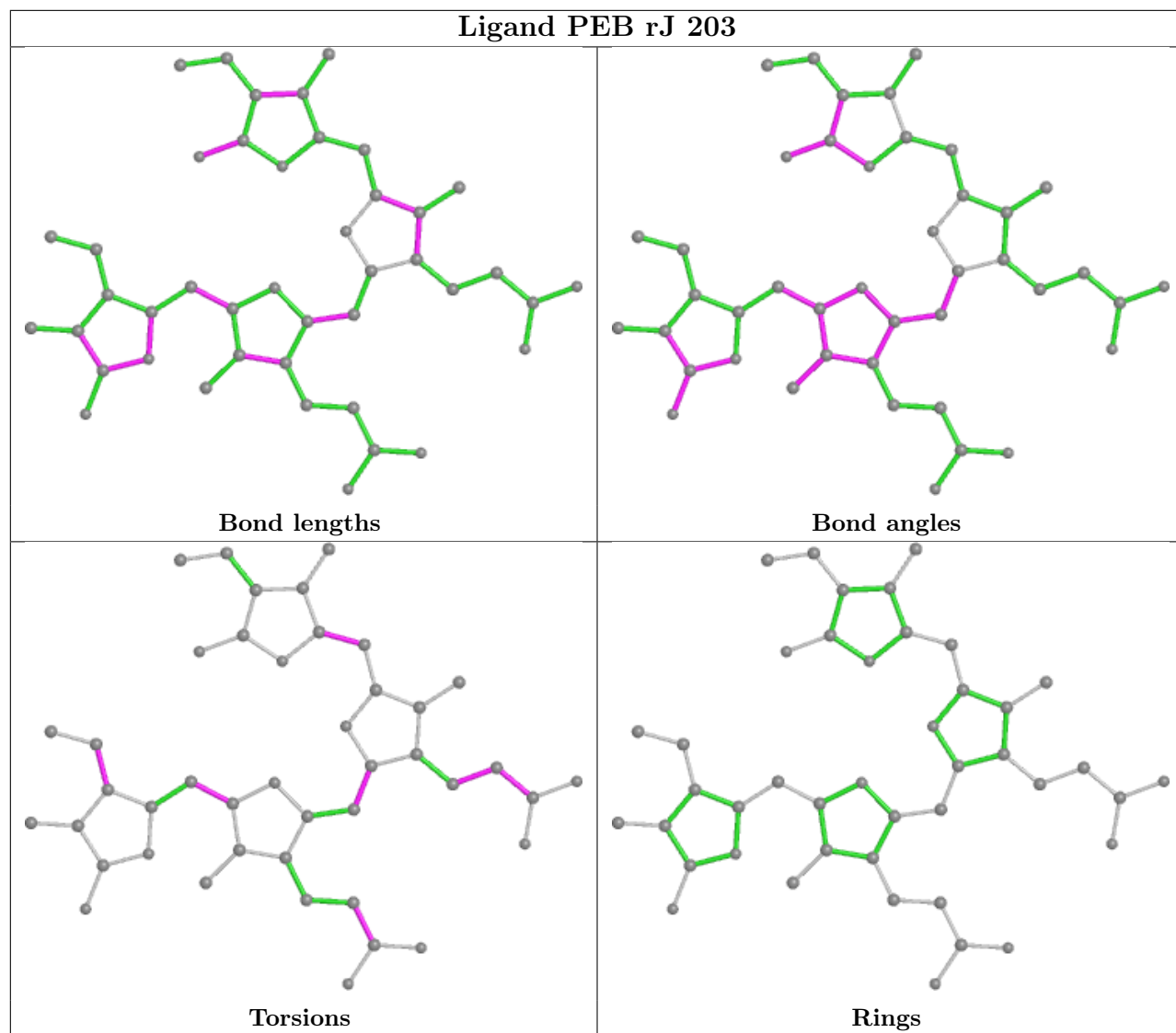
Bond angles



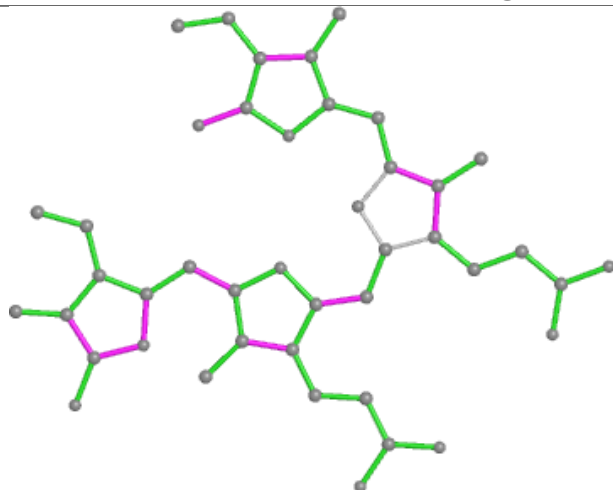
Torsions



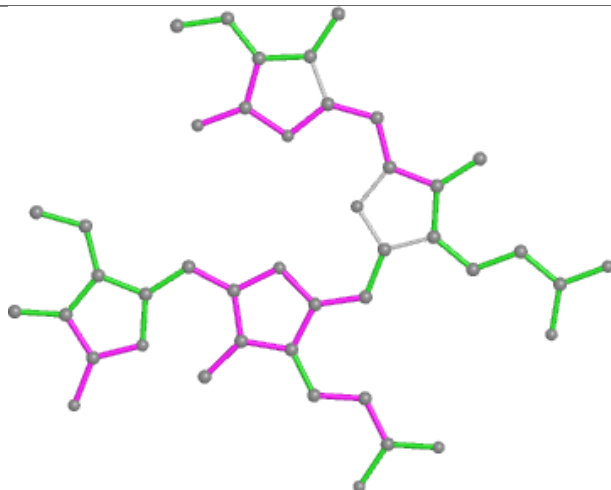
Rings



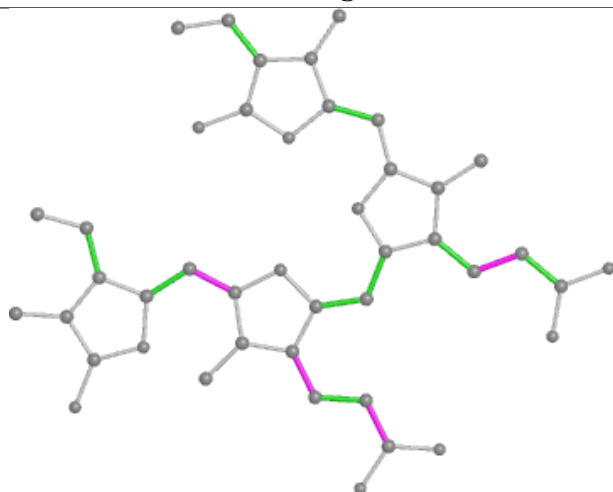
Ligand PEB mK 201



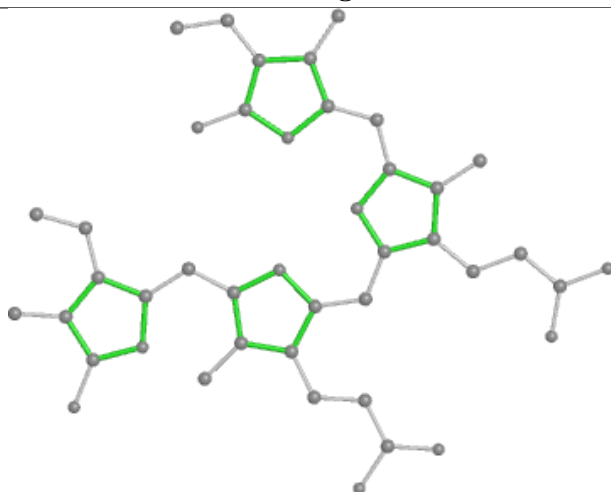
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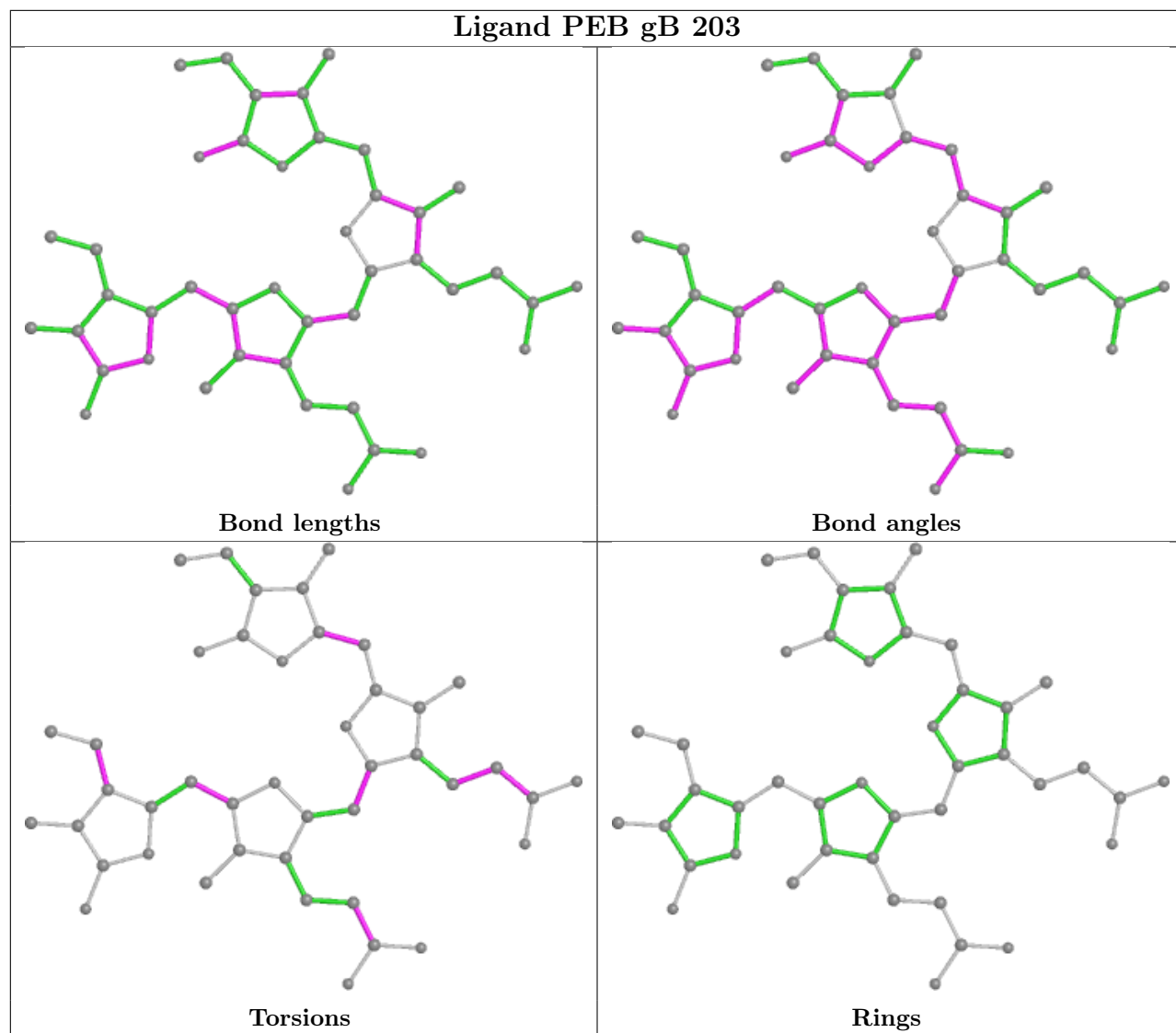
Bond angles



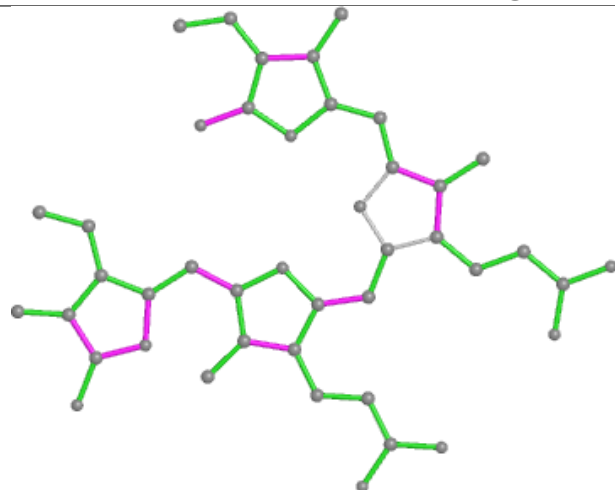
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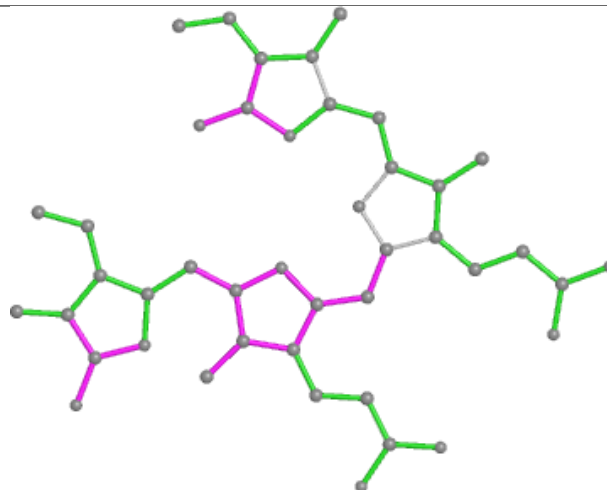
Rings



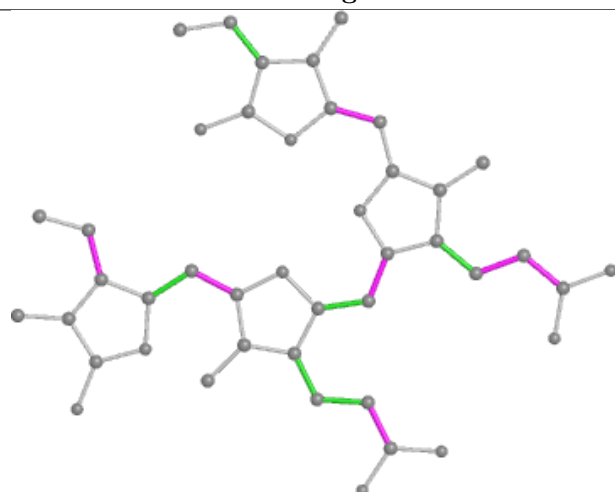
Ligand PEB BL 203



Bond lengths



Bond angles

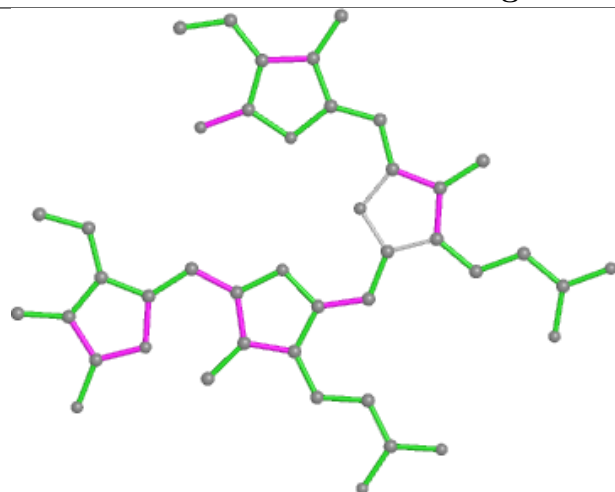


Torsions

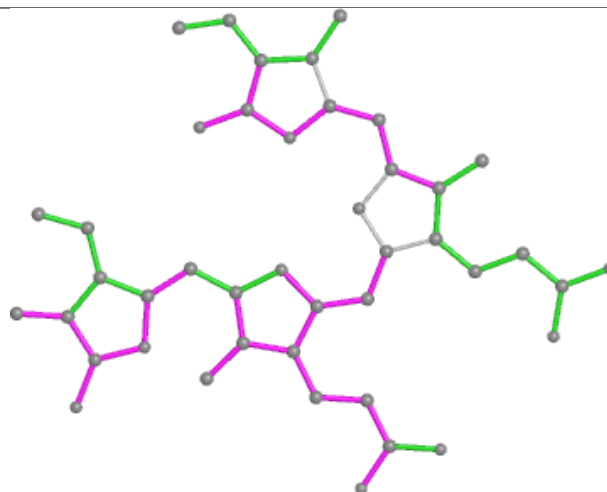


Rings

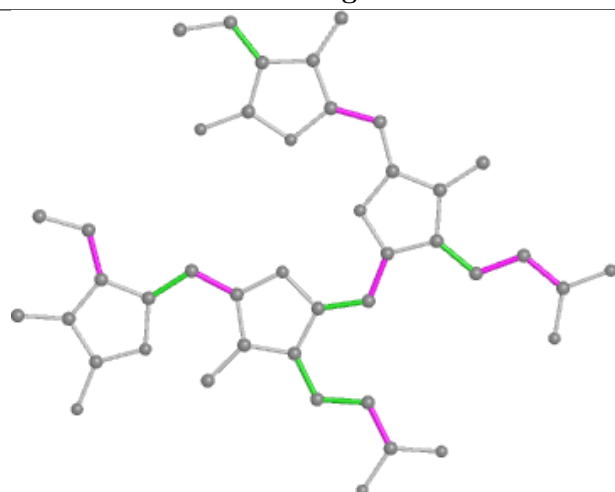
Ligand PEB FM 203



Bond lengths



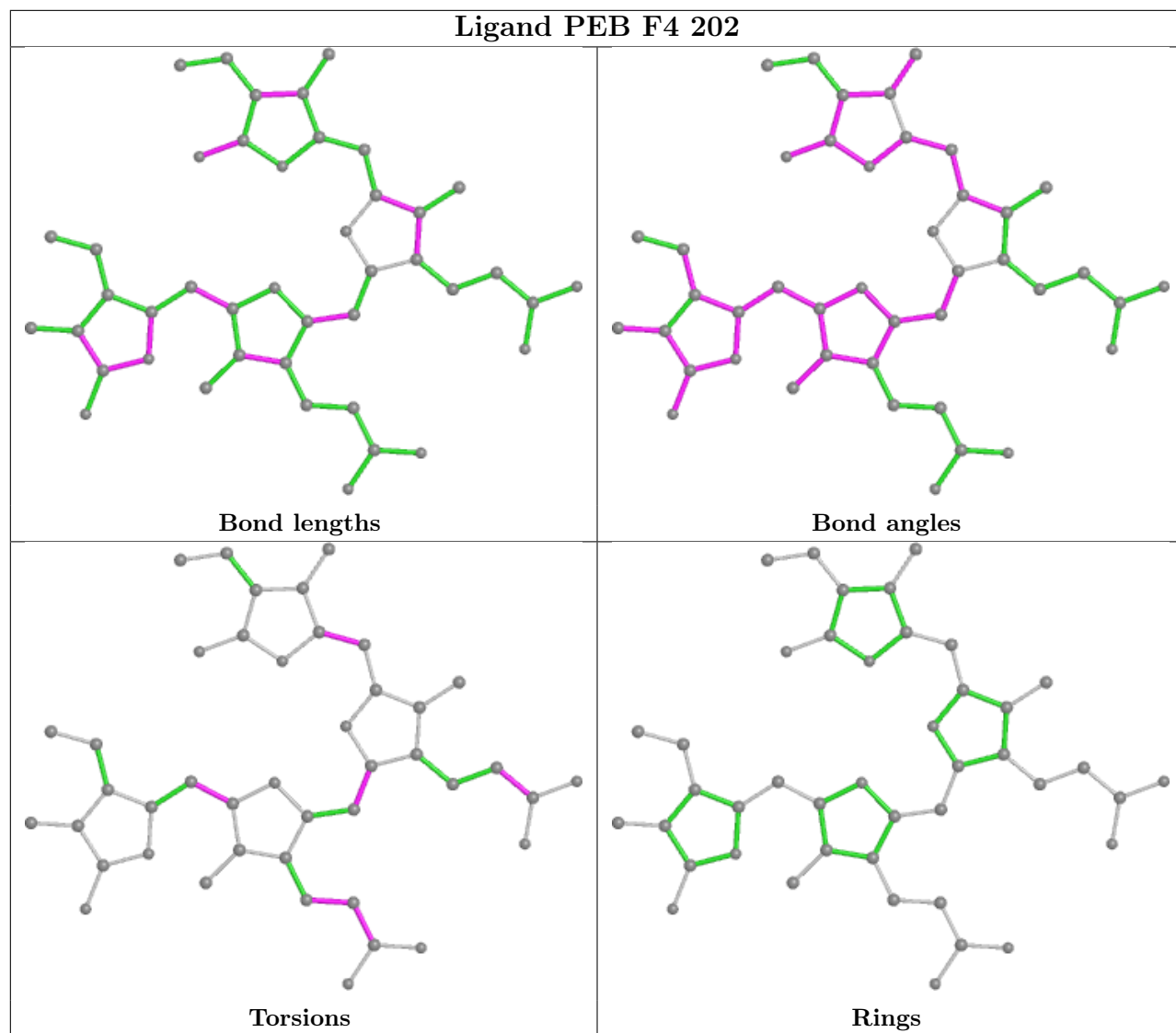
Bond angles



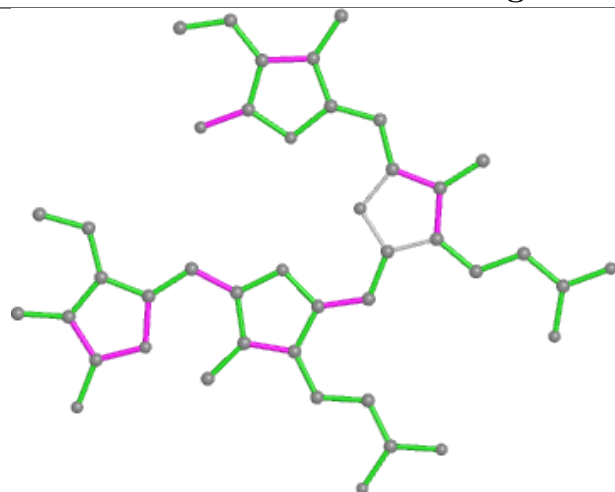
Torsions



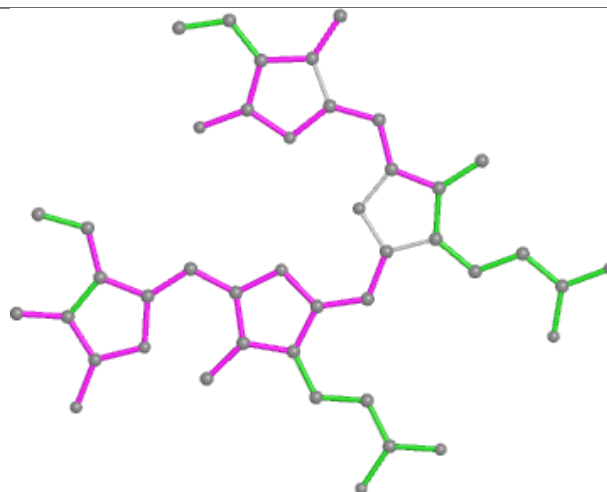
Rings



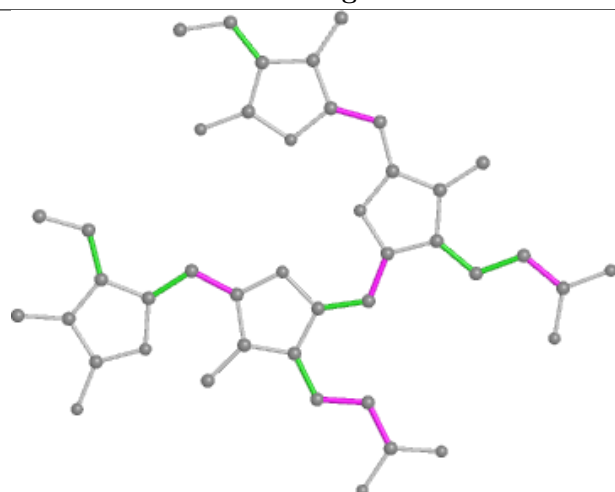
Ligand PEB D4 202



Bond lengths



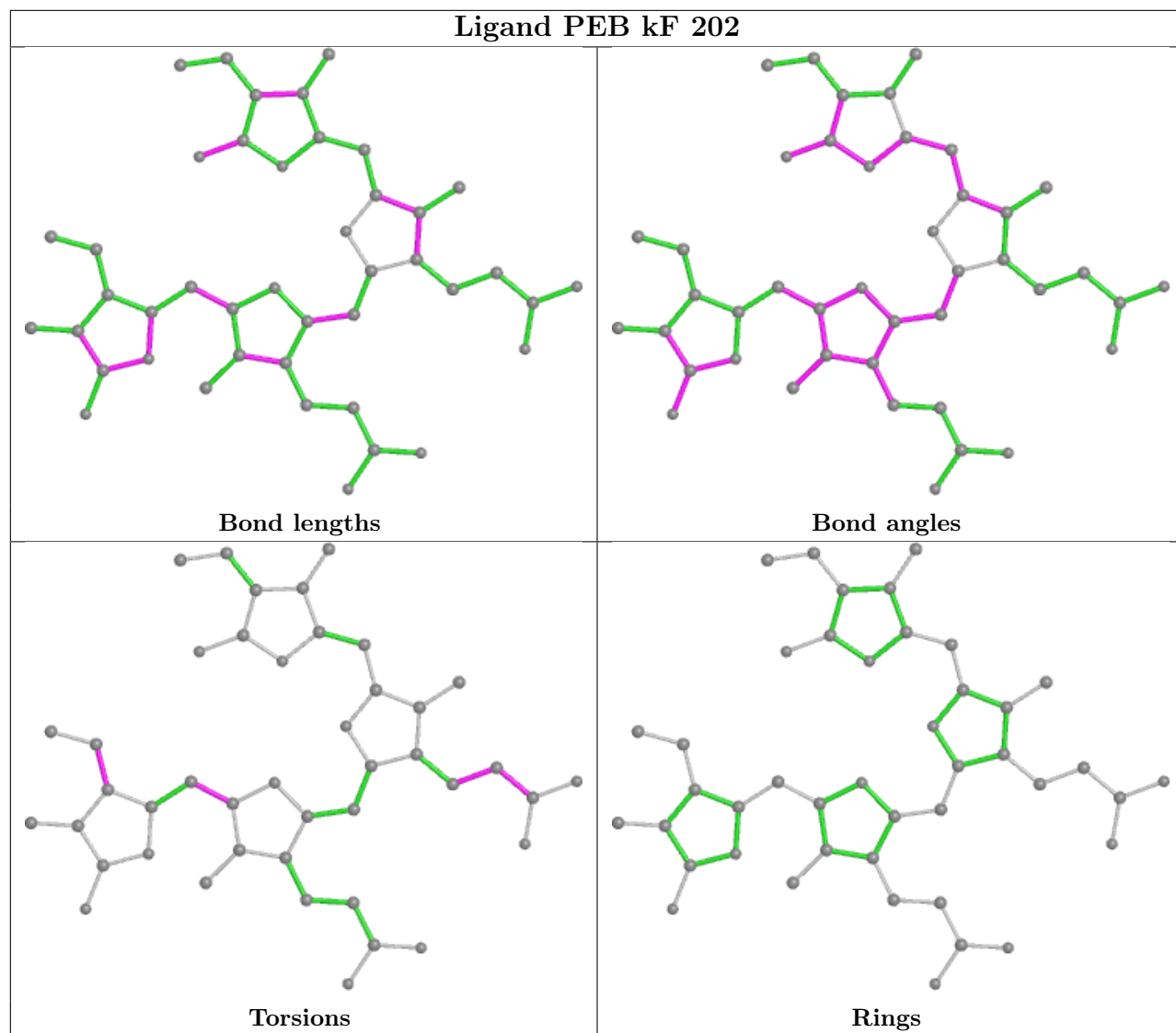
Bond angles



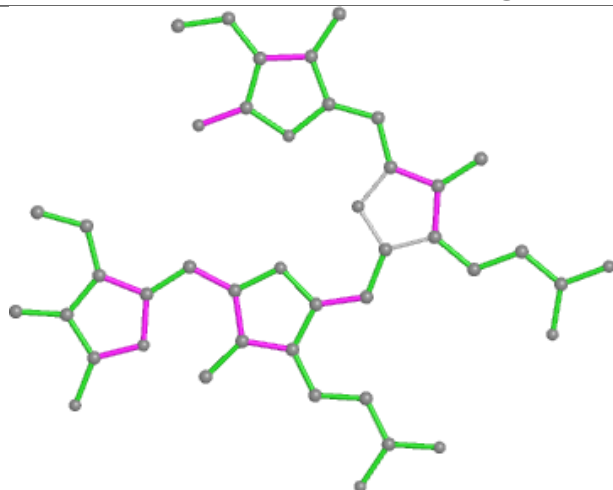
Torsions



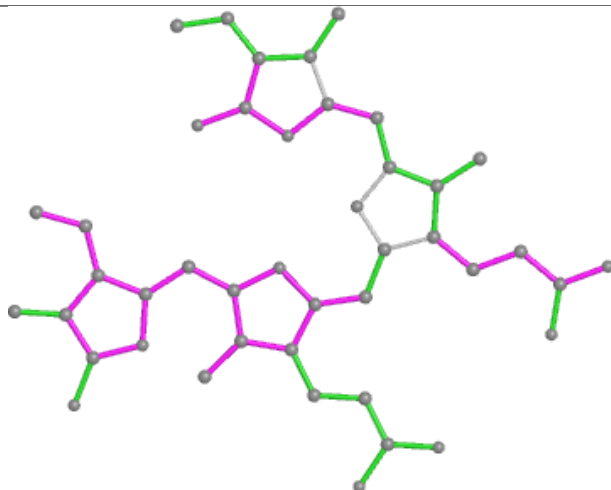
Rings



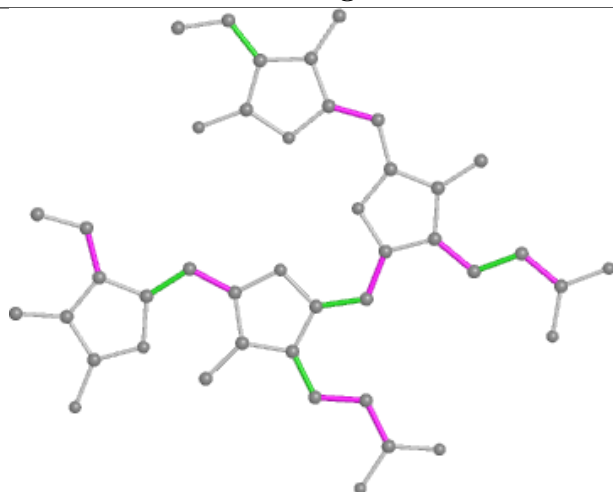
Ligand PEB BM 301



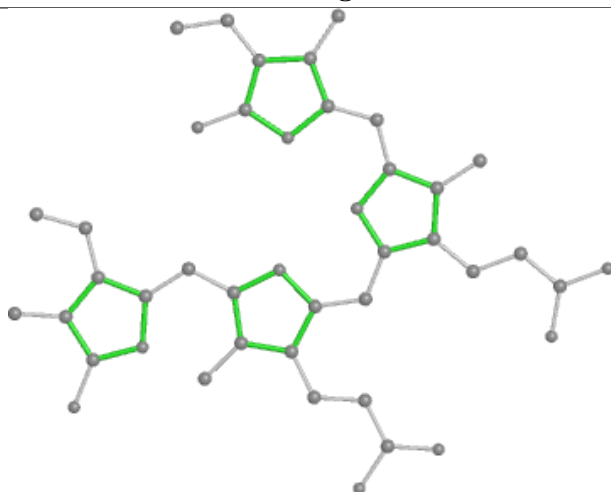
Bond lengths



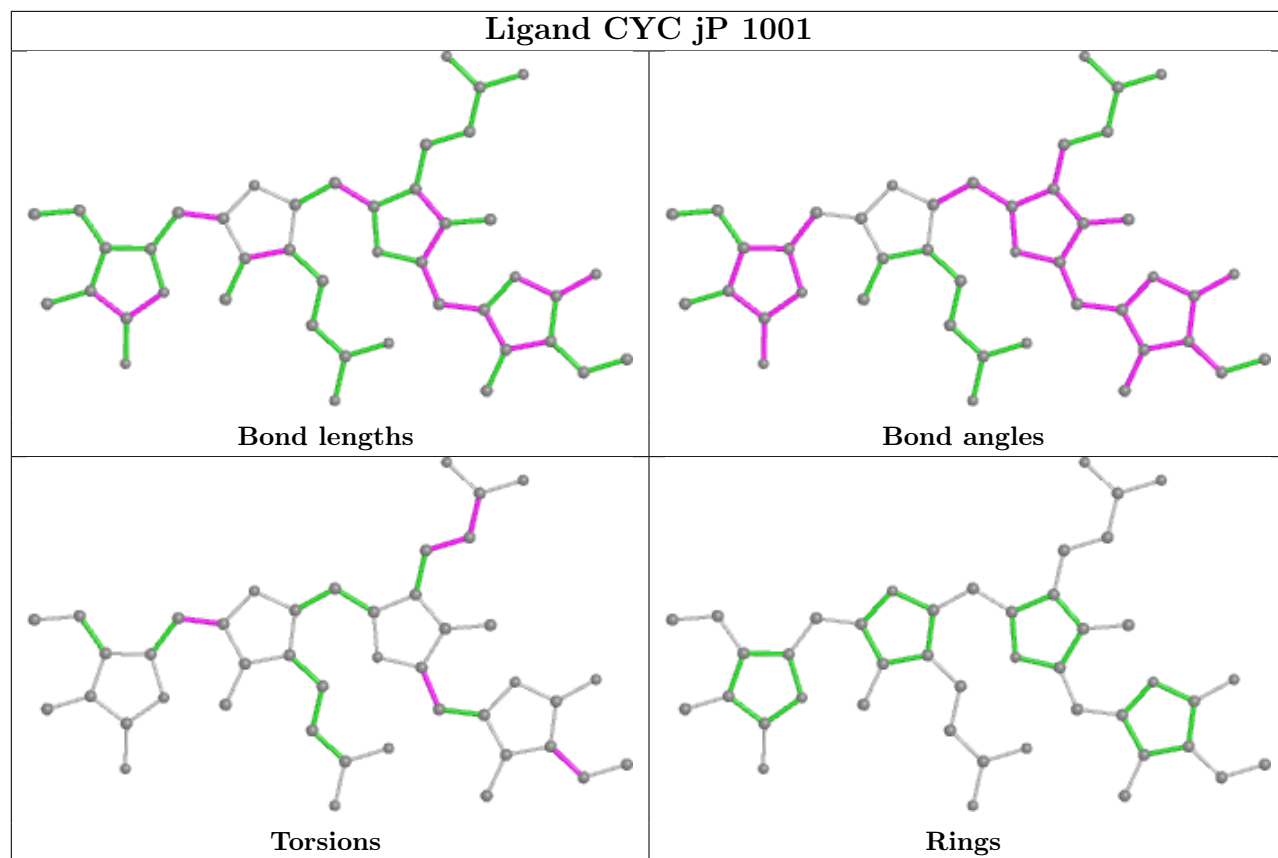
Bond angles



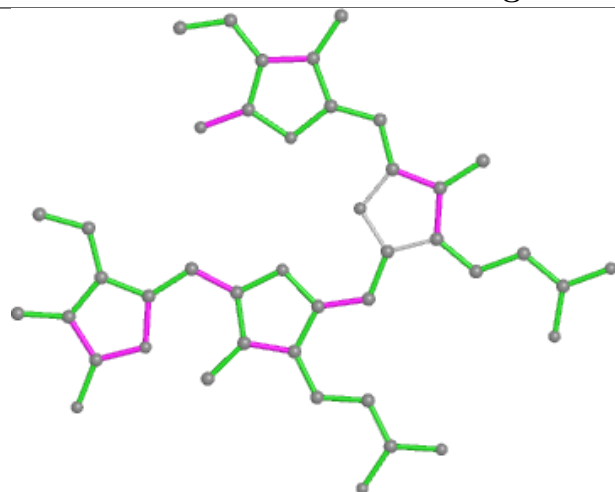
Torsions



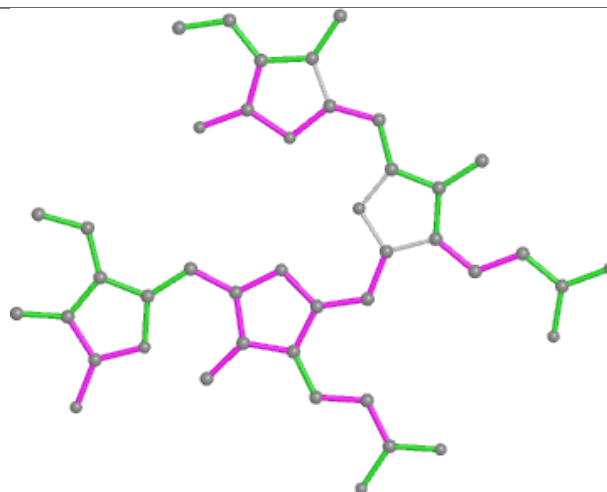
Rings



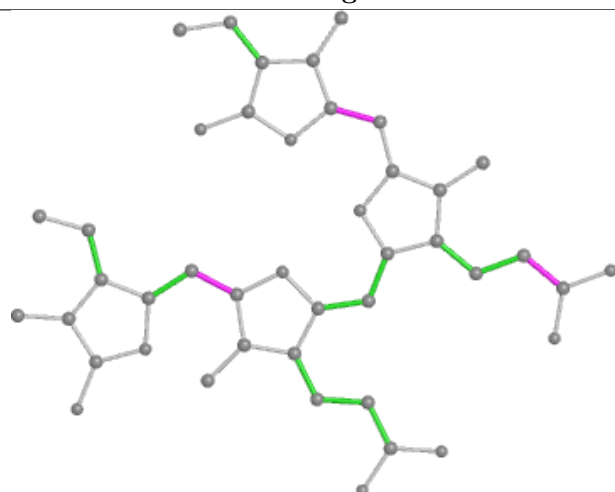
Ligand PEB NB 201



Bond lengths



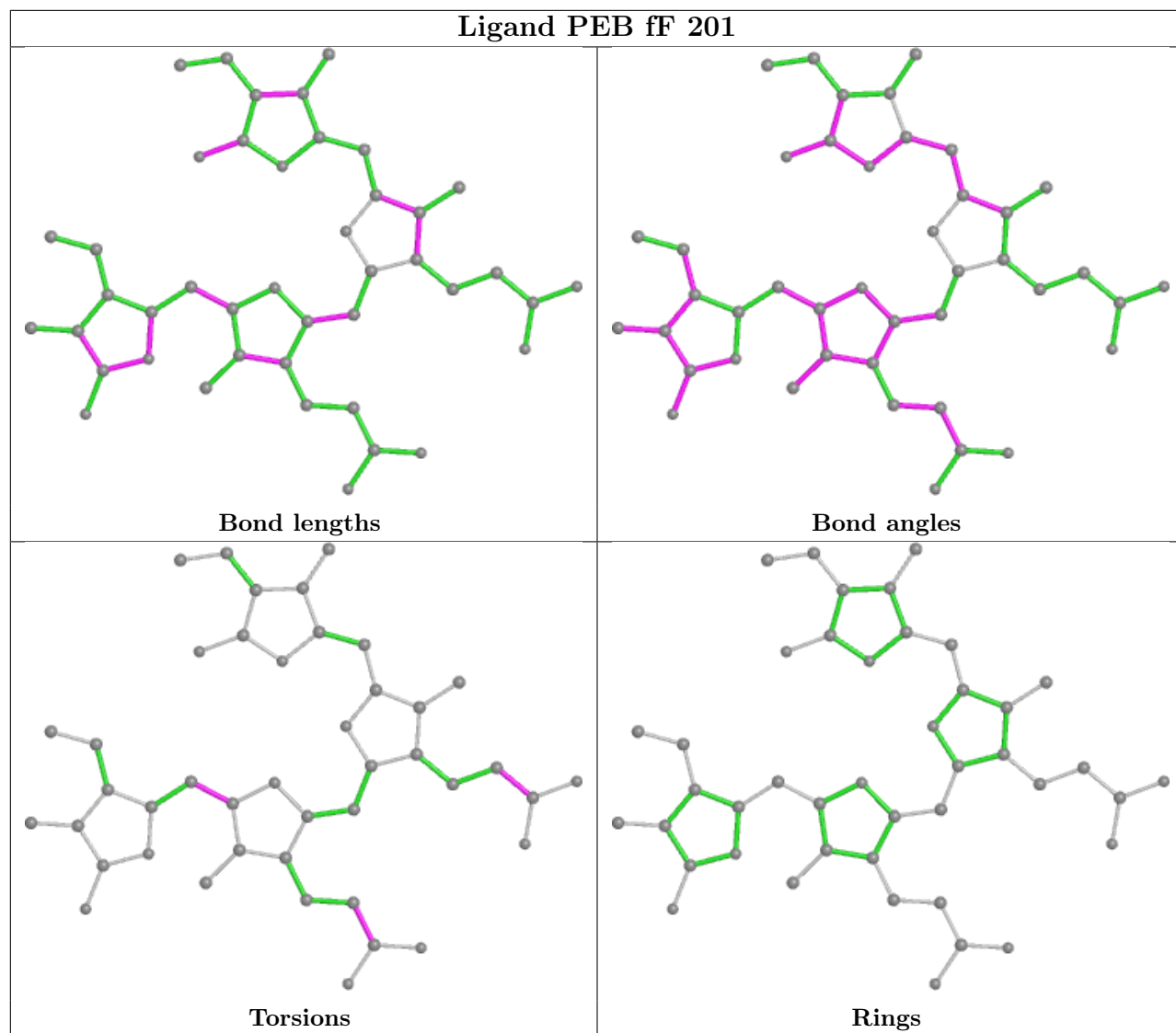
Bond angles



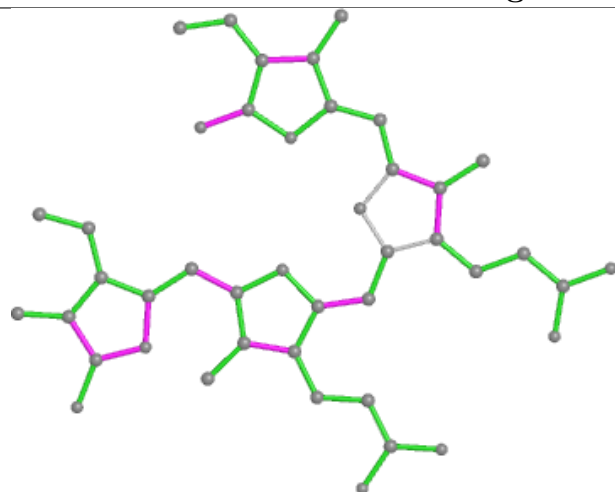
Torsions



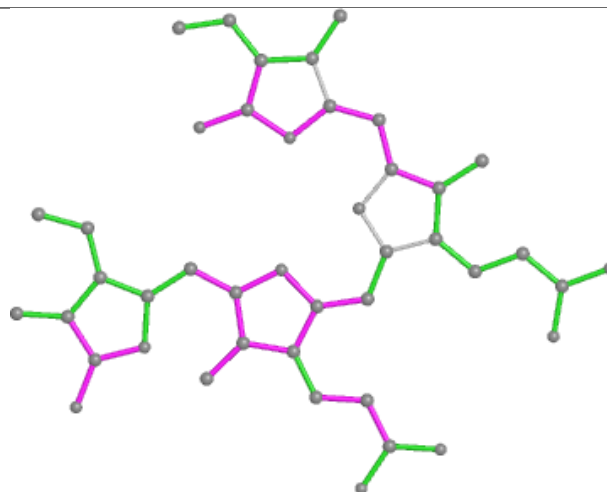
Rings



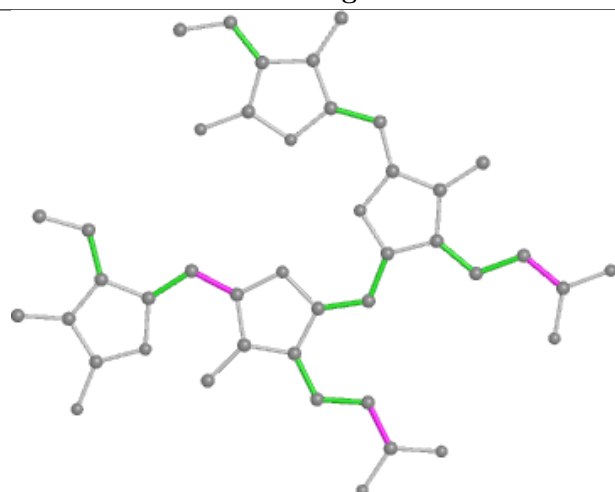
Ligand PEB K8 201



Bond lengths



Bond angles

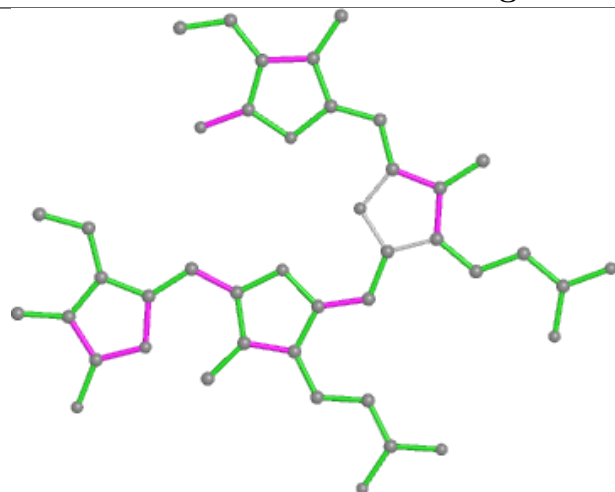


Torsions

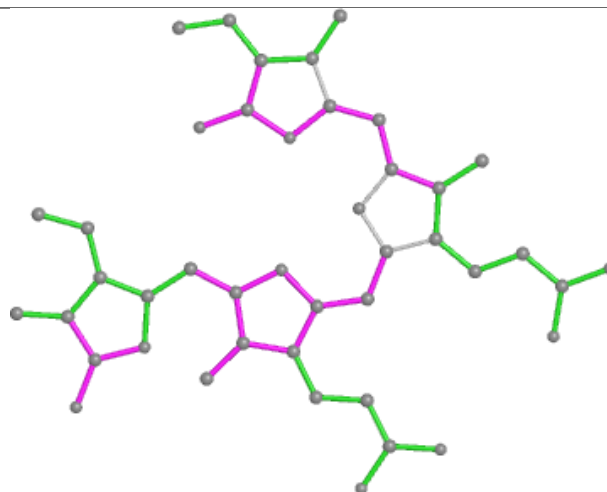


Rings

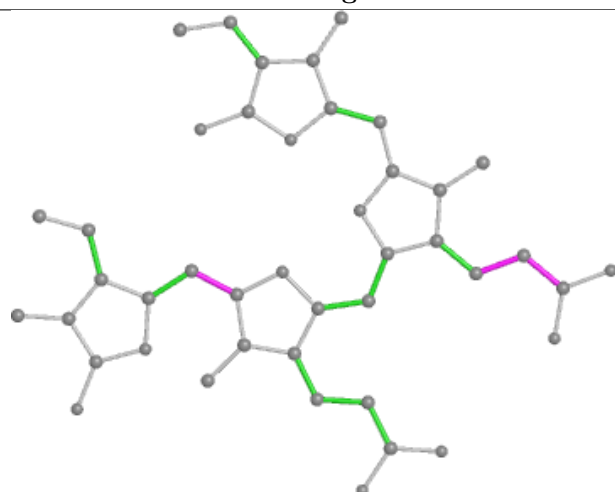
Ligand PEB OM 201



Bond lengths



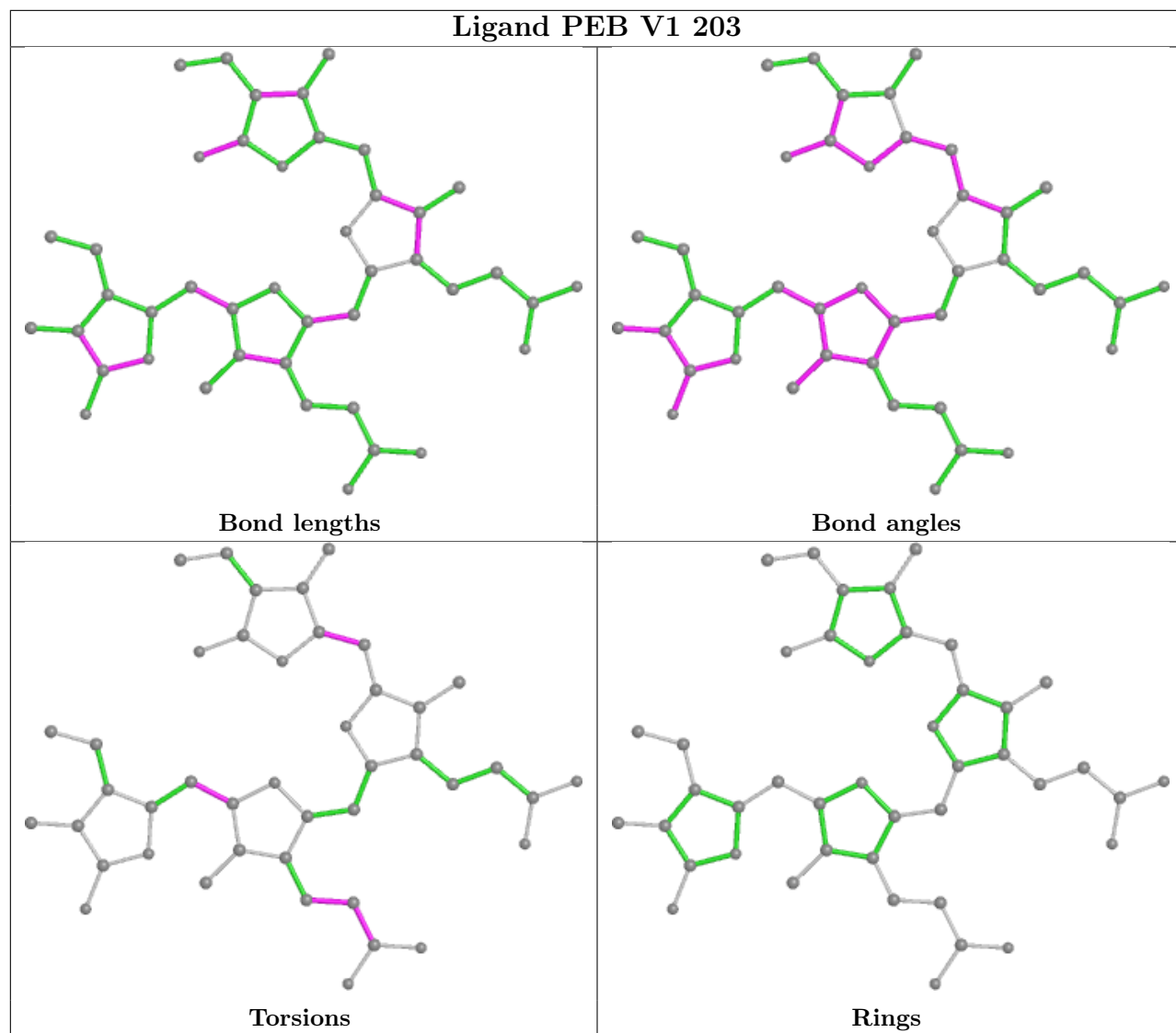
Bond angles



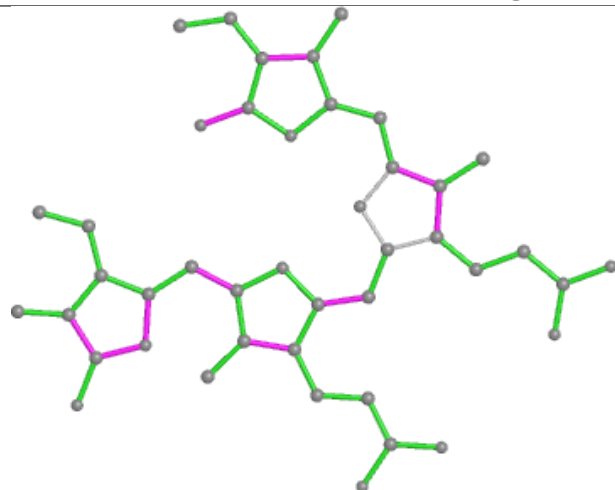
Torsions



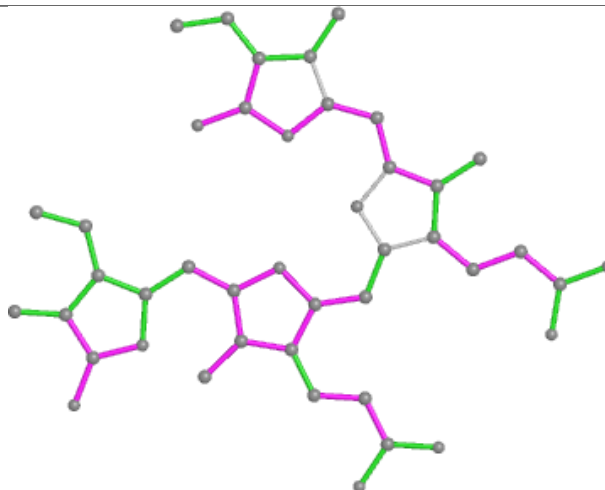
Rings



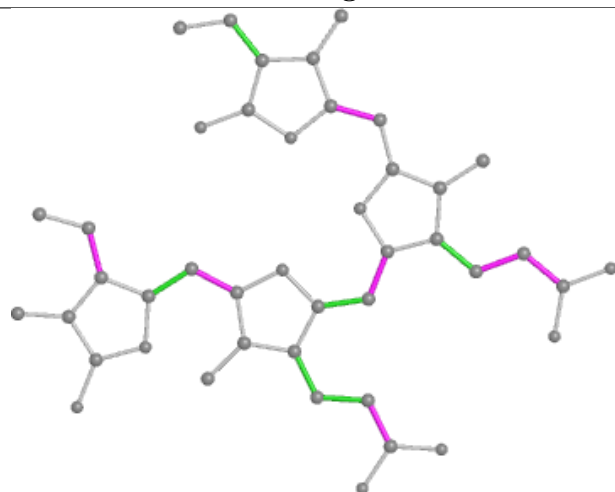
Ligand PEB R2 203



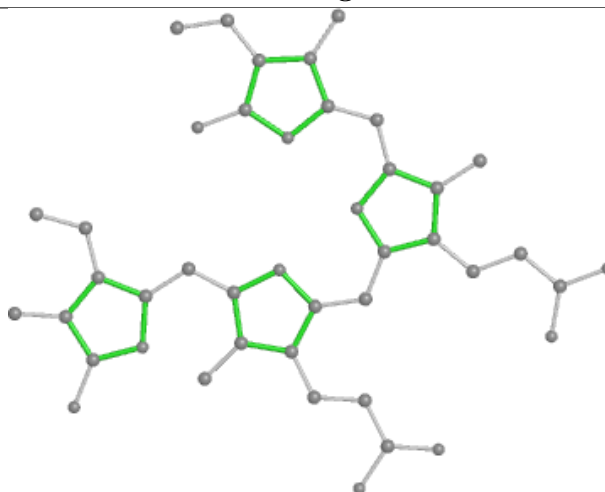
Bond lengths



Bond angles

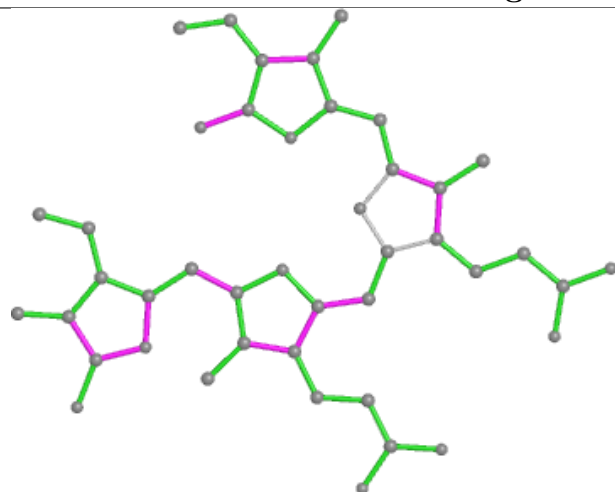


Torsions

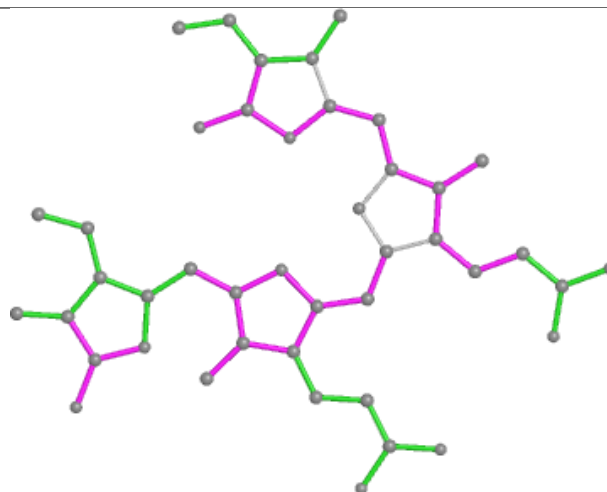


Rings

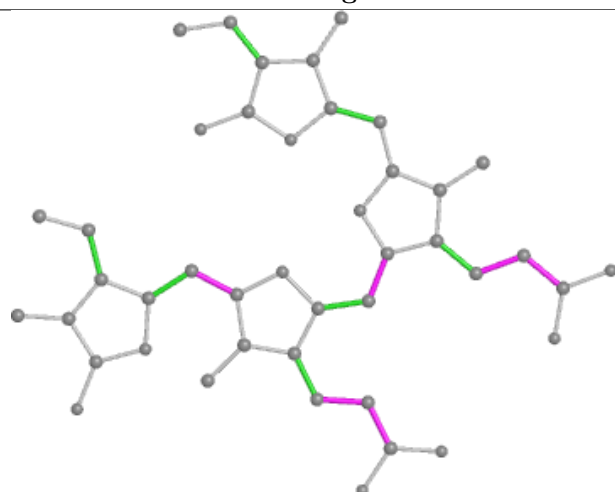
Ligand PEB EB 202



Bond lengths



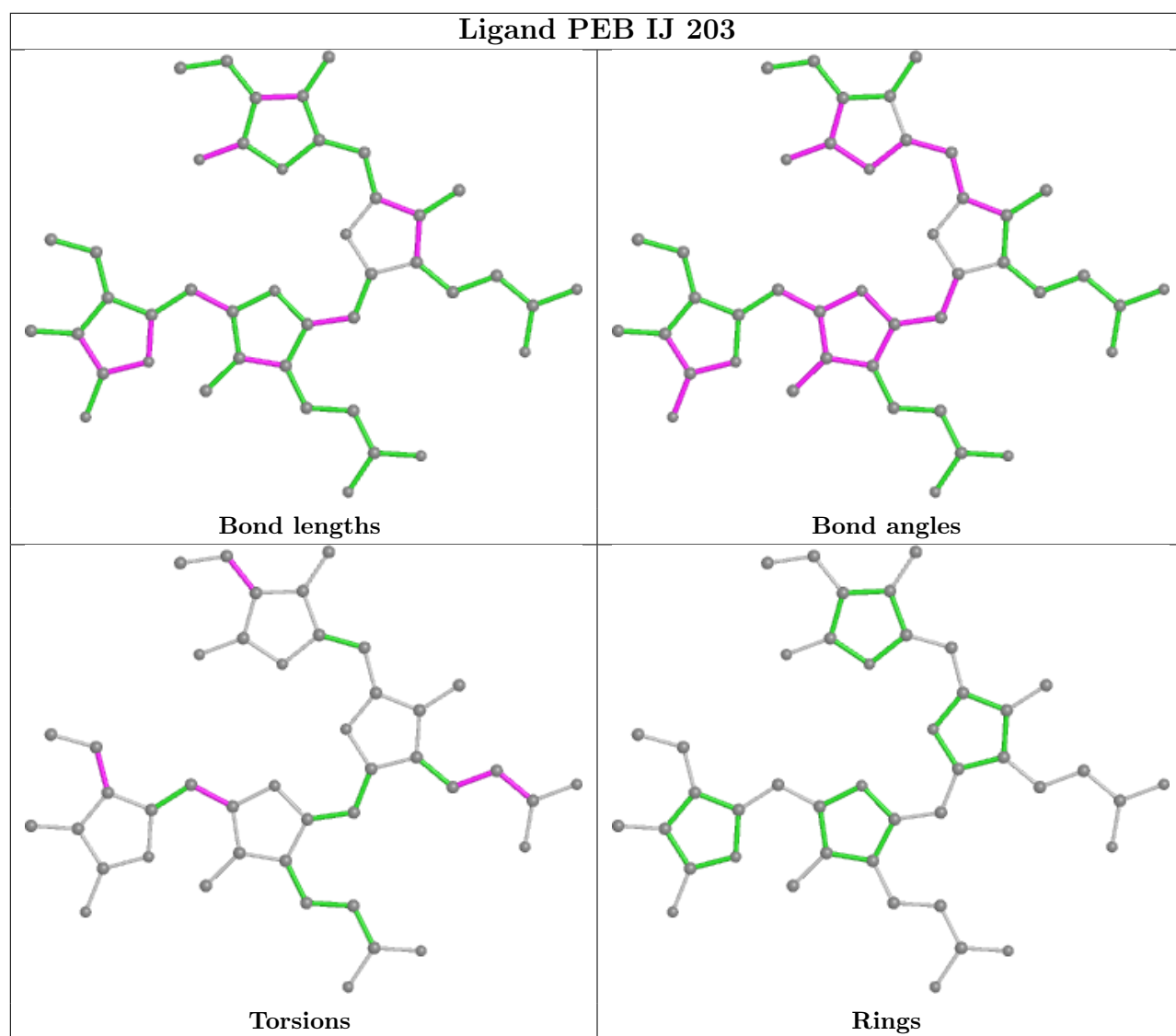
Bond angles

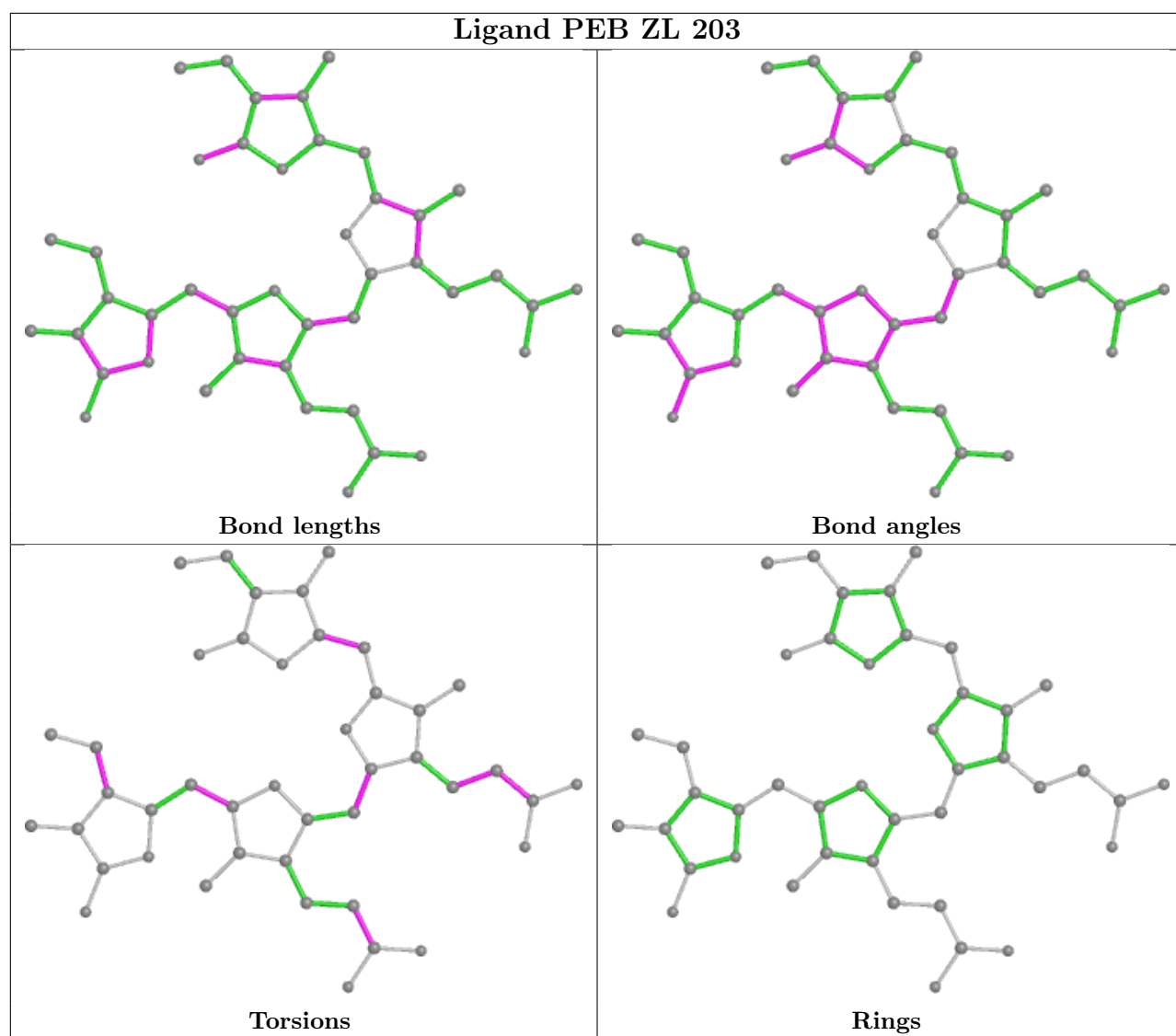


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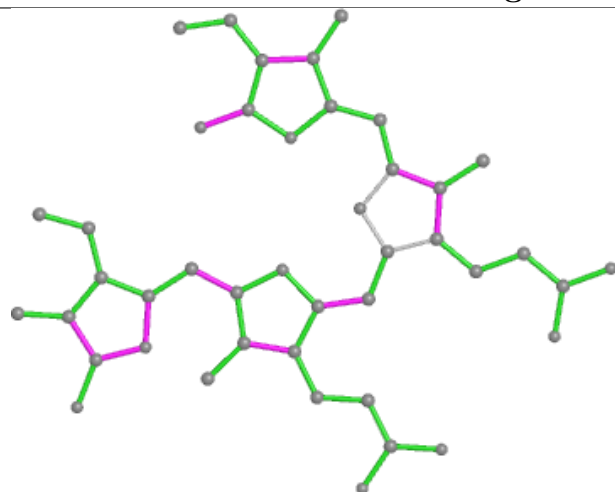


Rings

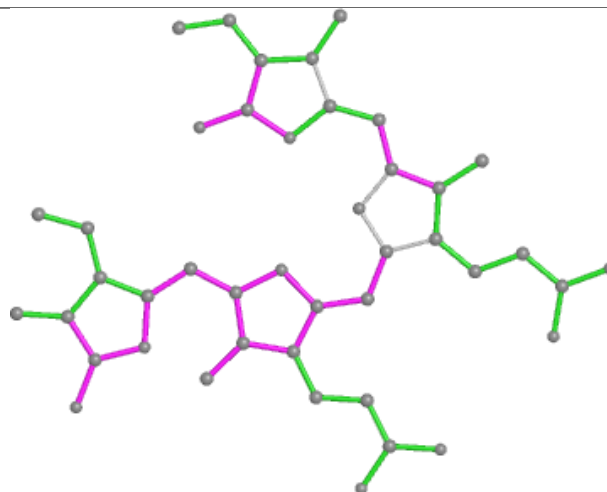




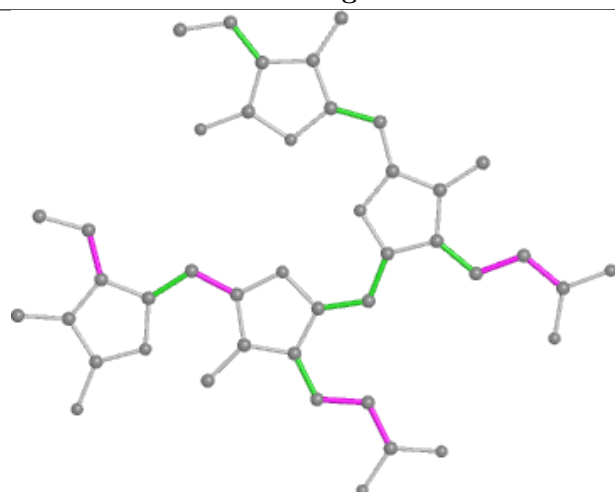
Ligand PEB ZK 203



Bond lengths



Bond angles

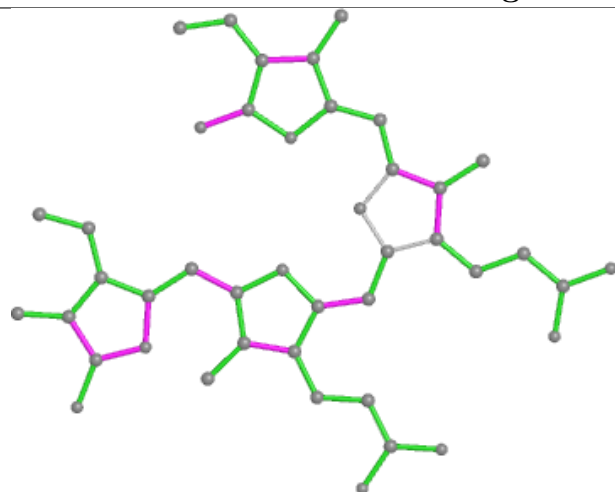


Torsions

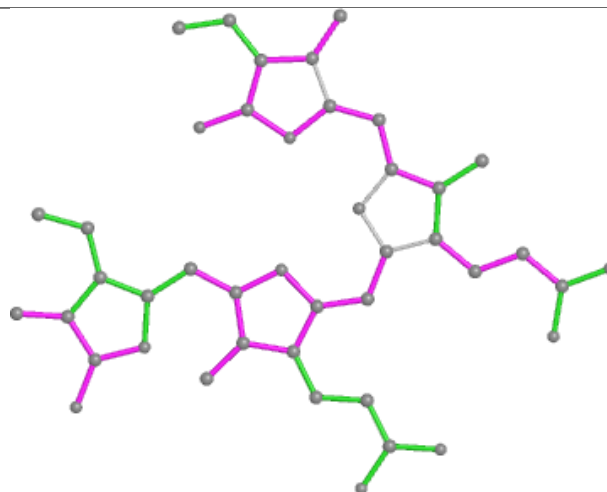


Rings

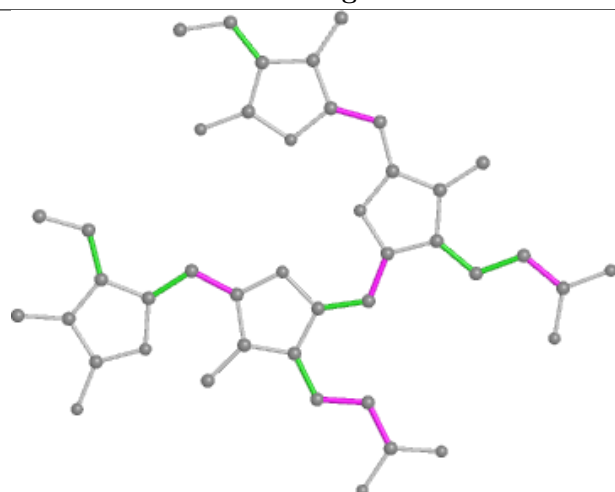
Ligand PEB KD 203



Bond lengths



Bond angles

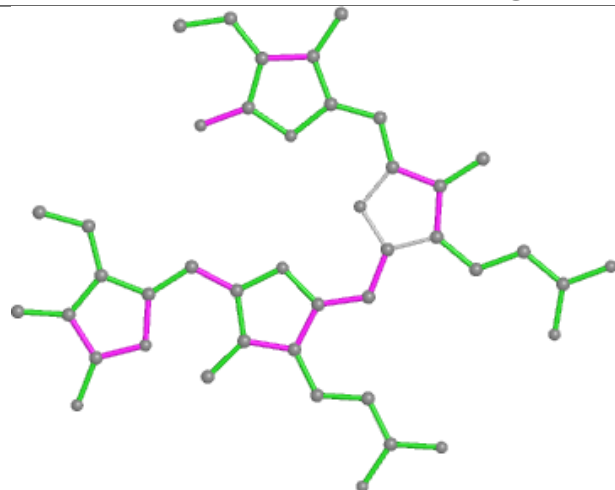


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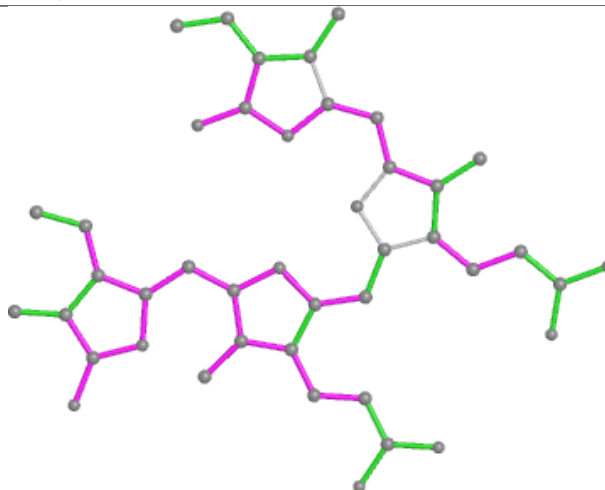


Rings

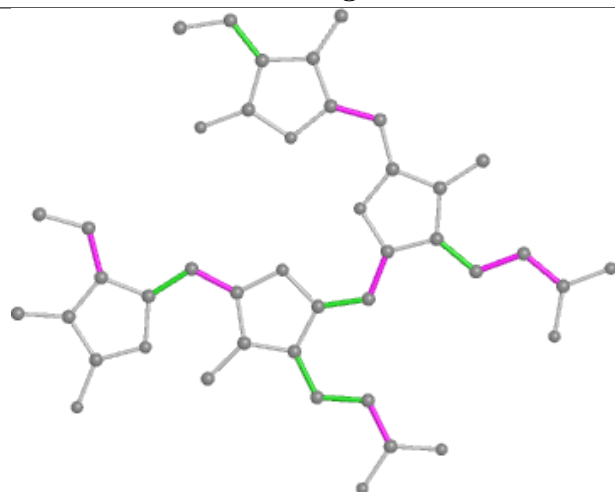
Ligand PEB Q2 202



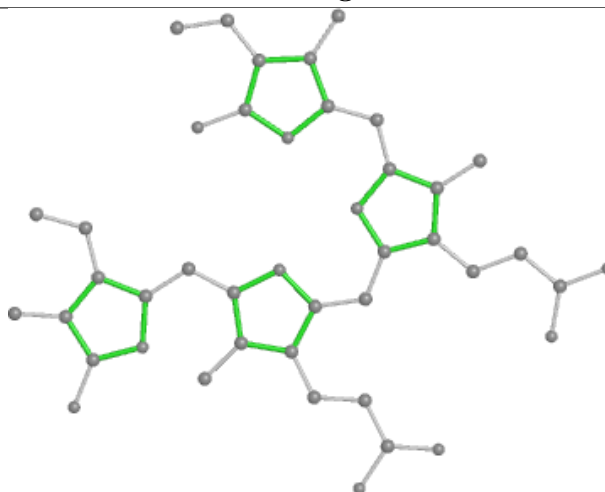
Bond lengths



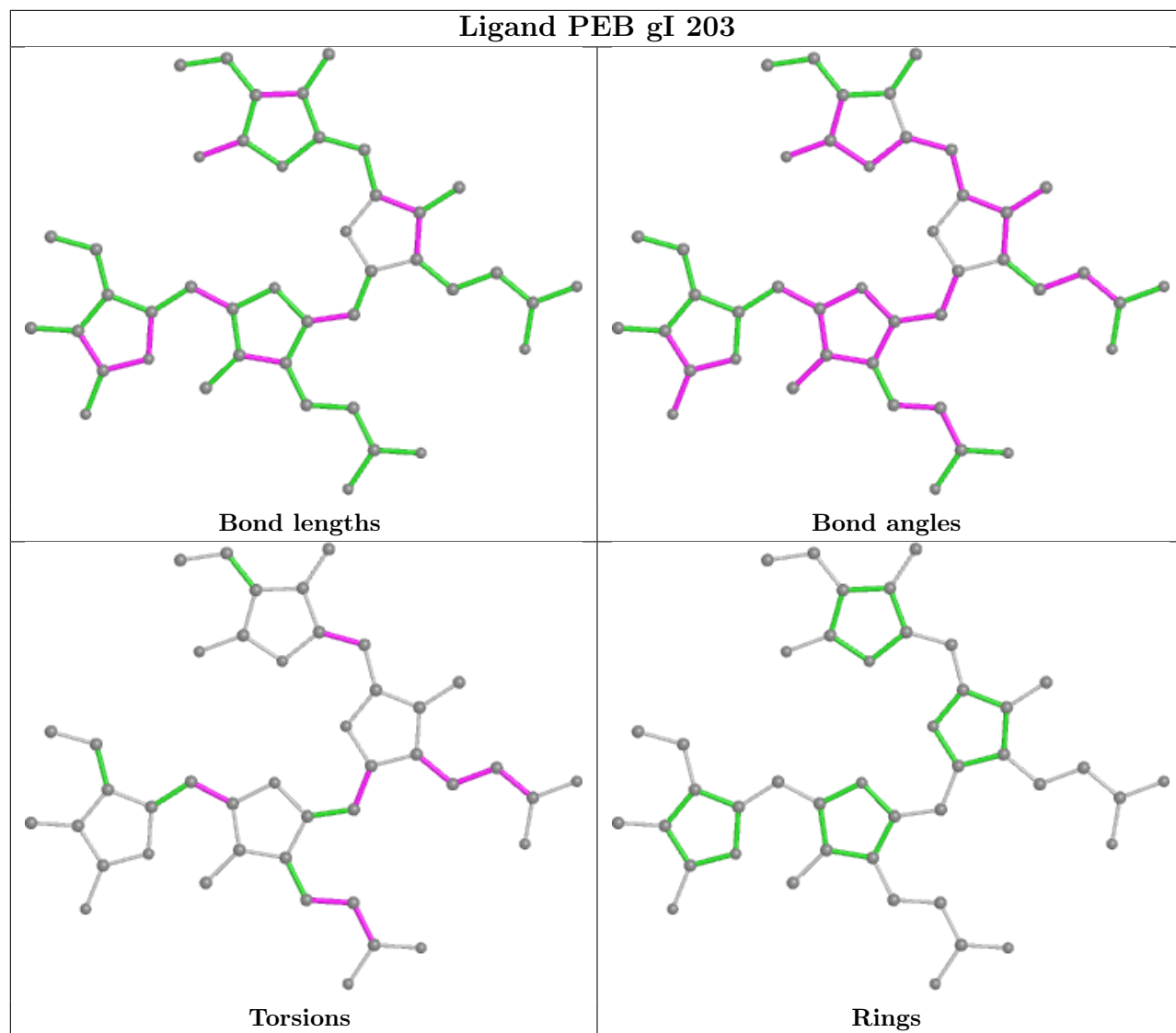
Bond angles



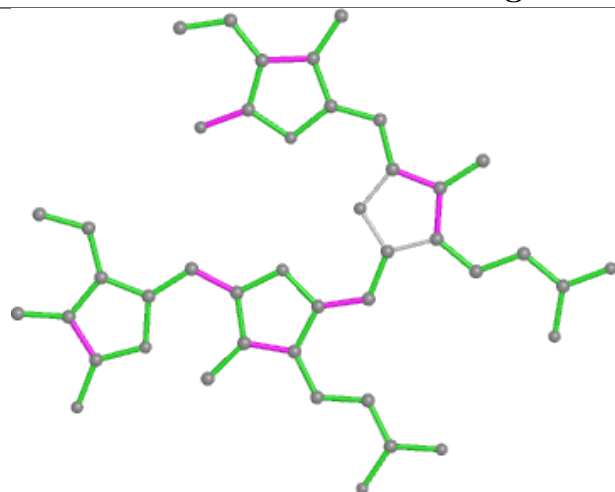
Torsions



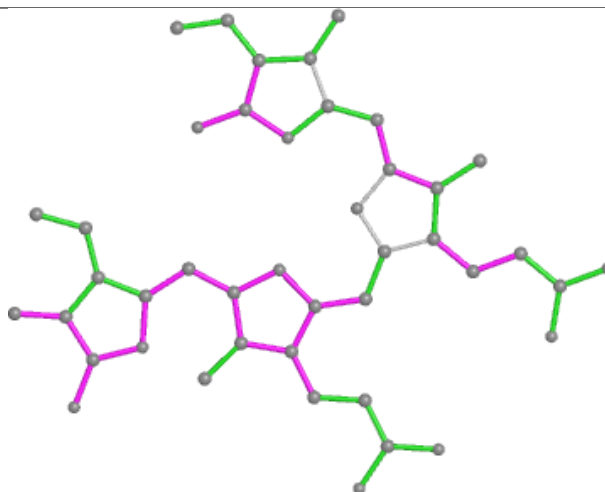
Rings



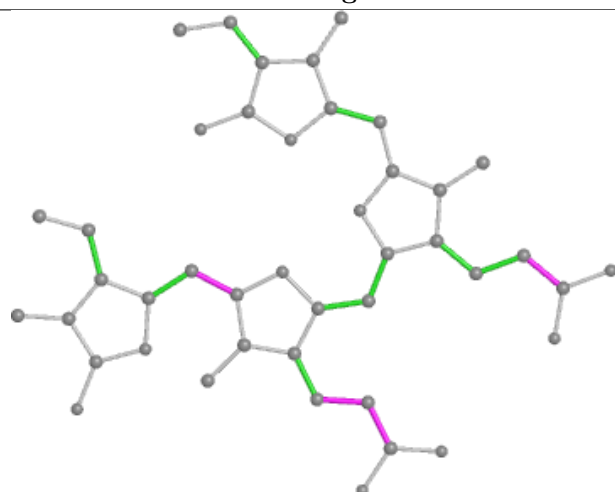
Ligand PEB NL 201



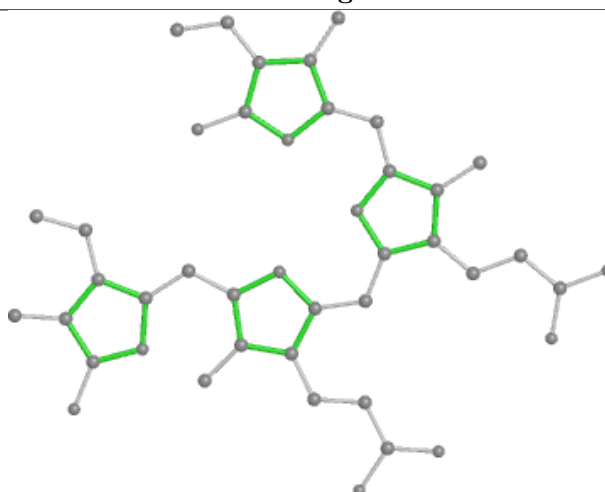
Bond lengths



Bond angles

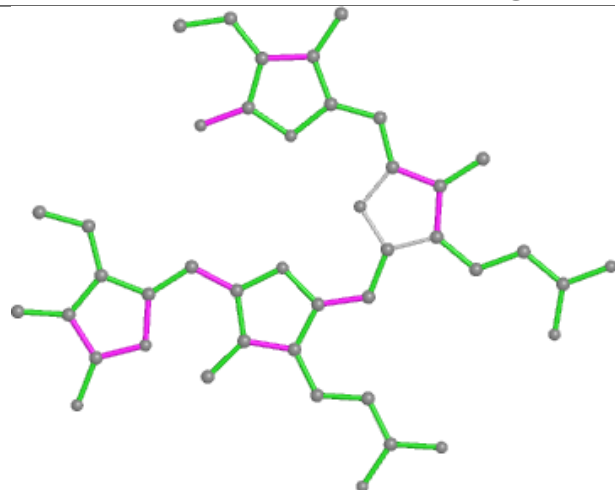


Torsions

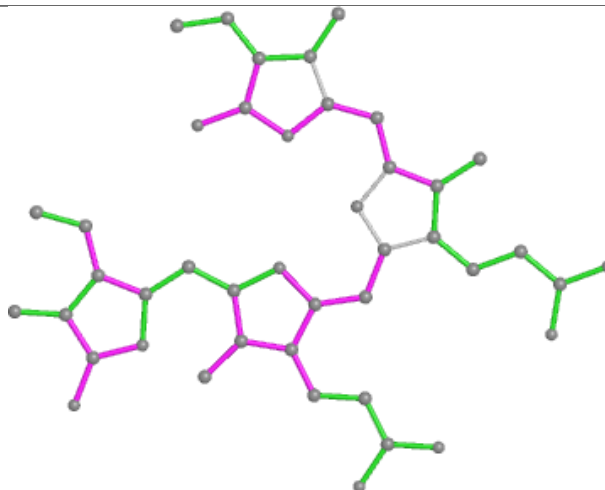


Rings

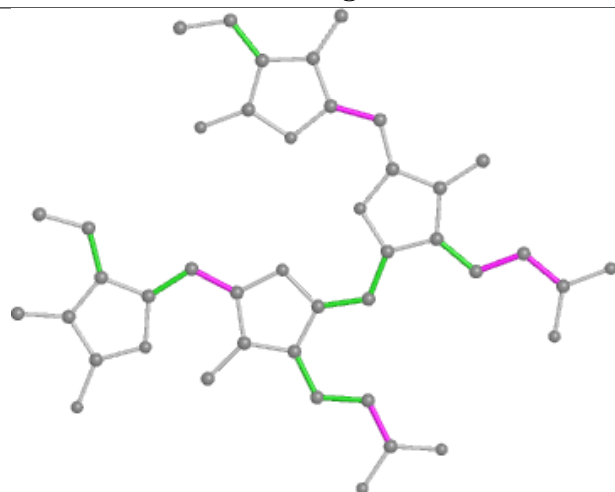
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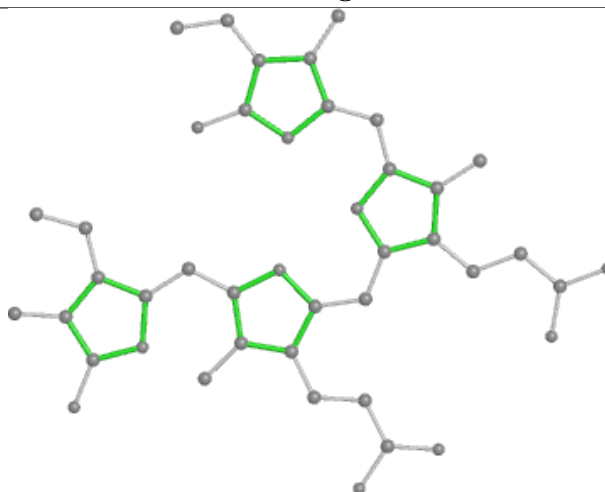
Bond lengths



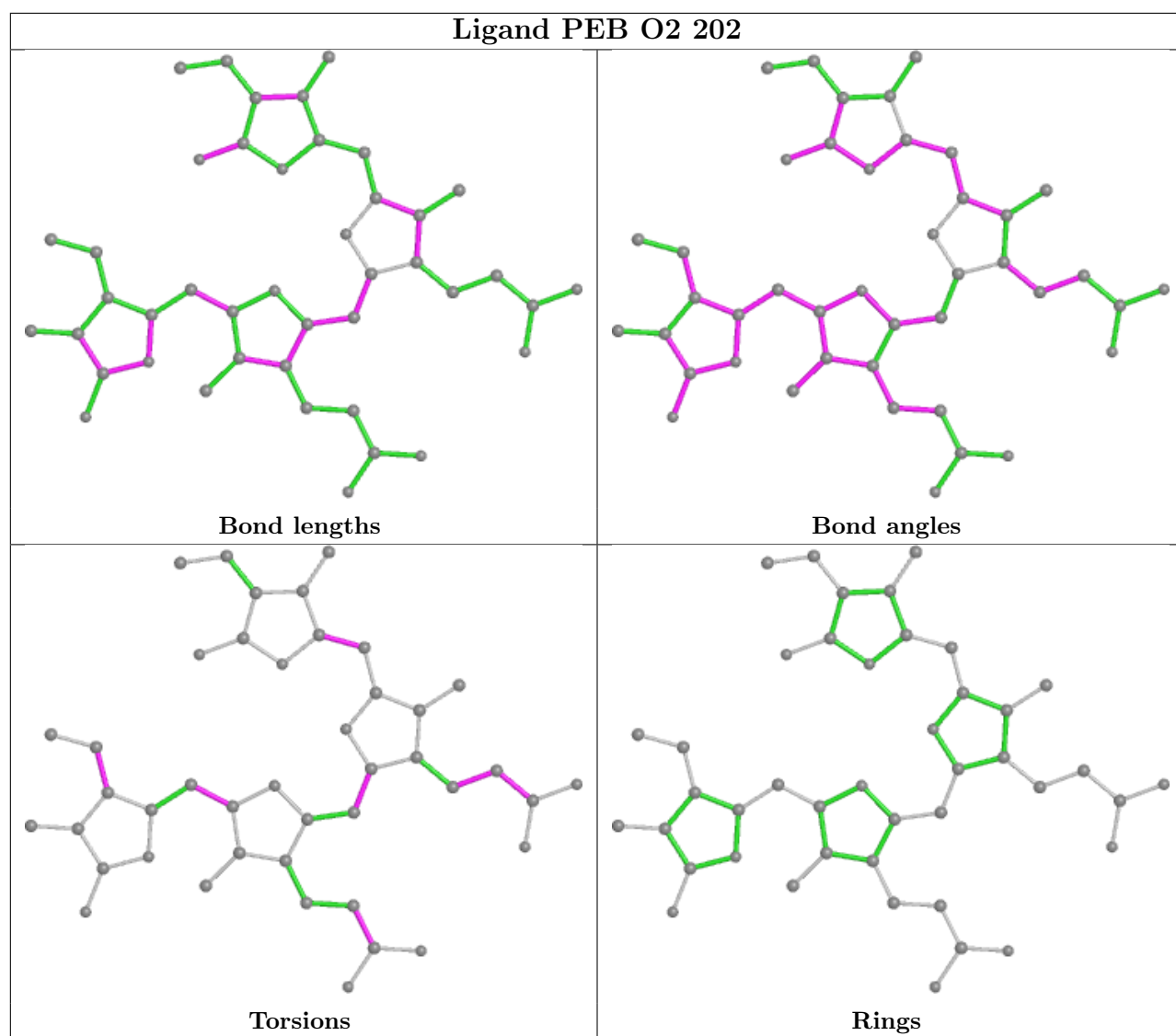
Bond angles



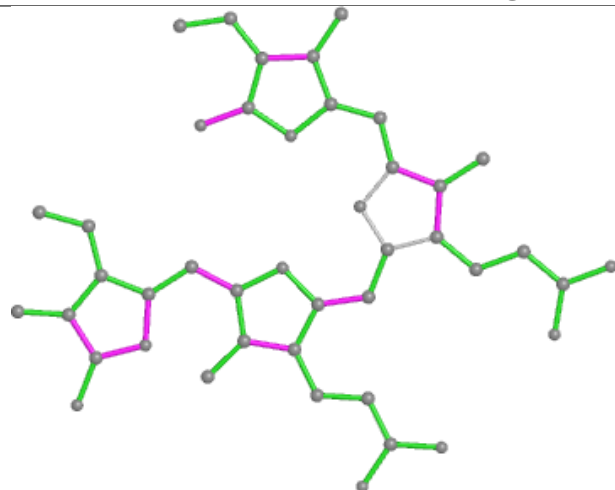
Torsions



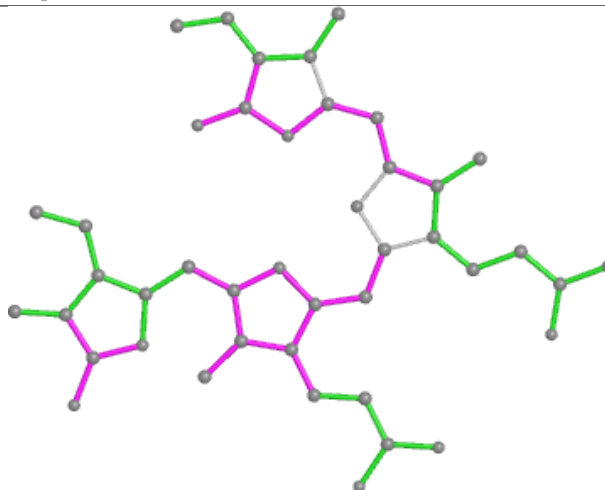
Rings



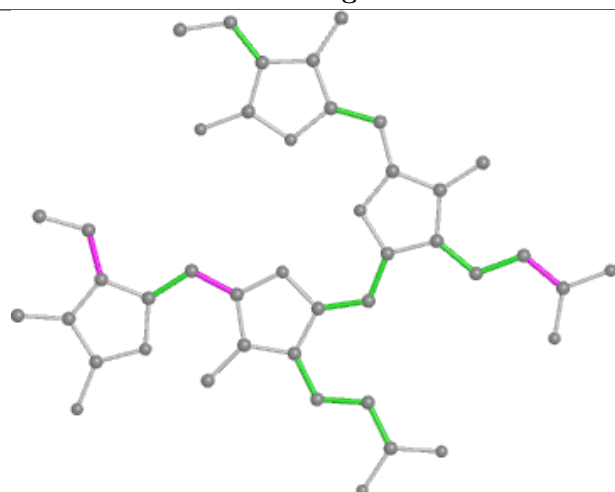
Ligand PEB gM 202



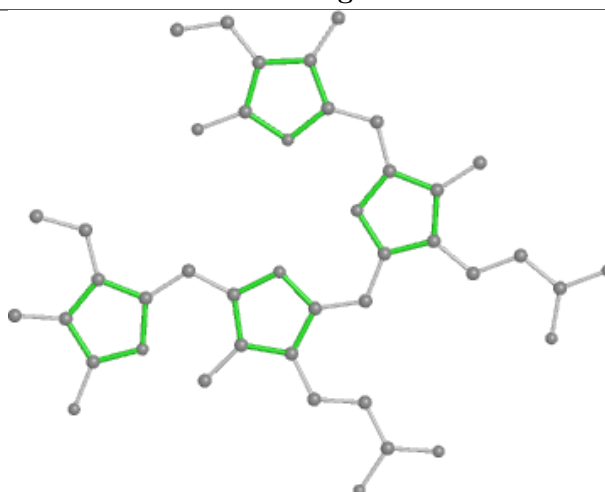
Bond lengths



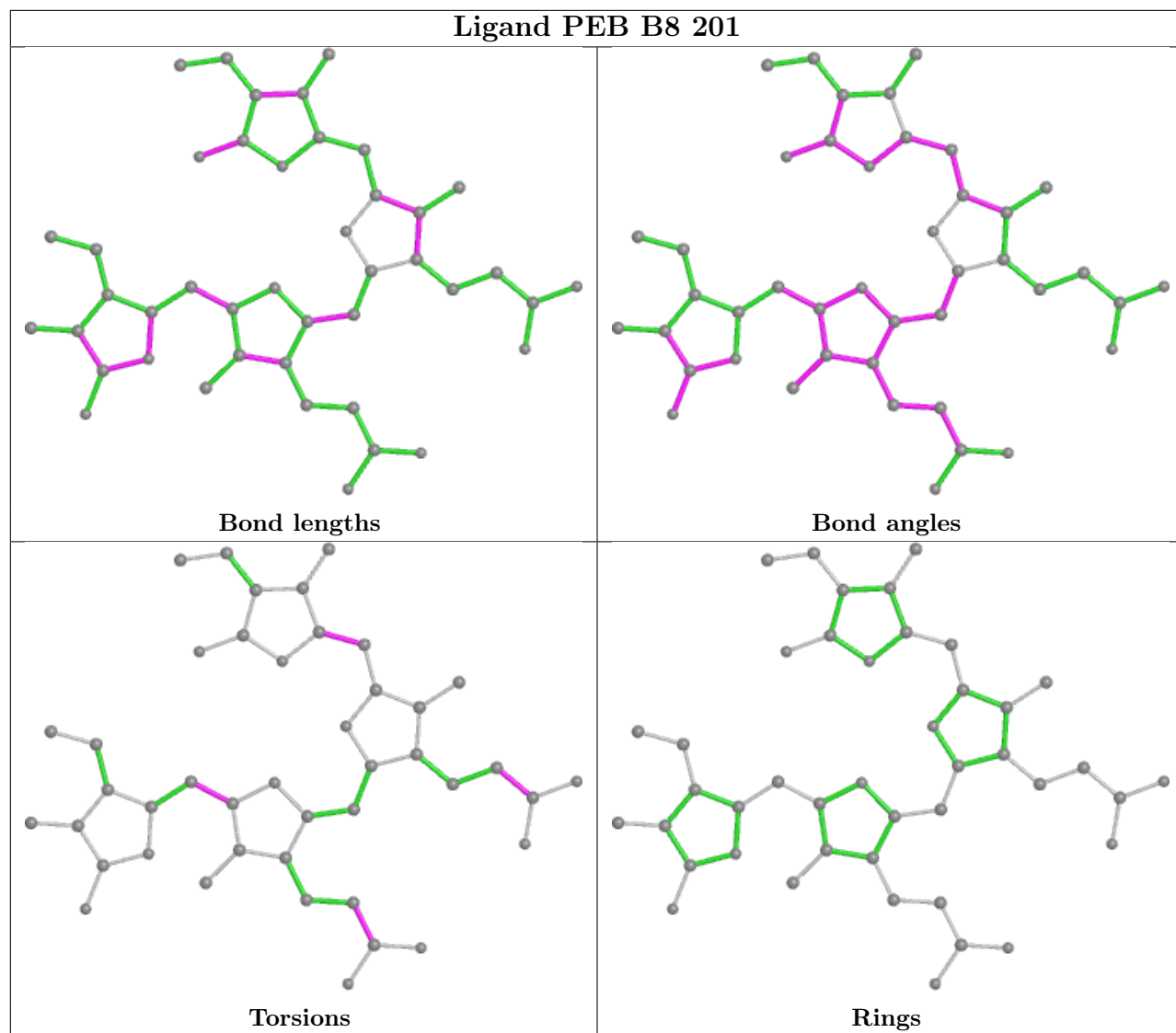
Bond angles

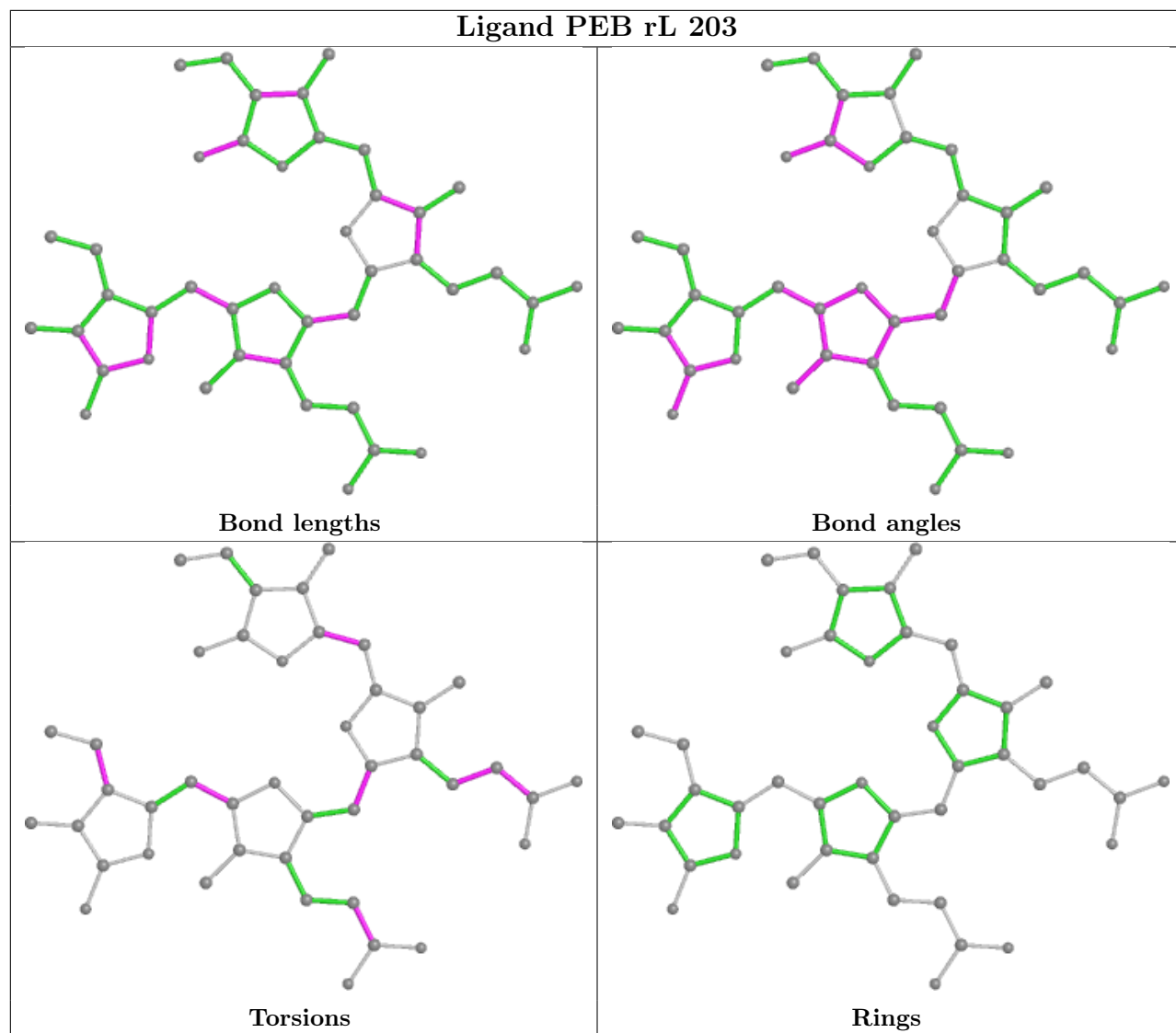


Torsions

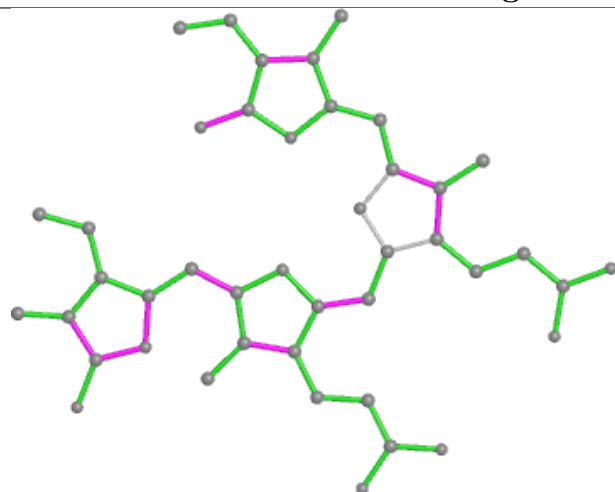


Rings

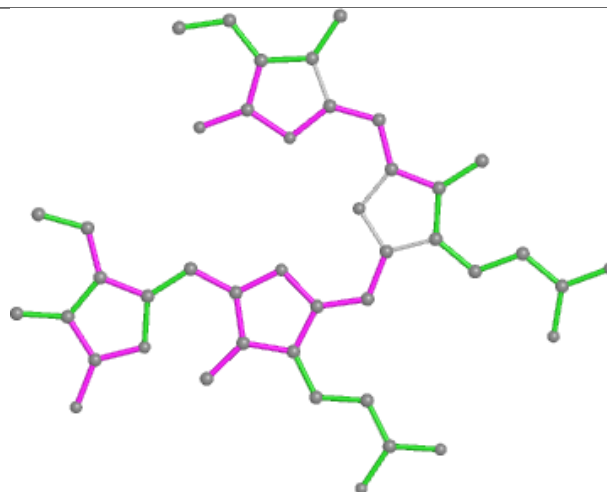




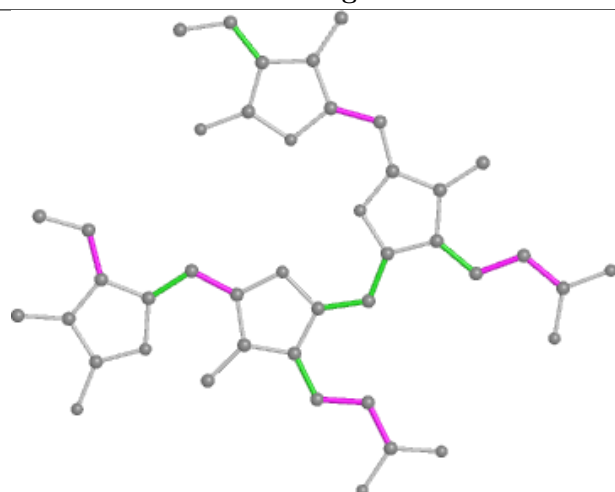
Ligand PEB AK 301



Bond lengths



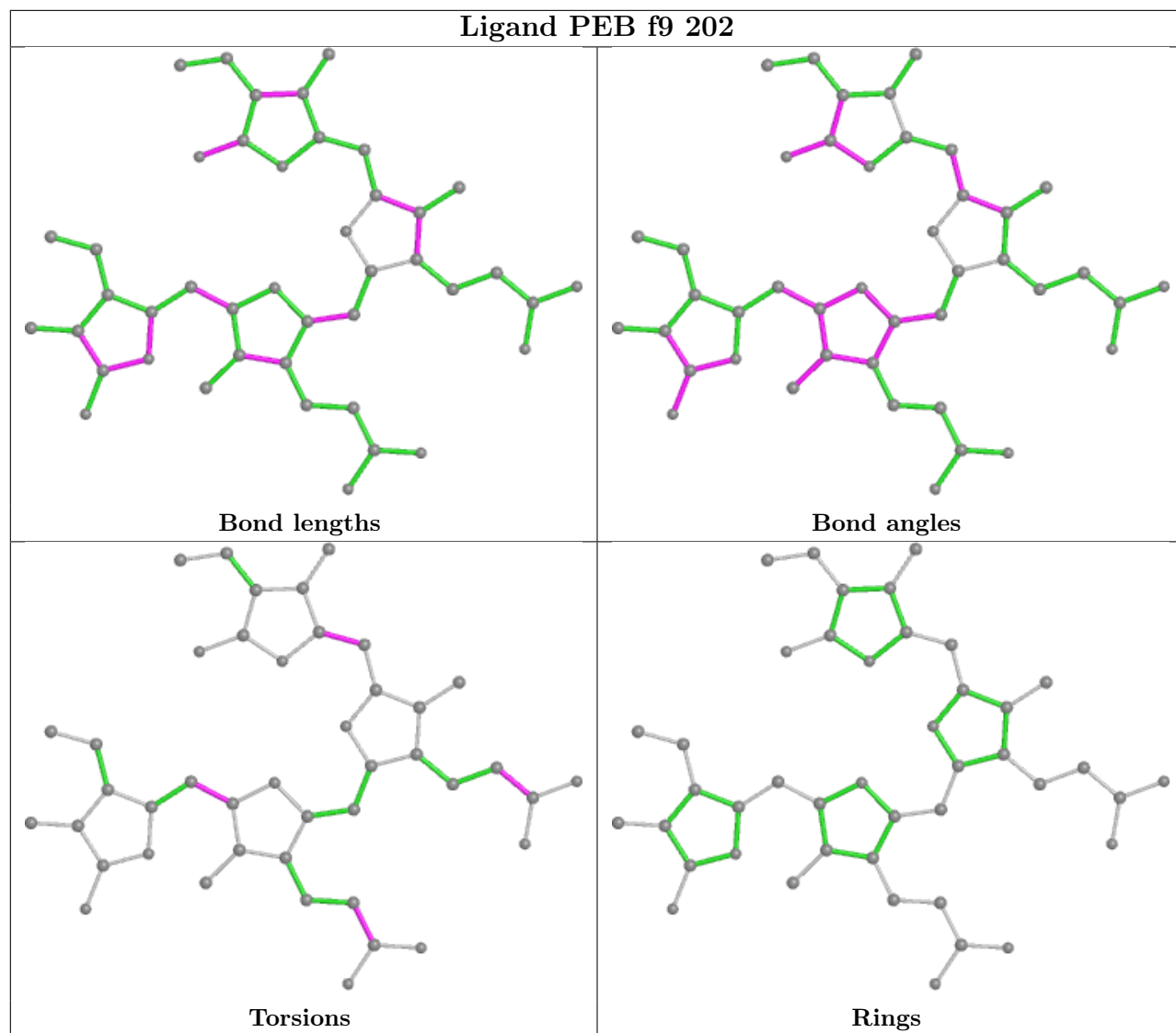
Bond angles



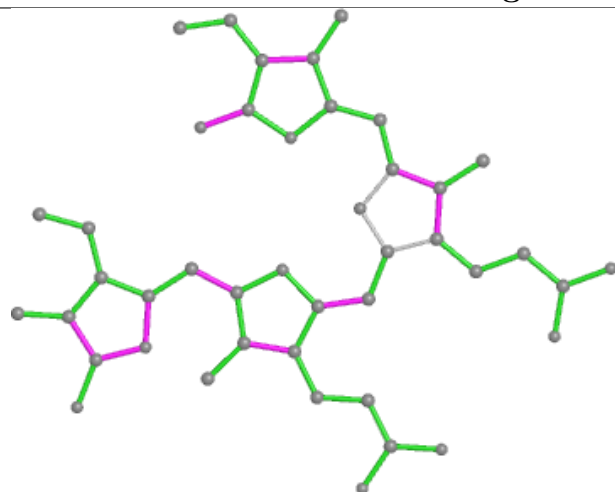
Torsions



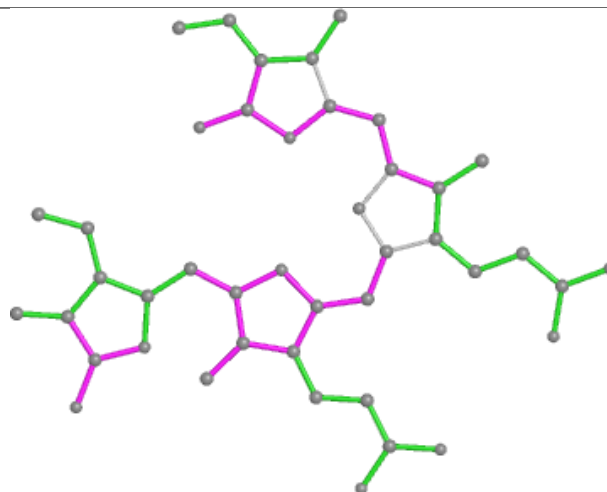
Rings



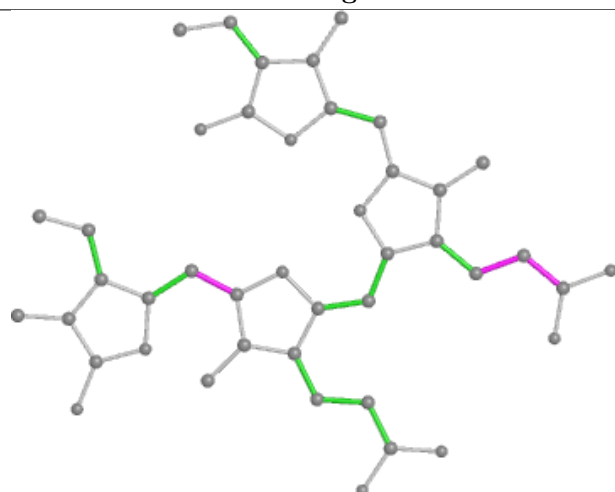
Ligand PEB hM 201



Bond lengths



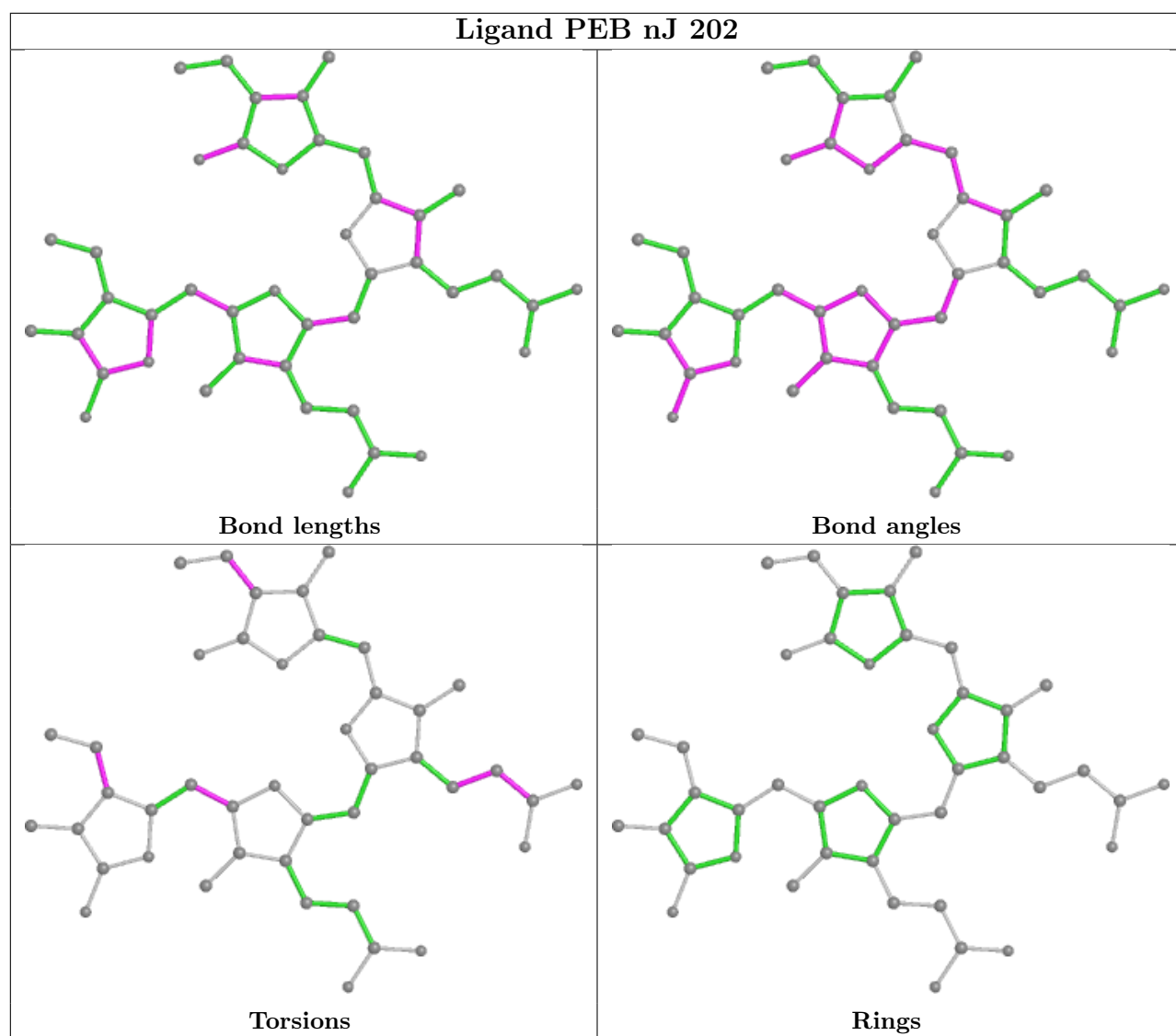
Bond angles

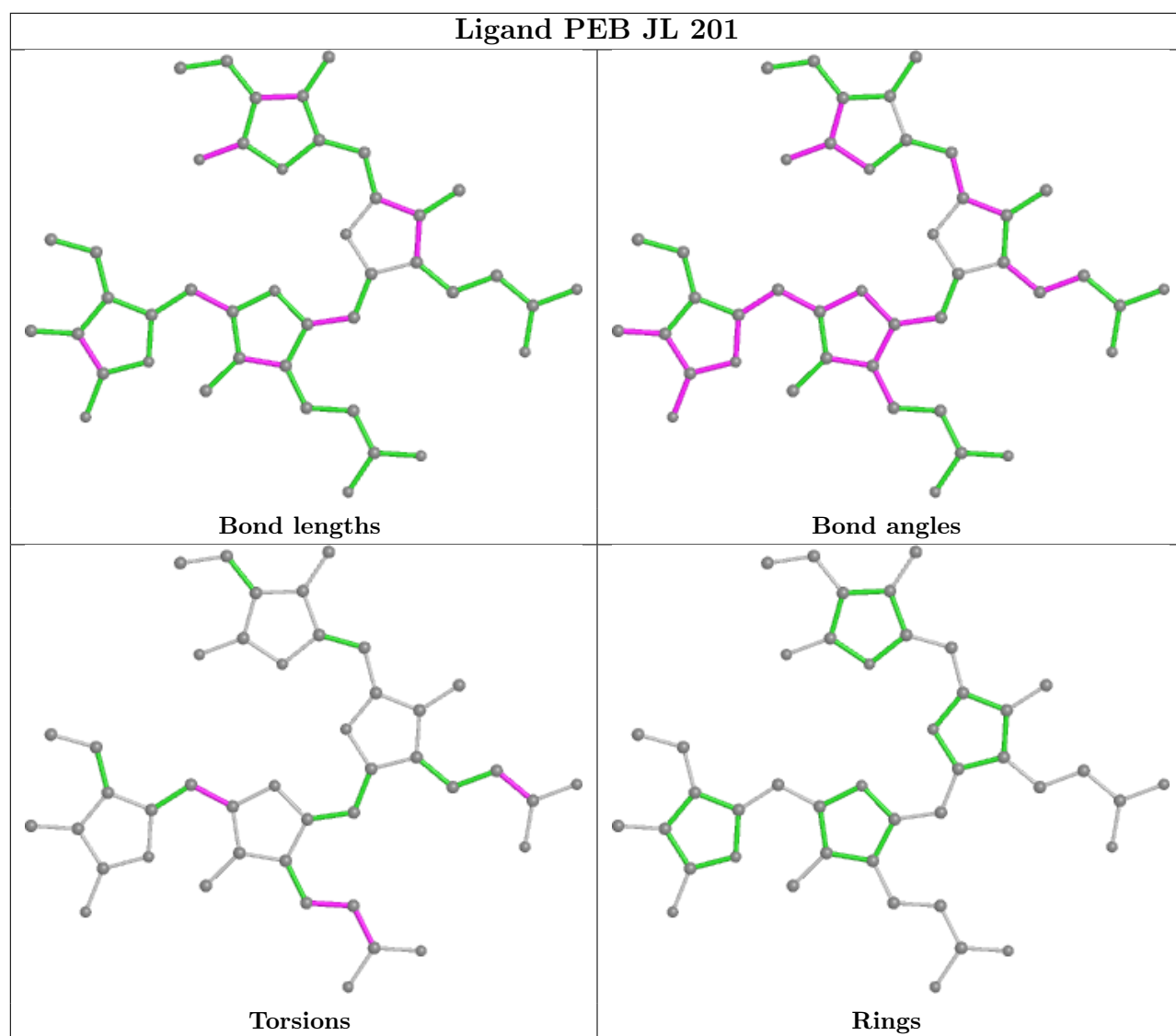


Torsions

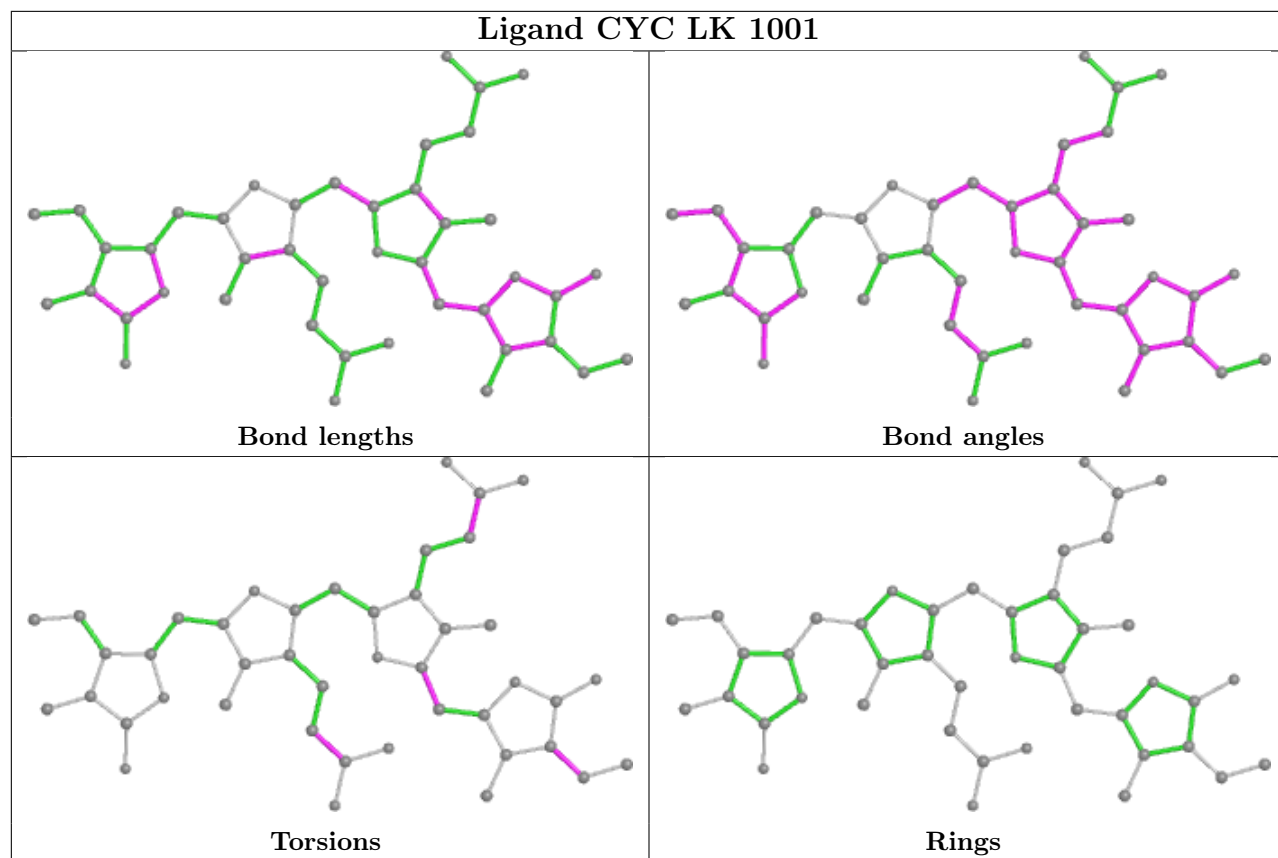


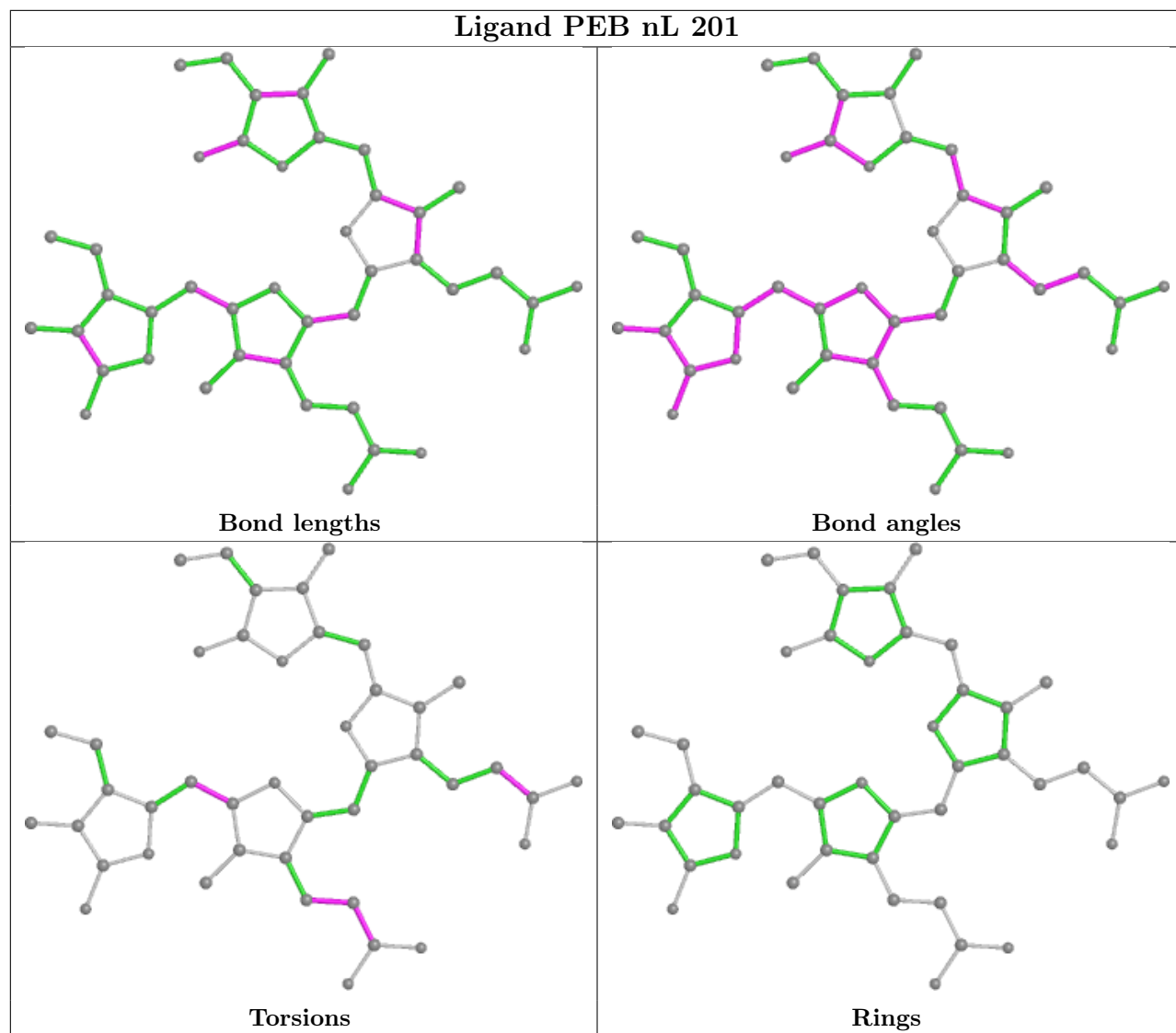
Rings

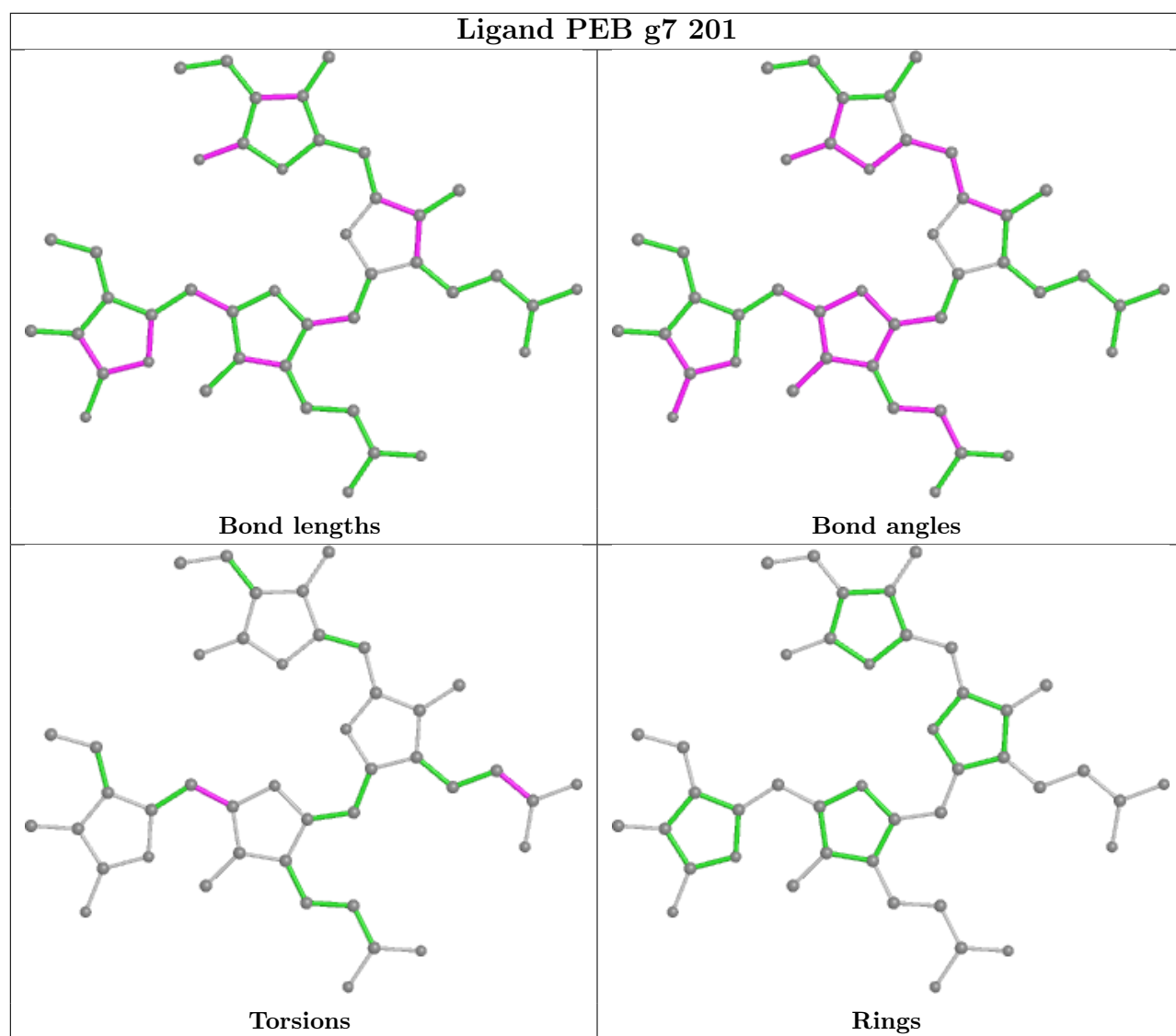




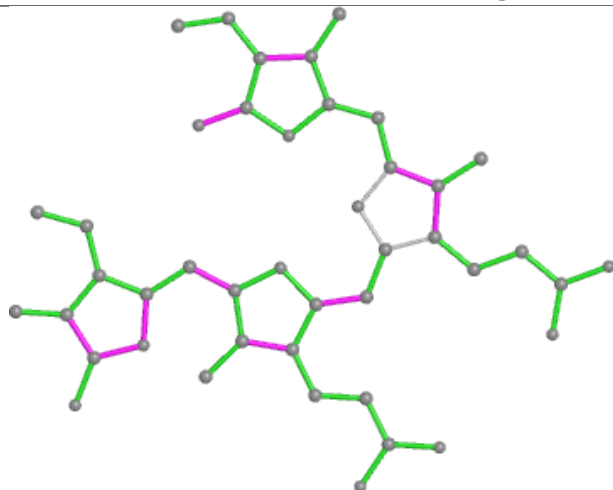
Ligand CYC LK 1001



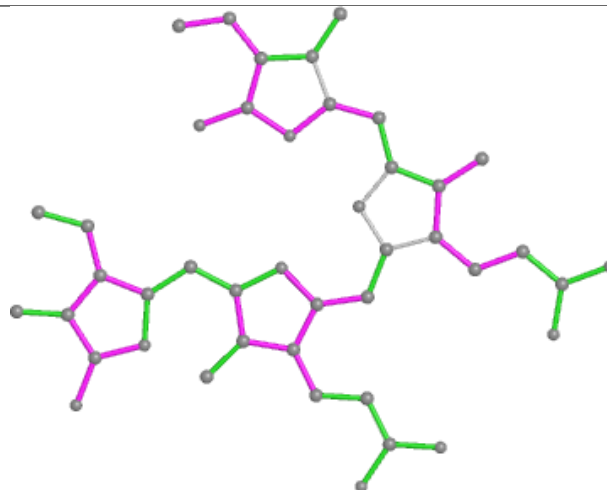




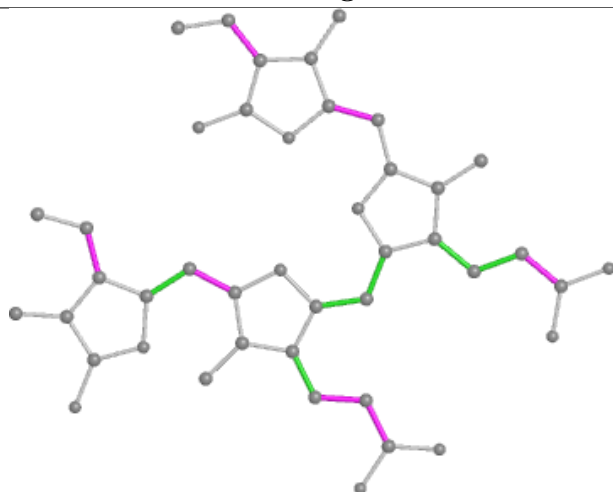
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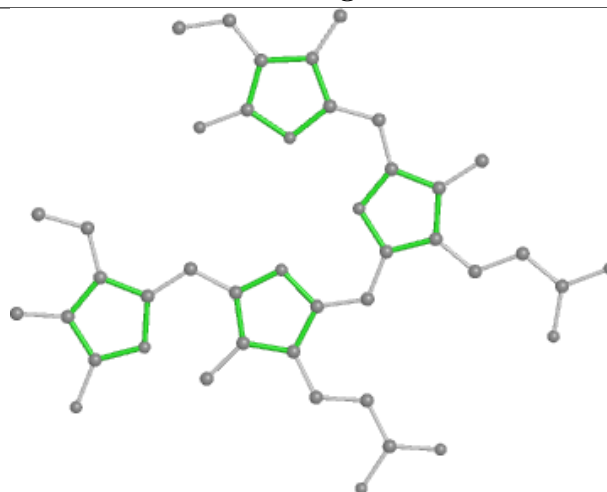
Bond lengths



Bond angles

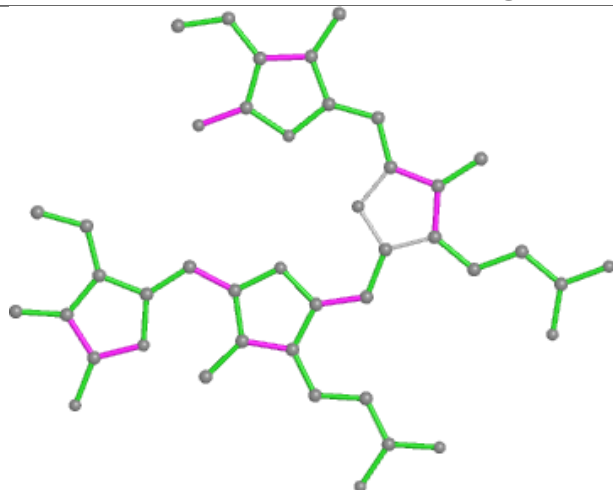


Torsions

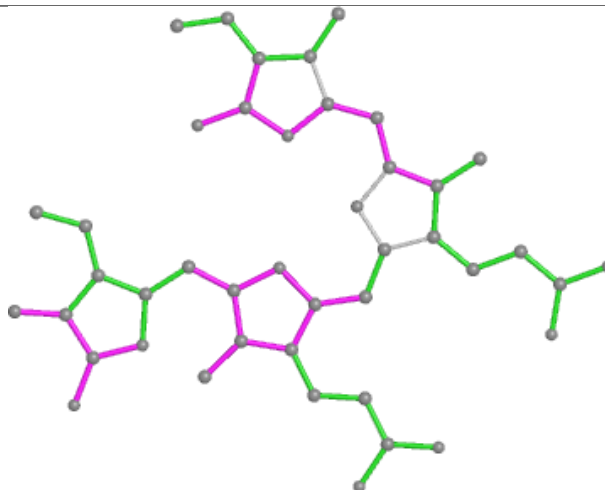


Rings

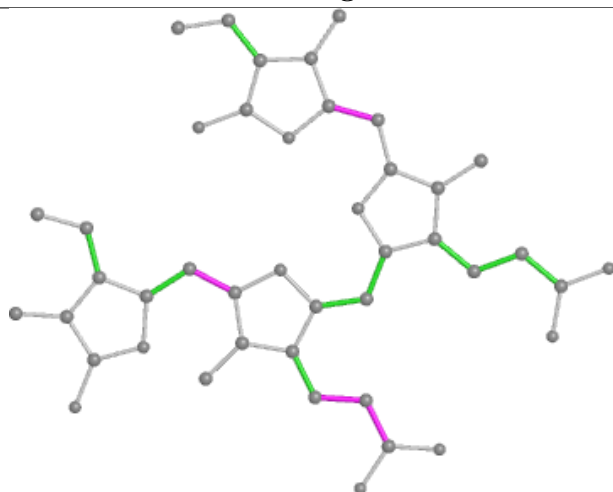
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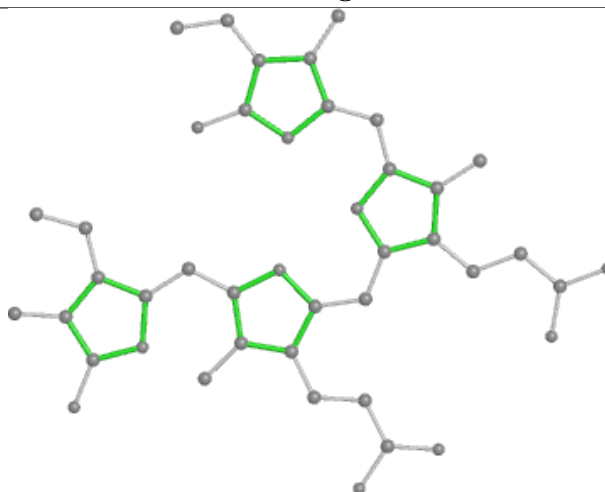
Bond lengths



Bond angles

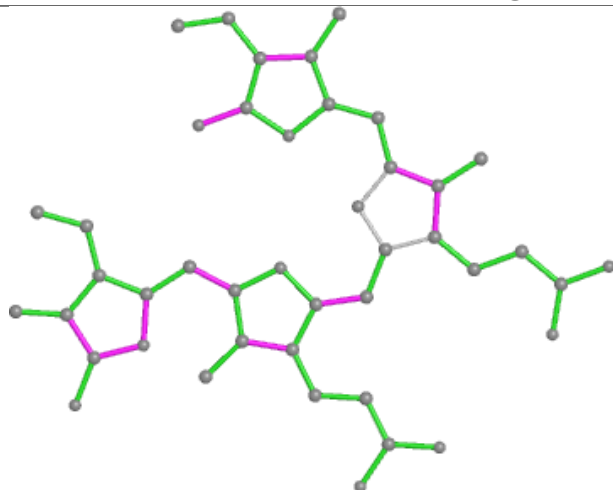


Torsions

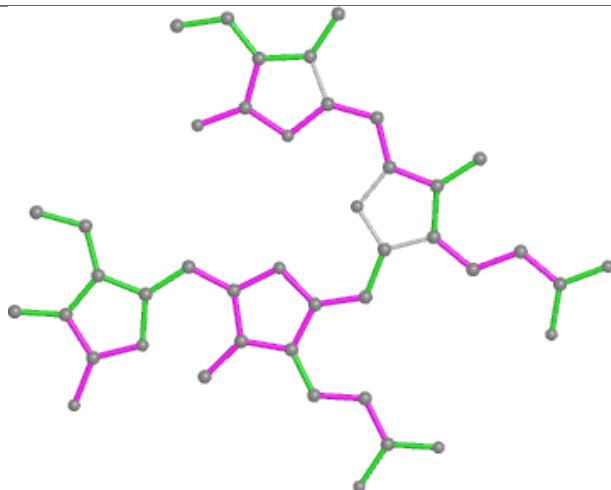


Rings

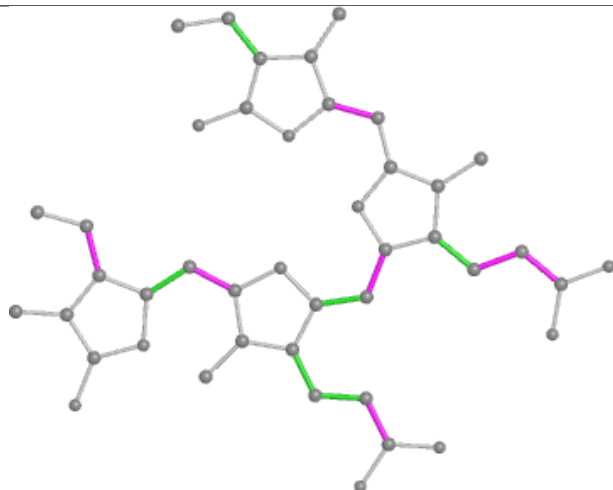
Ligand PEB T2 203



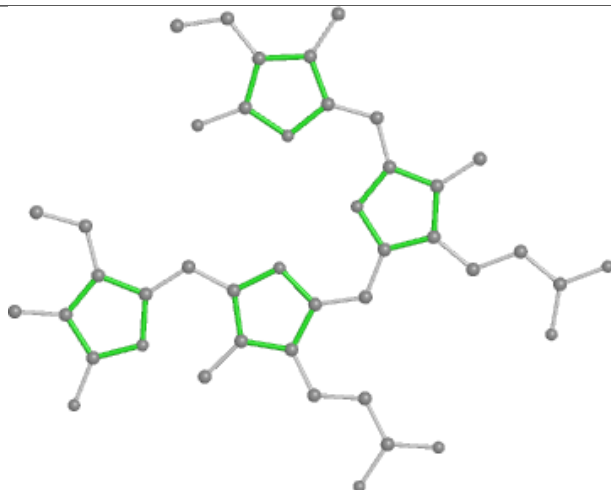
Bond lengths



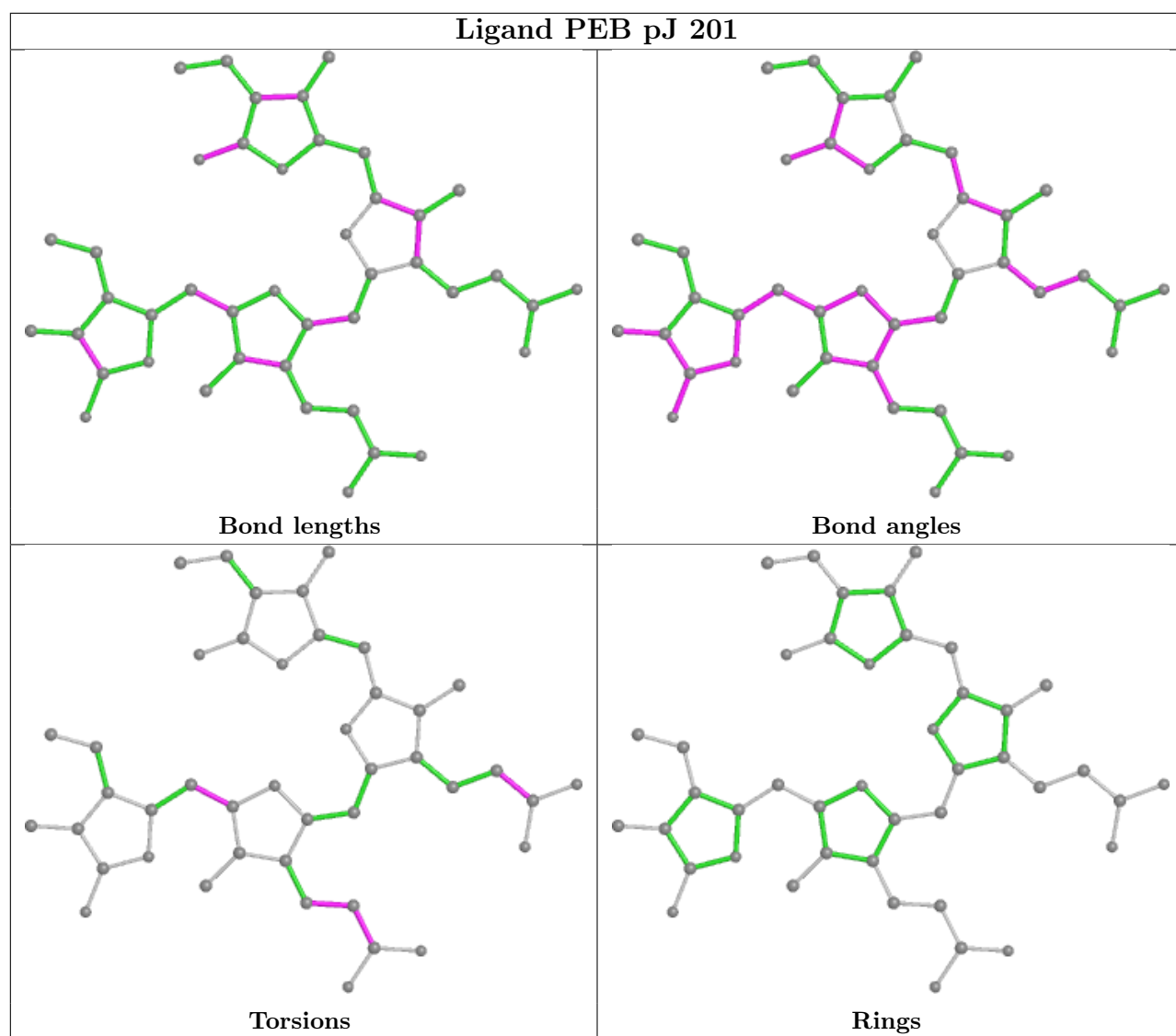
Bond angles



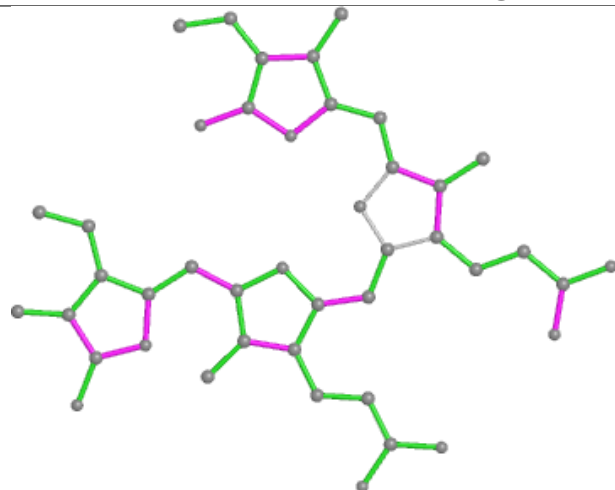
Torsions



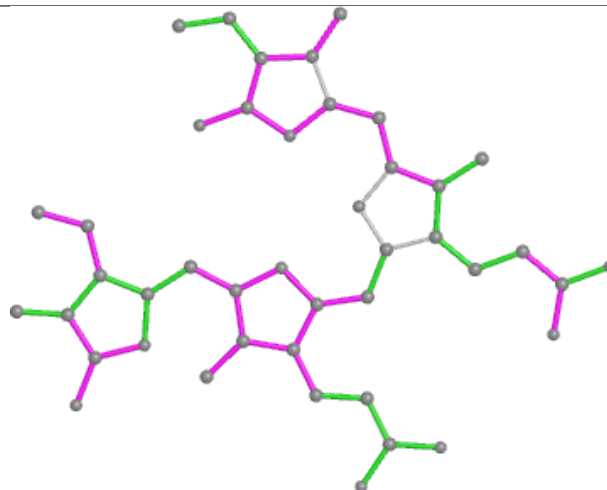
Rings



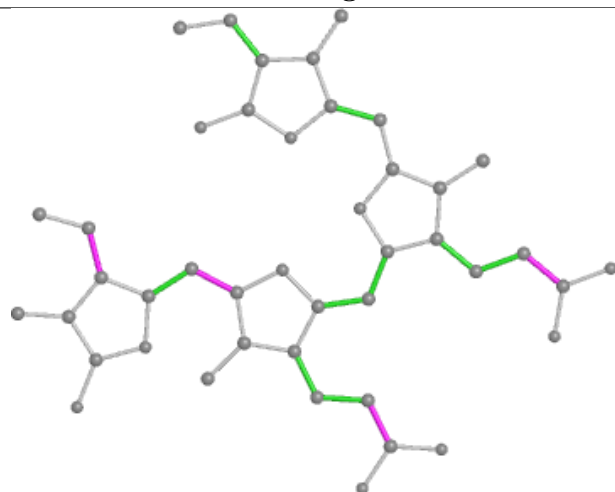
Ligand PEB HK 1002



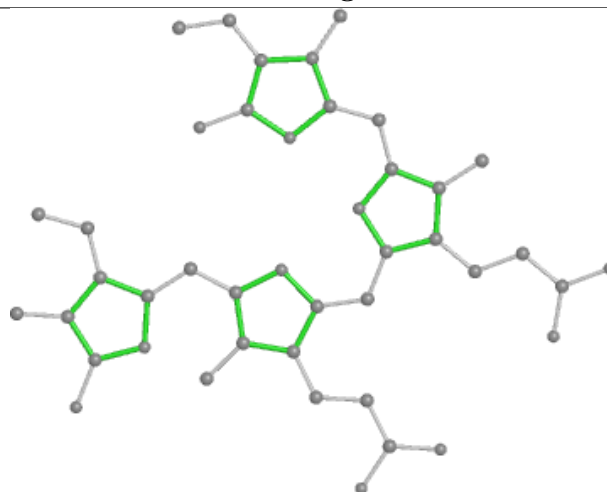
Bond lengths



Bond angles

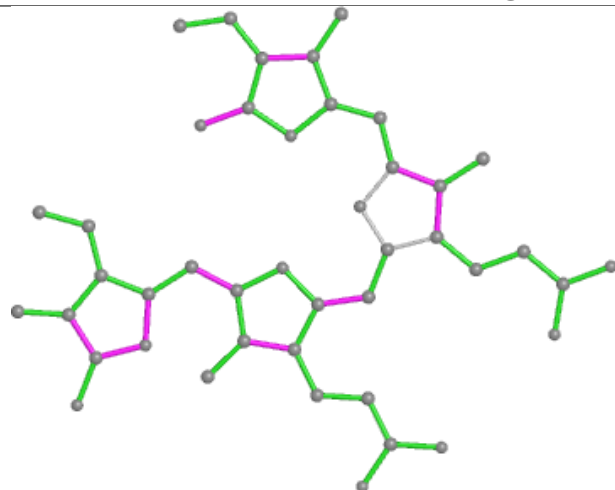


Torsions

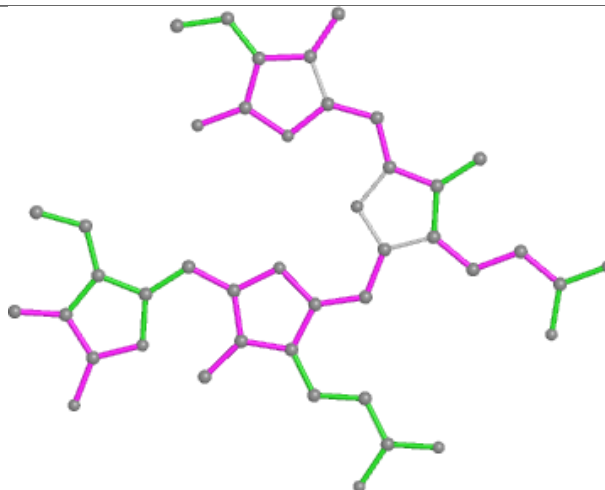


Rings

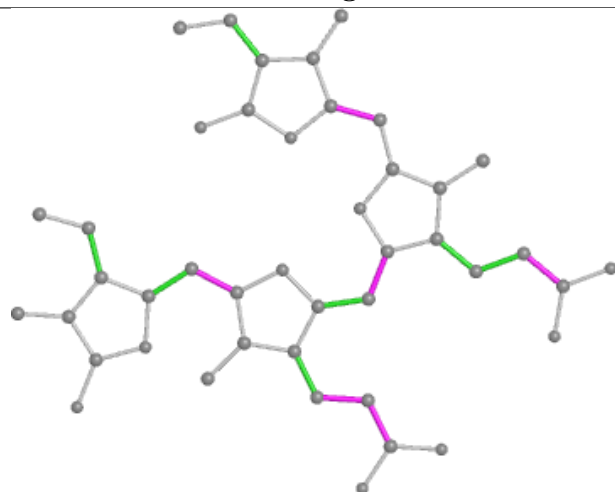
Ligand PEB GD 203



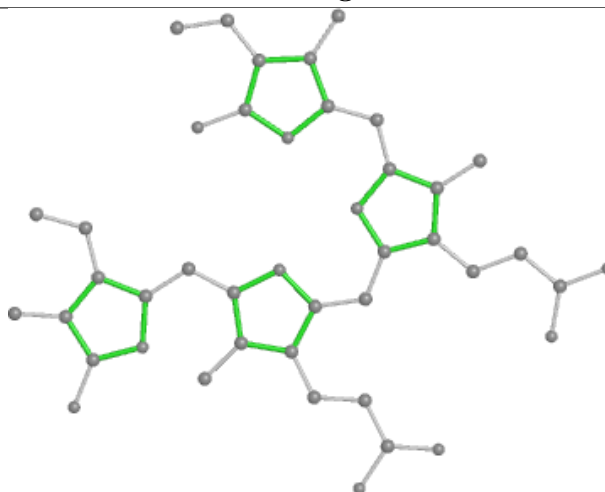
Bond lengths



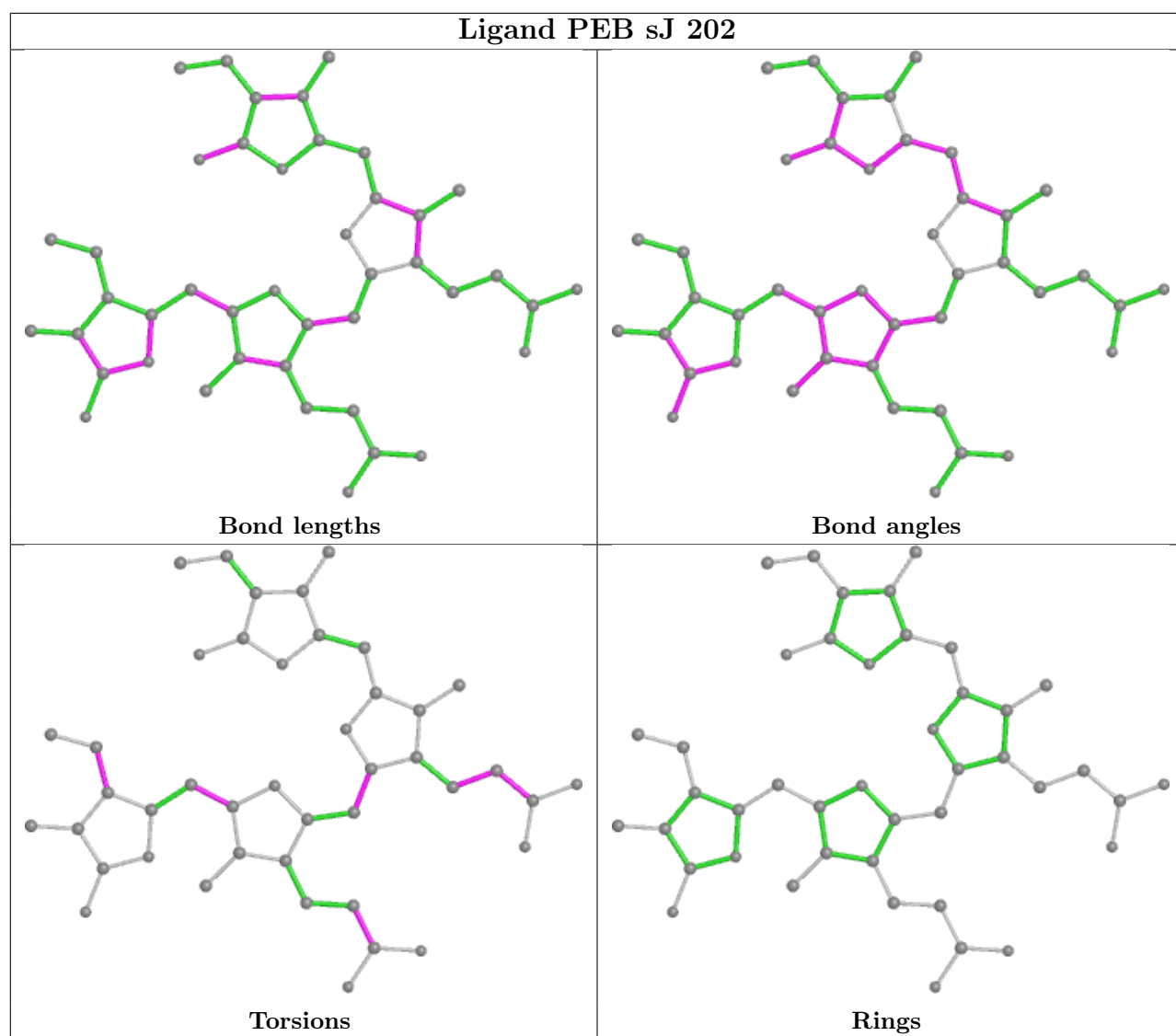
Bond angles



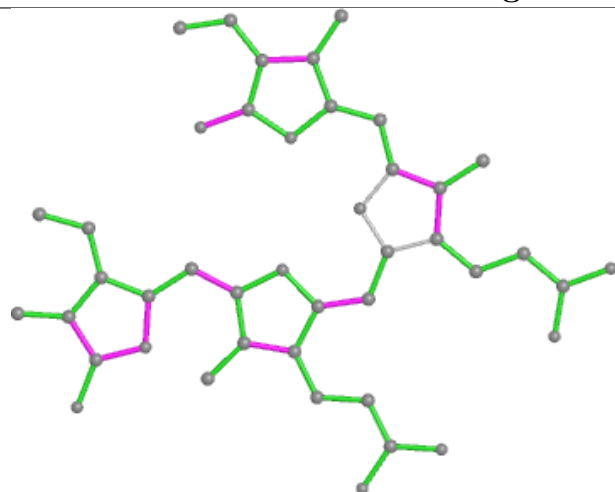
Torsions



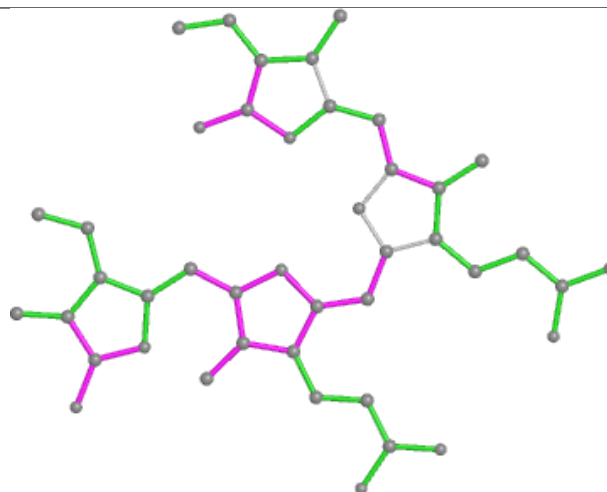
Rings



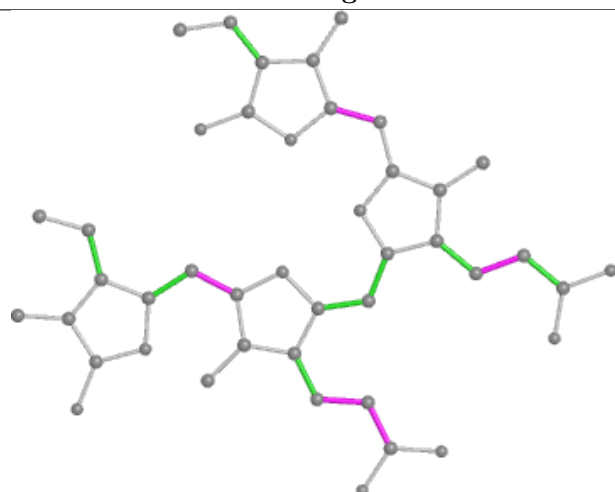
Ligand PEB CG 201



Bond lengths



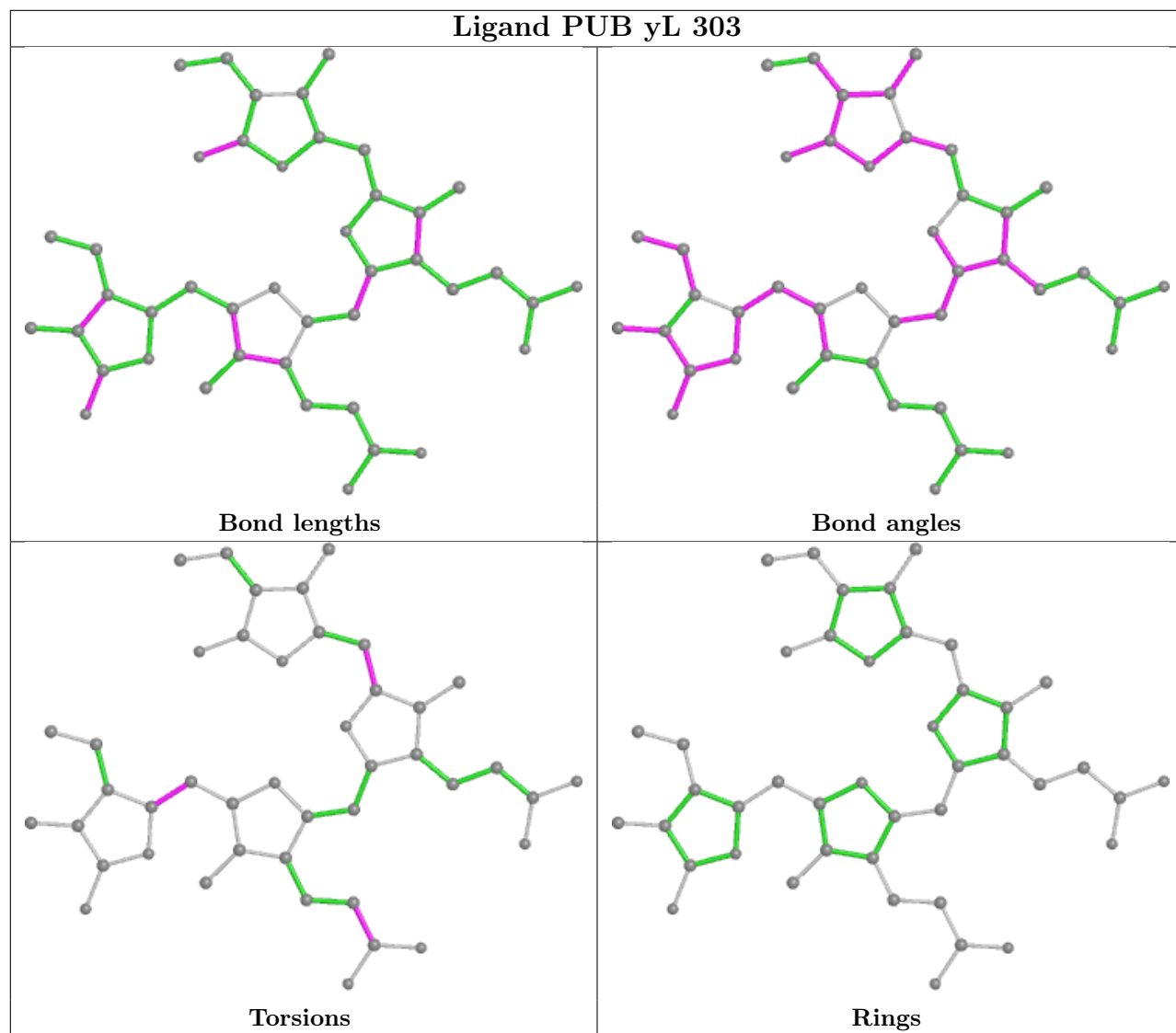
Bond angles



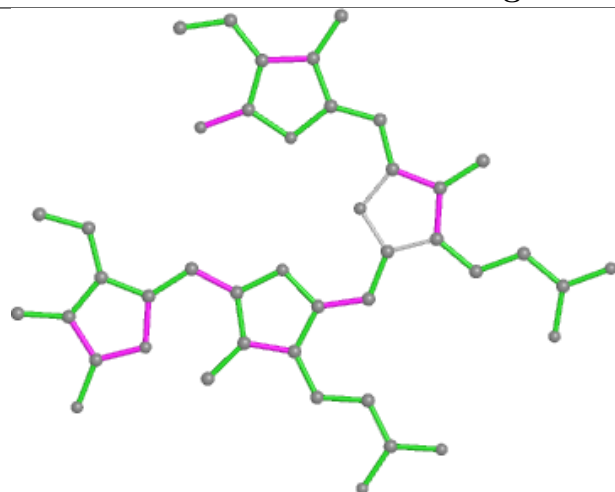
Torsions



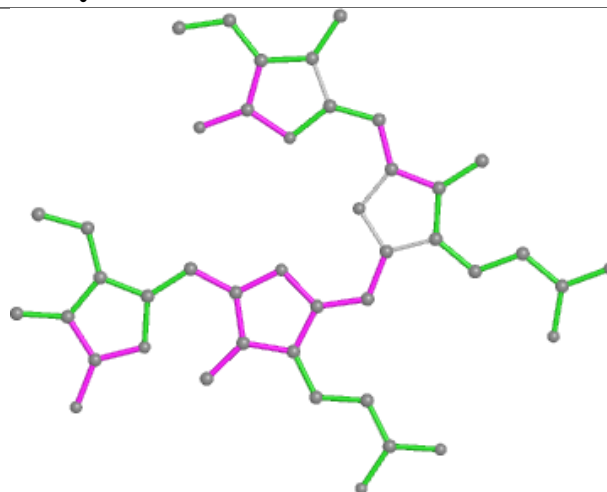
Rings



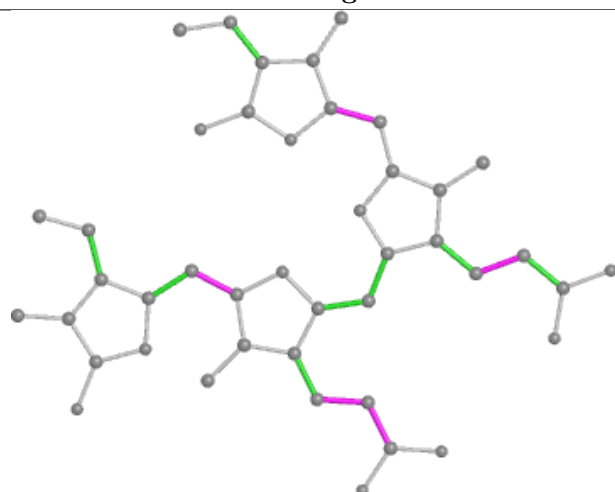
Ligand PEB AQ 201



Bond lengths



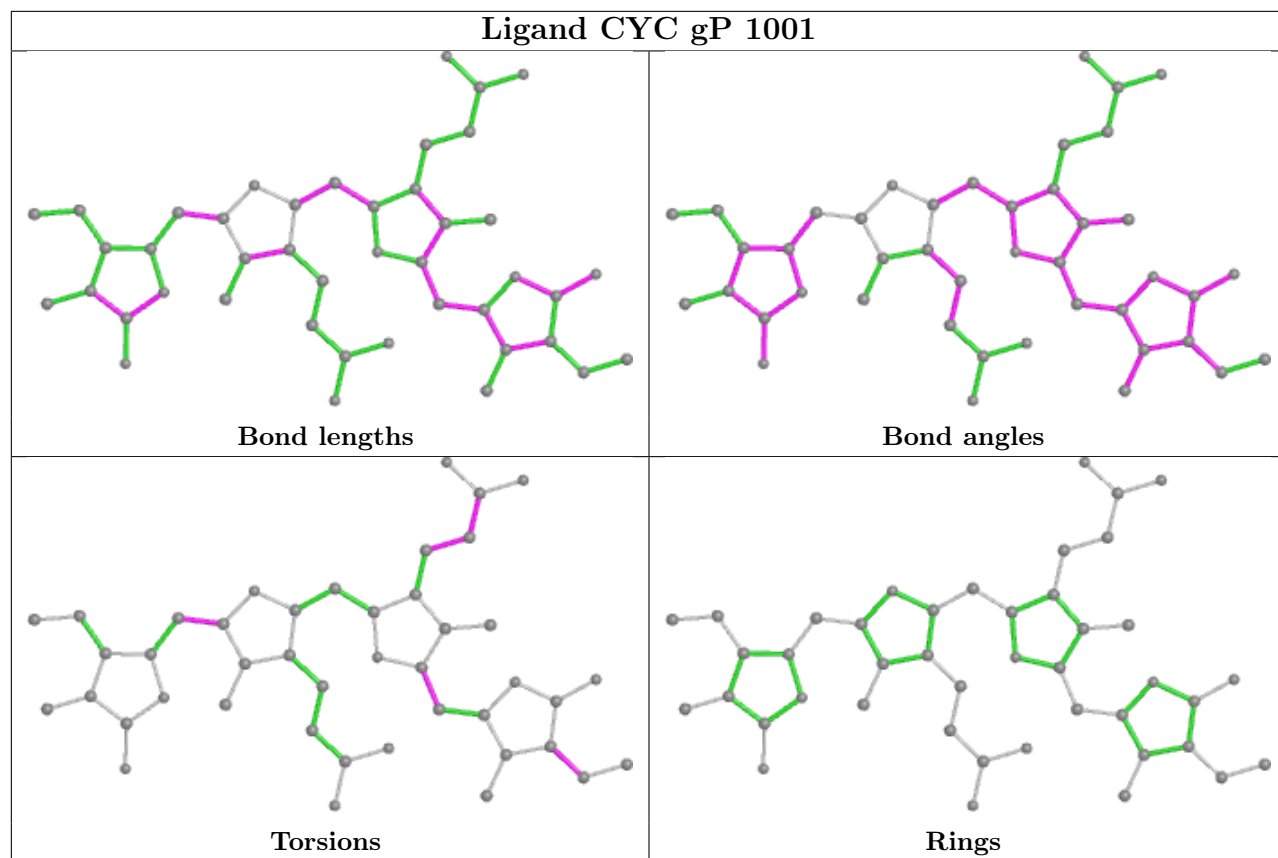
Bond angles



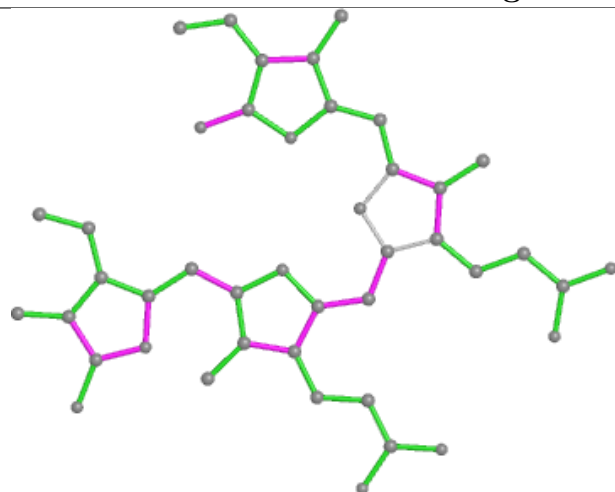
Torsions



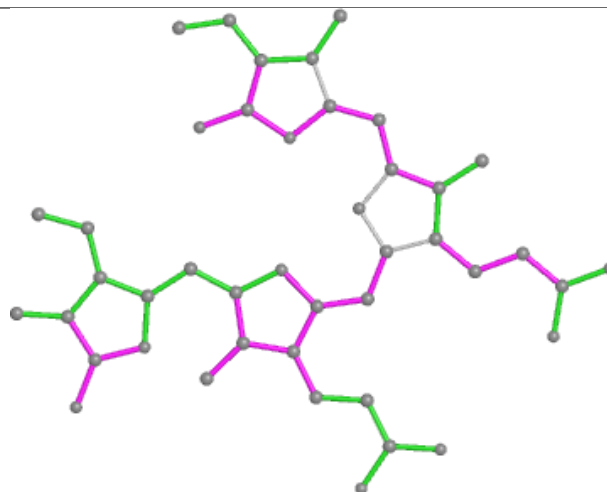
Rings



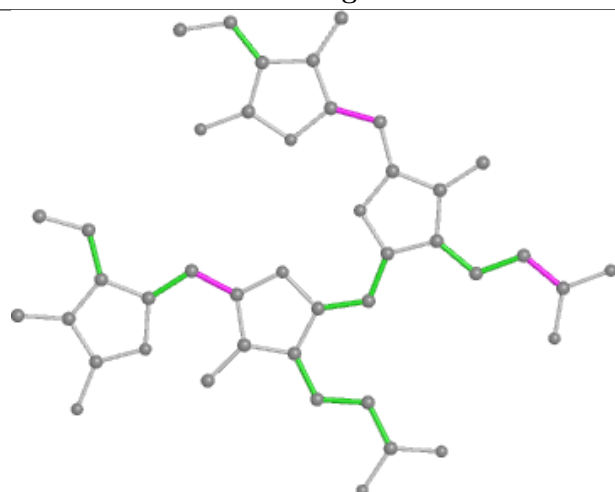
Ligand PEB DC 201



Bond lengths



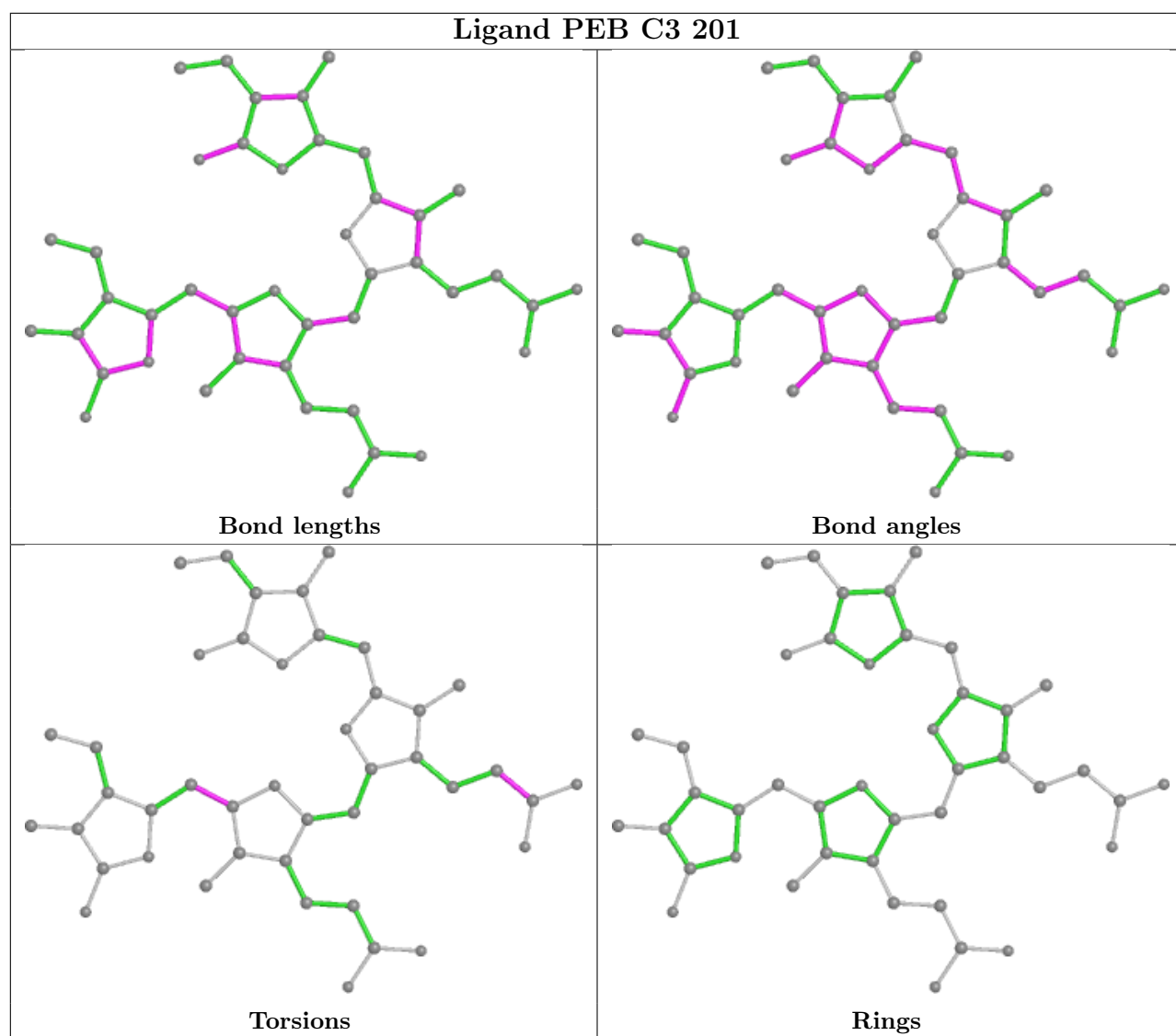
Bond angles

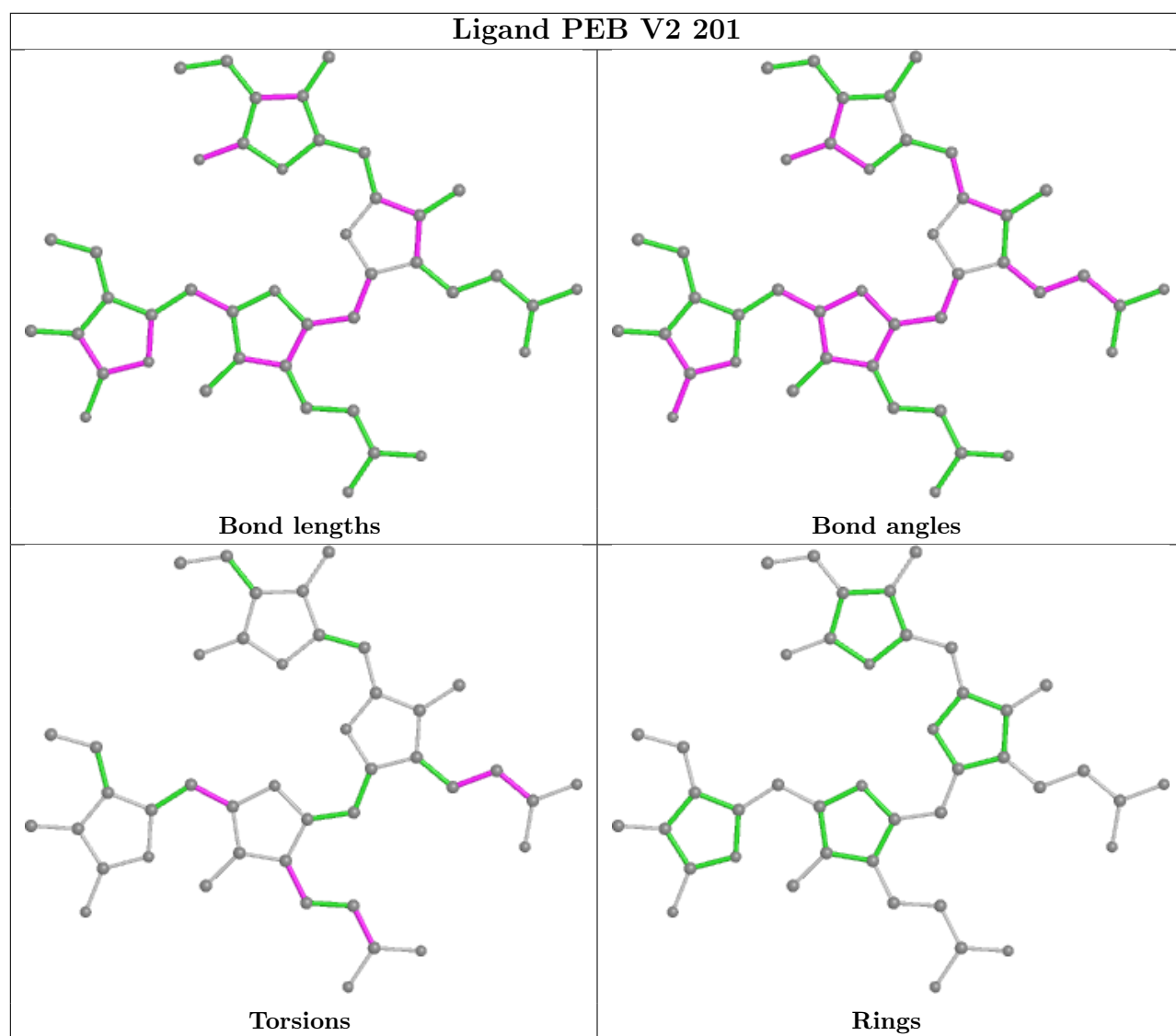


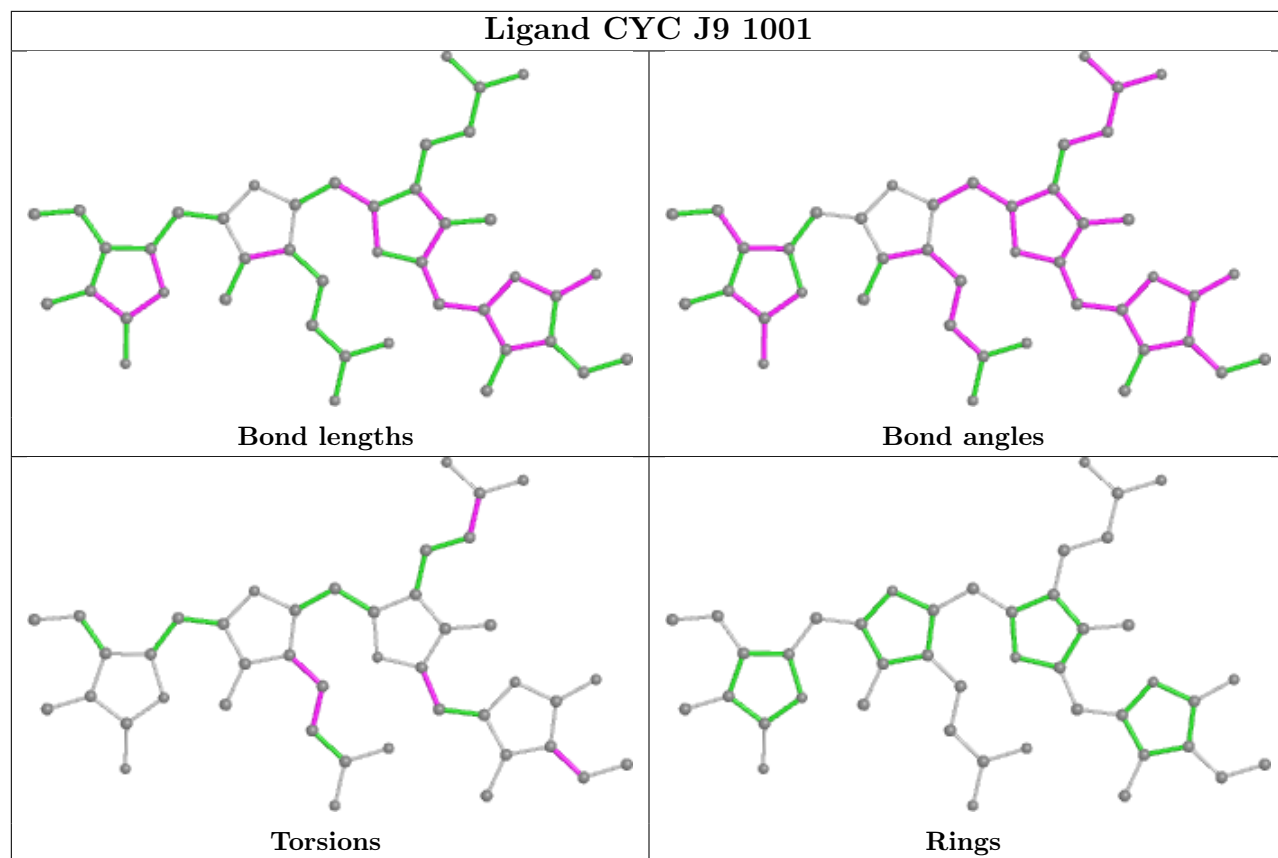
Torsions



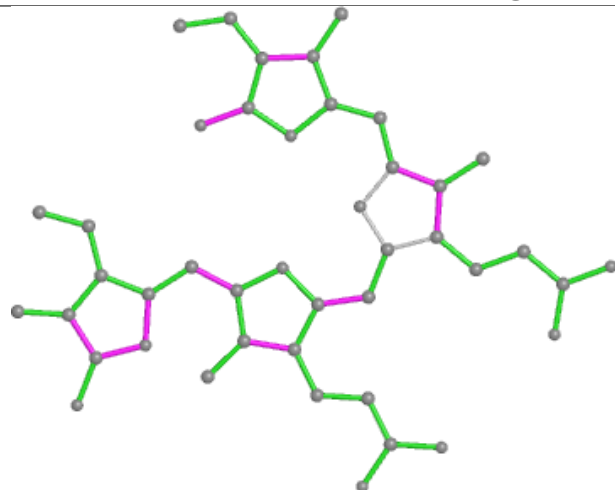
Rings



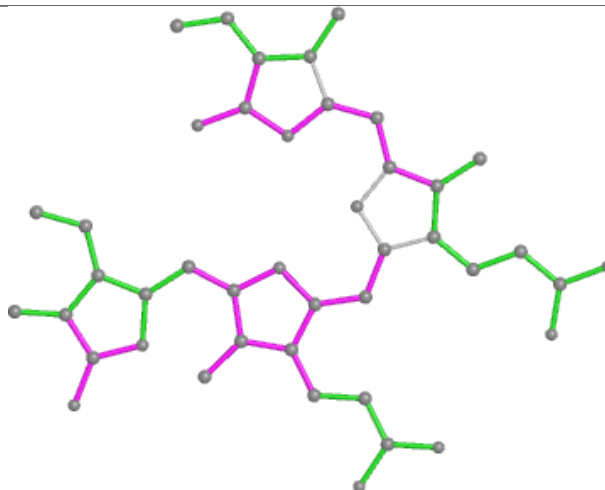




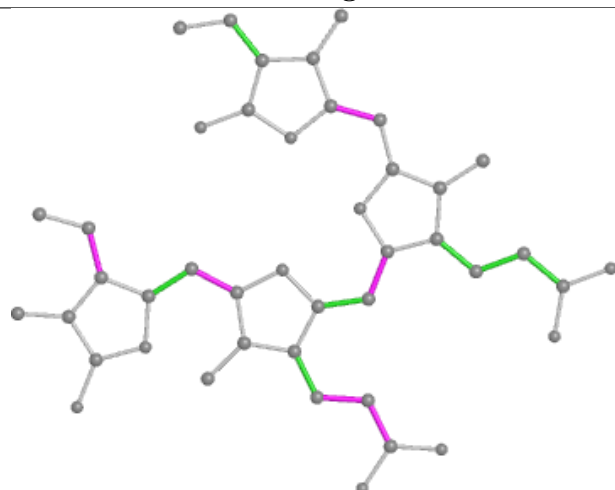
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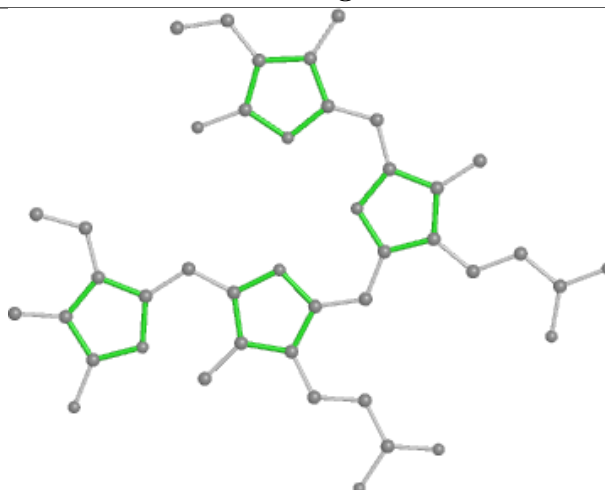
Bond lengths



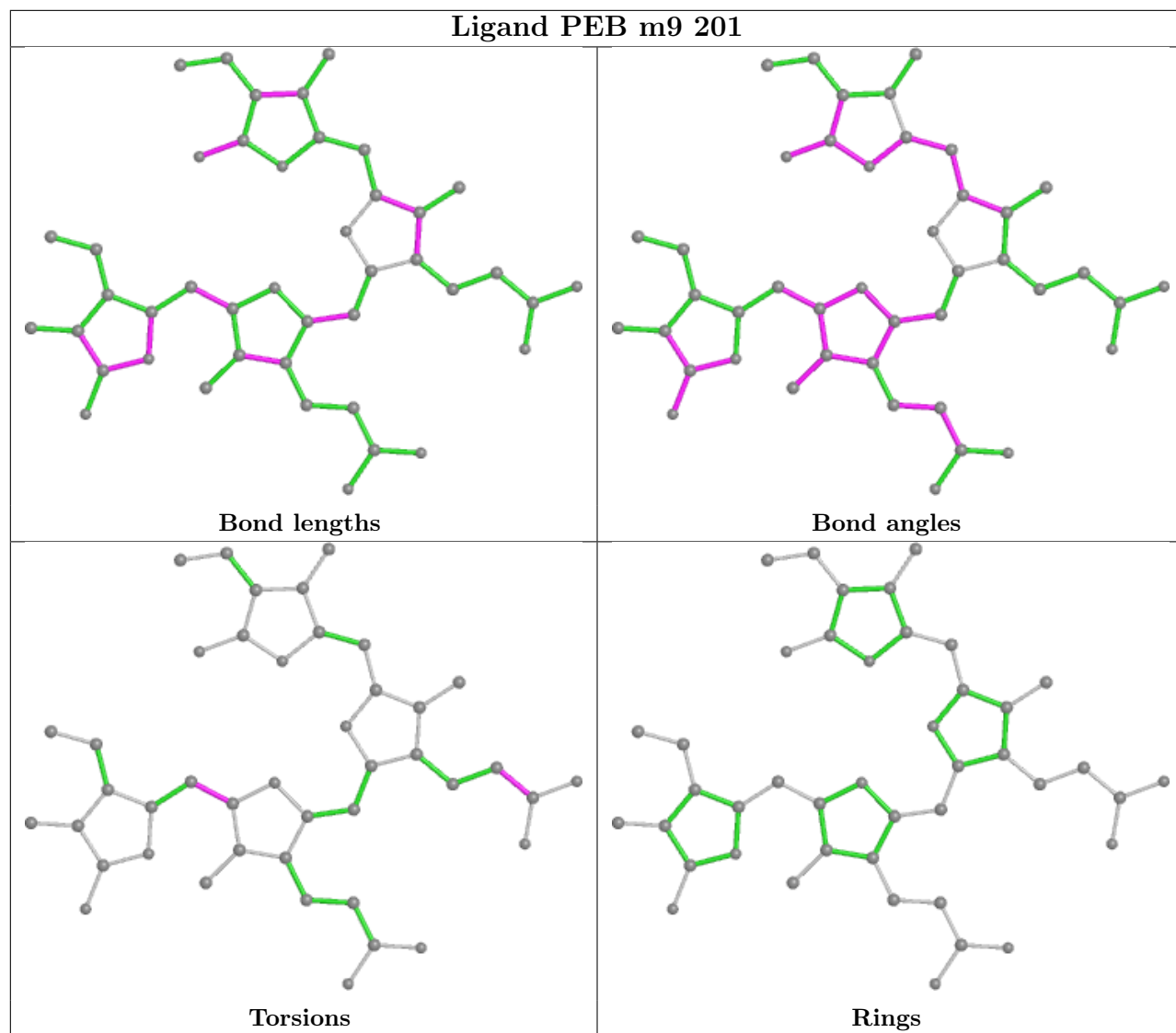
Bond angles



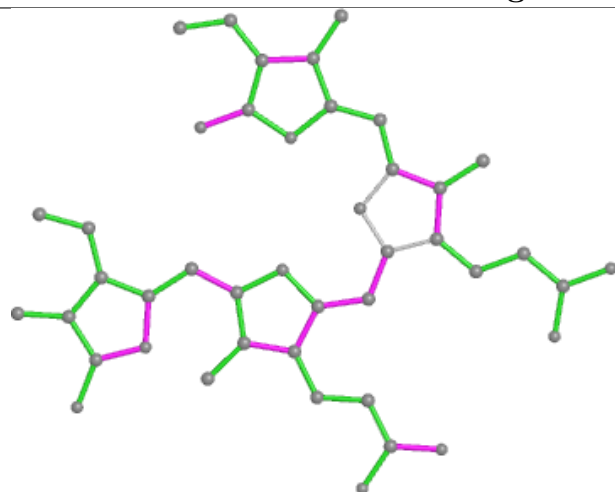
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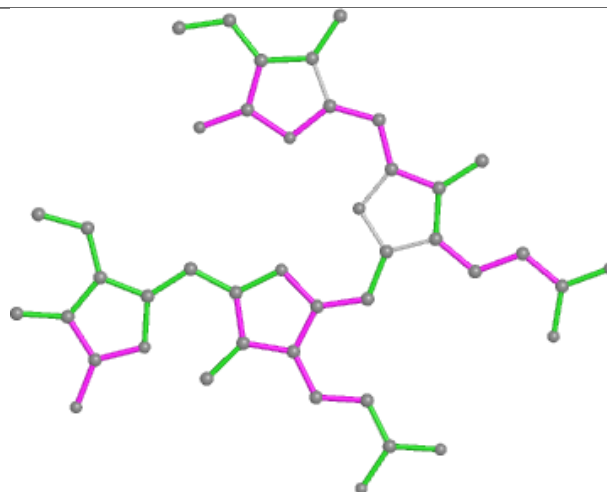
Rings



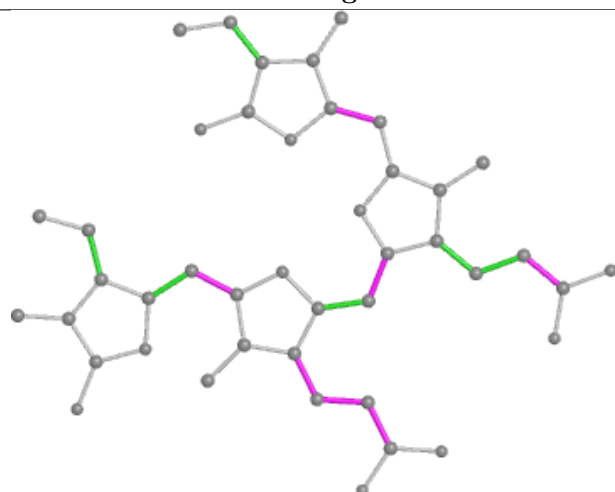
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Bond lengths



Bond angles

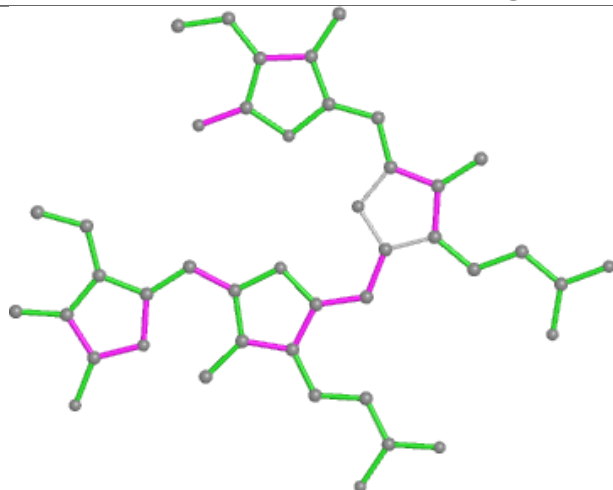


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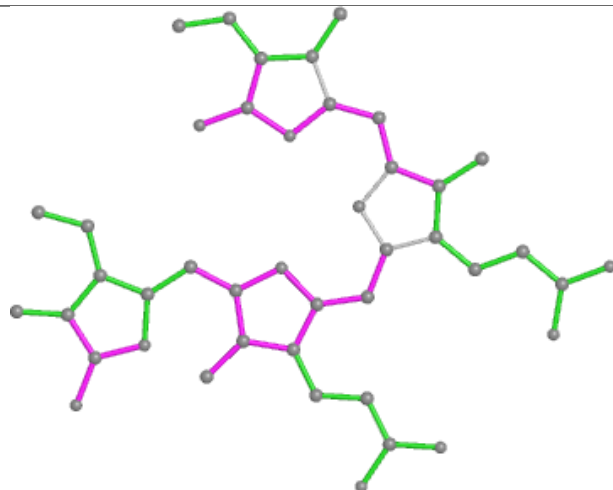


Rings

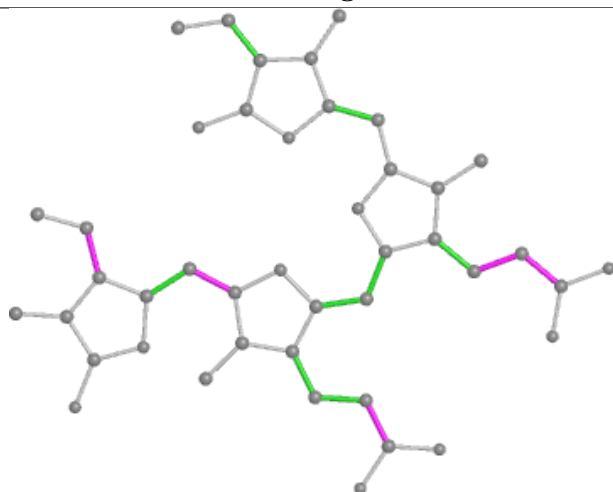
Ligand PEB K3 202



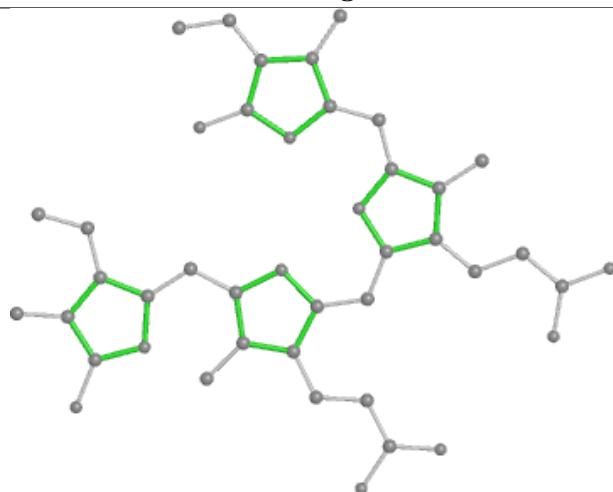
Bond lengths



Bond angles

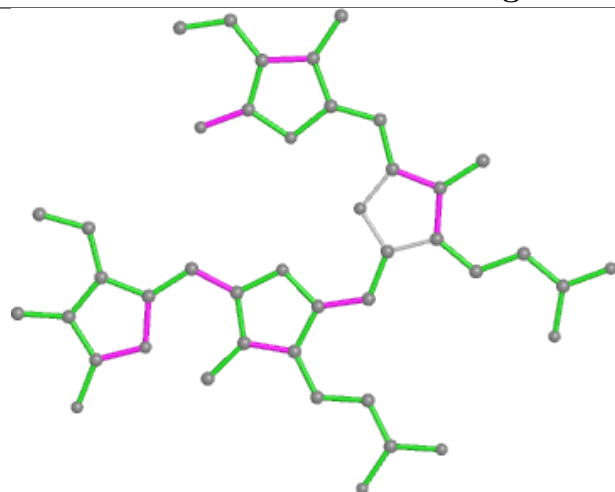


Torsions

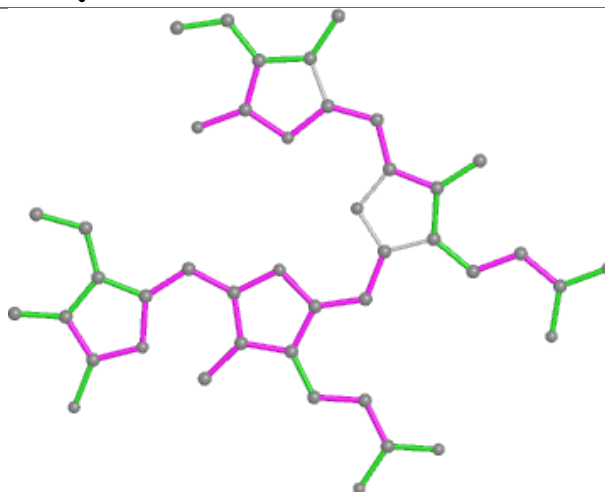


Rings

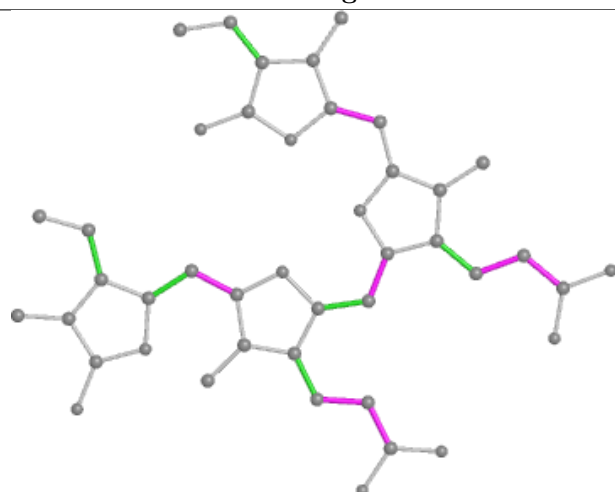
Ligand PEB DQ 203



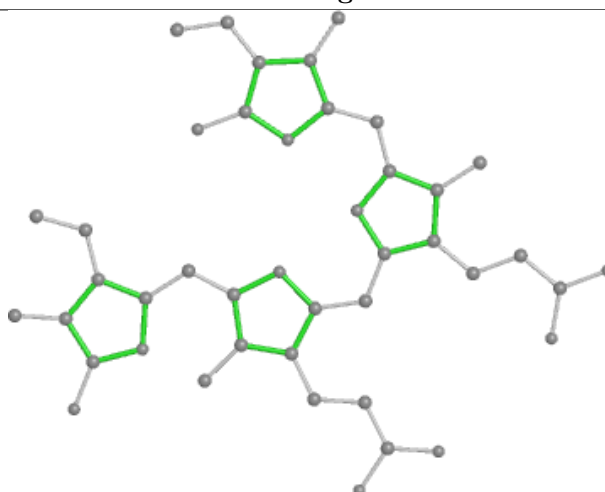
Bond lengths



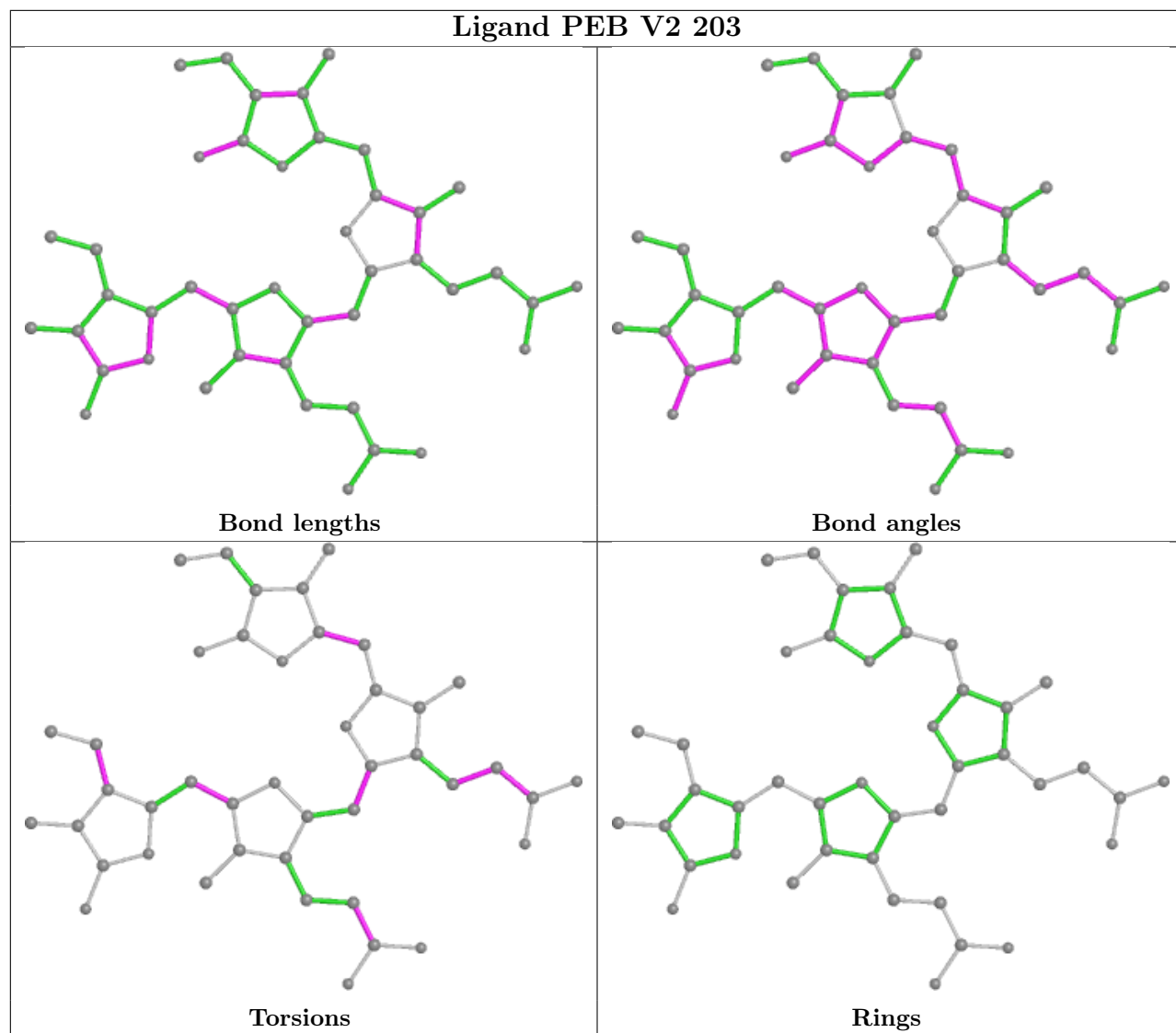
Bond angles

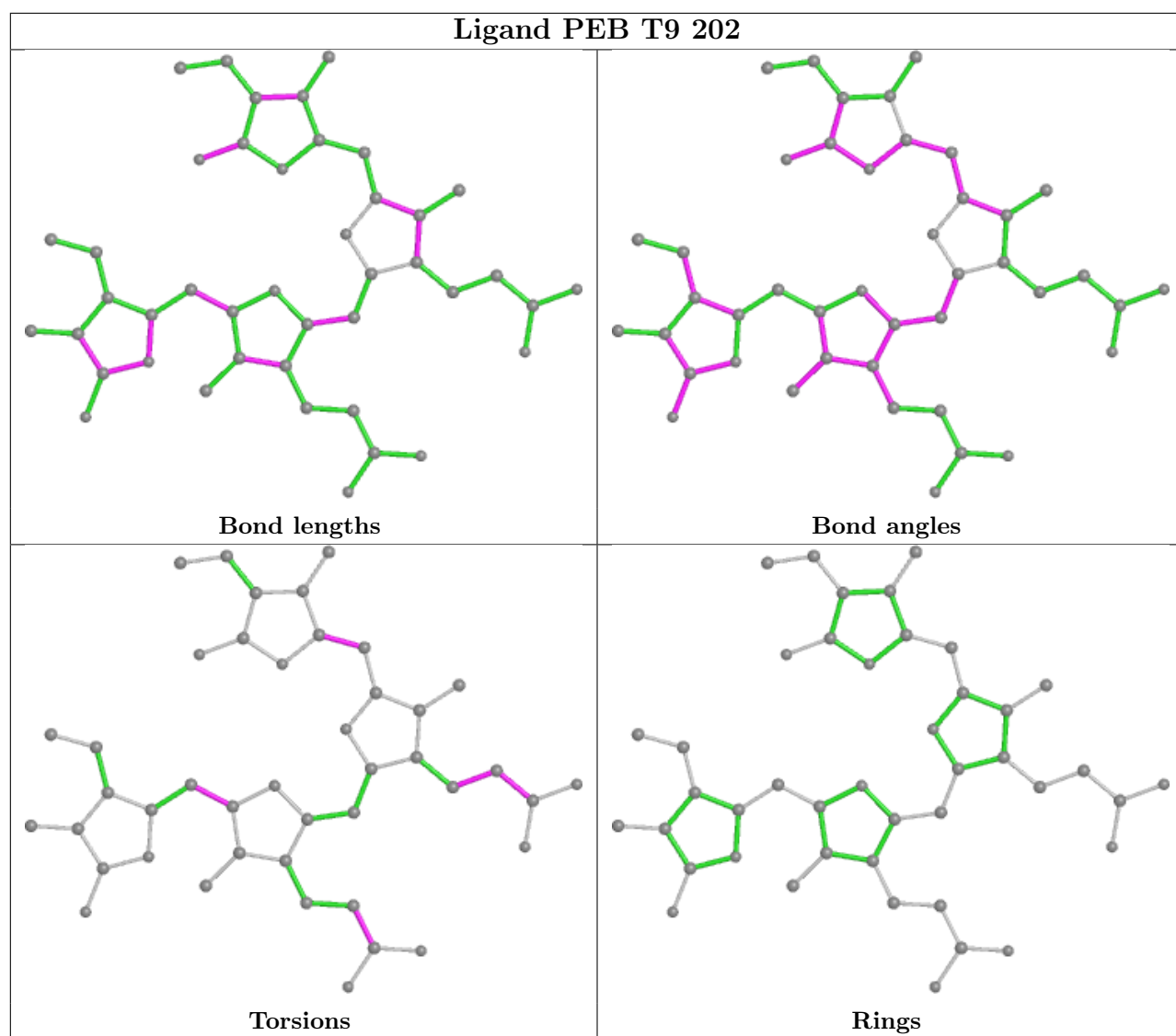


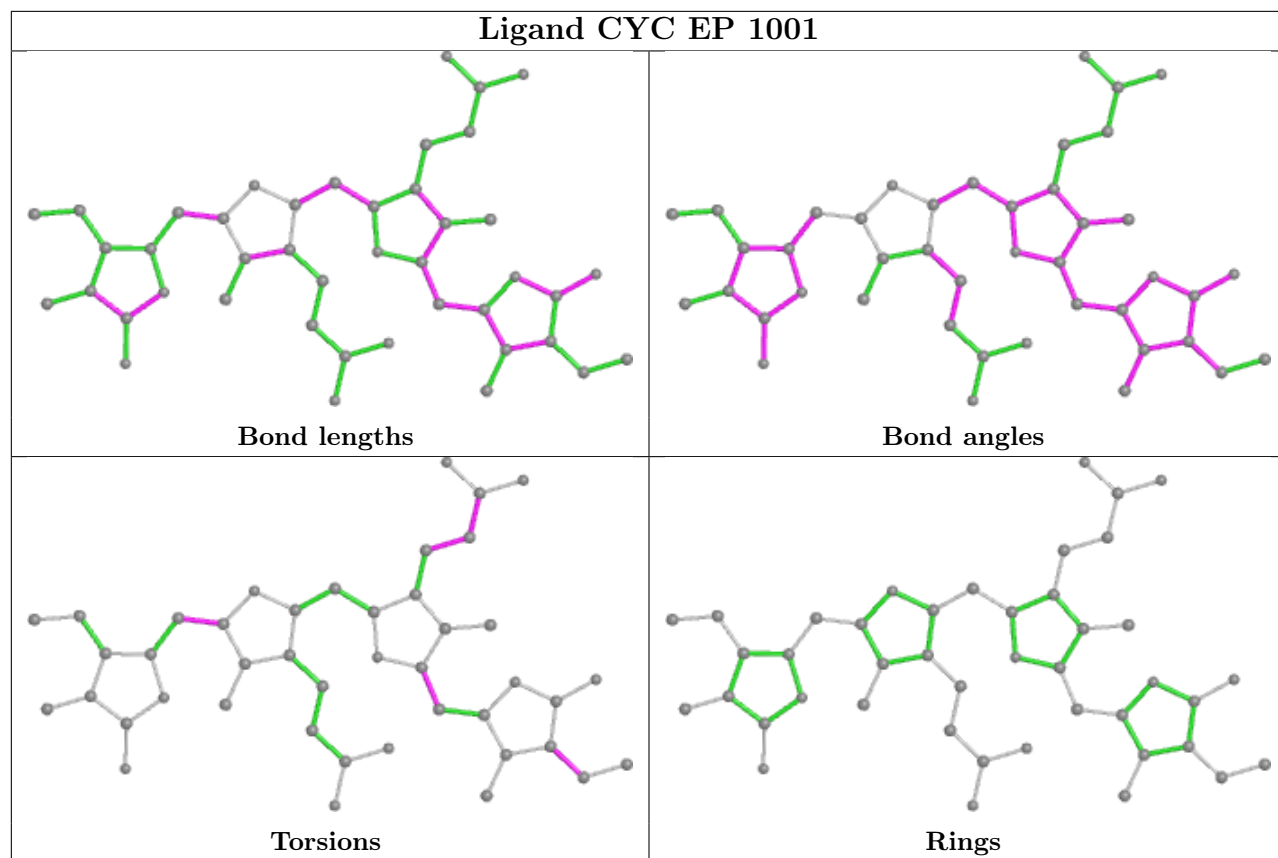
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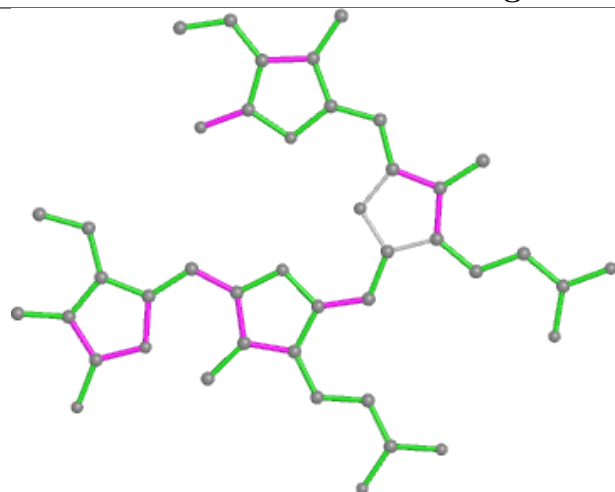
Rings



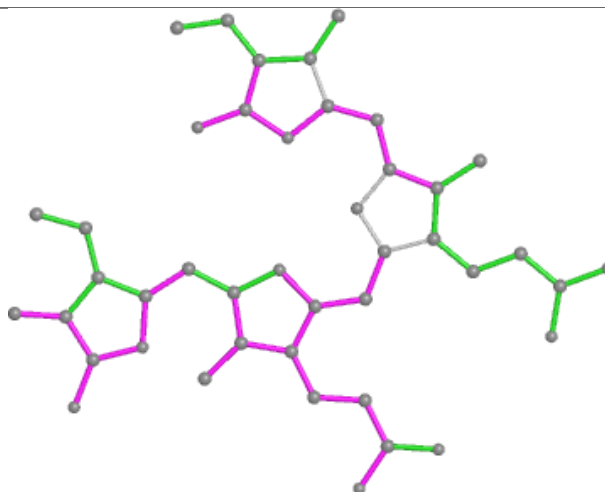




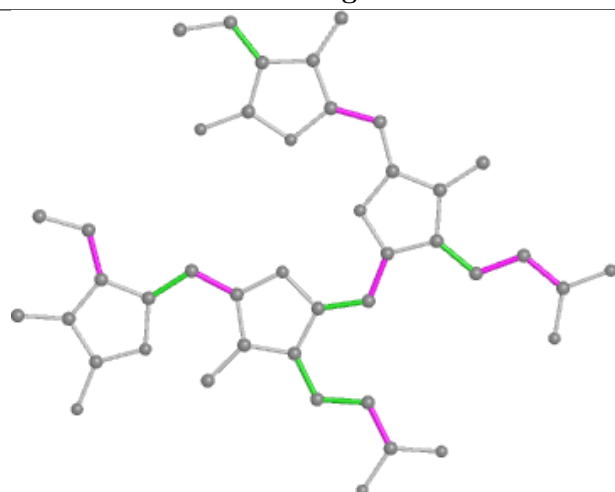
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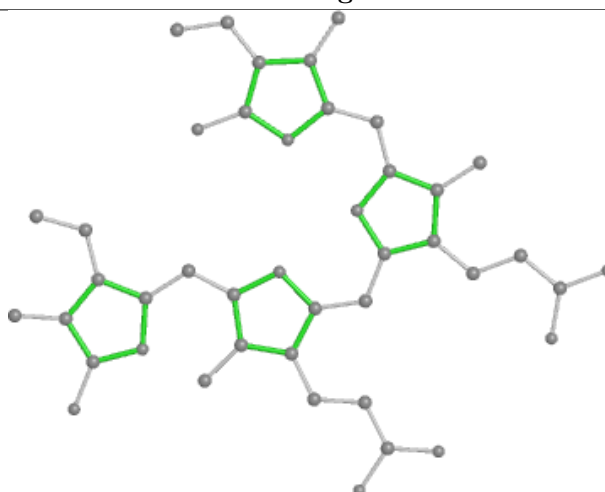
Bond lengths



Bond angles

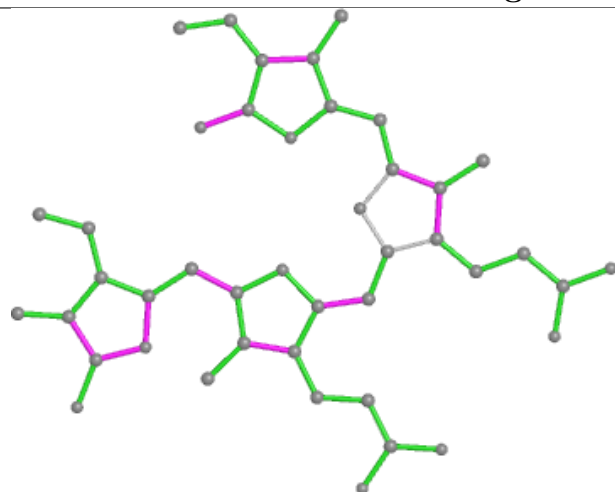


Torsions

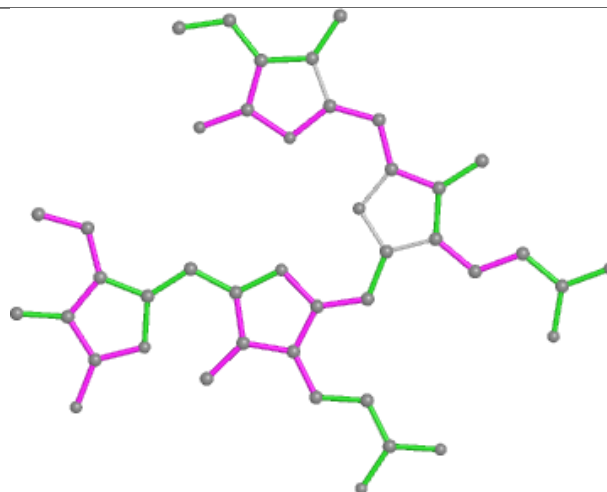


Rings

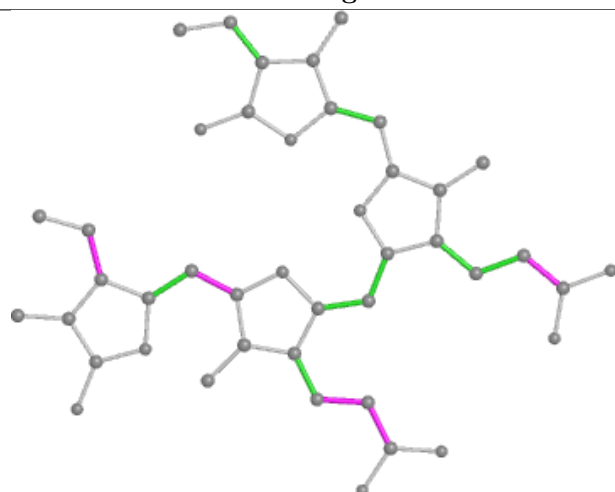
Ligand PEB UF 203



Bond lengths



Bond angles

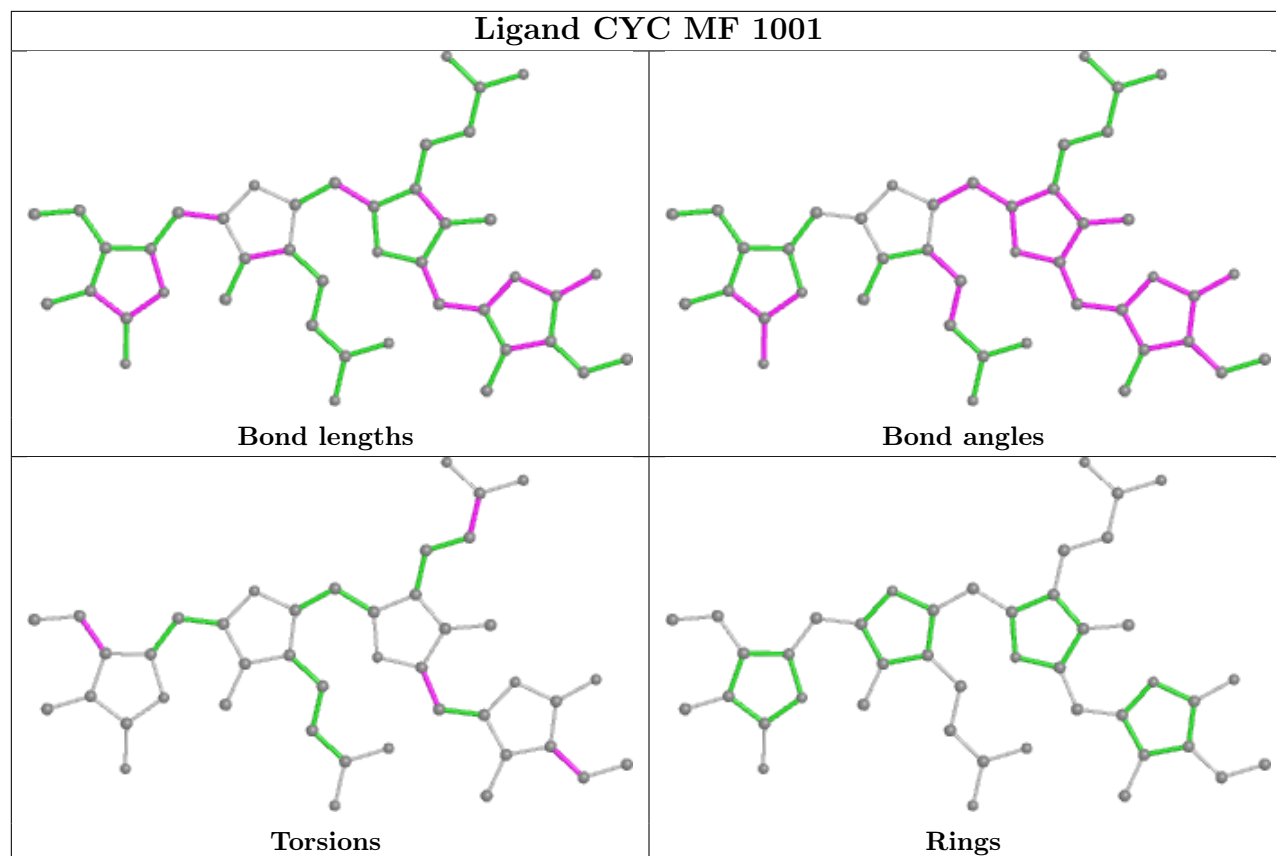


Torsions

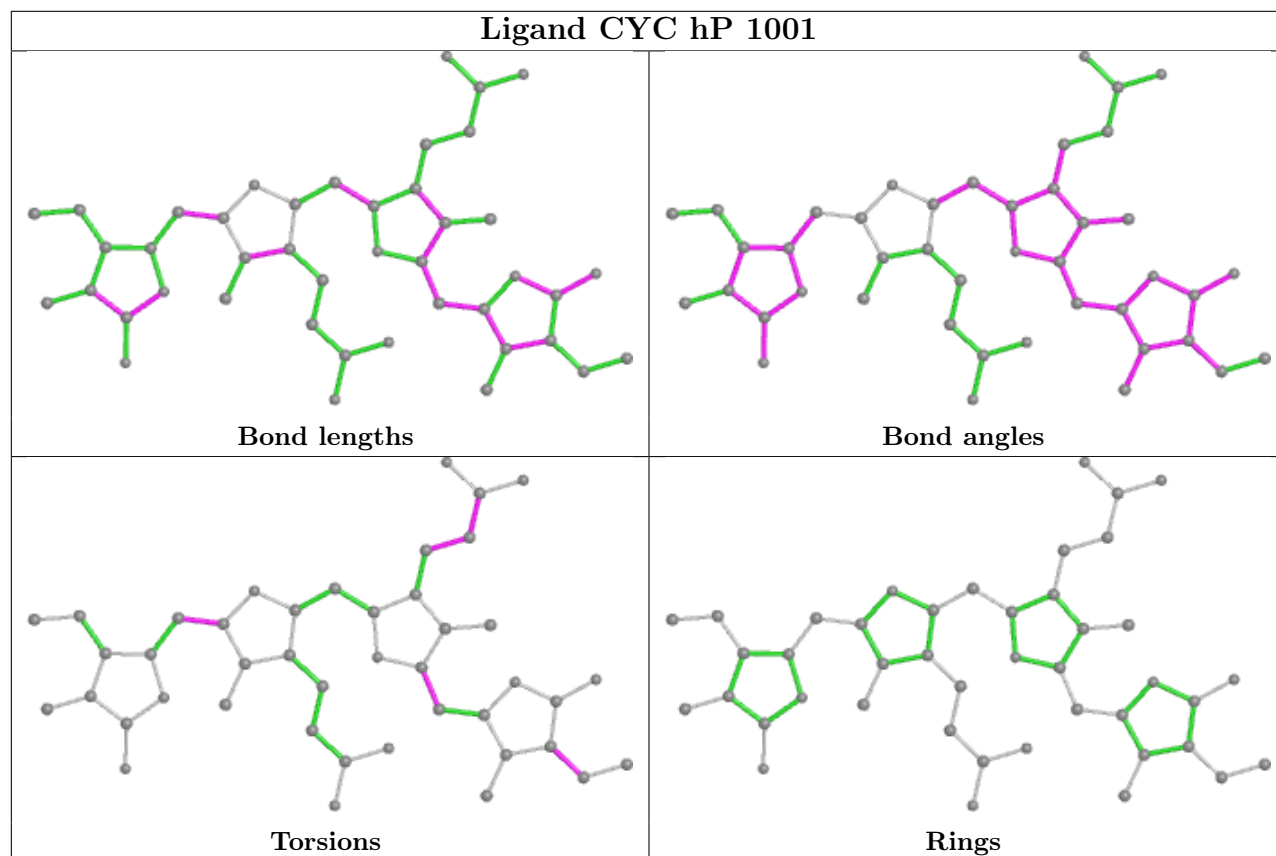


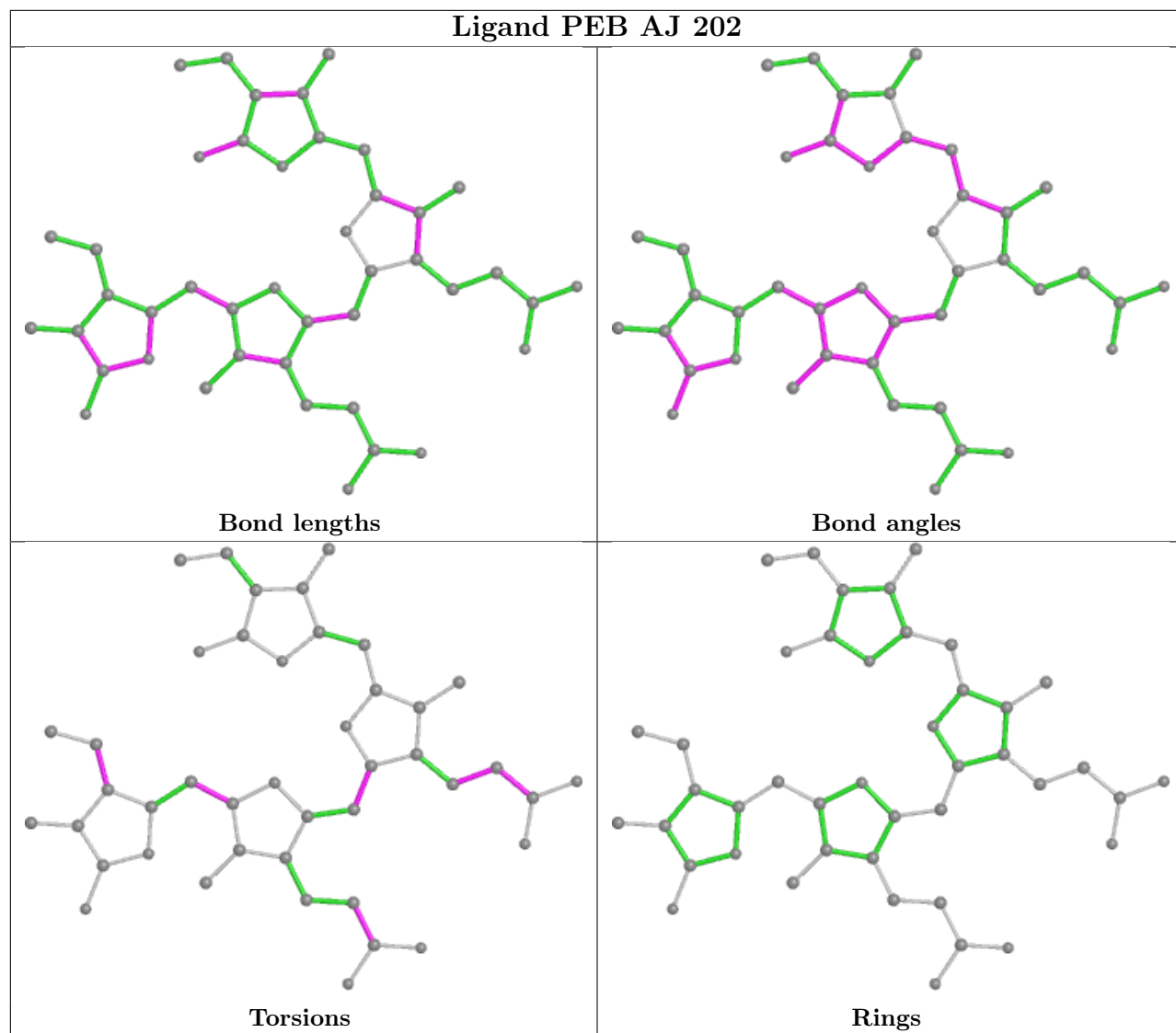
Rings

Ligand CYC MF 1001

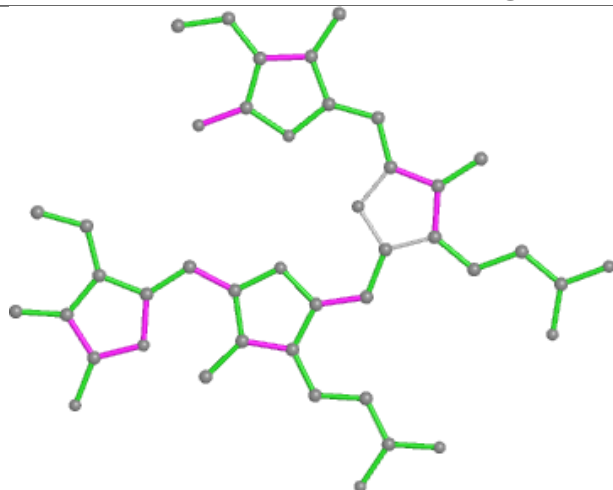


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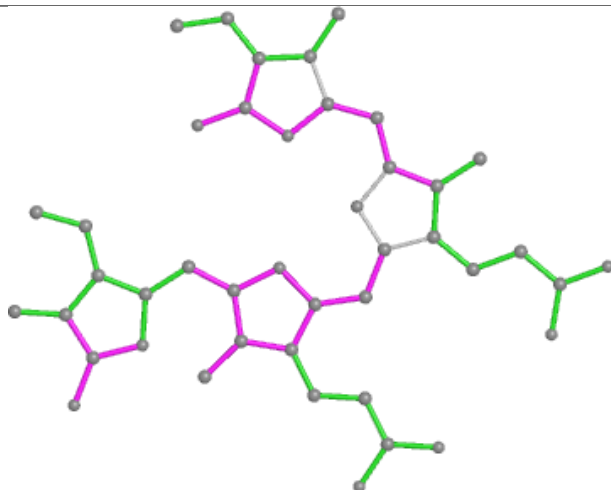




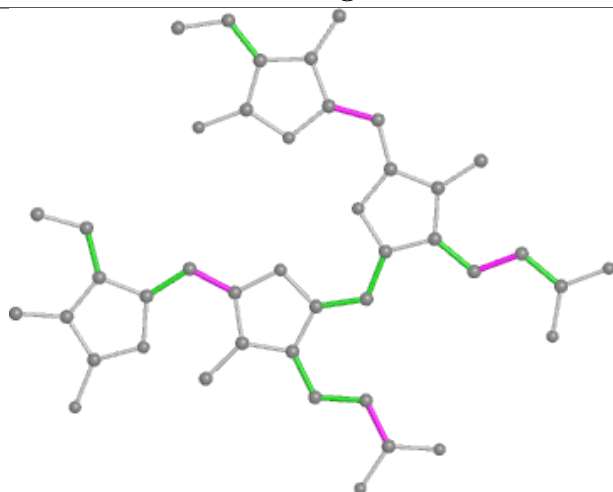
Ligand PEB CC 201



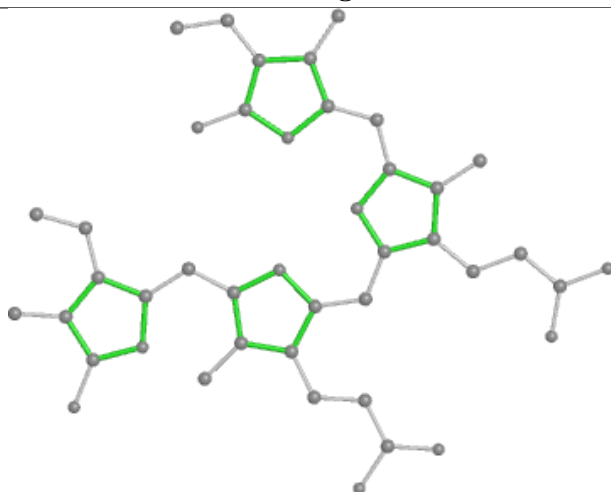
Bond lengths



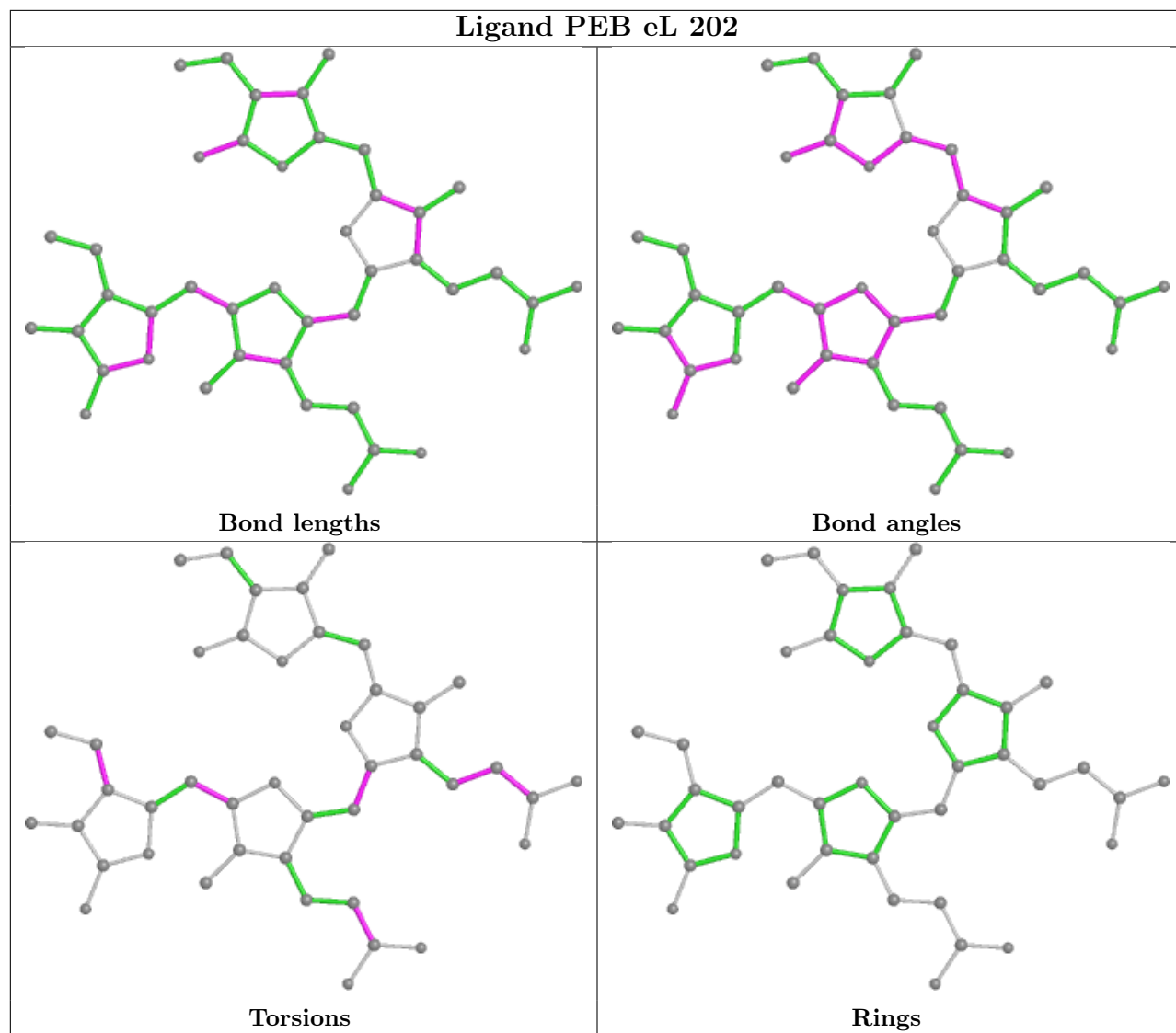
Bond angles



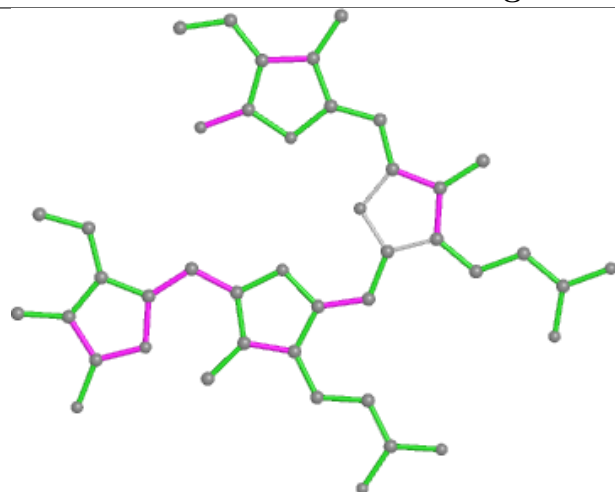
Torsions



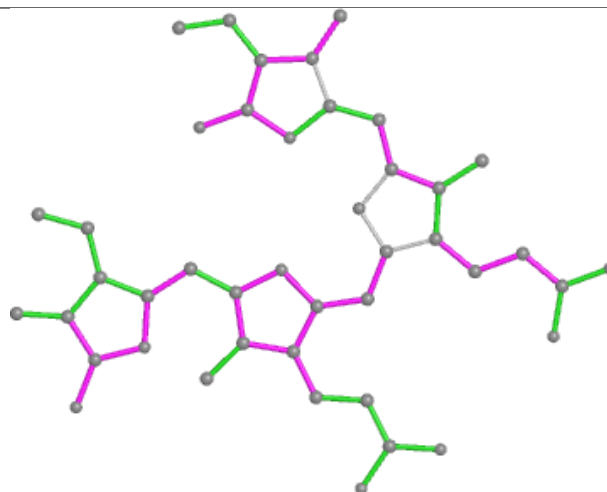
Rings



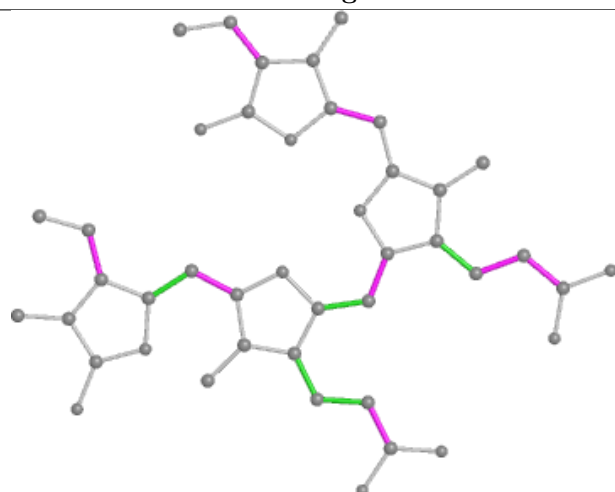
Ligand PEB M4 202



Bond lengths



Bond angles

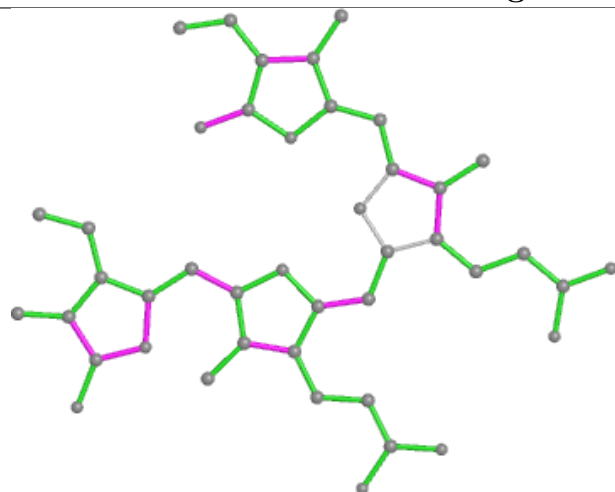


Torsions

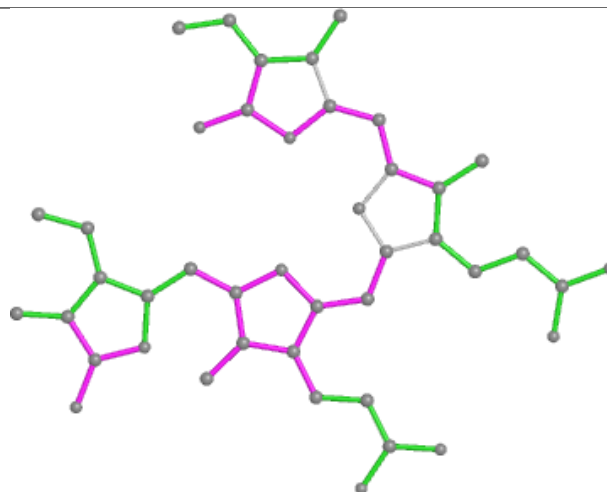


Rings

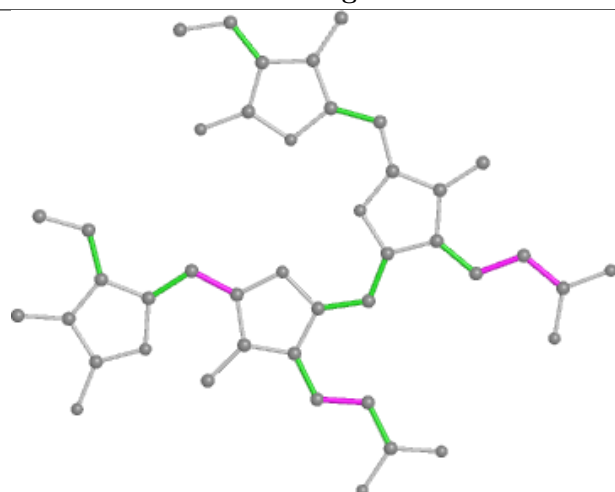
Ligand PEB eK 202



Bond lengths



Bond angles

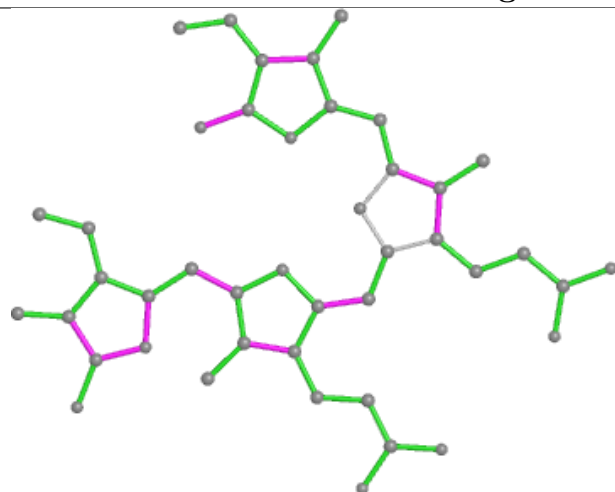


Torsions

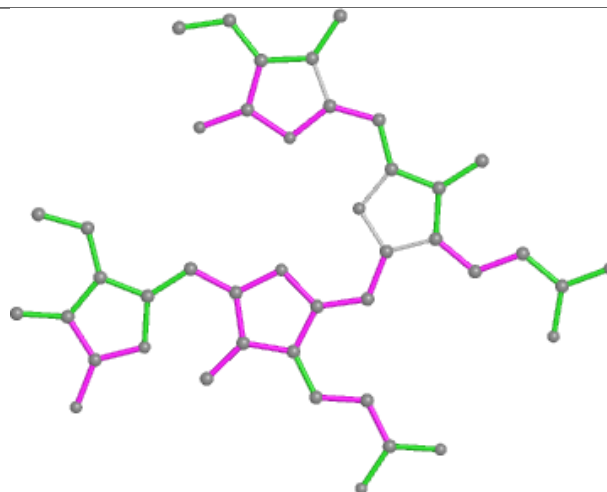


Rings

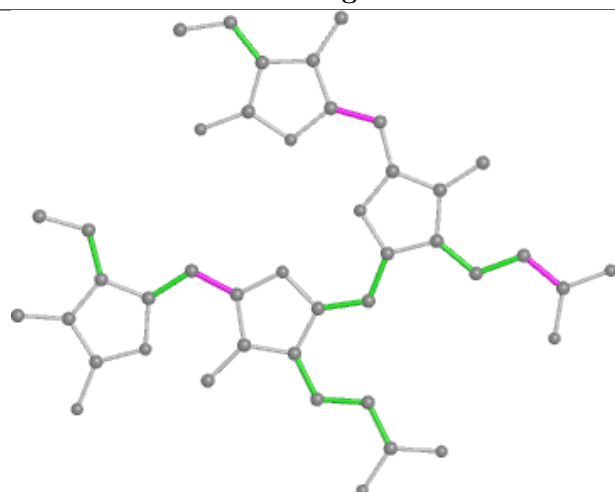
Ligand PEB NM 201



Bond lengths



Bond angles

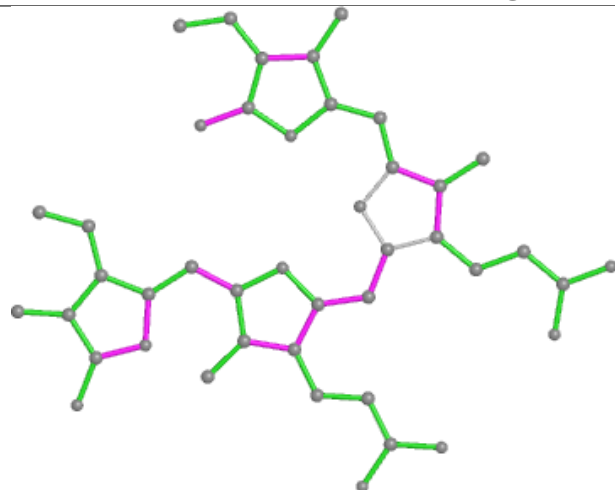


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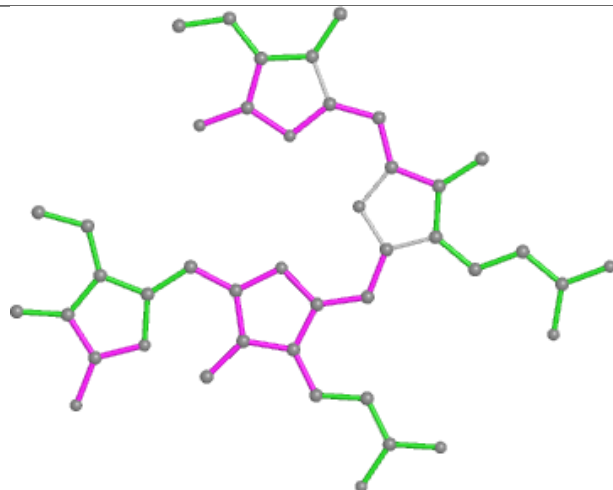


Rings

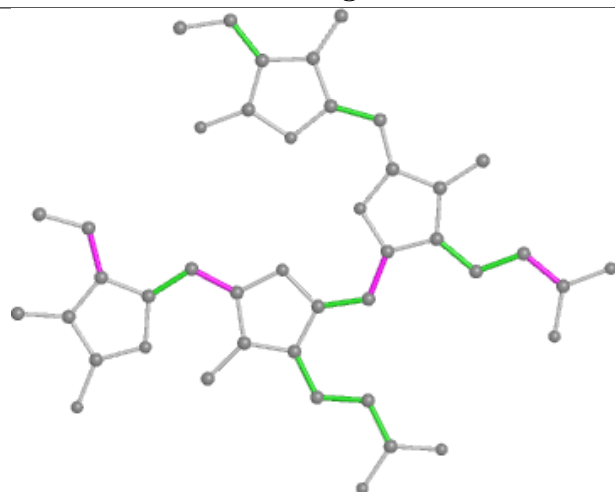
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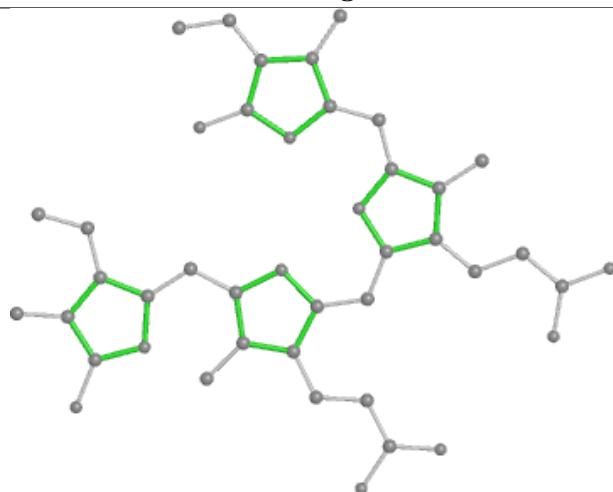
Bond lengths



Bond angles

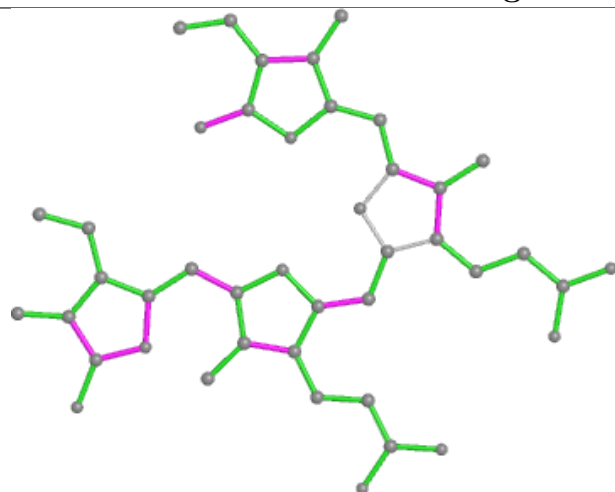


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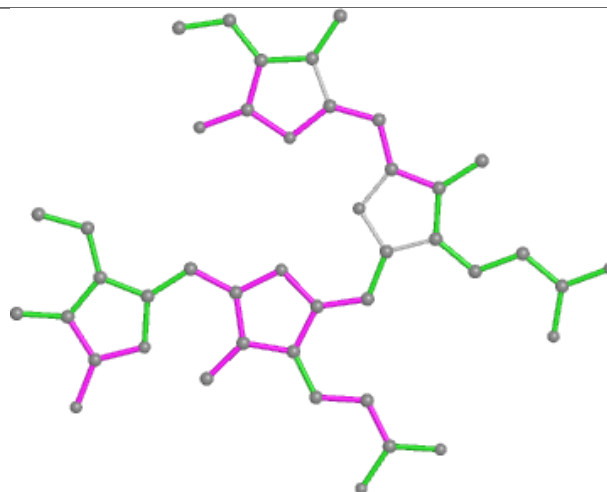


Rings

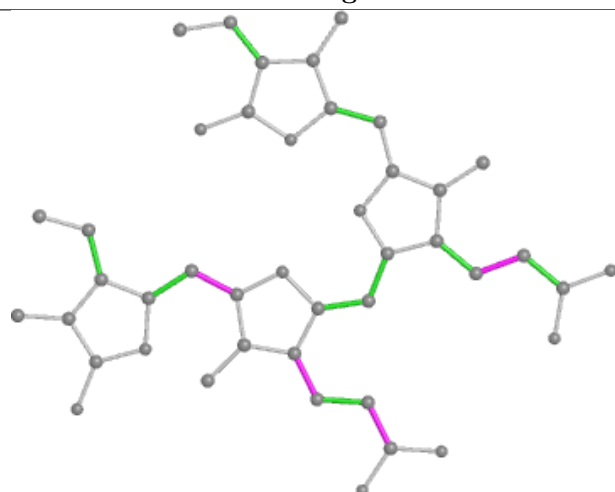
Ligand PEB TK 201



Bond lengths



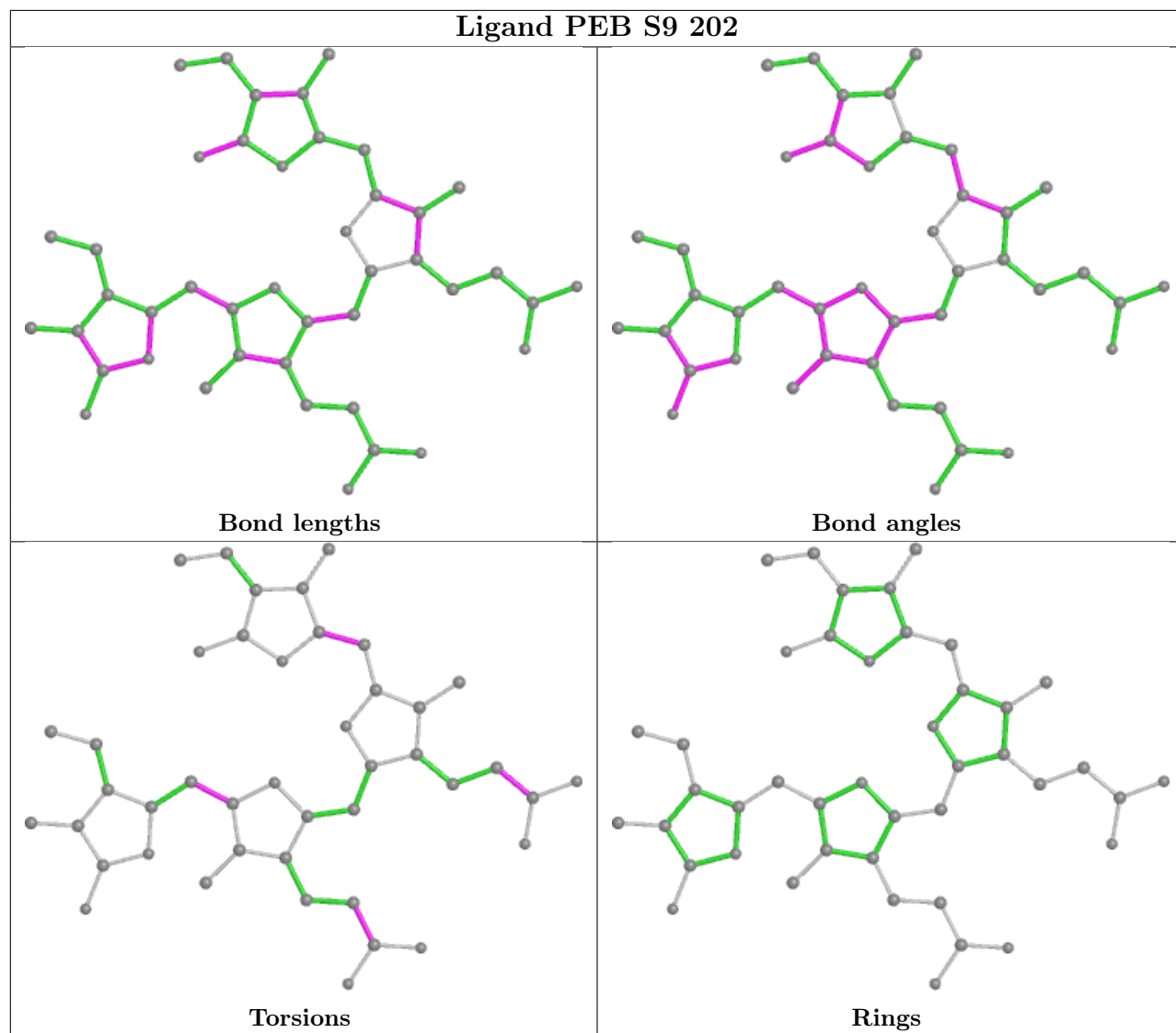
Bond angles



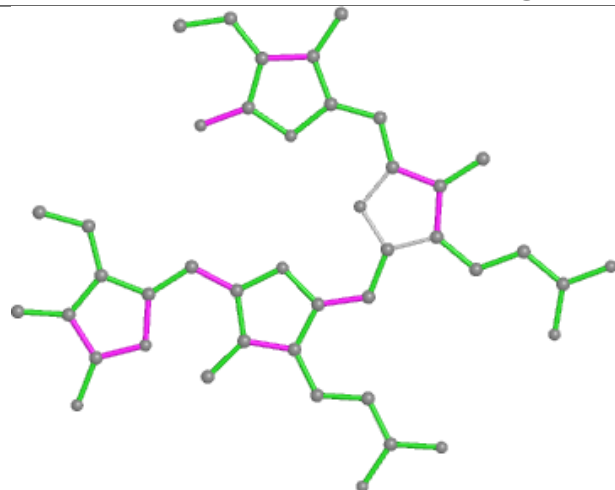
Torsions



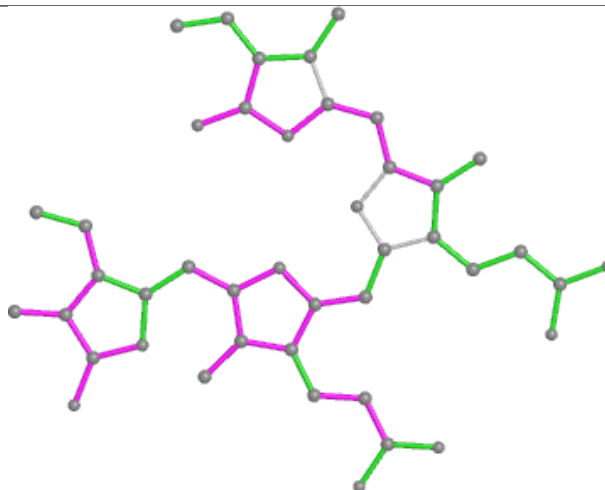
Rings



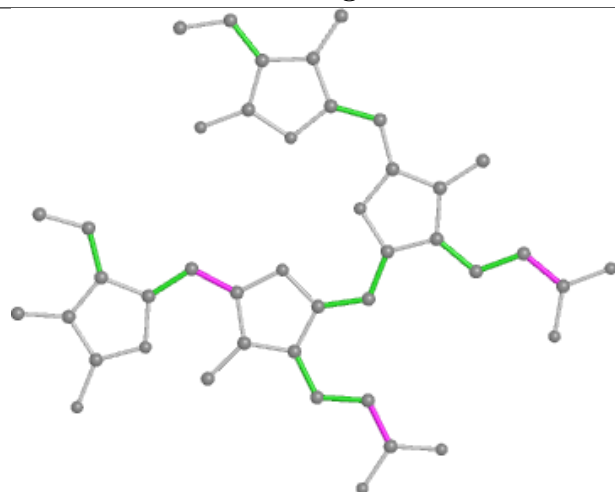
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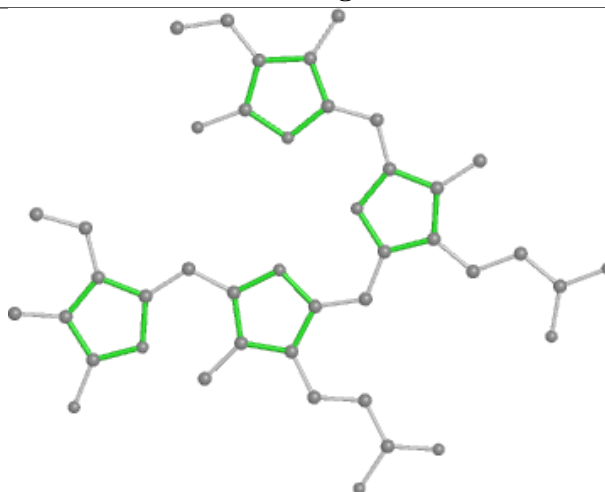
Bond lengths



Bond angles

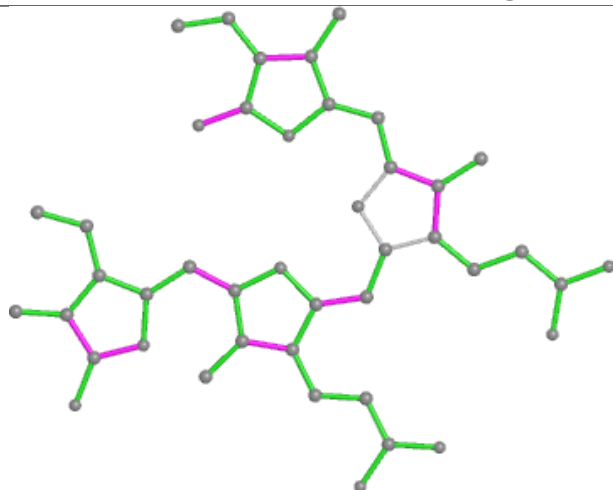


Torsions

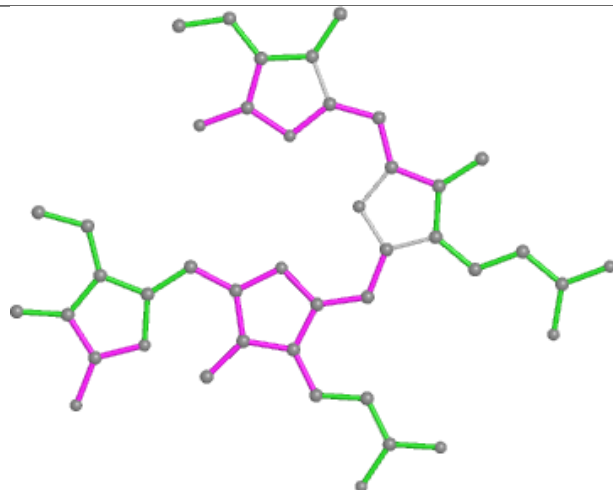


Rings

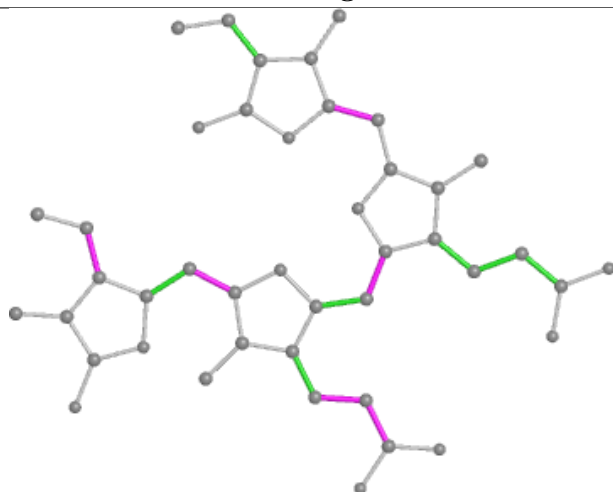
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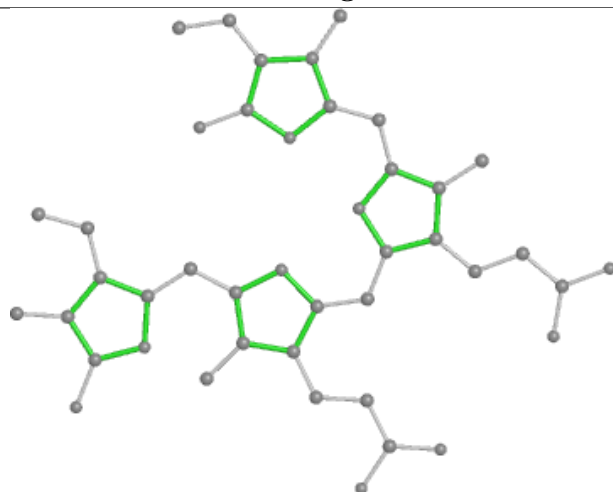
Bond lengths



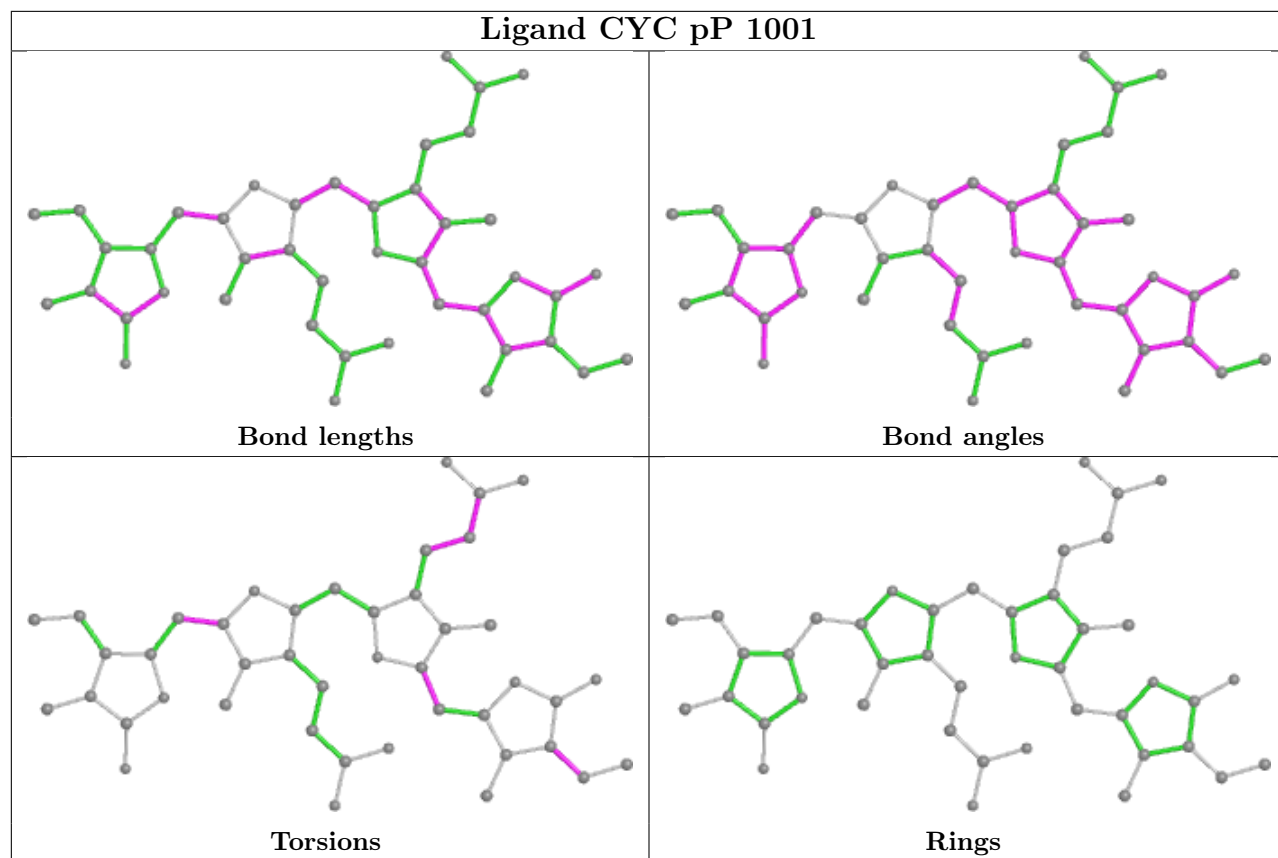
Bond angles

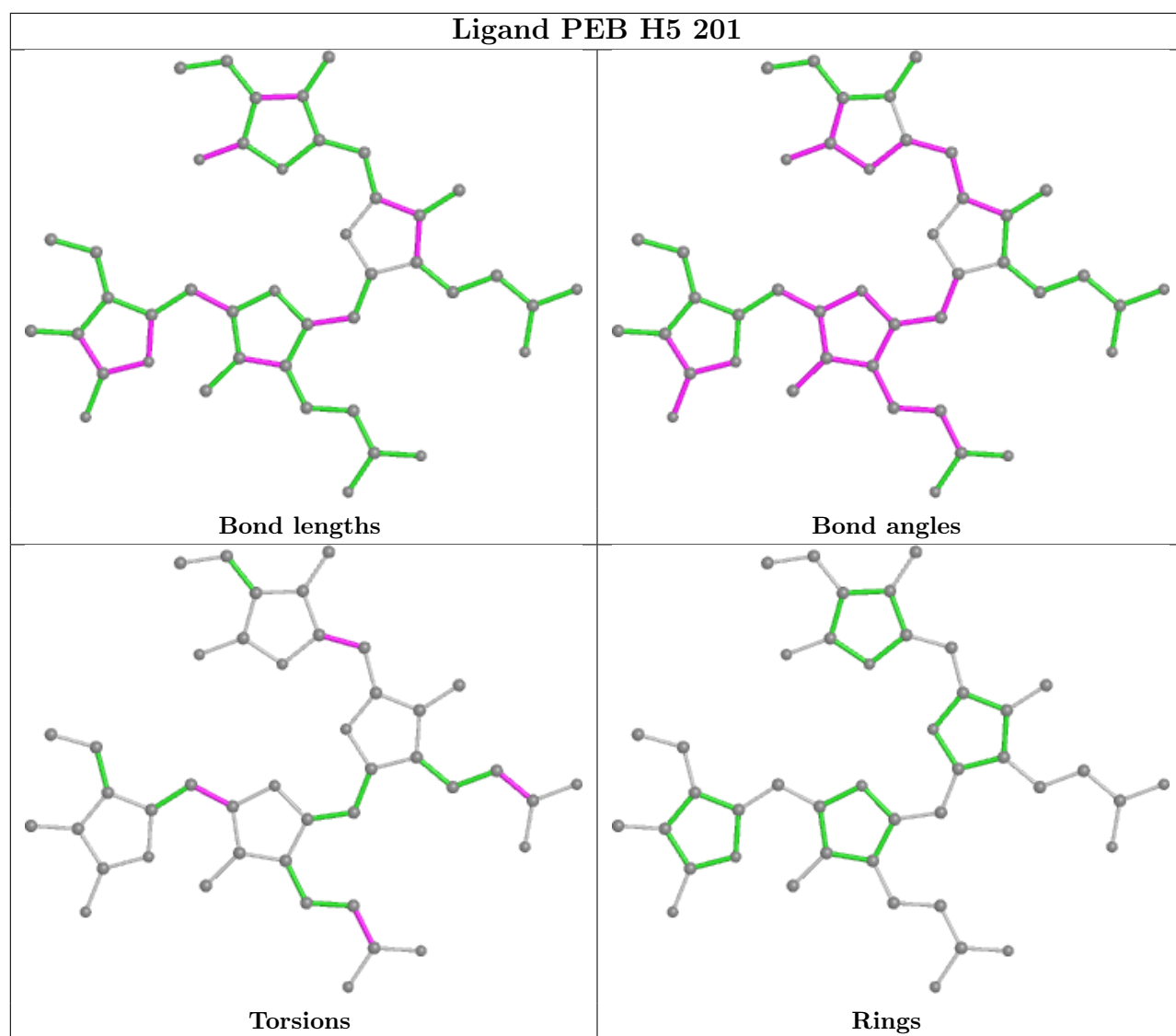


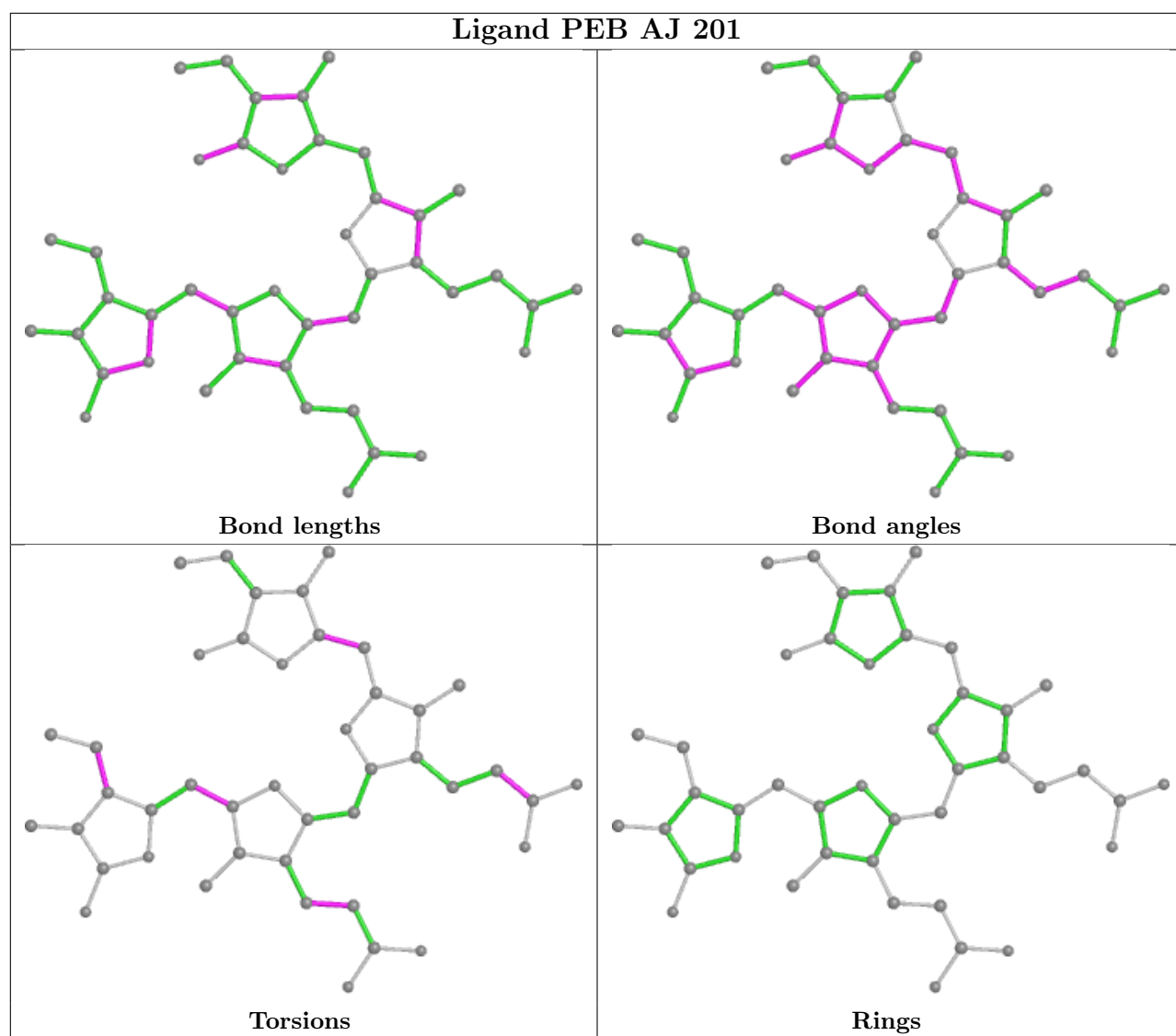
Torsions



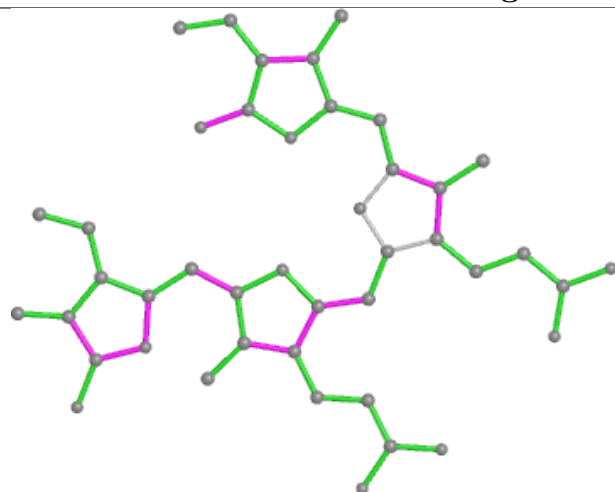
Rings



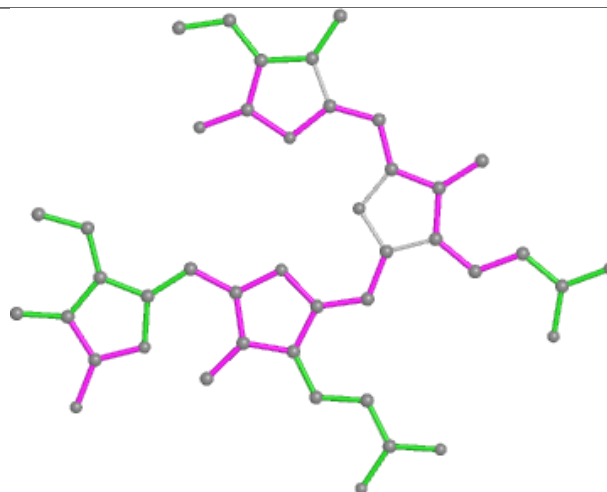




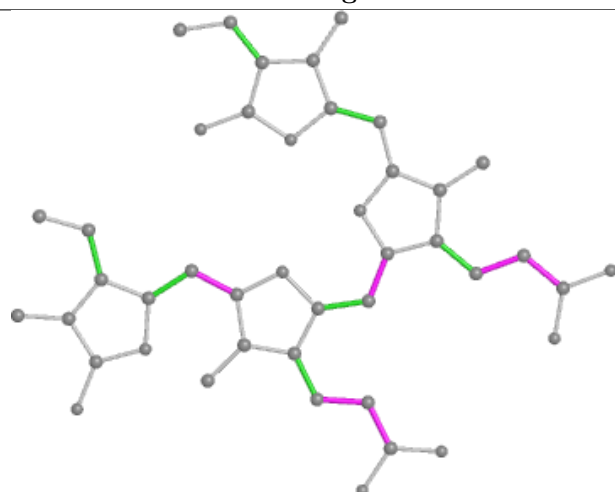
Ligand PEB EM 202



Bond lengths



Bond angles

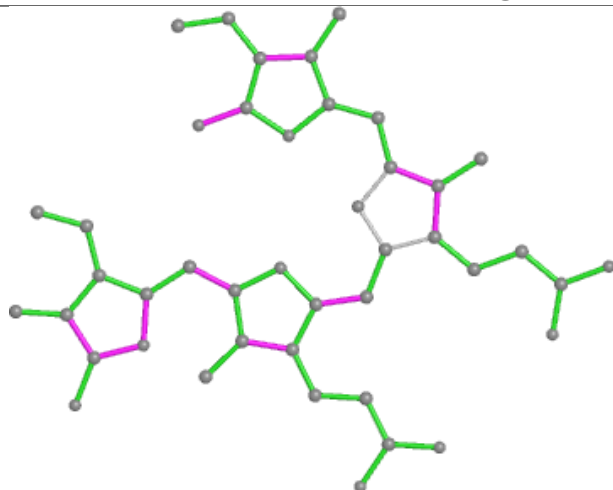


Torsions

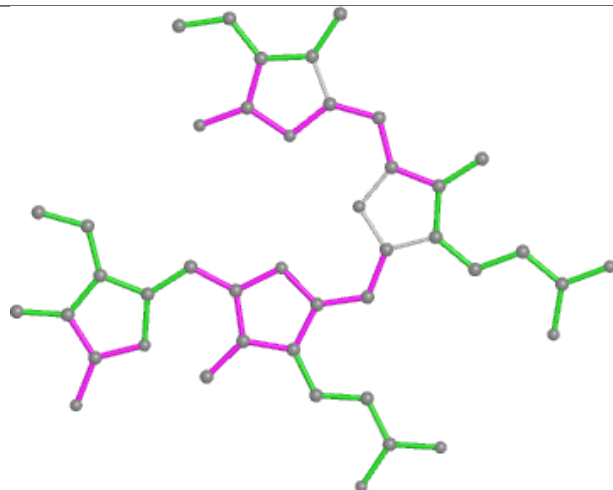


Rings

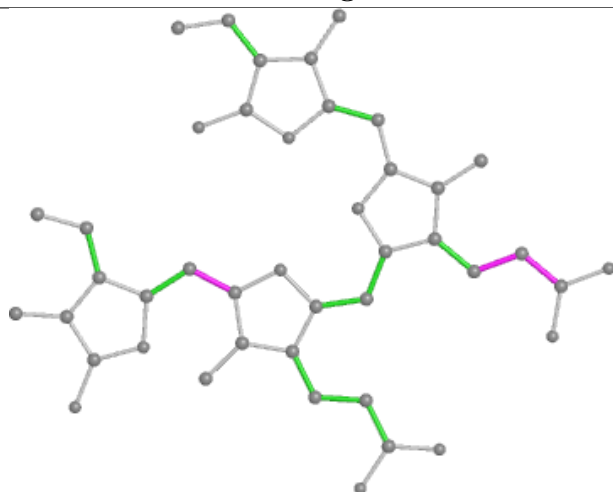
Ligand PEB GM 201



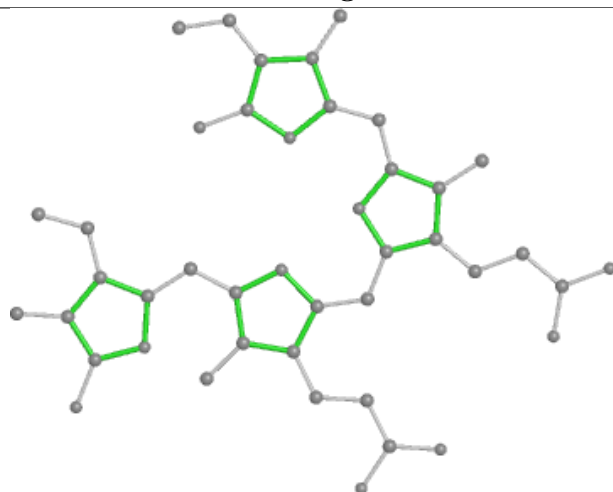
Bond lengths



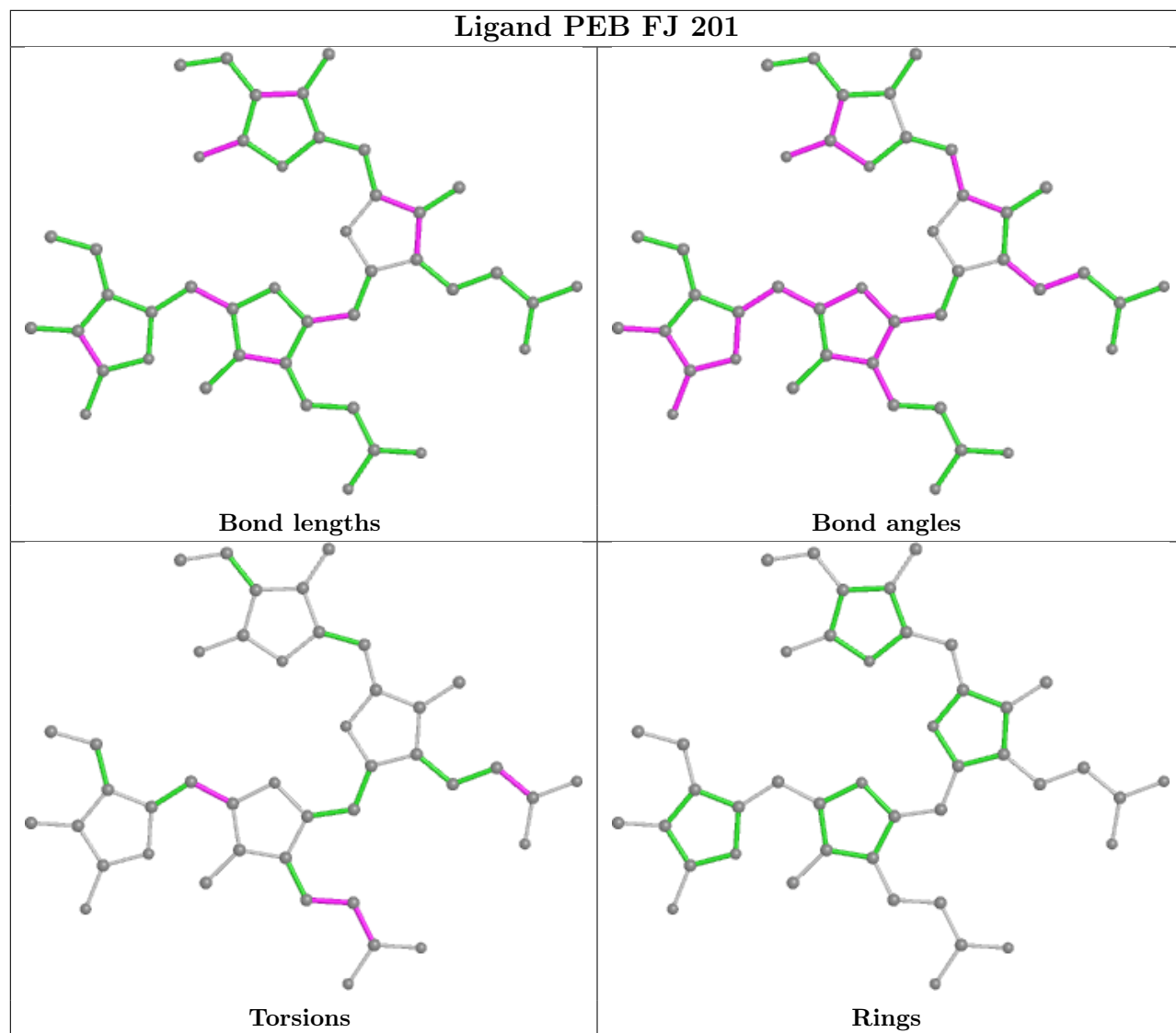
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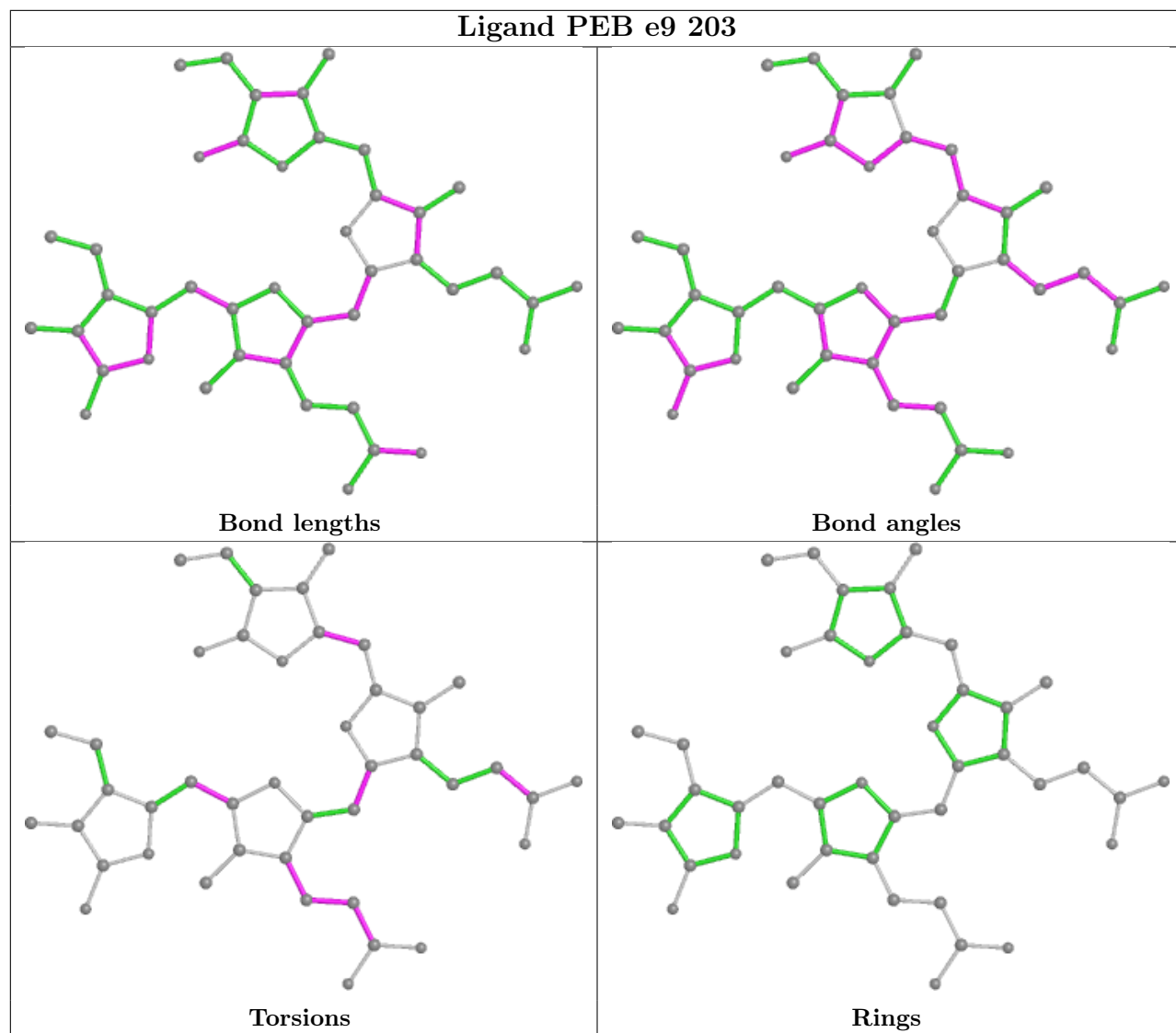


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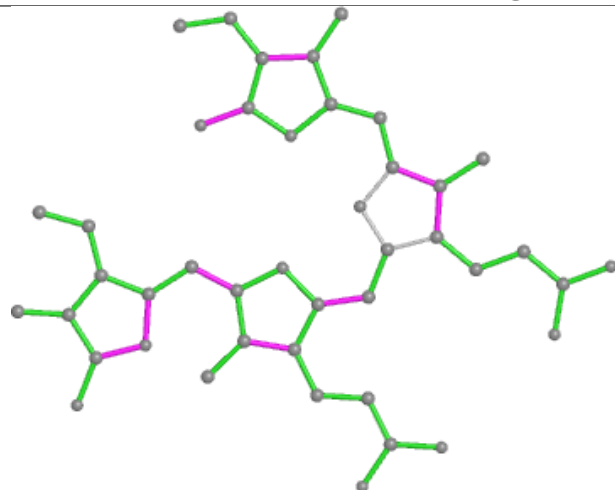


Rings

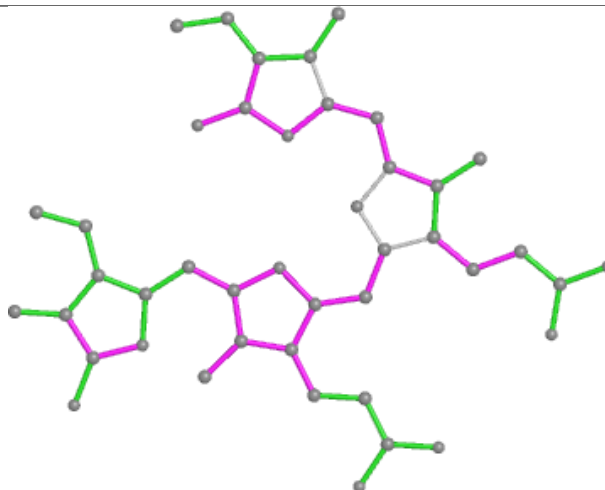




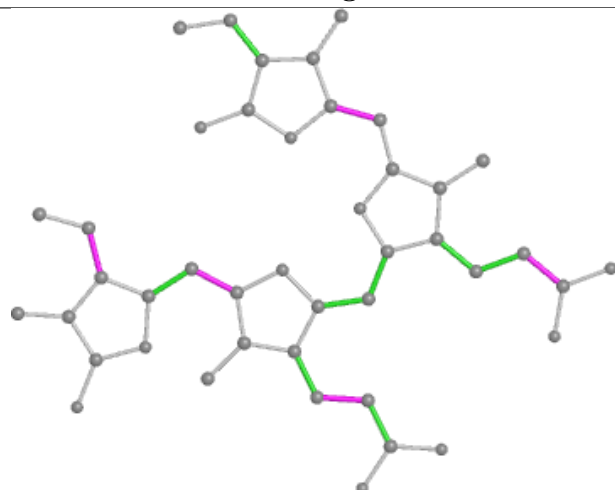
Ligand PEB EL 201



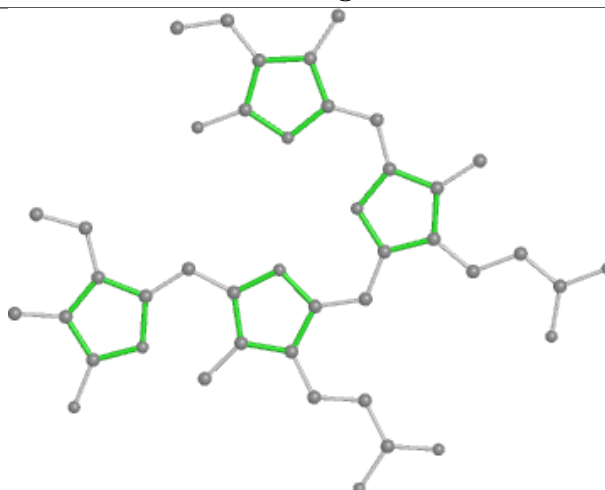
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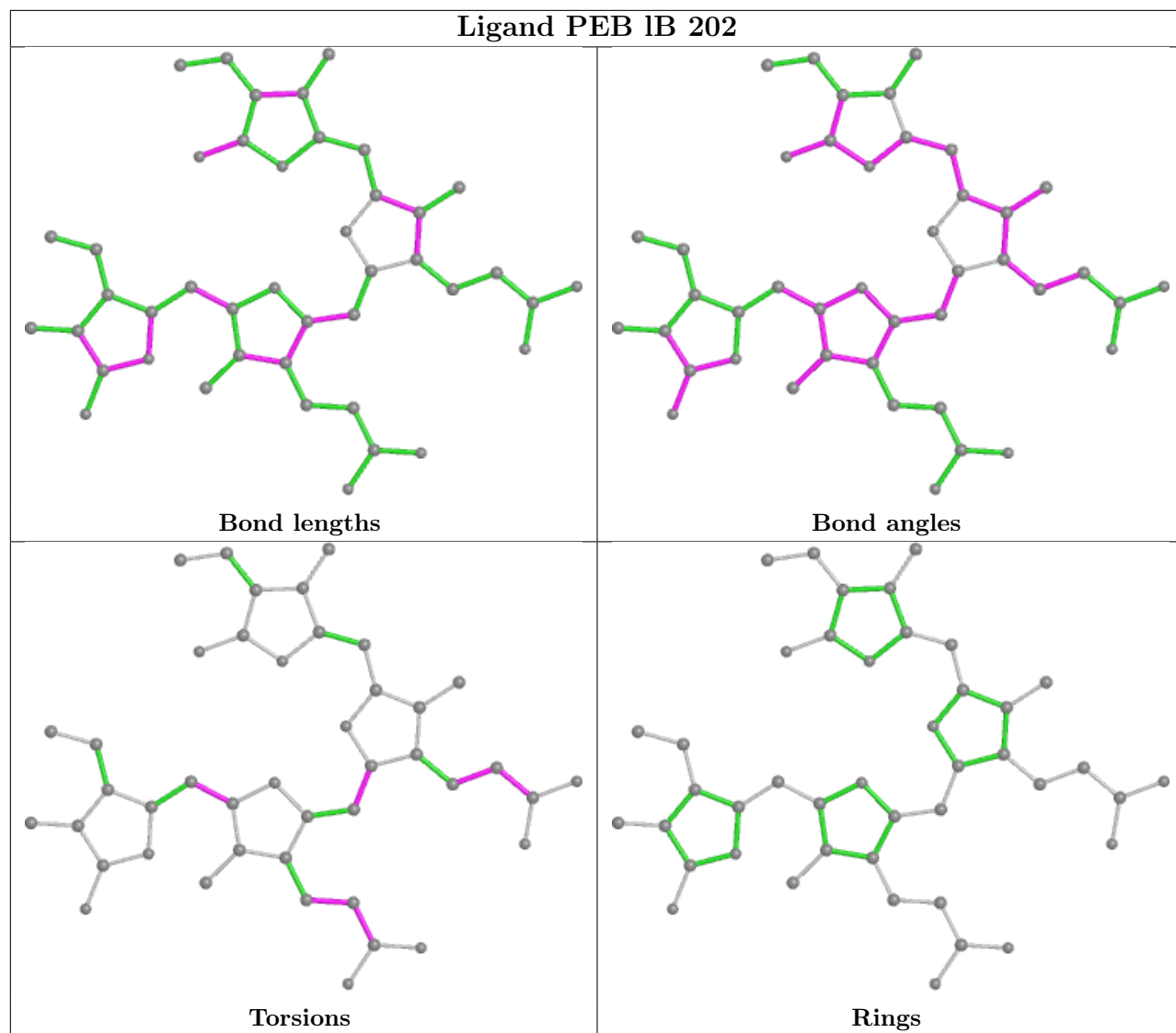
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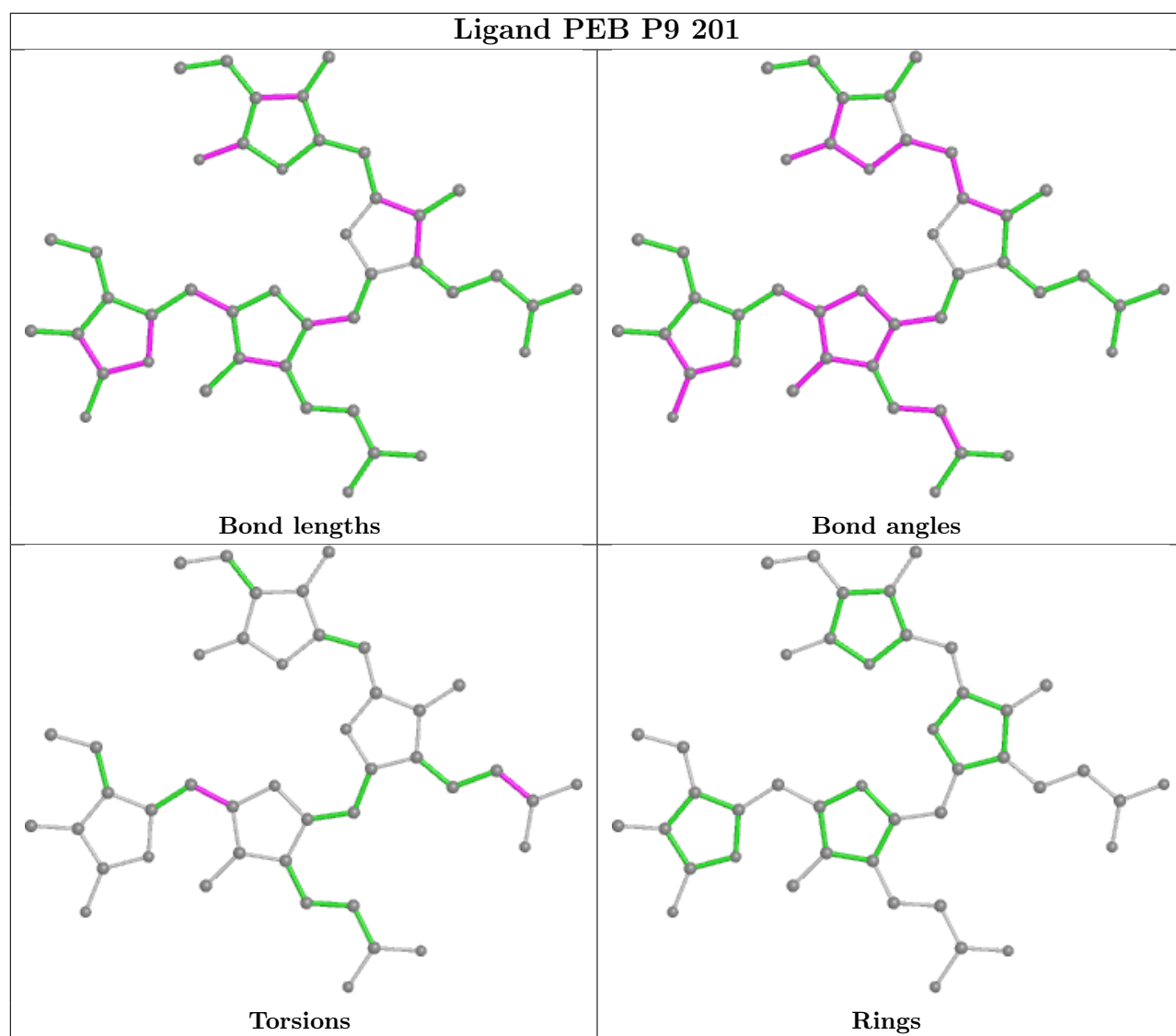


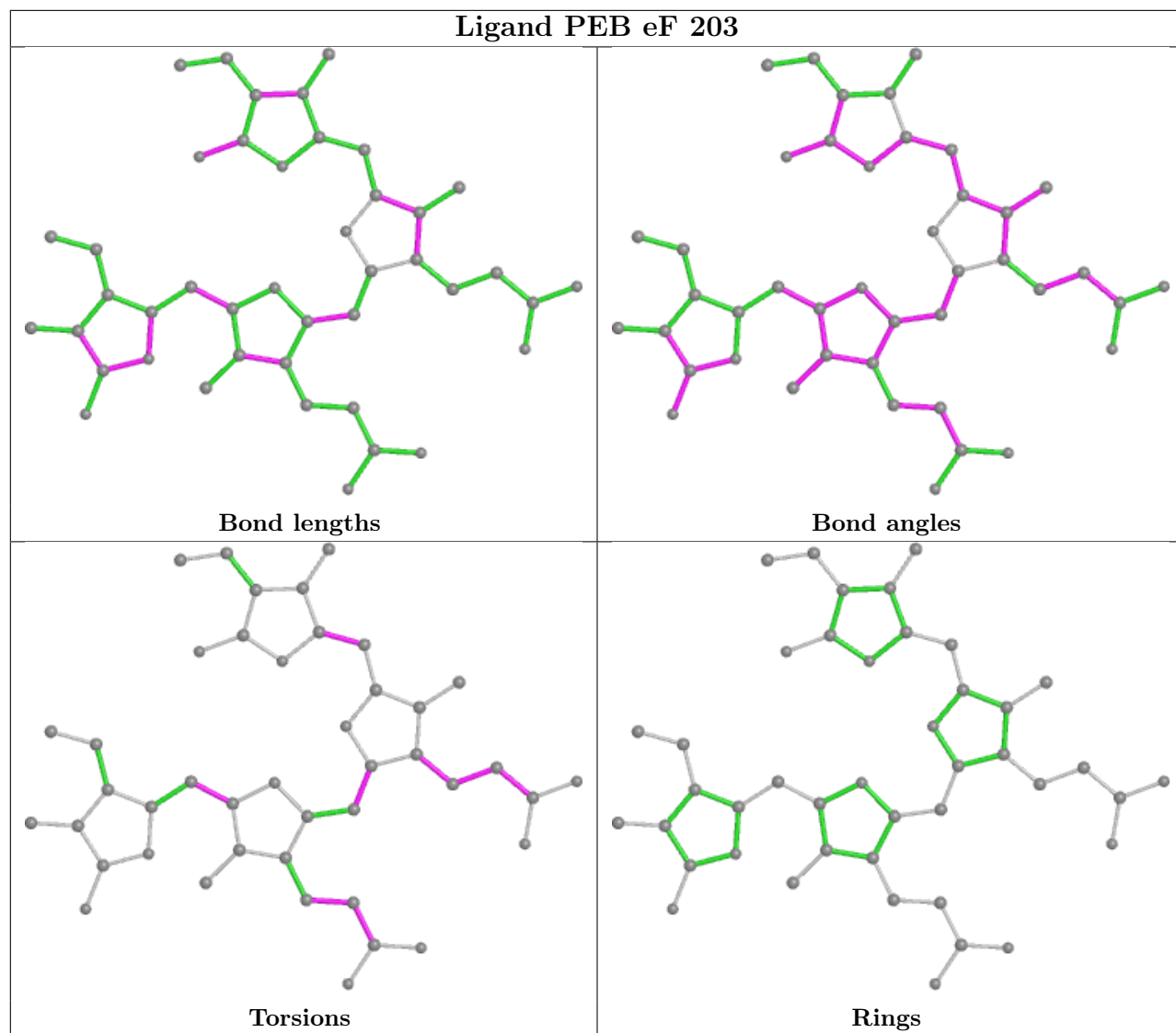
Torsions



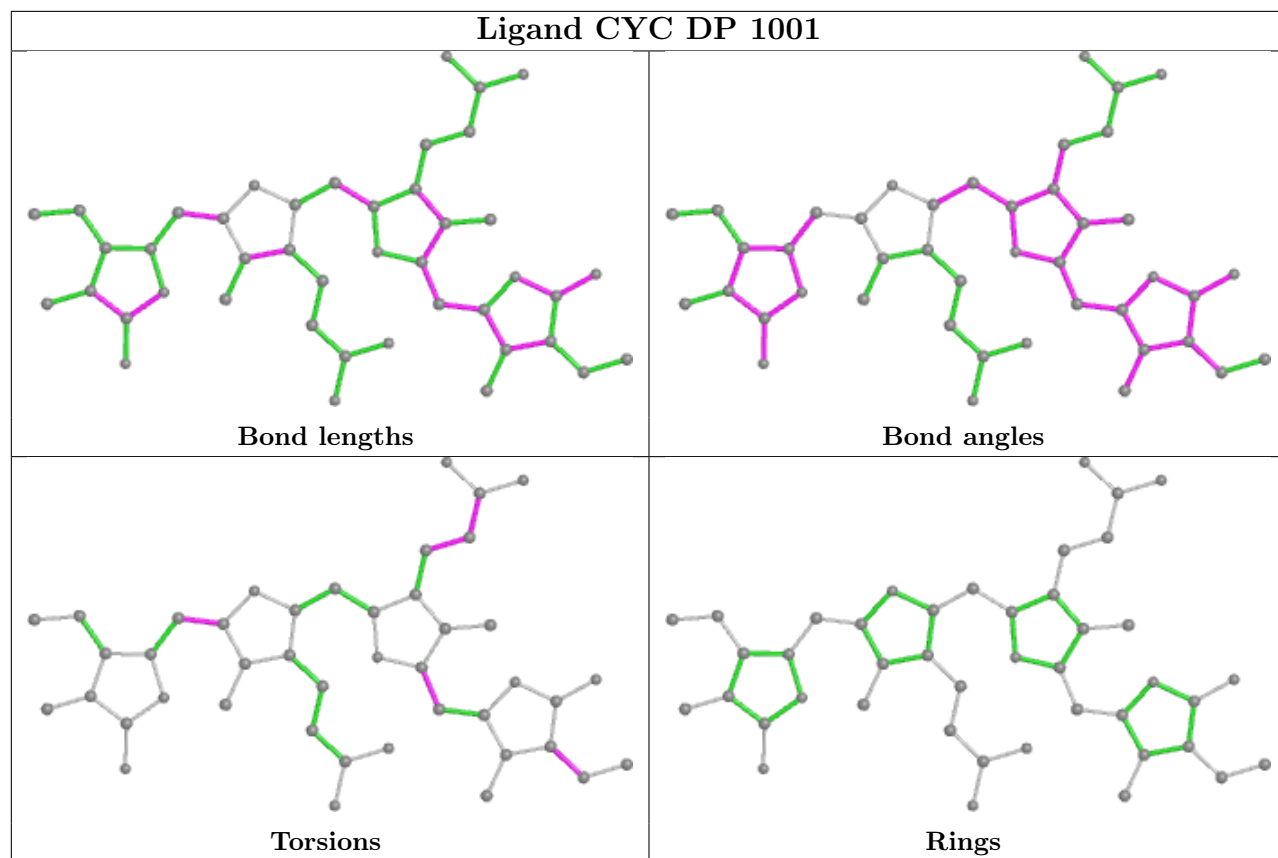
Rings



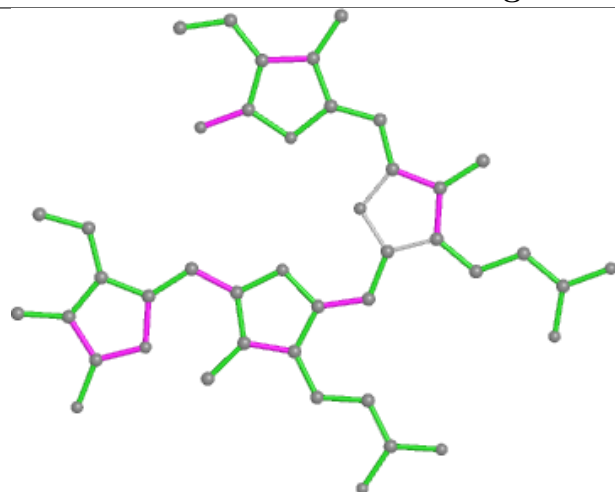




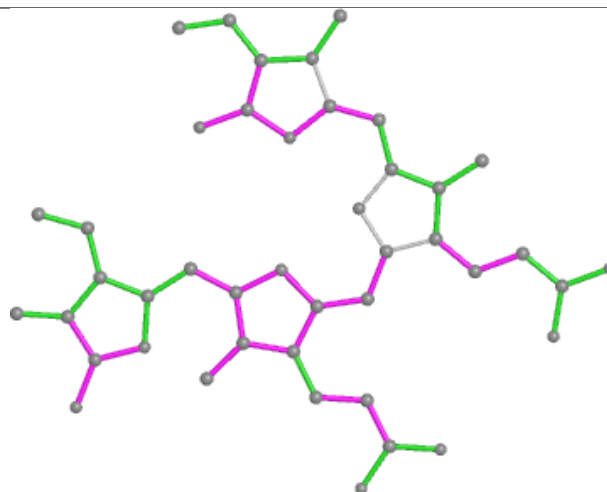
Ligand CYC DP 1001



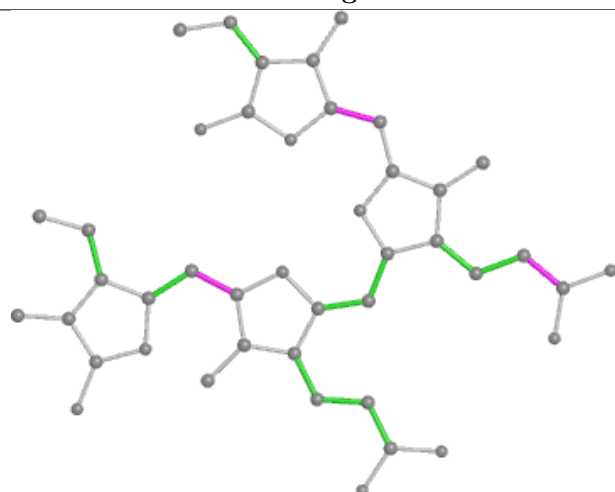
Ligand PEB DB 201



Bond lengths



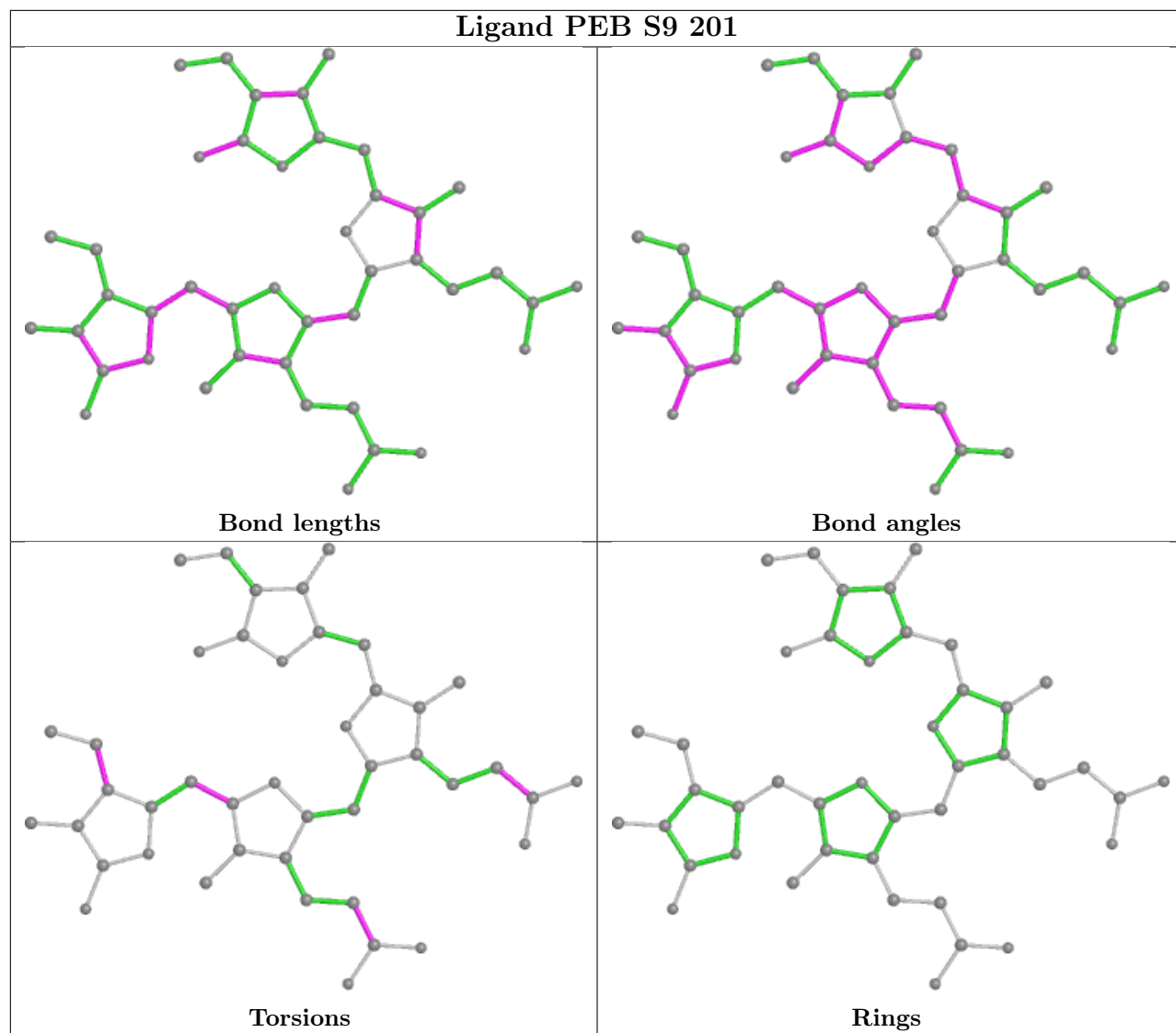
Bond angles



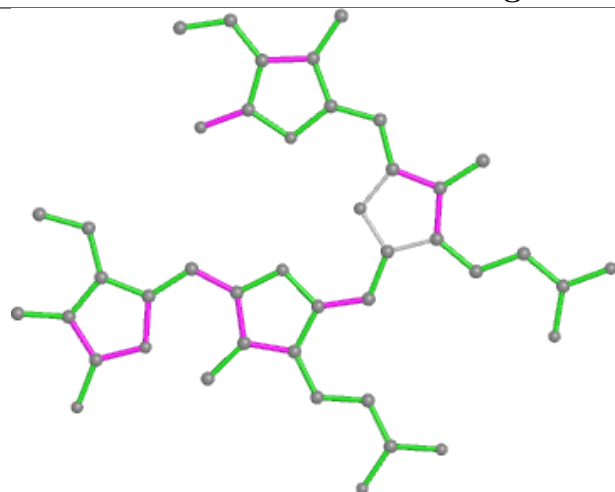
Torsions



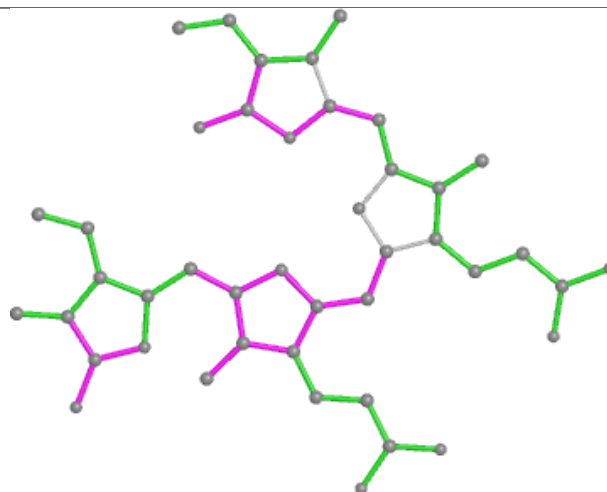
Rings



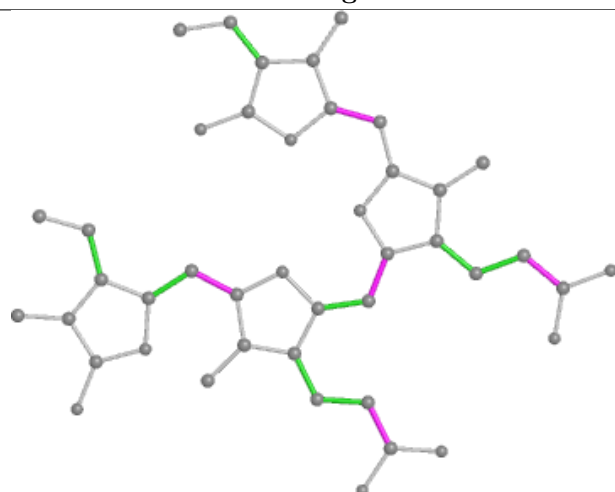
Ligand PEB M3 203



Bond lengths



Bond angles

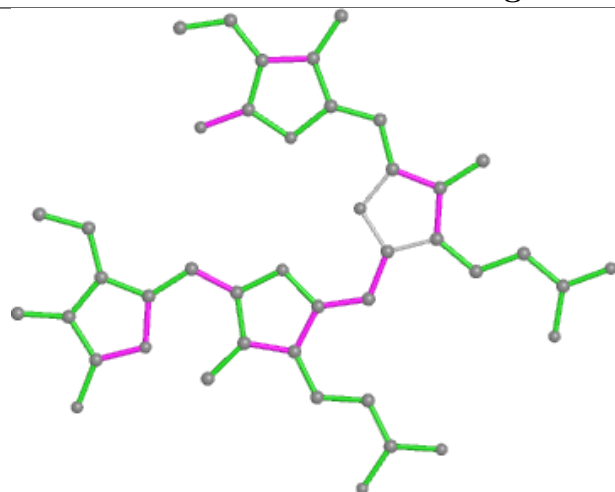


Torsions

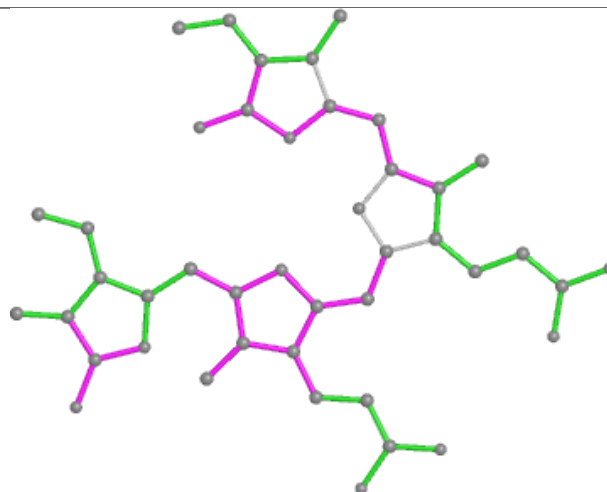


Rings

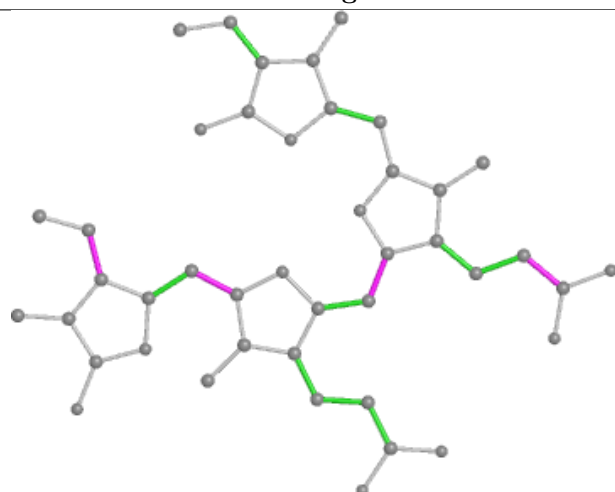
Ligand PEB HE 202



Bond lengths



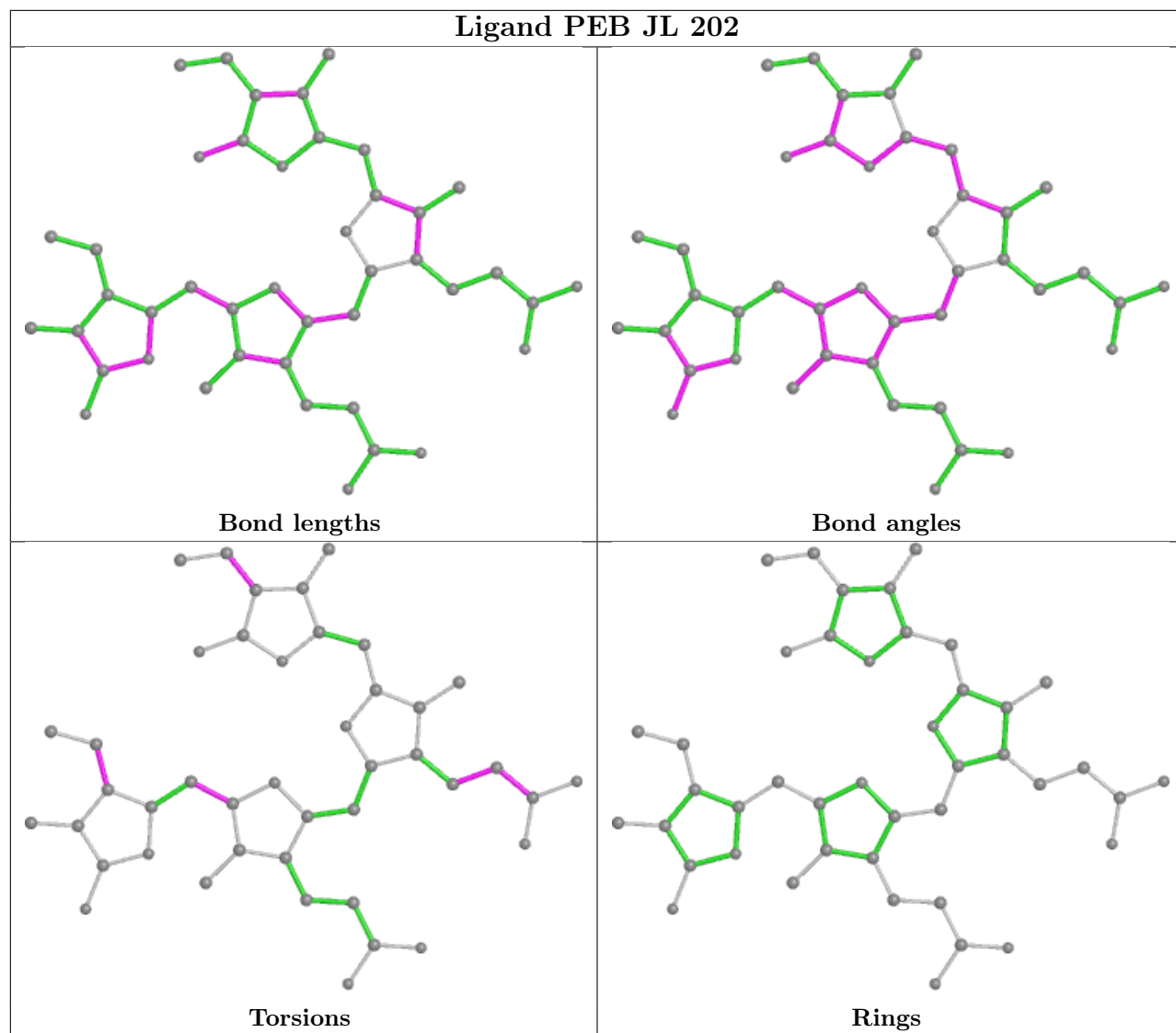
Bond angles



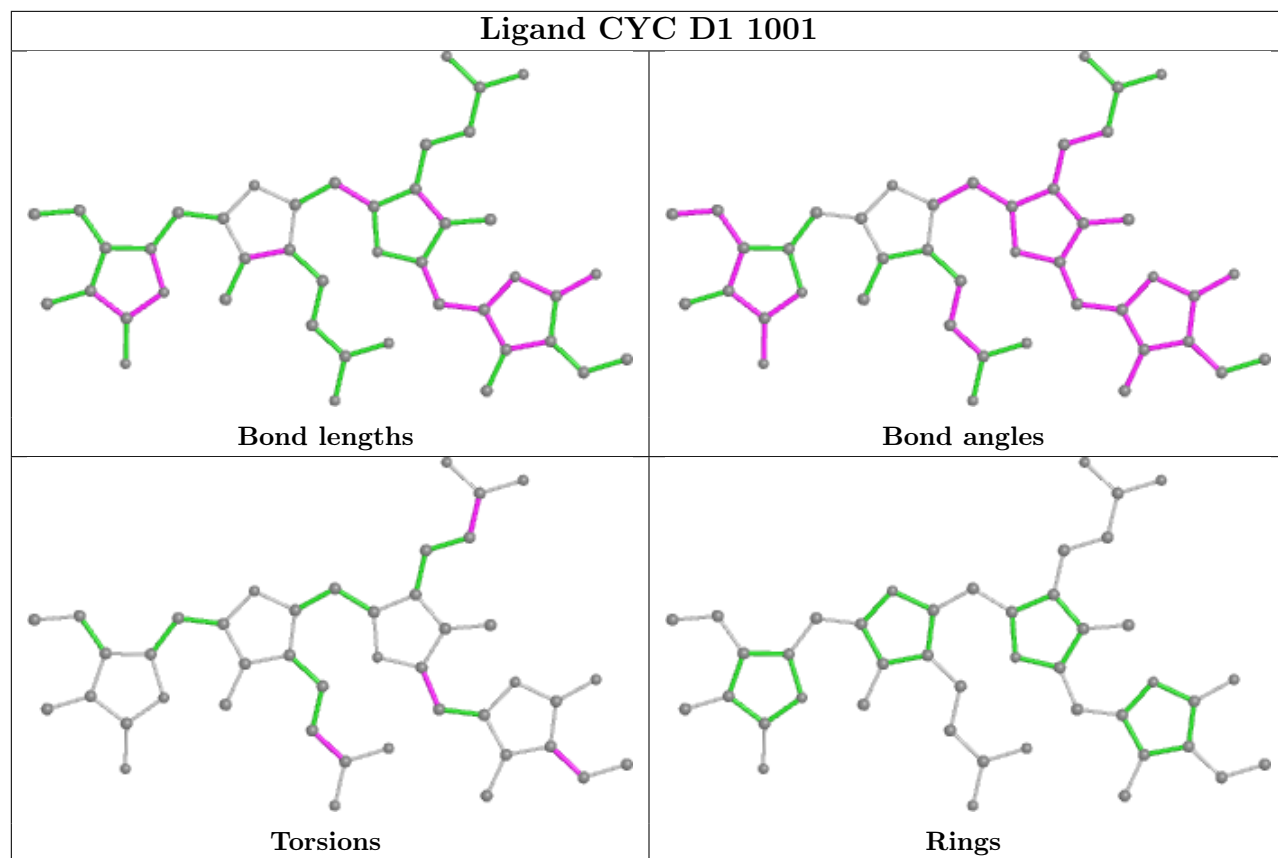
Torsions



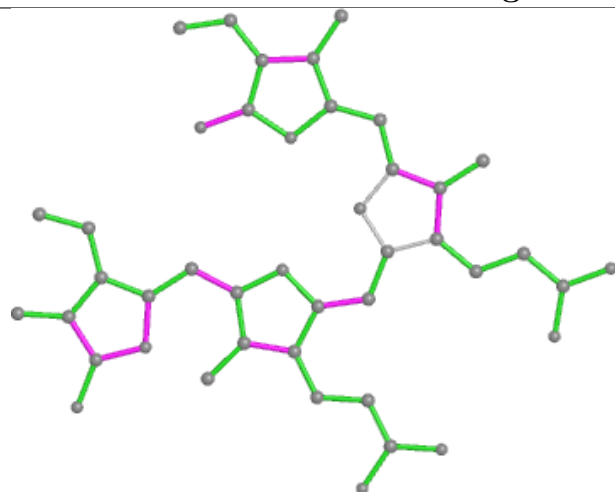
Rings



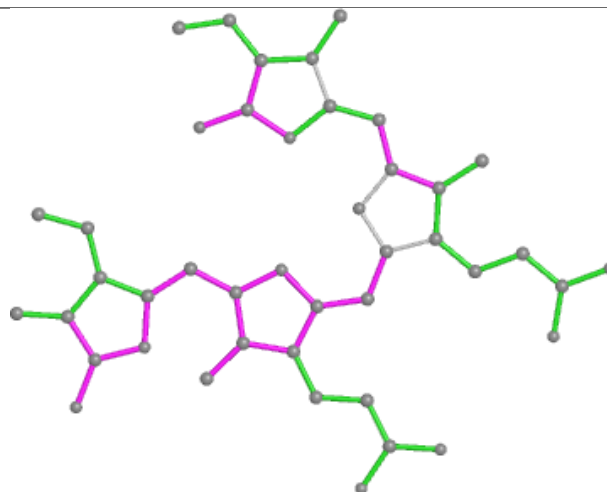
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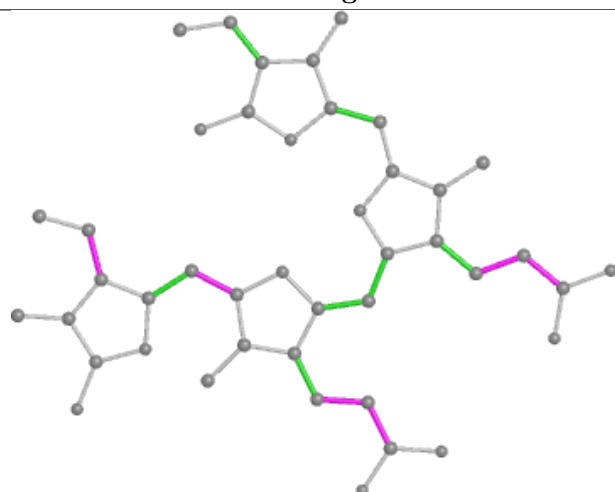
Ligand PEB W1 202



Bond lengths



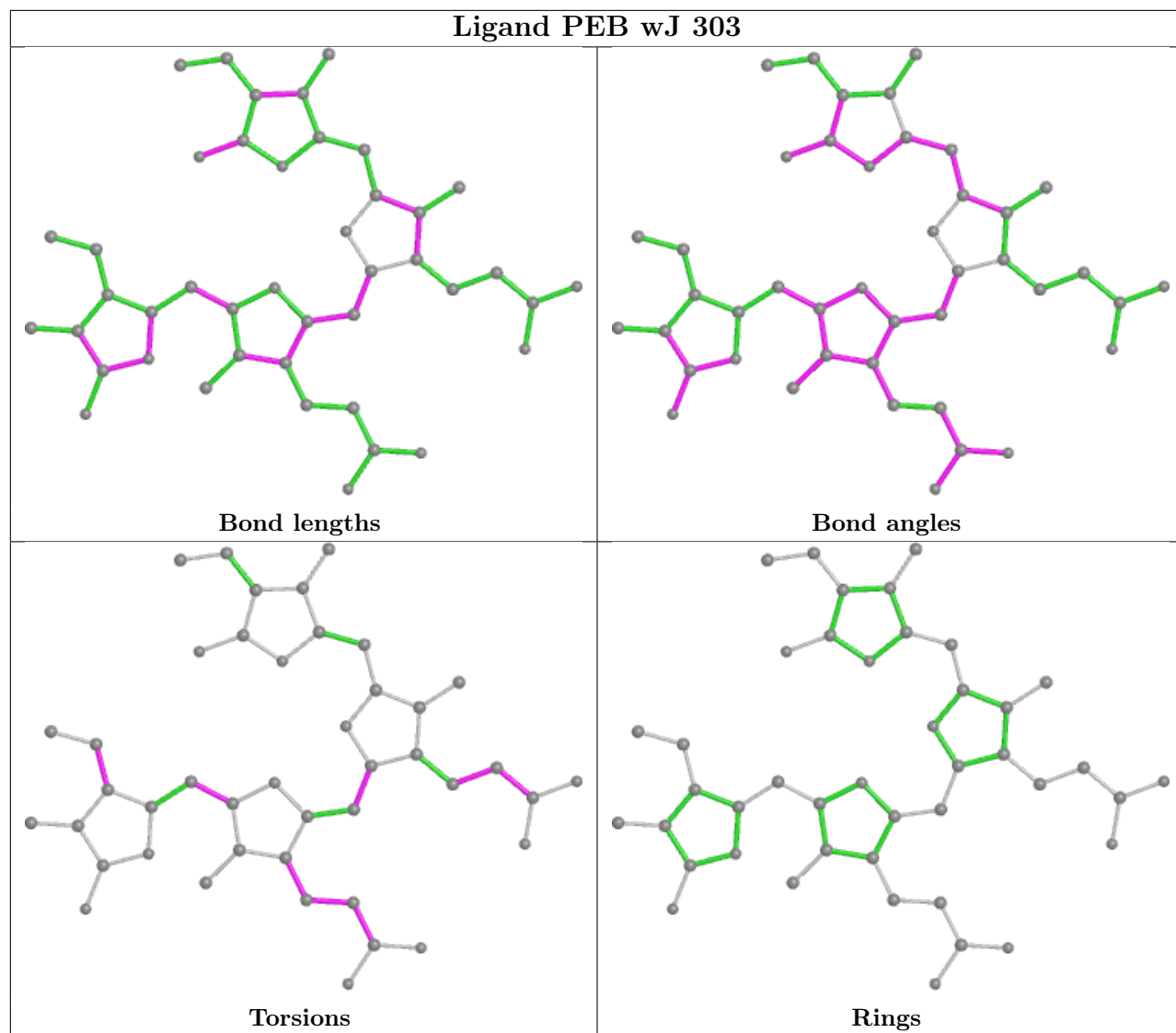
Bond angles

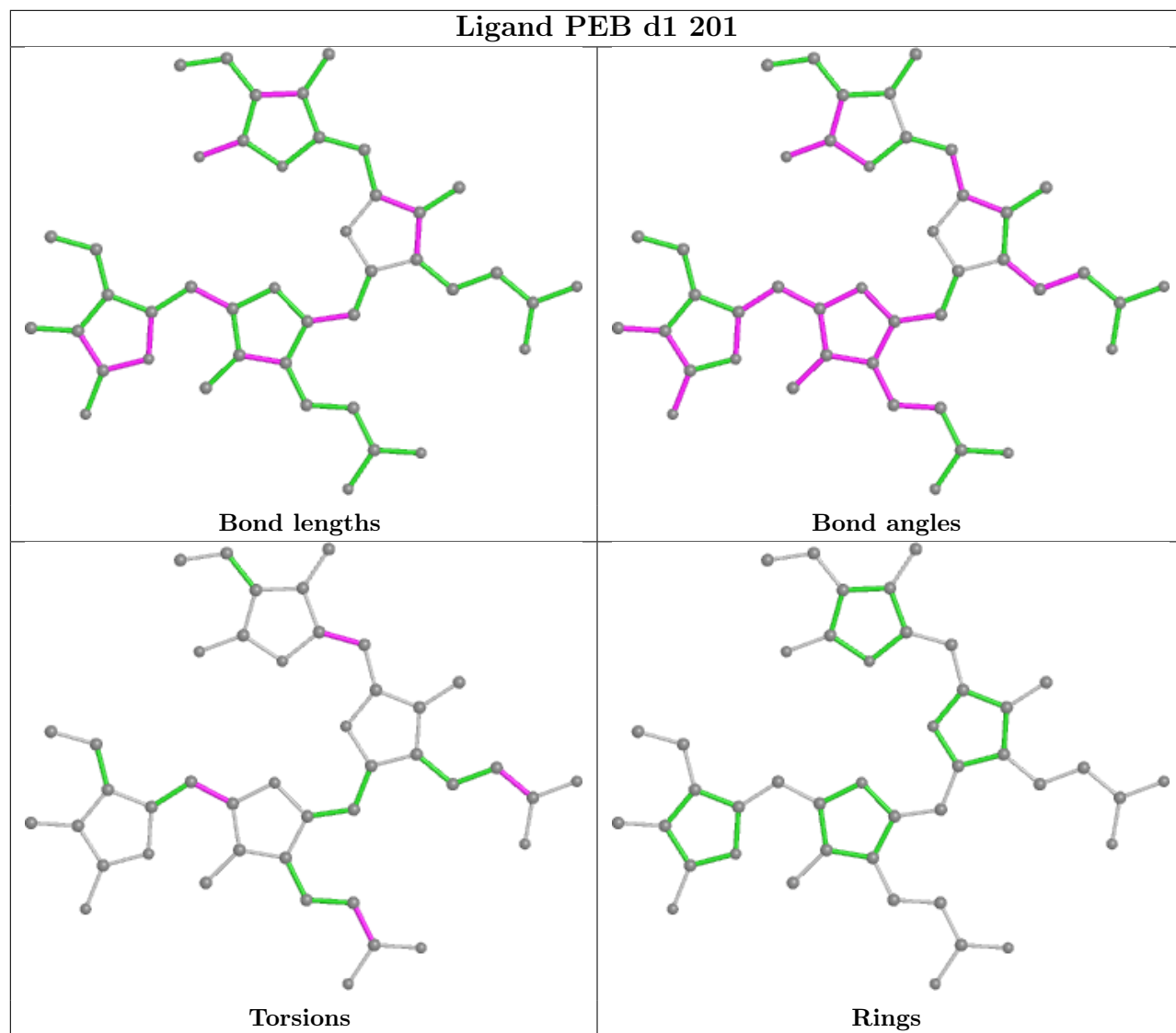


Torsions

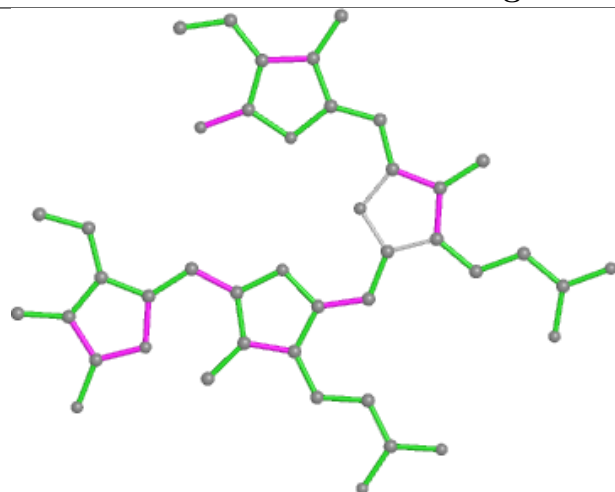


Rings

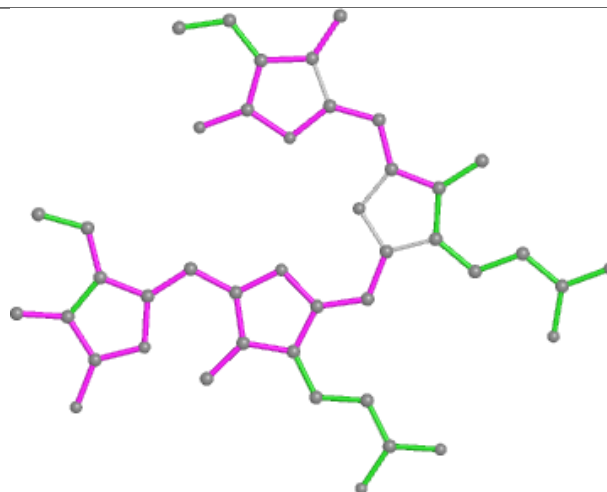




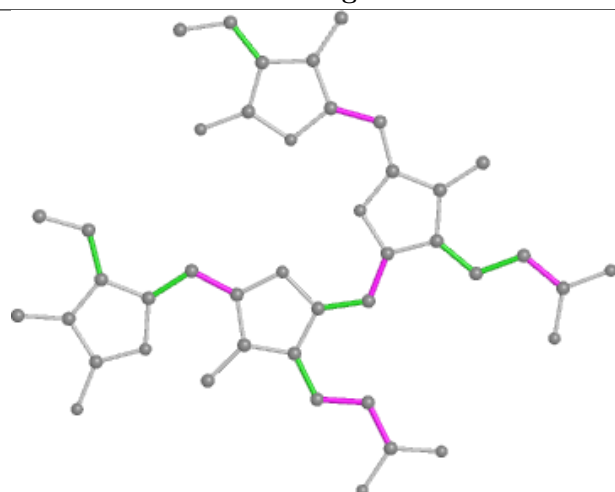
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Bond lengths



Bond angles

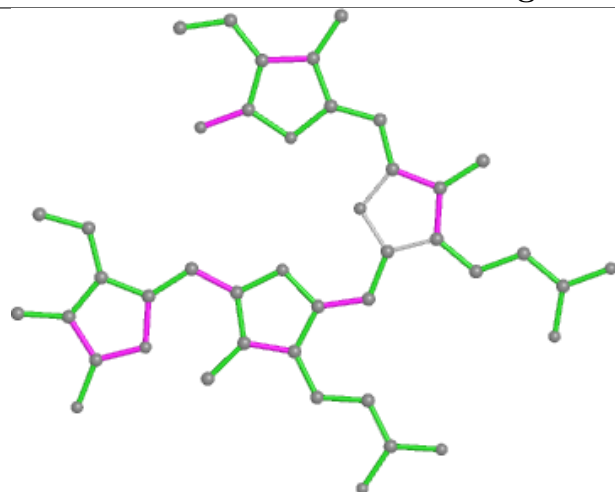


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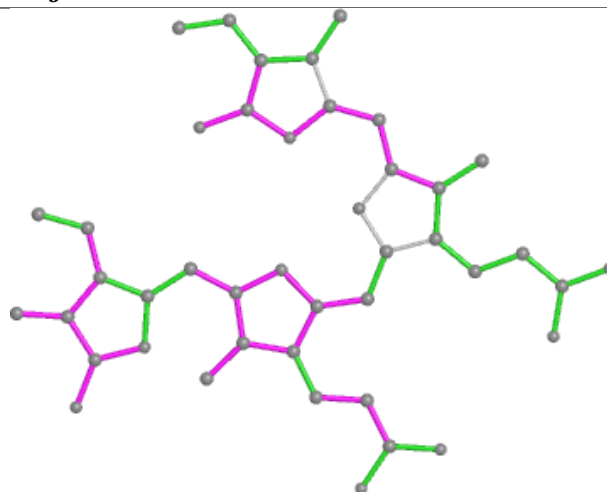


Rings

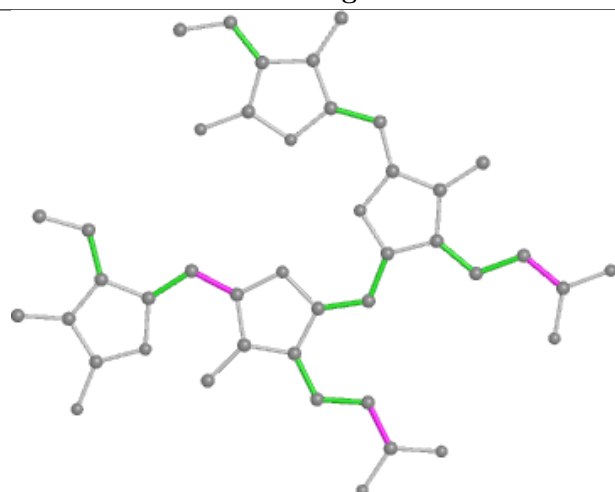
Ligand PEB jI 201



Bond lengths



Bond angles

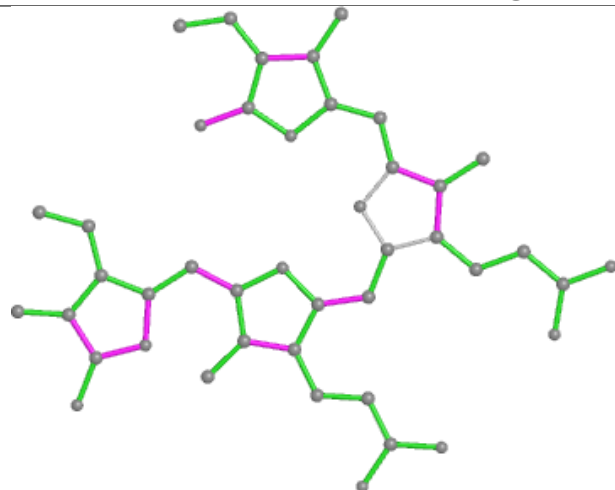


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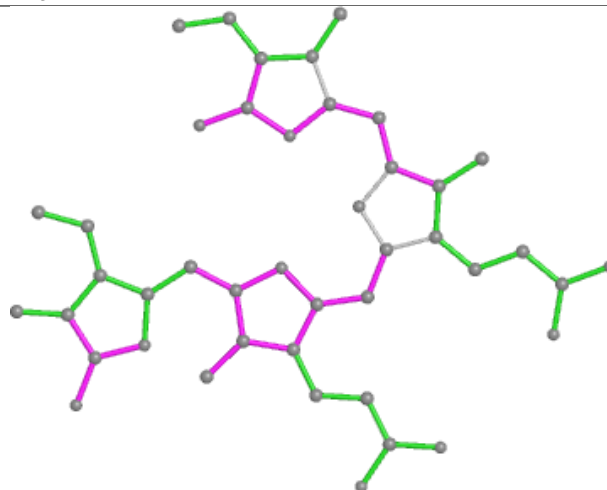


Rings

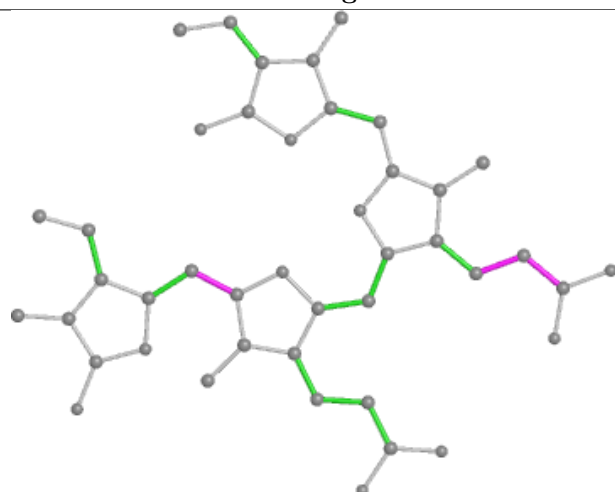
Ligand PEB jM 201



Bond lengths



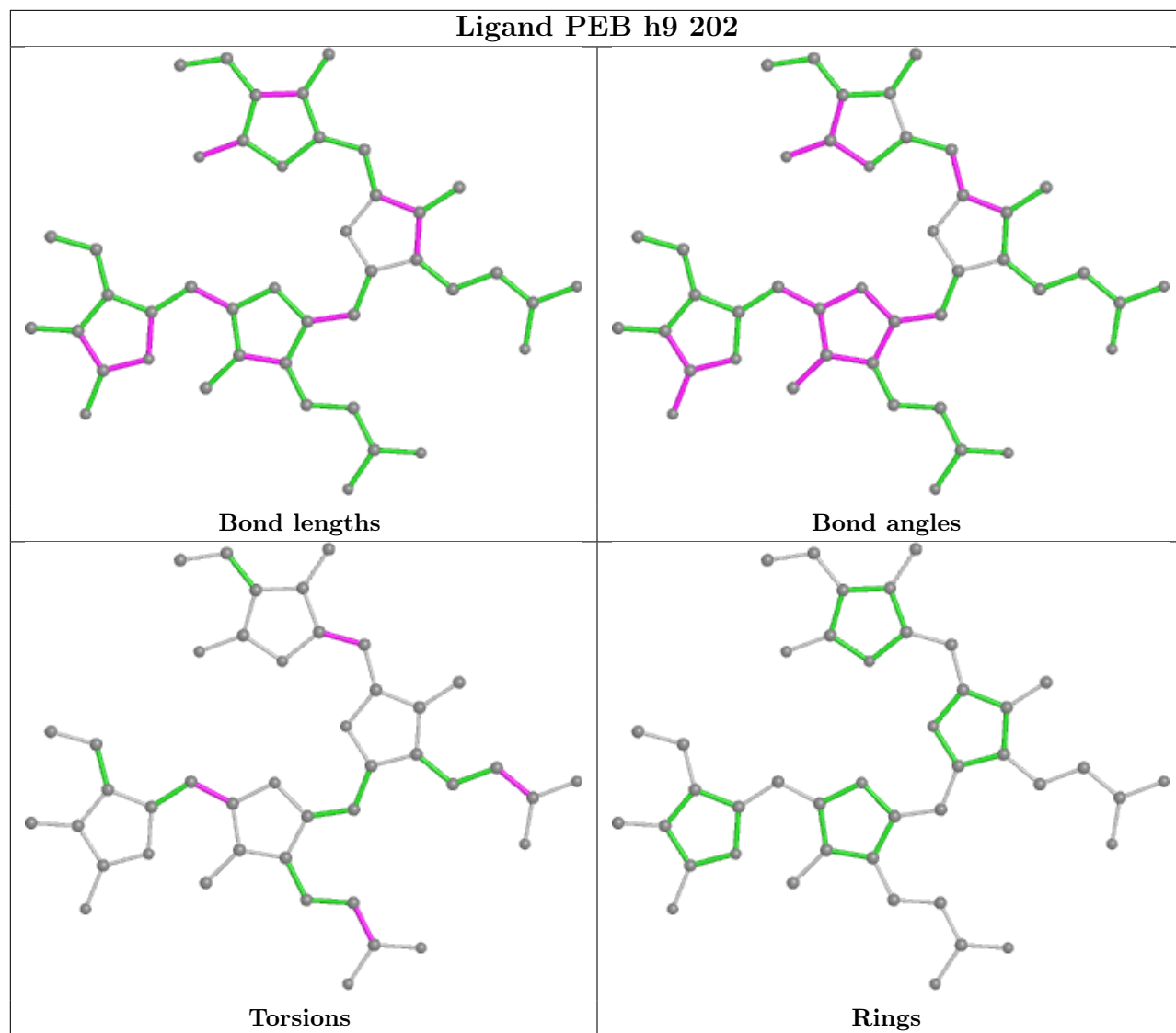
Bond angles

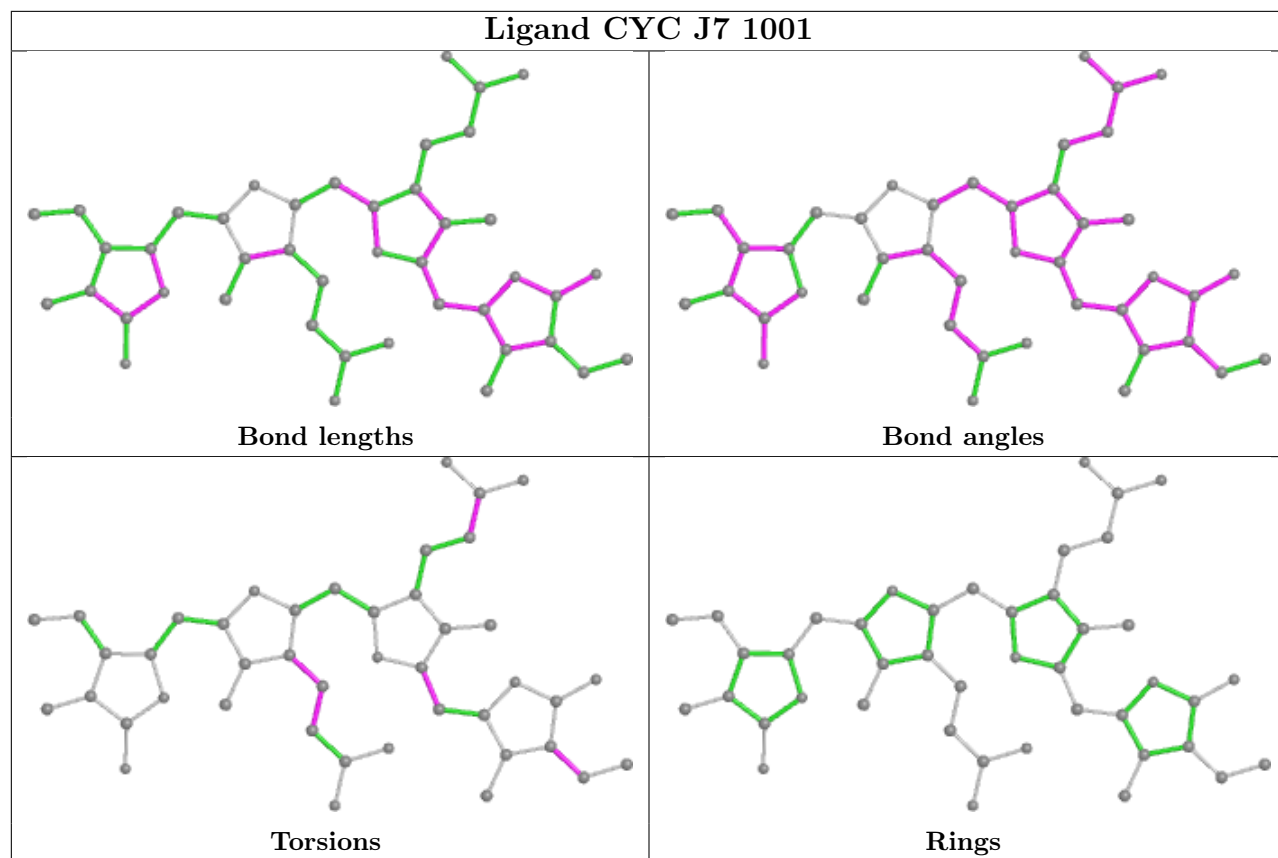


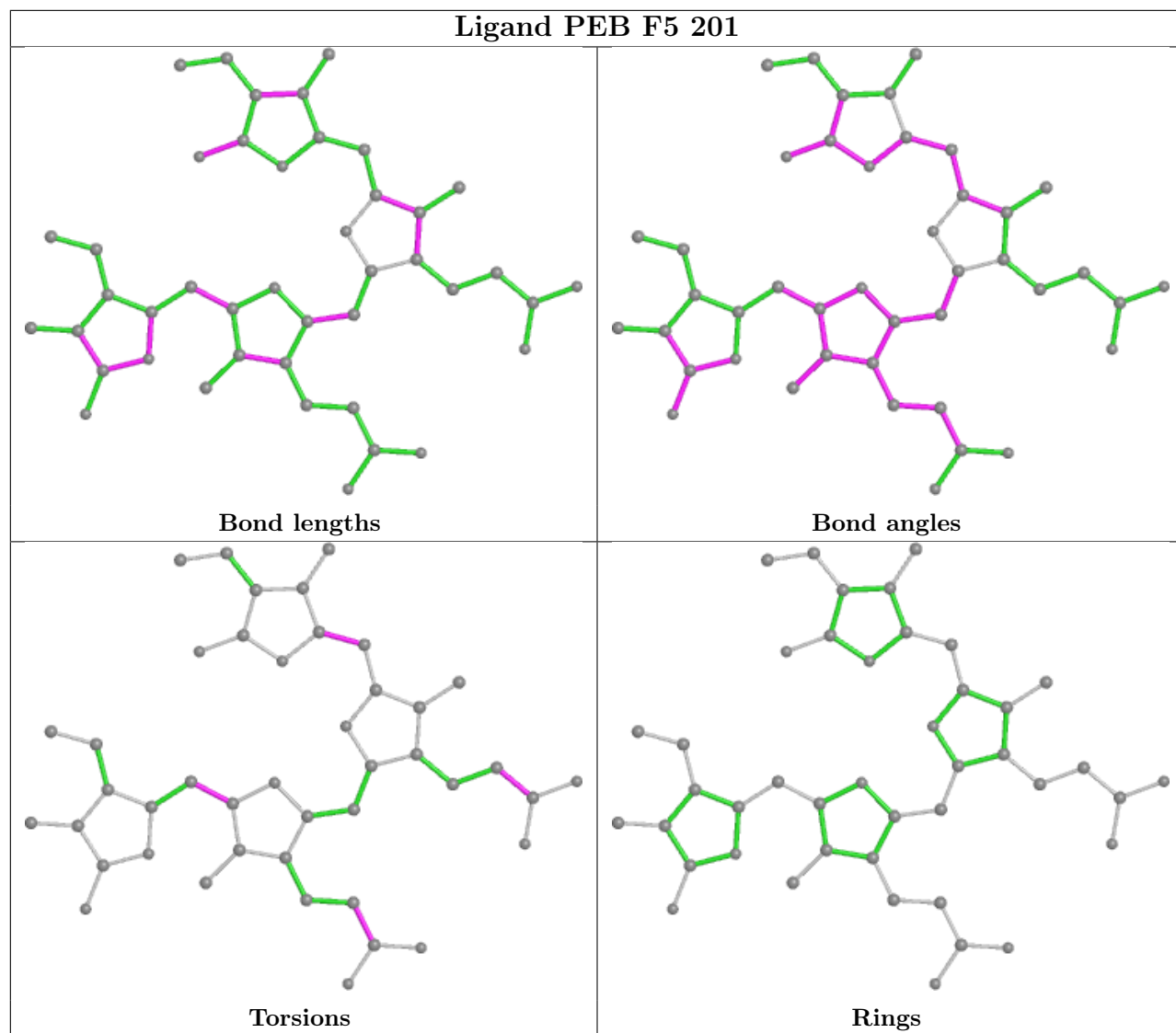
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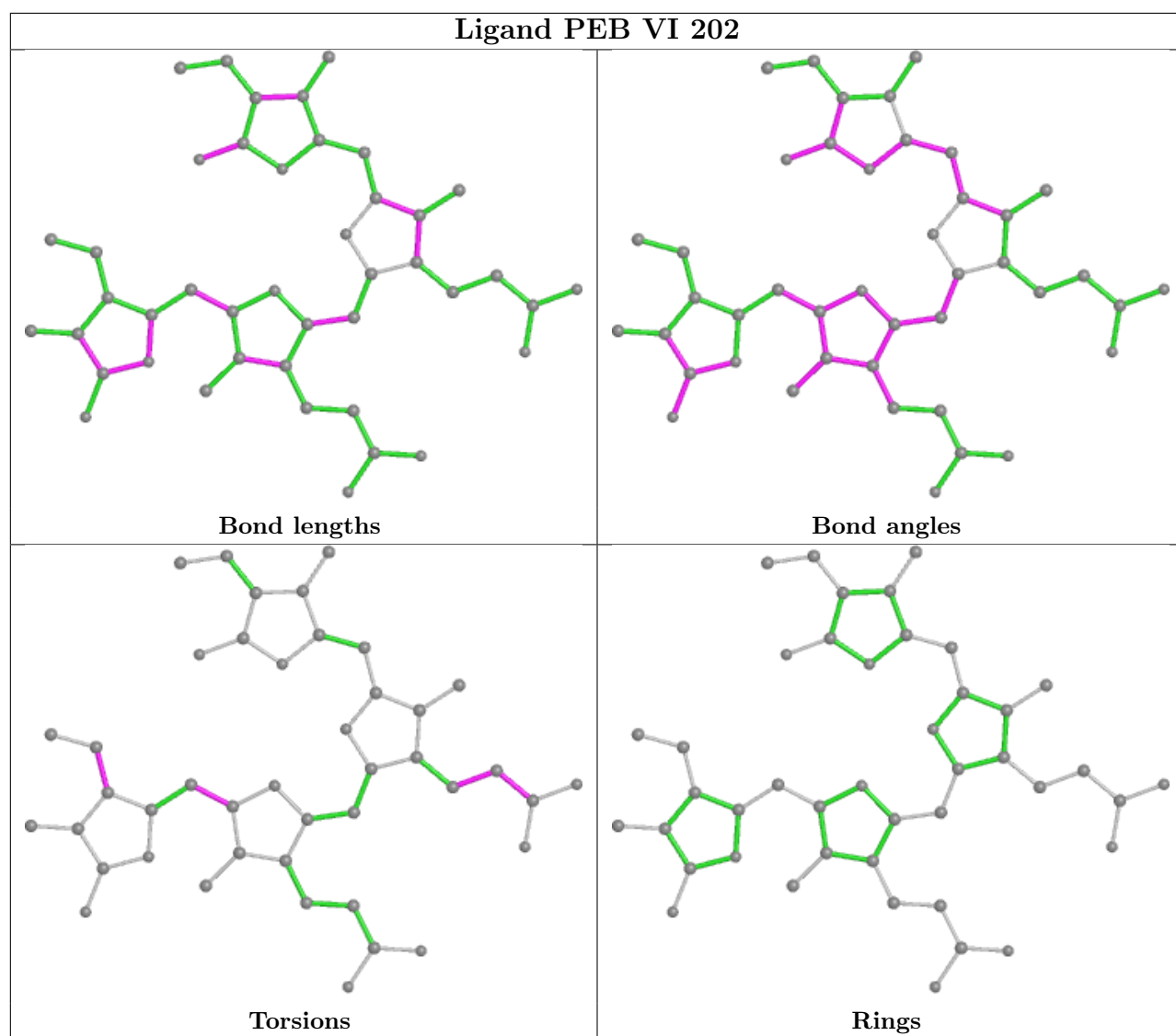


Rings

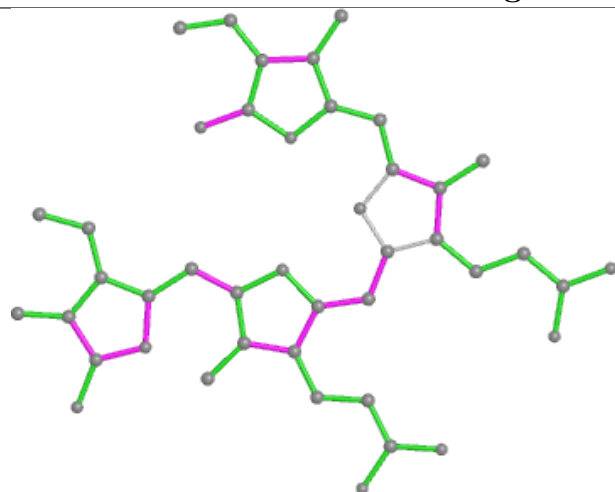




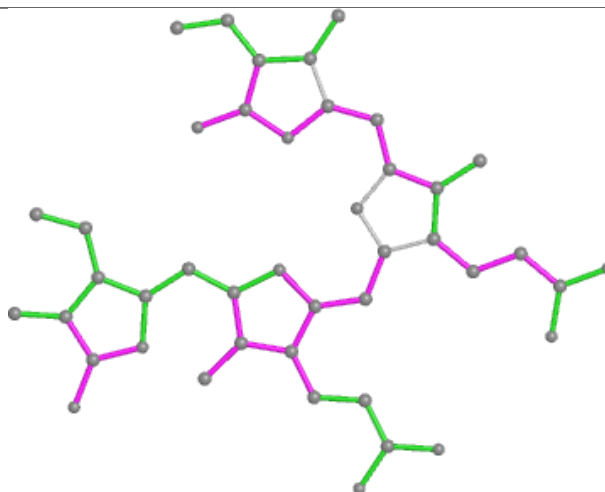




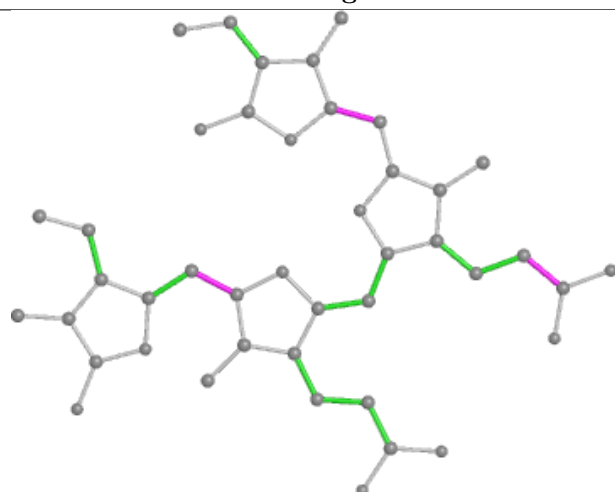
Ligand PEB HE 201



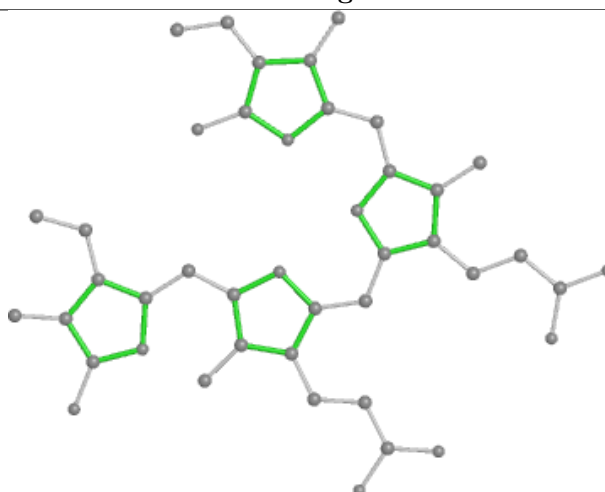
Bond lengths



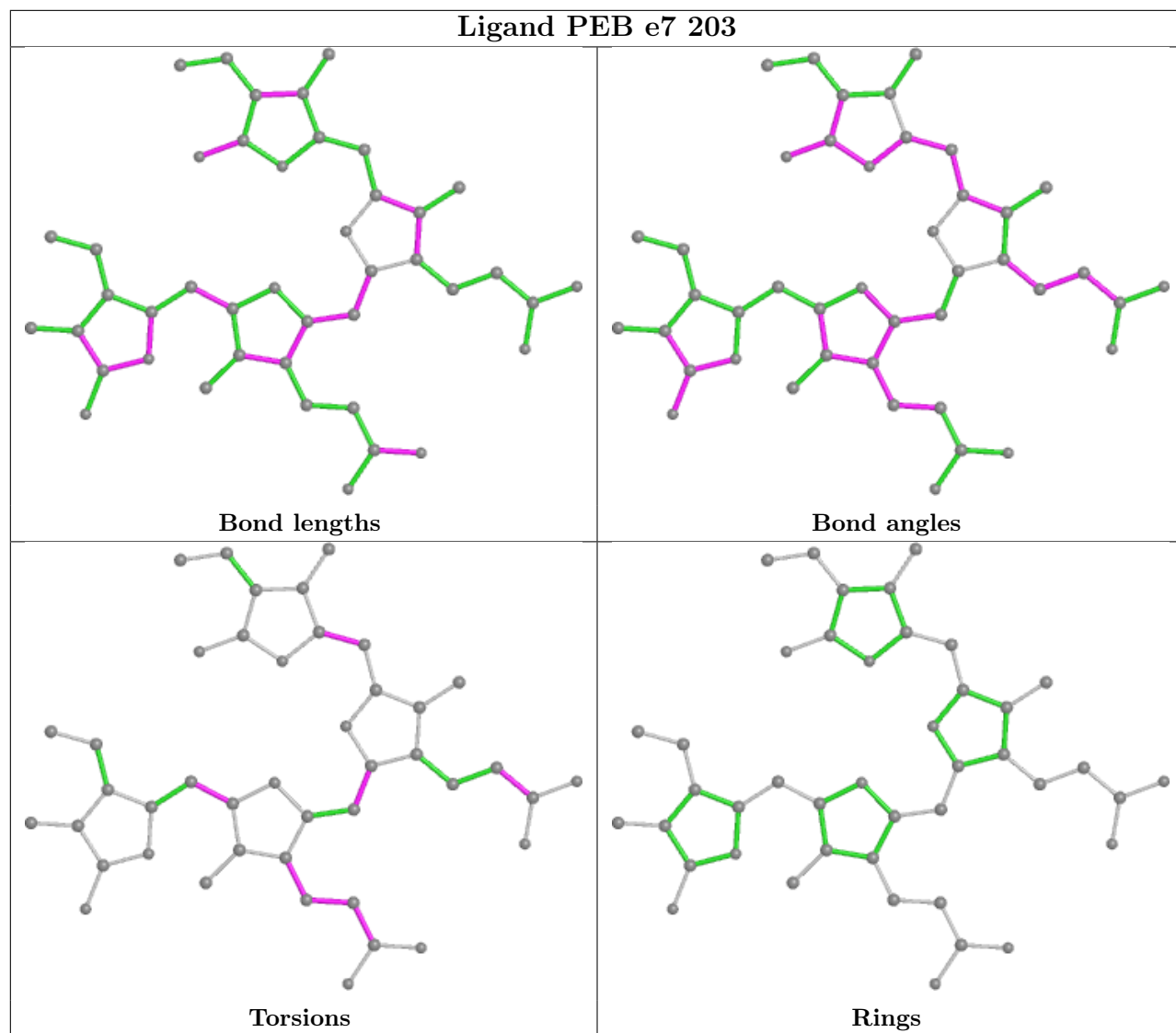
Bond angles



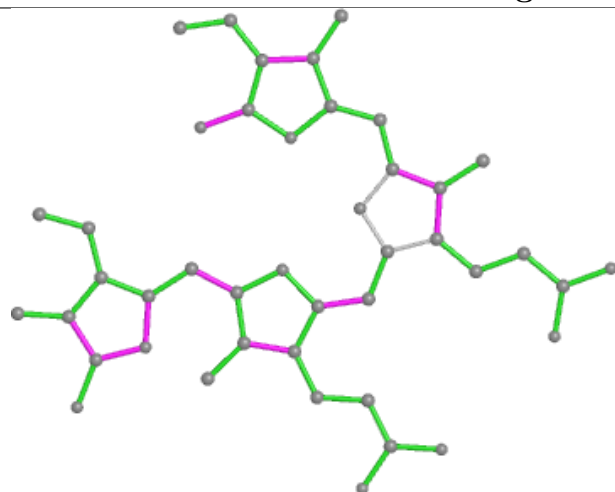
Torsions



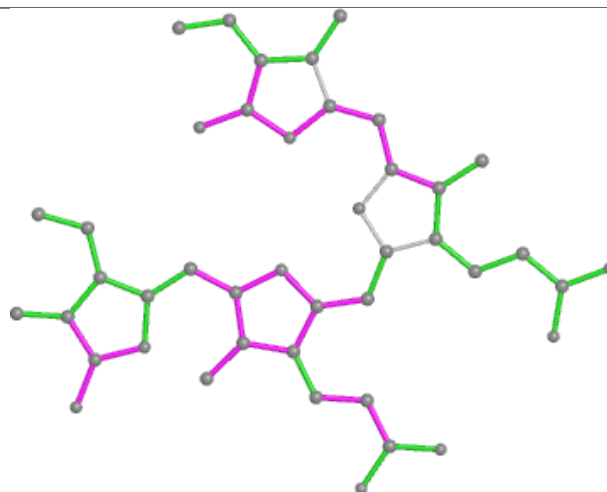
Rings



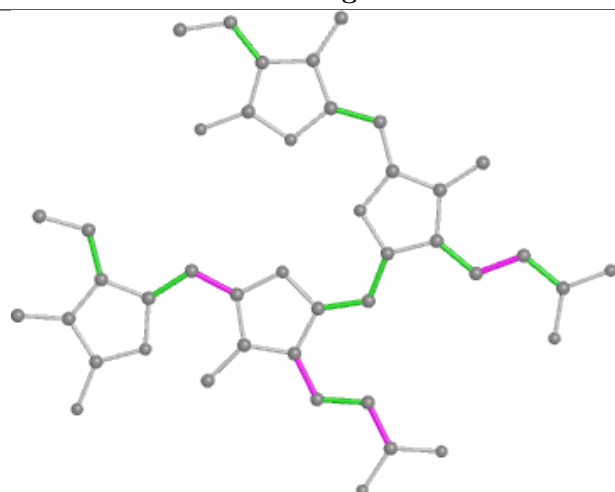
Ligand PEB i1 201



Bond lengths



Bond angles

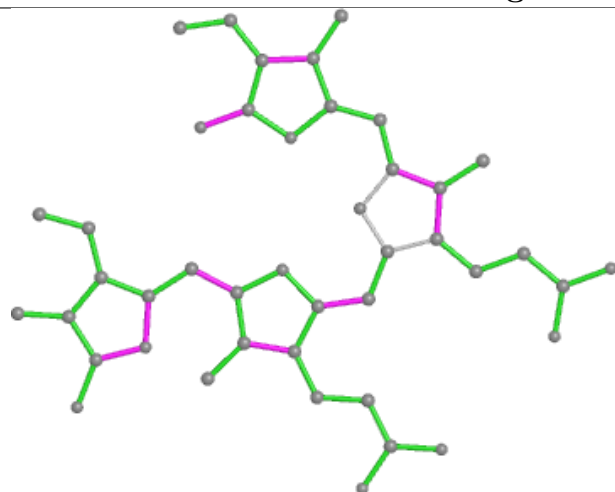


Torsions

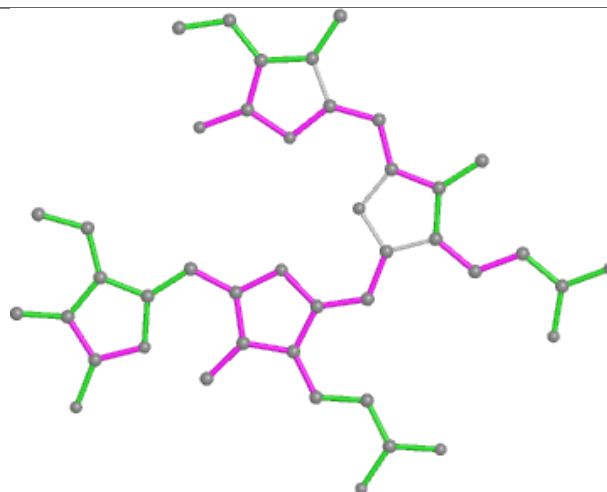


Rings

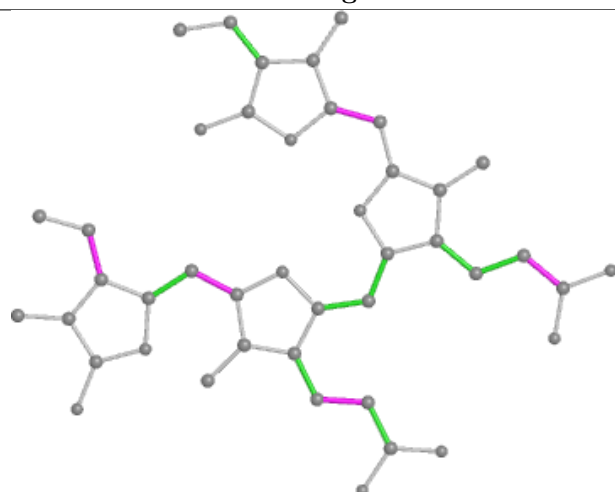
Ligand PEB UJ 201



Bond lengths



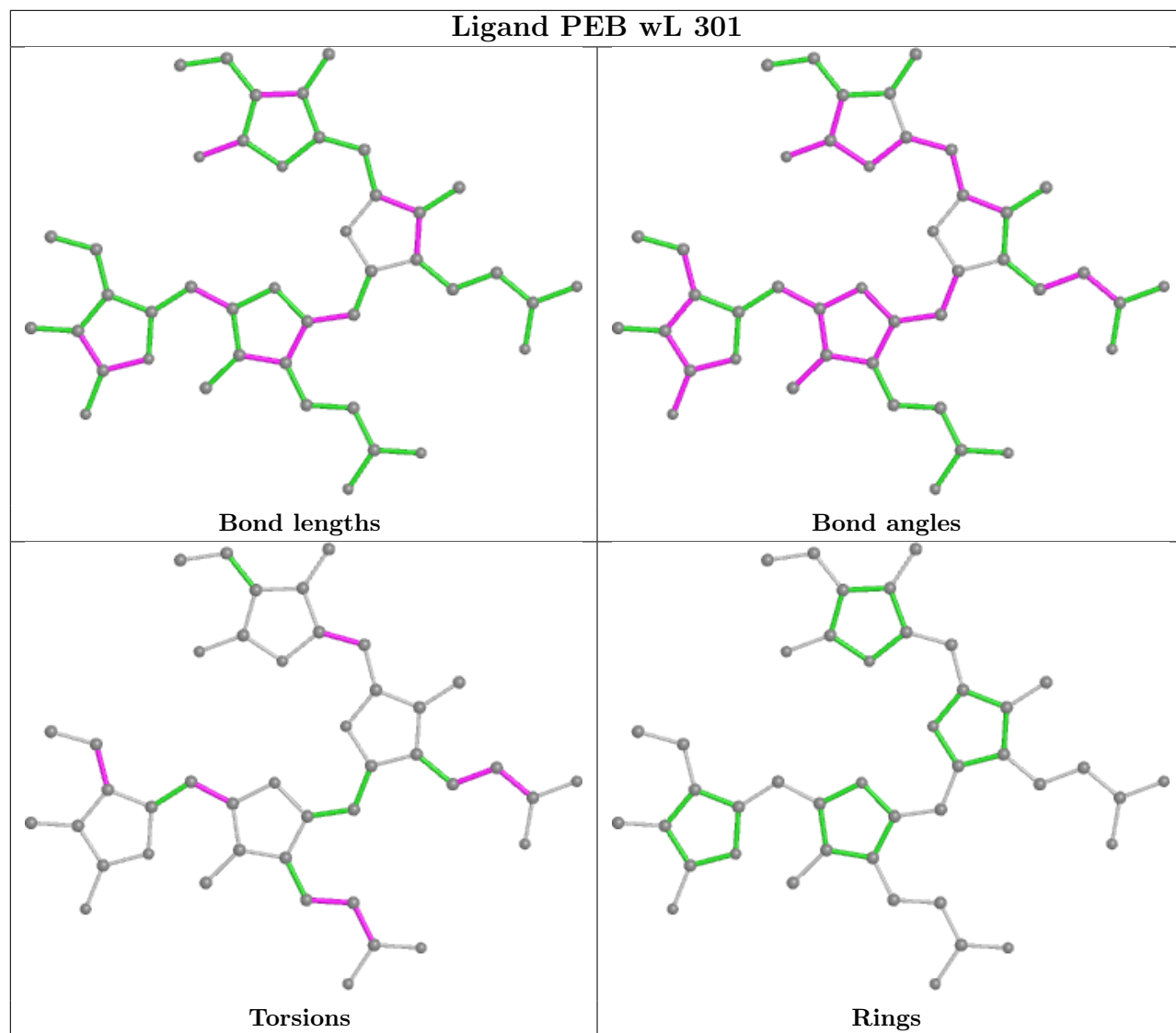
Bond angles



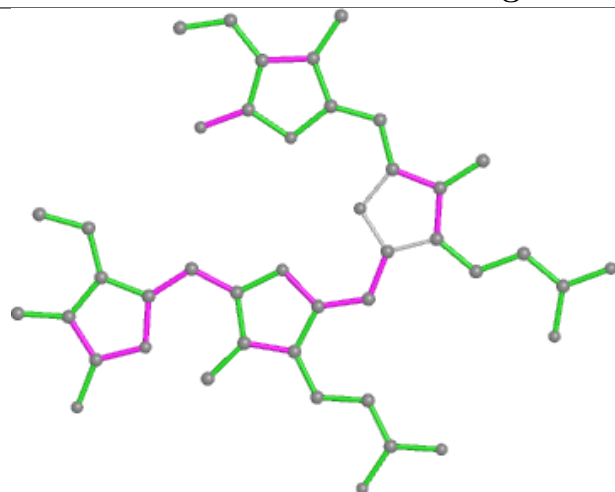
Torsions



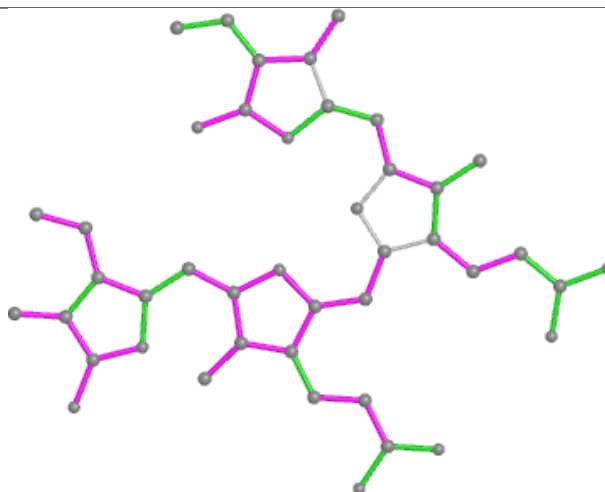
Rings



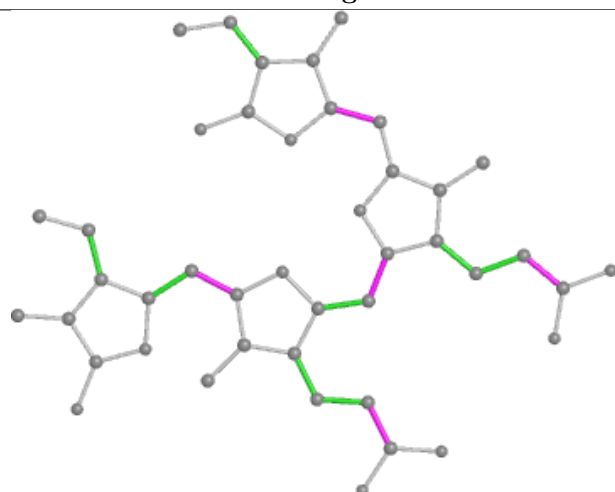
Ligand PEB DD 201



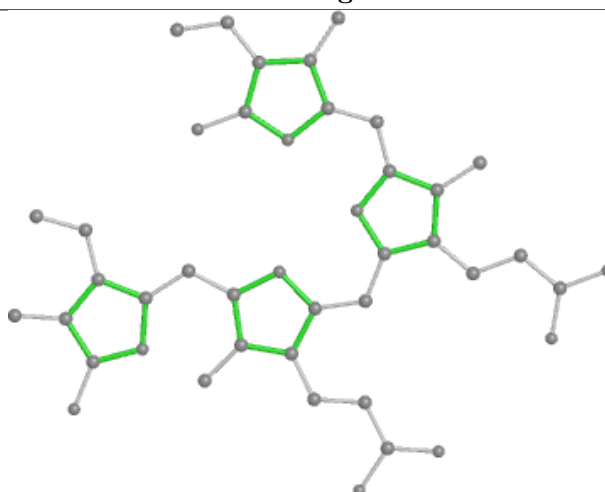
Bond lengths



Bond angles

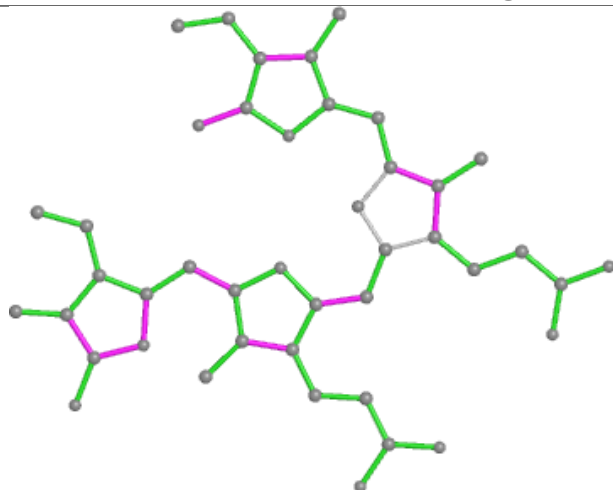


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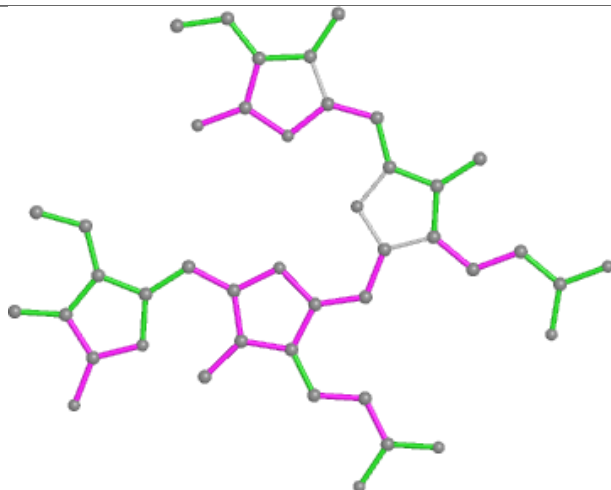


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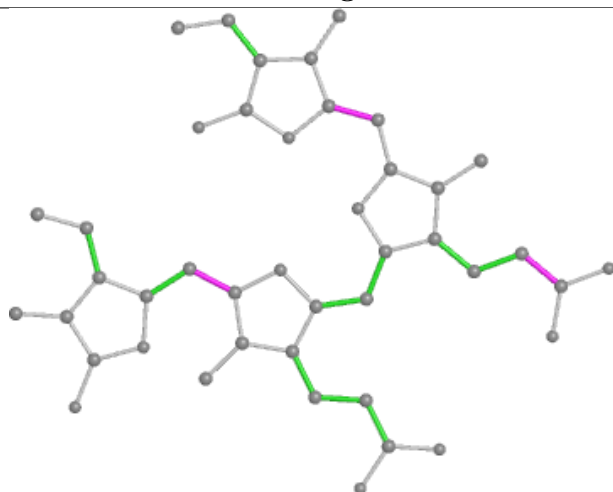
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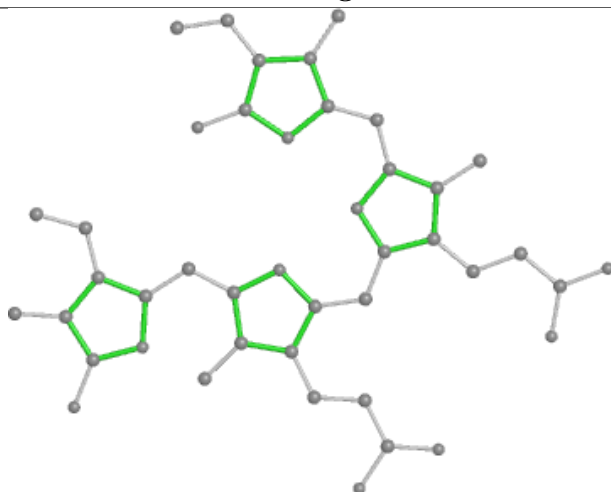
Bond lengths



Bond angles

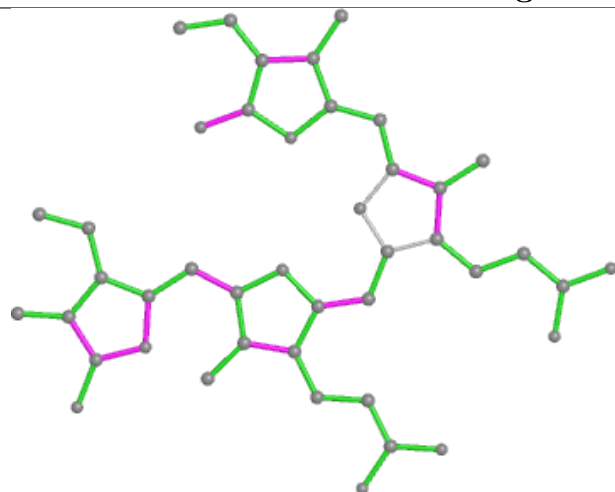


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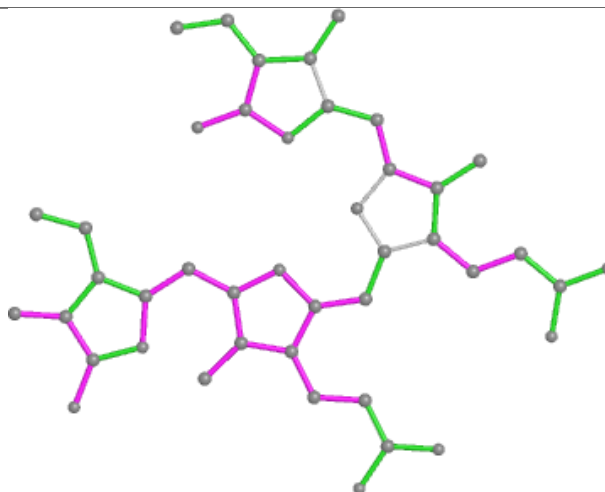


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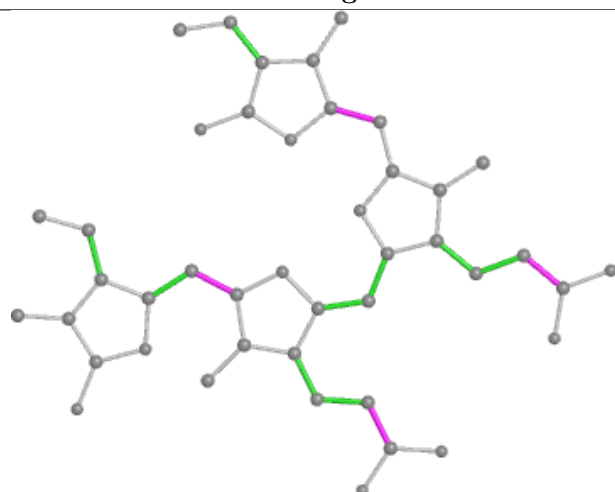
Ligand PEB 11 201



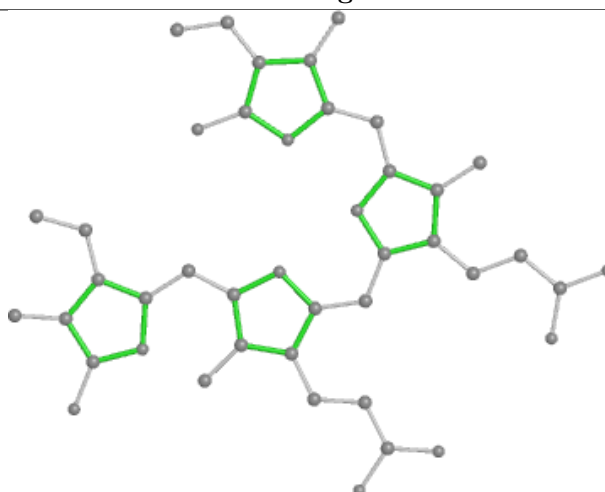
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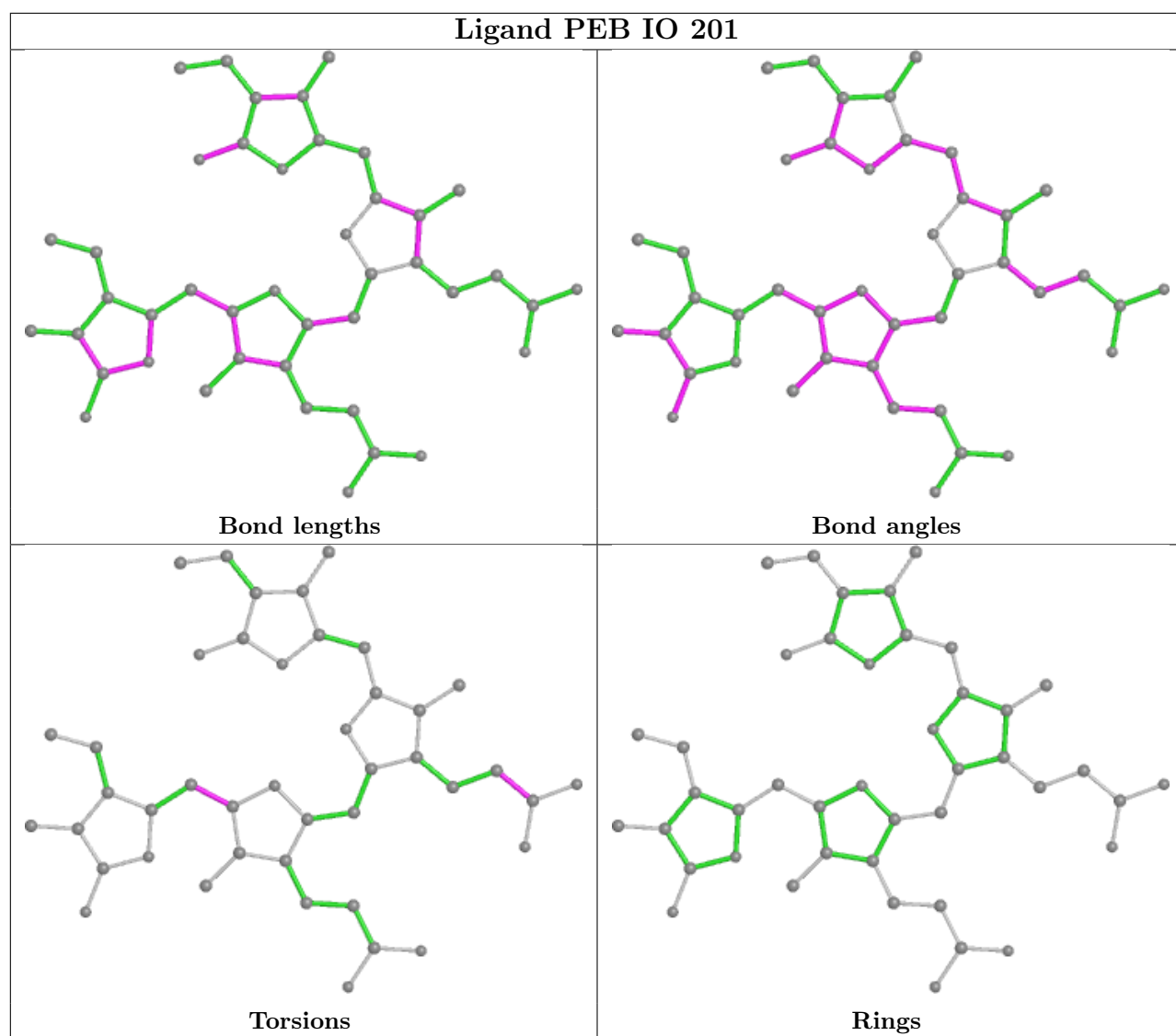
Bond angles

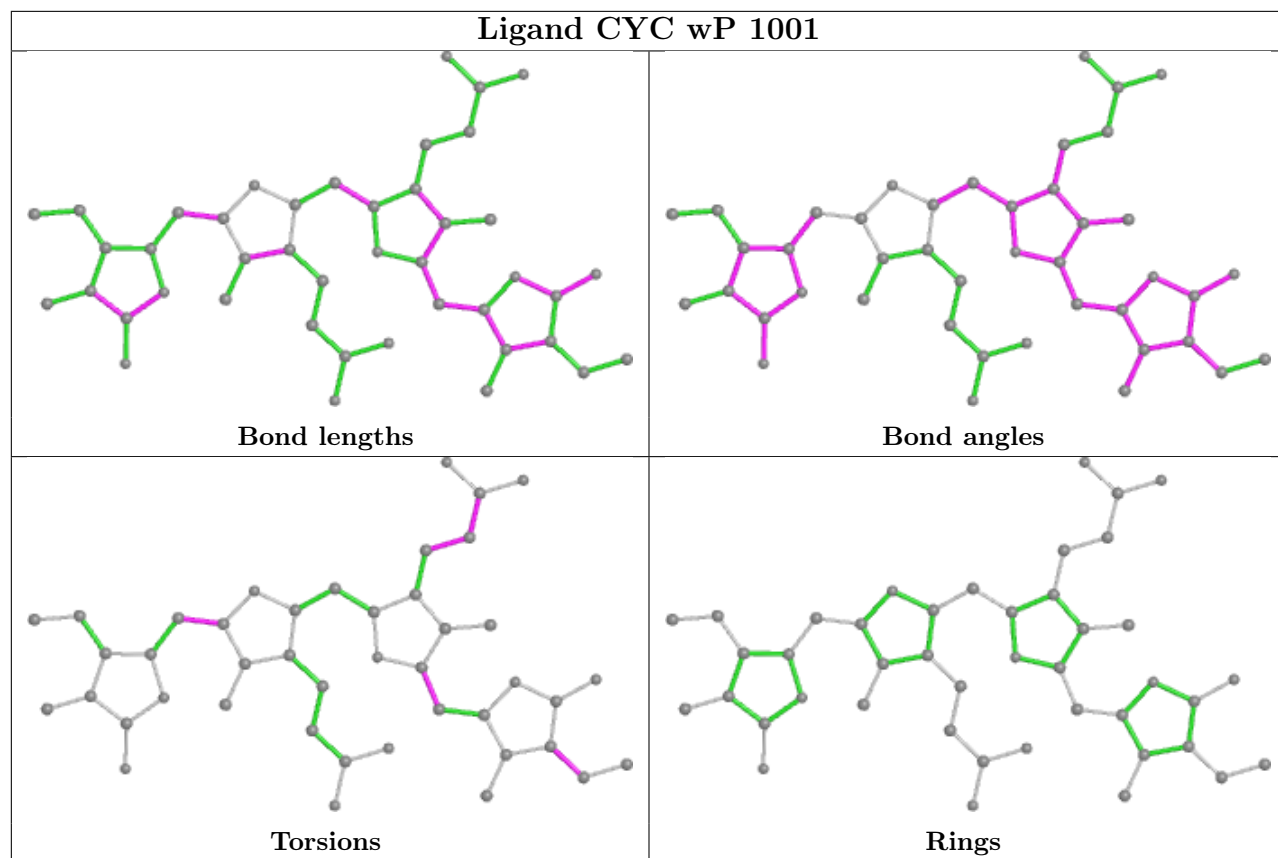


Torsions

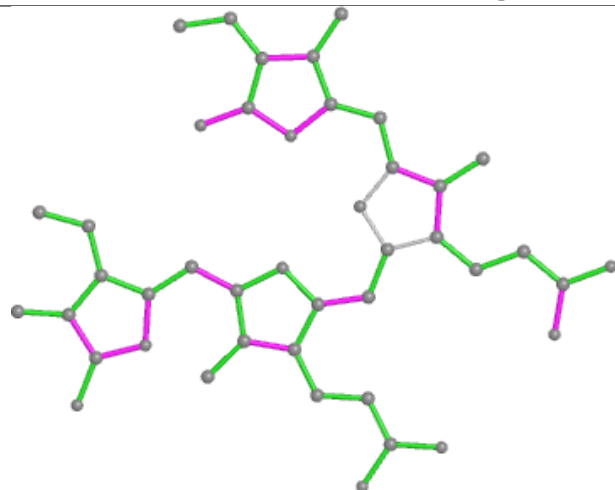


Rings

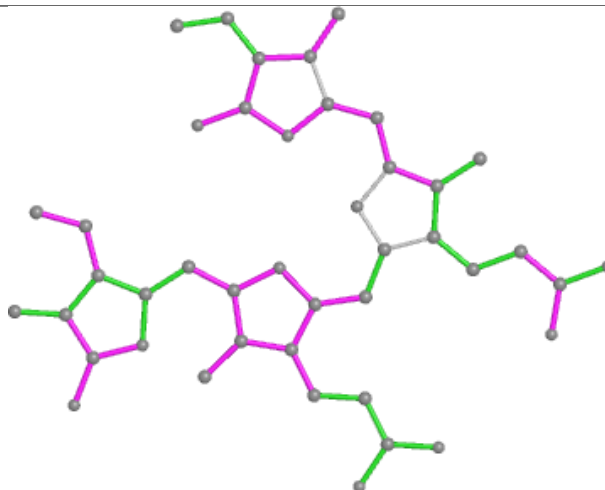




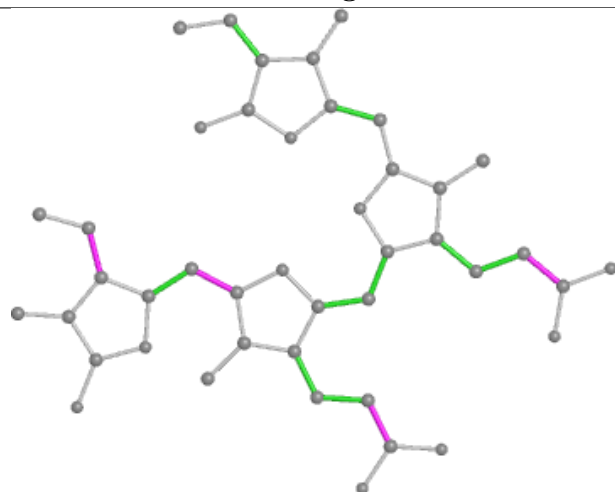
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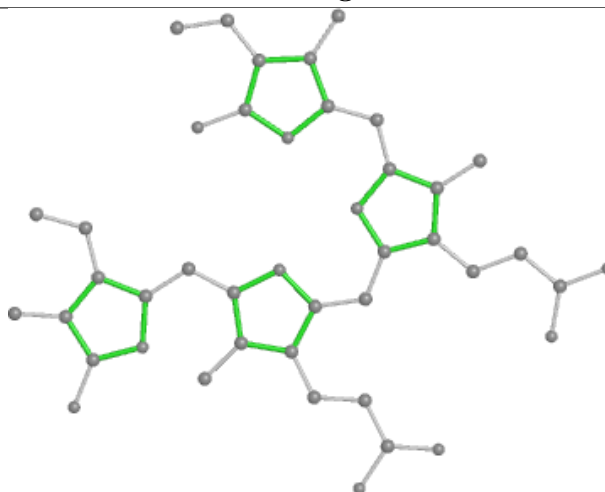
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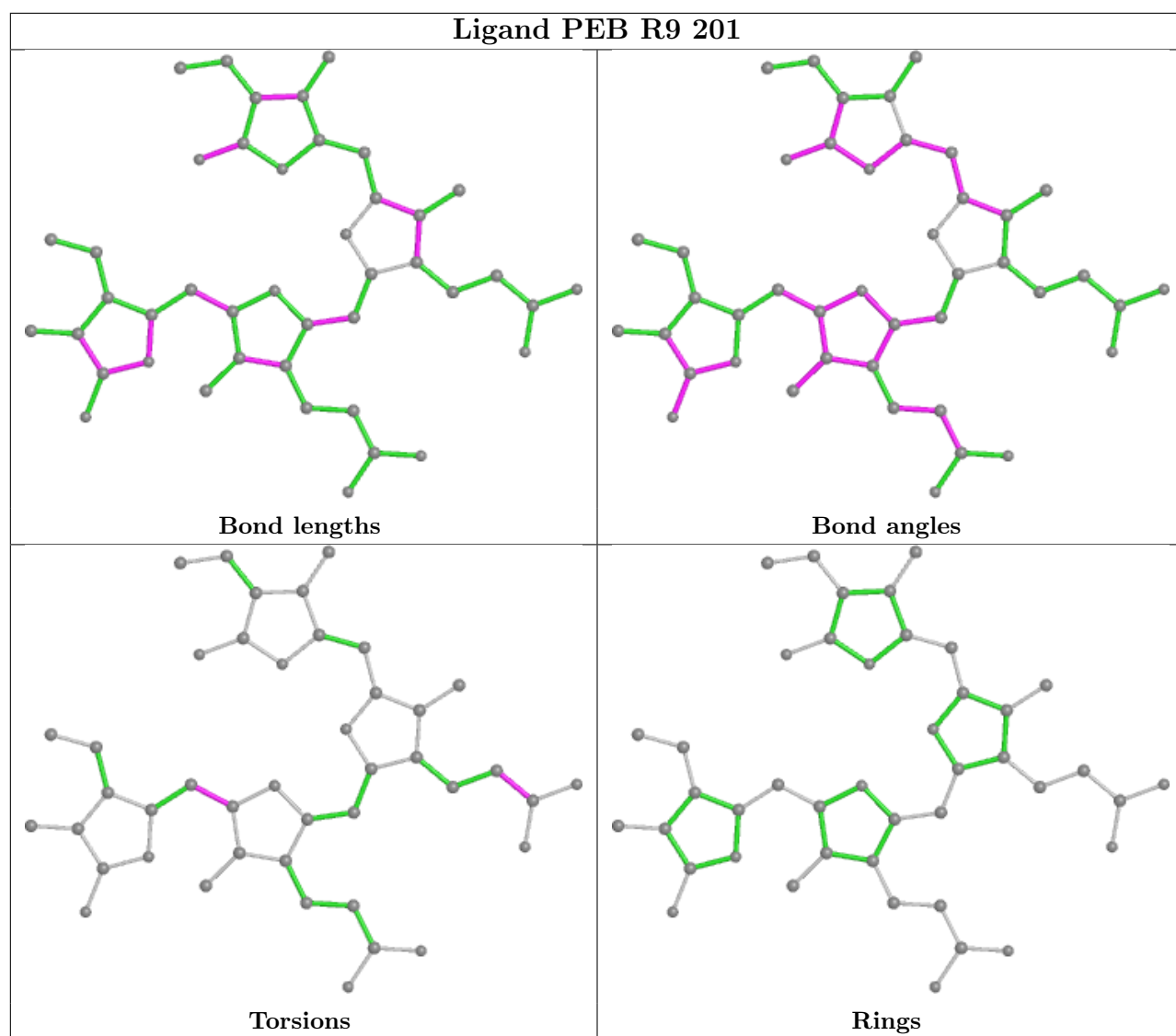
Bond angles



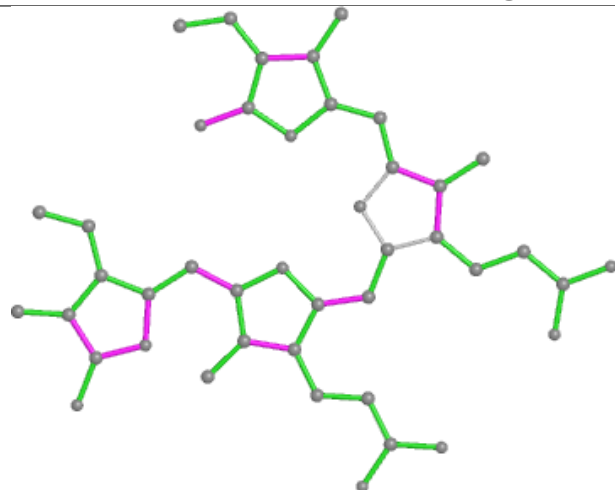
Torsions



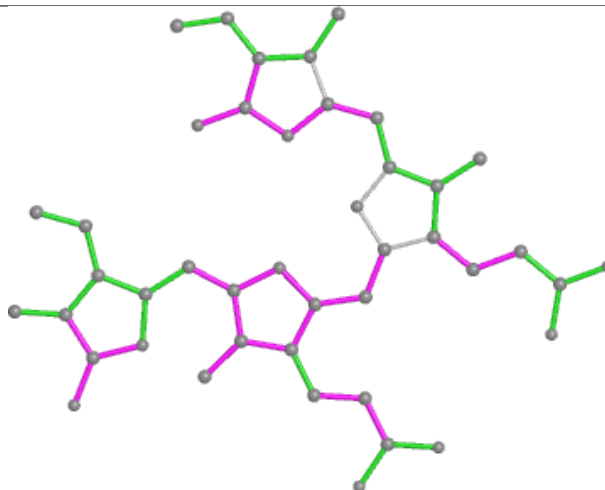
Rings



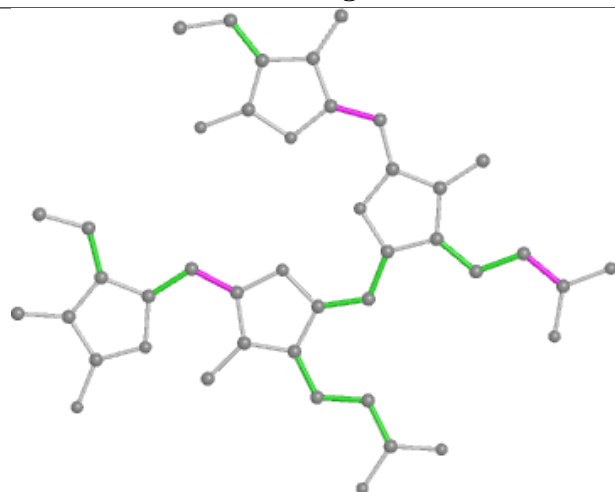
Ligand PEB PM 201



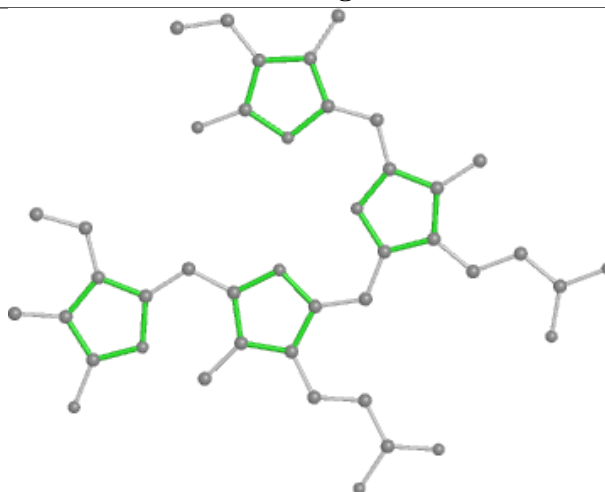
Bond lengths



Bond angles

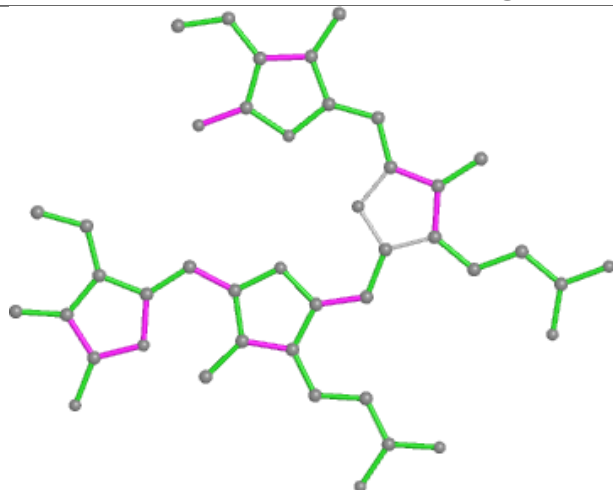


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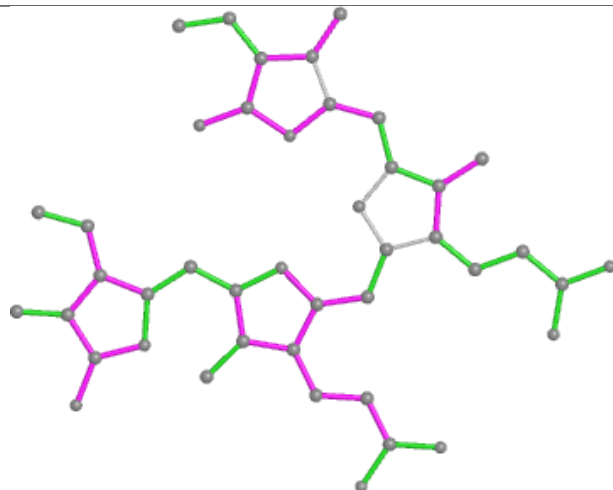


Rings

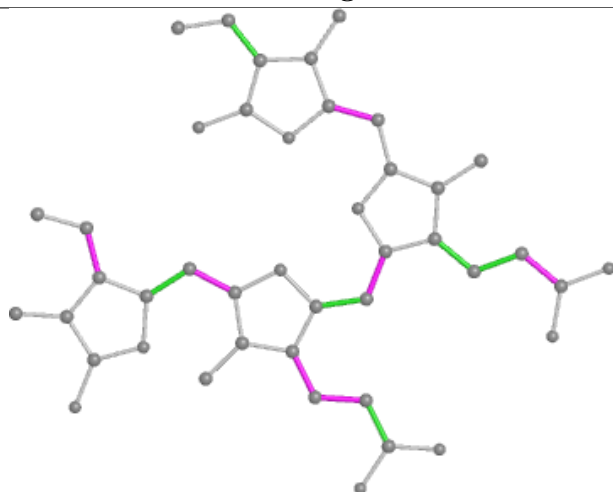
Ligand PEB F9 1002



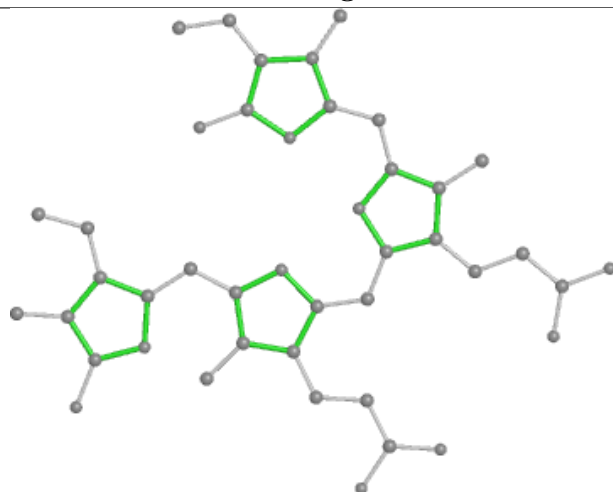
Bond lengths



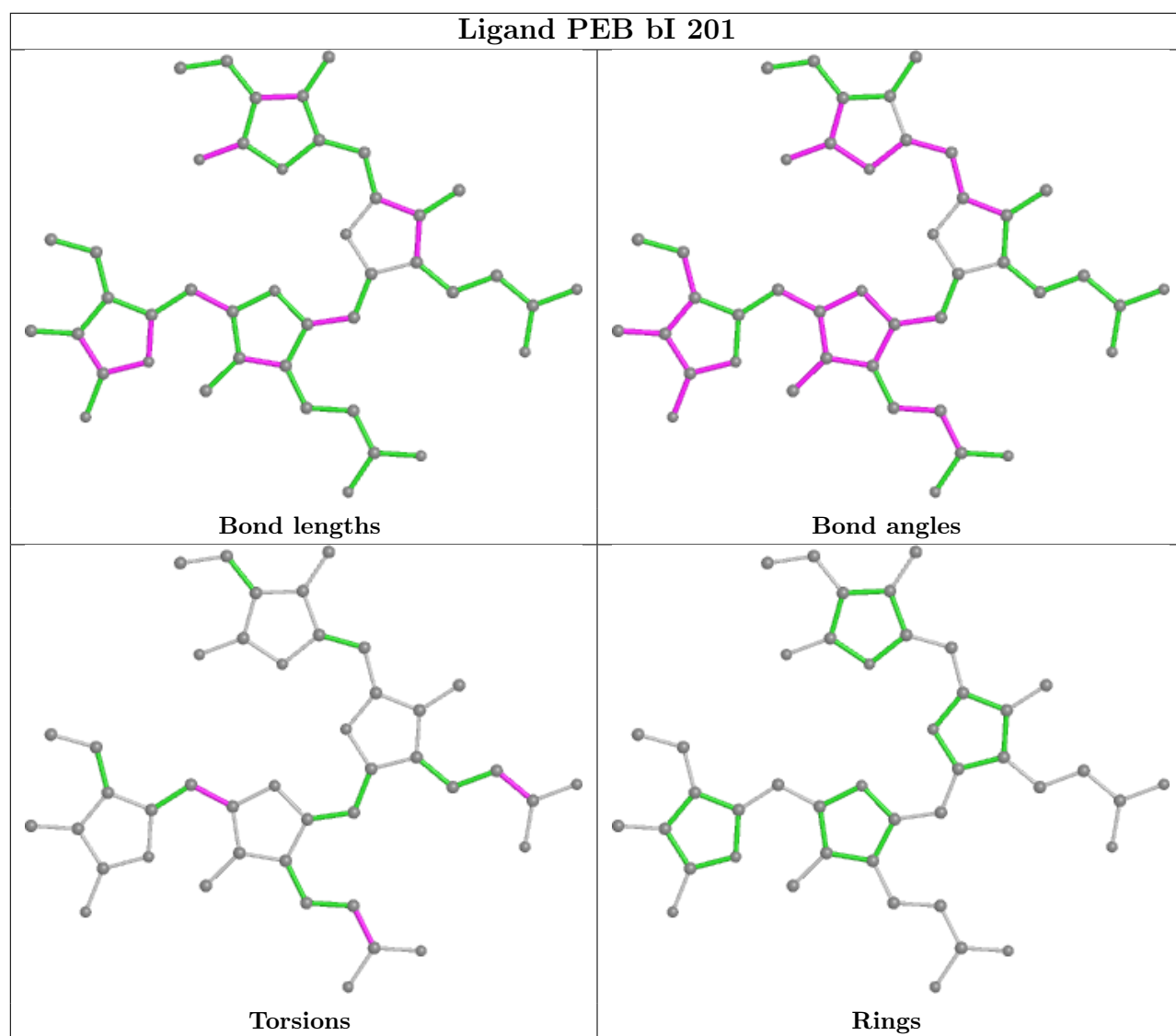
Bond angles



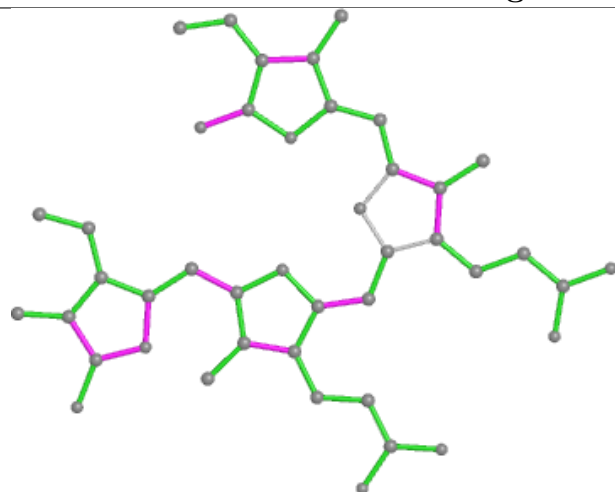
Torsions



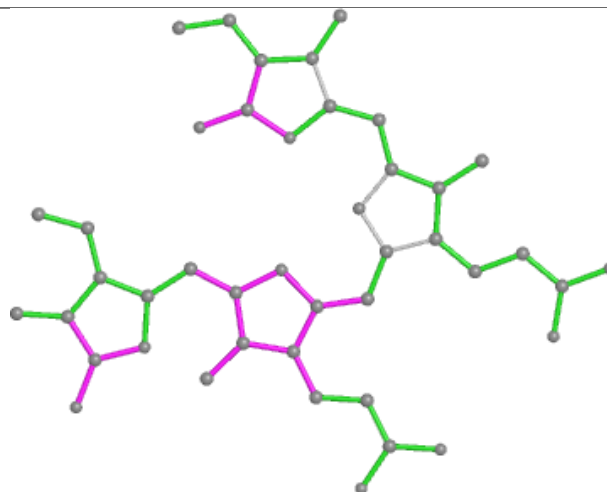
Rings



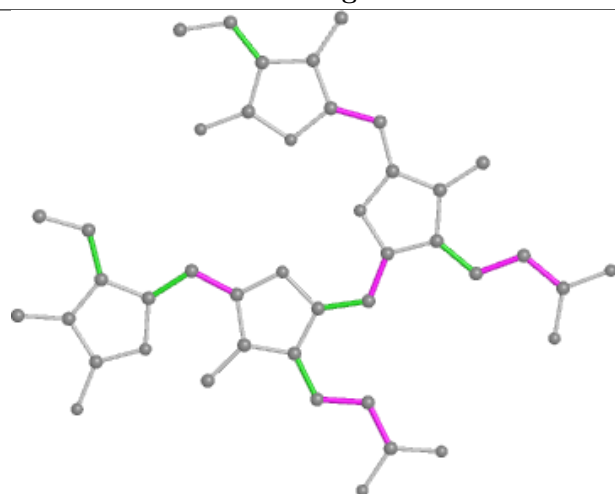
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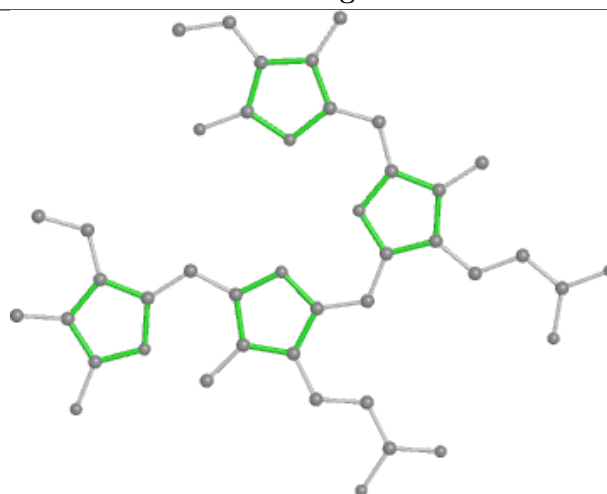
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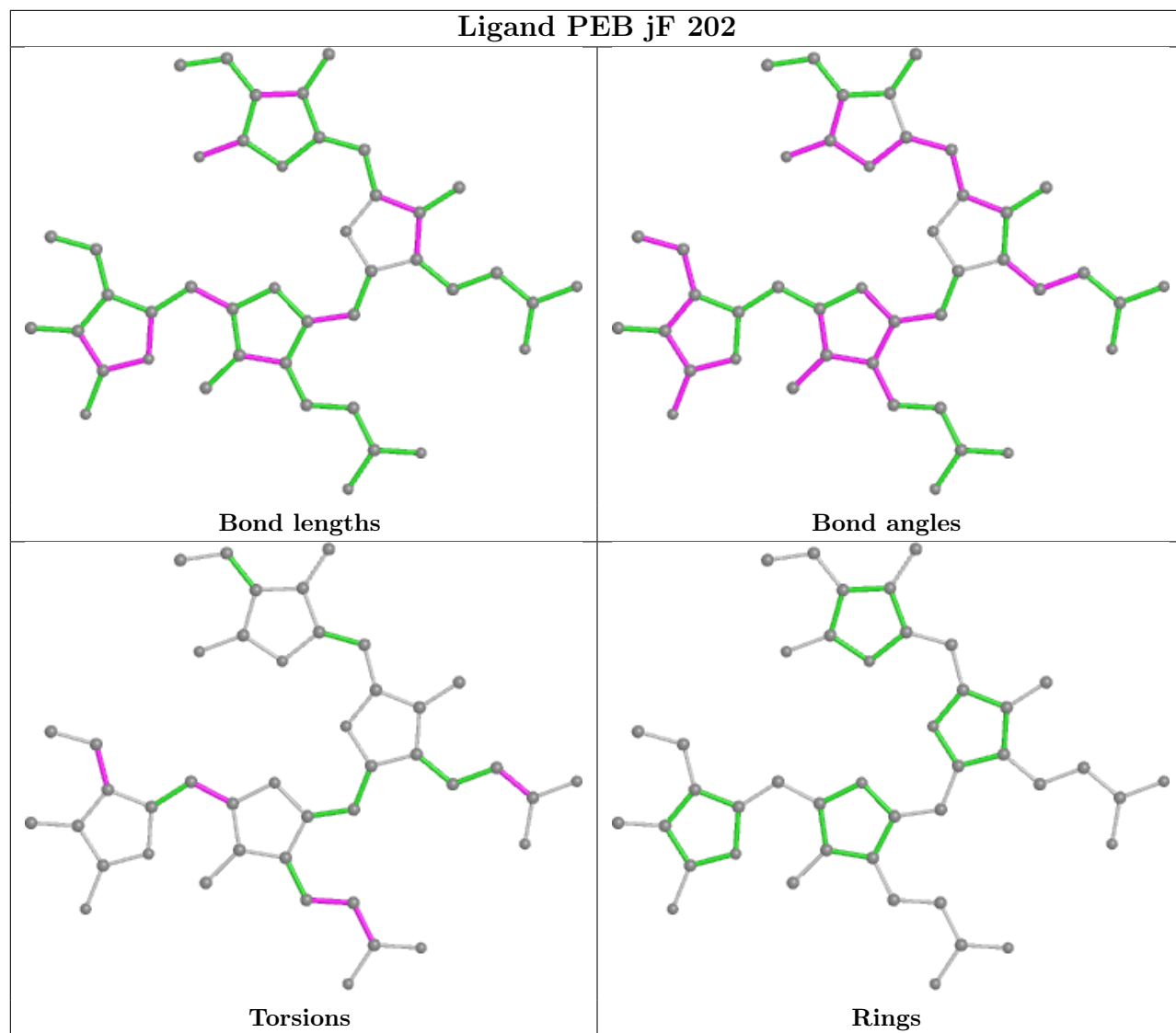
Bond angles

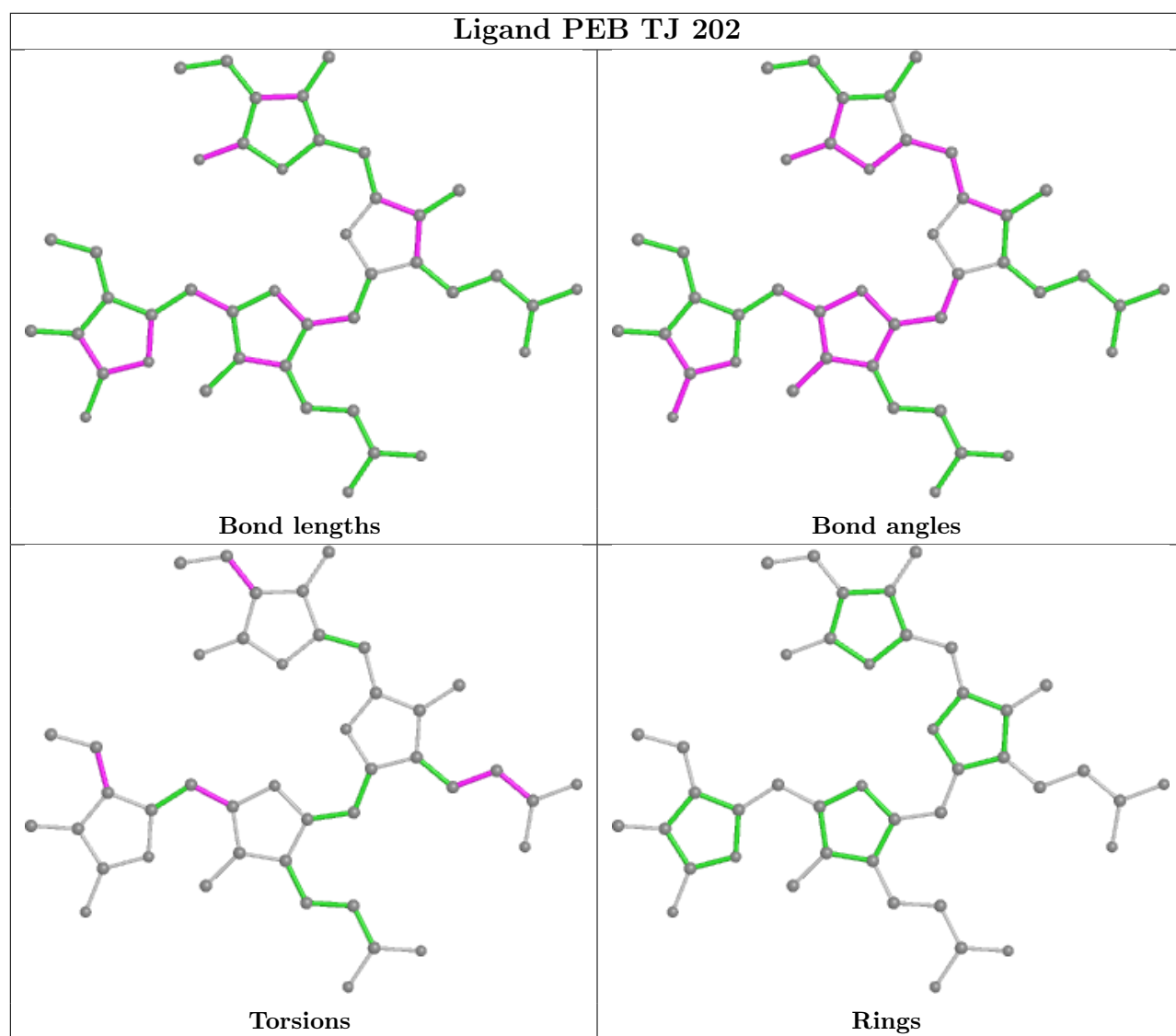


Torsions

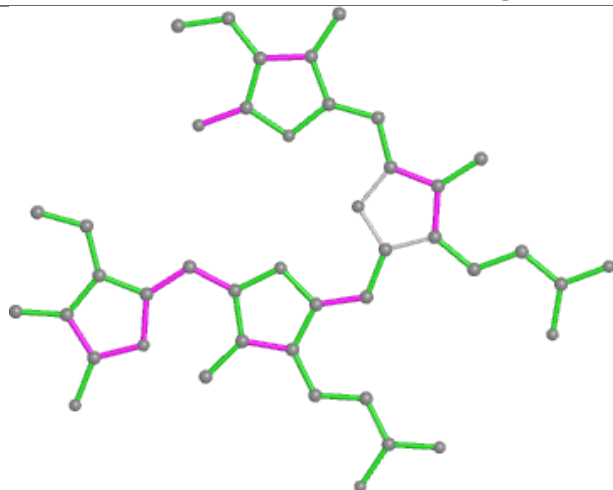


Rings

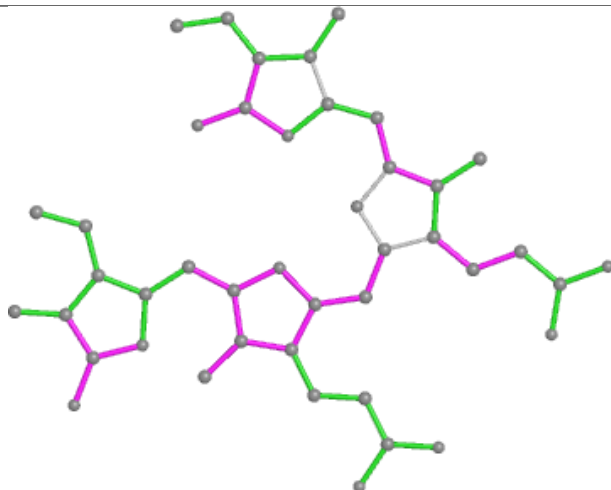




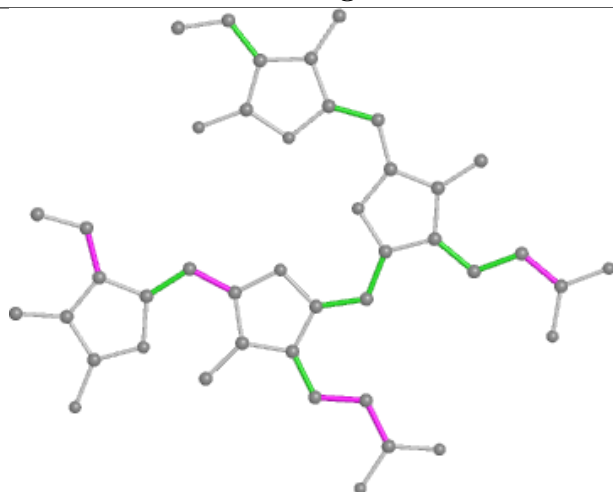
Ligand PEB MG 401



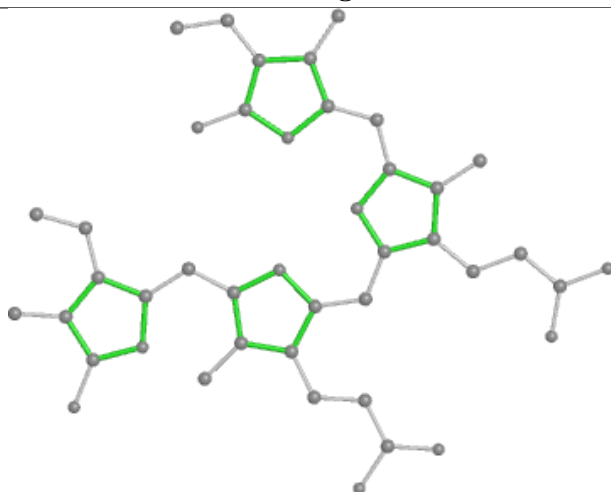
Bond lengths



Bond angles

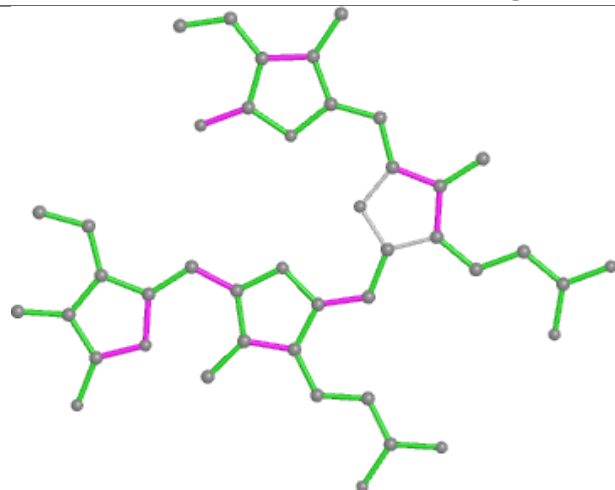


Torsions

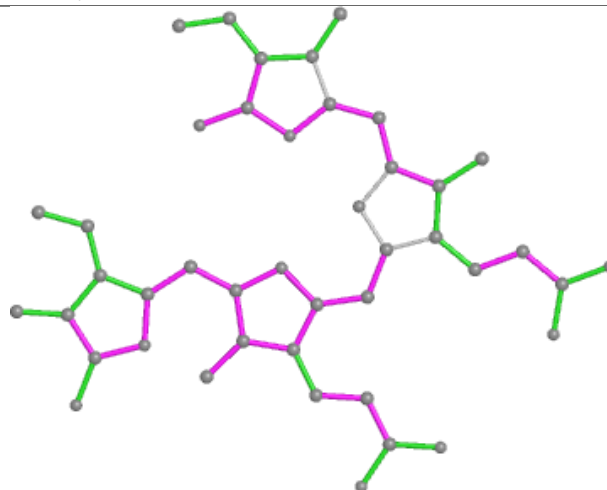


Rings

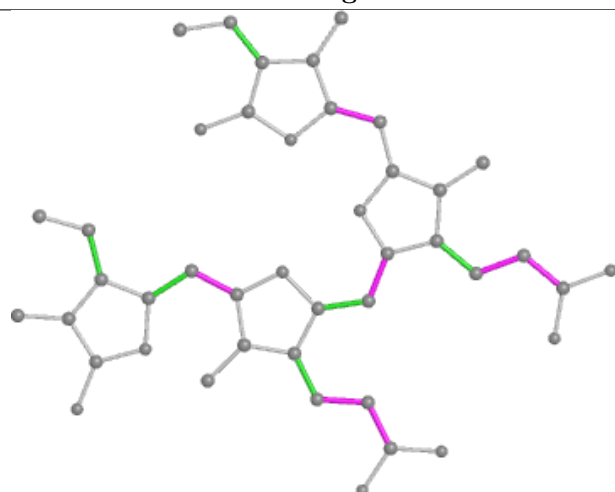
Ligand PEB JQ 203



Bond lengths



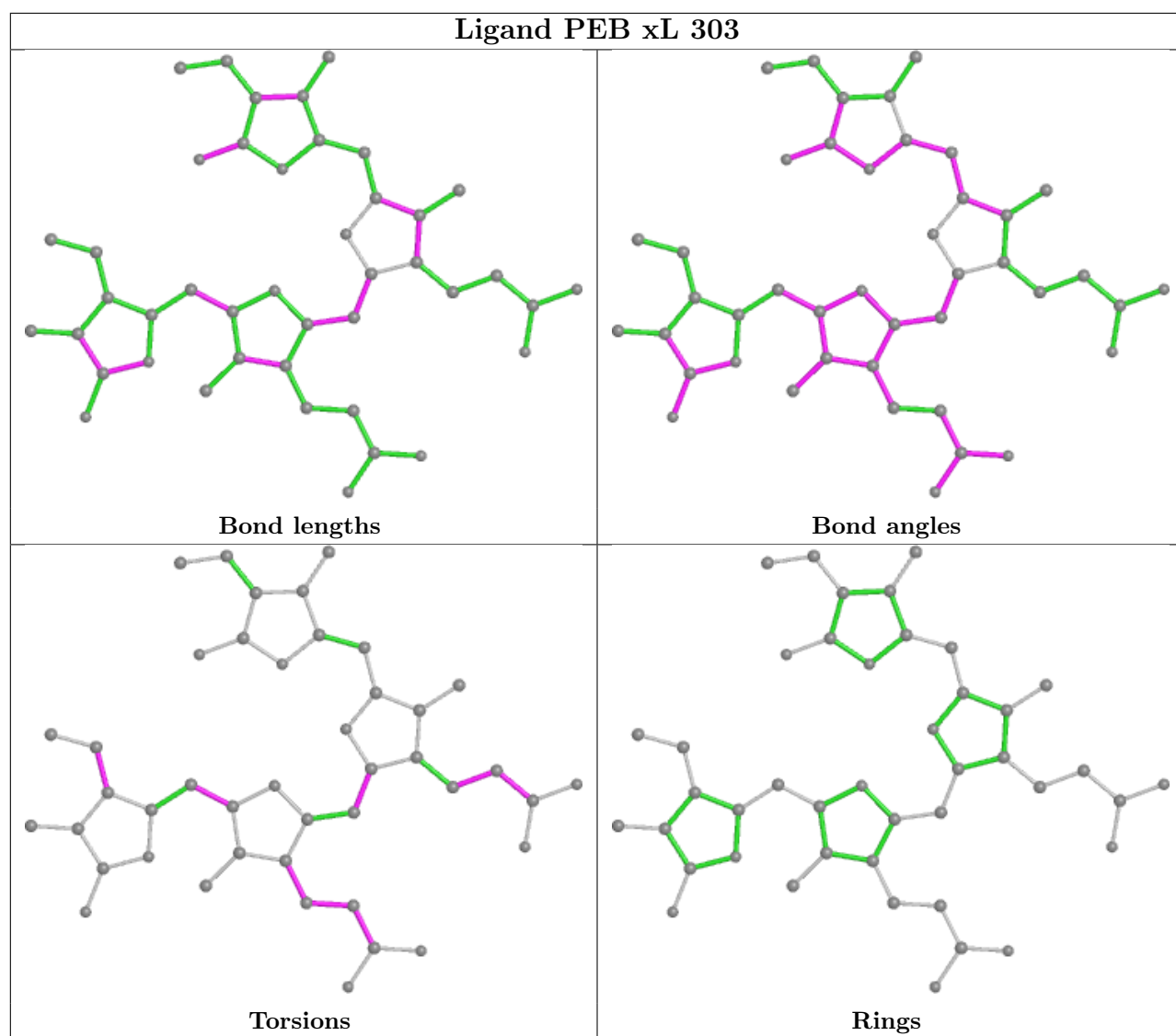
Bond angles



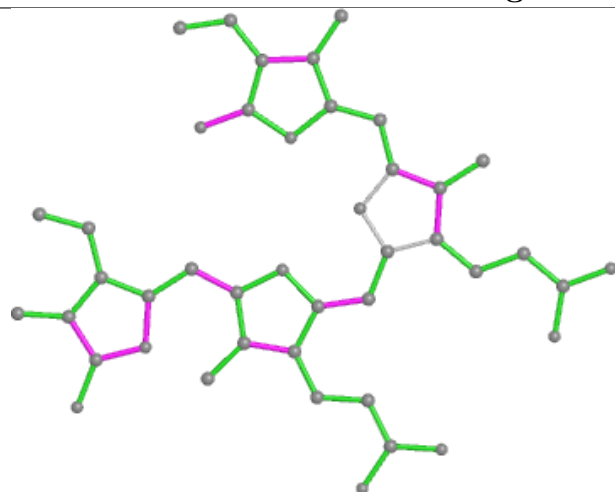
Torsions



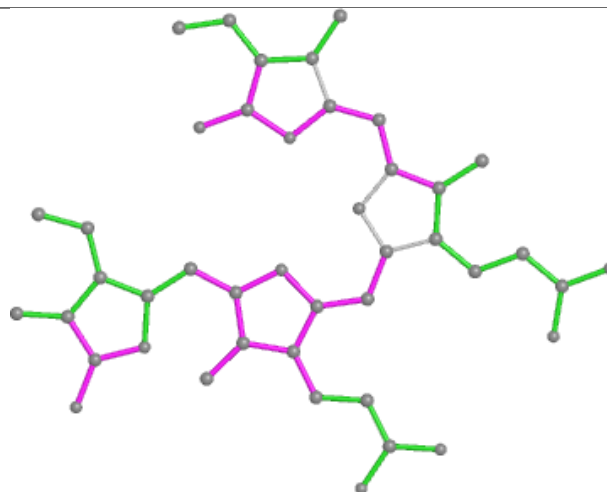
Rings



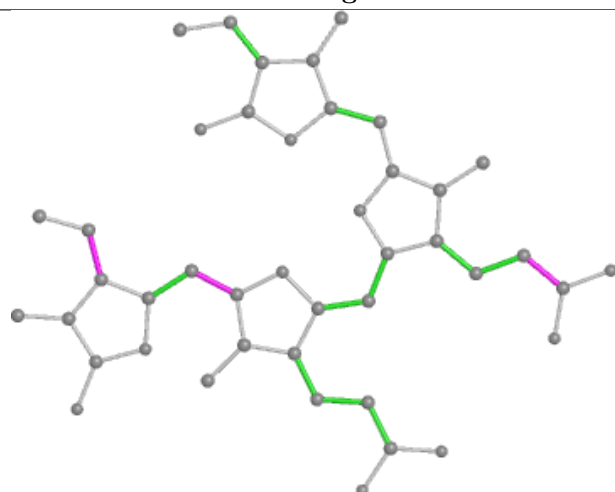
Ligand PEB ZB 202



Bond lengths



Bond angles

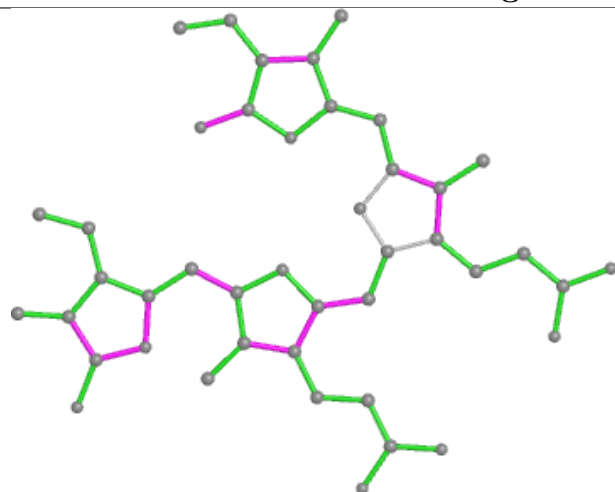


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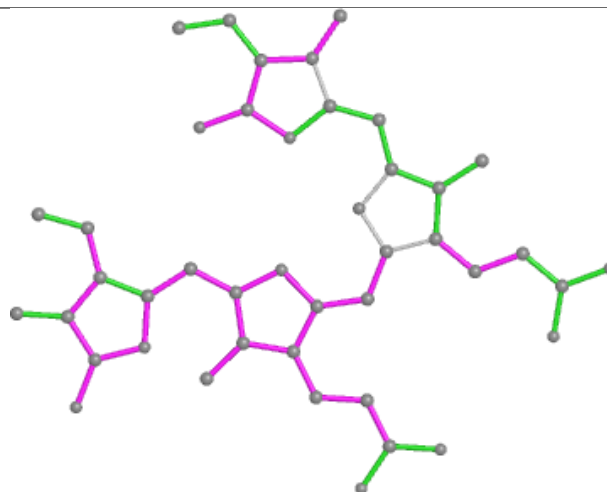


Rings

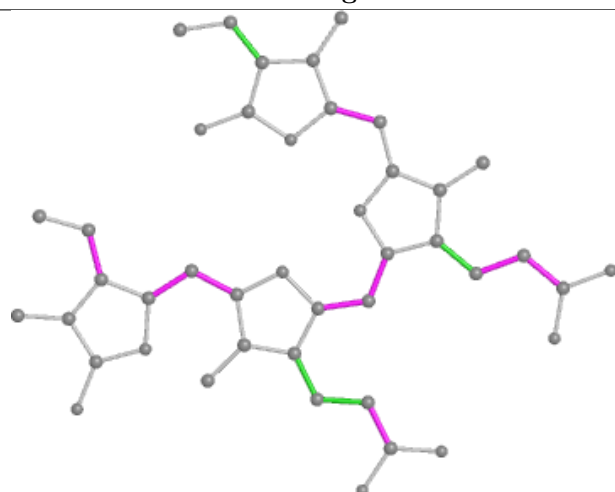
Ligand PEB KN 202



Bond lengths



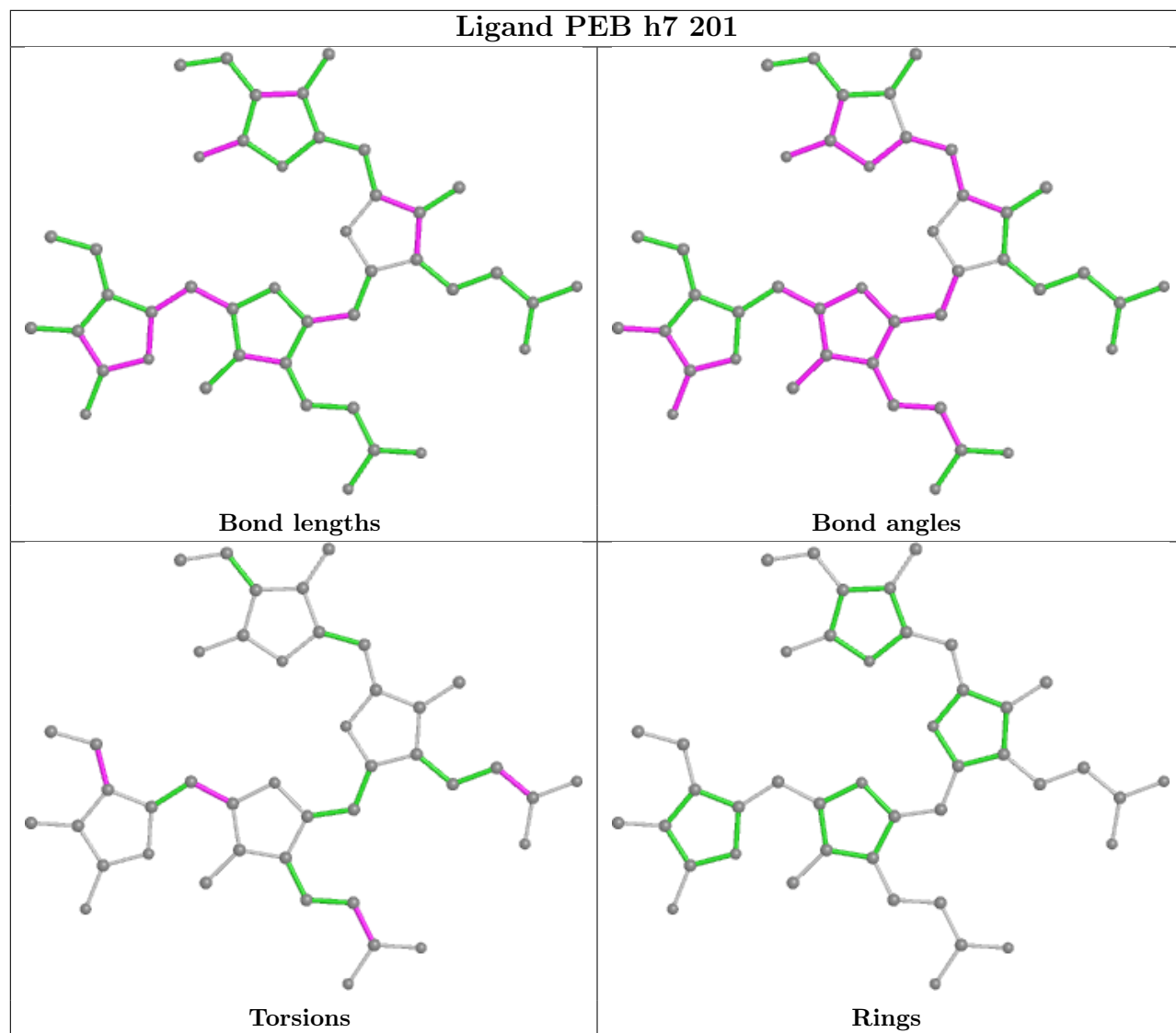
Bond angles

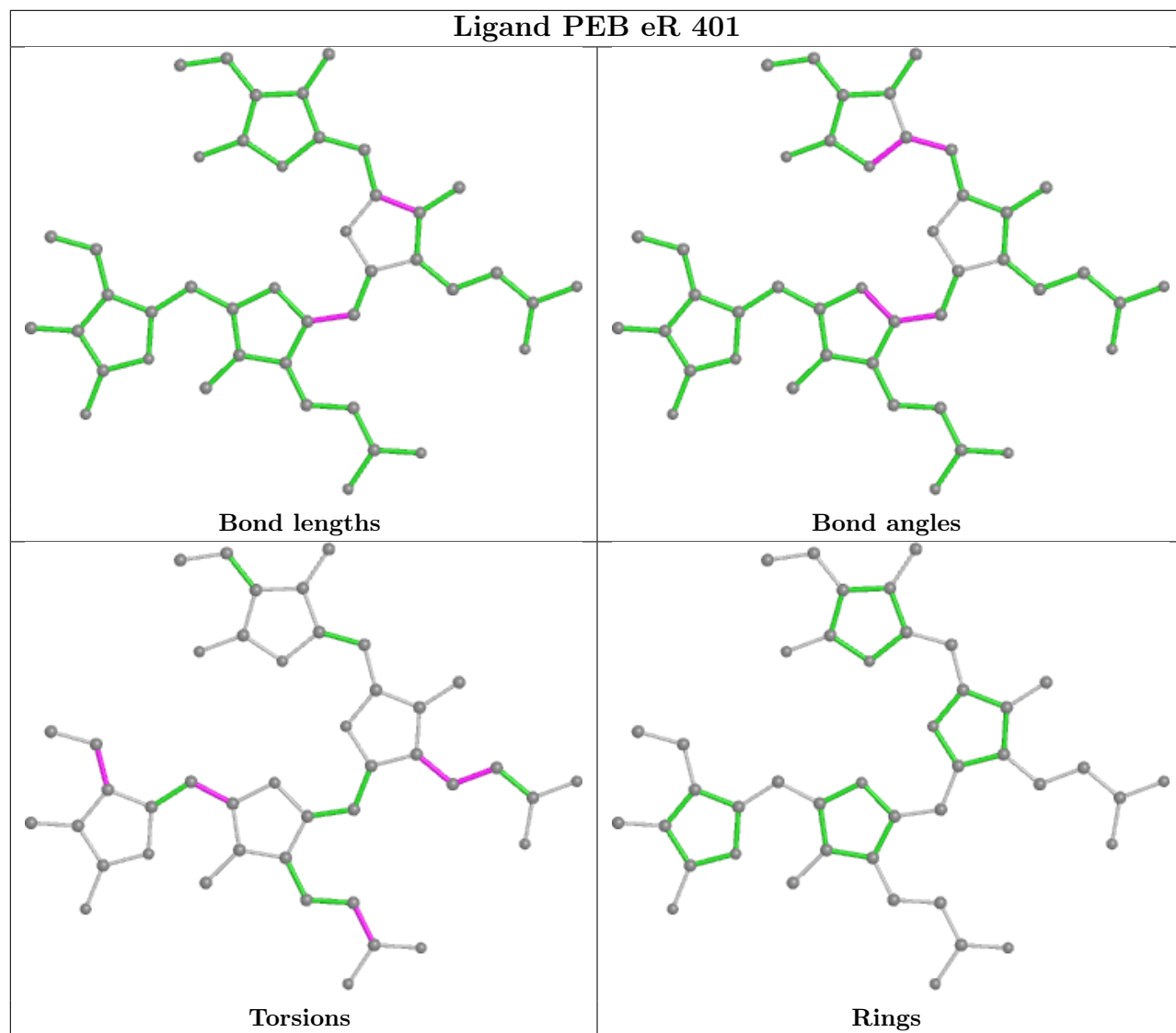


Torsions

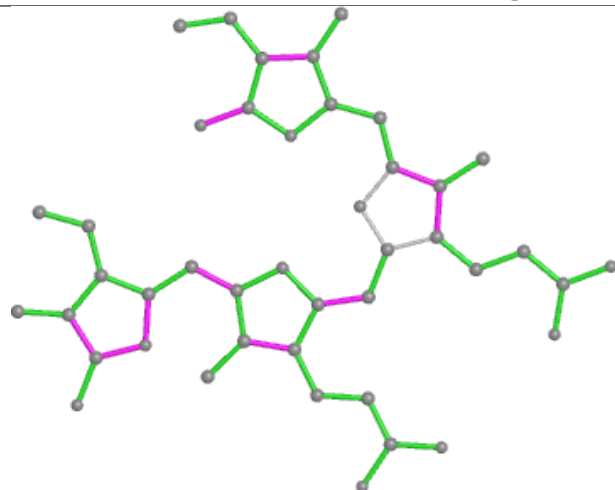


Rings

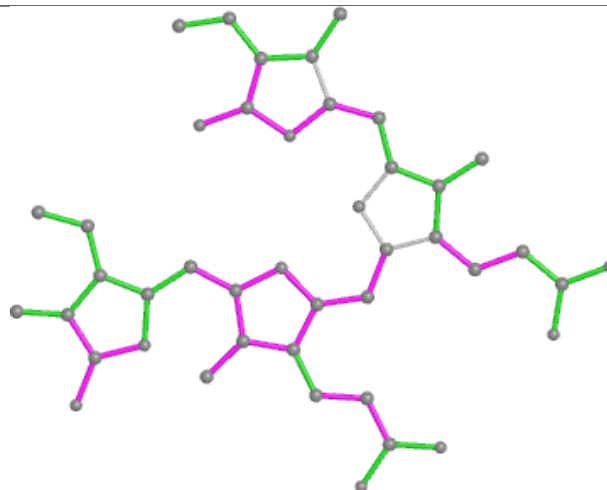




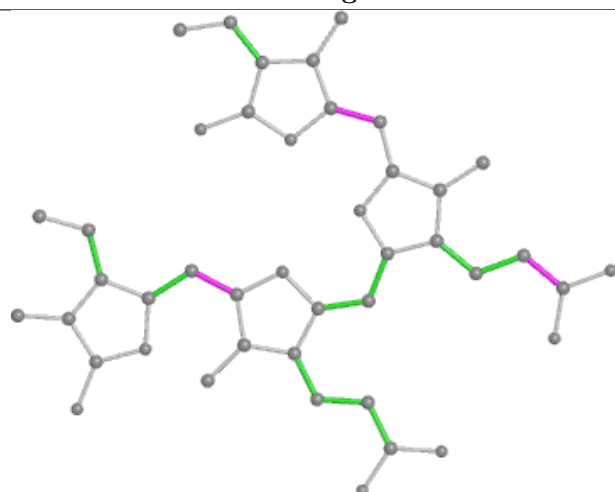
Ligand PEB ZB 201



Bond lengths



Bond angles

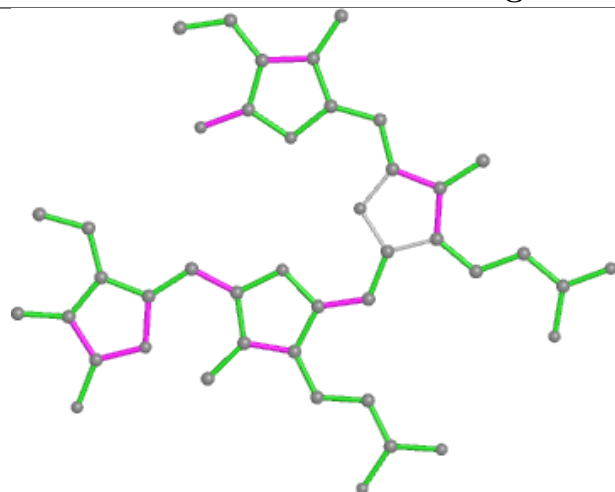


Torsions

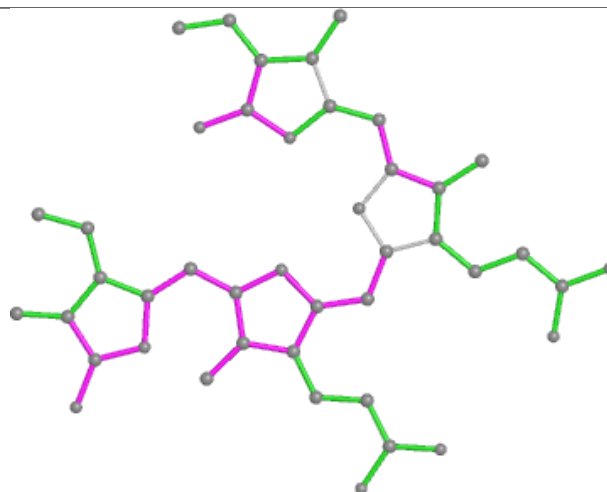


Rings

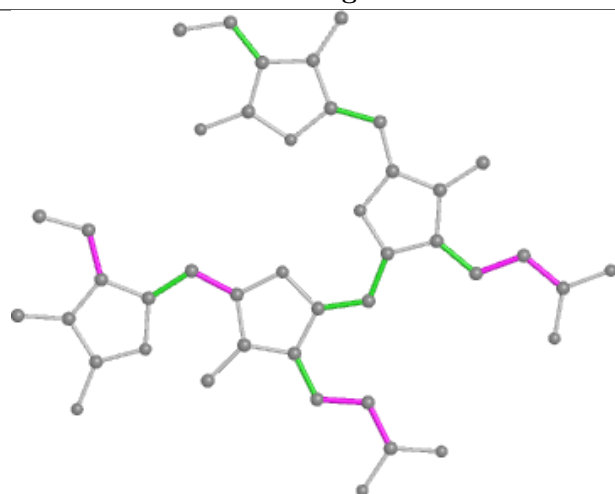
Ligand PEB bK 202



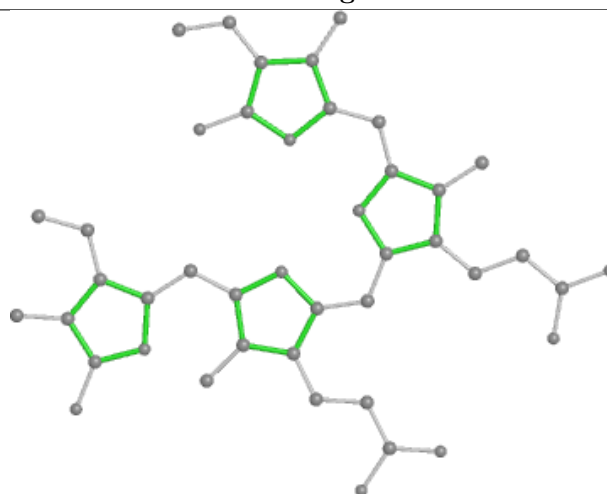
Bond lengths



Bond angles

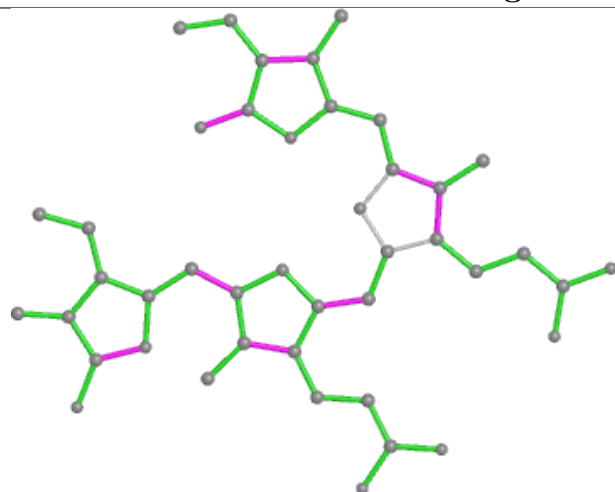


Torsions

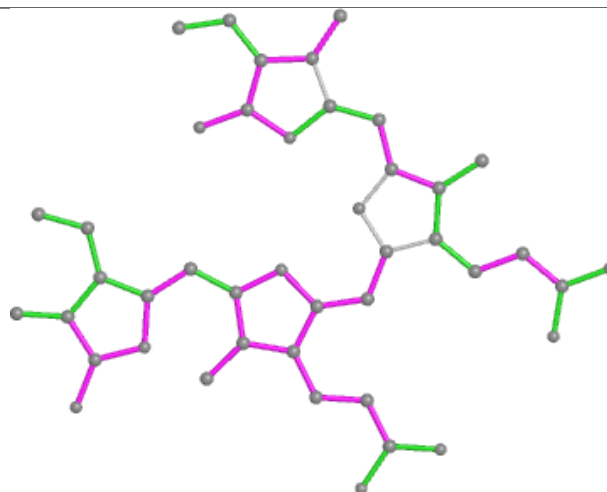


Rings

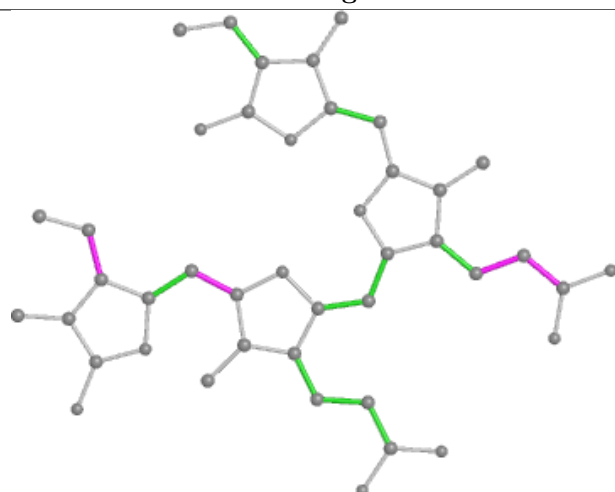
Ligand PEB PR 201



Bond lengths



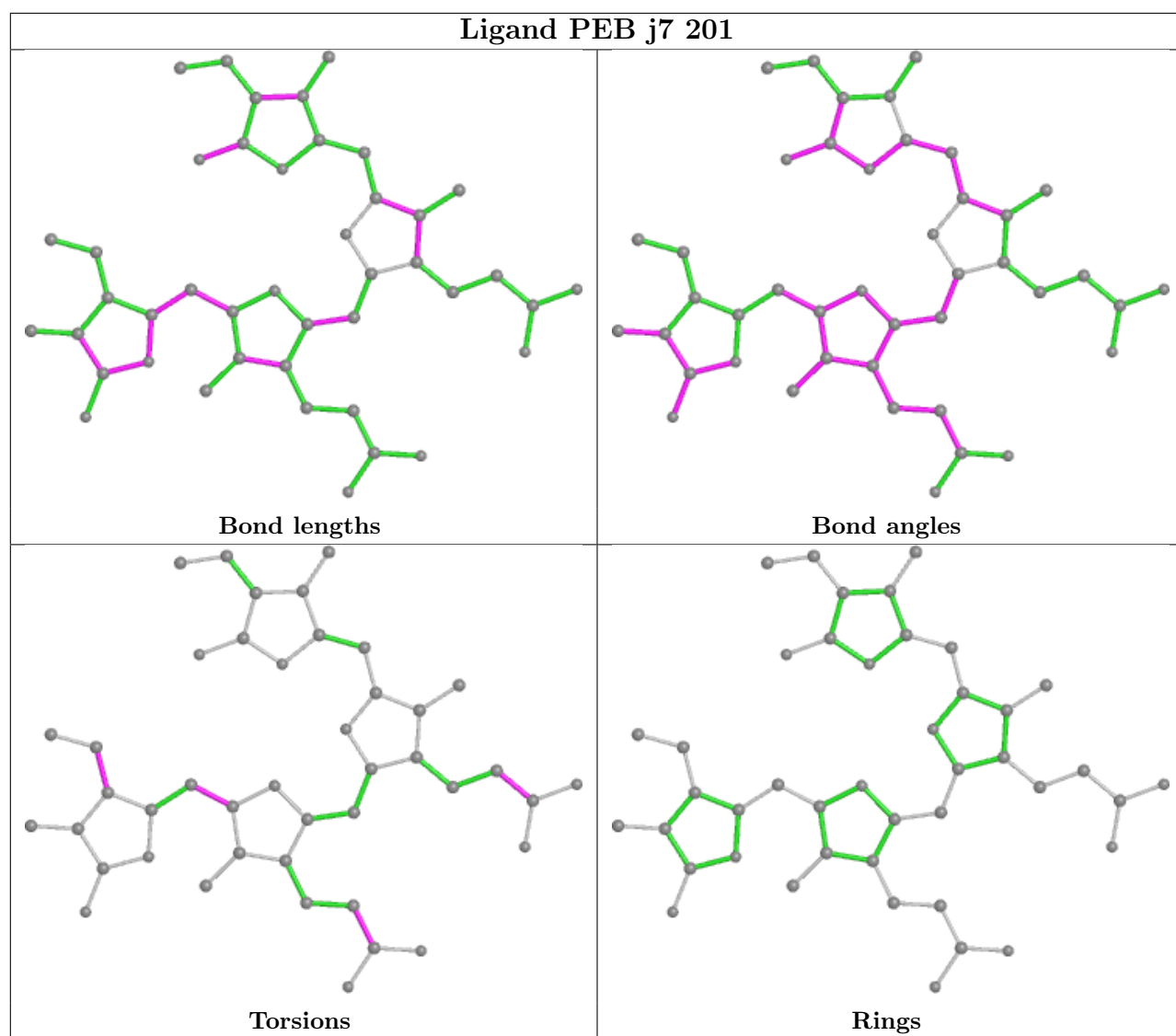
Bond angles

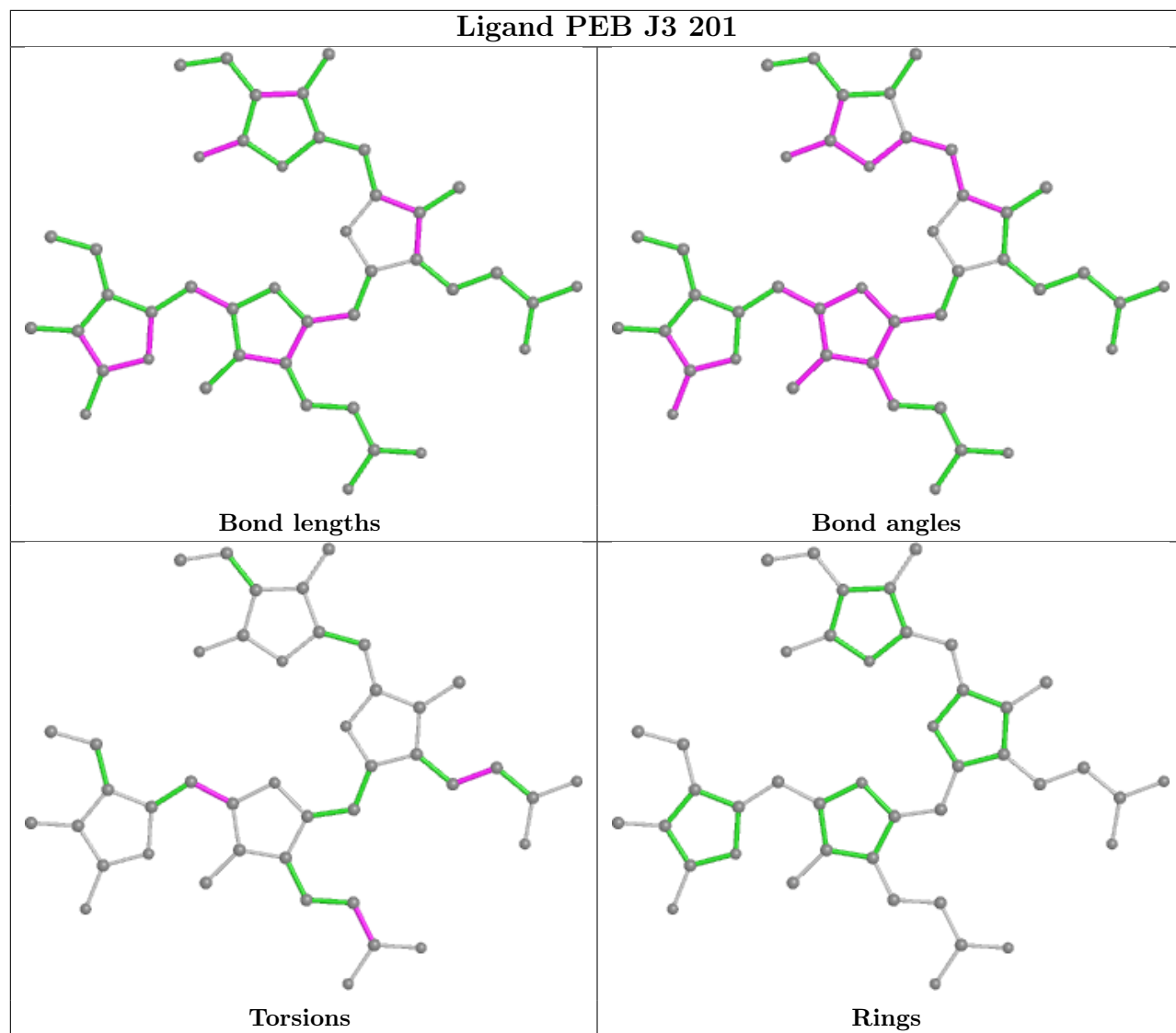


Torsions

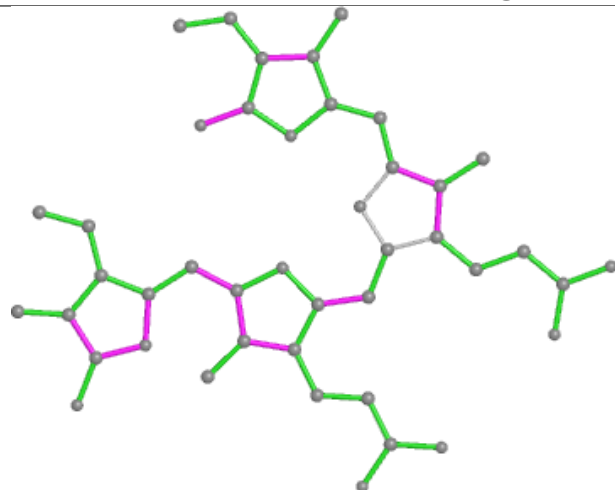


Rings

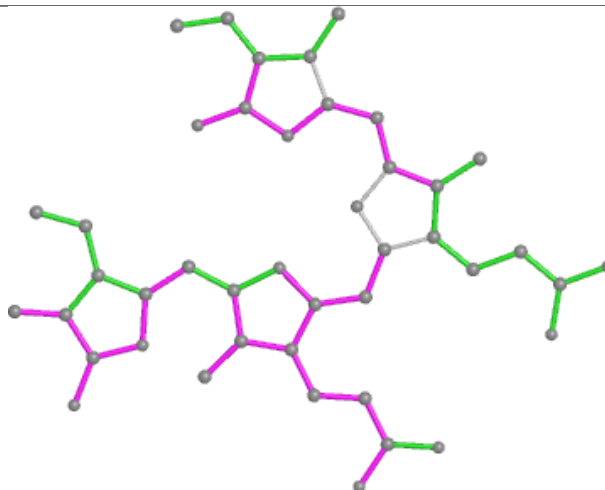




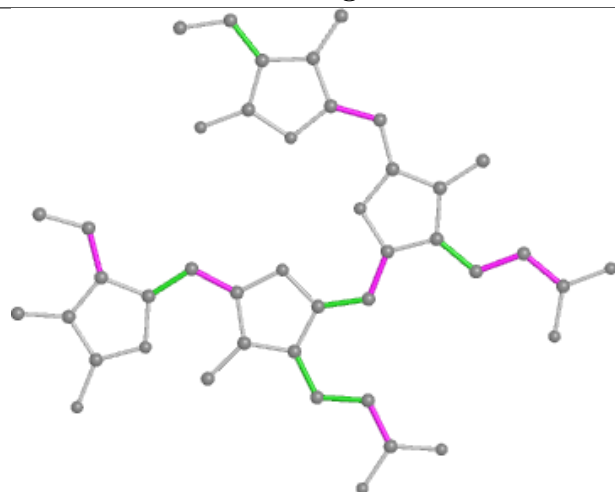
Ligand PEB mM 203



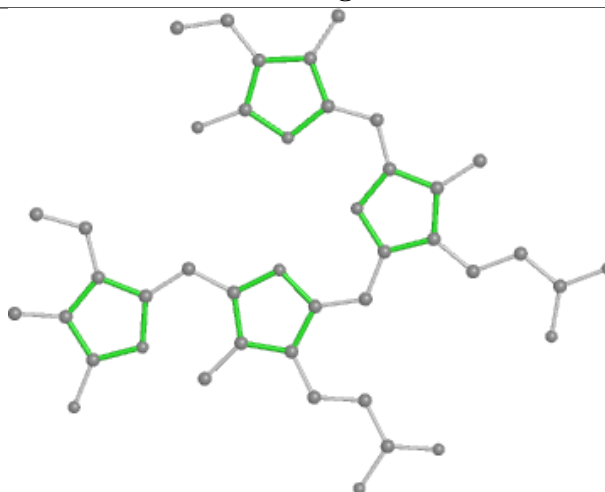
Bond lengths



Bond angles

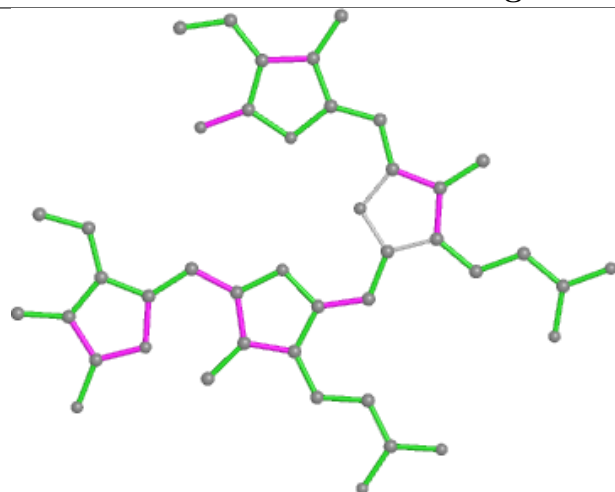


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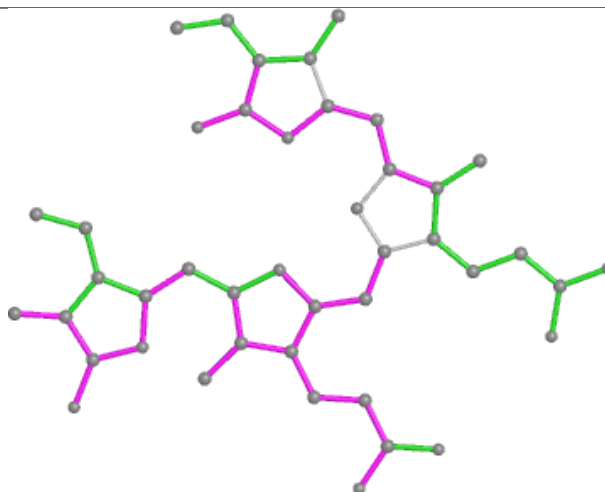


Rings

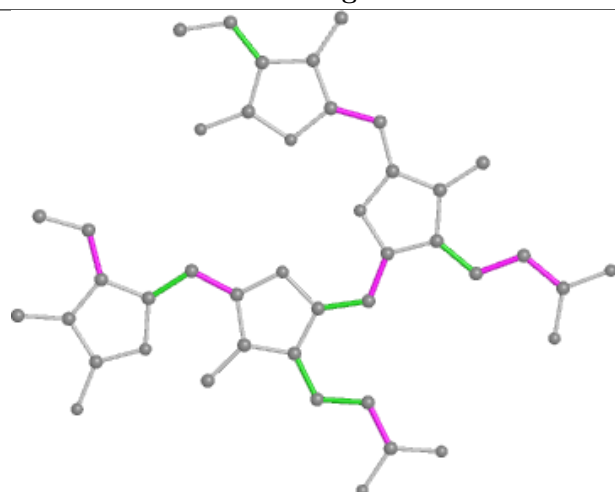
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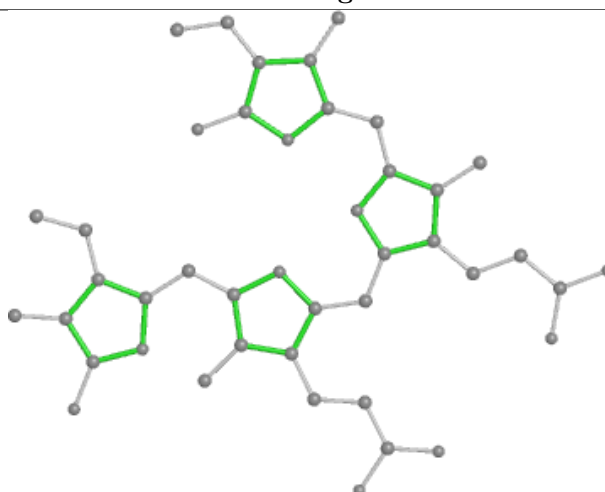
Bond lengths



Bond angles

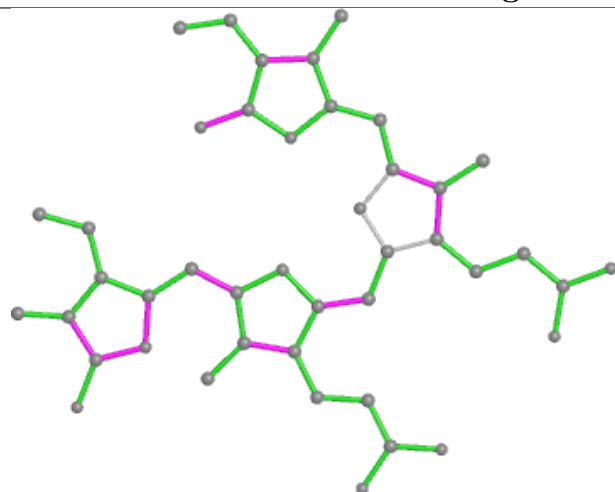


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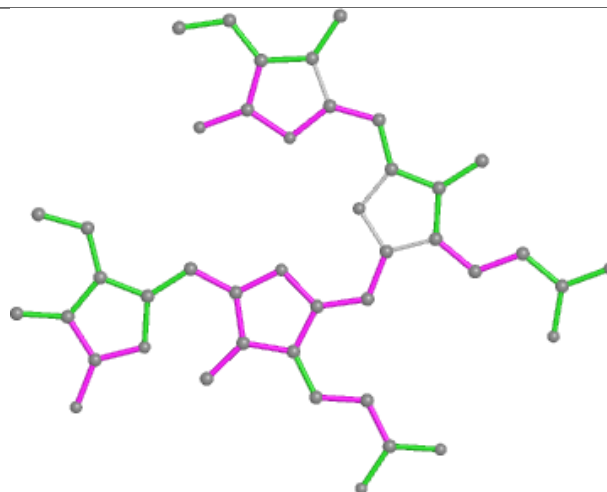


Rings

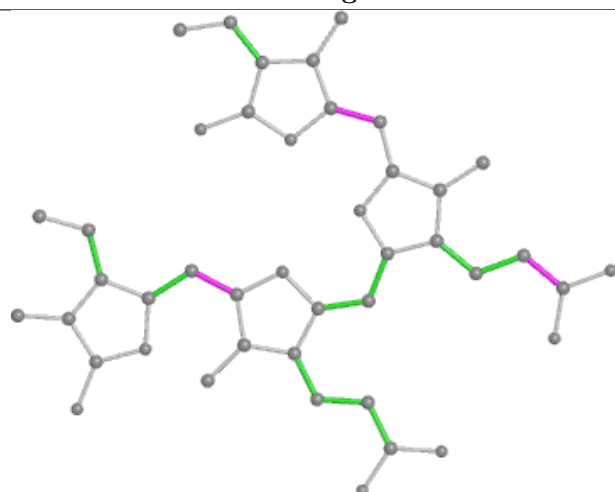
Ligand PEB mB 201



Bond lengths



Bond angles

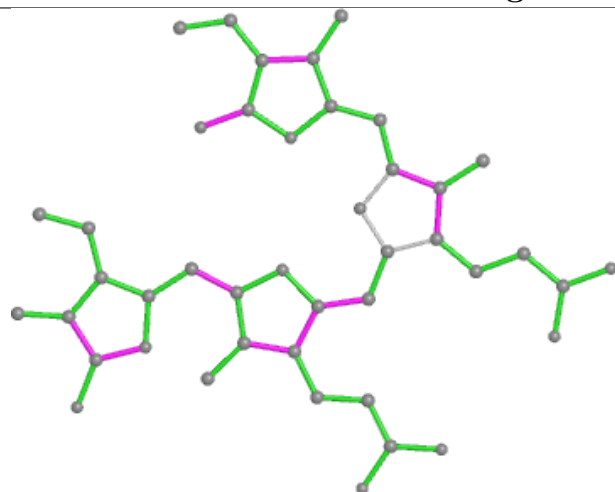


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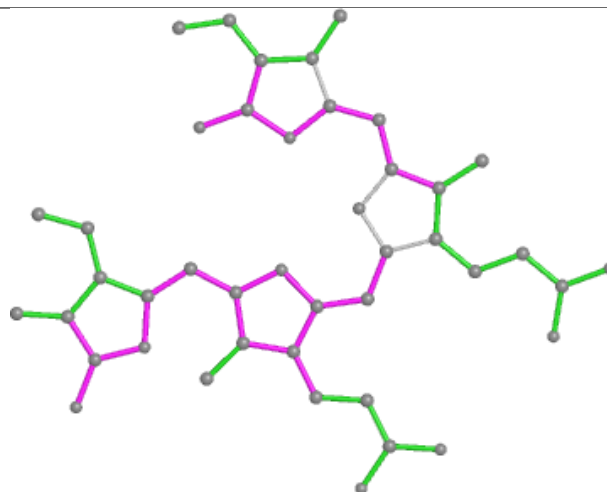


Rings

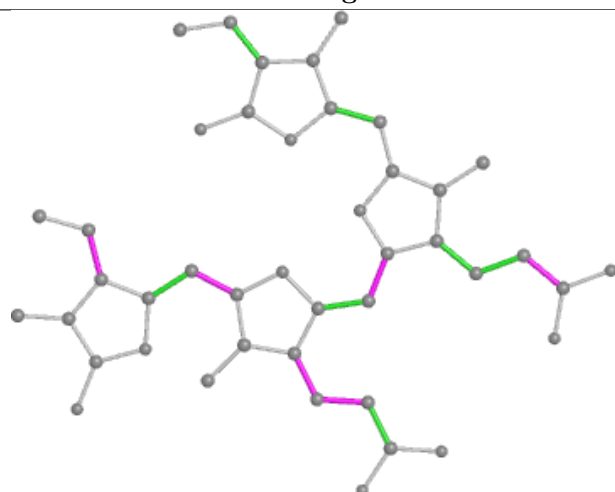
Ligand PEB JN 202



Bond lengths



Bond angles

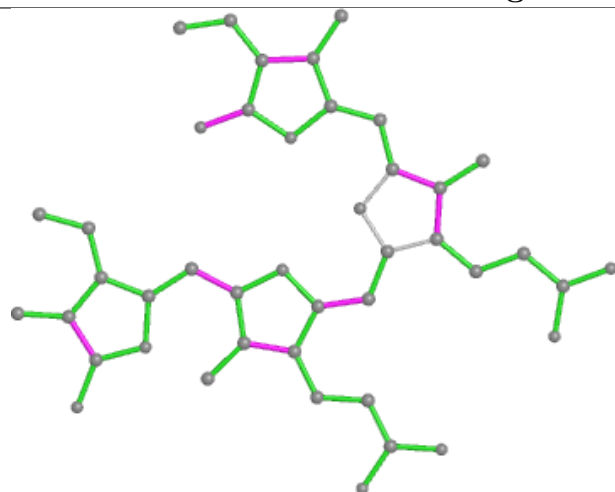


Torsions

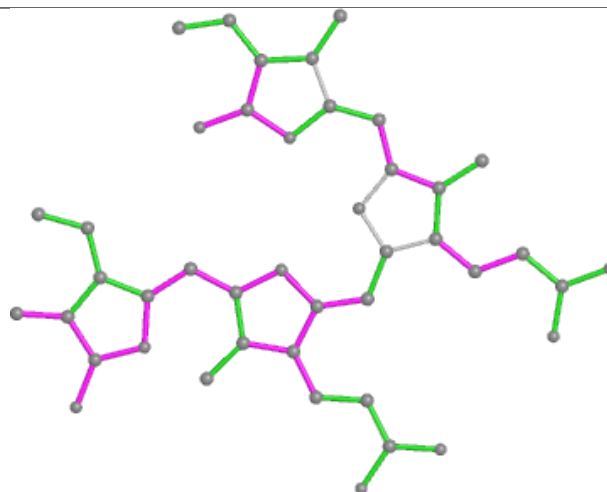


Rings

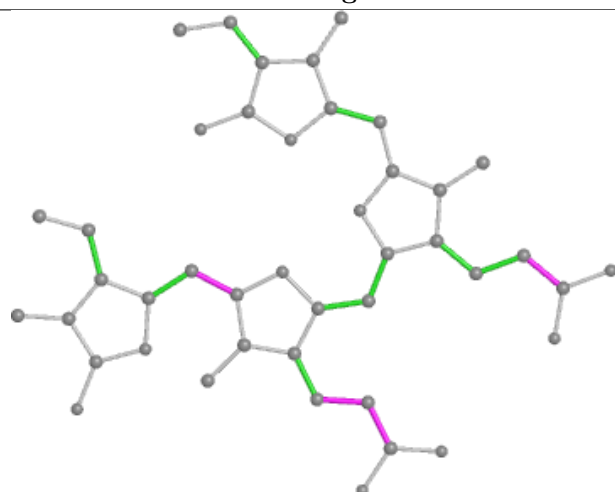
Ligand PEB DJ 201



Bond lengths



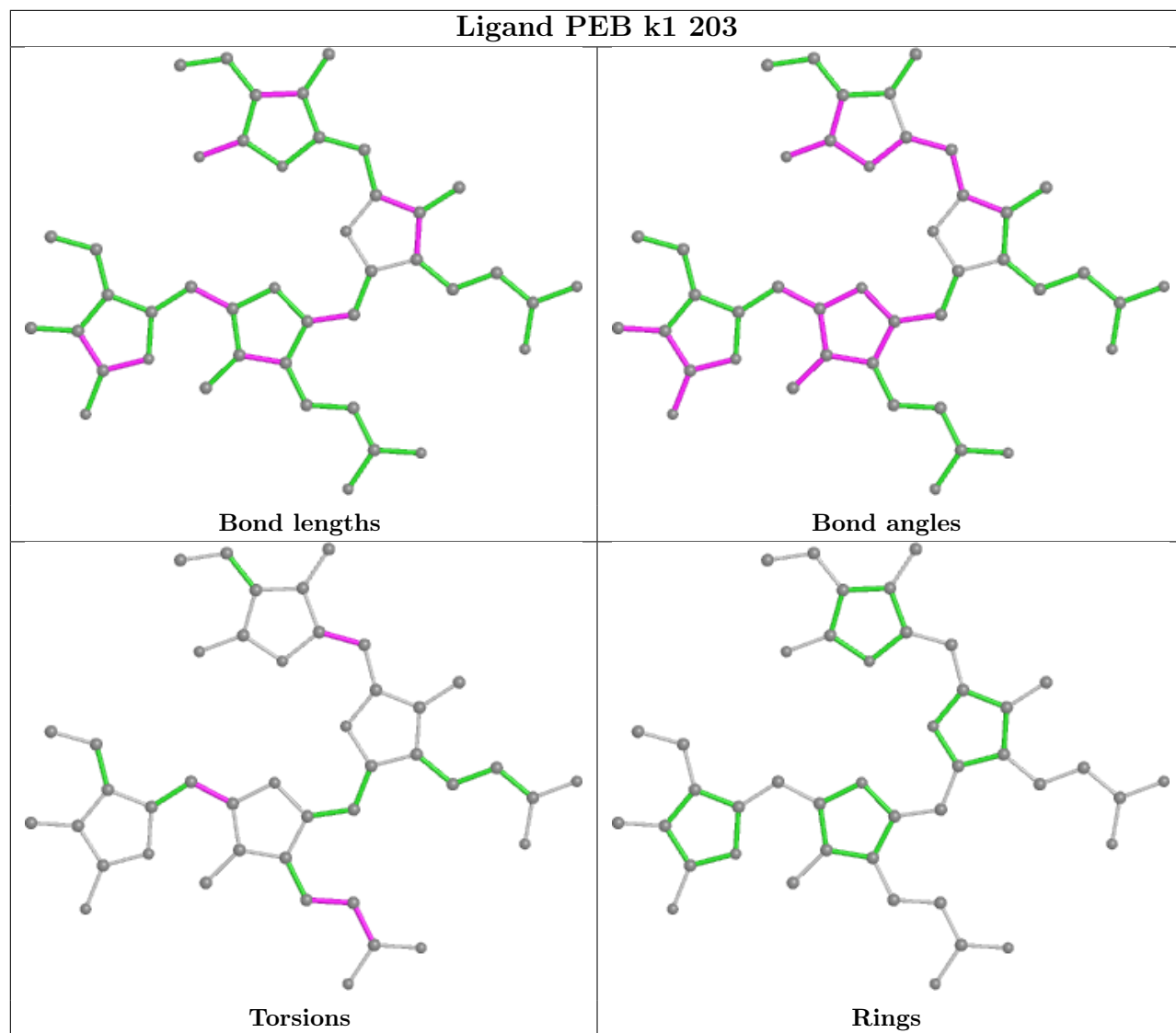
Bond angles



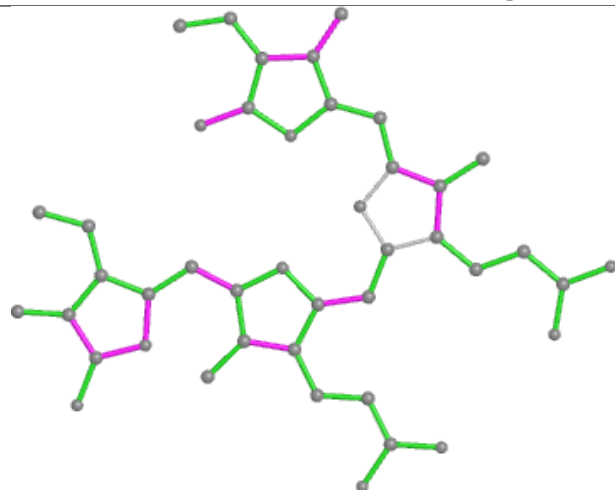
Torsions



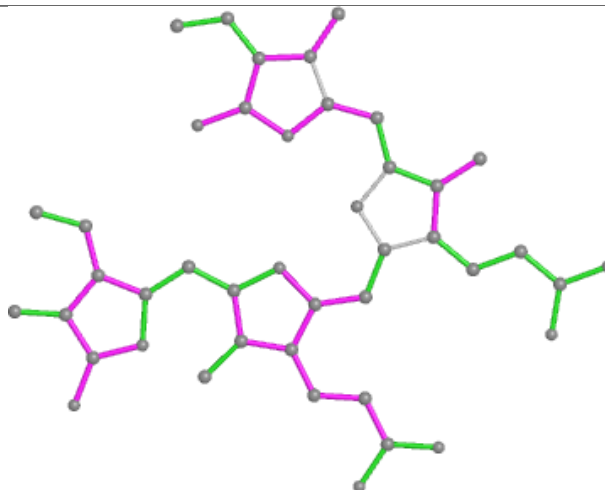
Rings



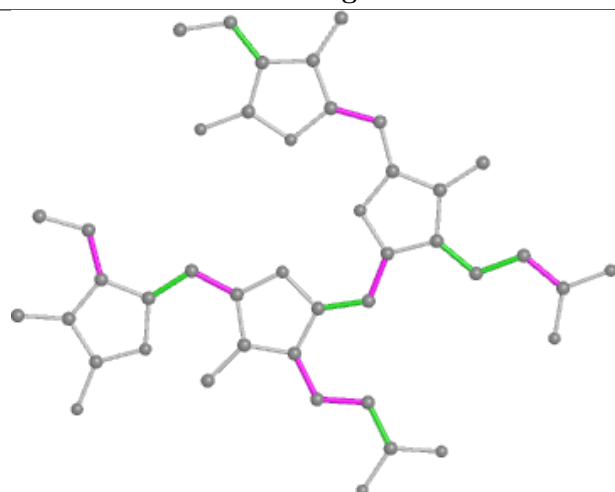
Ligand PEB L7 1002



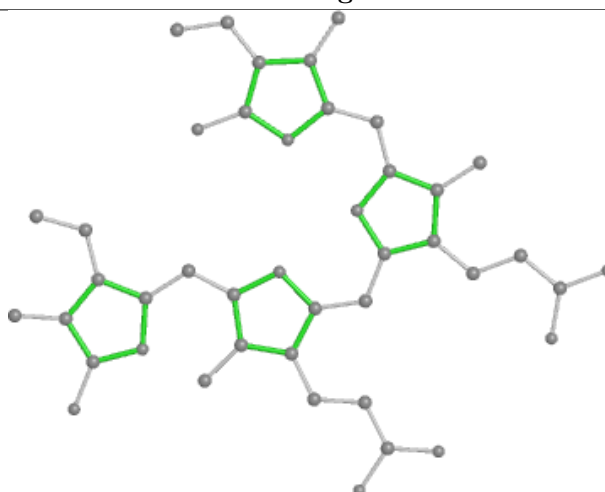
Bond lengths



Bond angles

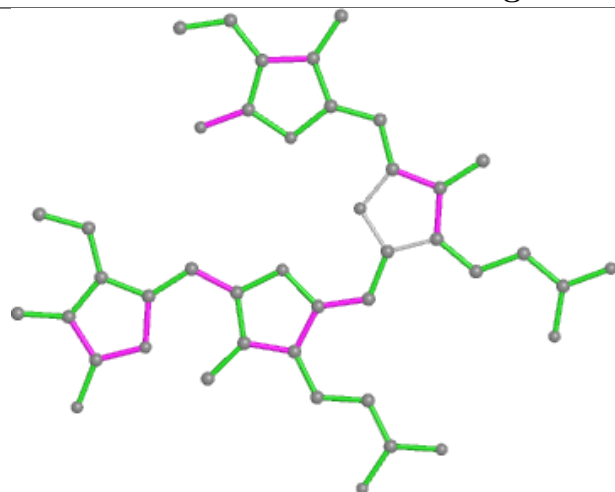


Torsions

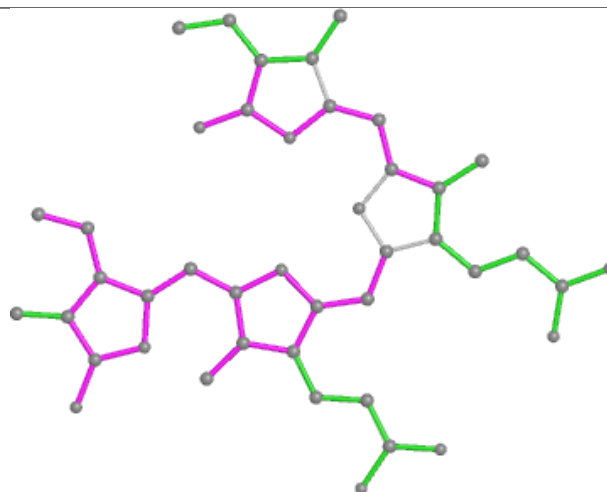


Rings

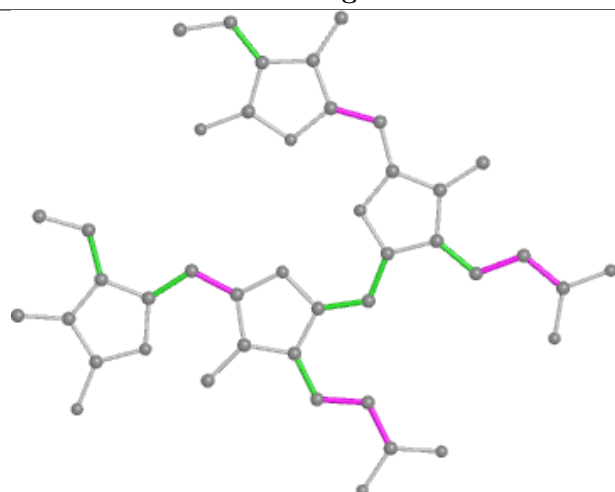
Ligand PEB AB 301



Bond lengths



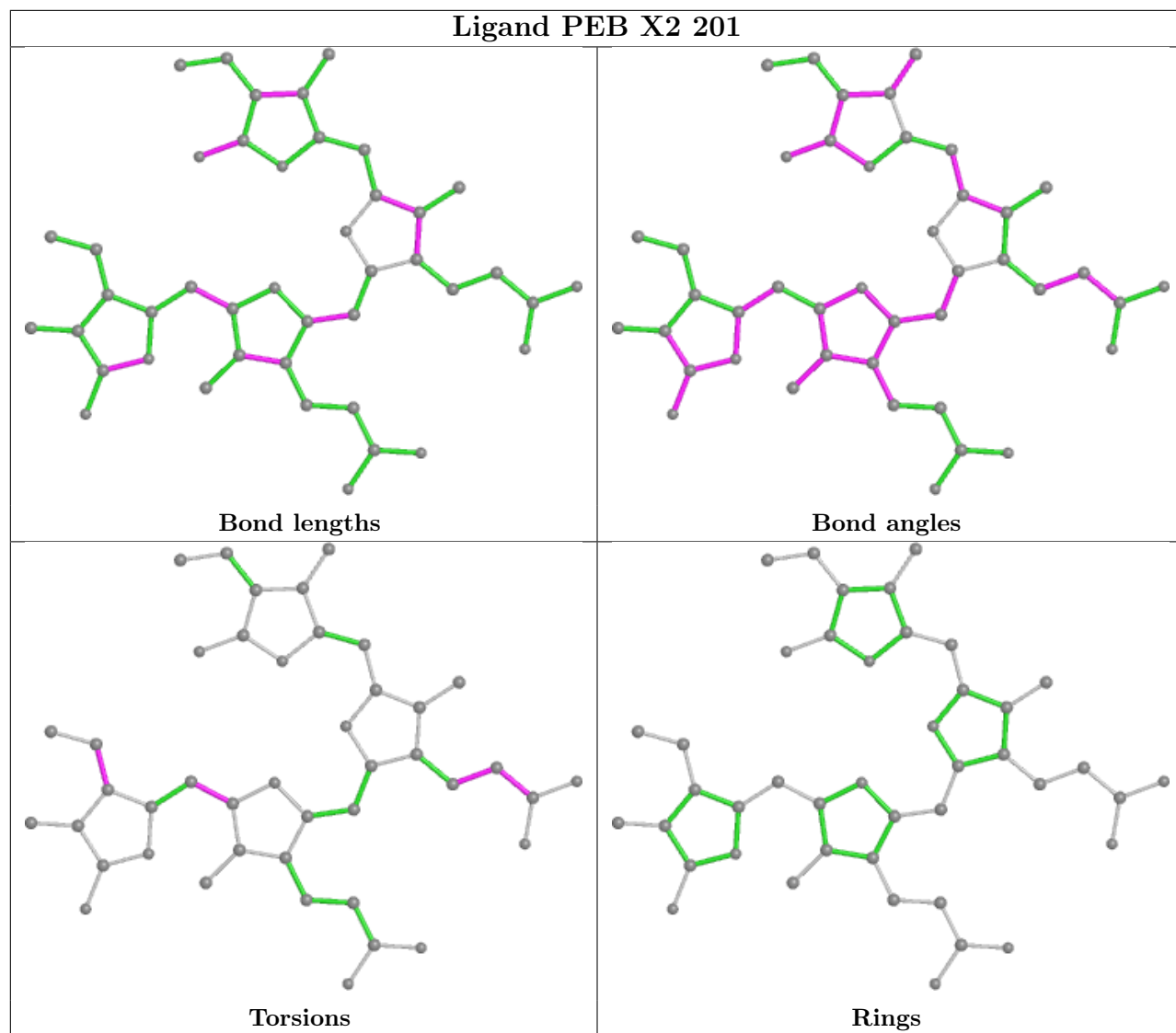
Bond angles



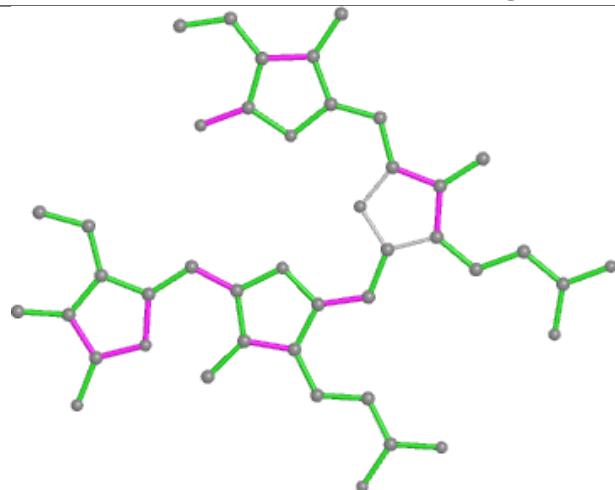
Torsions



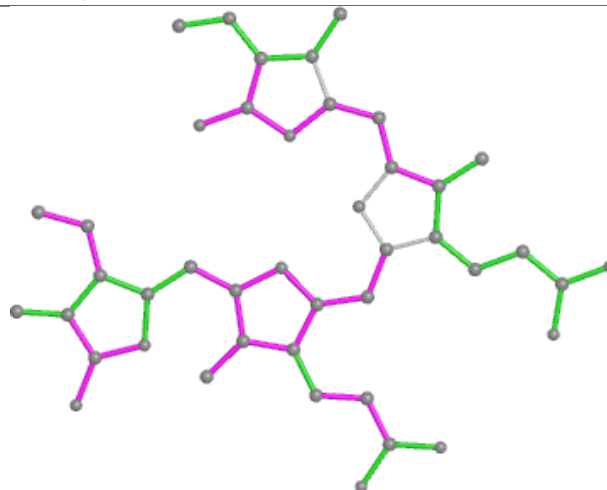
Rings



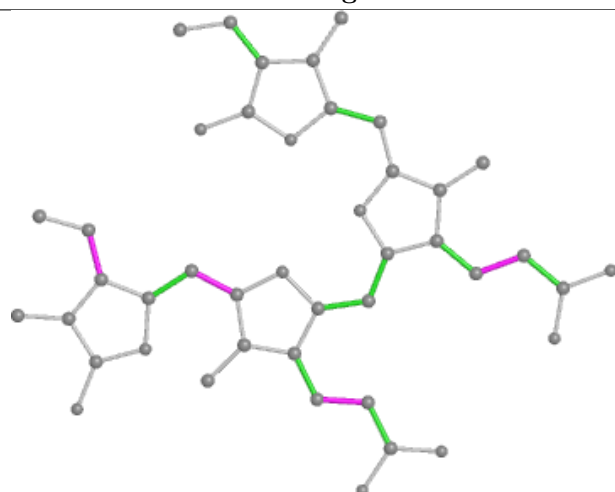
Ligand PEB DQ 202



Bond lengths



Bond angles

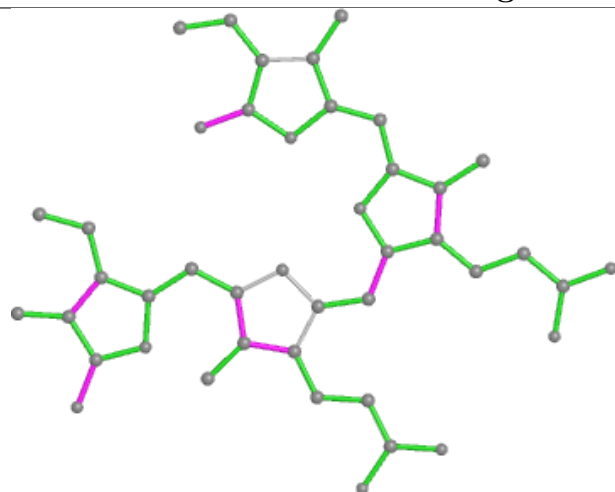


Torsions

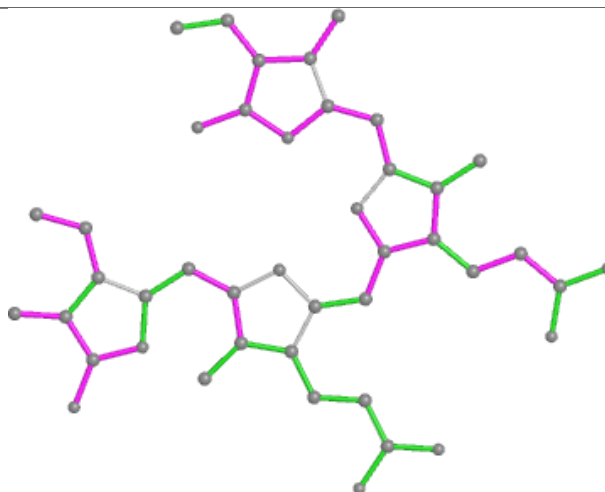


Rings

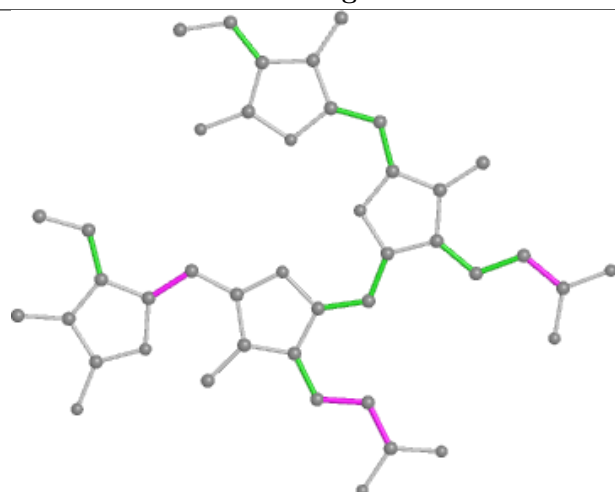
Ligand PUB AM 305



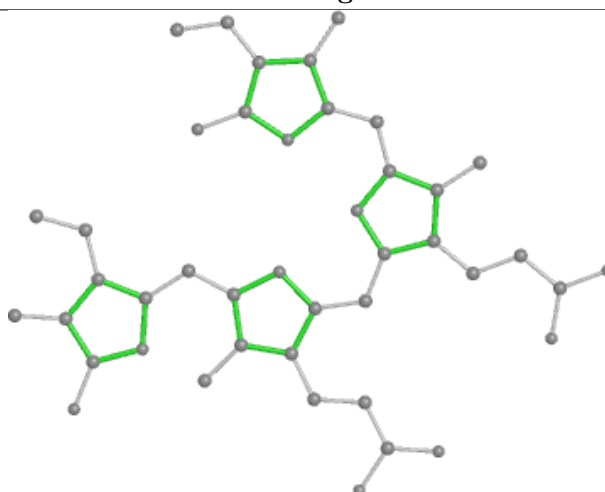
Bond lengths



Bond angles

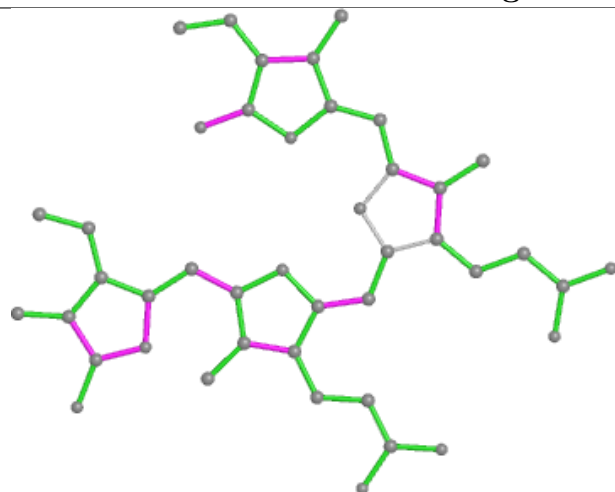


Torsions

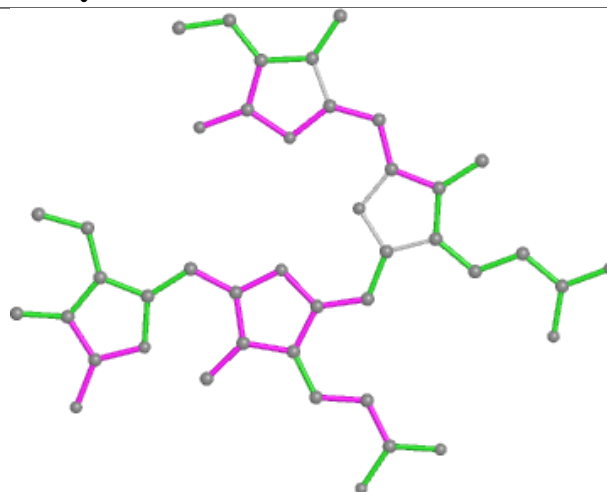


Rings

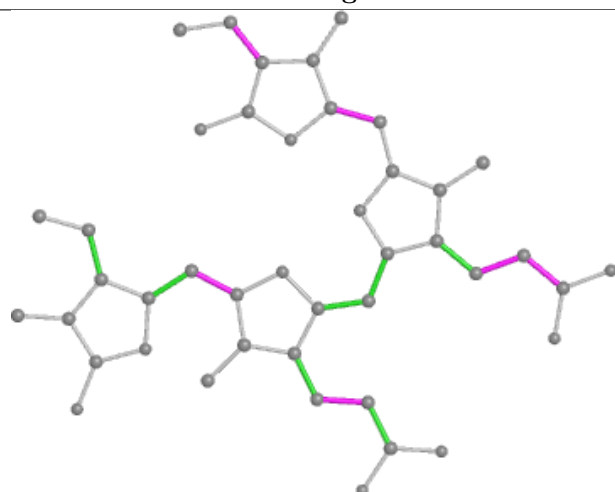
Ligand PEB DQ 201



Bond lengths



Bond angles

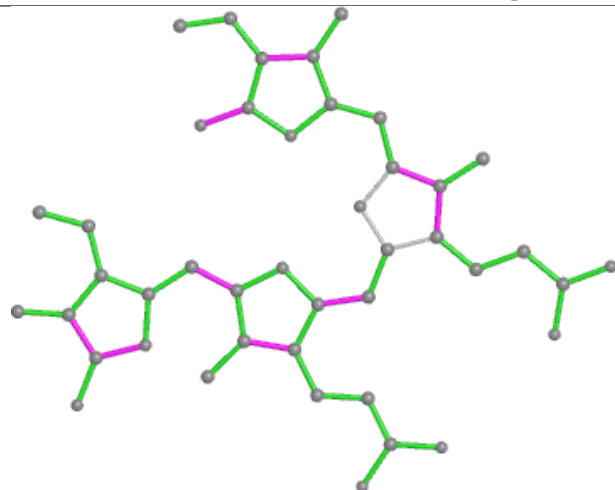


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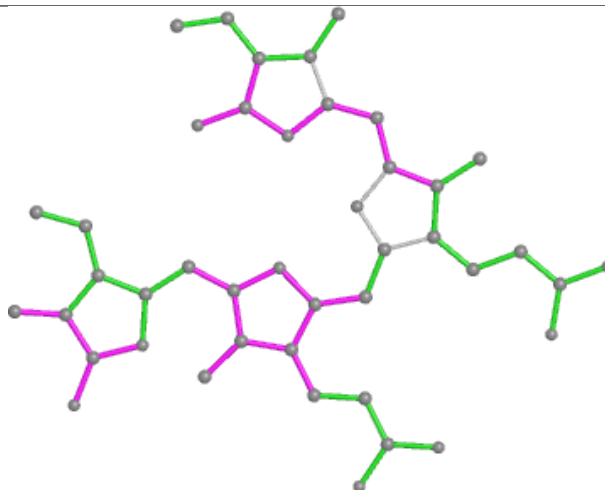


Rings

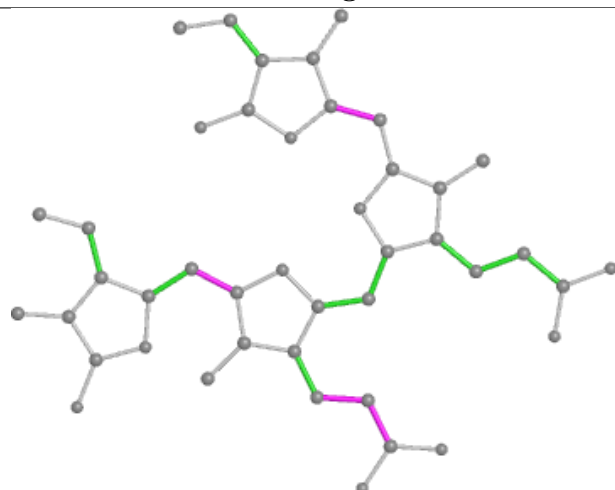
Ligand PEB m1 202



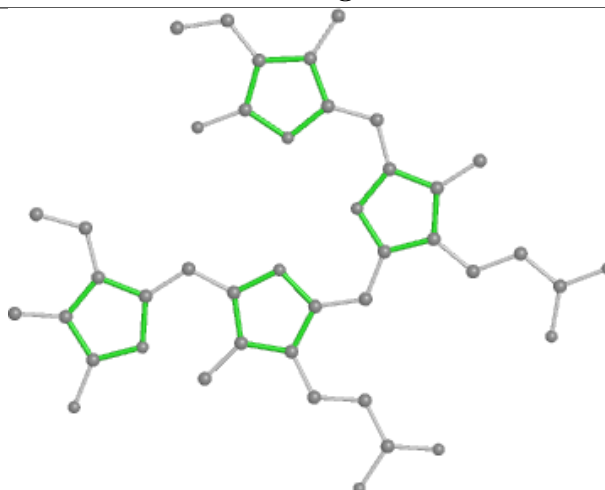
Bond lengths



Bond angles

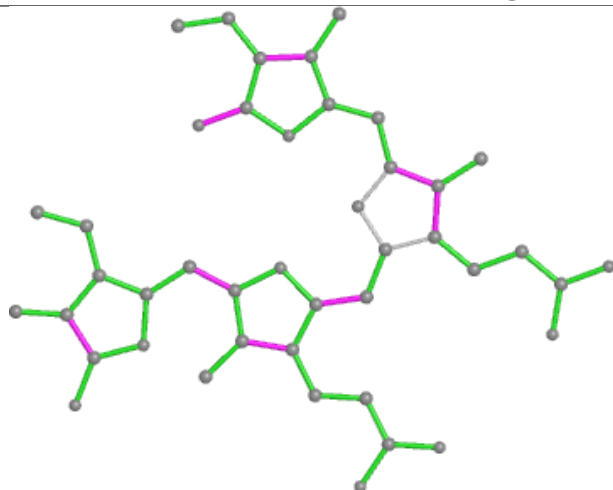


Torsions

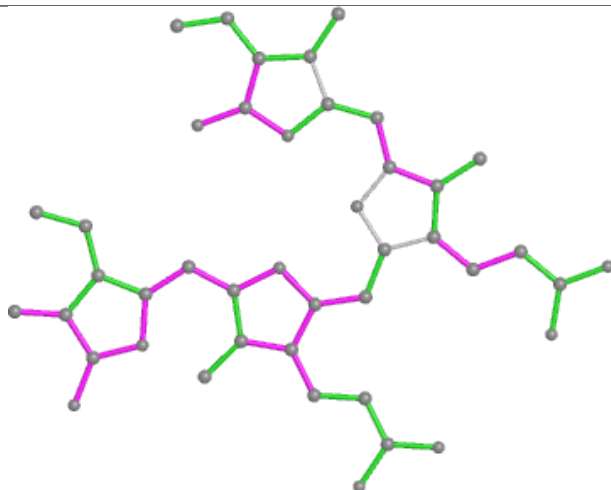


Rings

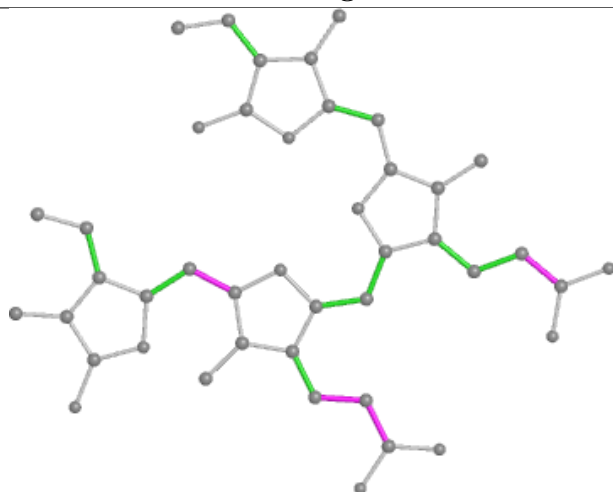
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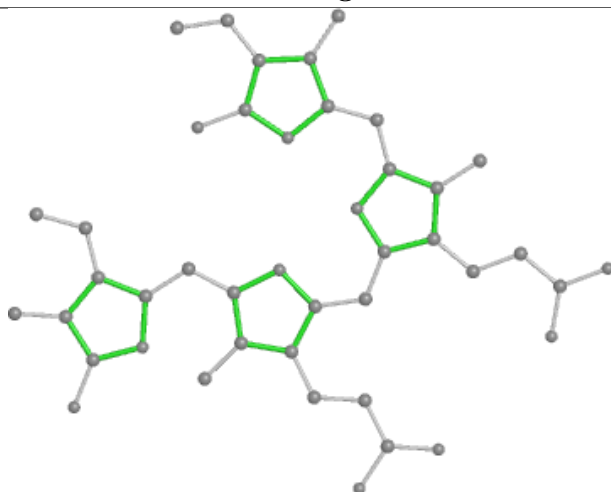
Bond lengths



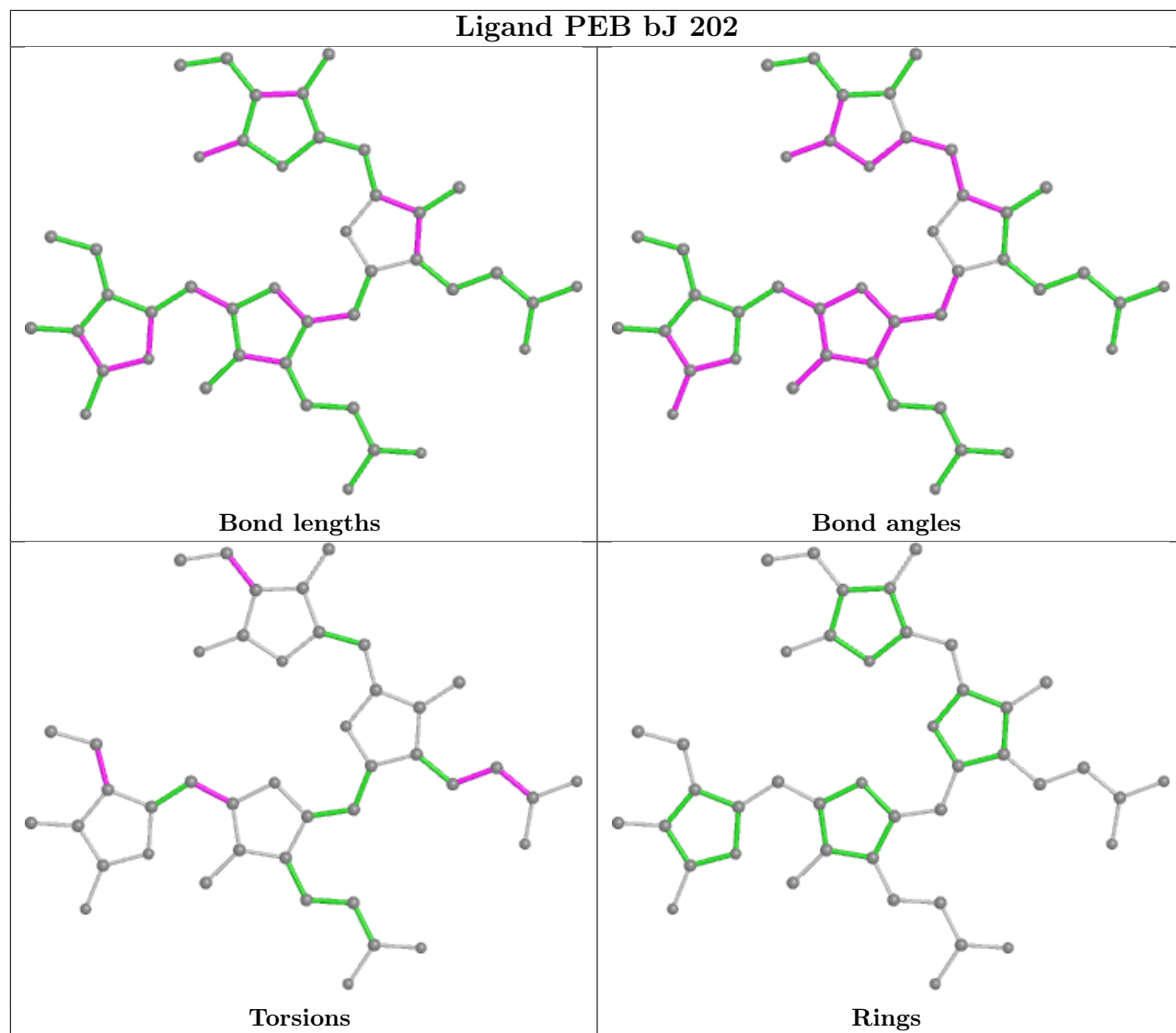
Bond angles



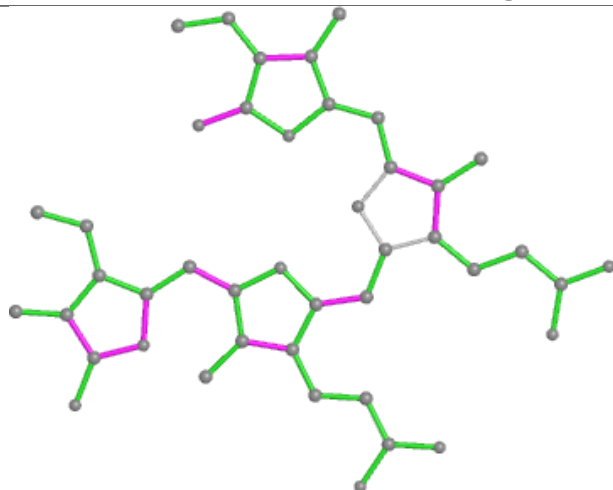
Torsions



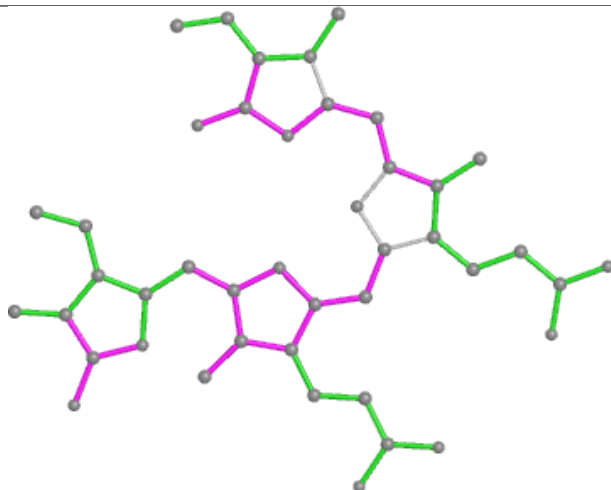
Rings



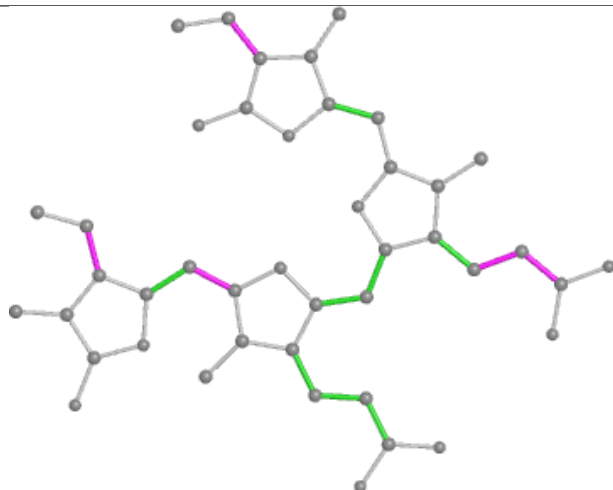
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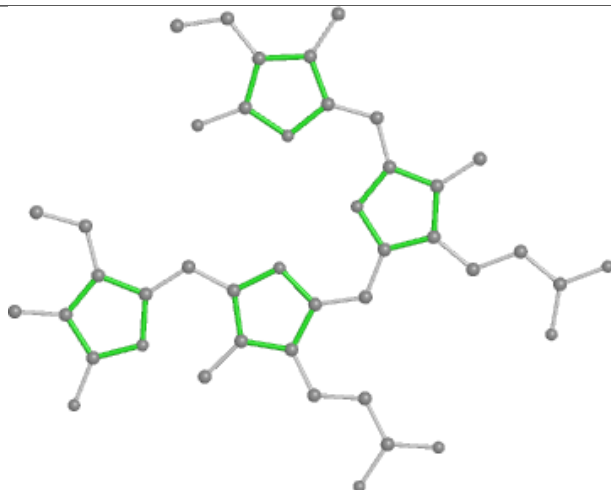
Bond lengths



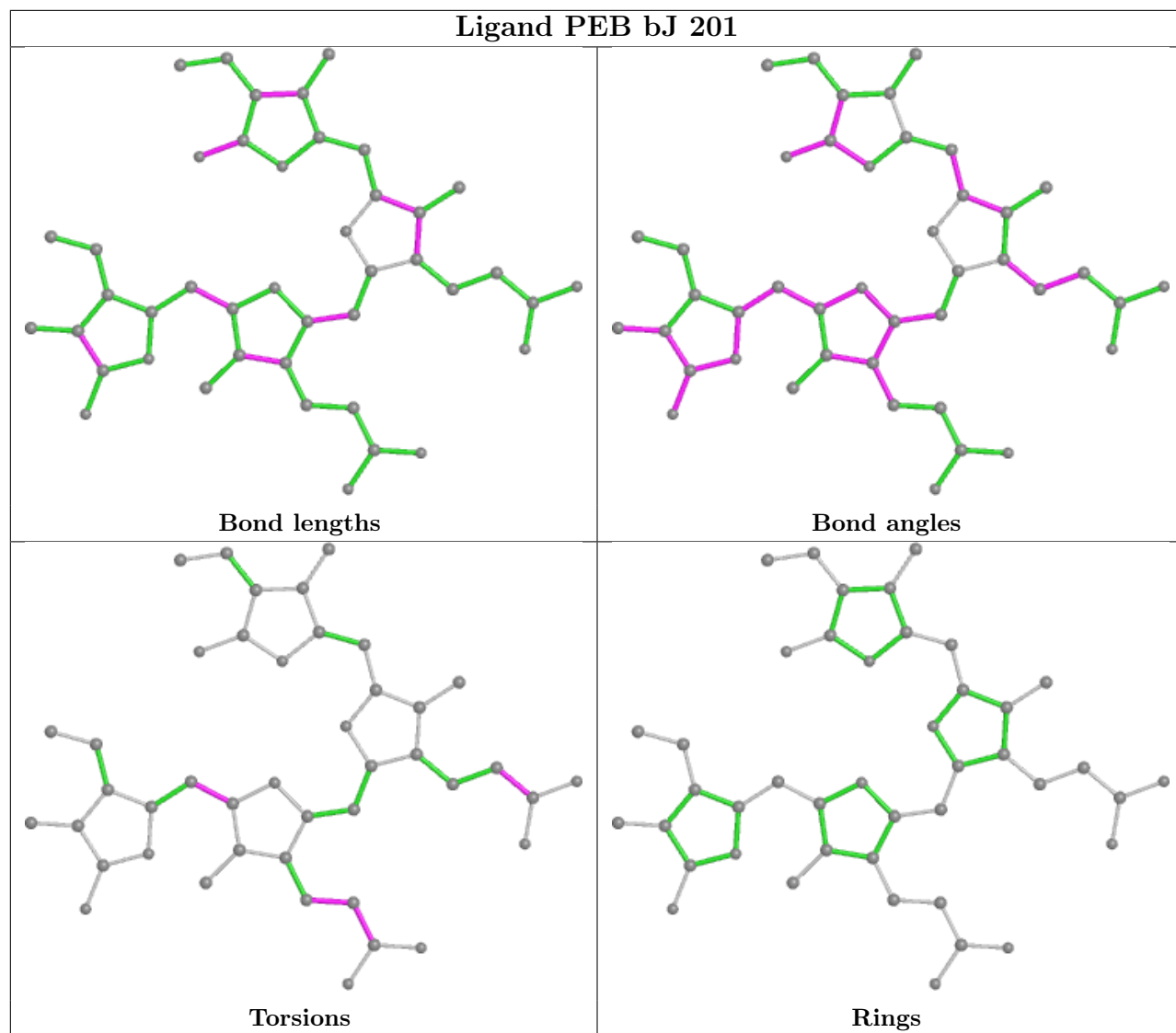
Bond angles

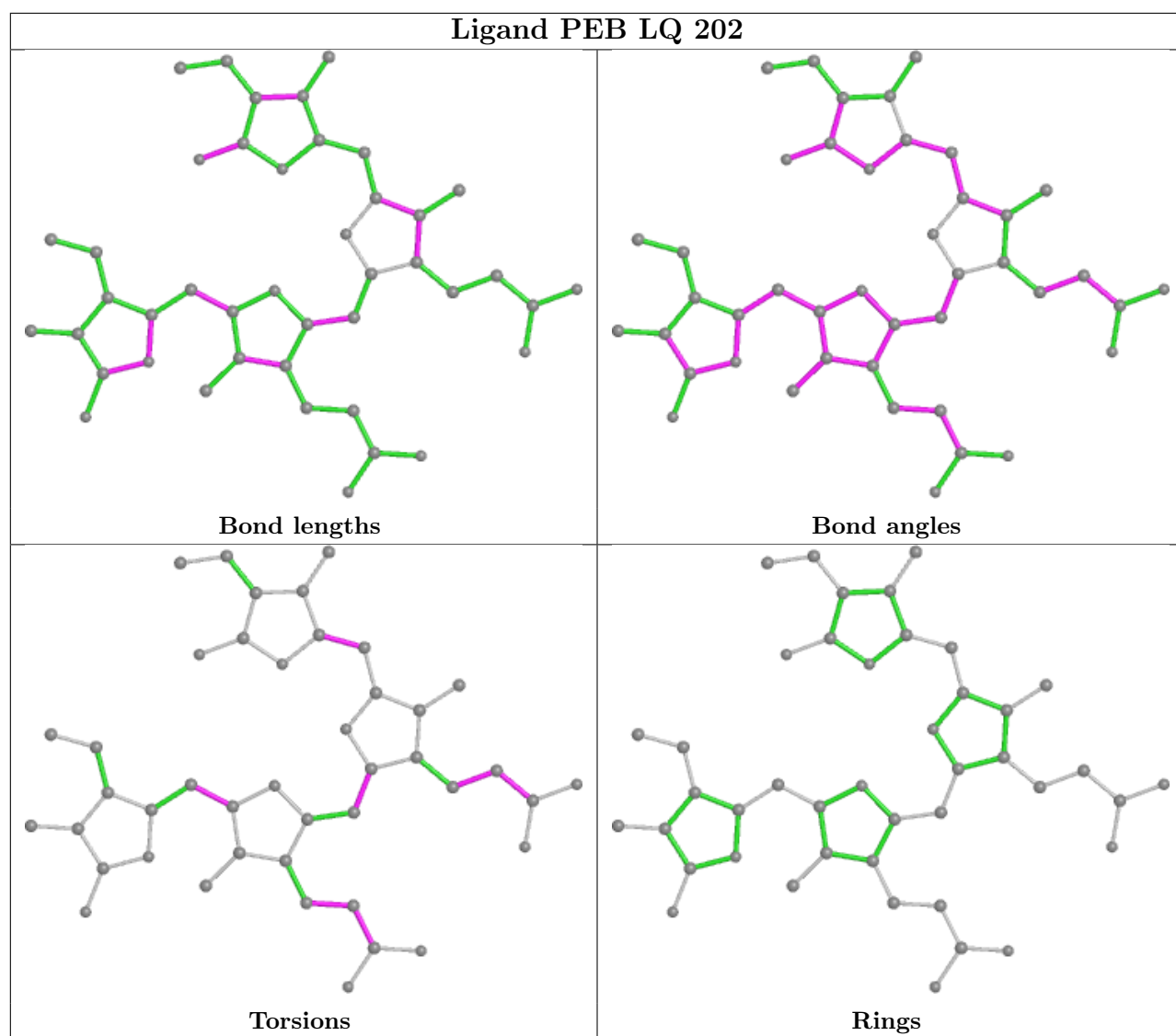


Torsions

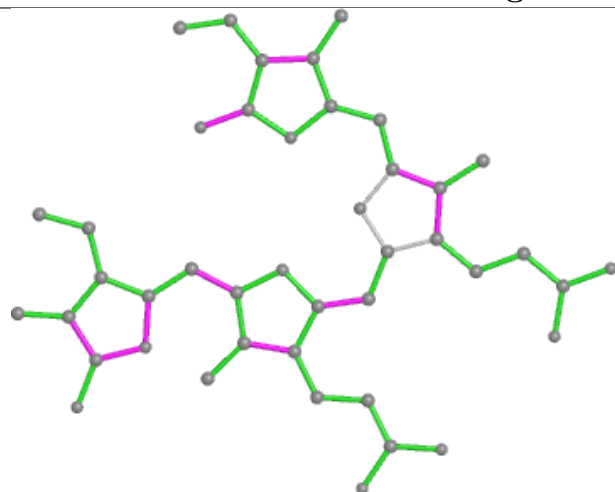


Rings

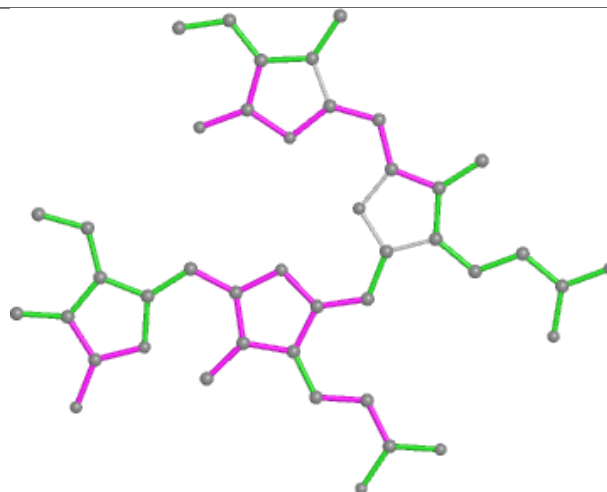




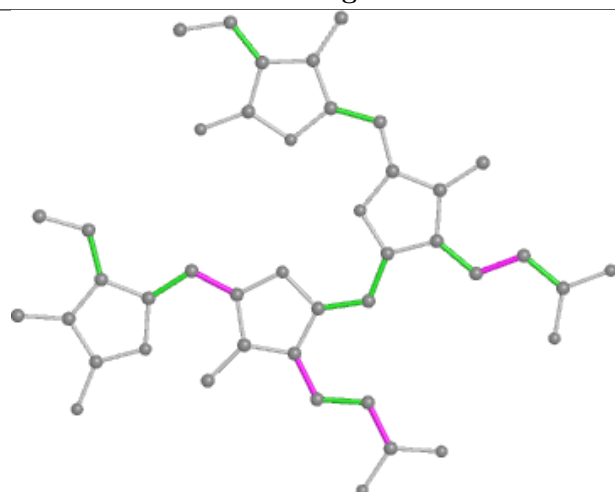
Ligand PEB kK 201



Bond lengths



Bond angles

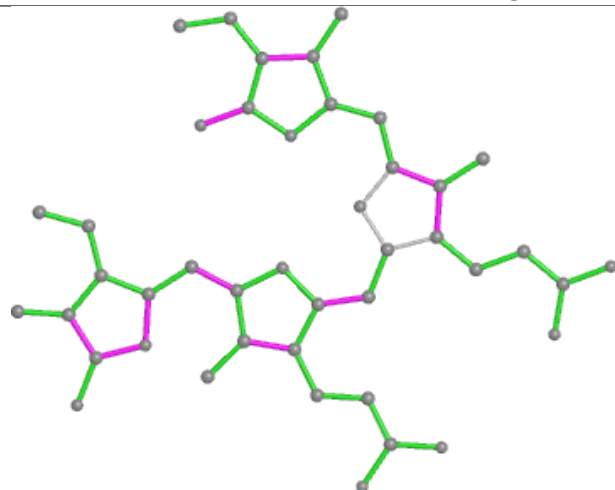


Torsions

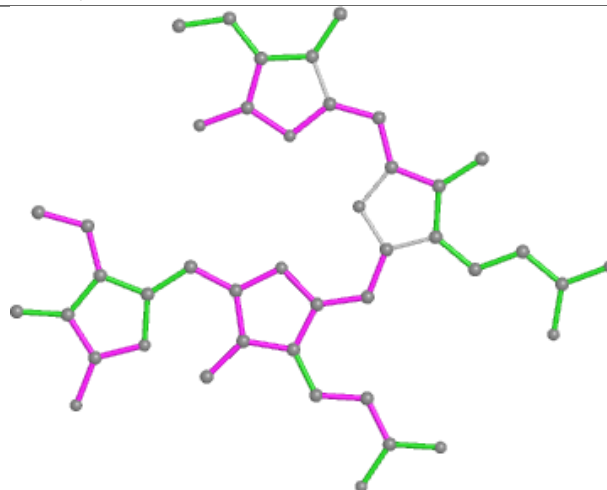


Rings

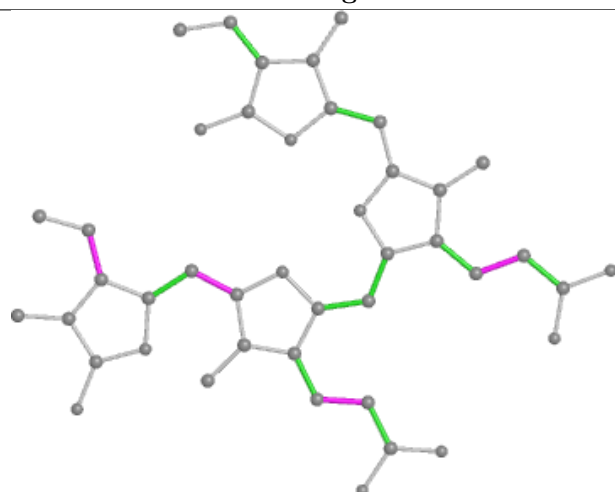
Ligand PEB LQ 201



Bond lengths



Bond angles

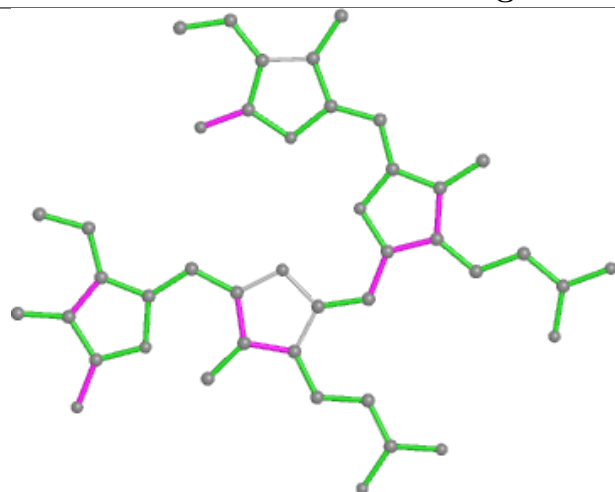


Torsions

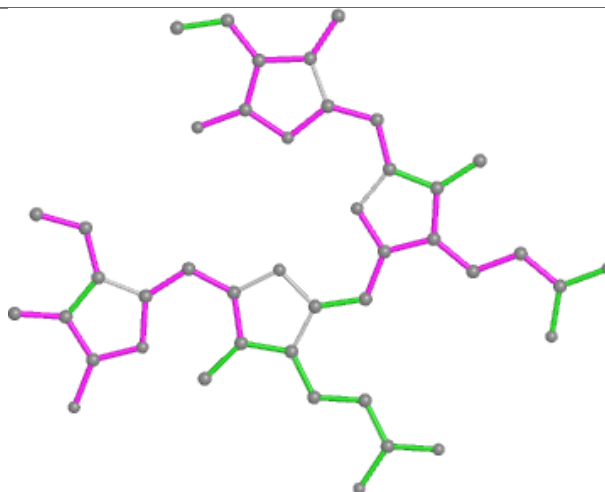


Rings

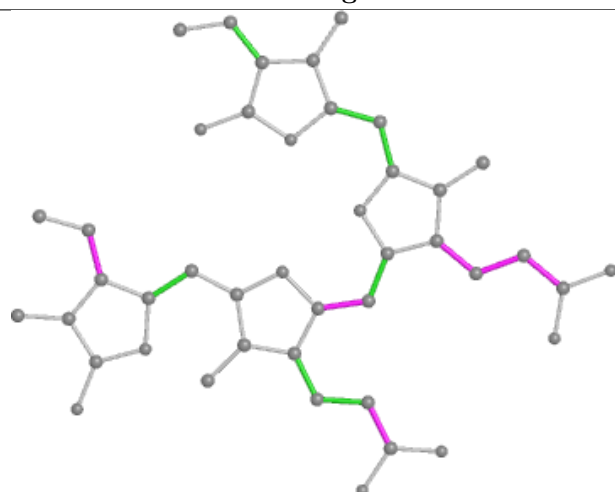
Ligand PUB MG 403



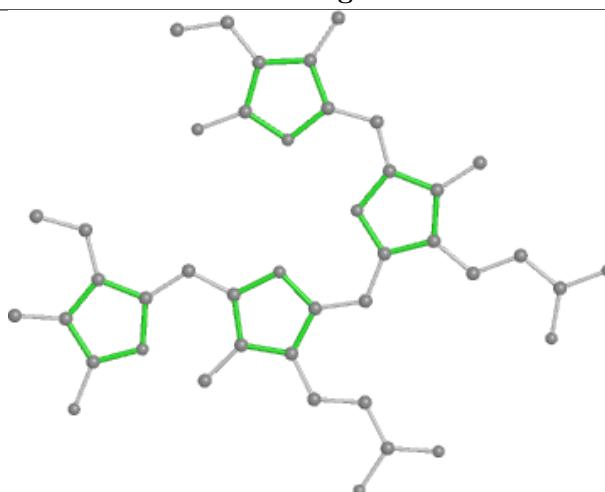
Bond lengths



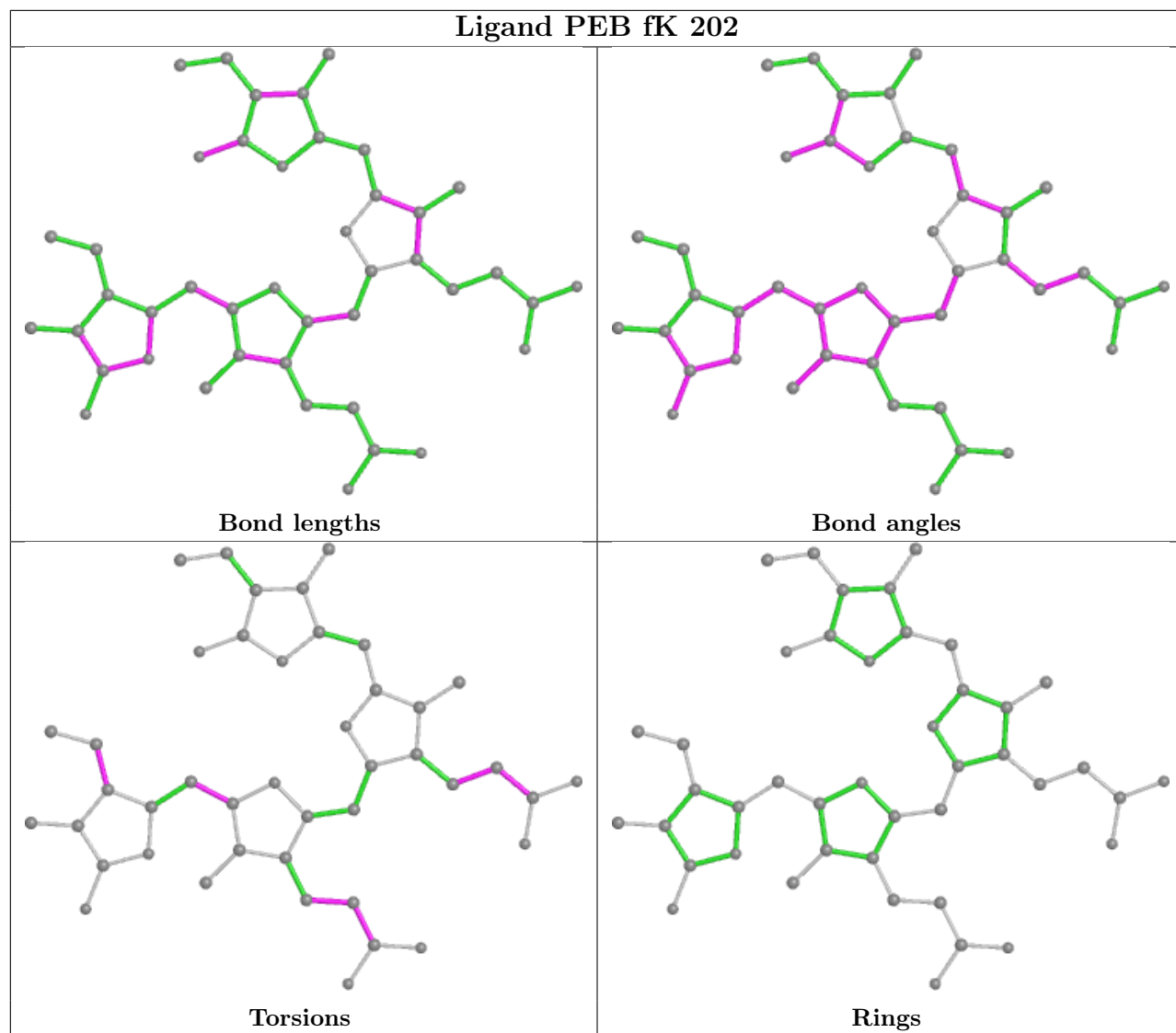
Bond angles

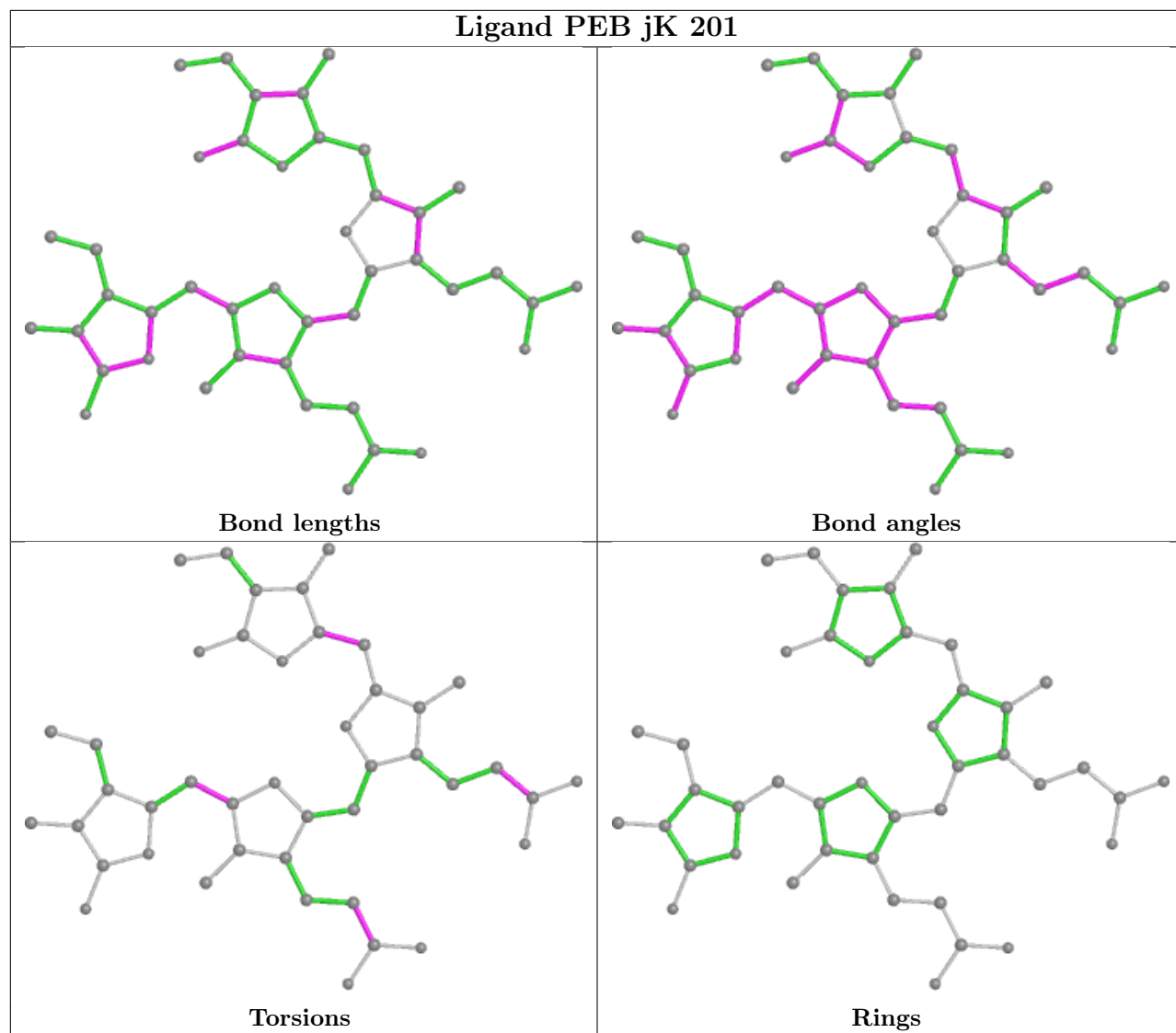


Torsions

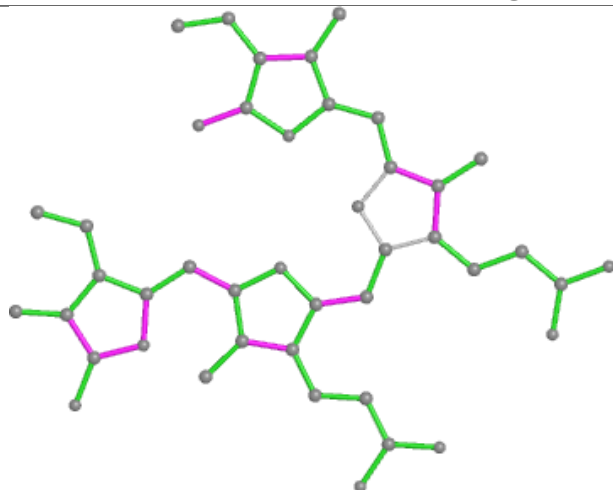


Rings

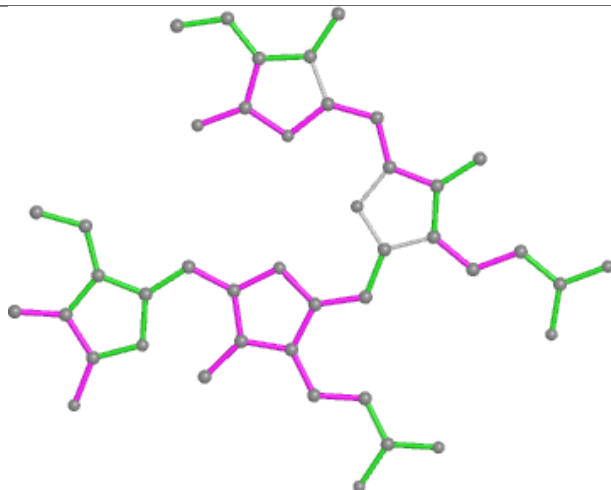




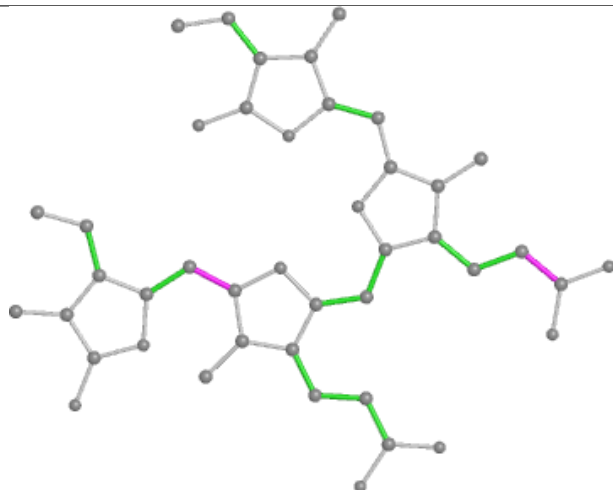
Ligand PEB A3 201



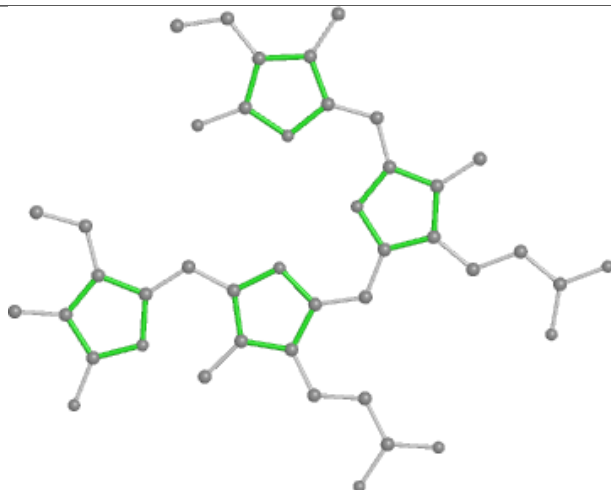
Bond lengths



Bond angles

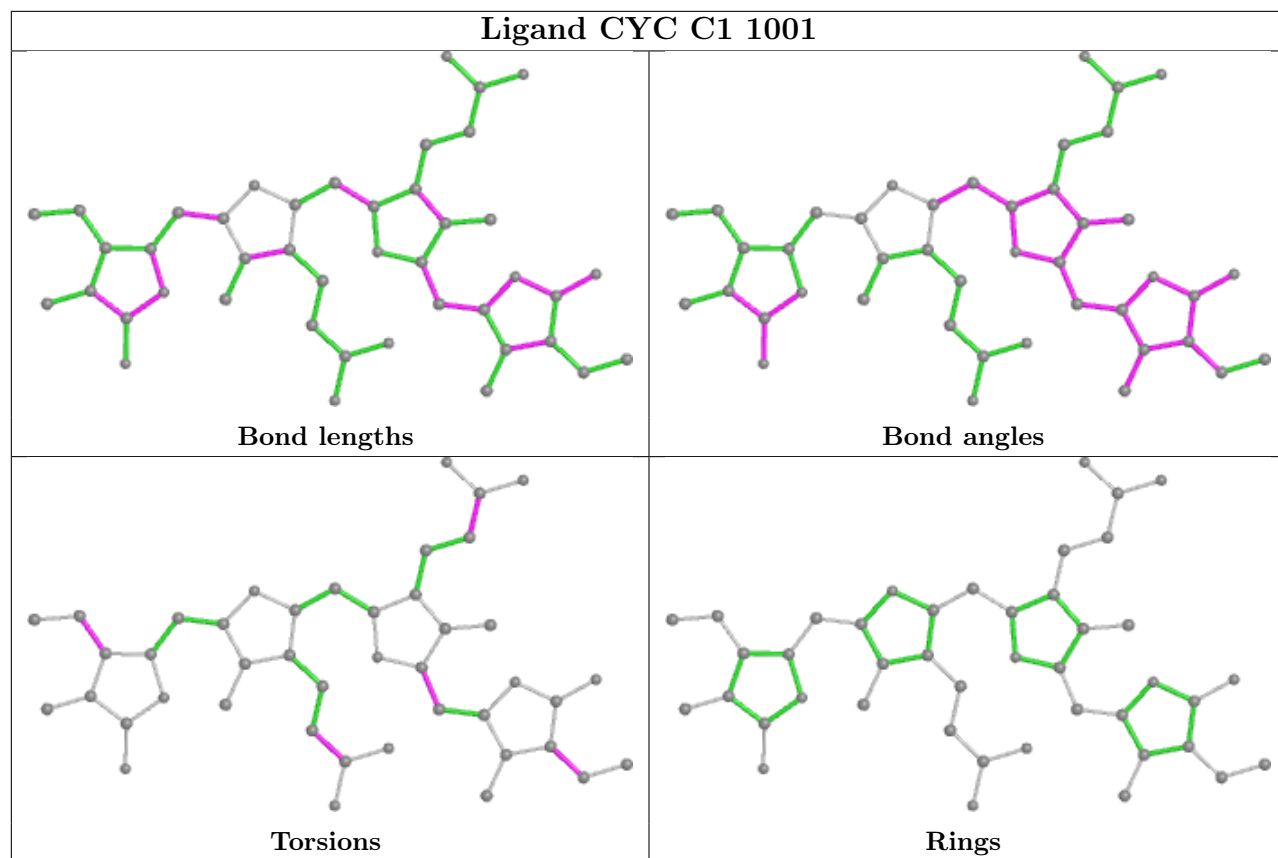


Torsions

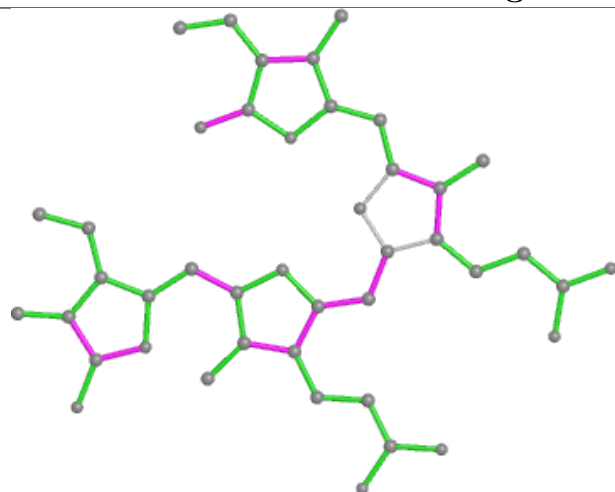


Rings

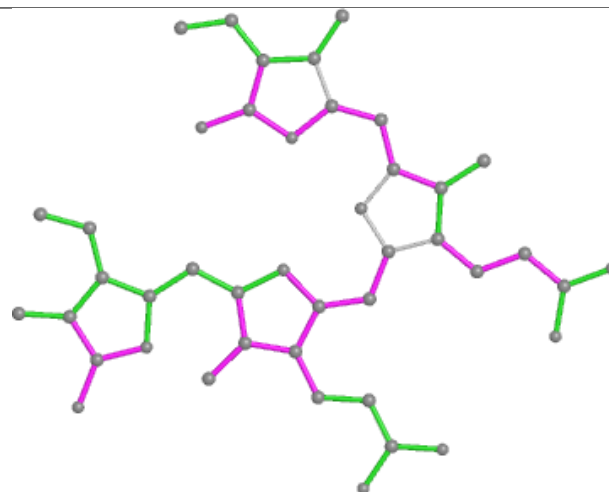
Ligand CYC C1 1001



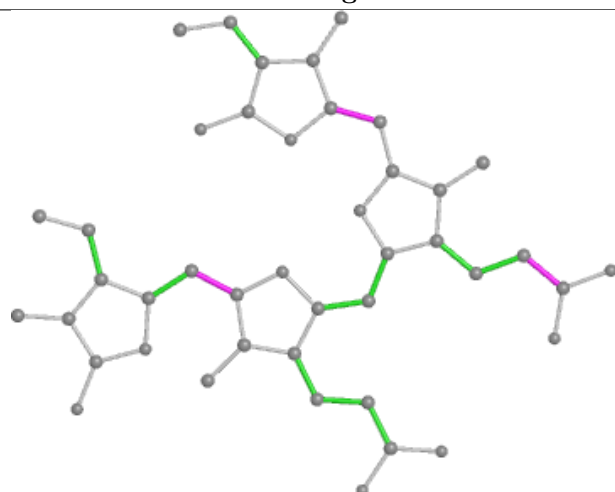
Ligand PEB LC 201



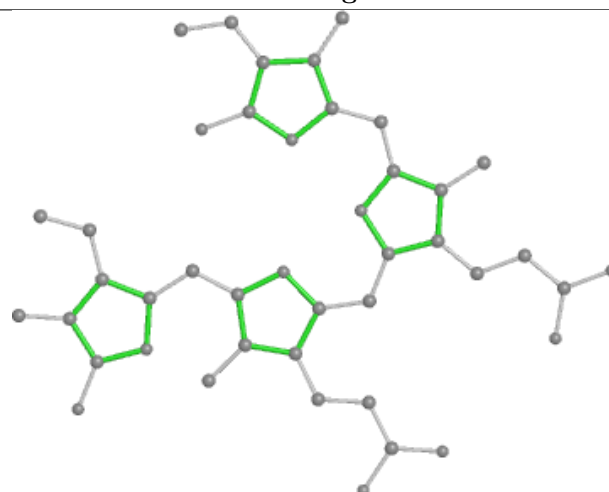
Bond lengths



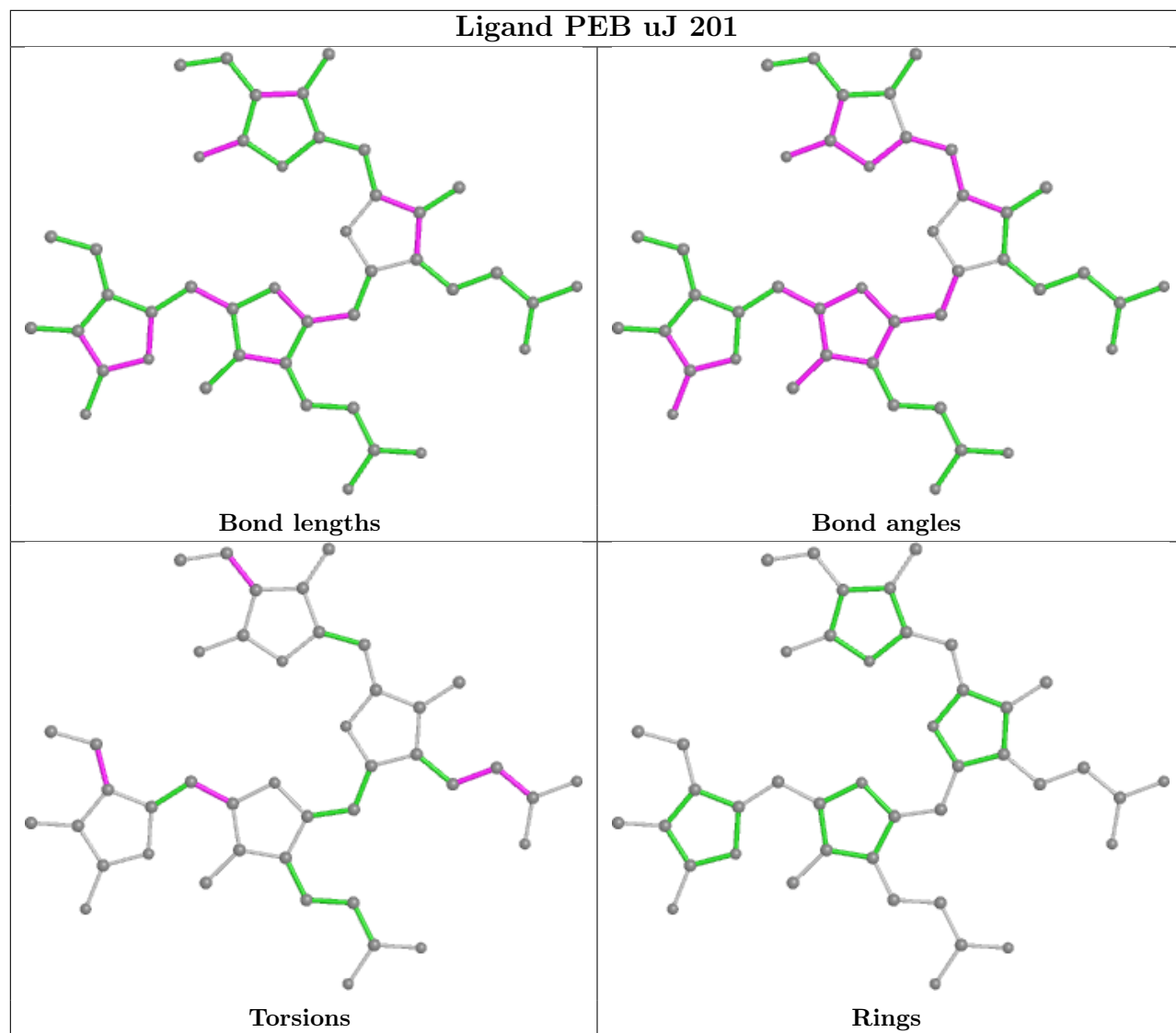
Bond angles



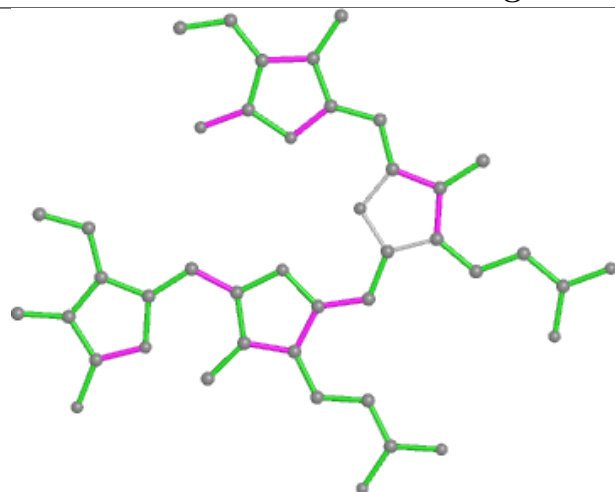
Torsions



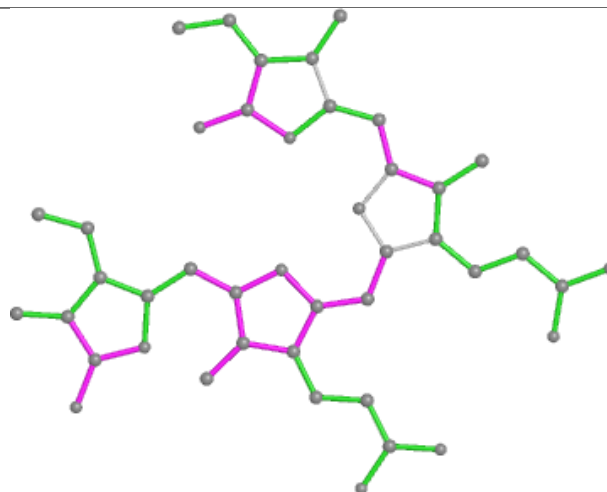
Rings



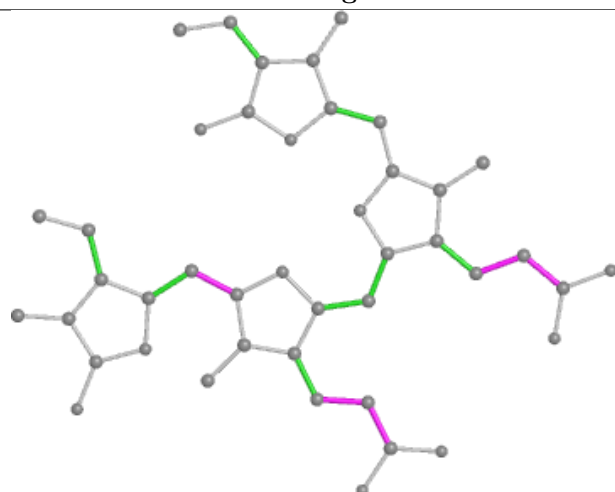
Ligand PEB AC 202



Bond lengths



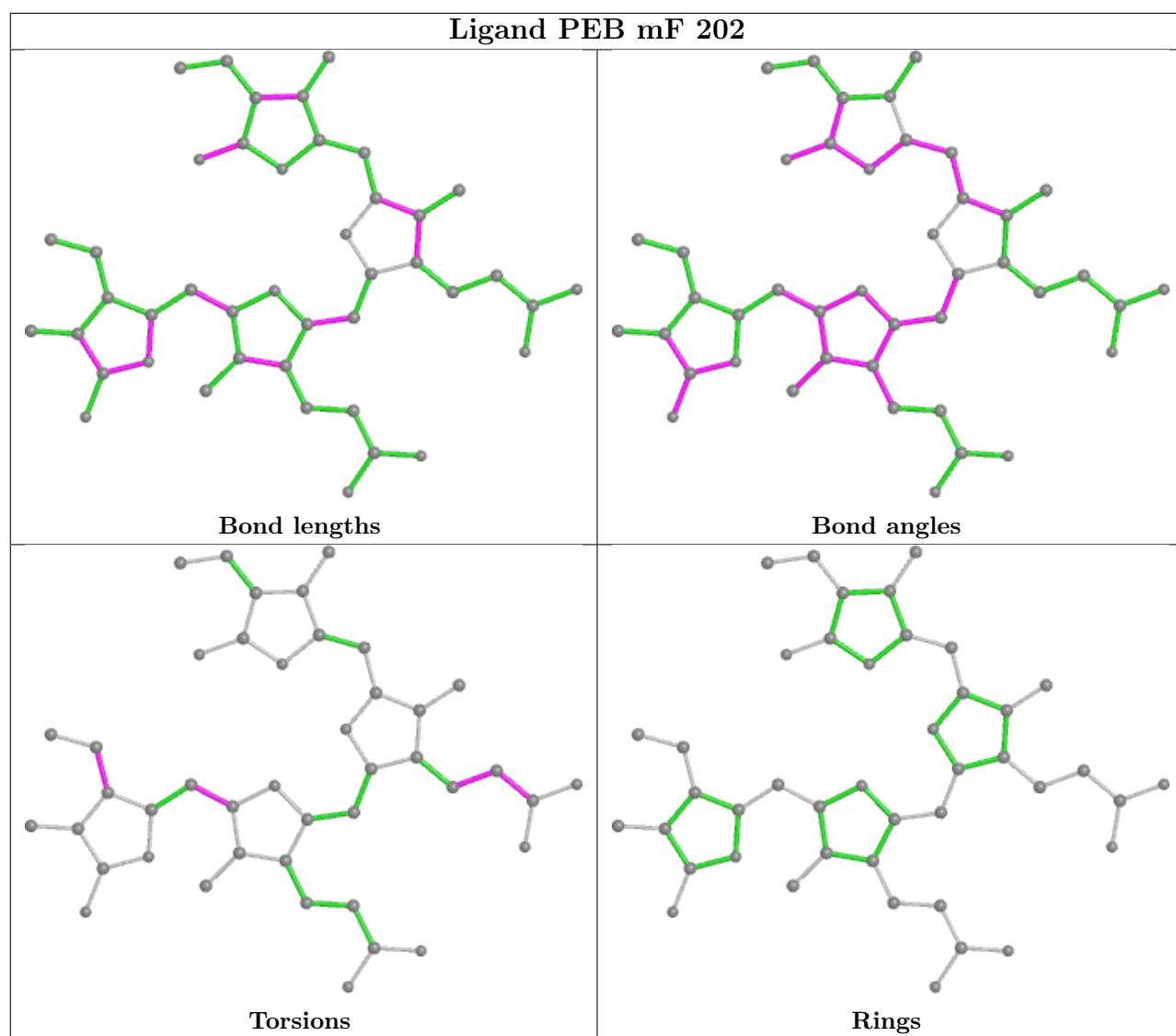
Bond angles



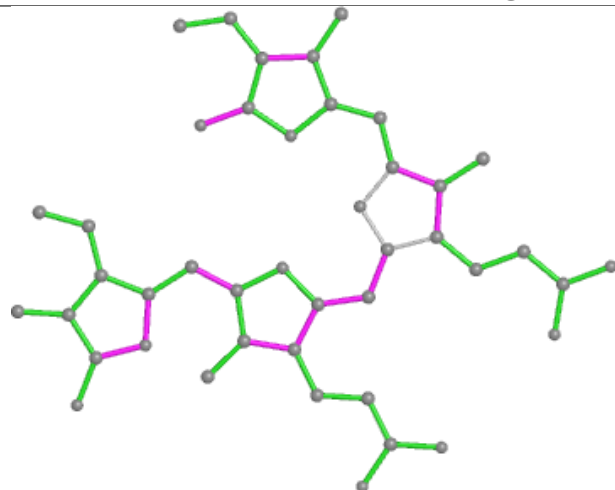
Torsions



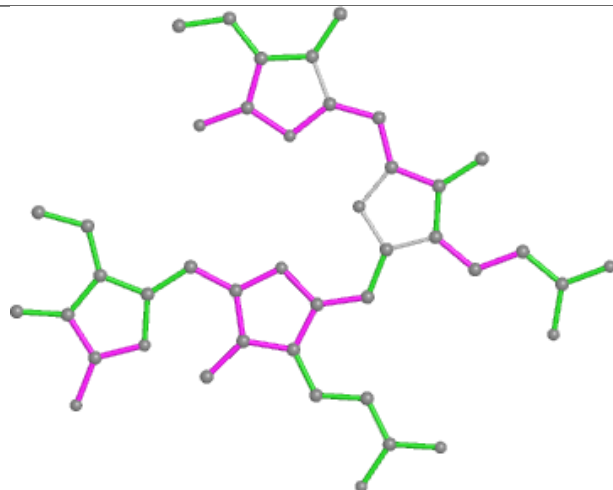
Rings



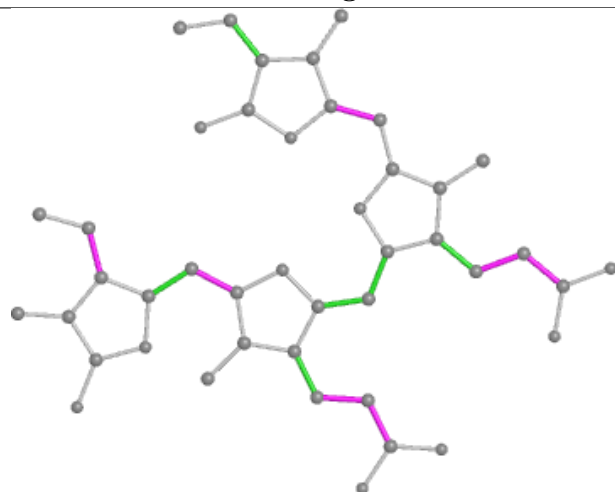
Ligand PEB DO 202



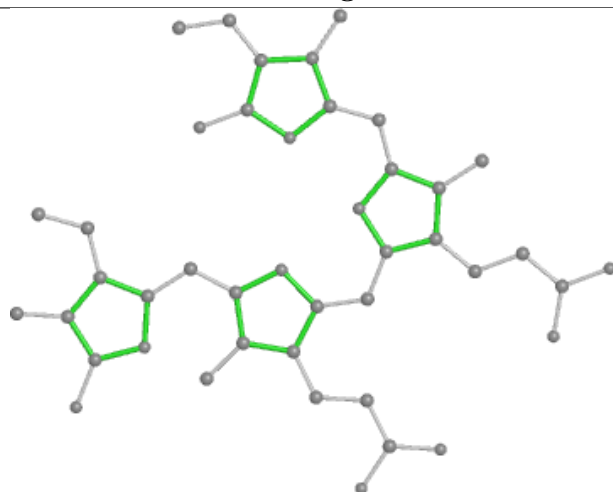
Bond lengths



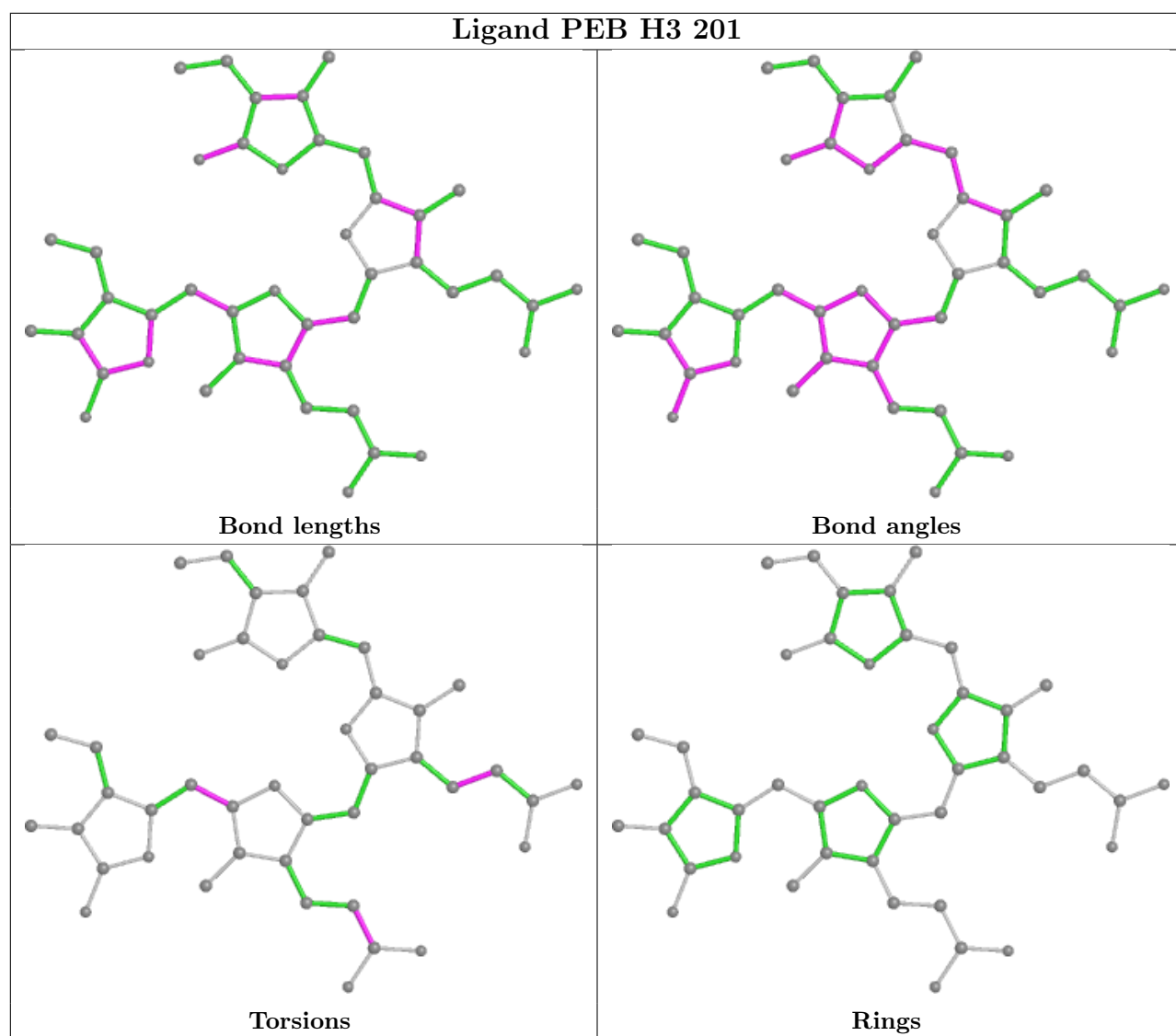
Bond angles



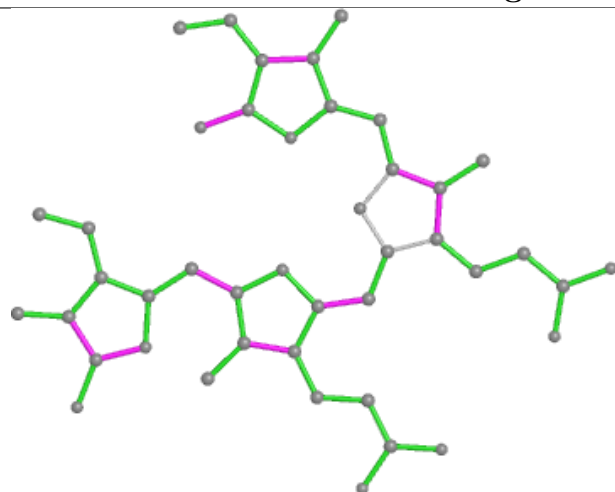
Torsions



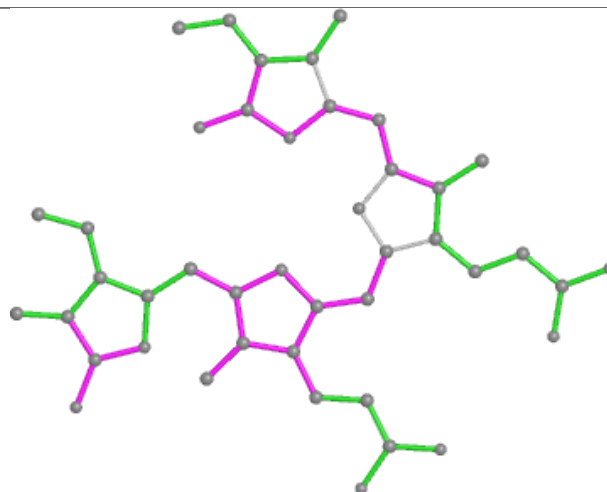
Rings



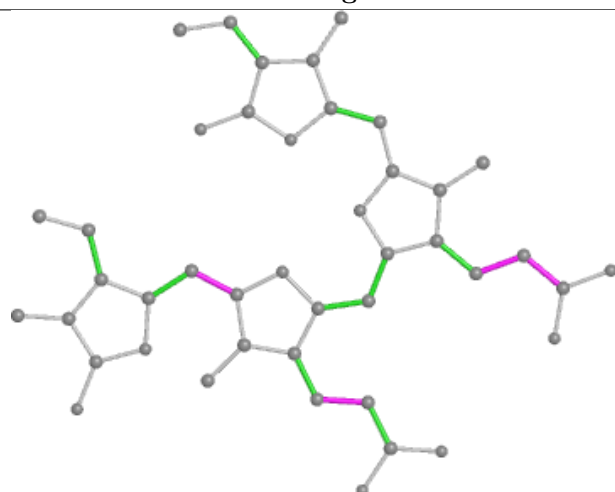
Ligand PEB ZK 201



Bond lengths



Bond angles

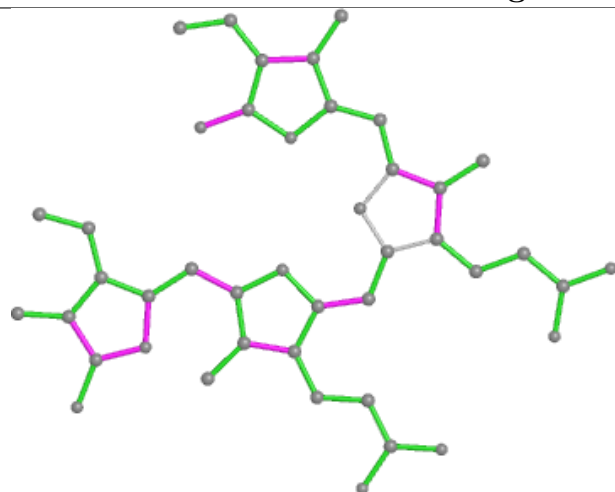


Torsions

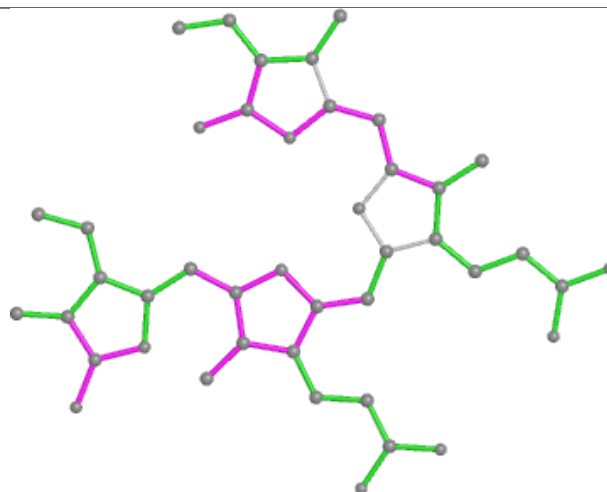


Rings

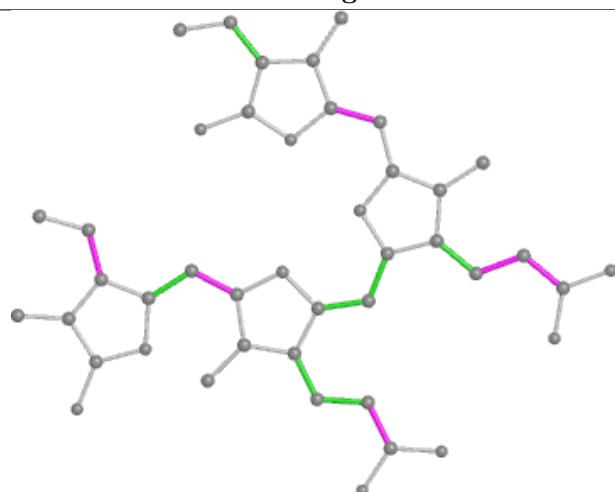
Ligand PEB B8 202



Bond lengths



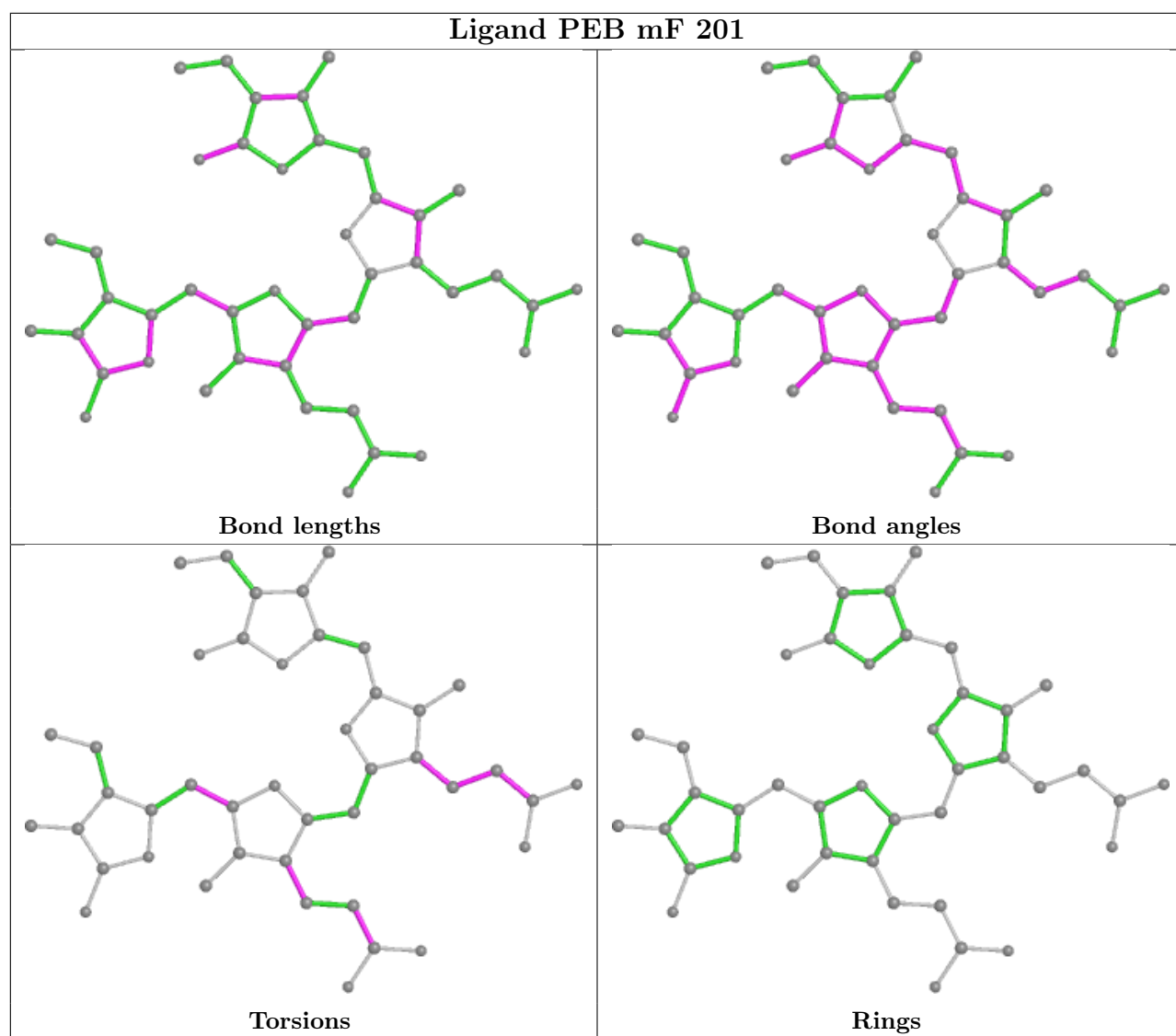
Bond angles



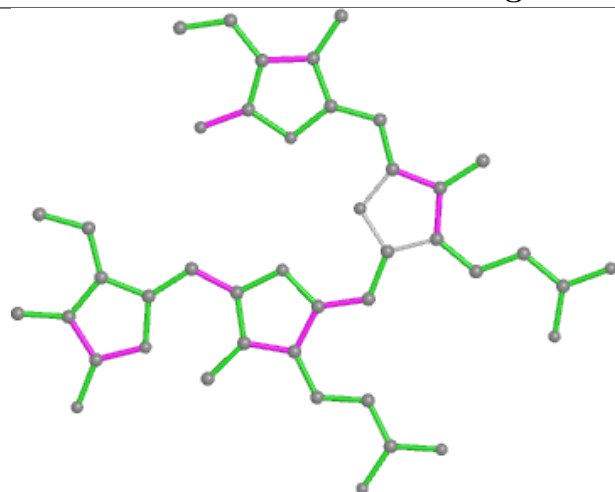
Torsions



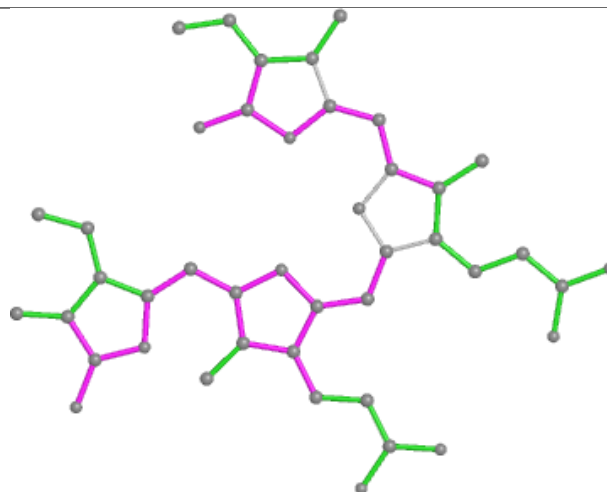
Rings



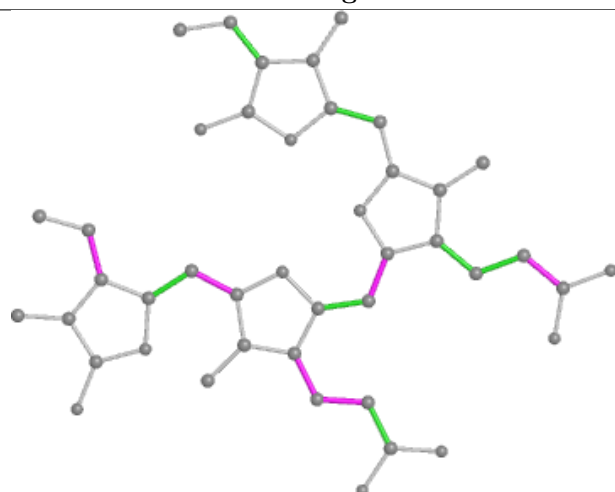
Ligand PEB LN 202



Bond lengths



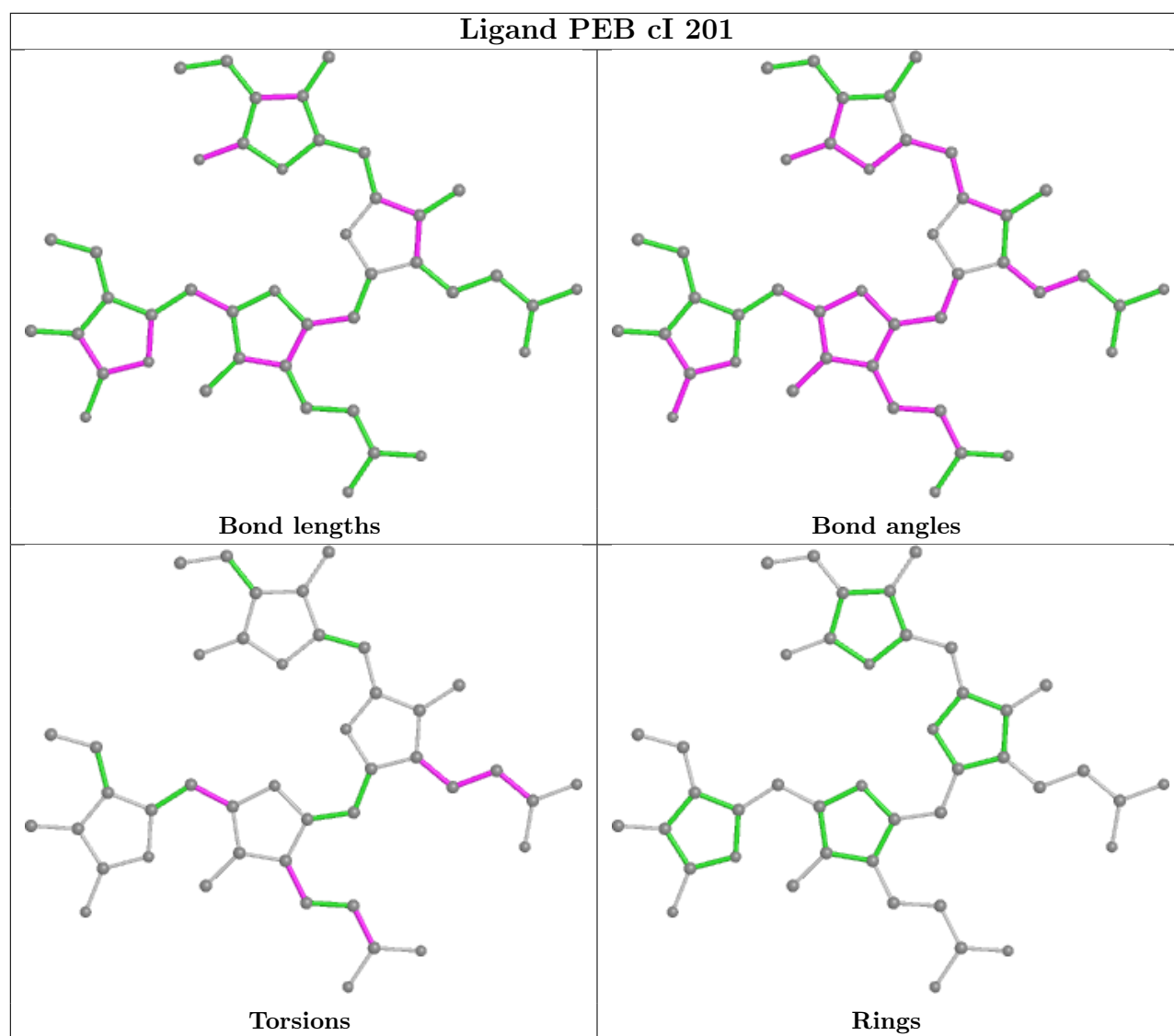
Bond angles

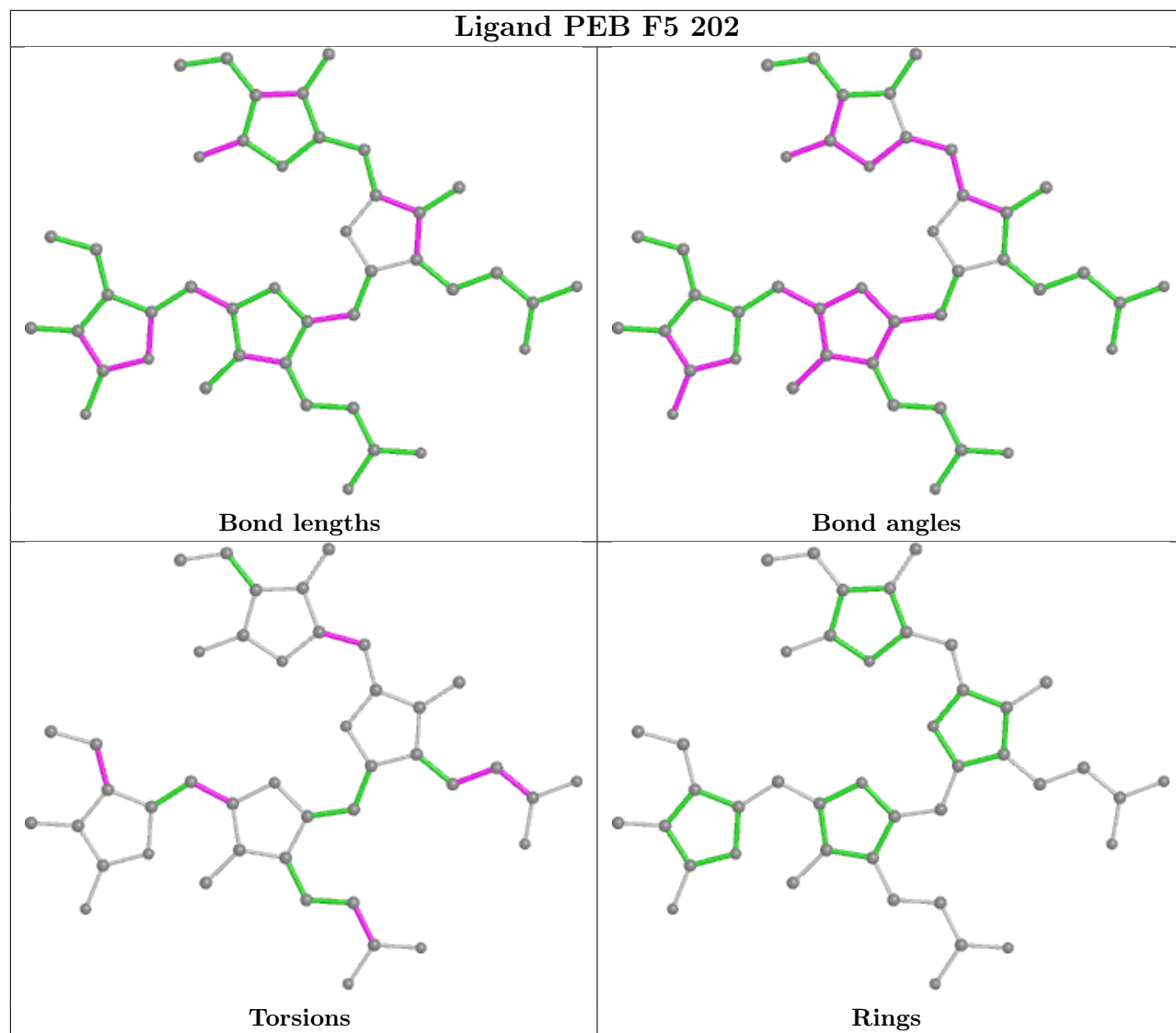


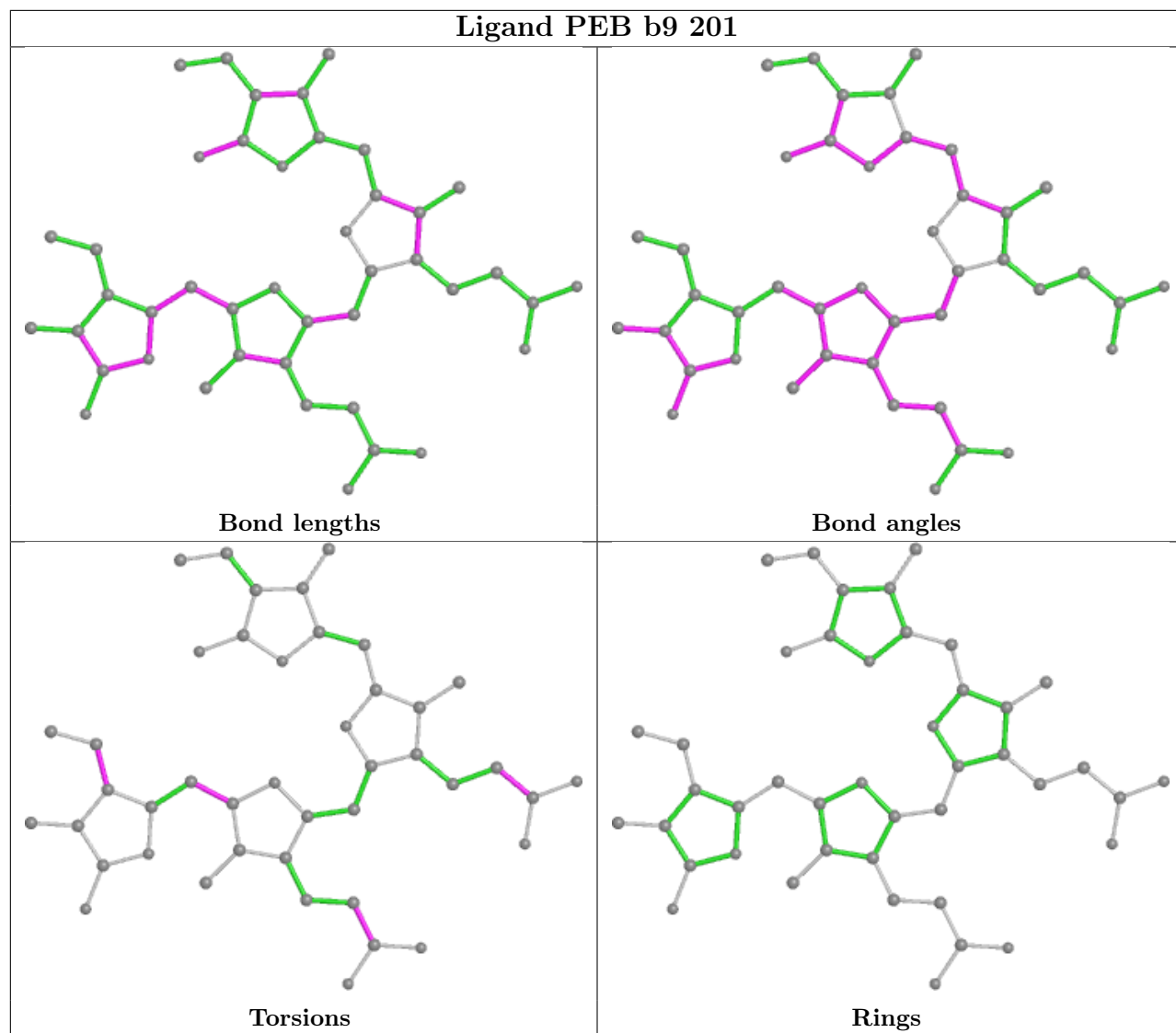
Torsions



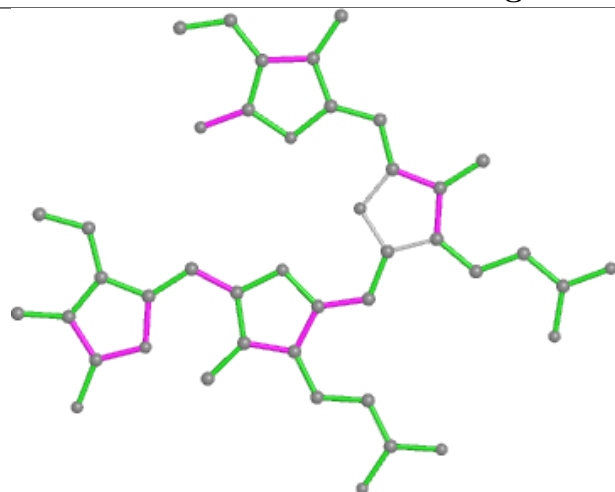
Rings



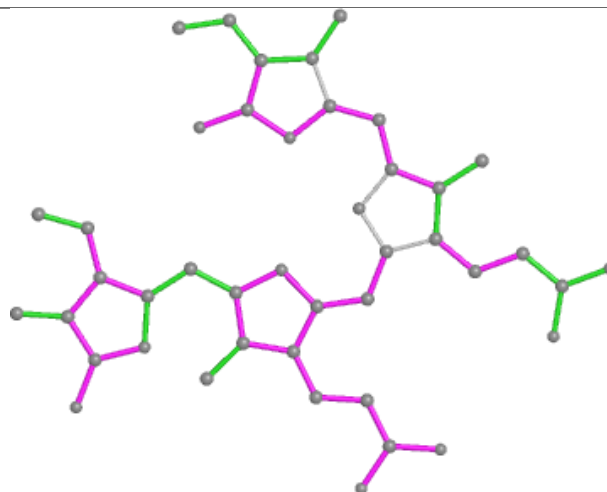




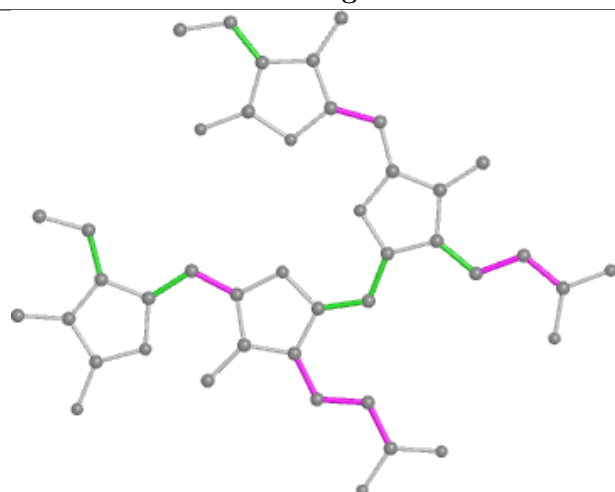
Ligand PEB LN 201



Bond lengths



Bond angles

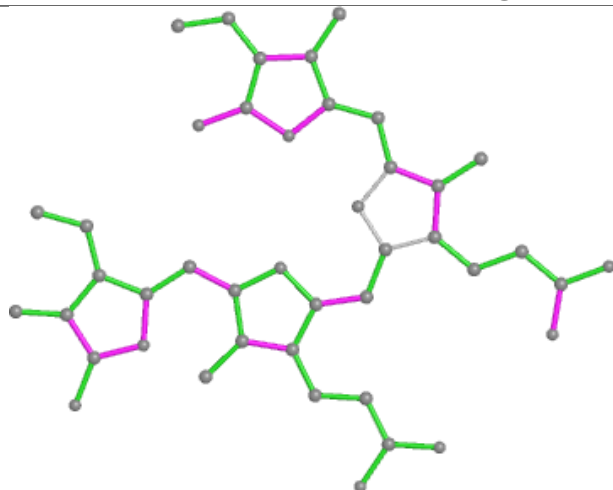


Torsions

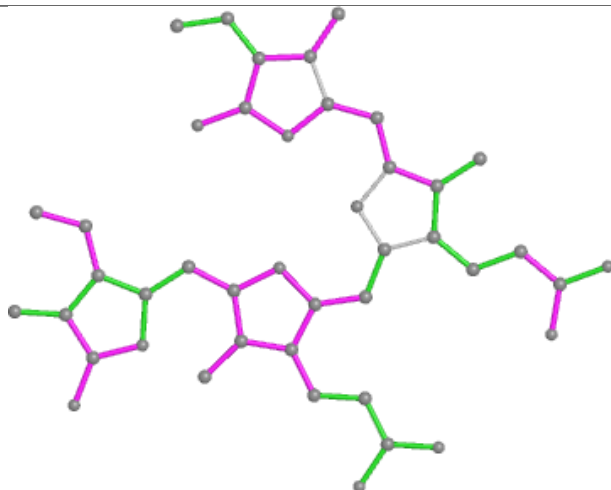


Rings

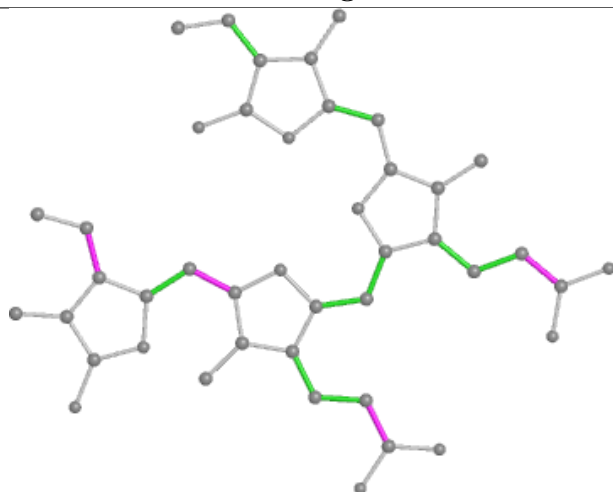
Ligand PEB H1 1002



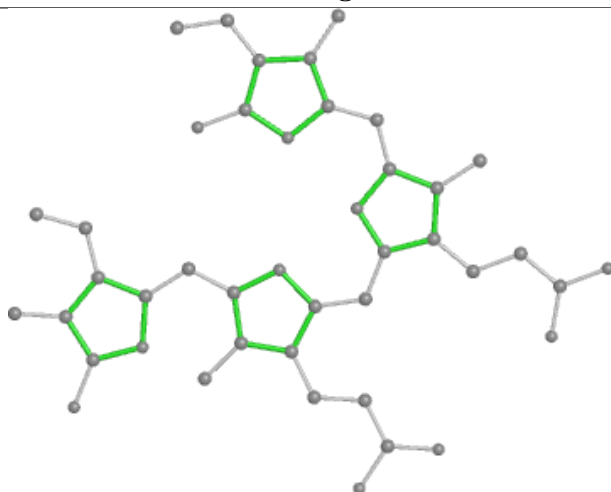
Bond lengths



Bond angles

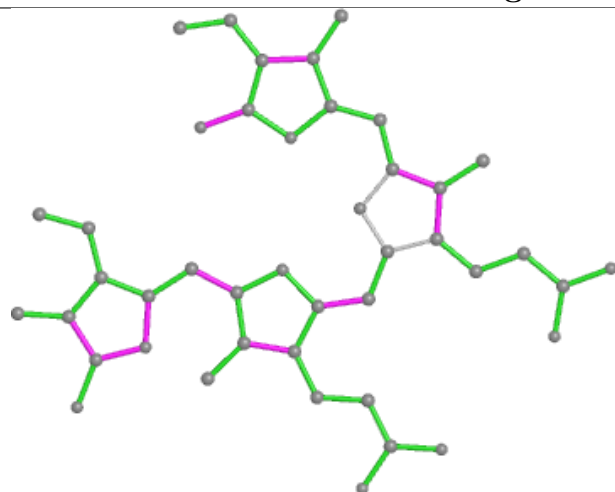


Torsions

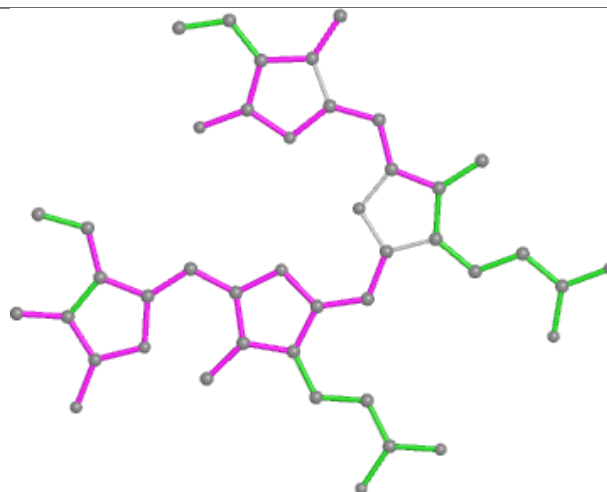


Rings

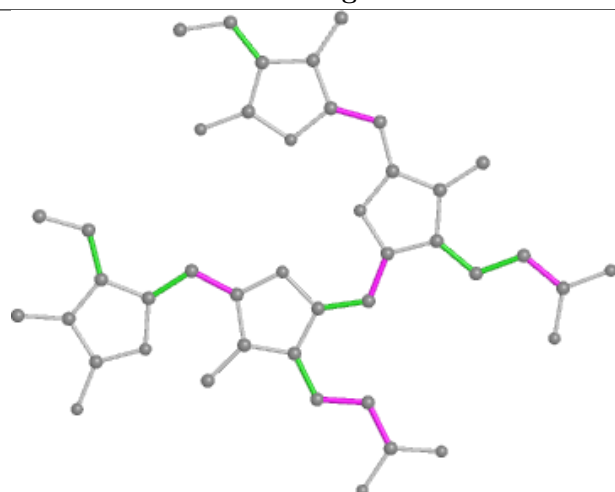
Ligand PEB FD 202



Bond lengths



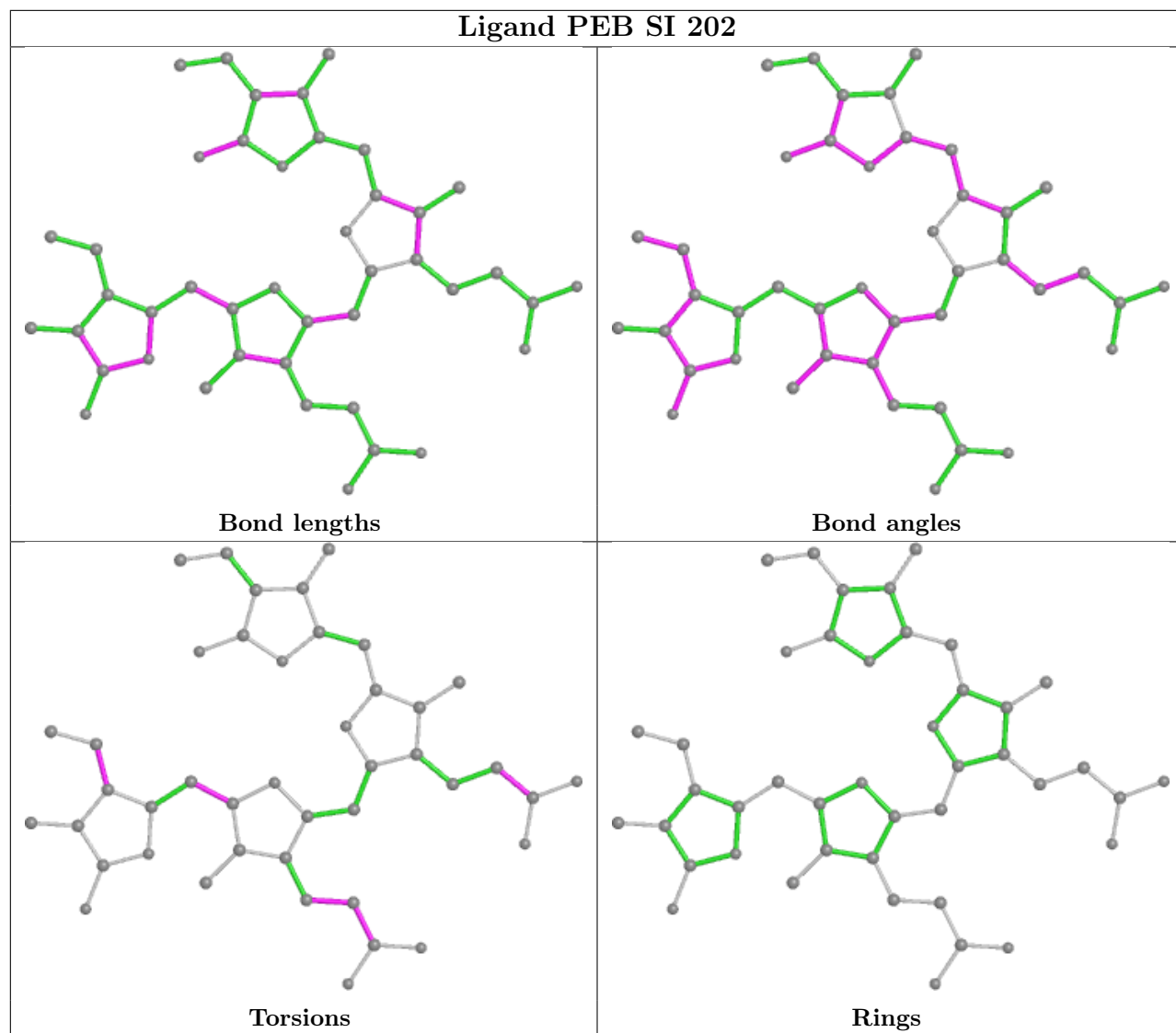
Bond angles



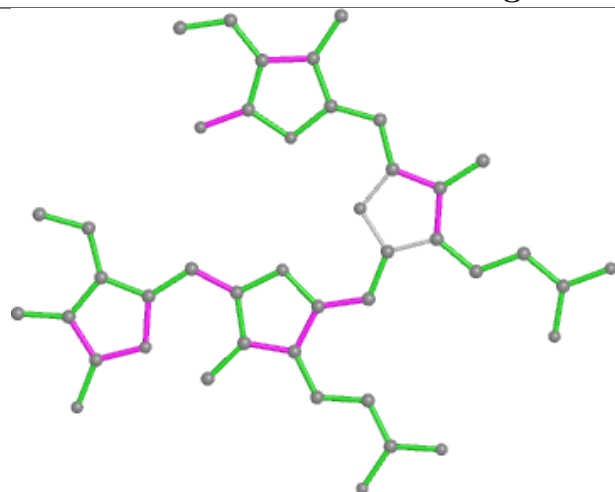
Torsions



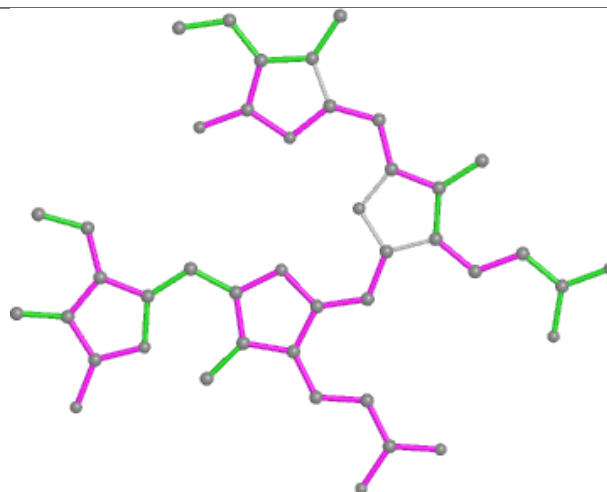
Rings



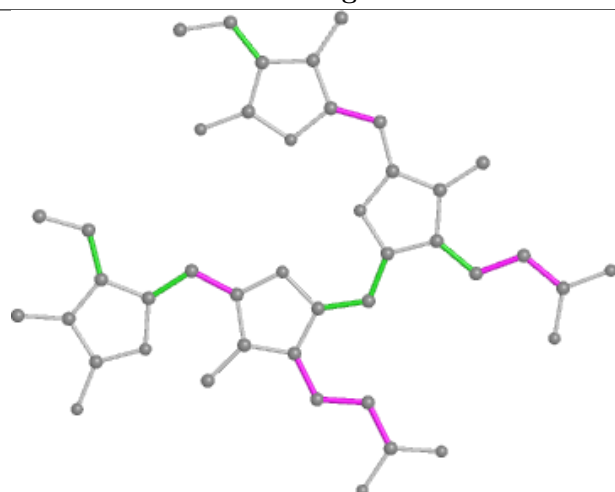
Ligand PEB BA 201



Bond lengths



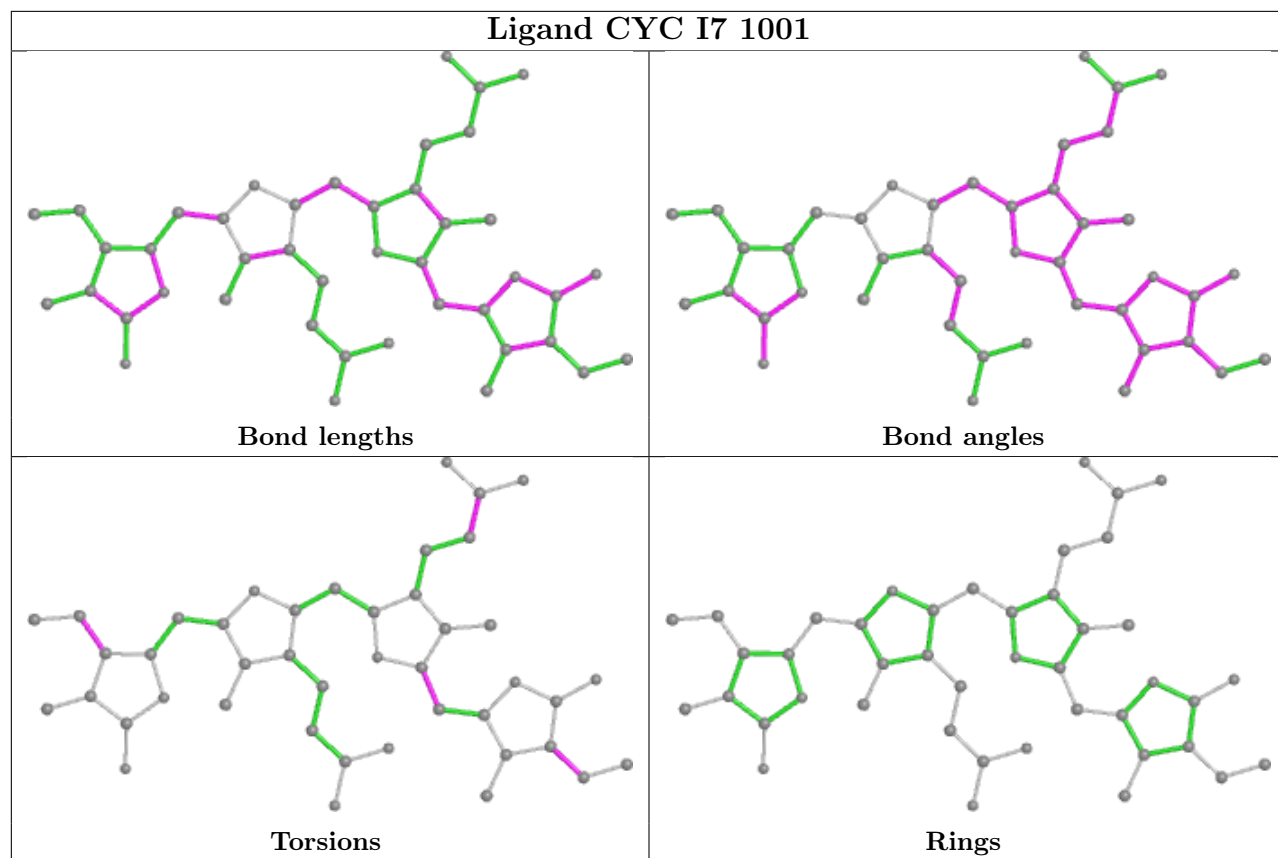
Bond angles

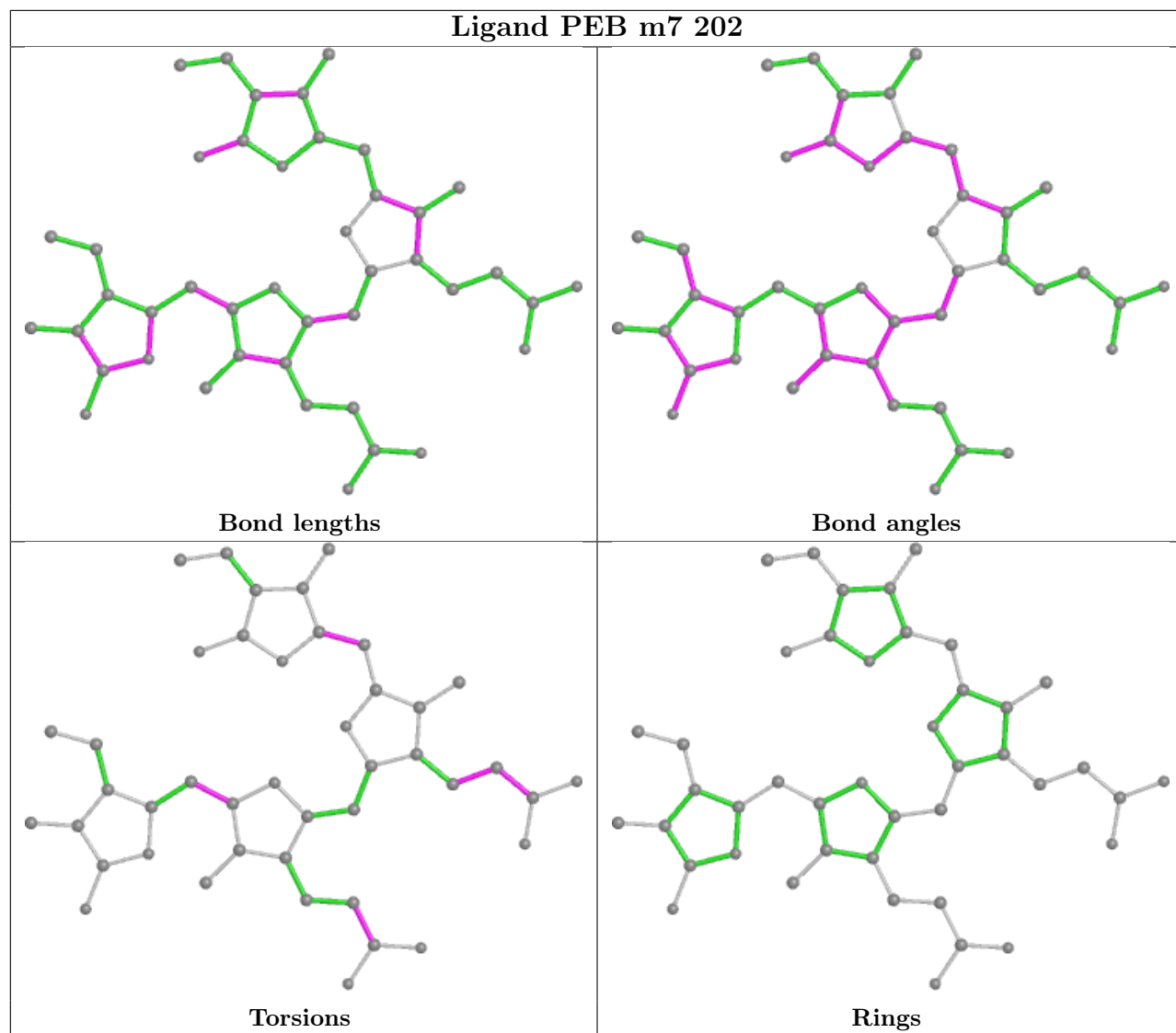


Torsions

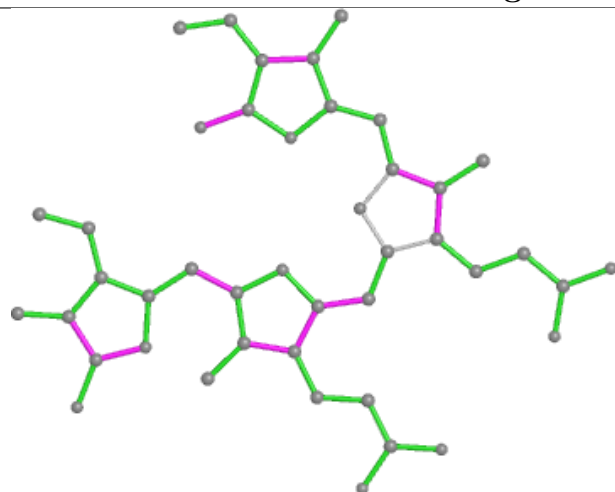


Rings

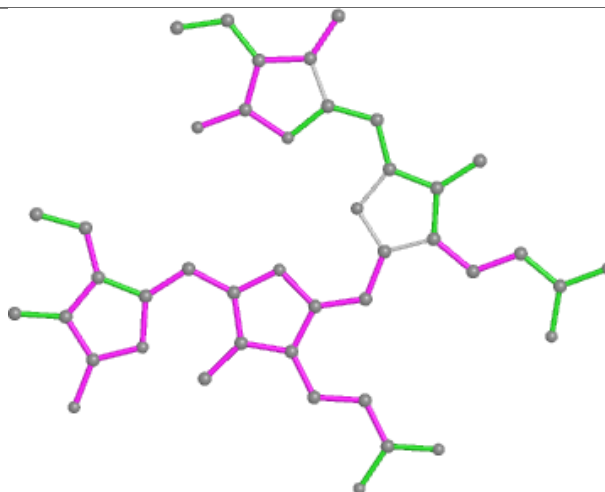




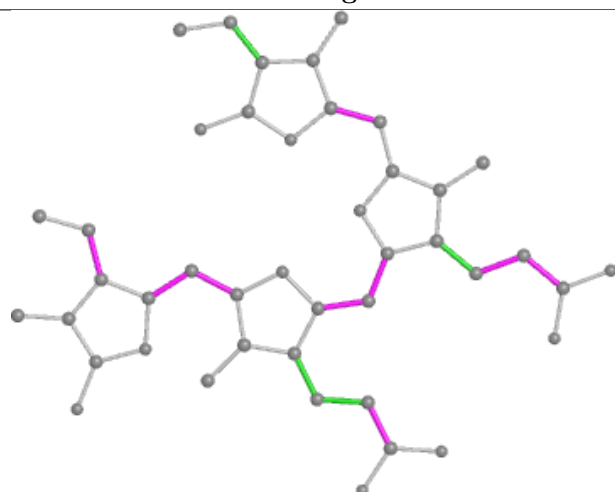
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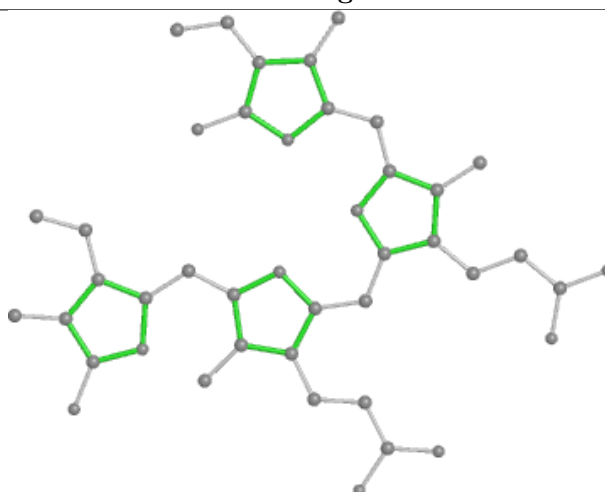
Bond lengths



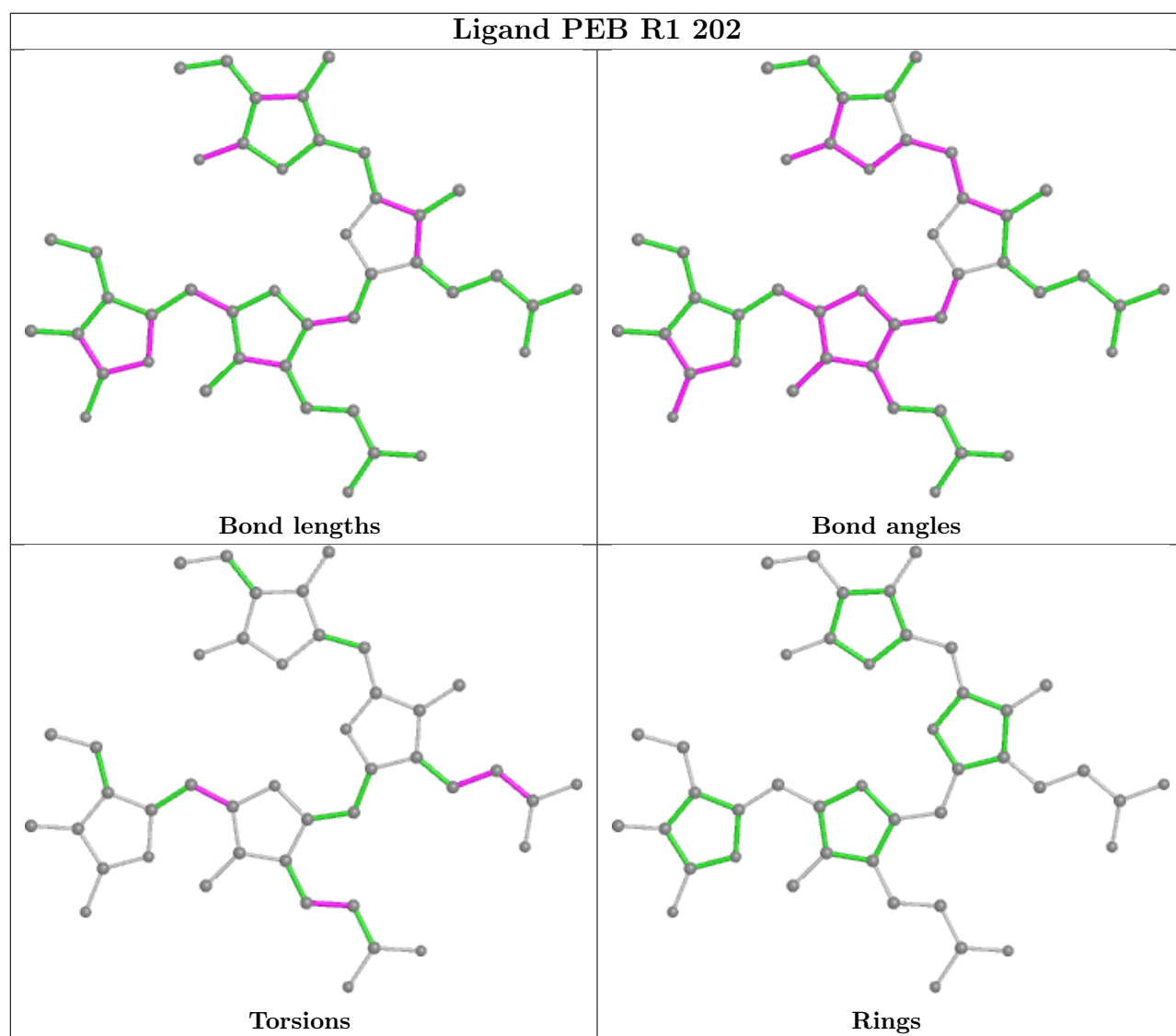
Bond angles

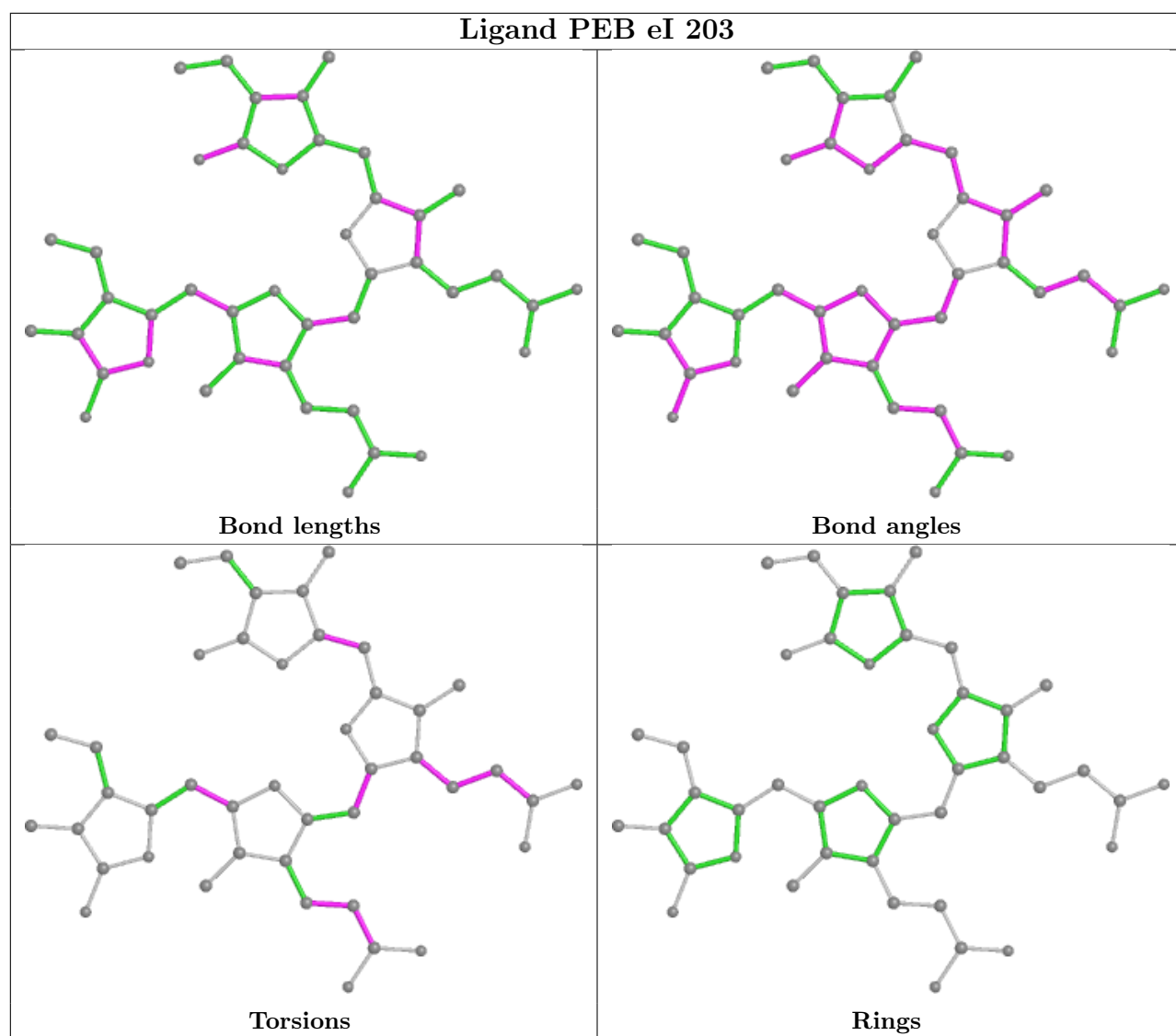


Torsions

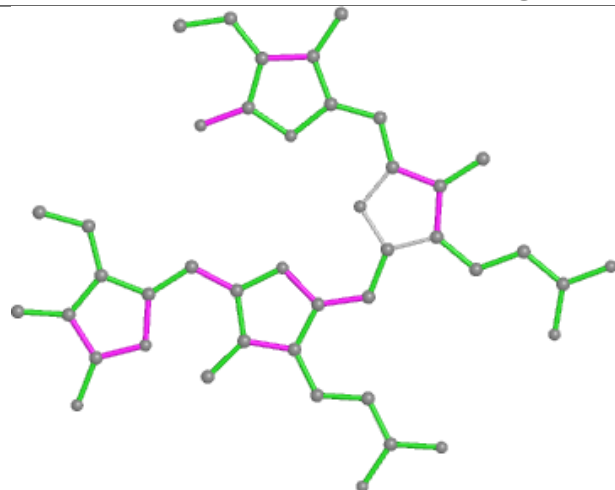


Rings

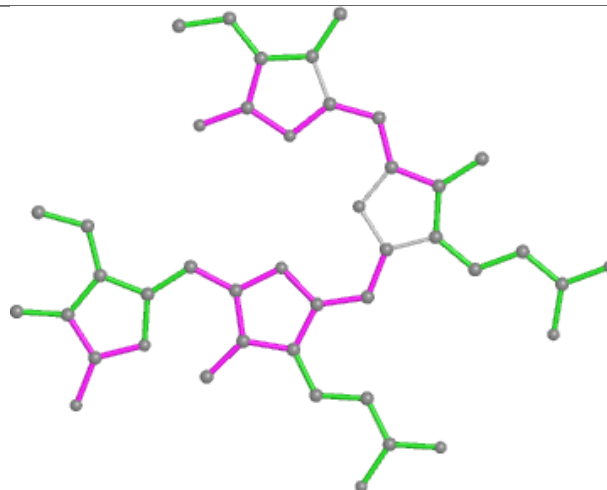




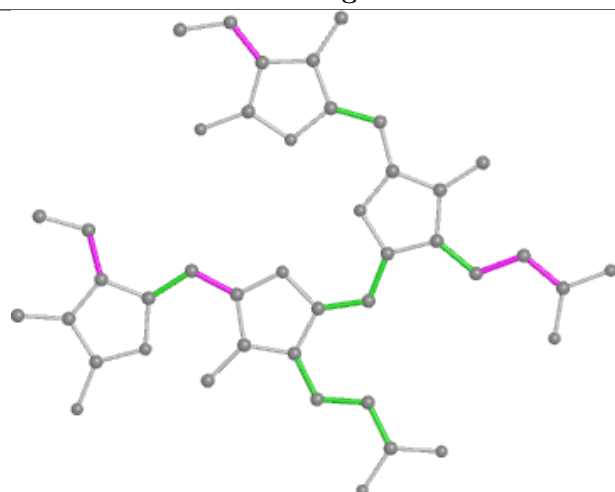
Ligand PEB 1J 202



Bond lengths



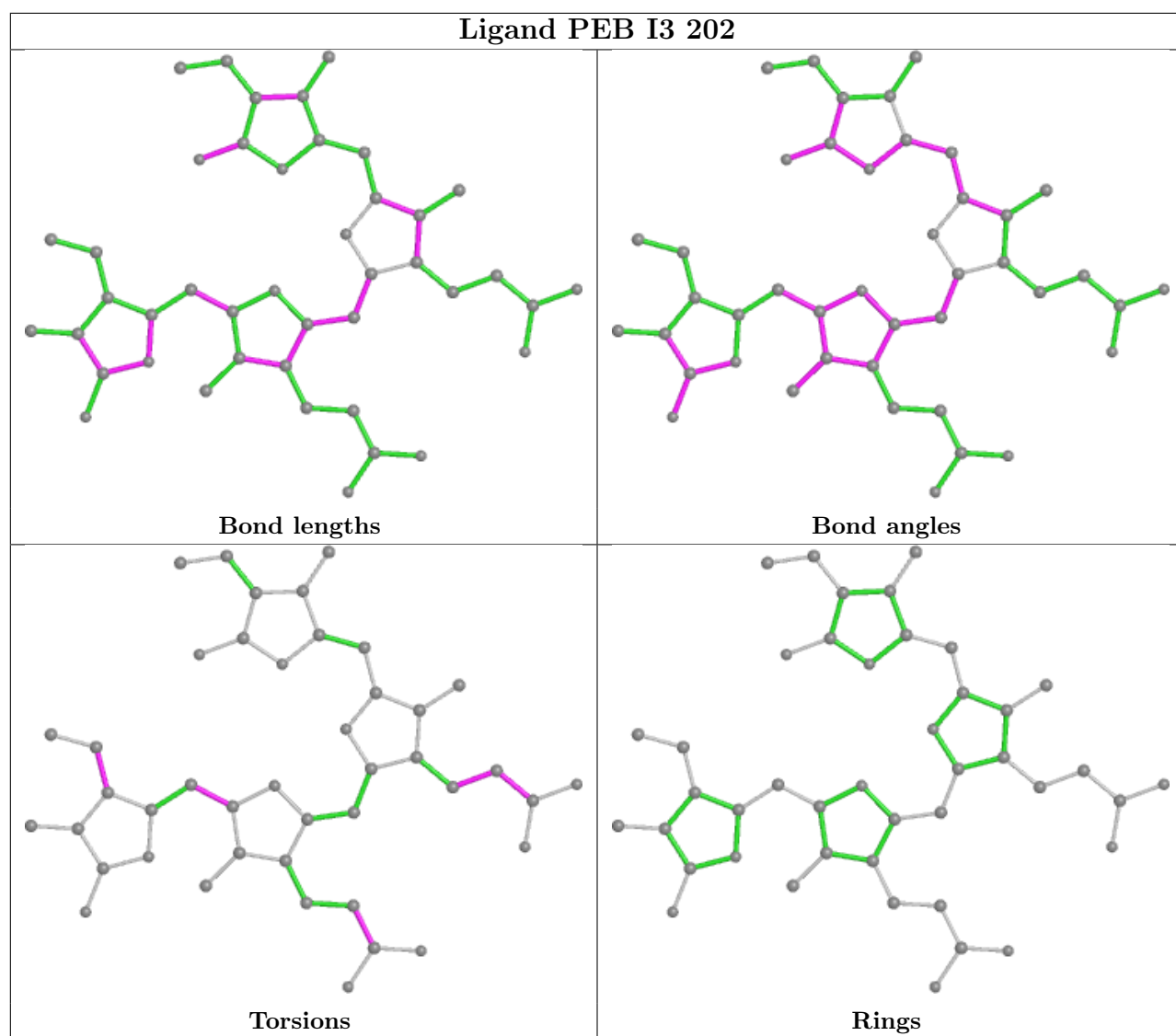
Bond angles



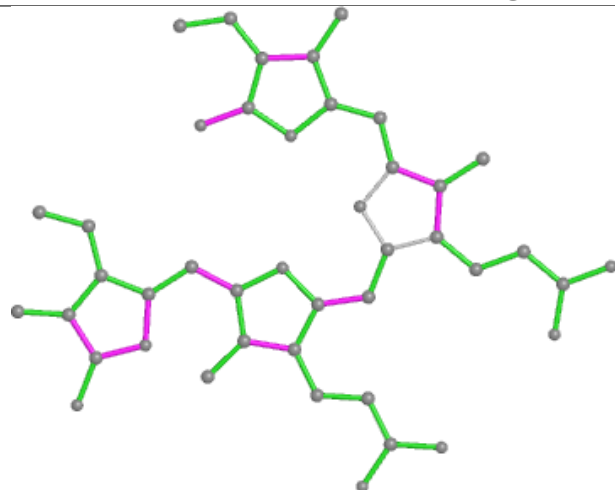
Torsions



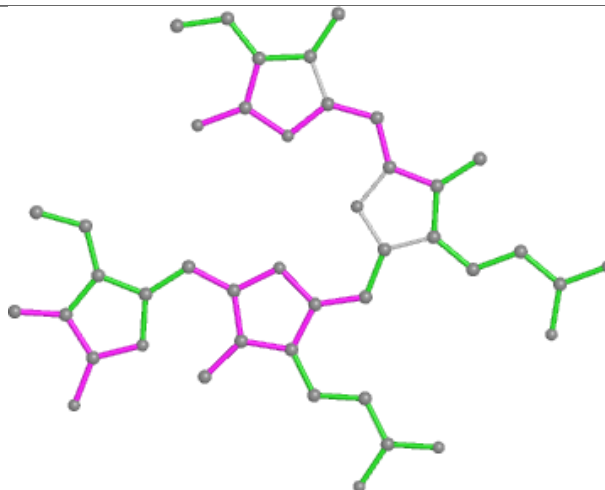
Rings



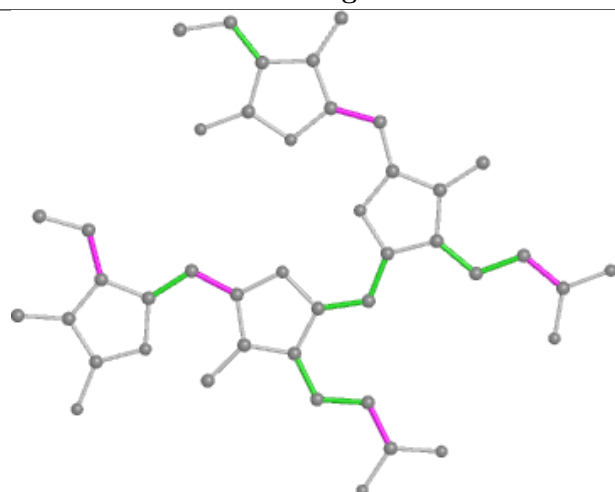
Ligand PEB EA 201



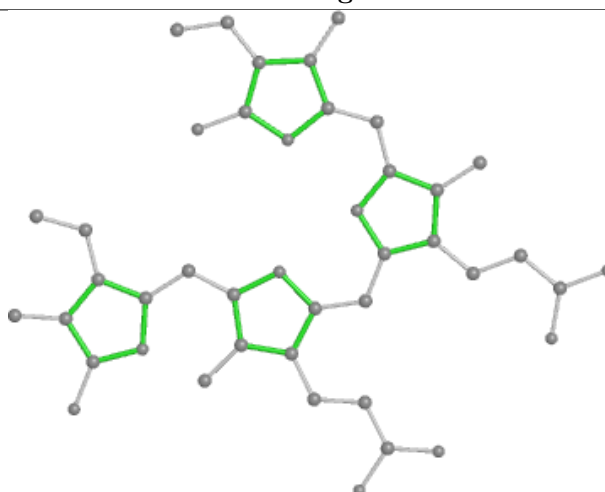
Bond lengths



Bond angles

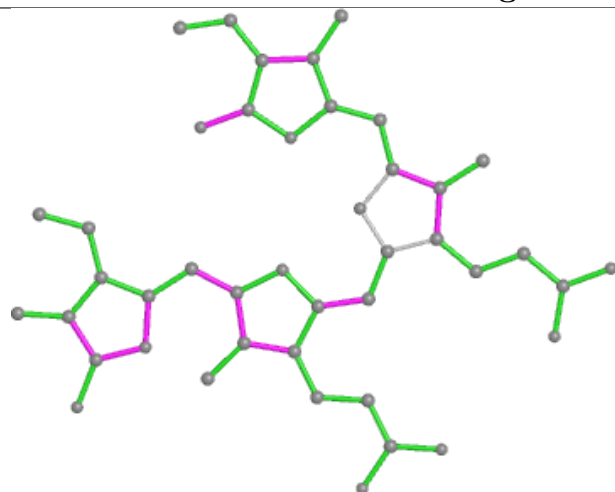


Torsions

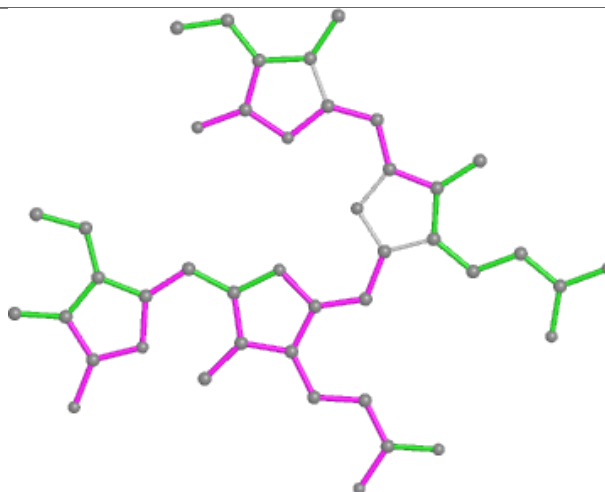


Rings

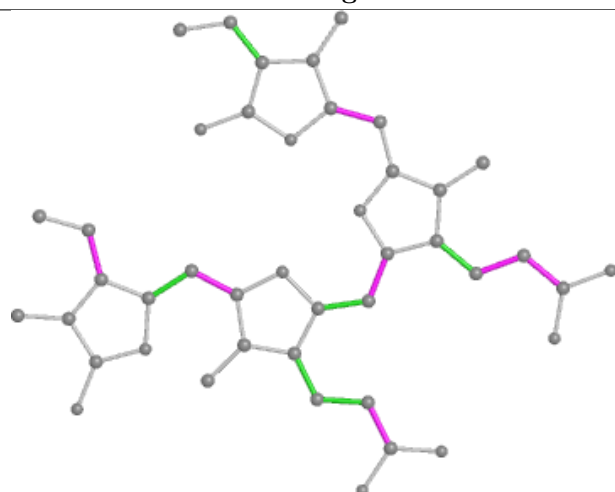
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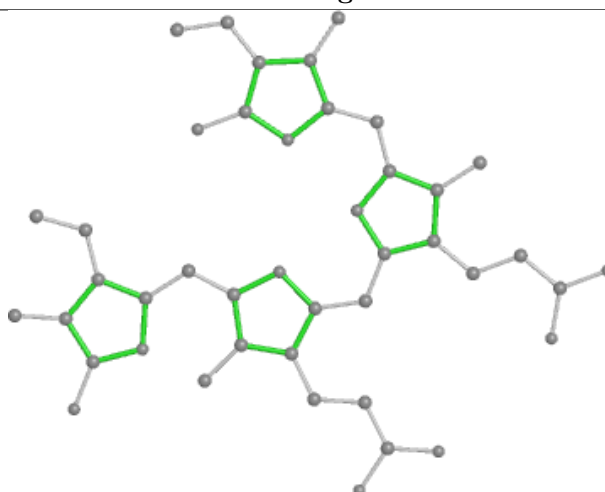
Bond lengths



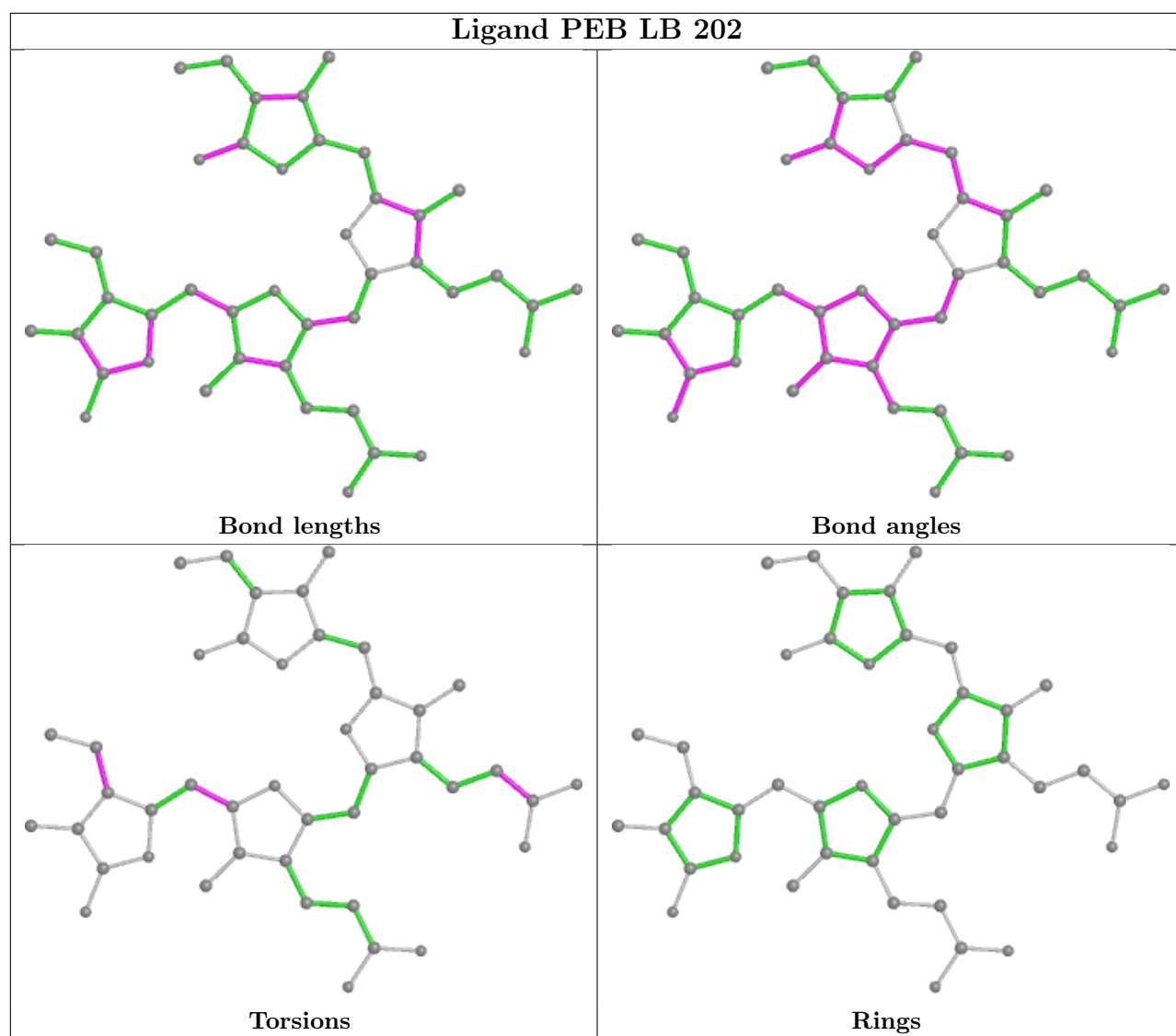
Bond angles

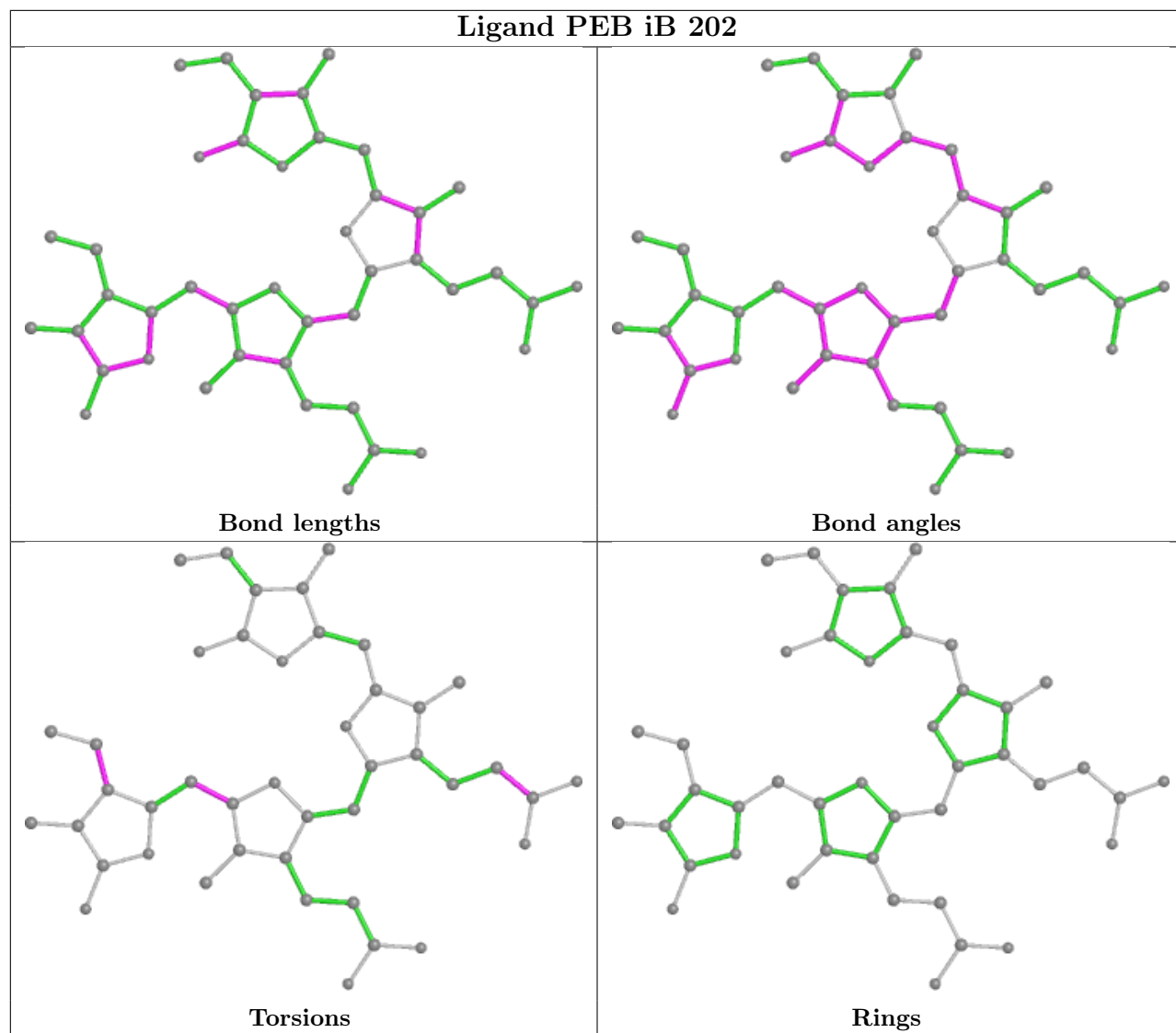


Torsions

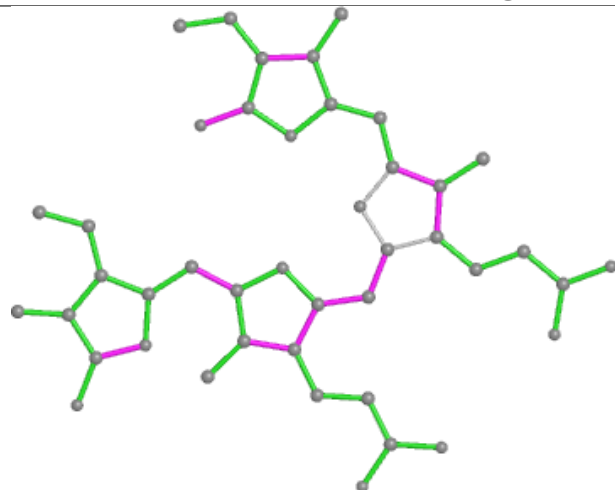


Rings

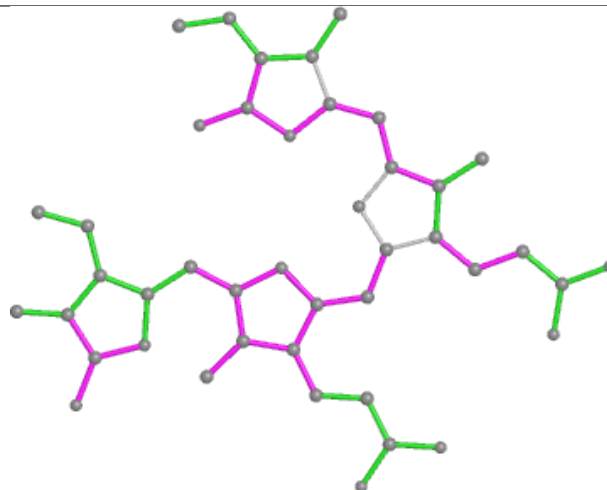




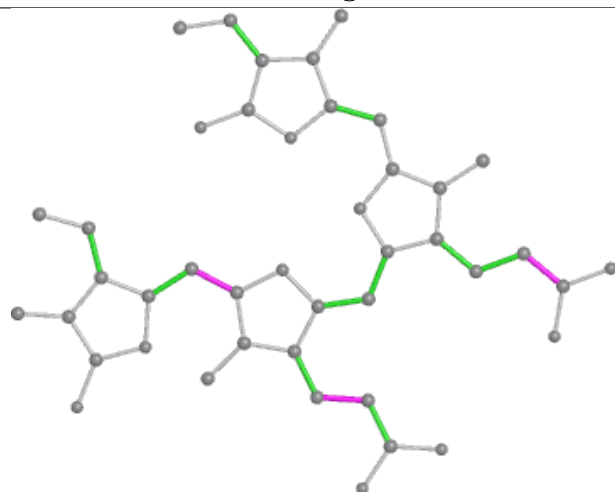
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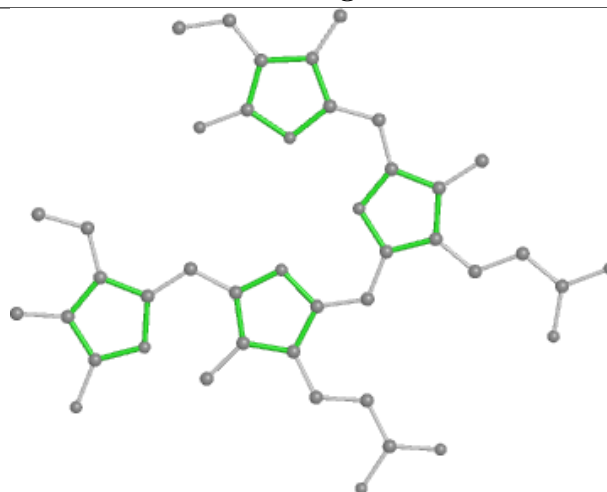
Bond lengths



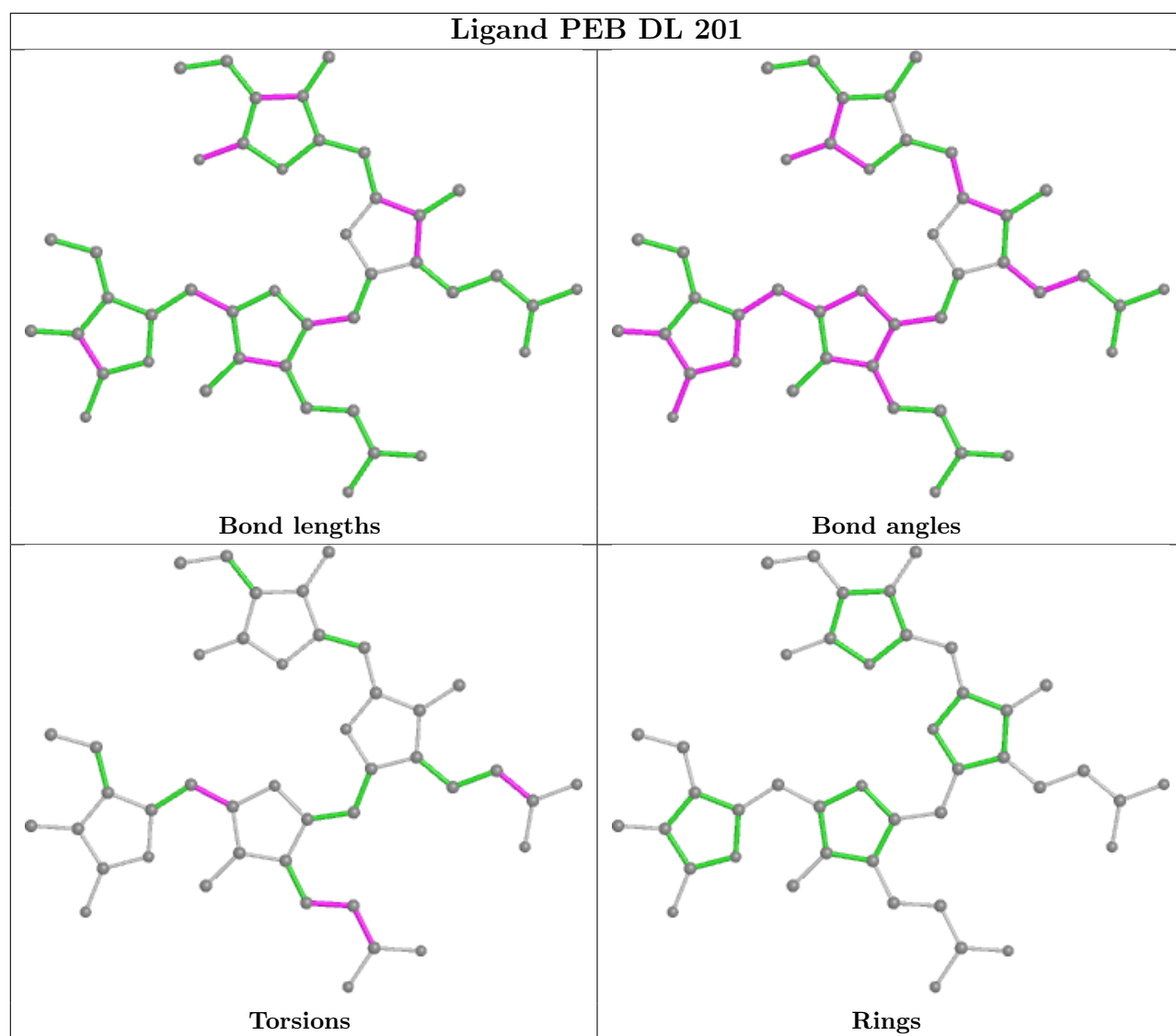
Bond angles



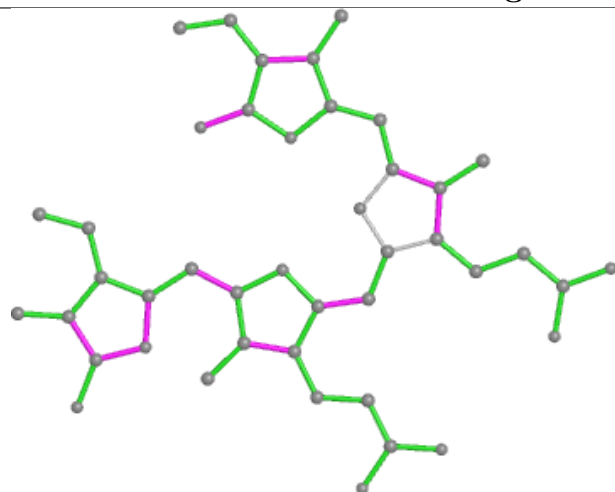
Torsions



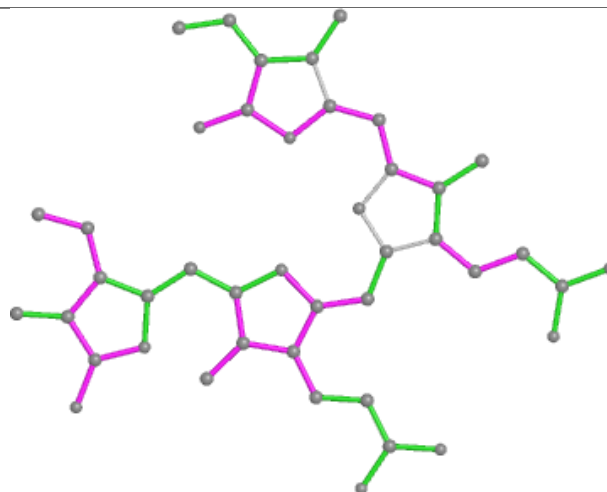
Rings



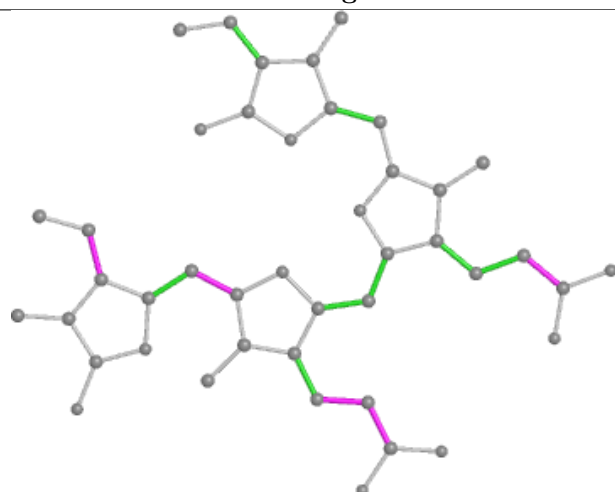
Ligand PEB OF 202



Bond lengths



Bond angles

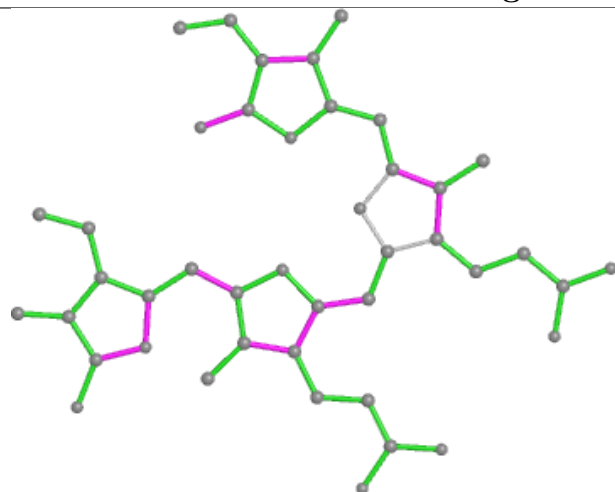


Torsions

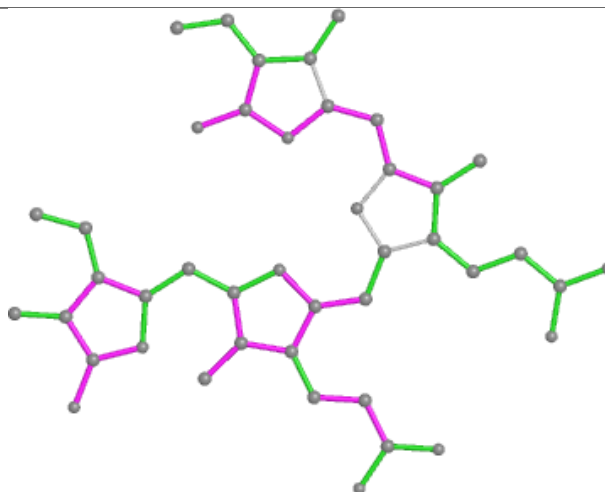


Rings

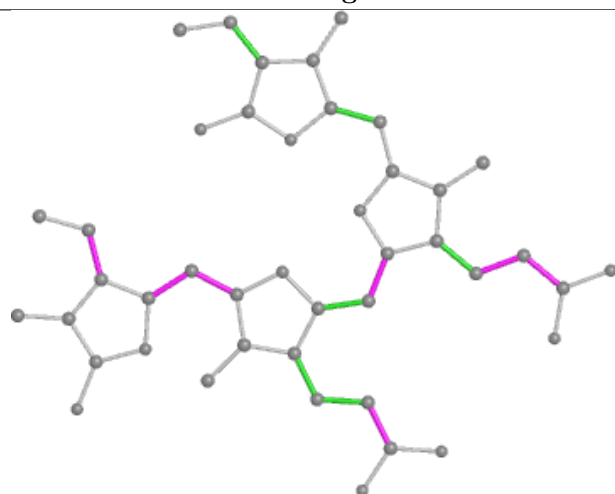
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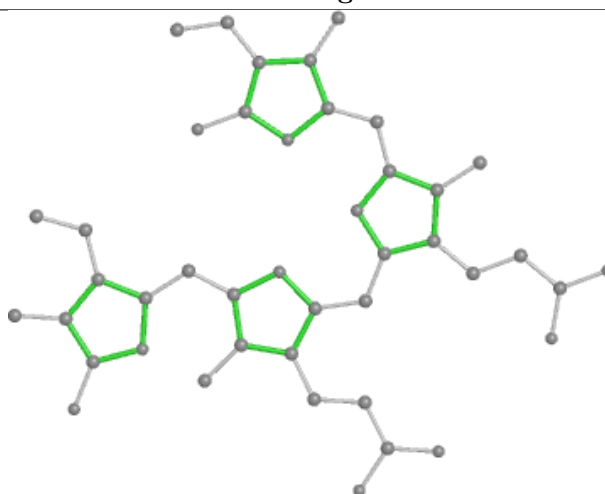
Bond lengths



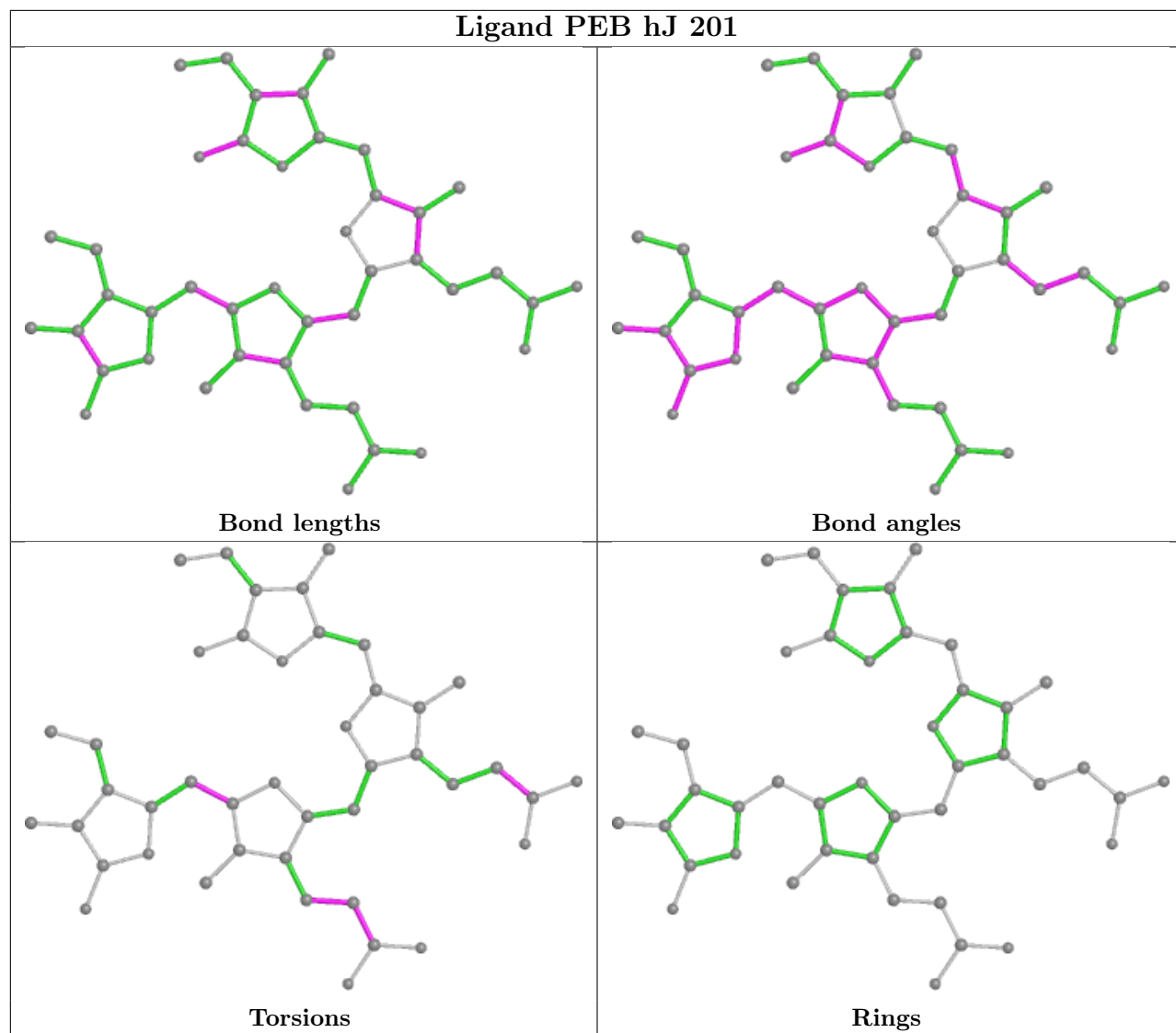
Bond angles



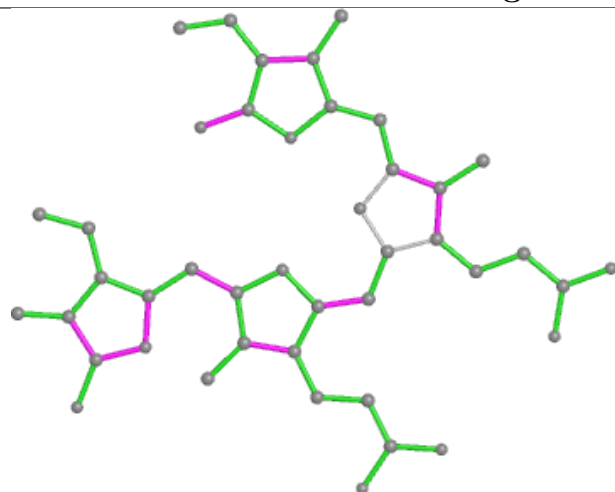
Torsions



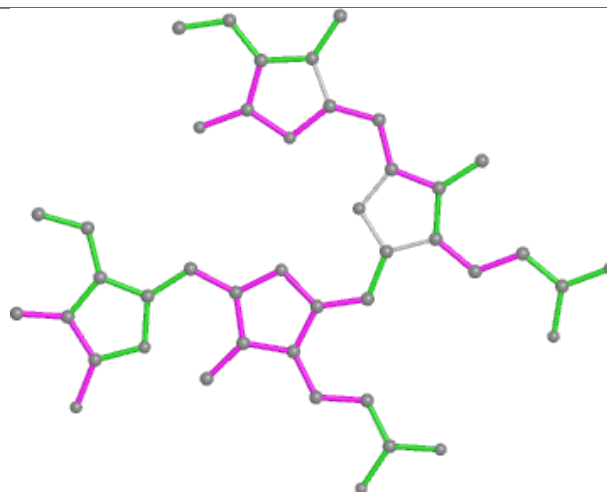
Rings



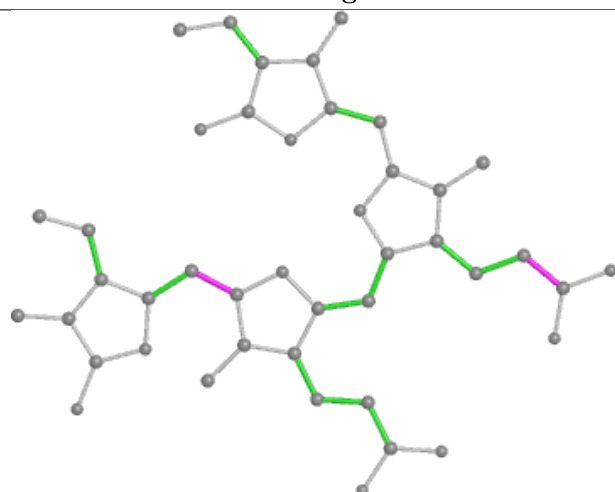
Ligand PEB AO 201



Bond lengths



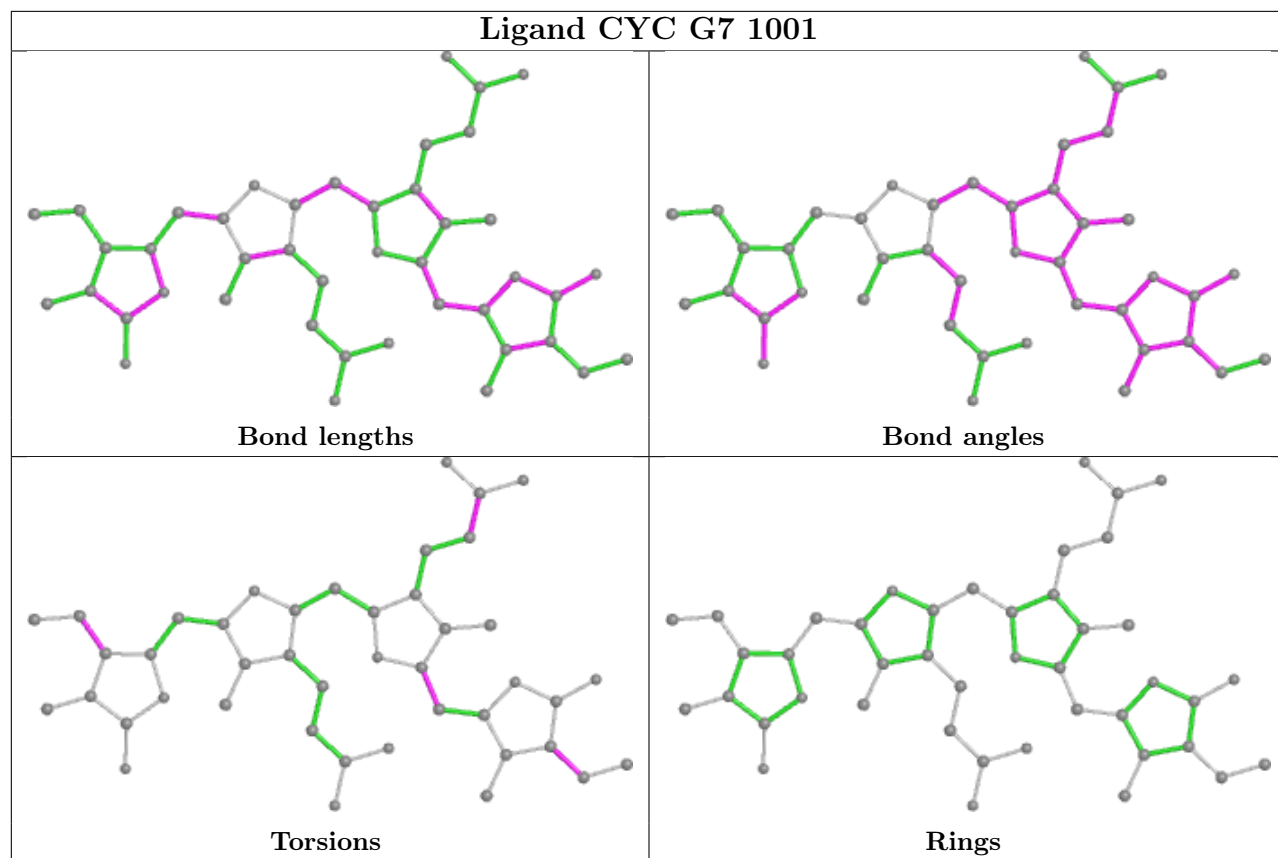
Bond angles



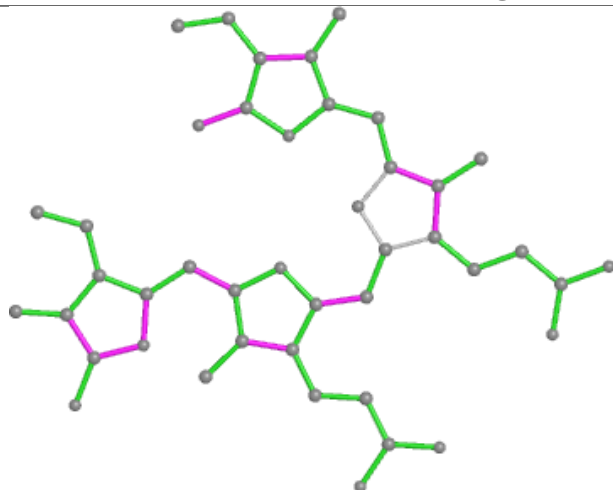
Torsions



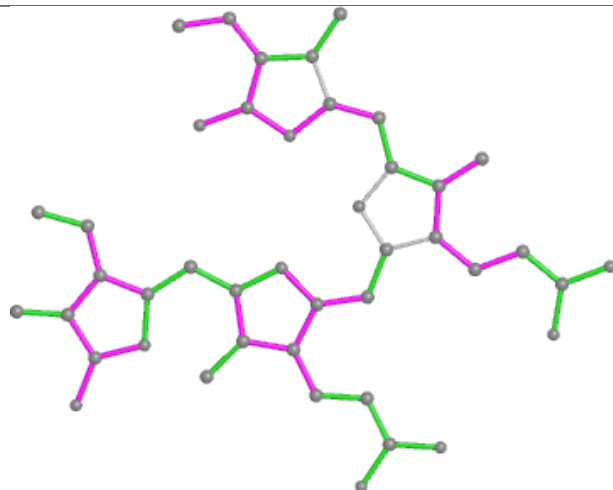
Rings



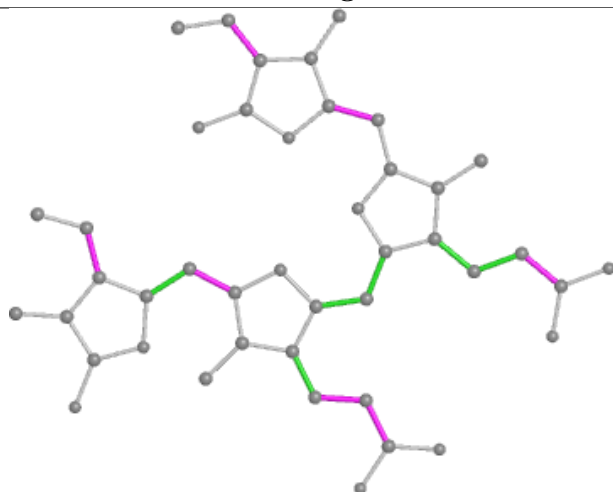
Ligand PEB DF 1002



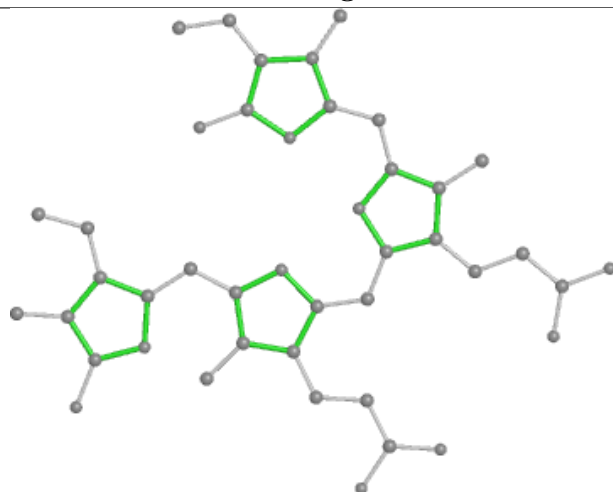
Bond lengths



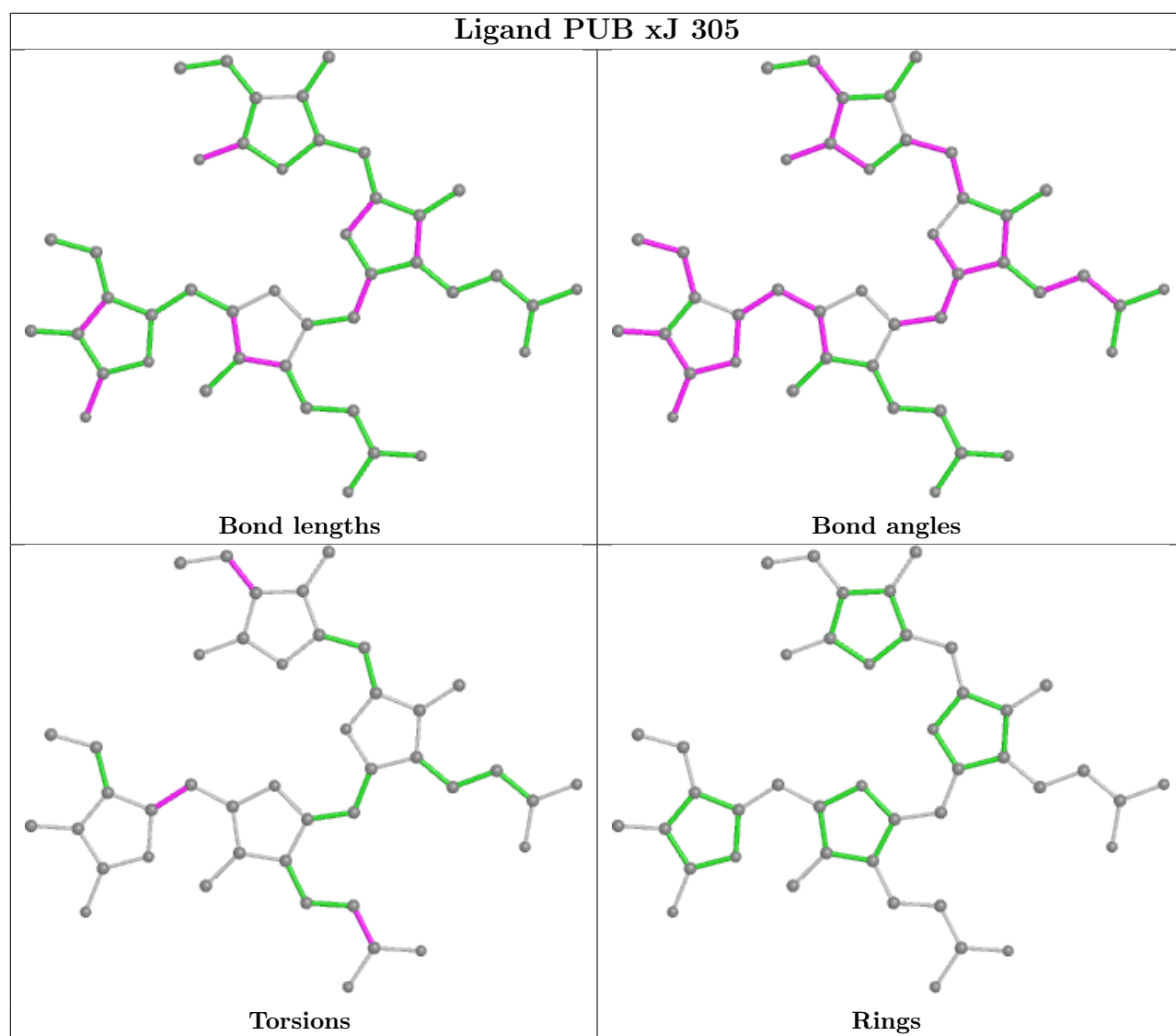
Bond angles

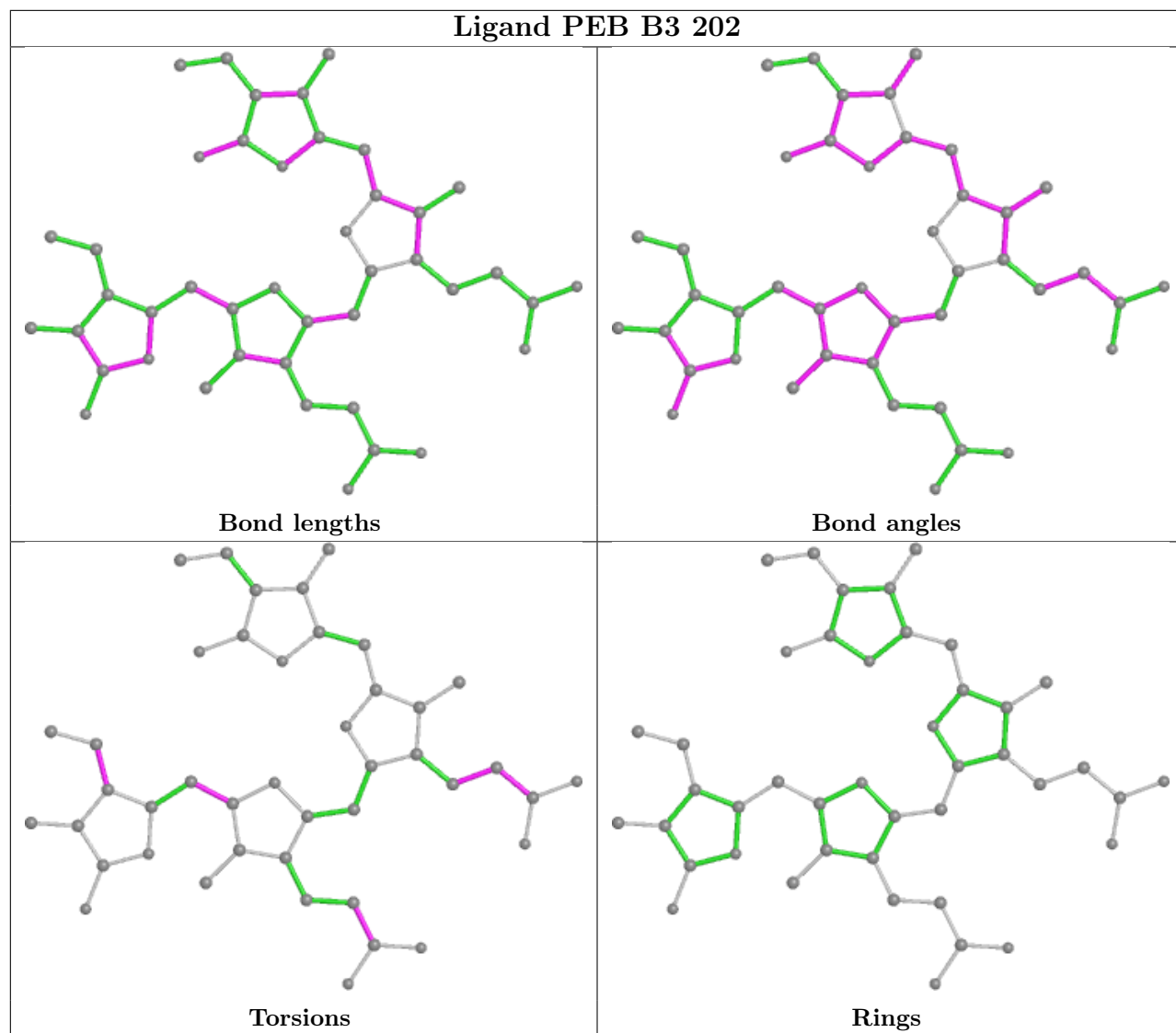


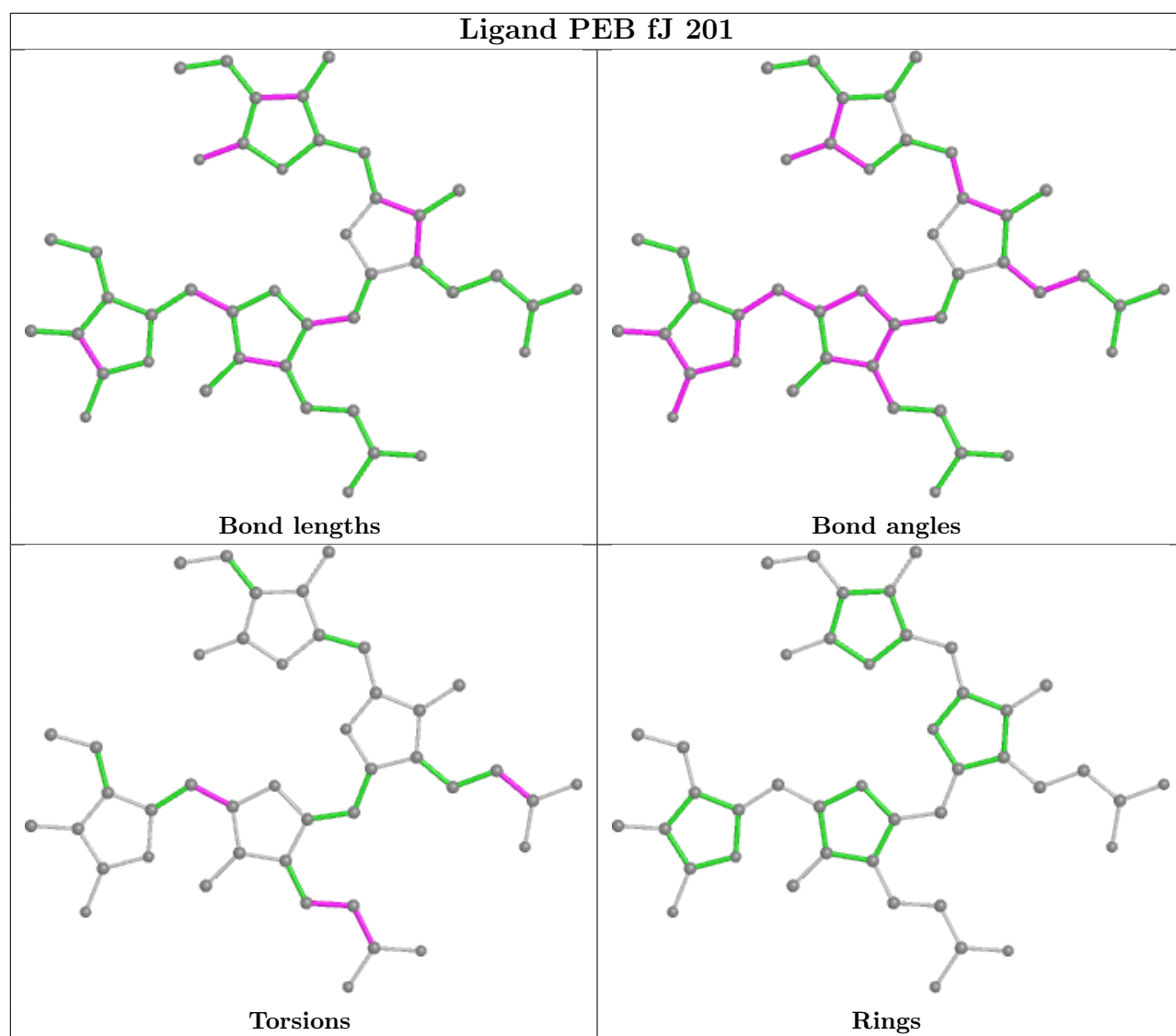
Torsions

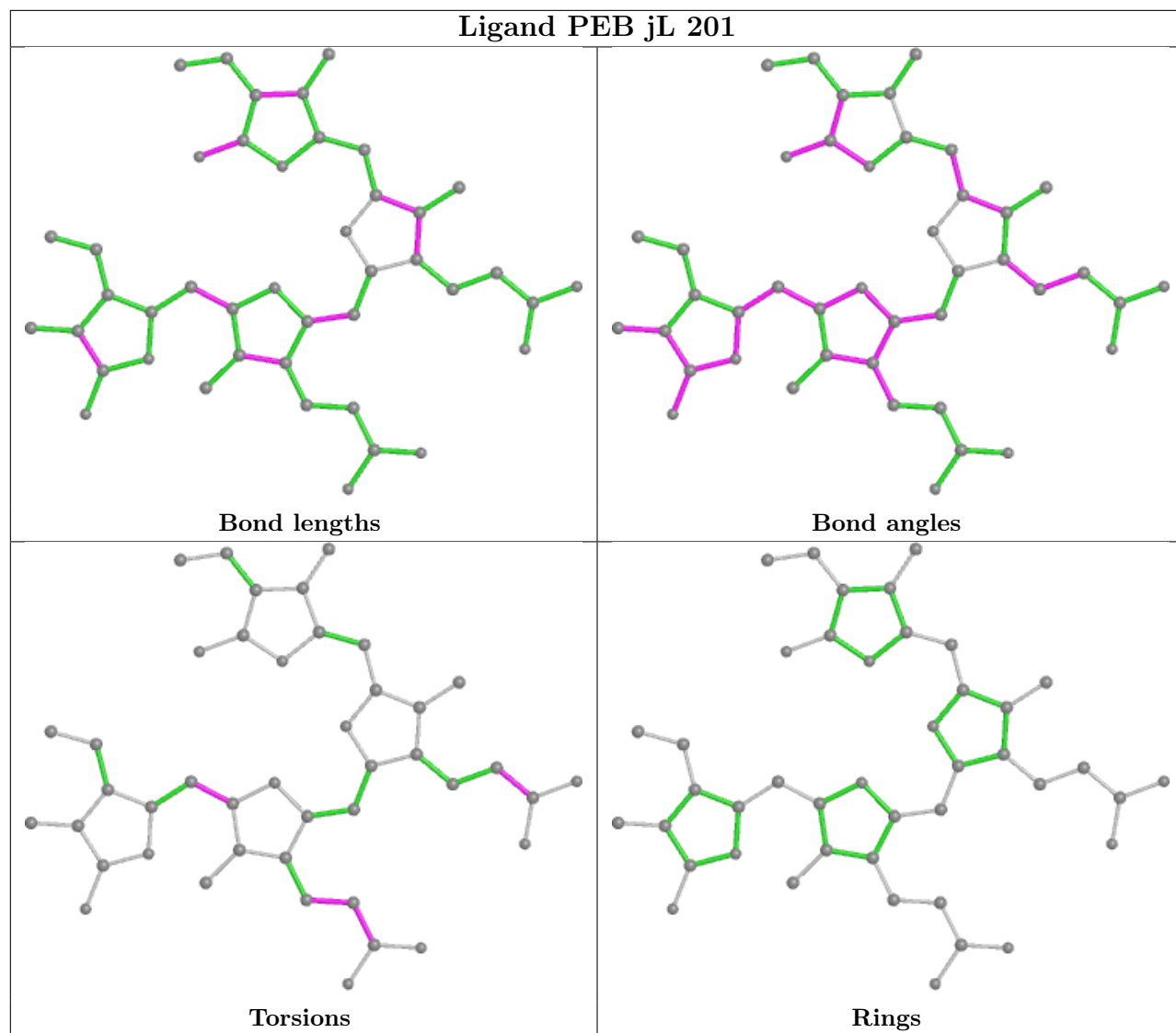


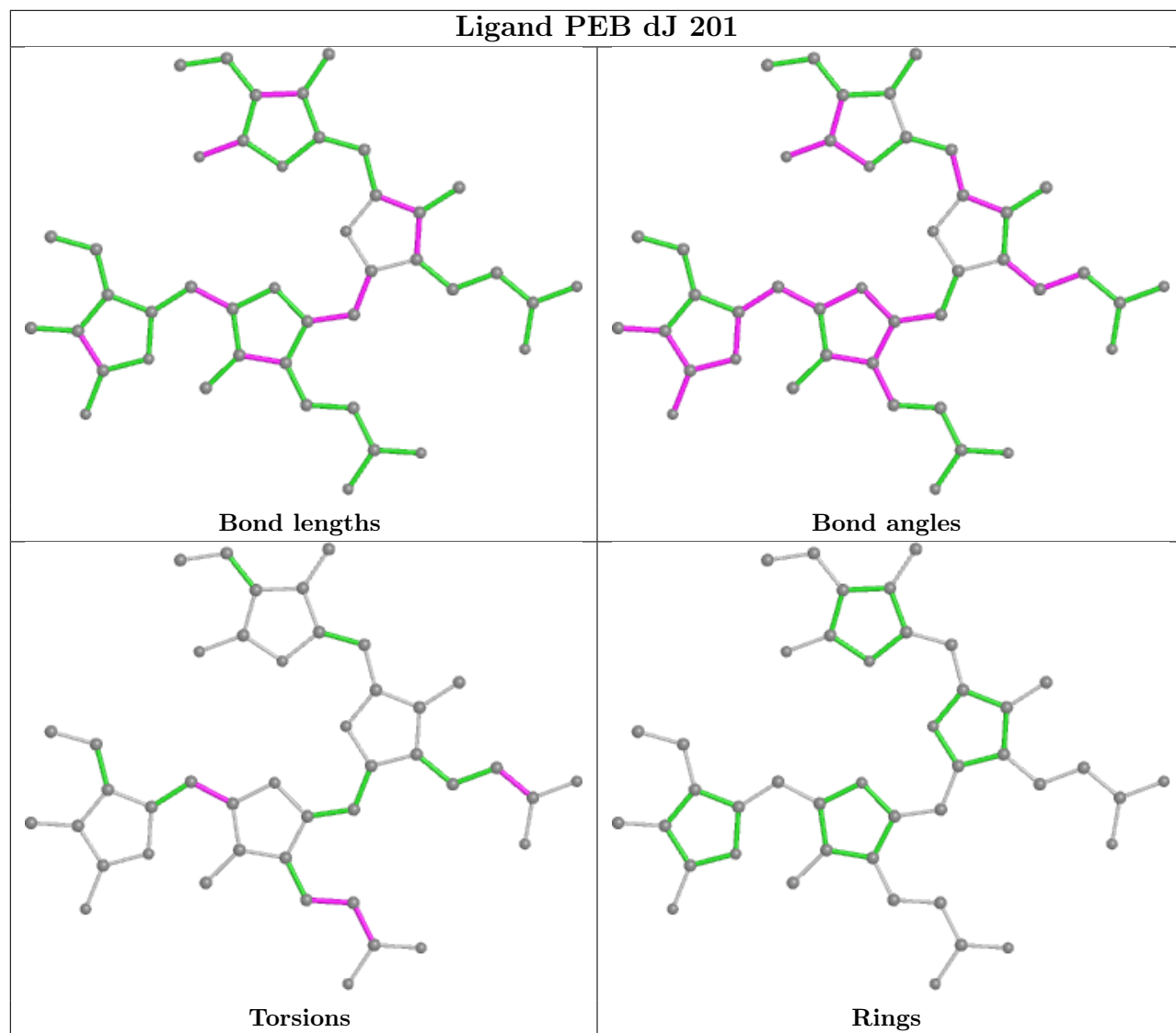
Rings

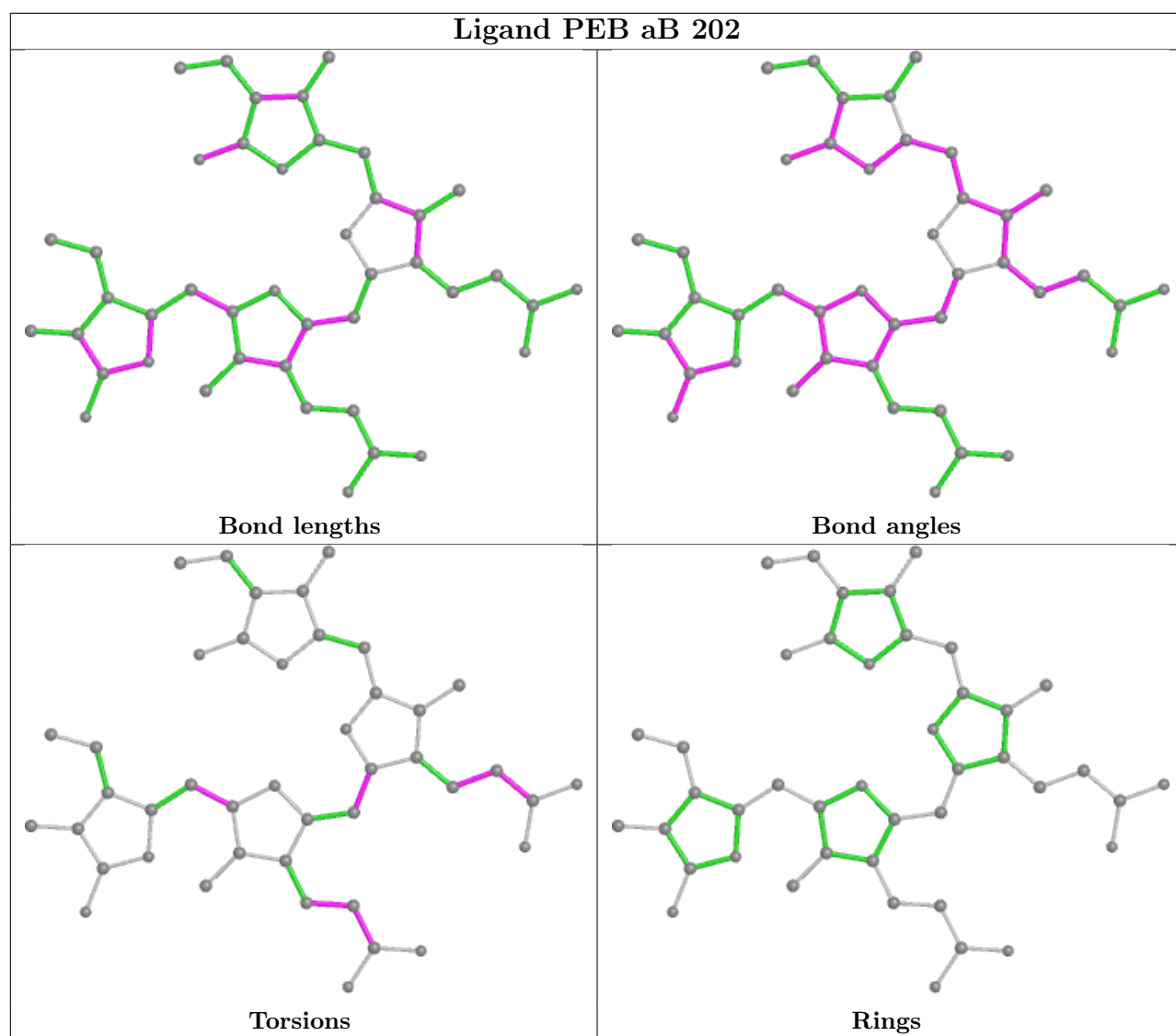


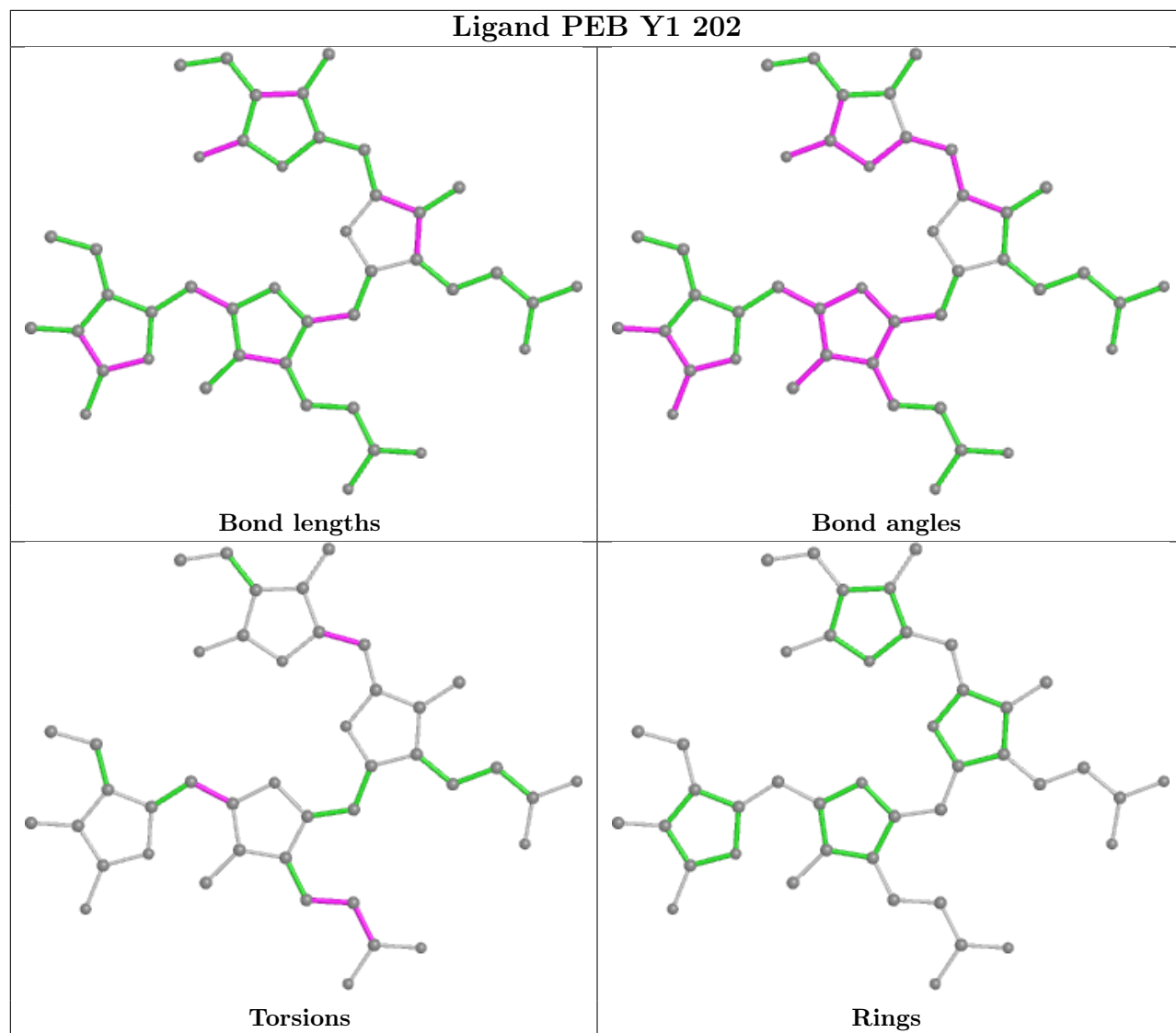


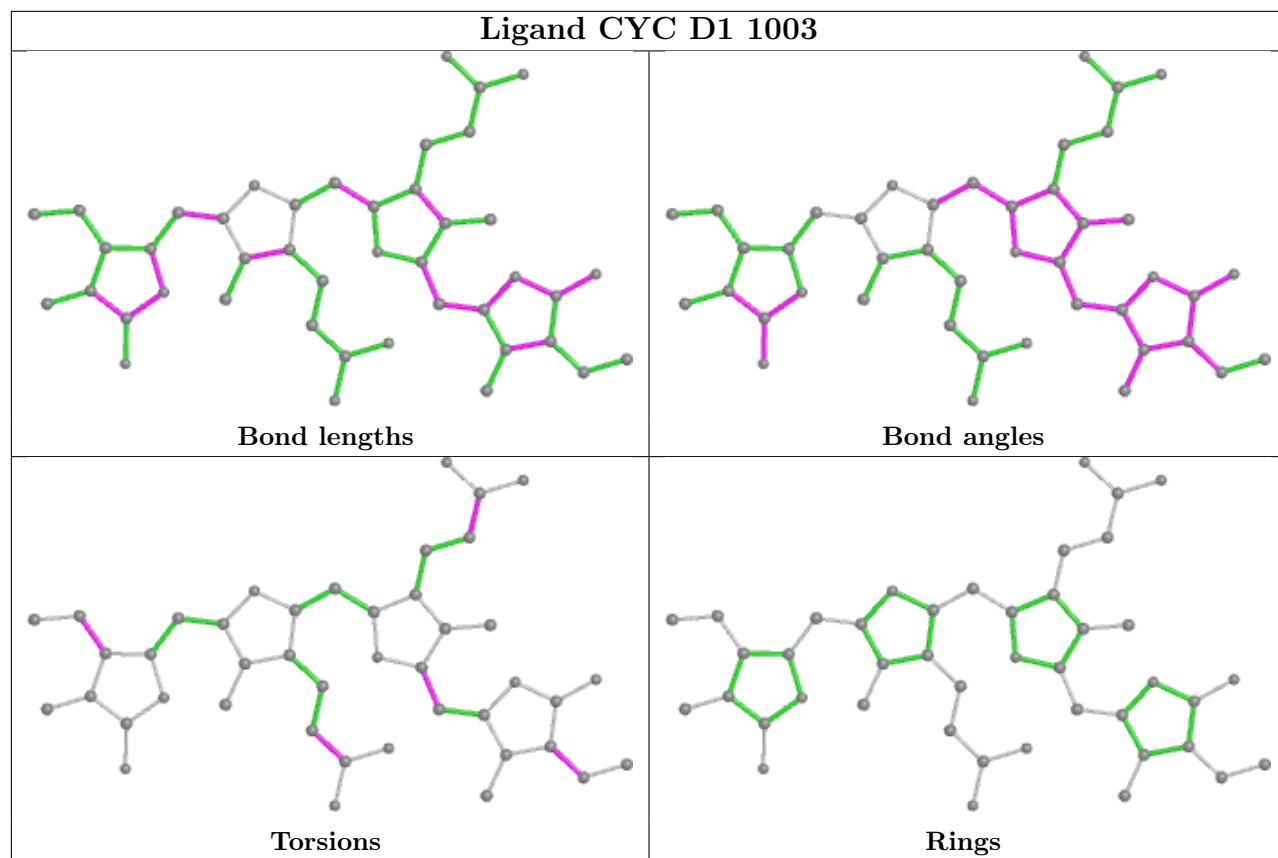




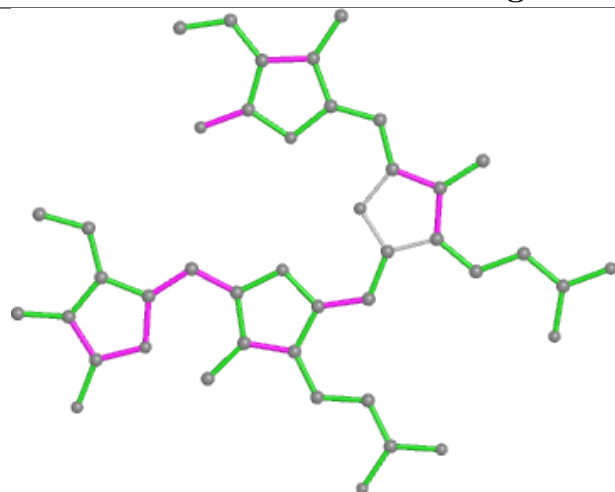




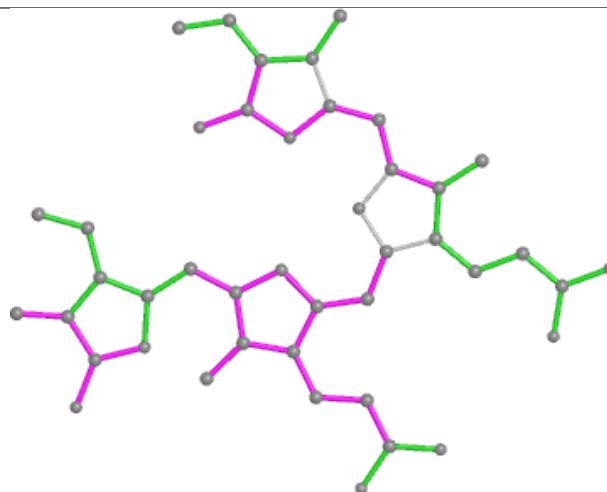




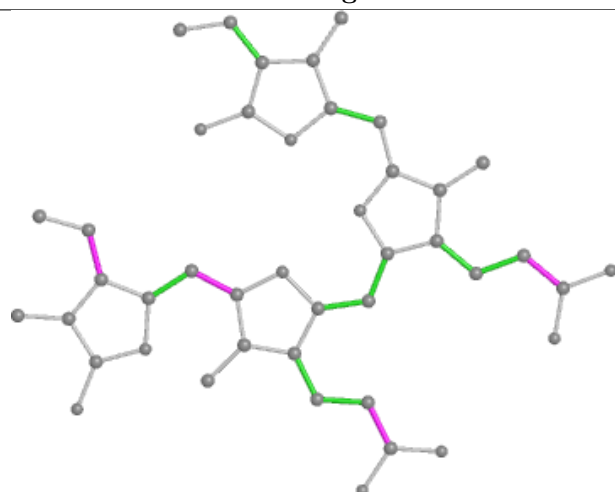
Ligand PEB U9 201



Bond lengths



Bond angles

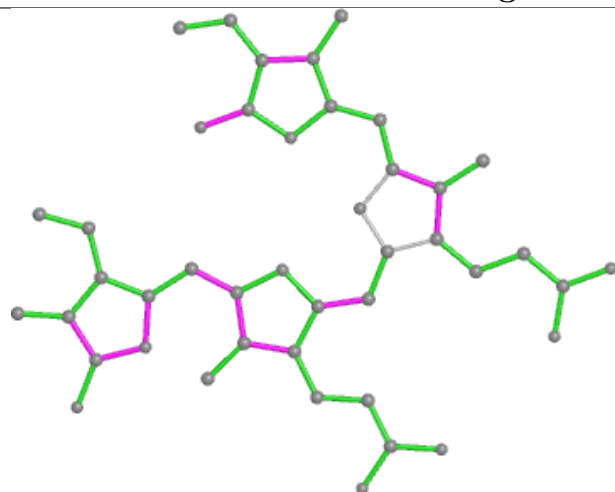


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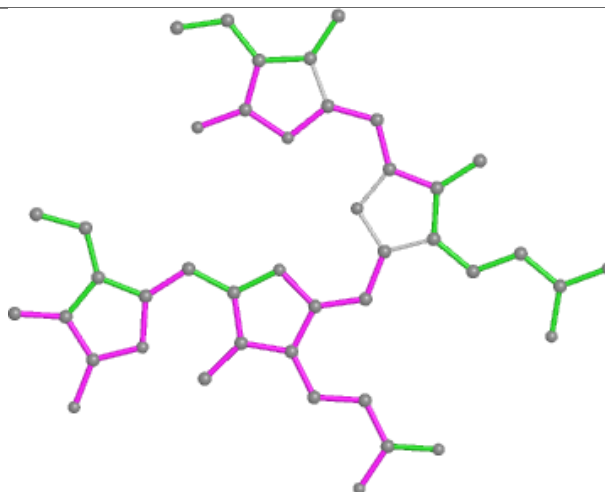


Rings

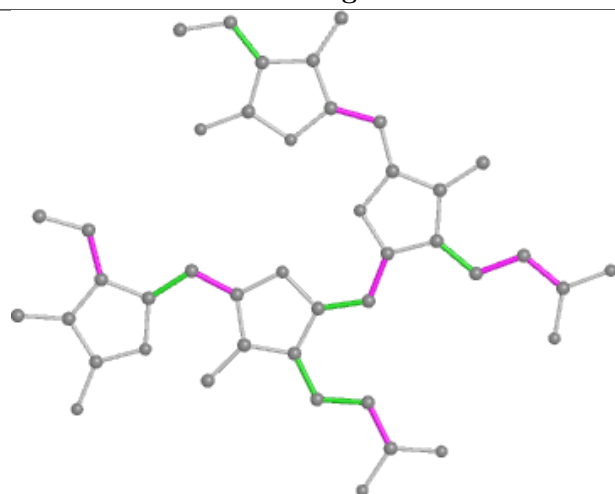
Ligand PEB NM 202



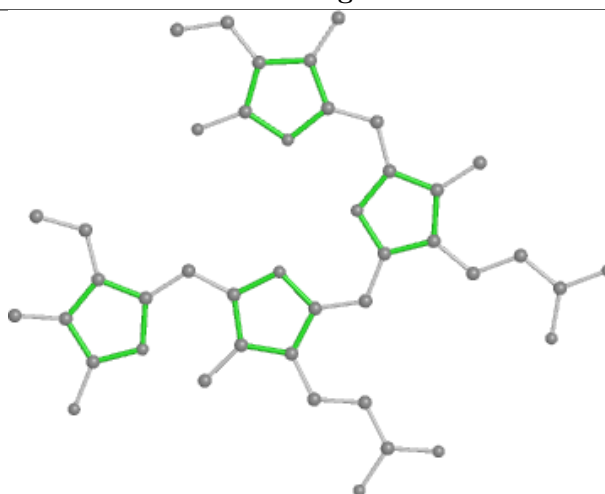
Bond lengths



Bond angles

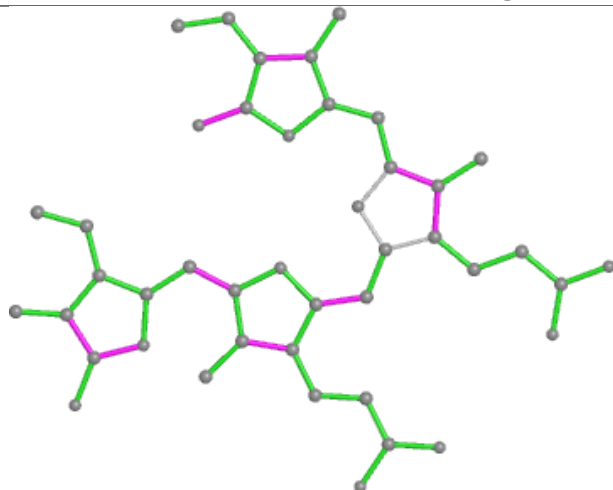


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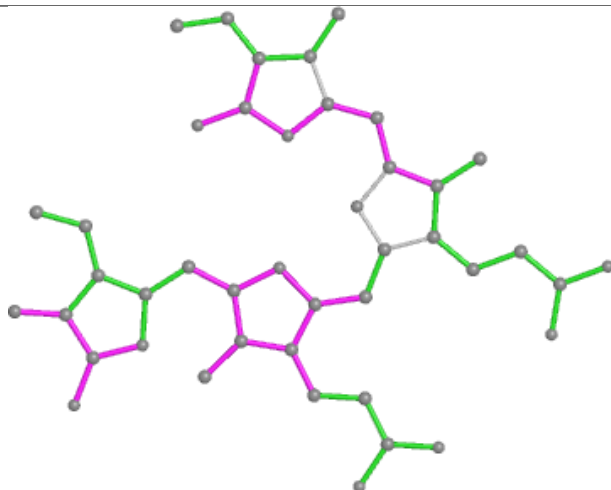


Rings

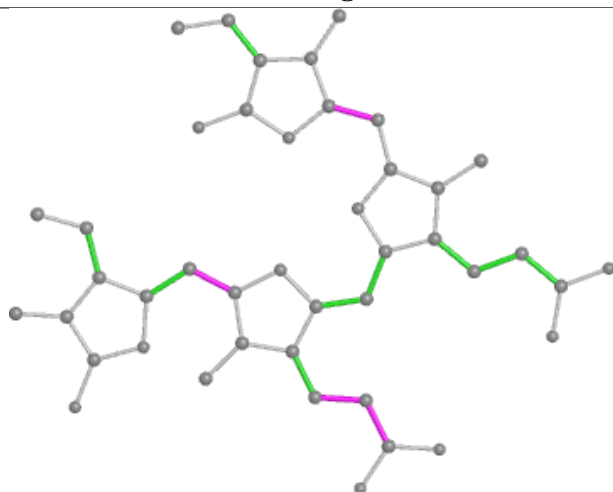
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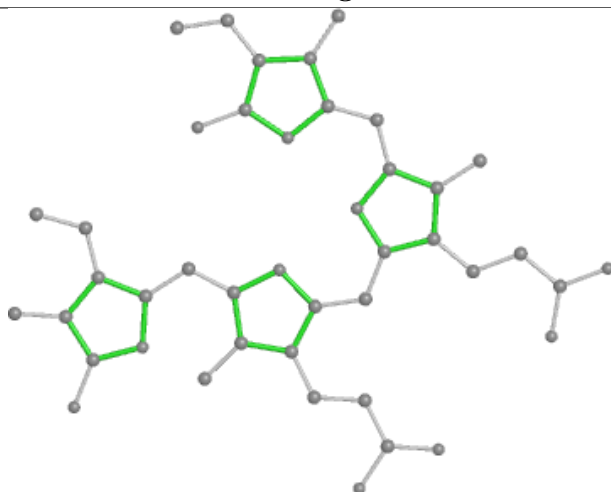
Bond lengths



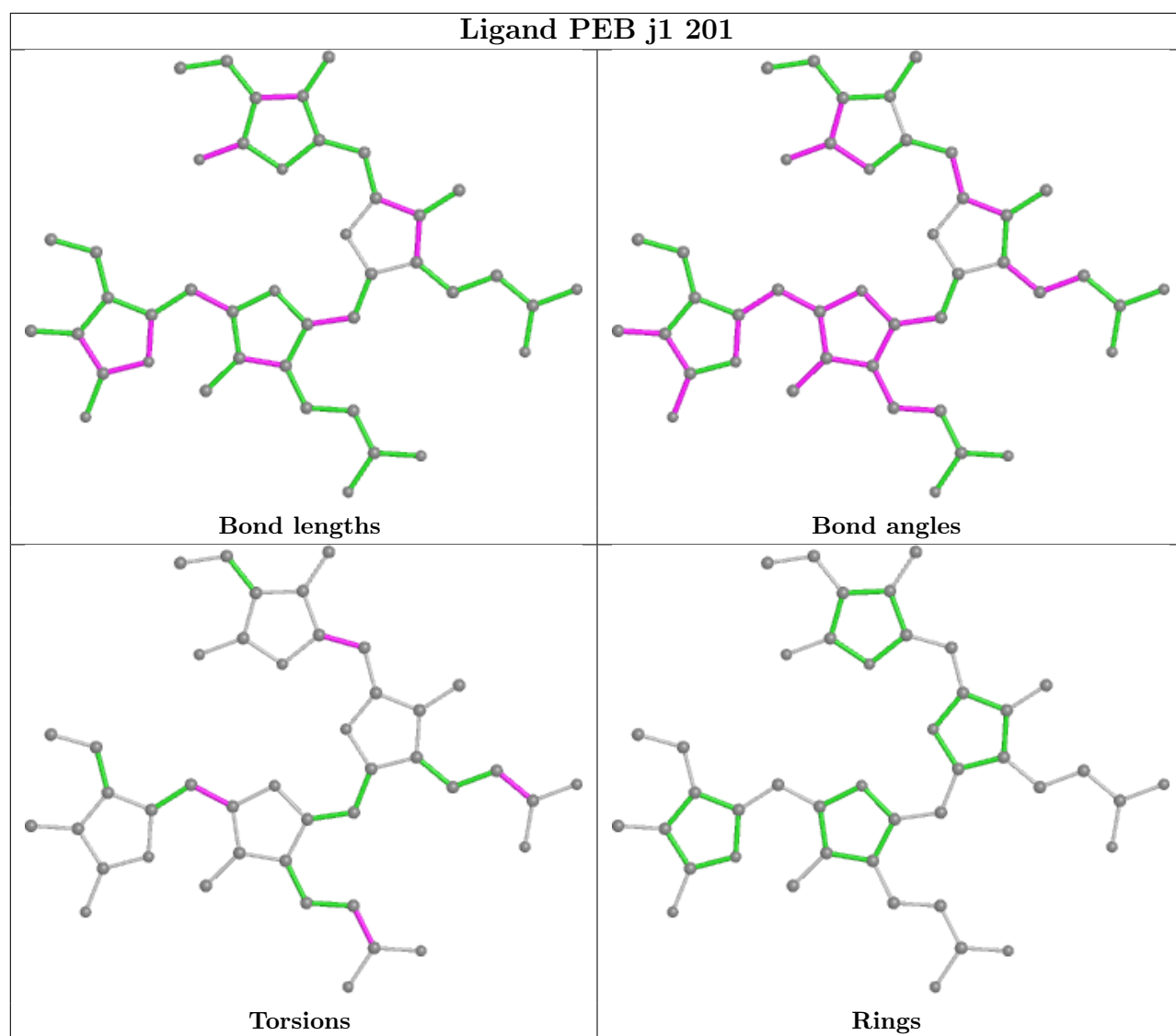
Bond angles

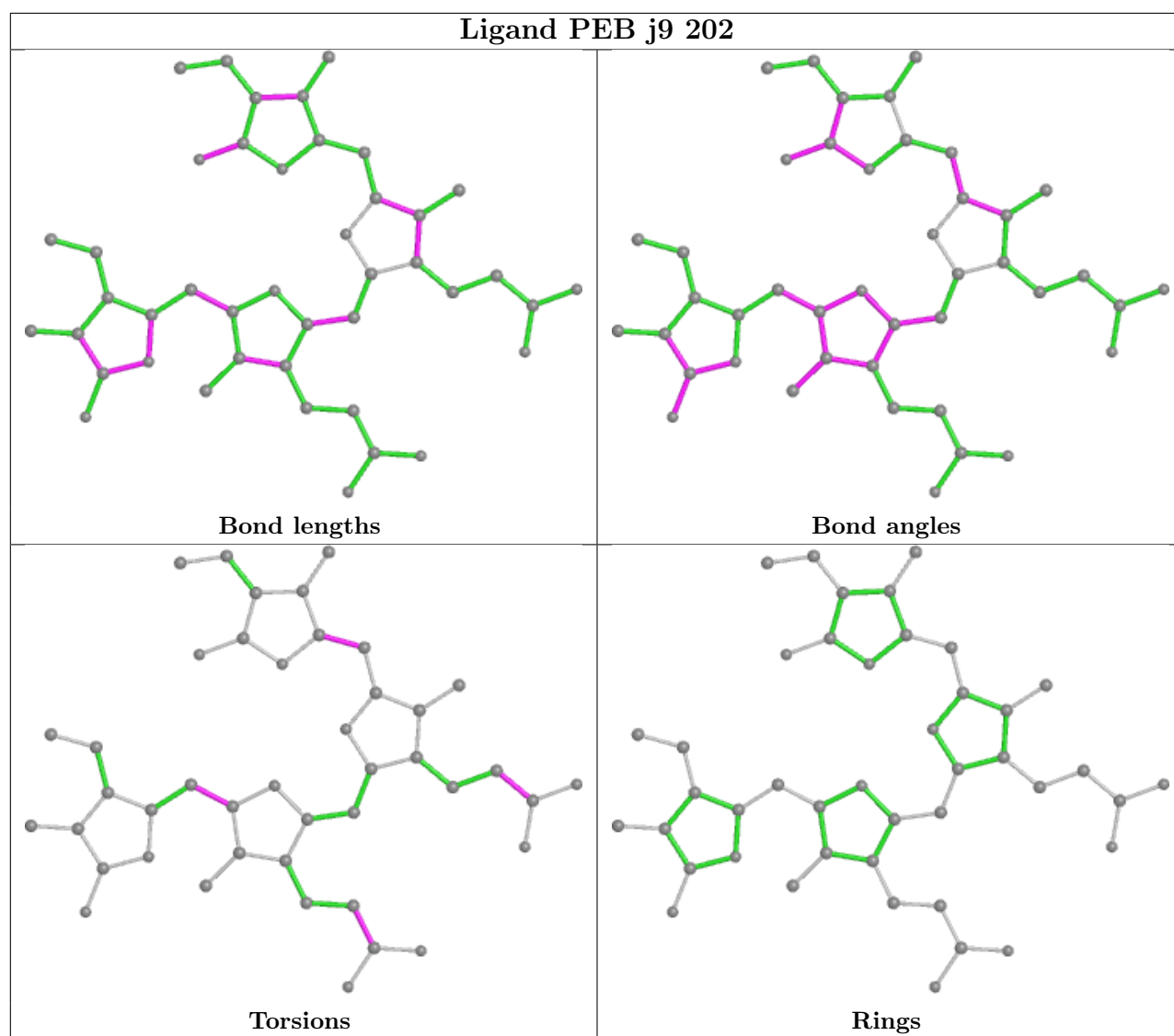


Torsions

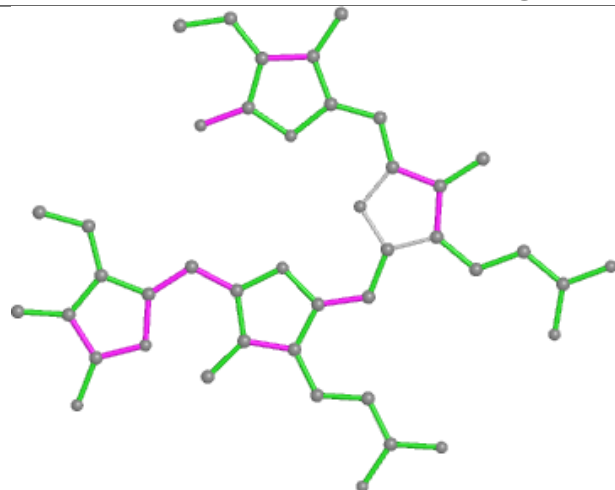


Rings

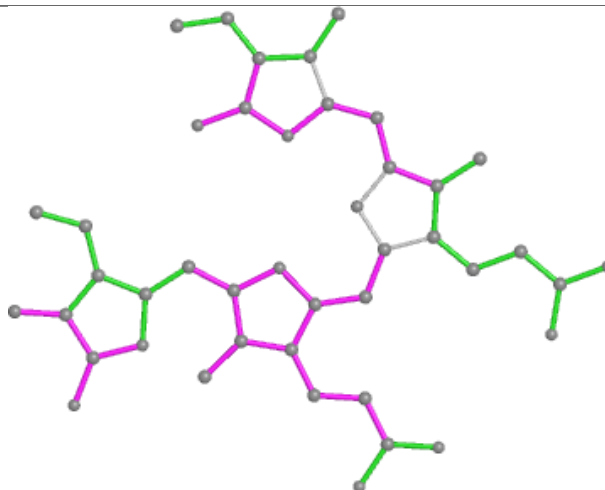




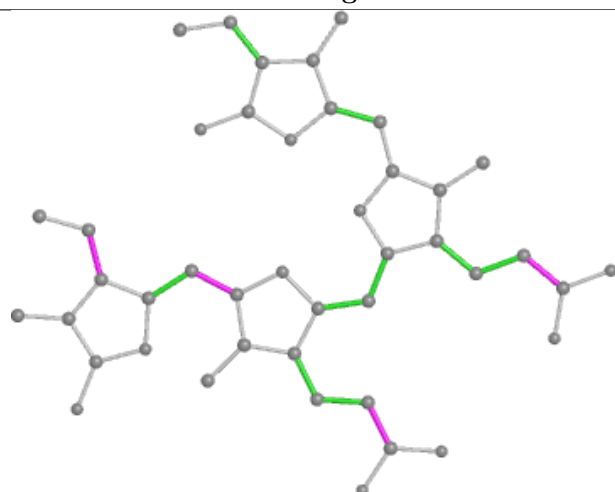
Ligand PEB 19 201



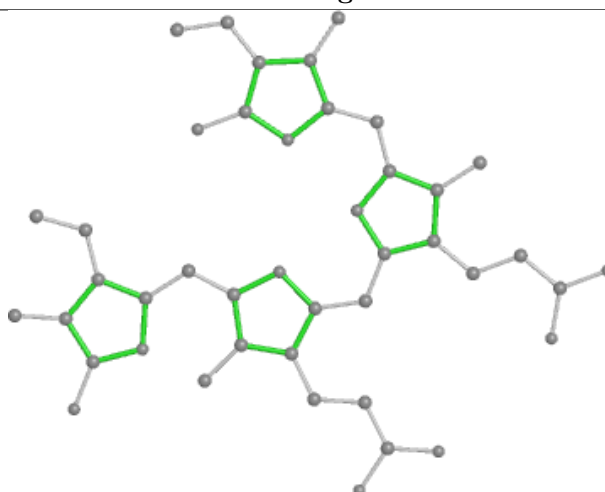
Bond lengths



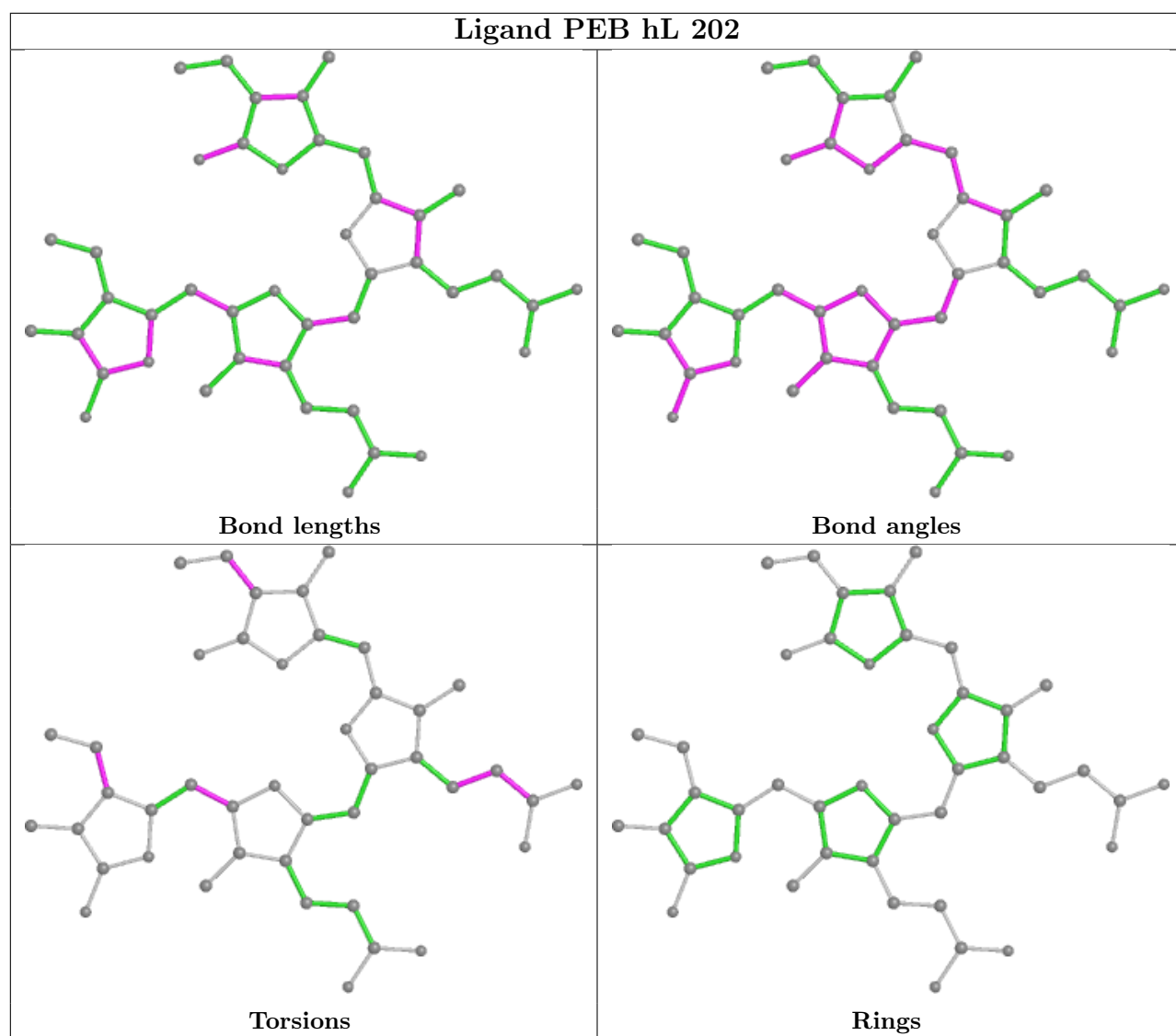
Bond angles



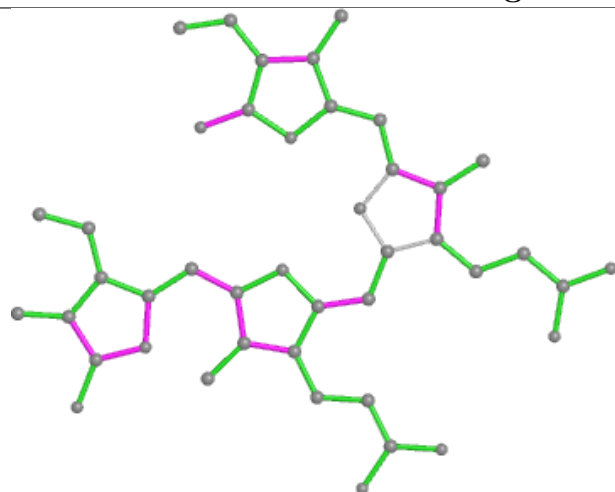
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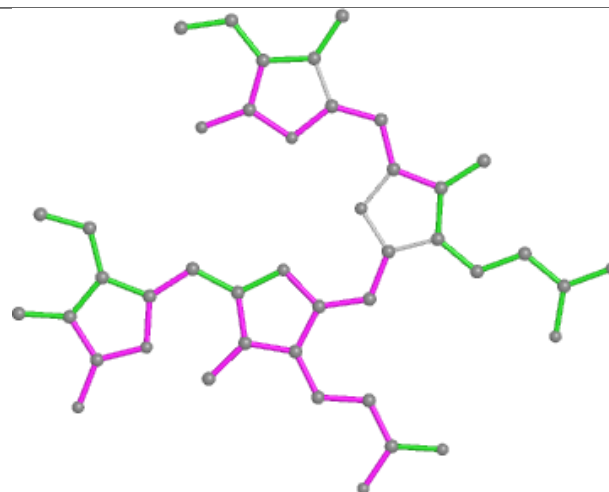
Rings



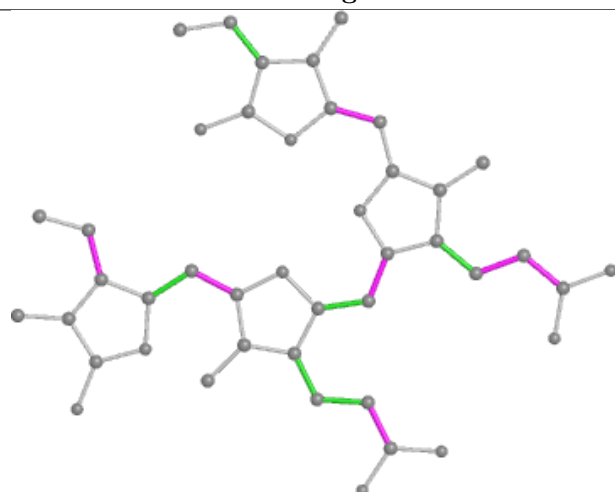
Ligand PEB TB 203



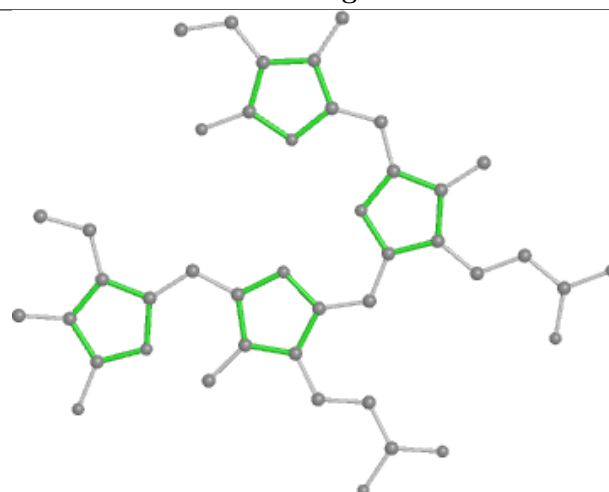
Bond lengths



Bond angles

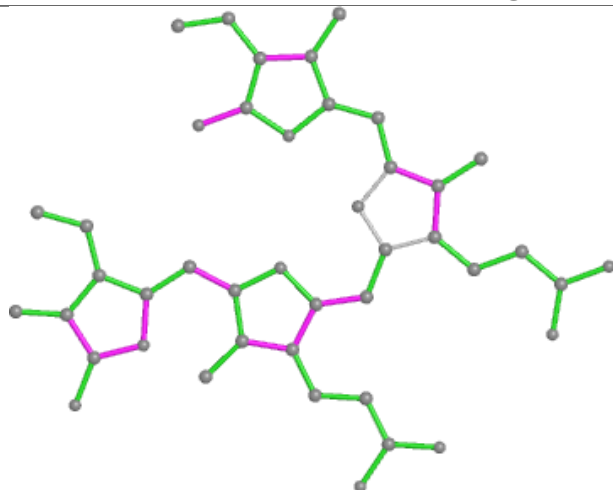


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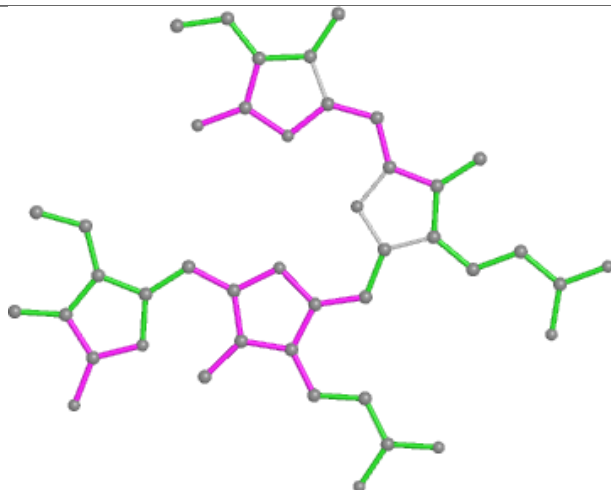


Rings

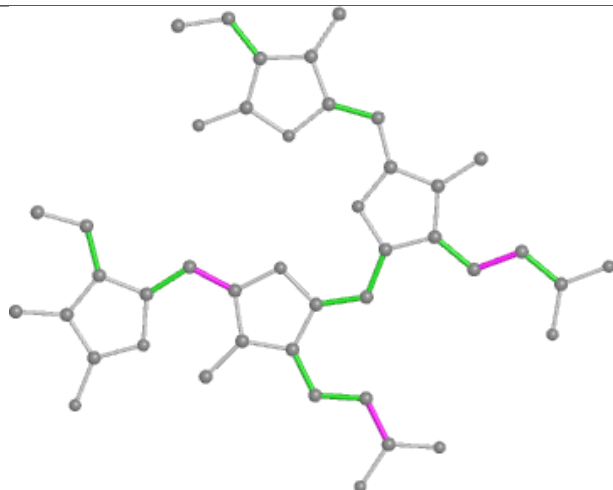
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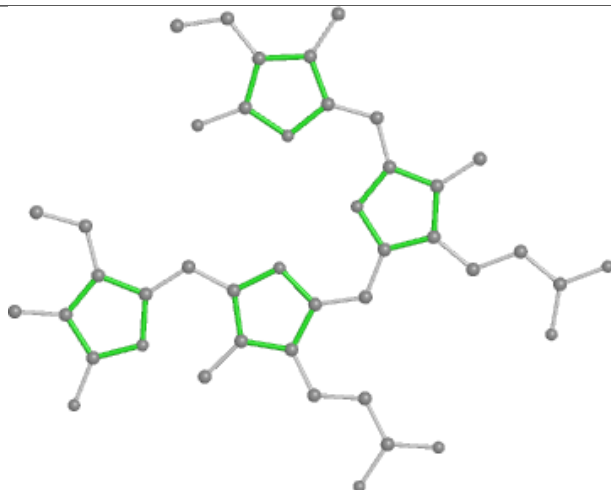
Bond lengths



Bond angles

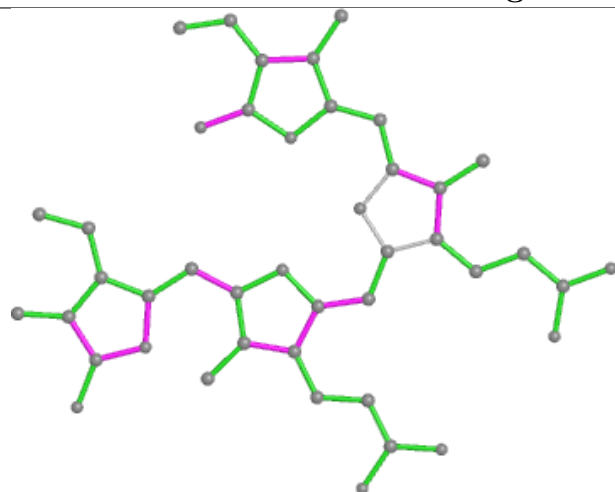


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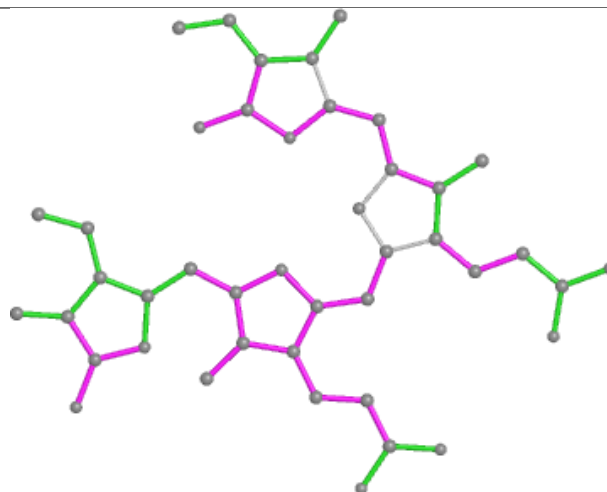


Rings

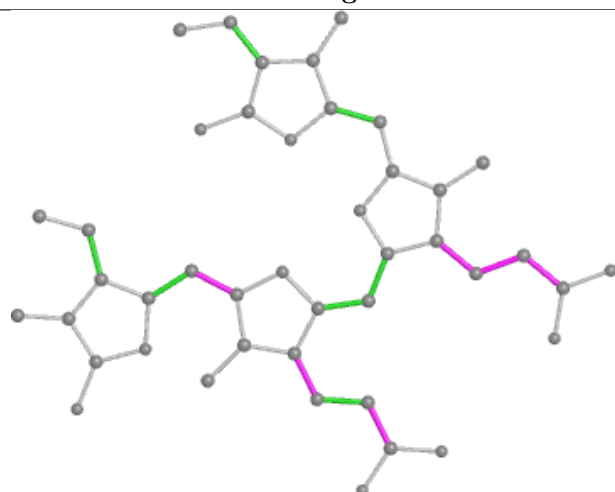
Ligand PEB PF 201



Bond lengths



Bond angles

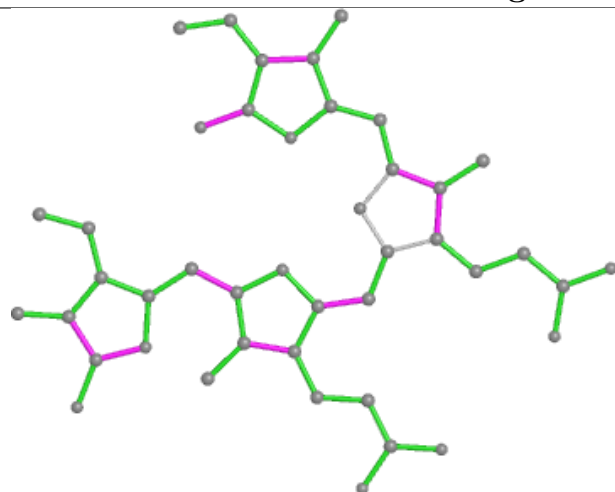


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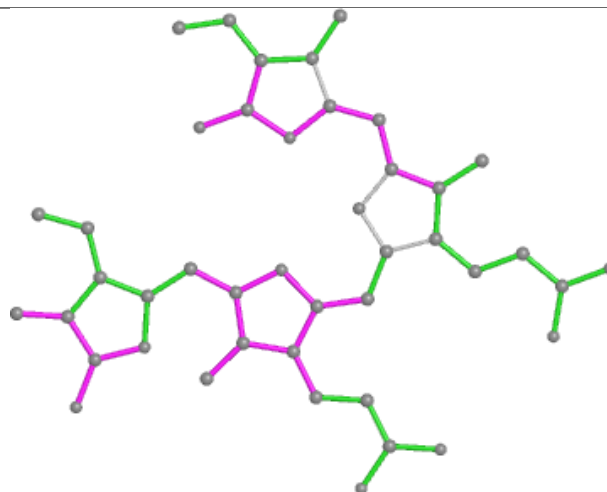


Rings

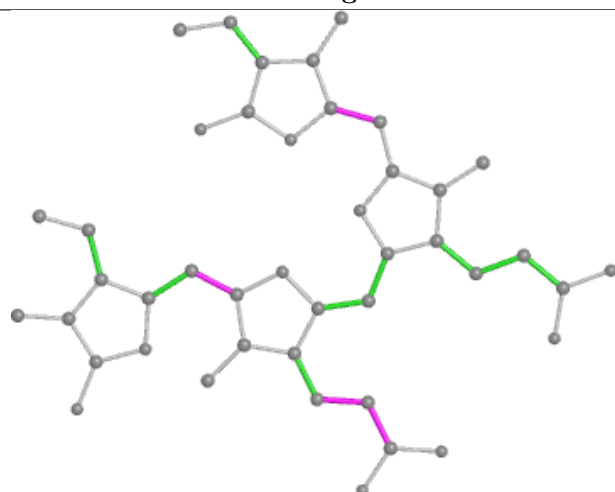
Ligand PEB T1 202



Bond lengths



Bond angles

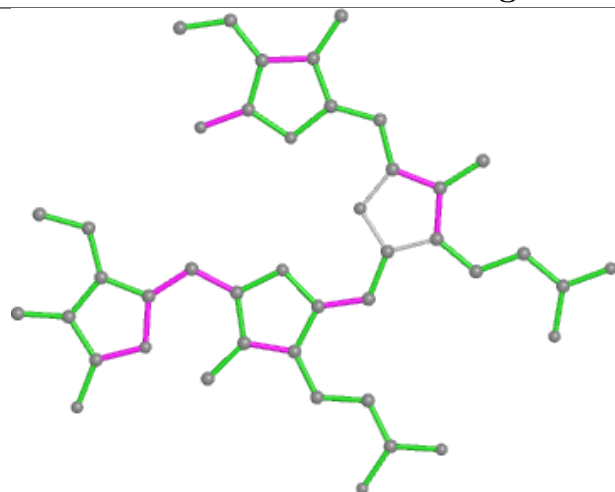


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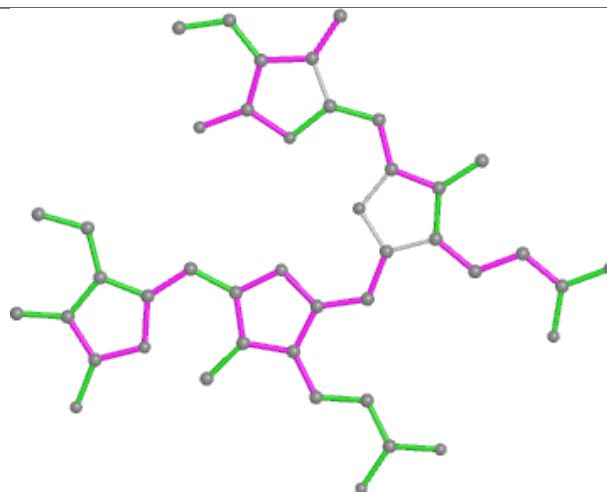


Rings

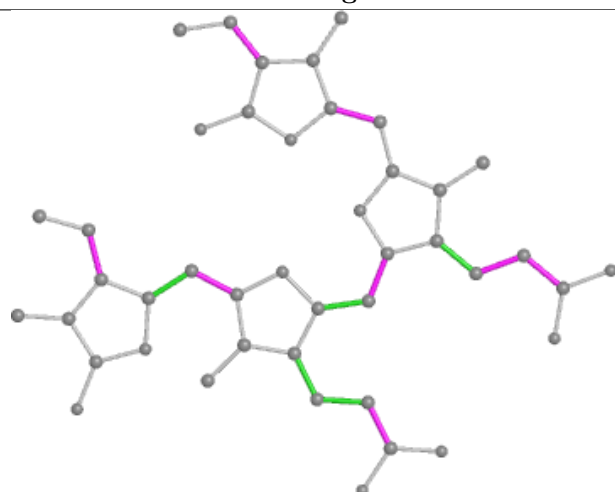
Ligand PEB MD 202



Bond lengths



Bond angles

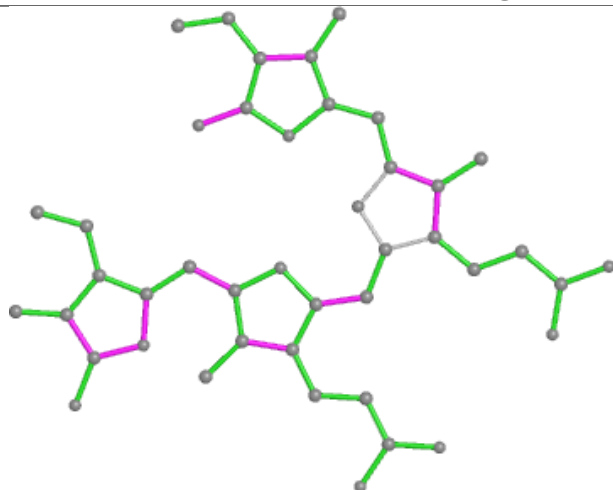


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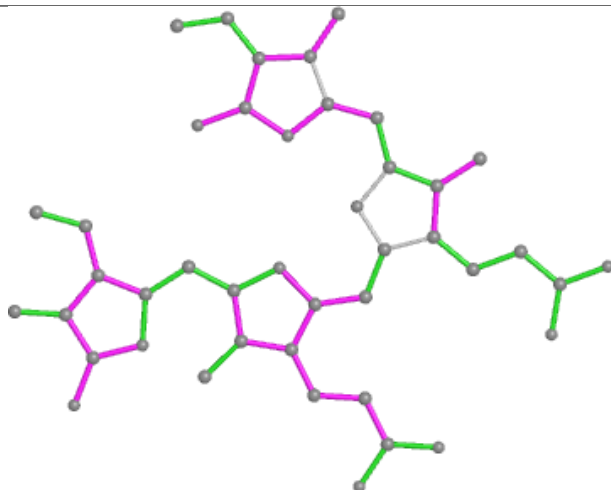


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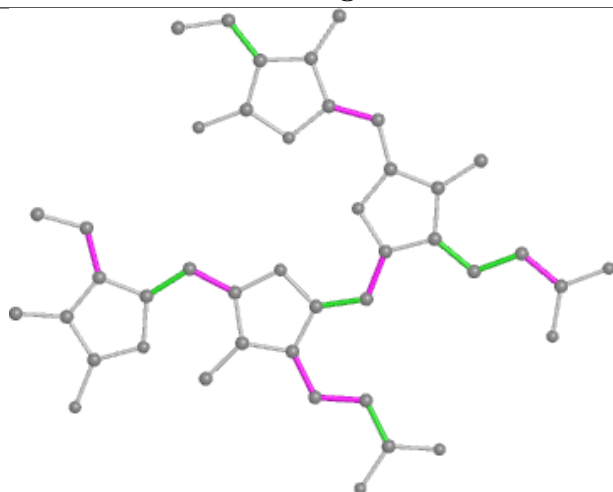
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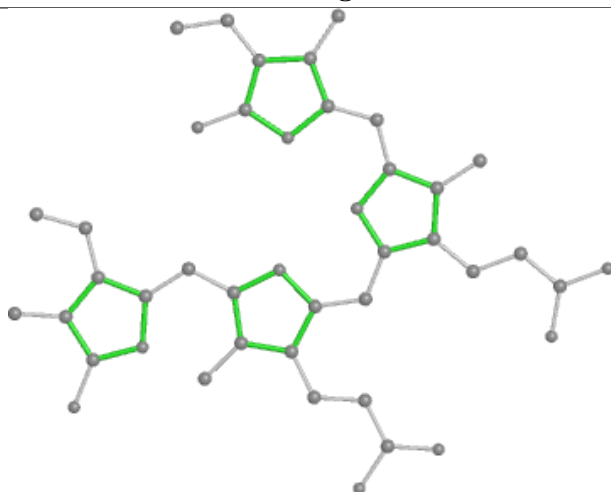
Bond lengths



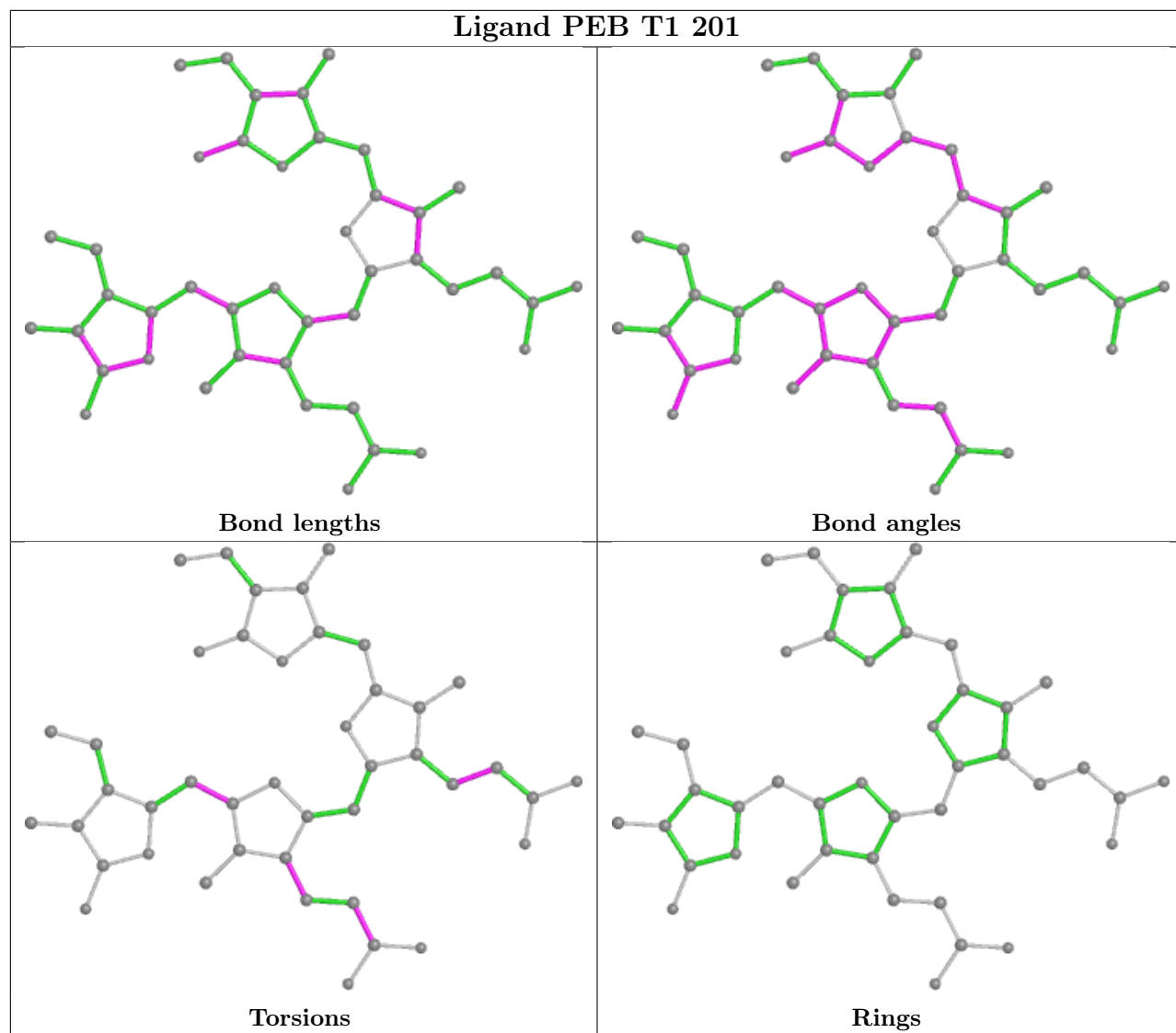
Bond angles

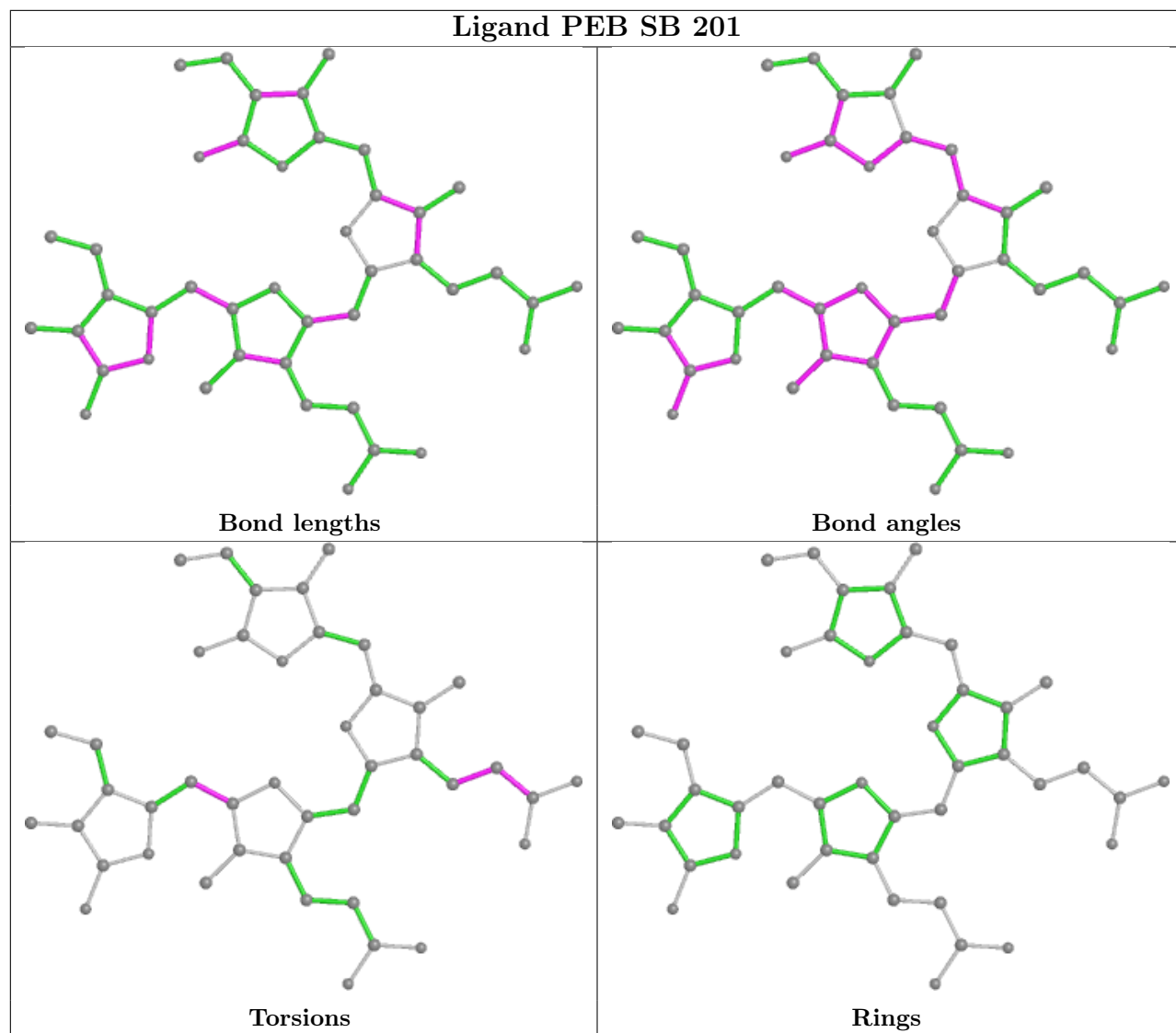


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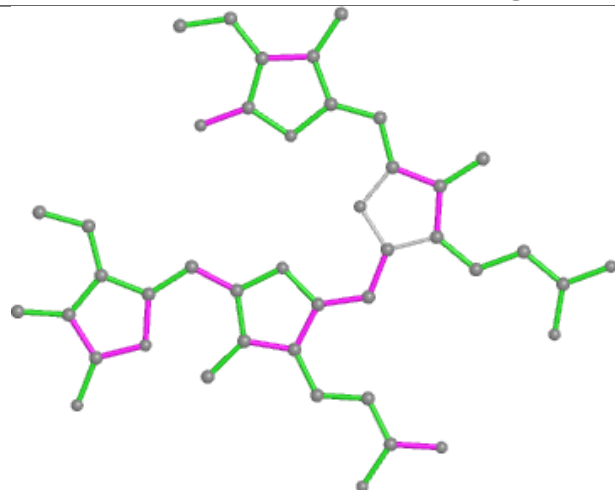


Rings

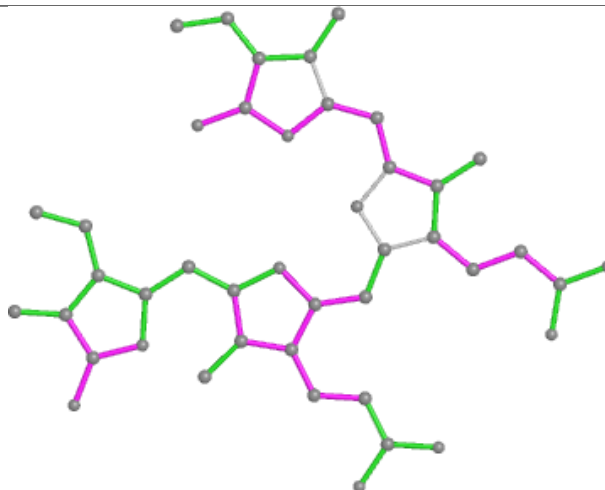




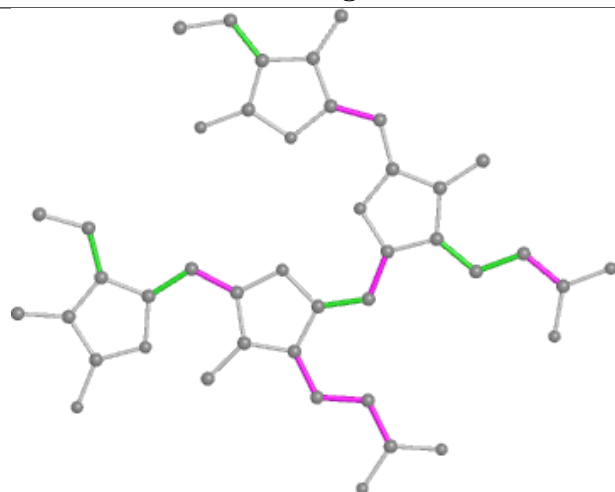
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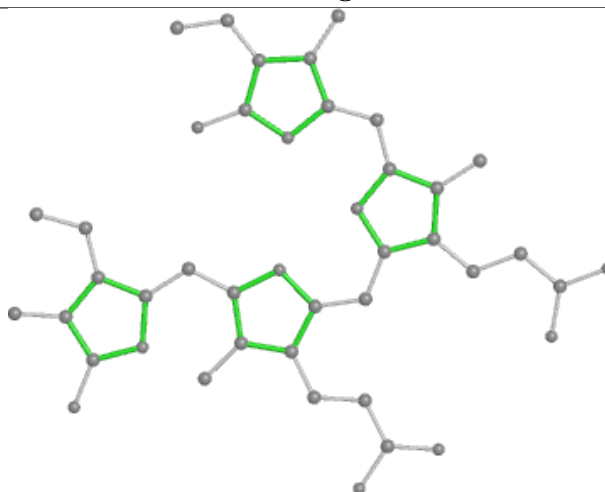
Bond lengths



Bond angles

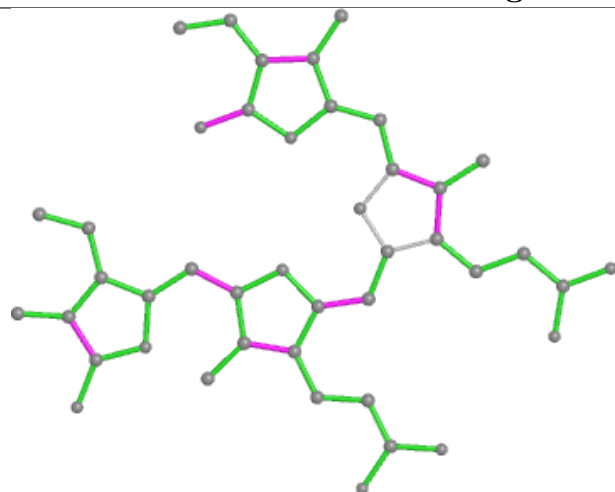


Torsions

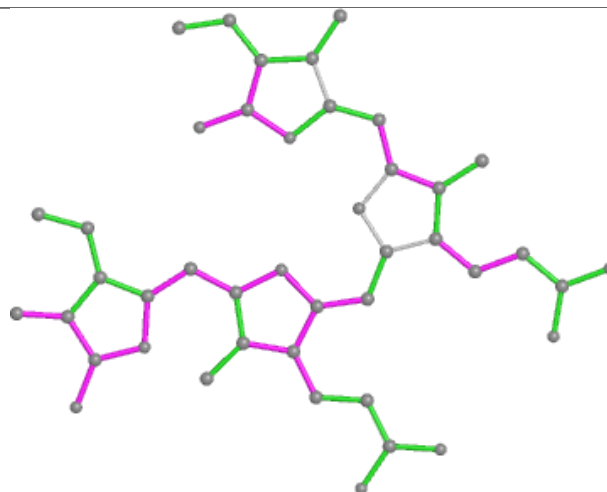


Rings

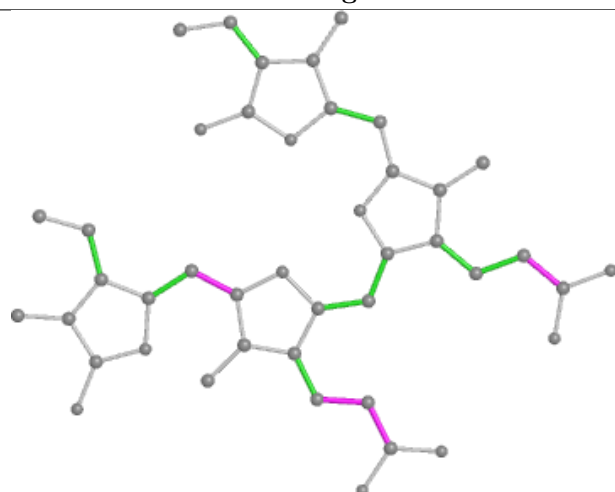
Ligand PEB RL 201



Bond lengths



Bond angles

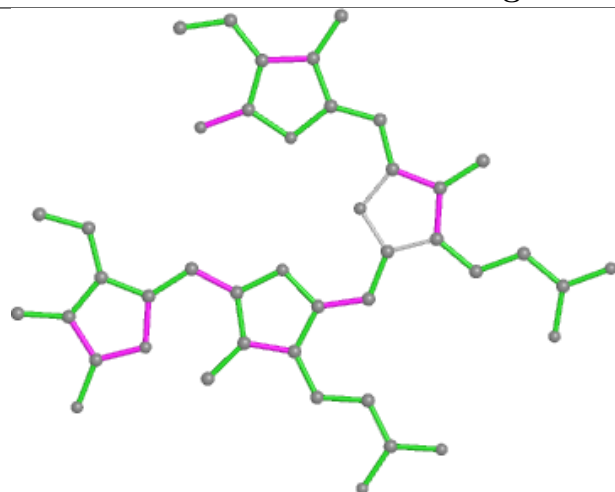


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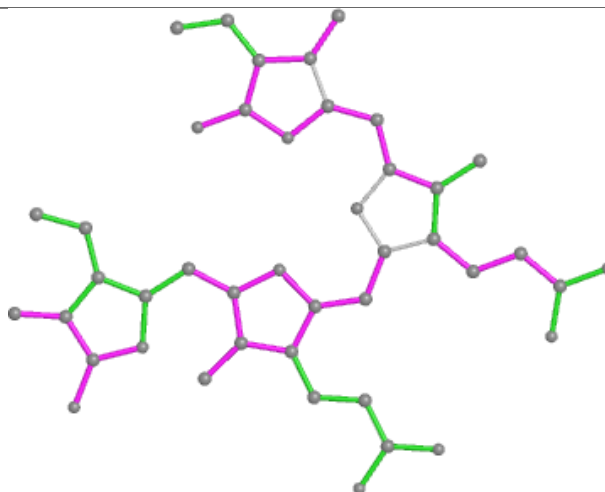


Rings

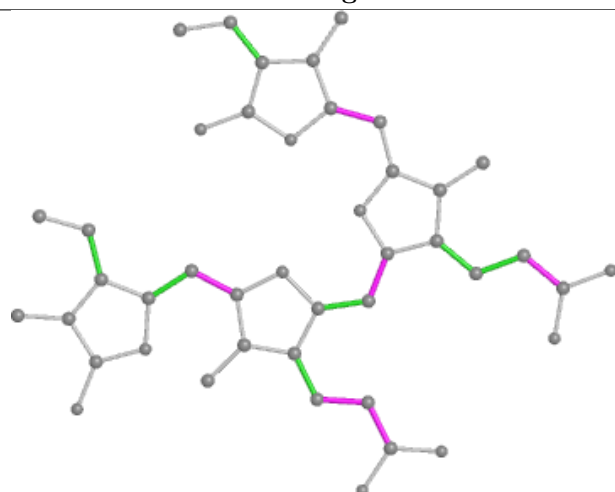
Ligand PEB CD 203



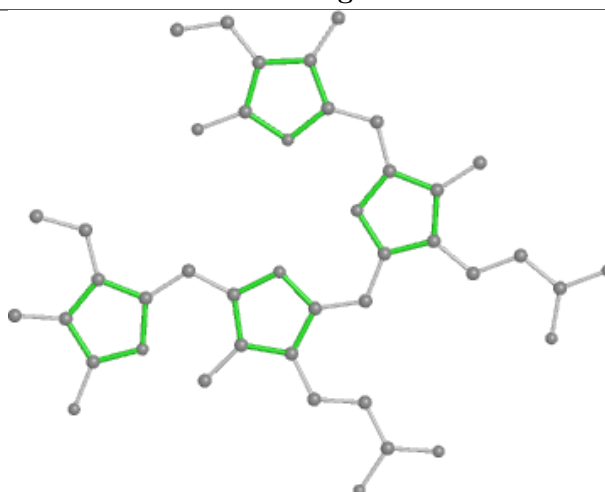
Bond lengths



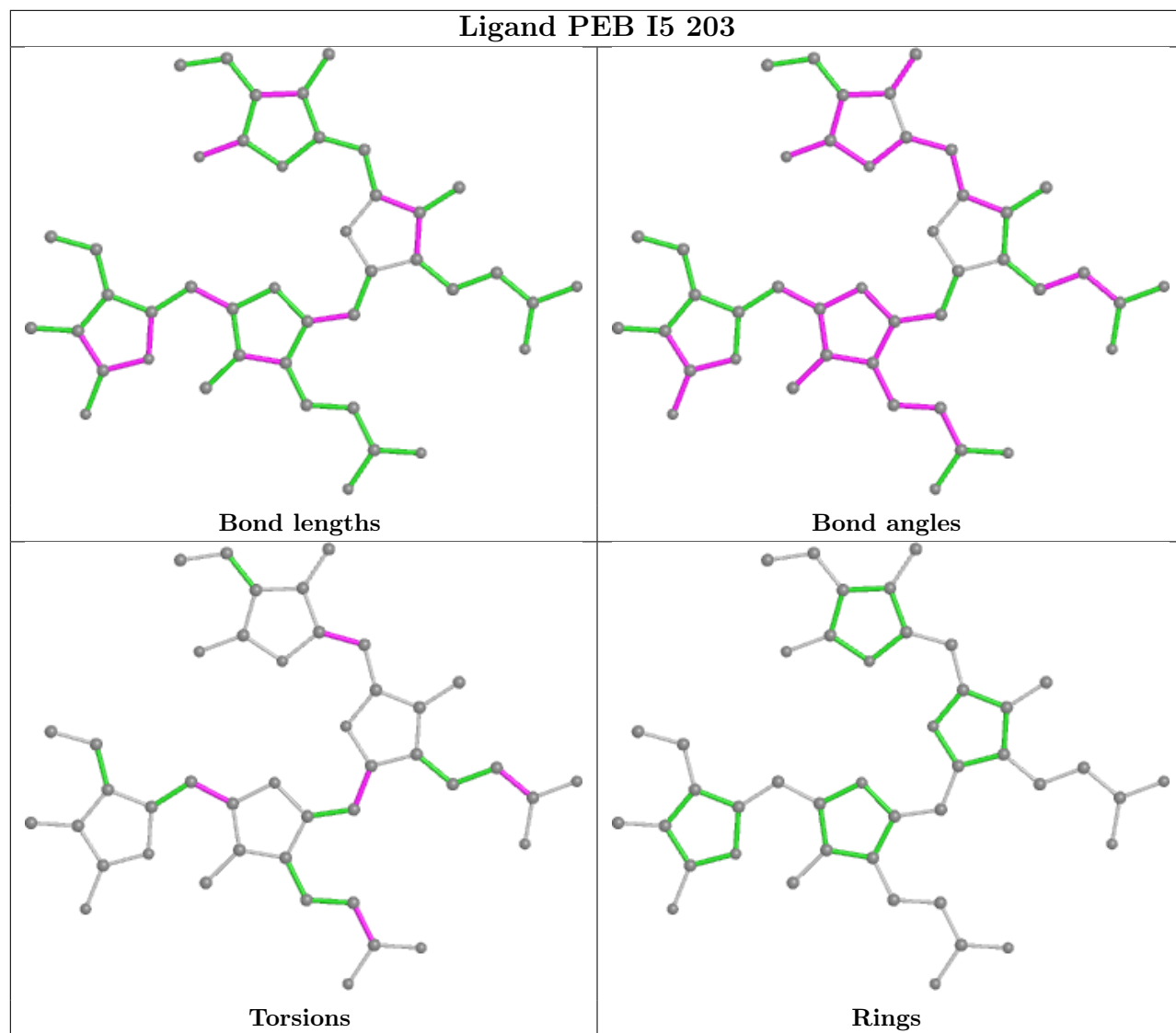
Bond angles

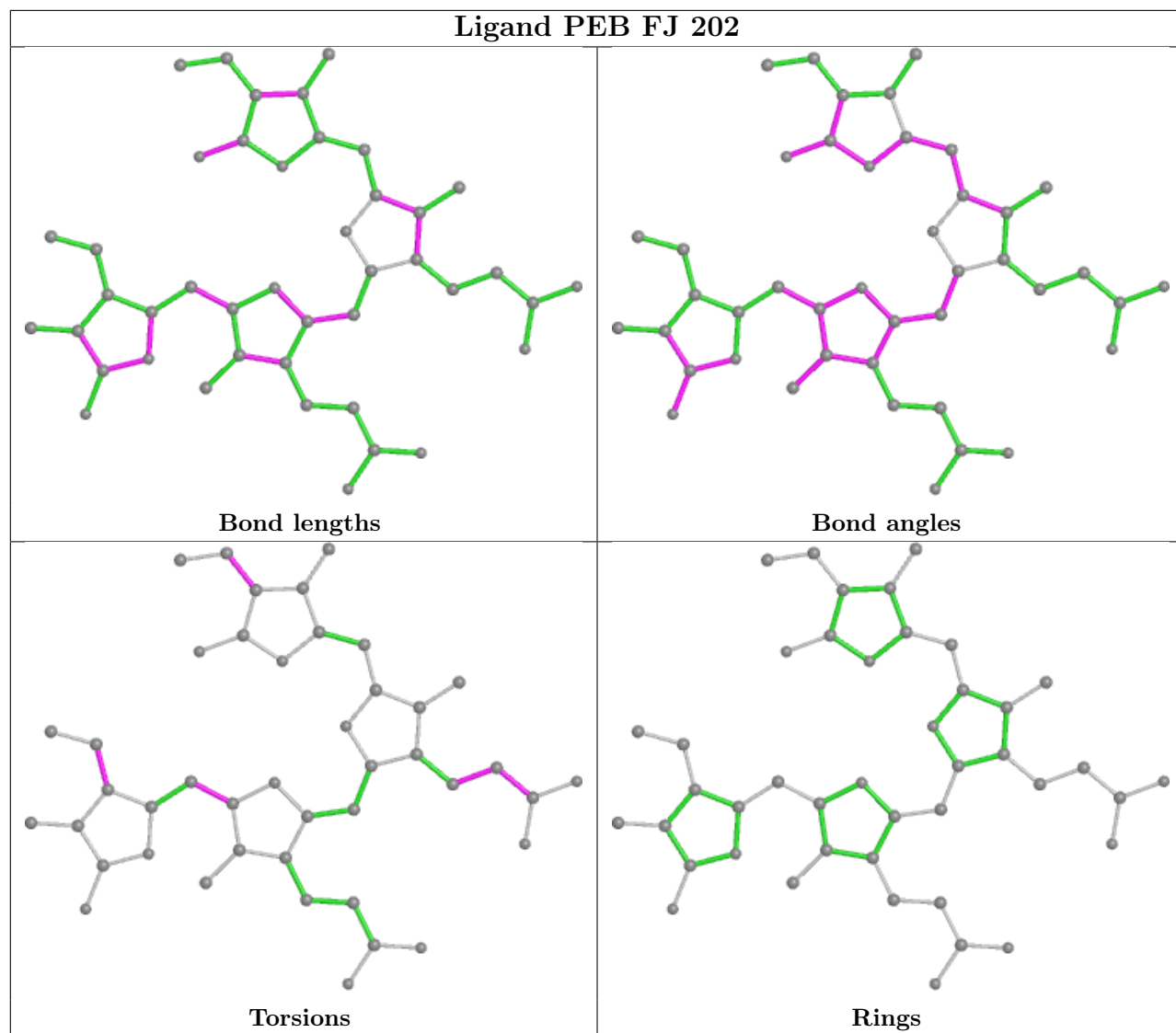


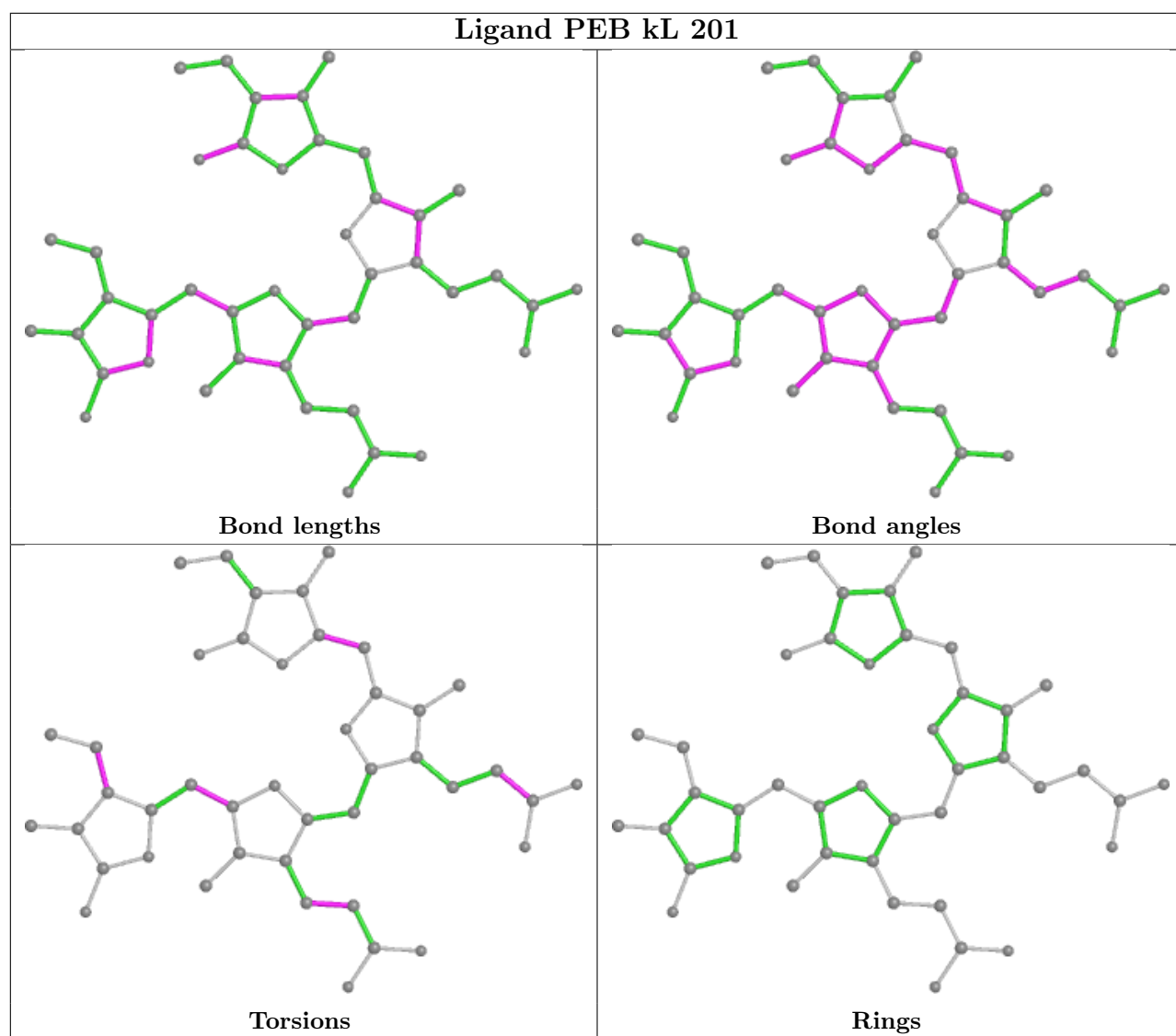
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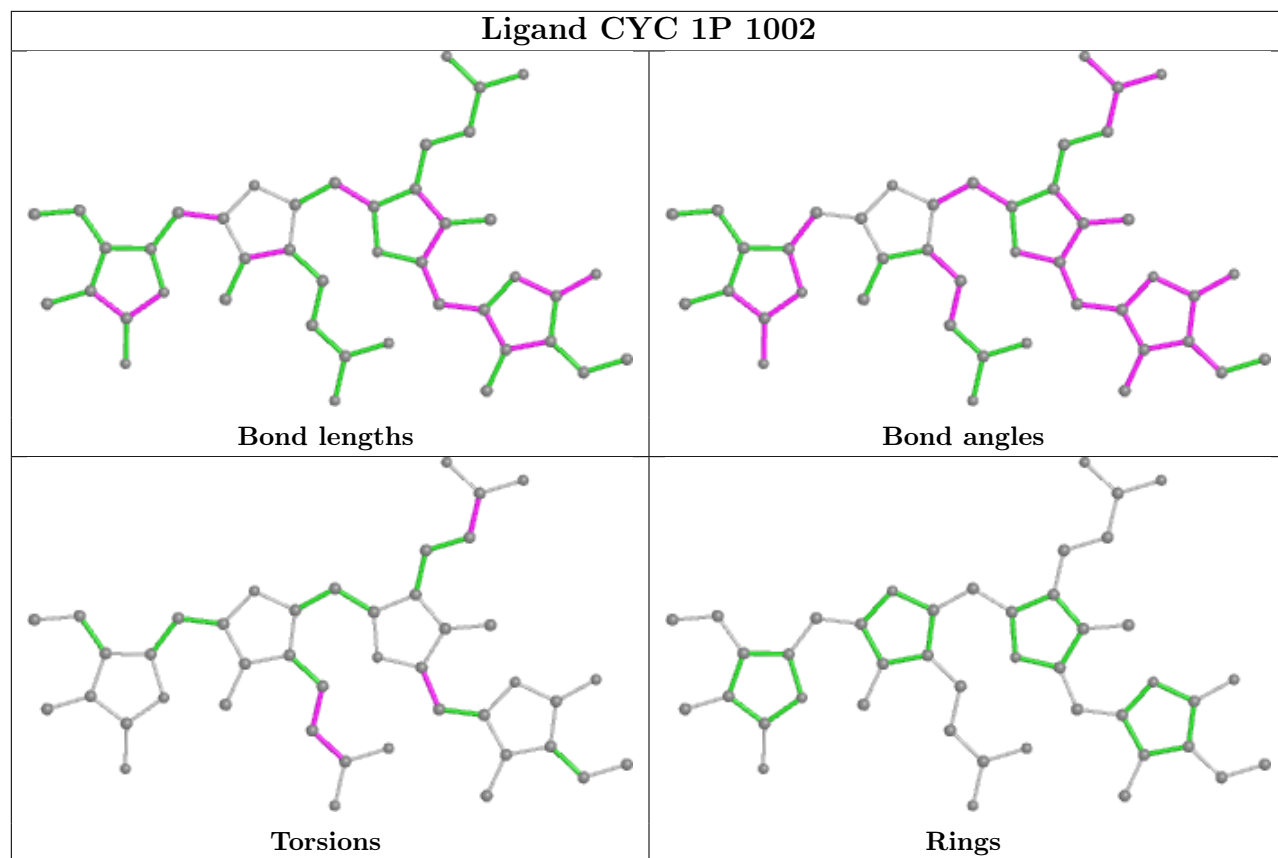


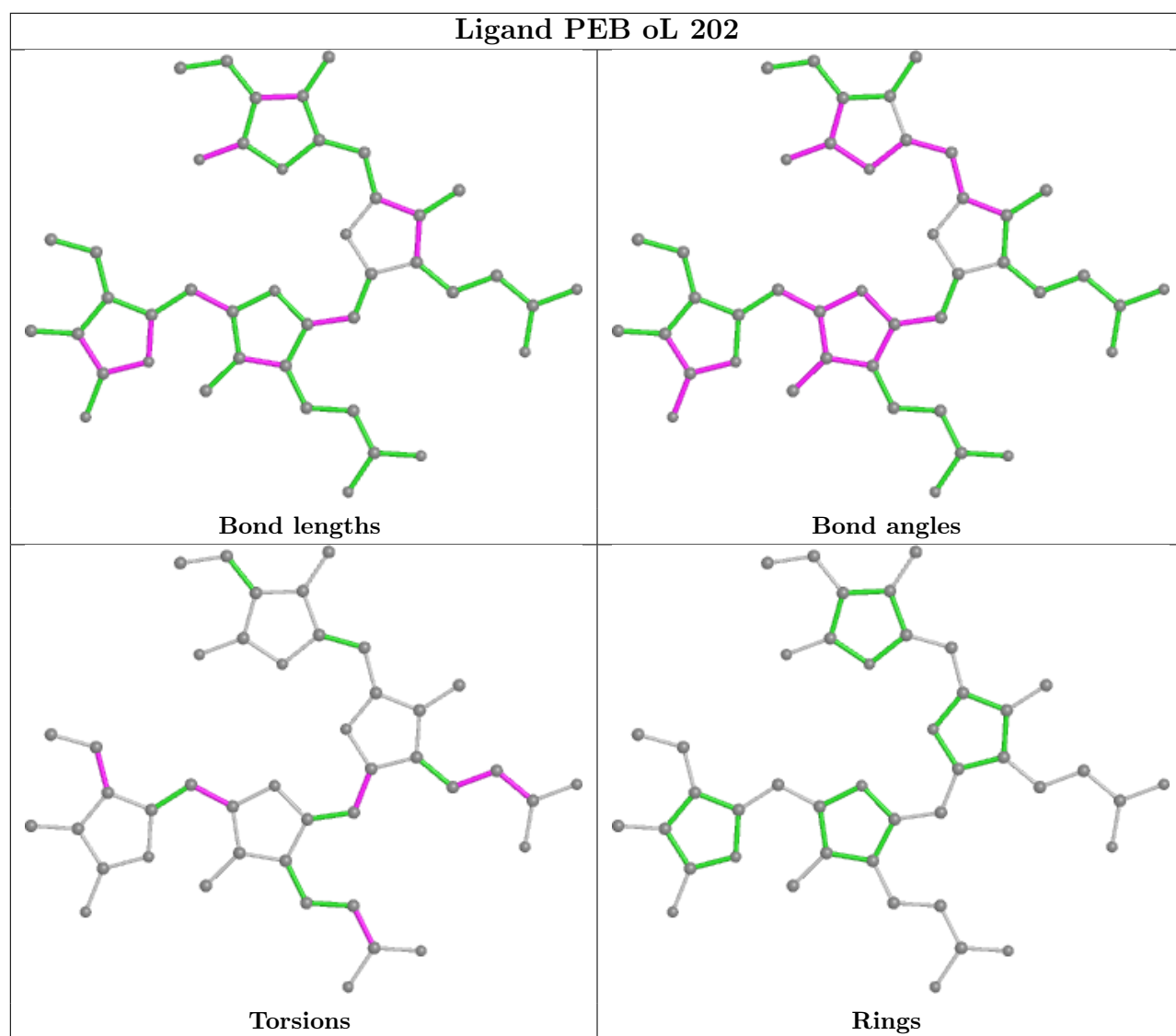
Rings

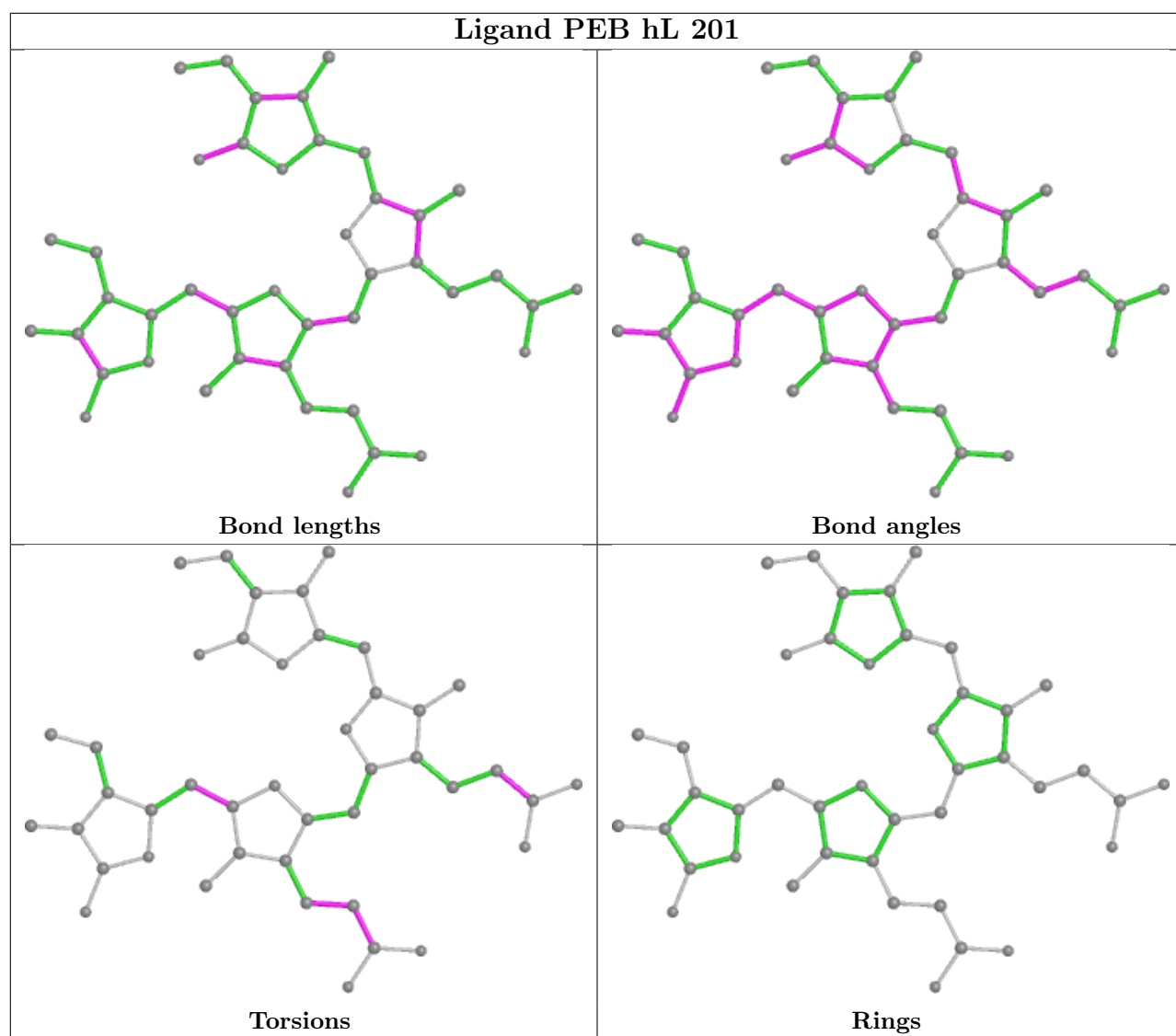




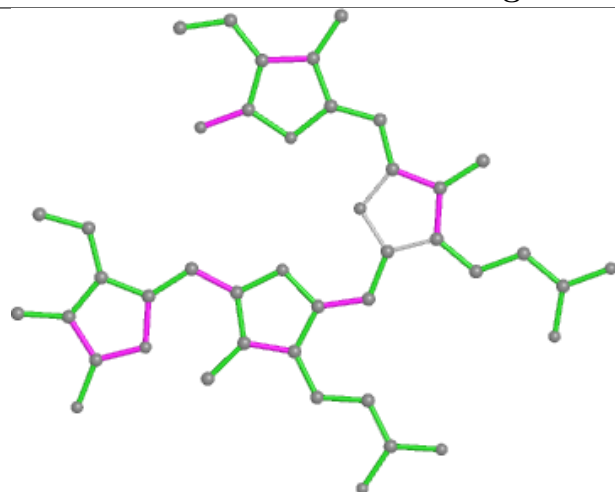




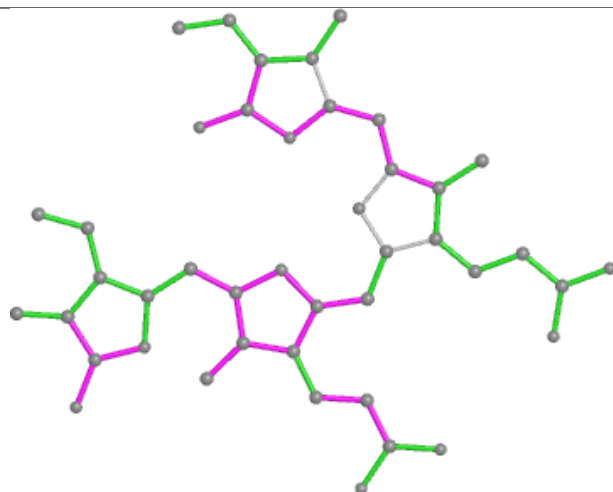




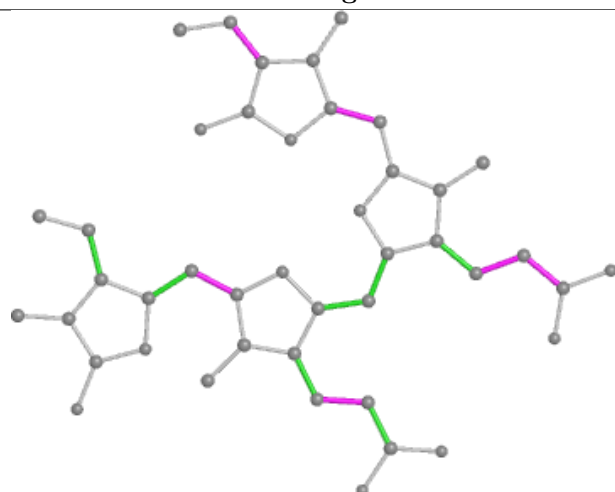
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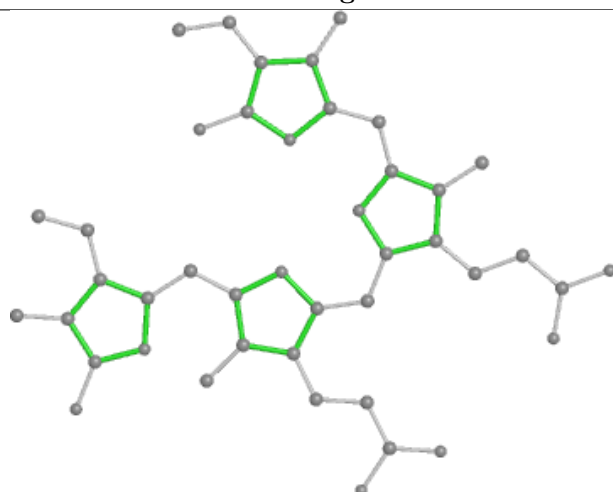
Bond lengths



Bond angles

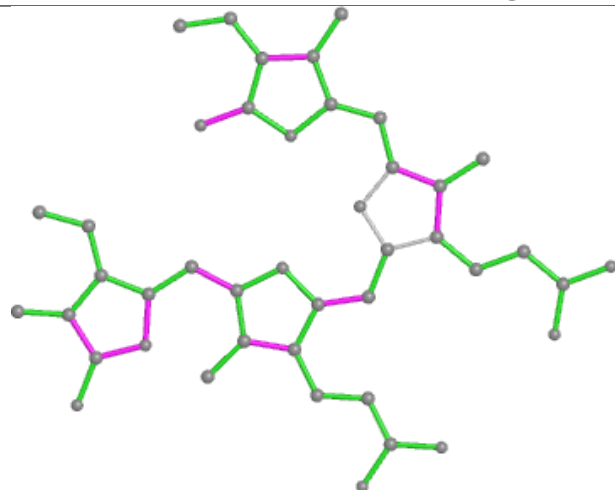


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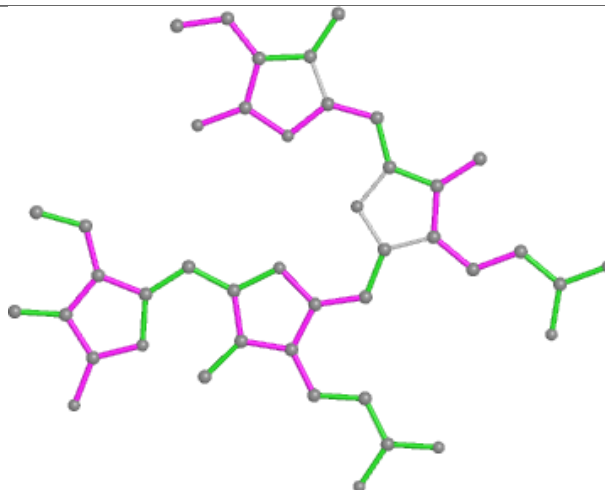


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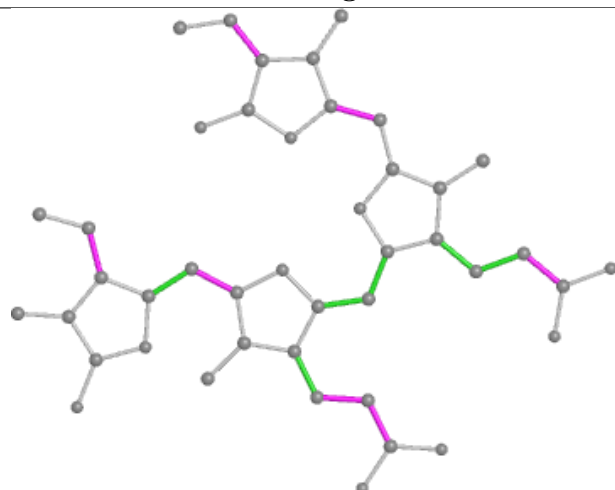
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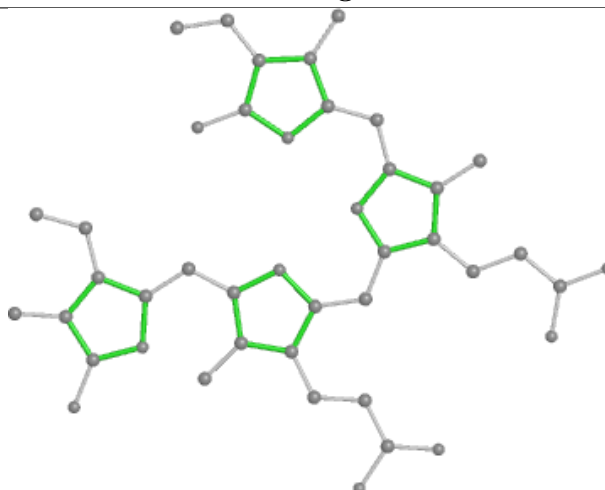
Bond lengths



Bond angles

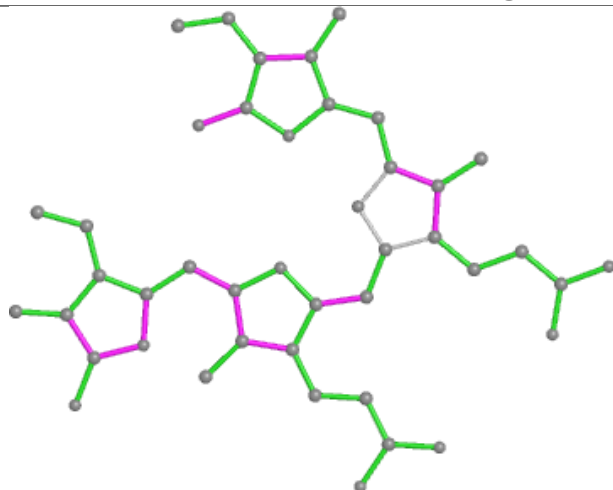


Torsions

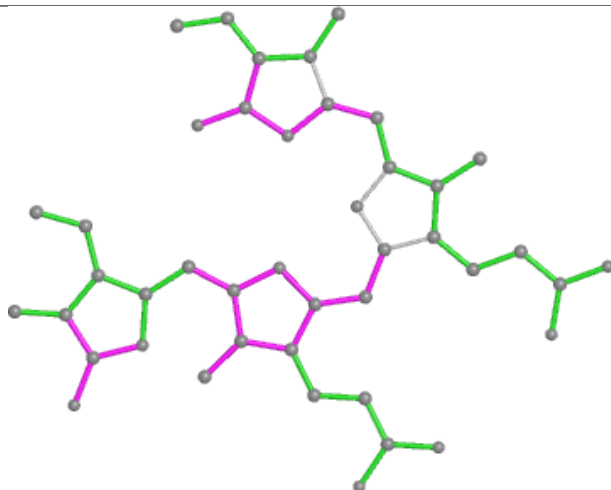


Rings

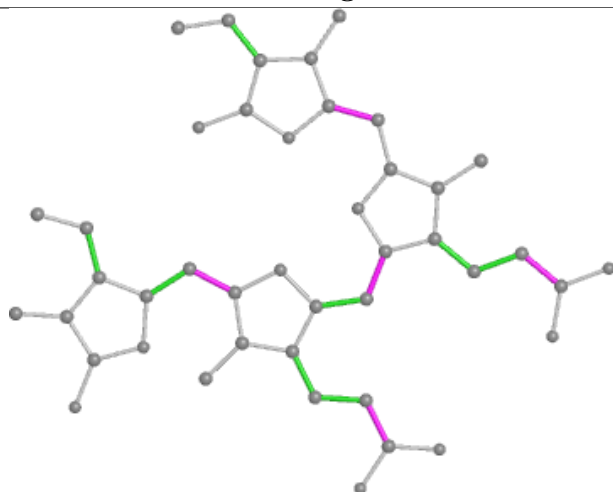
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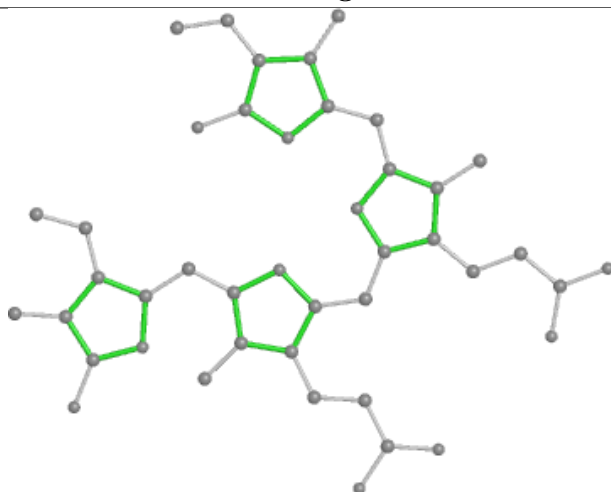
Bond lengths



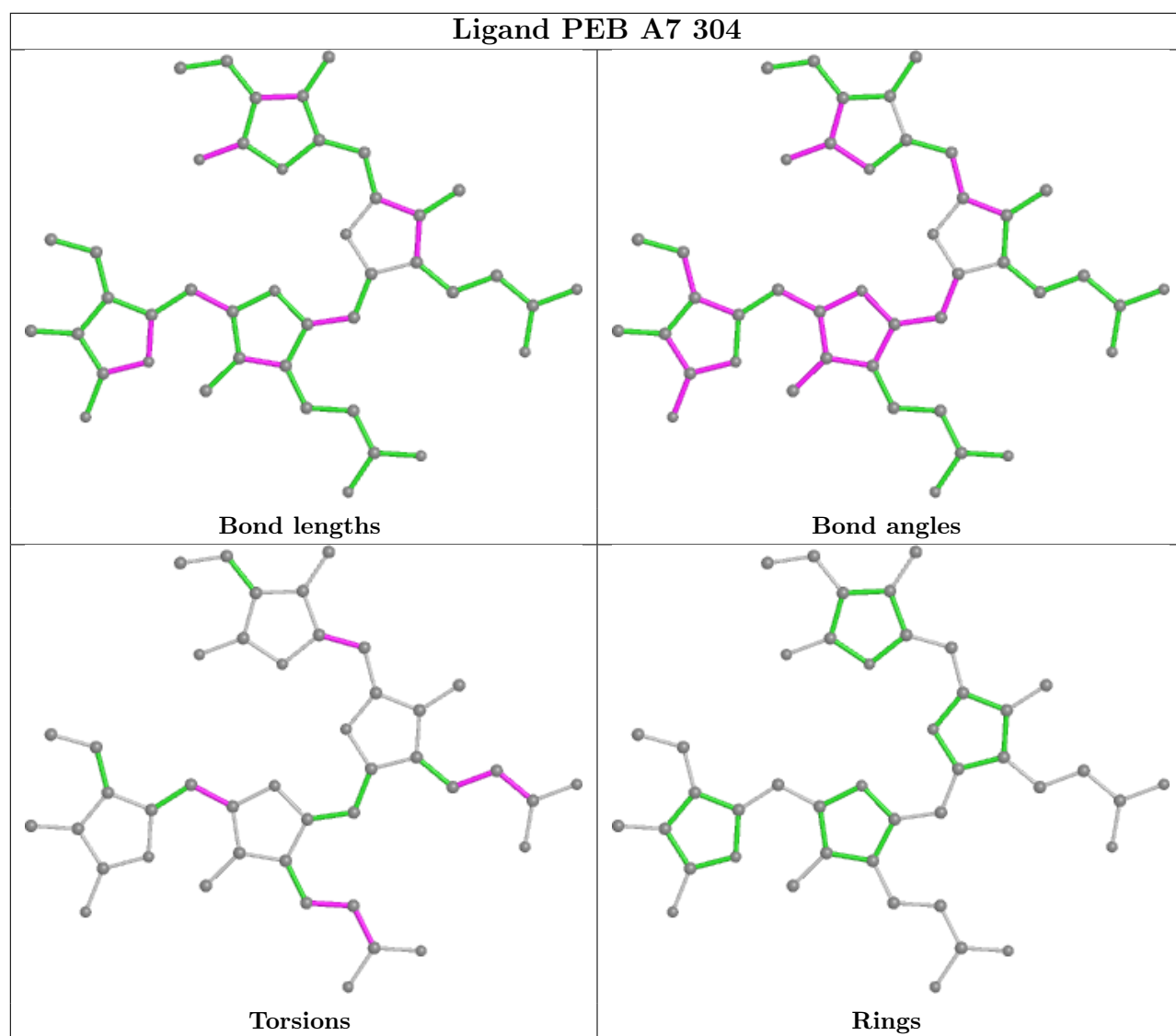
Bond angles



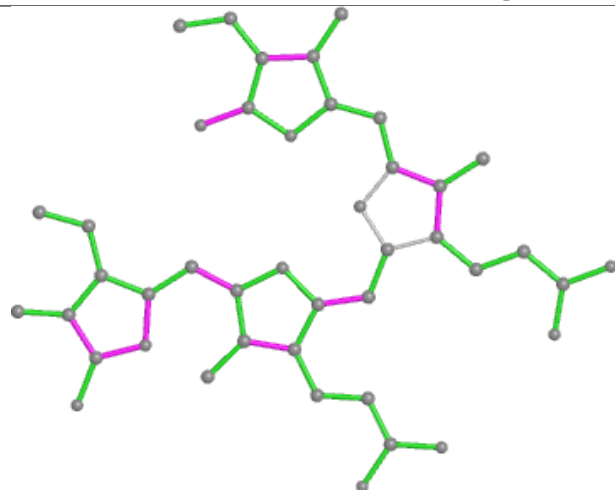
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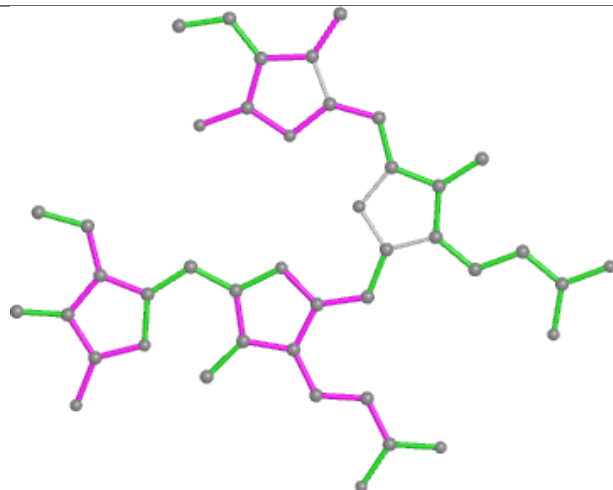
Rings



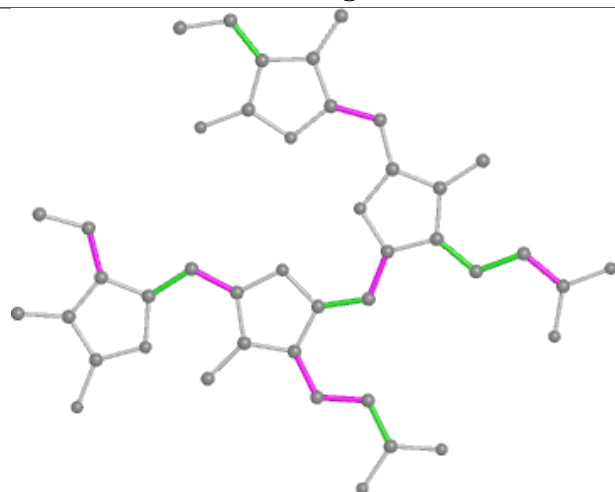
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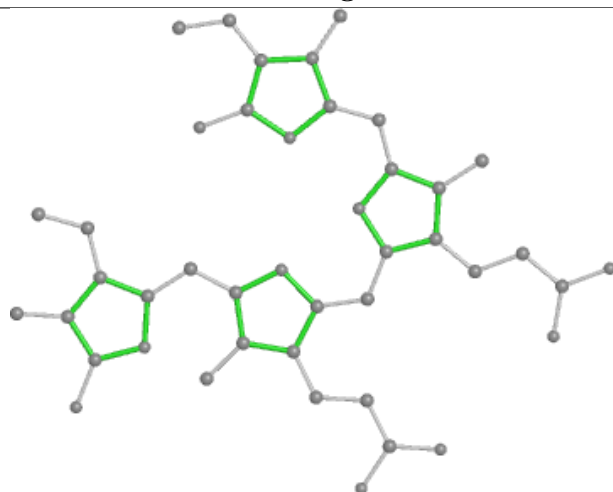
Bond lengths



Bond angles

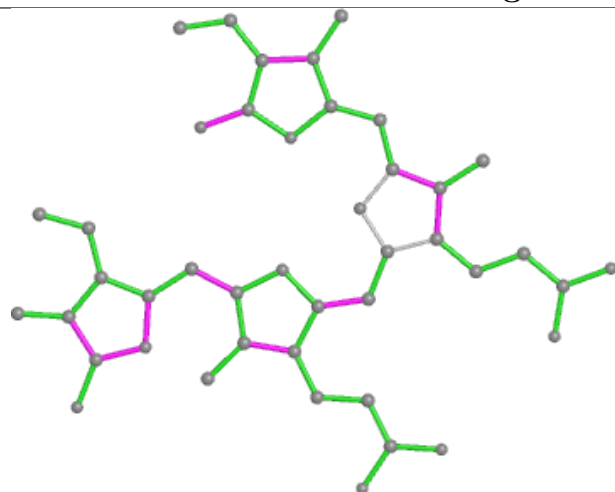


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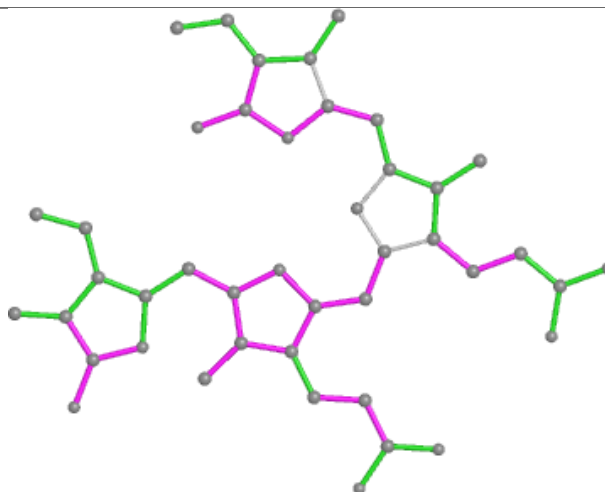


Rings

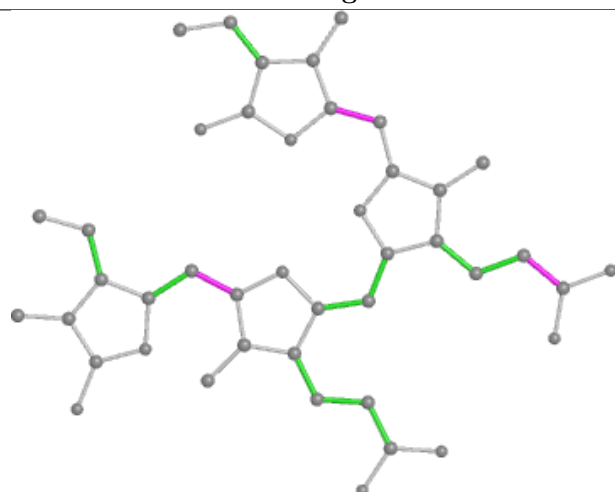
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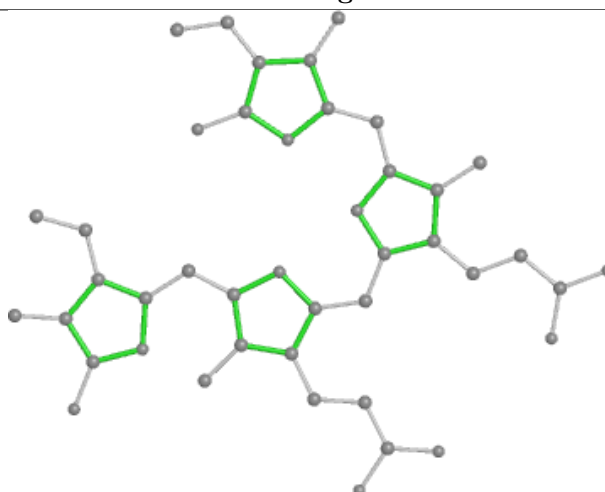
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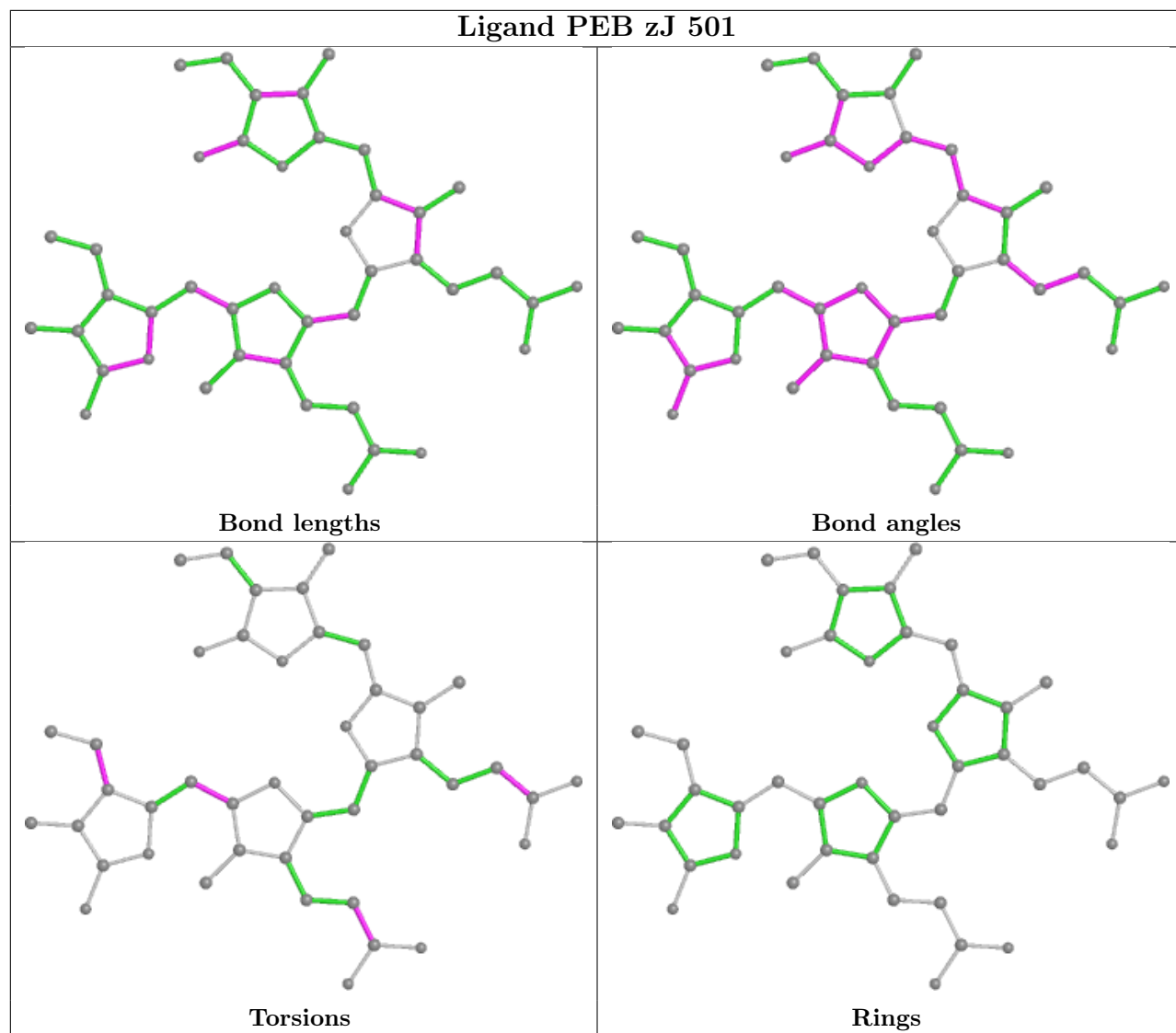
Bond angles



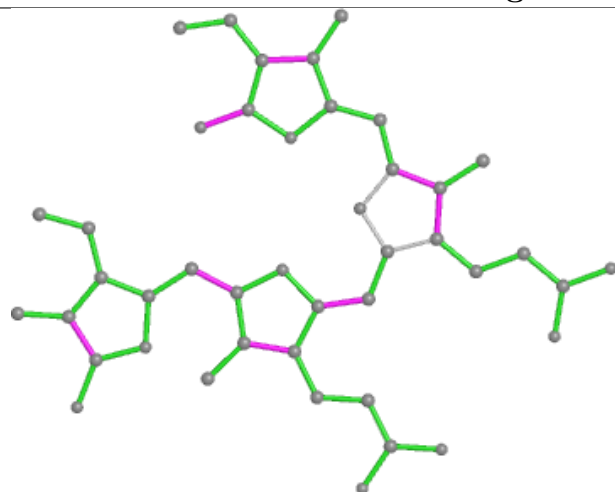
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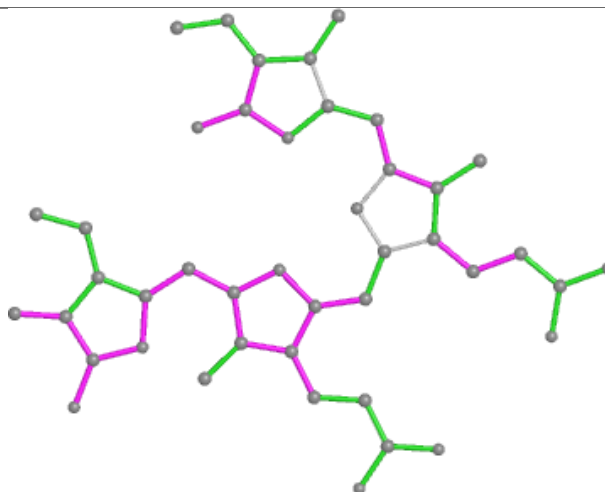
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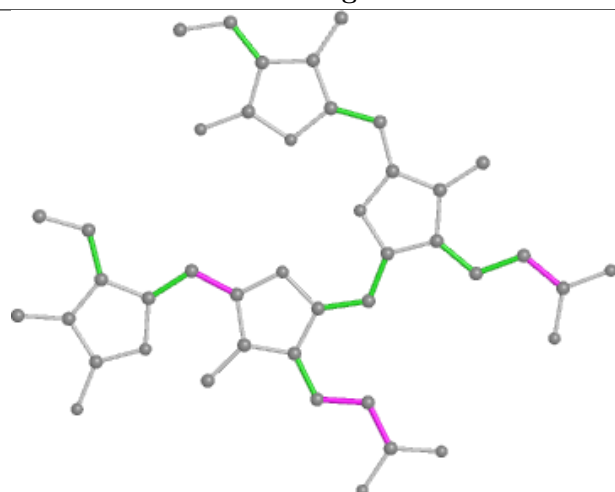
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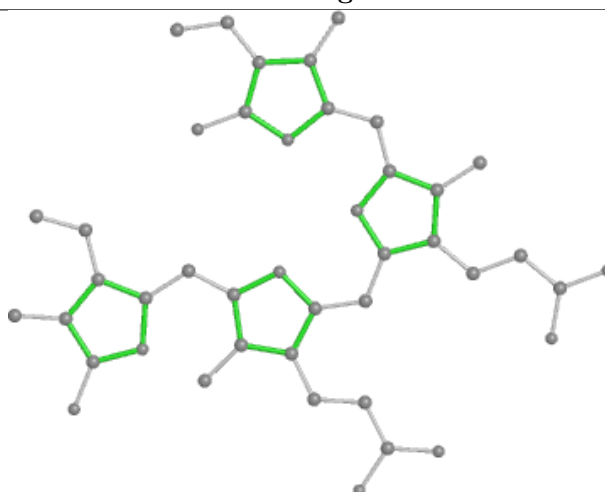
Bond lengths



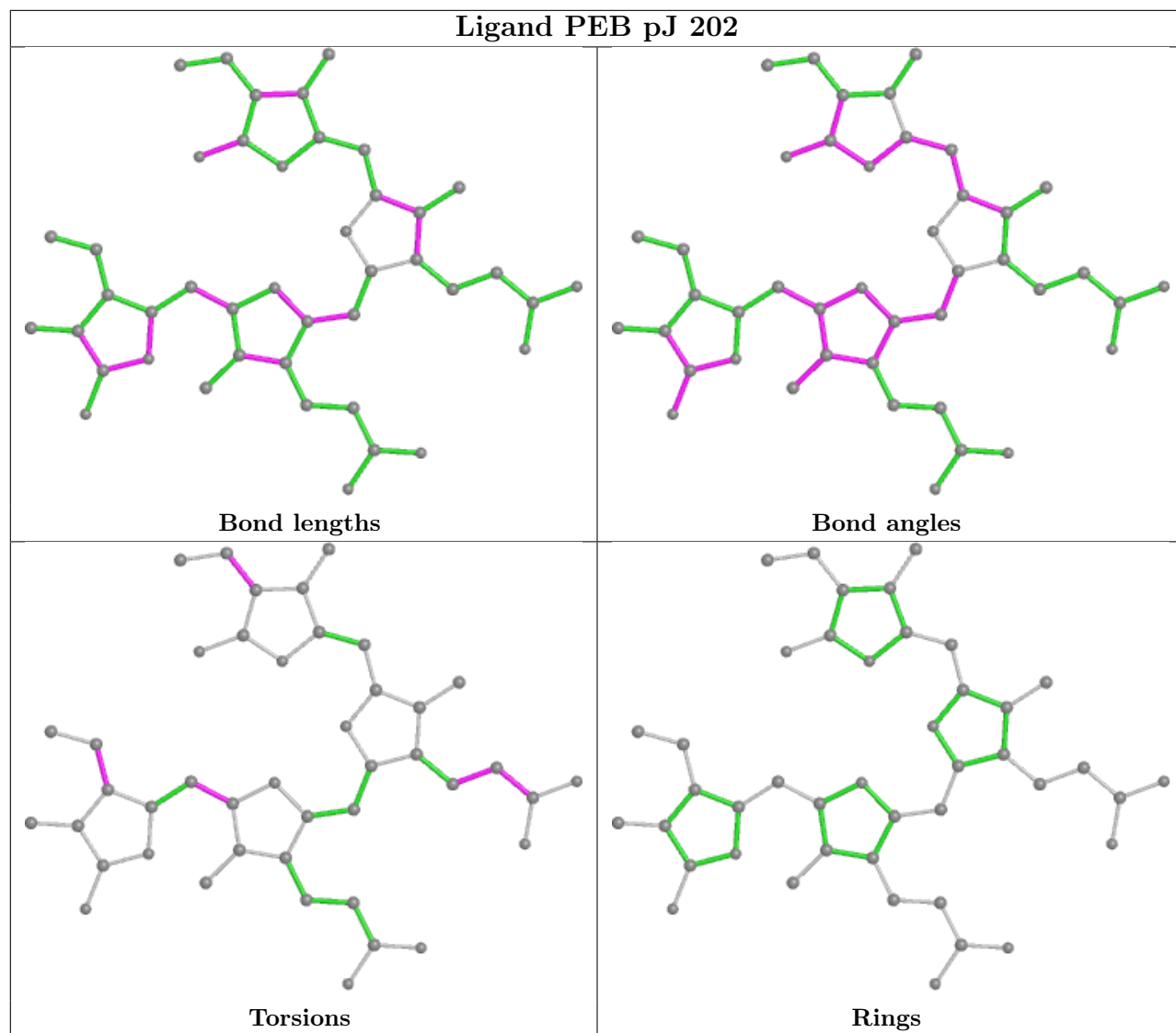
Bond angles



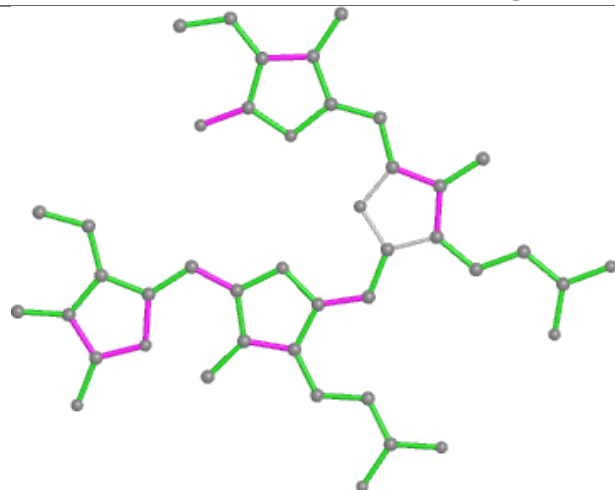
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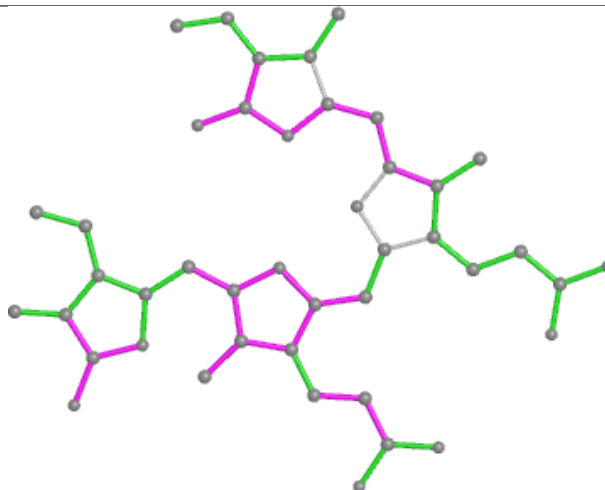
Rings



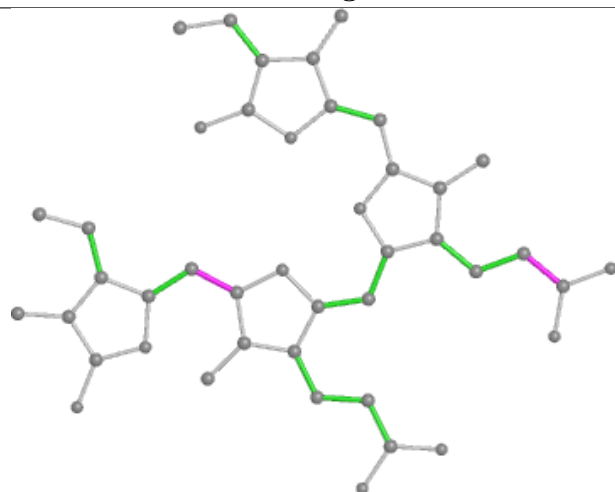
Ligand PEB Y9 201



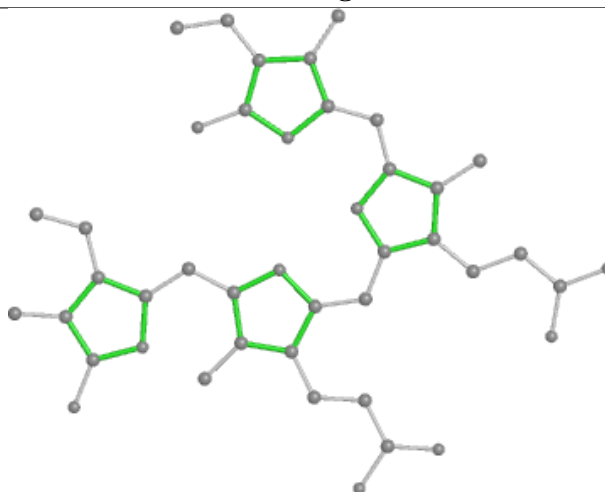
Bond lengths



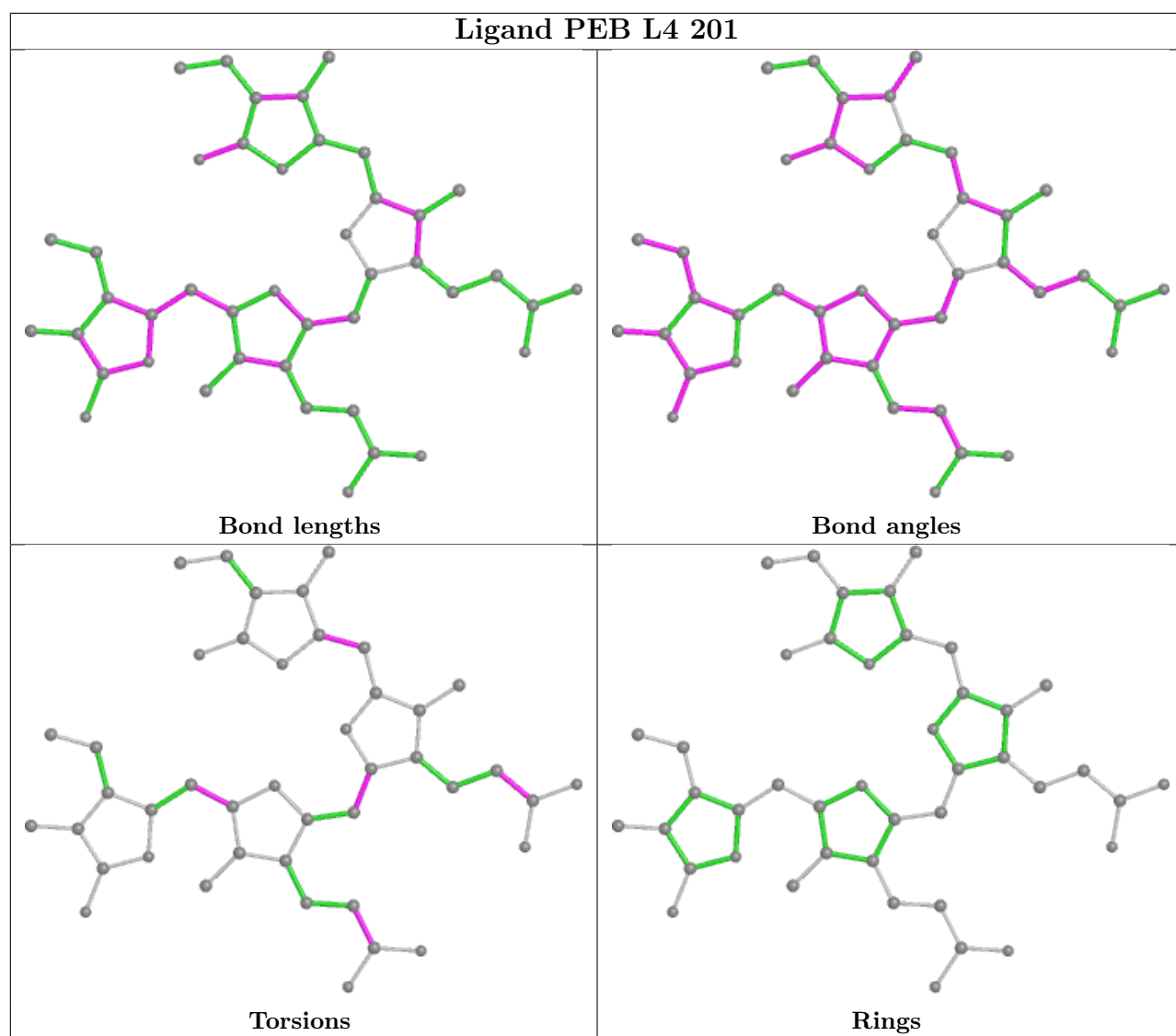
Bond angles



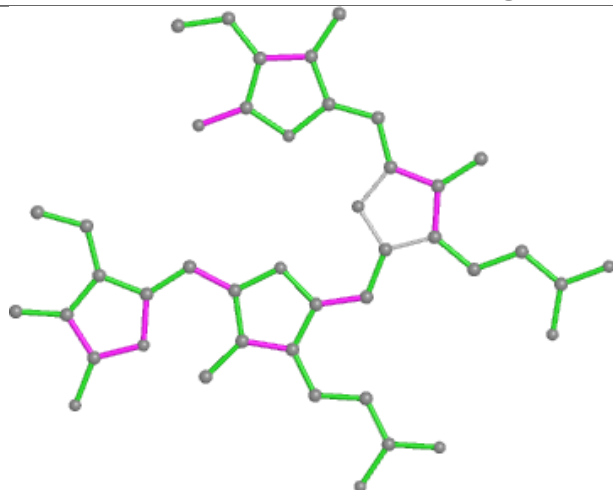
Torsions



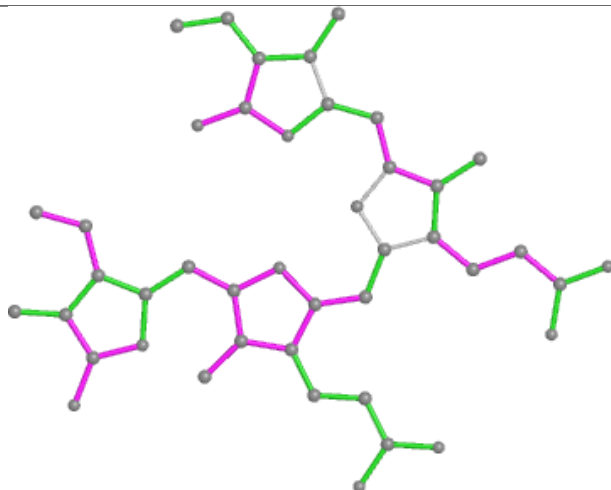
Rings



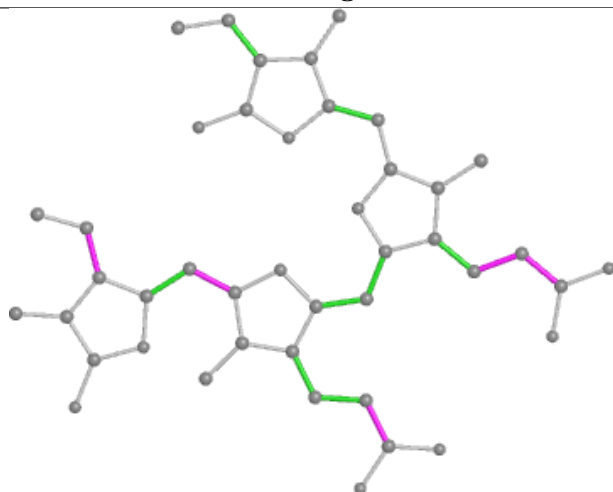
Ligand PEB AK 303



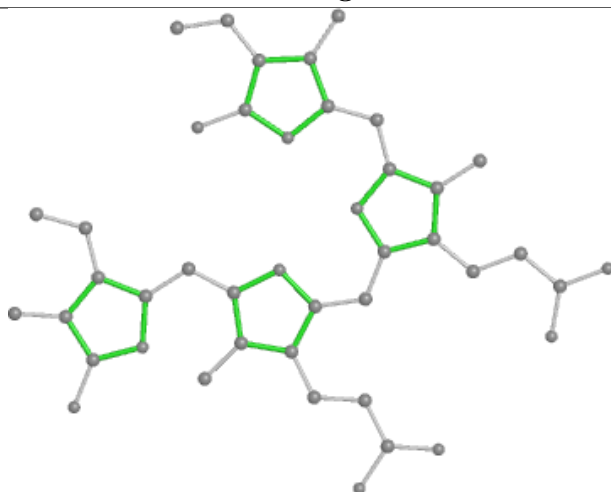
Bond lengths



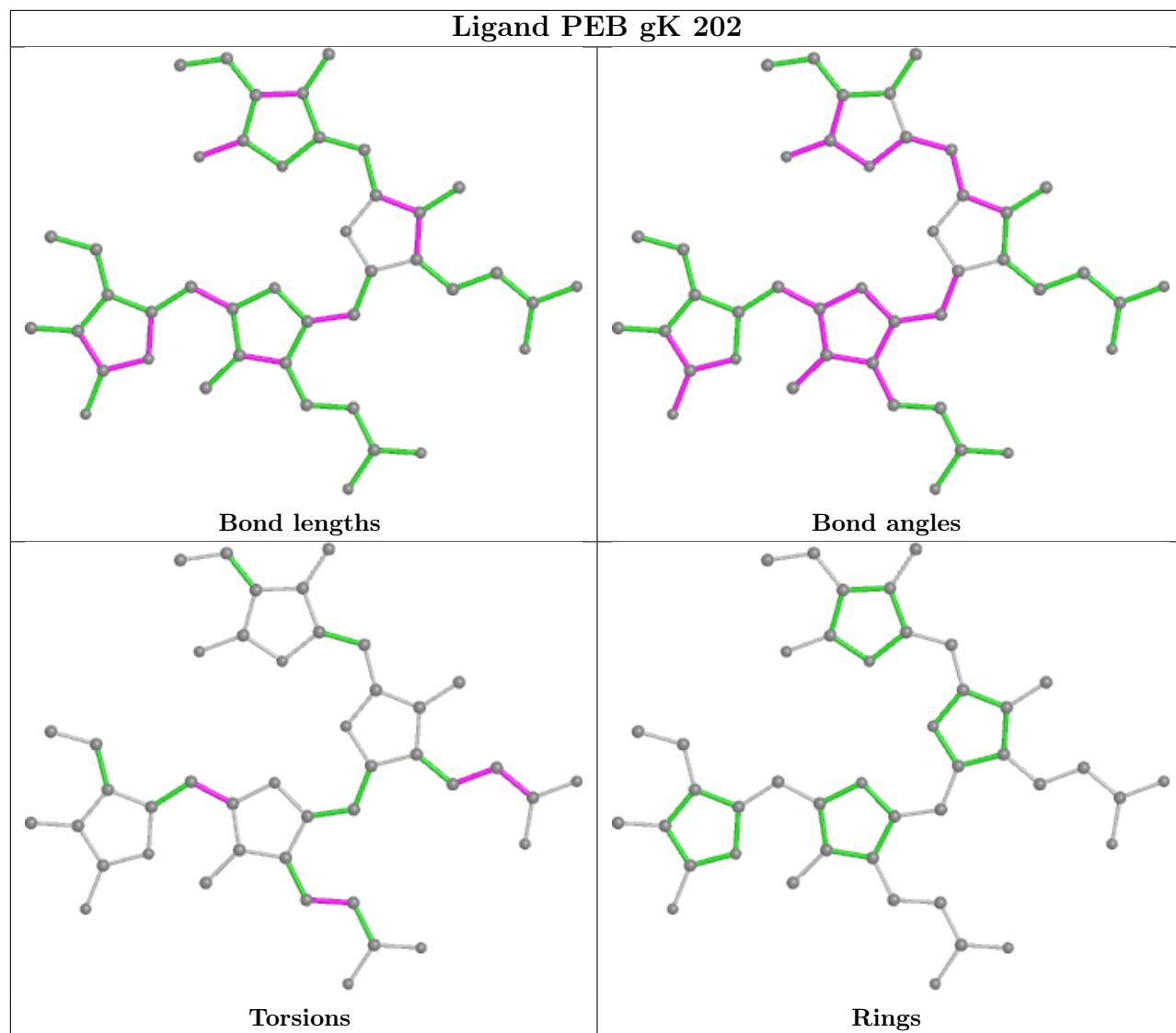
Bond angles



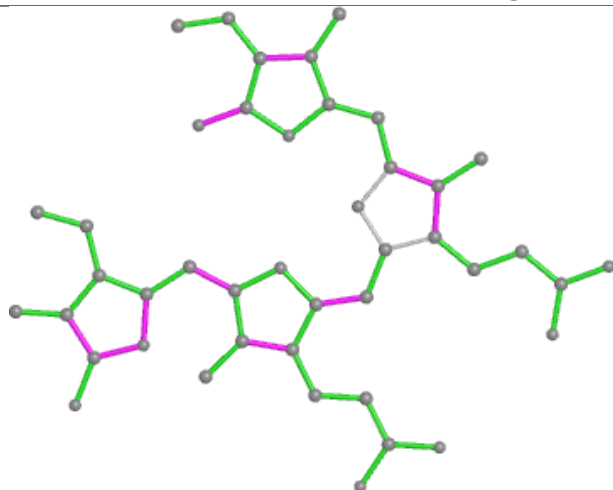
Torsions



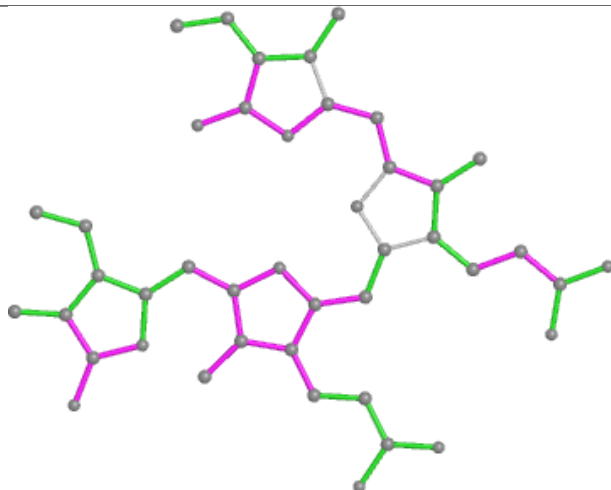
Rings



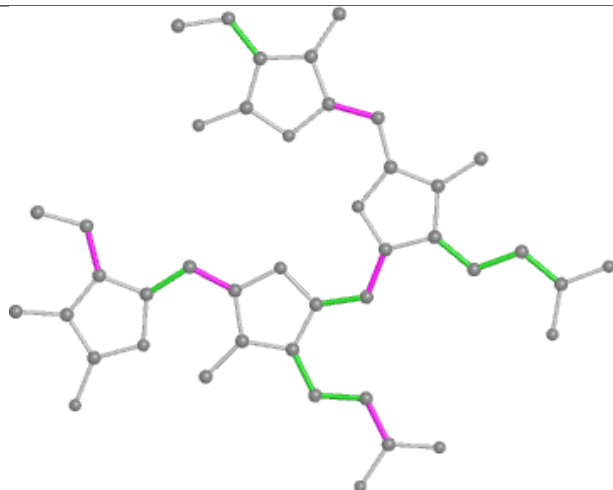
Ligand PEB JO 203



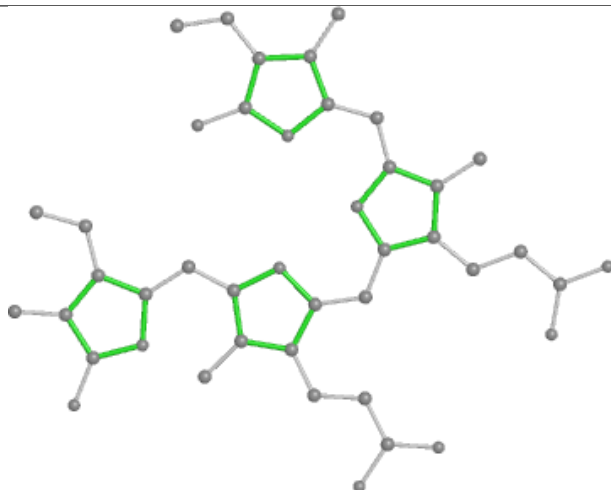
Bond lengths



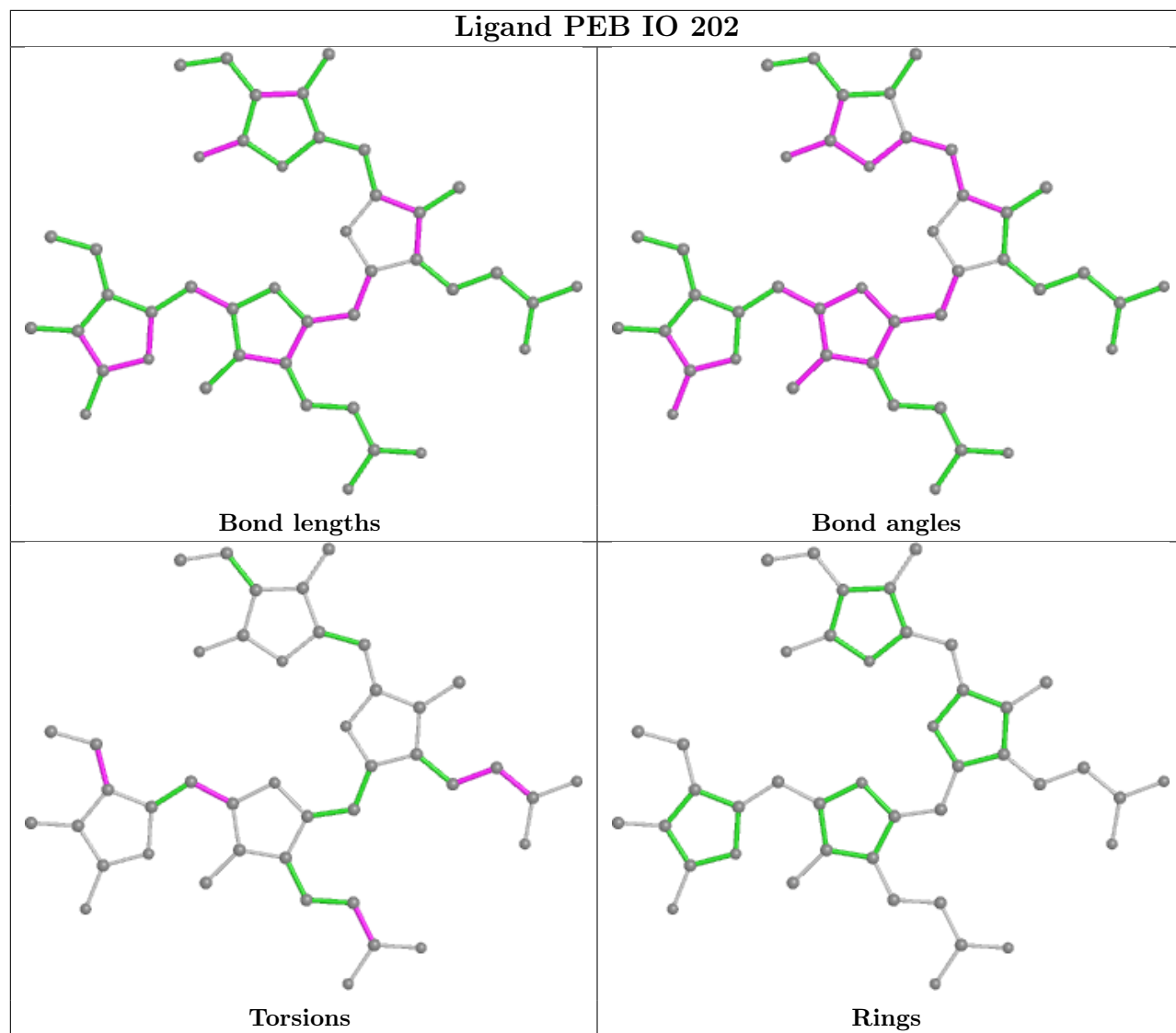
Bond angles



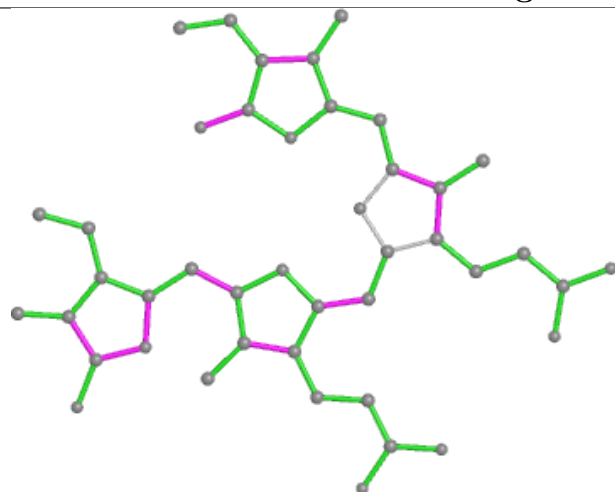
Torsions



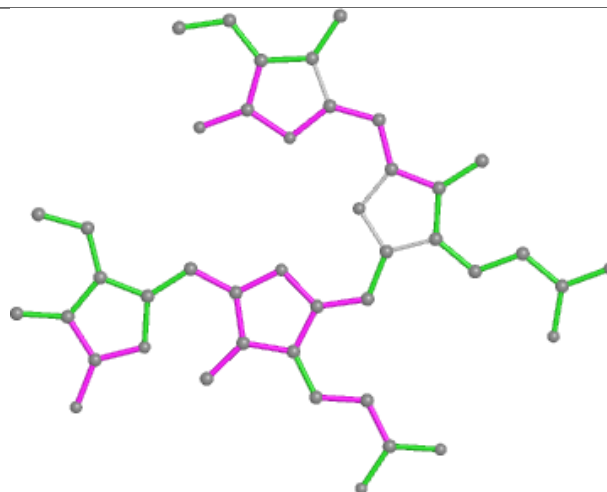
Rings



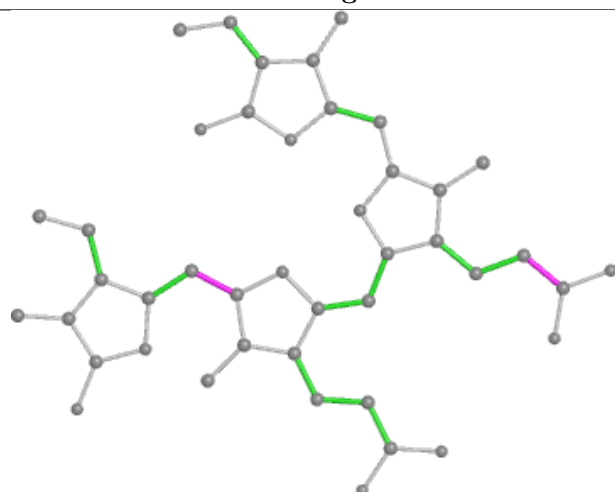
Ligand PEB i7 201



Bond lengths



Bond angles

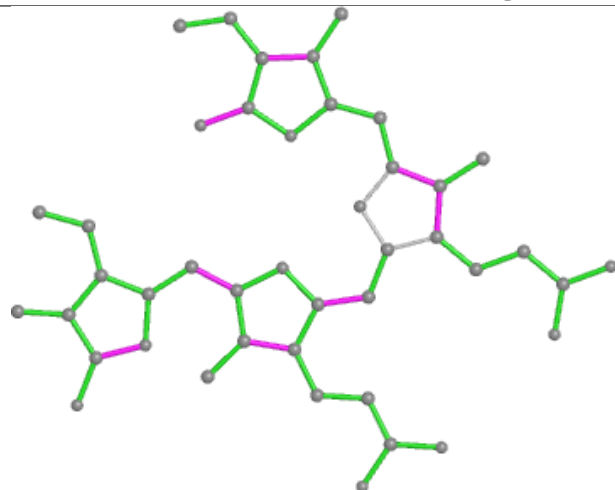


Torsions

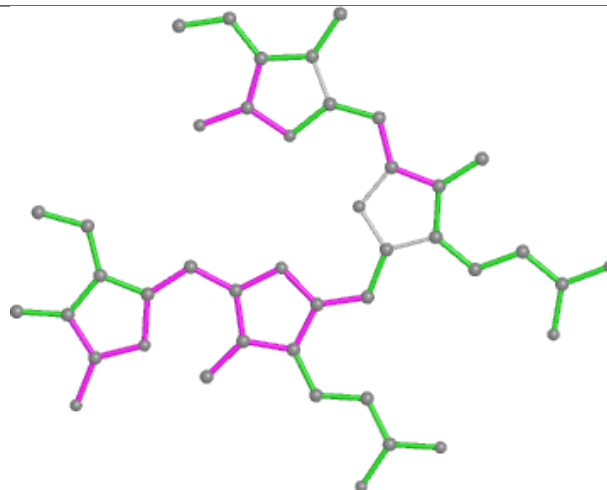


Rings

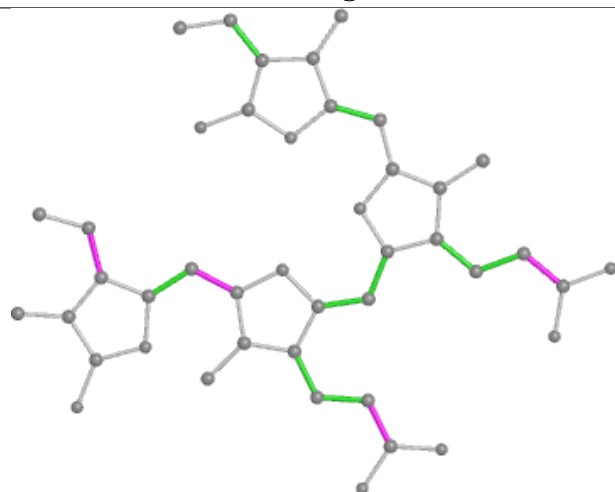
Ligand PEB AM 302



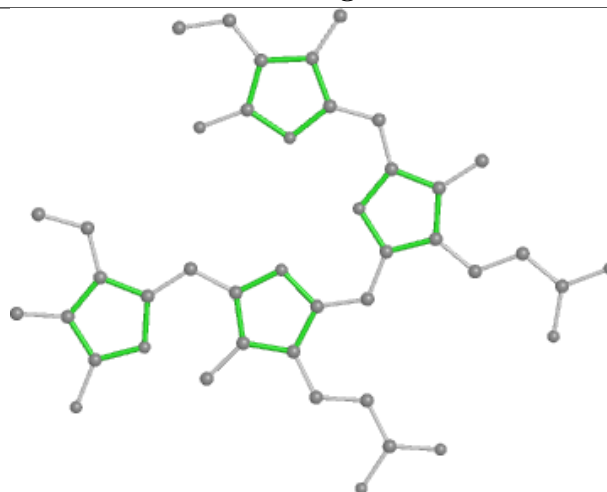
Bond lengths



Bond angles

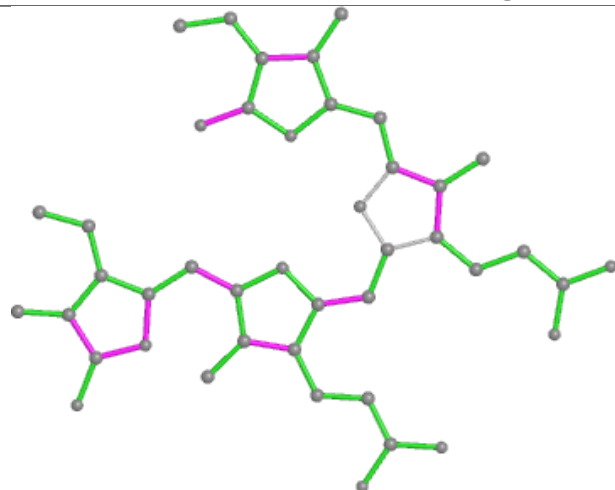


Torsions

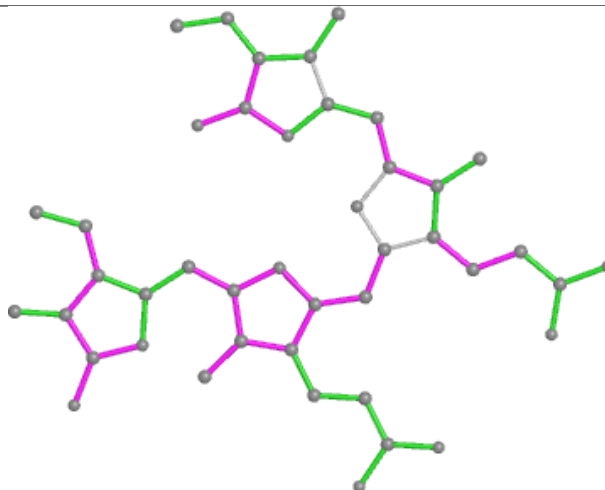


Rings

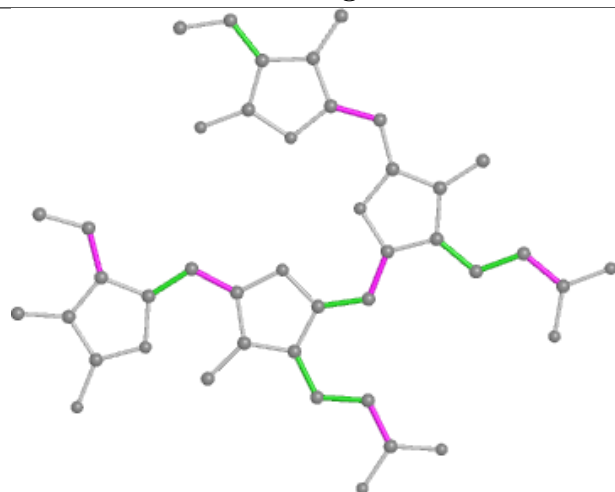
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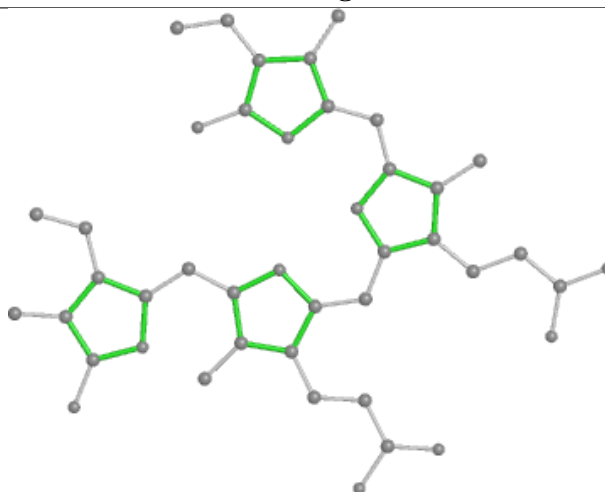
Bond lengths



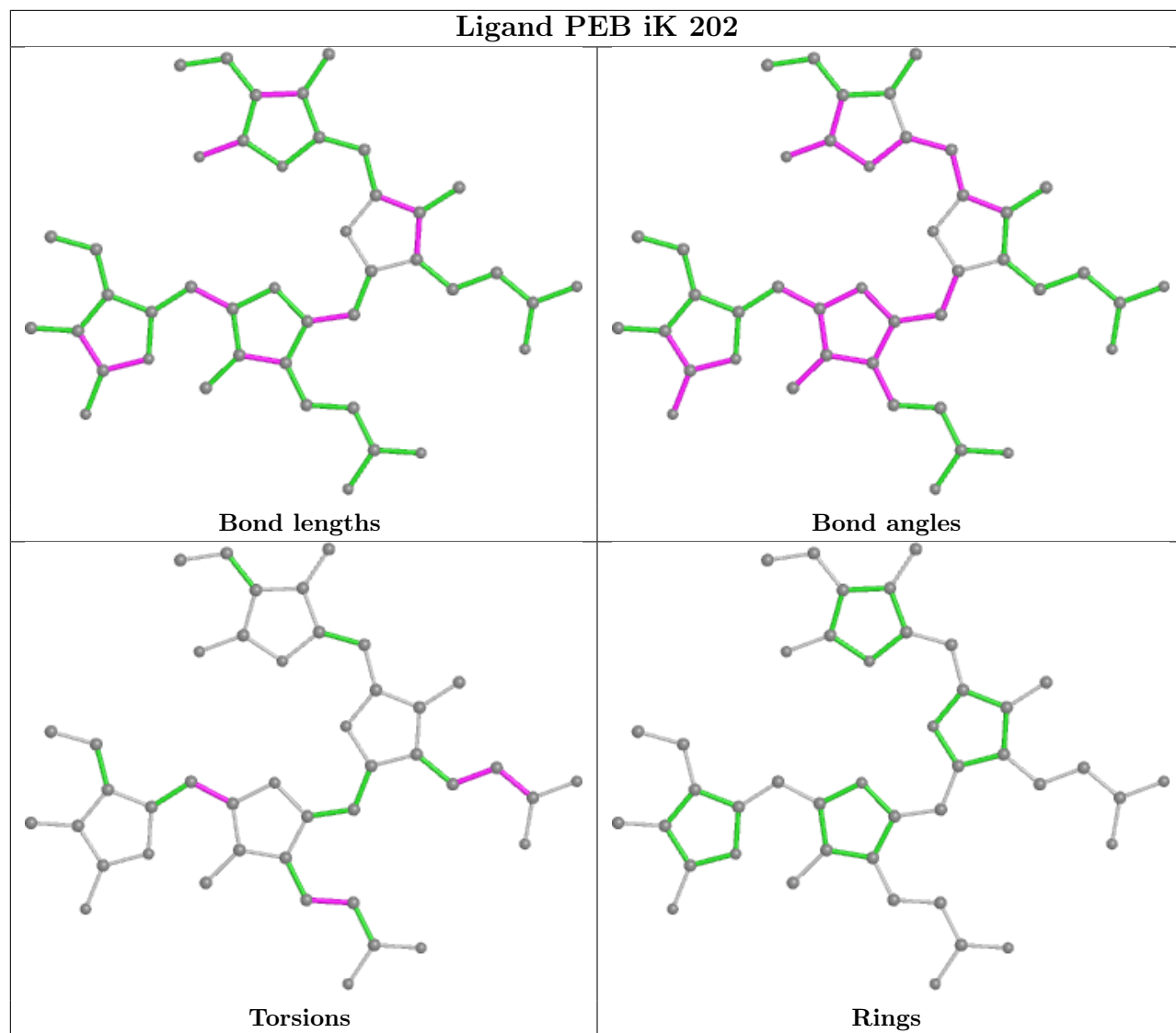
Bond angles



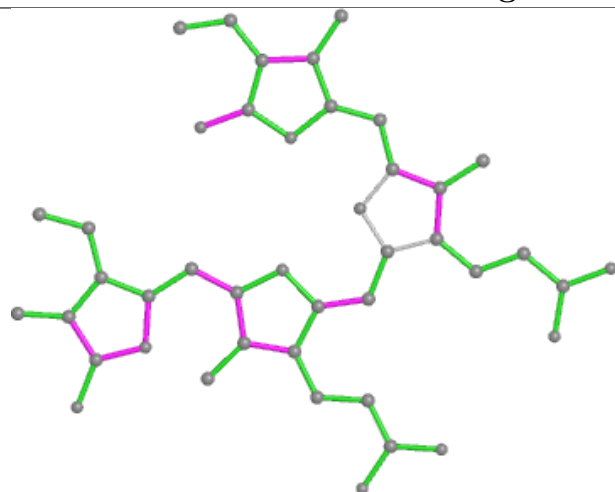
Torsions



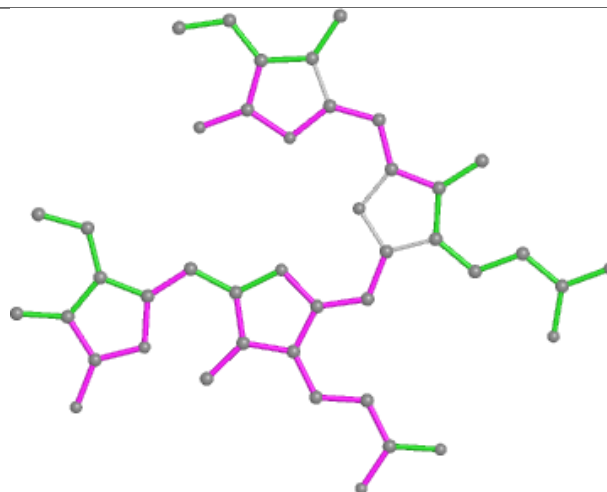
Rings



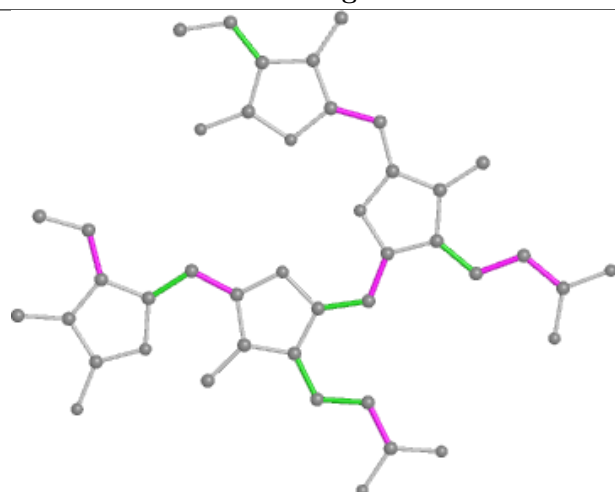
Ligand PEB HM 203



Bond lengths



Bond angles

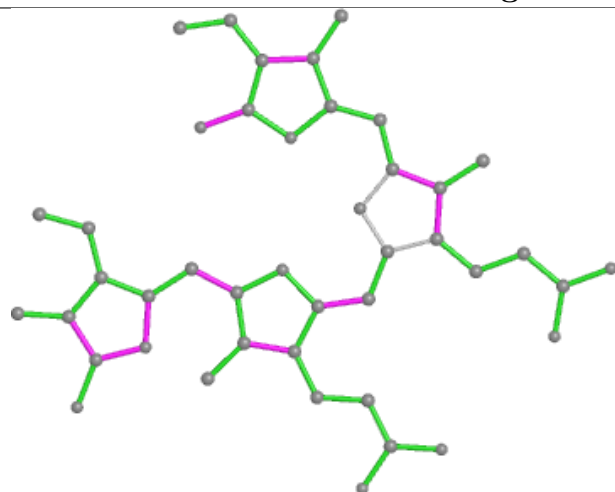


Torsions

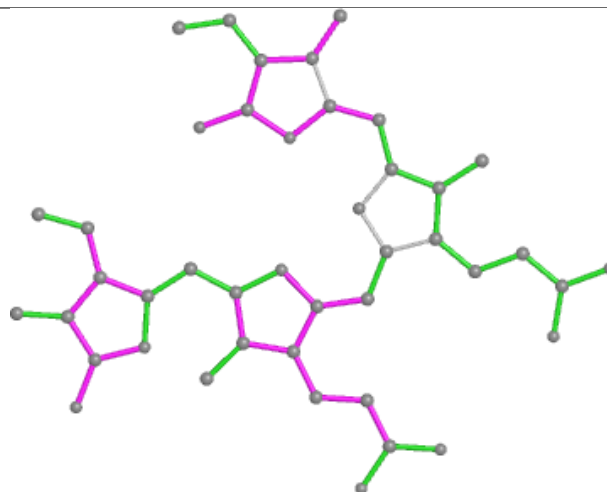


Rings

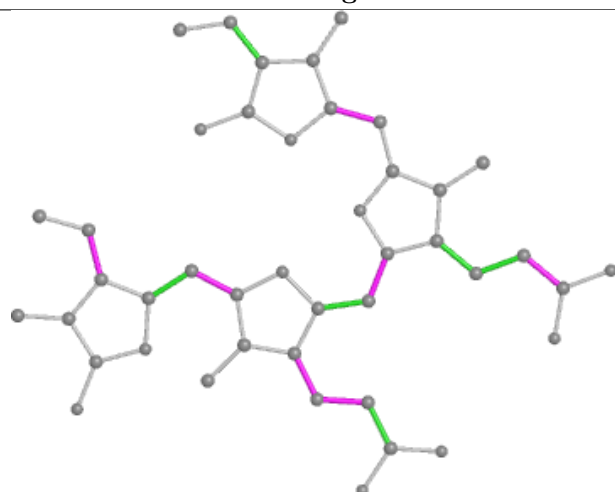
Ligand PEB L9 1002



Bond lengths



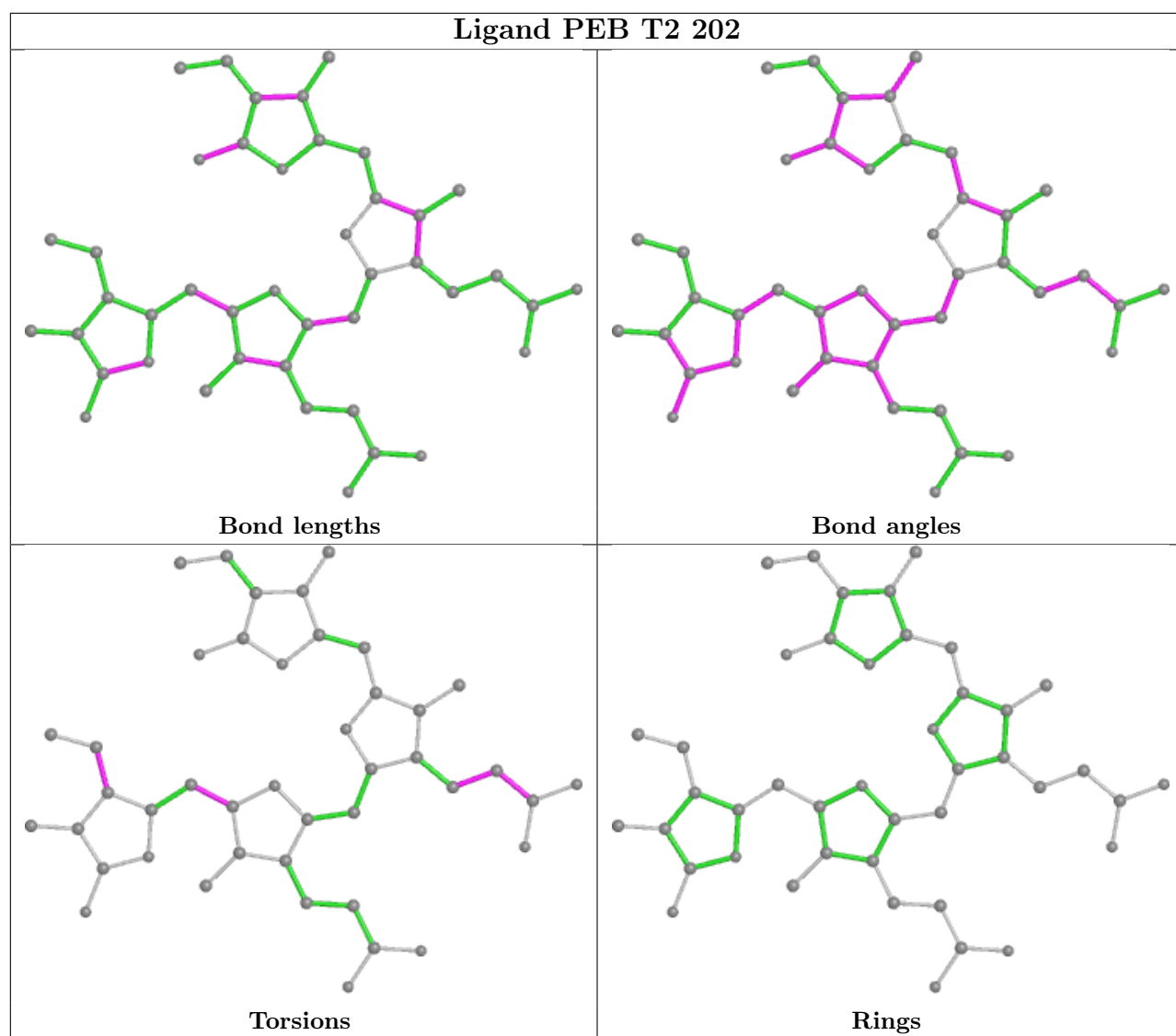
Bond angles

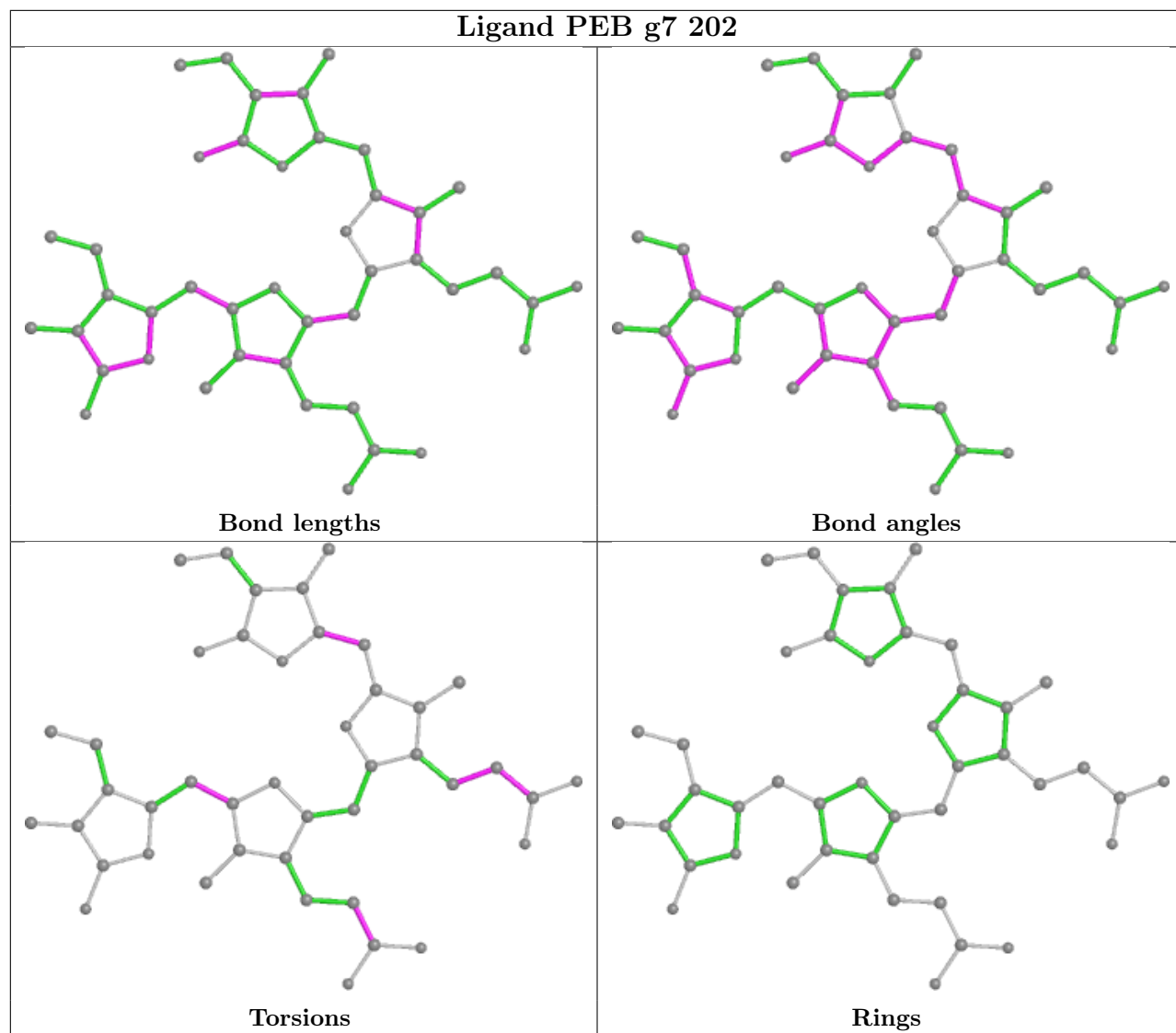


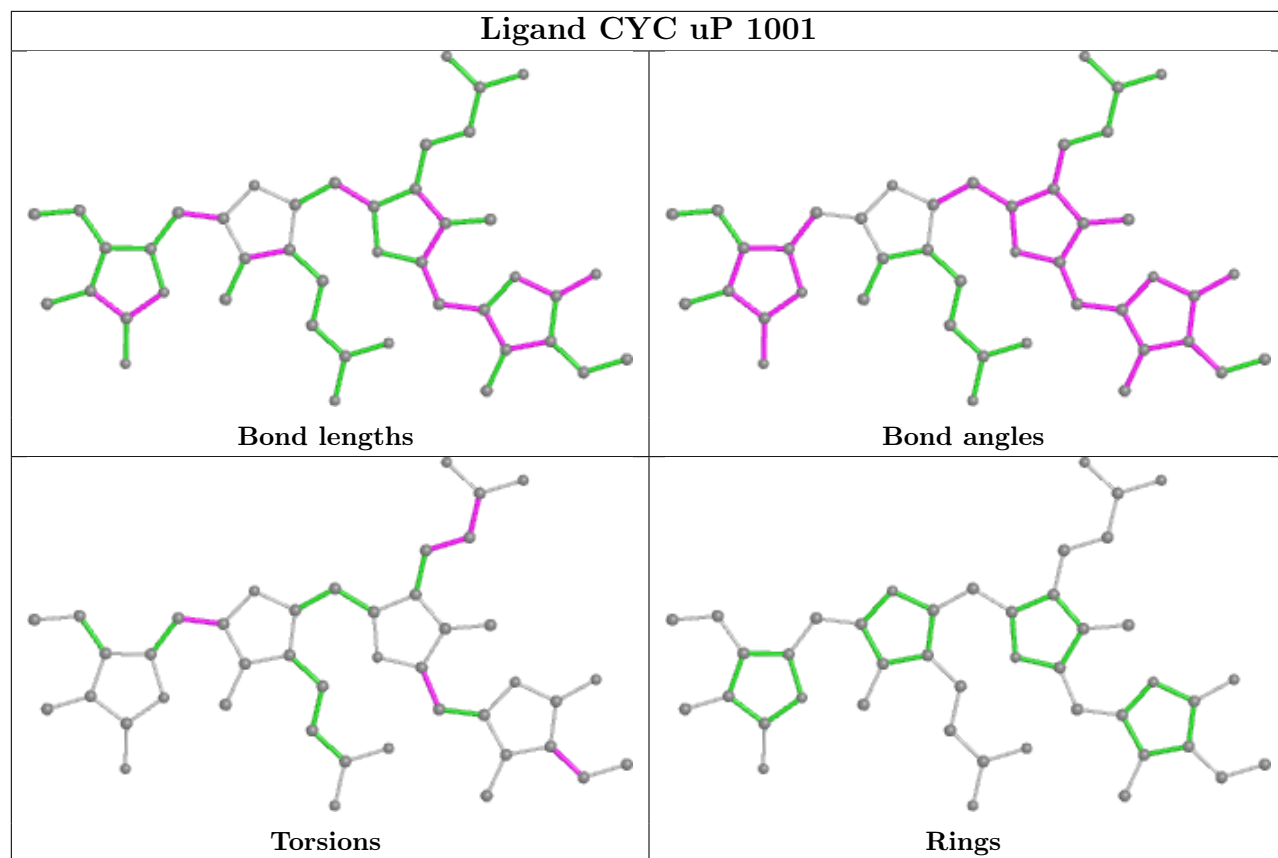
Torsions



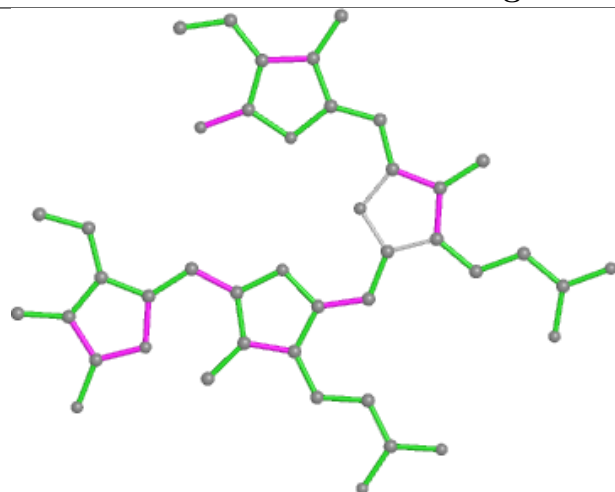
Rings



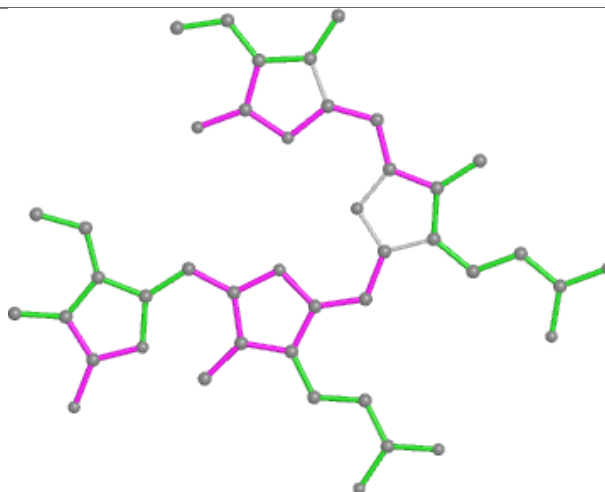




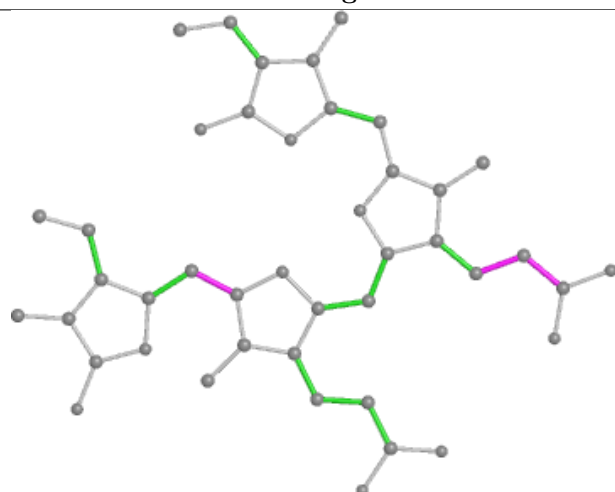
Ligand PEB OB 201



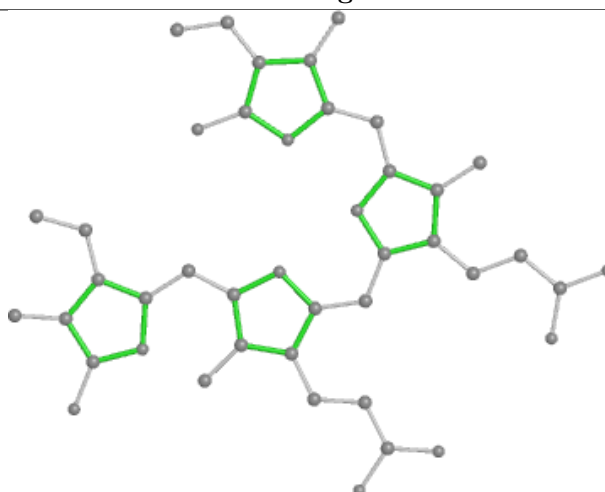
Bond lengths



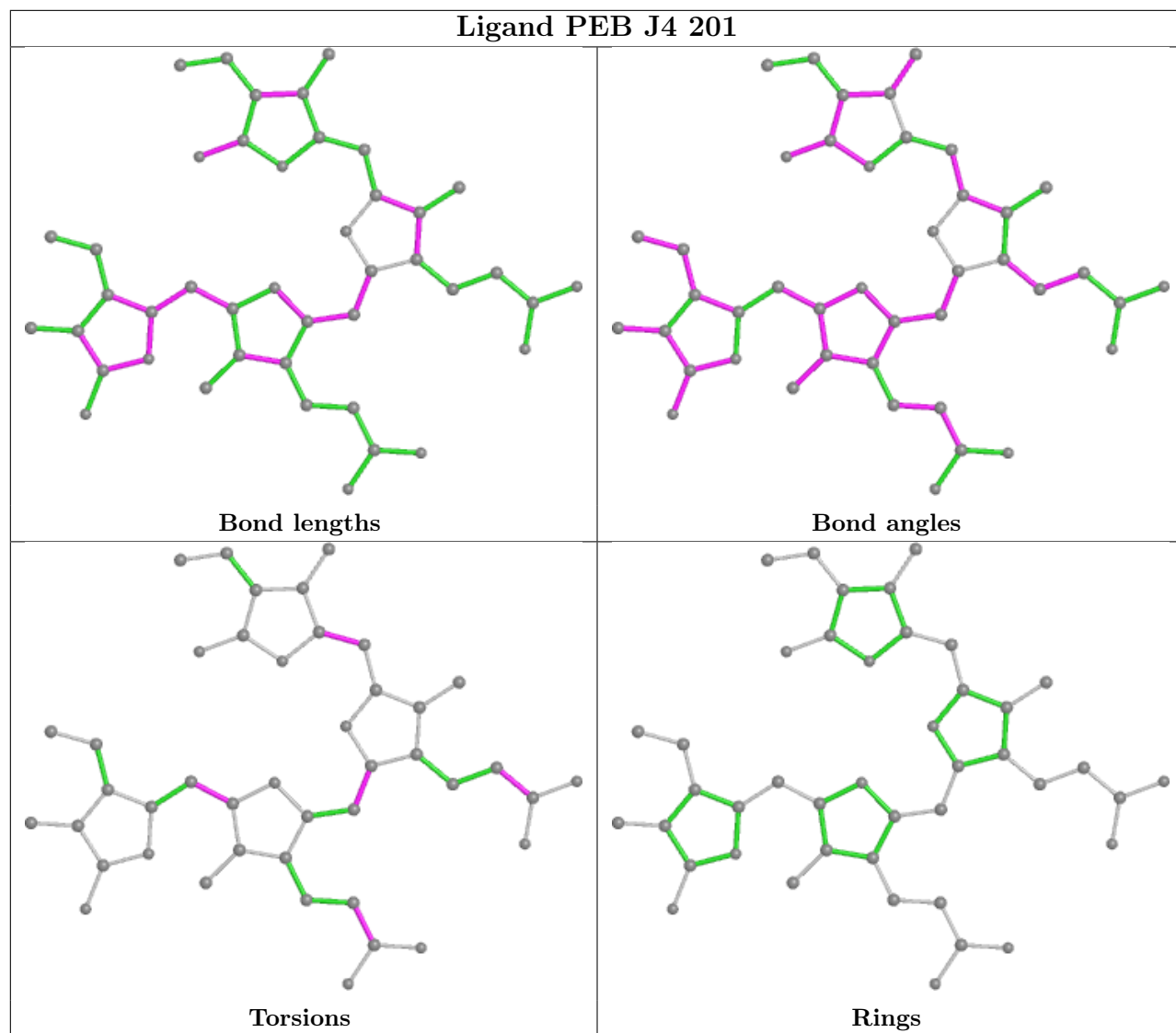
Bond angles



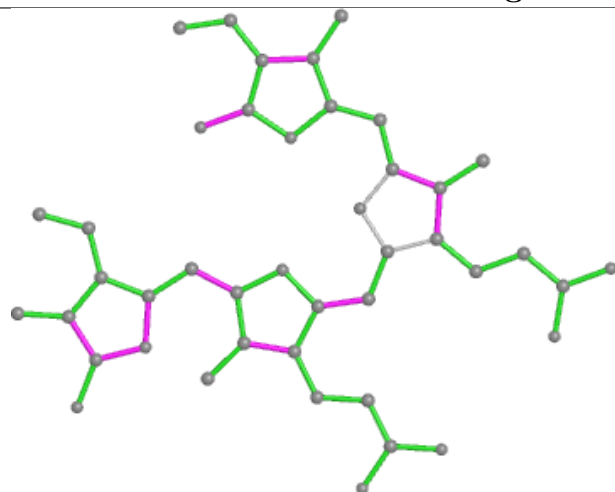
Torsions



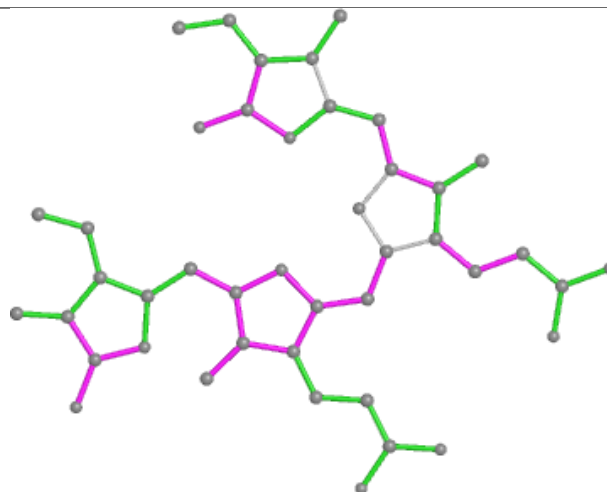
Rings



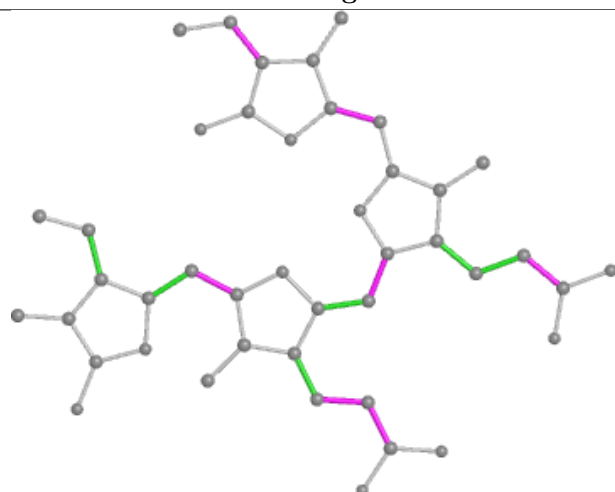
Ligand PEB AF 301



Bond lengths



Bond angles

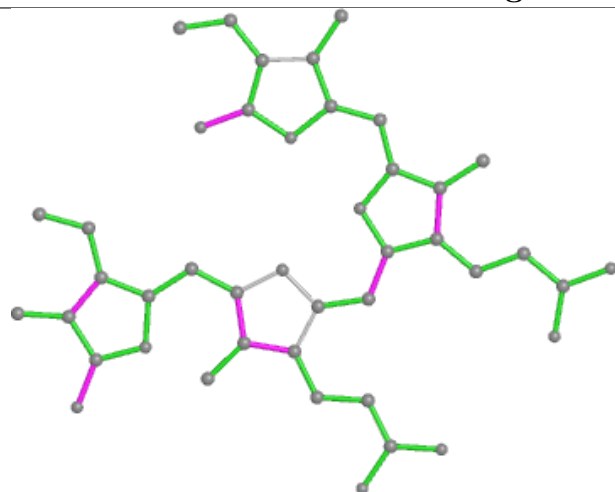


Torsions

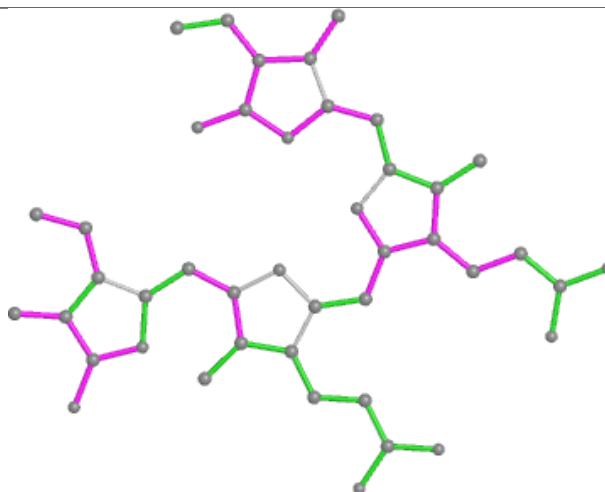


Rings

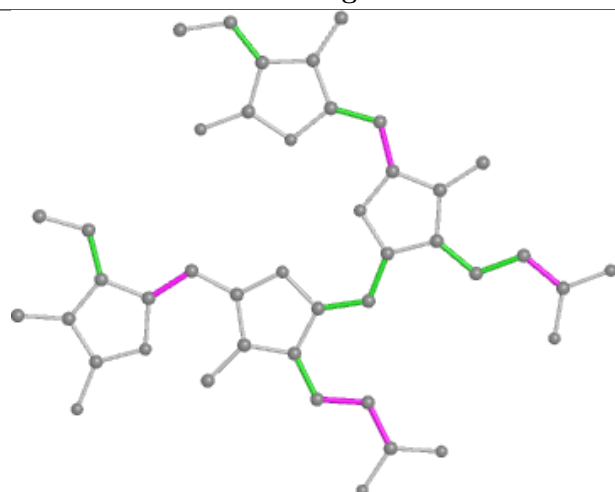
Ligand PUB A7 303



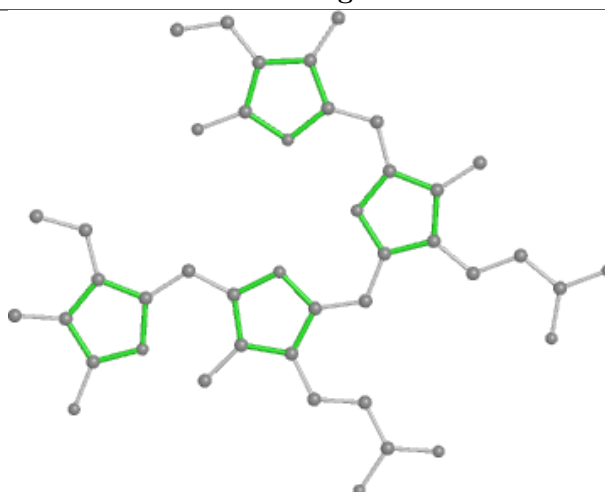
Bond lengths



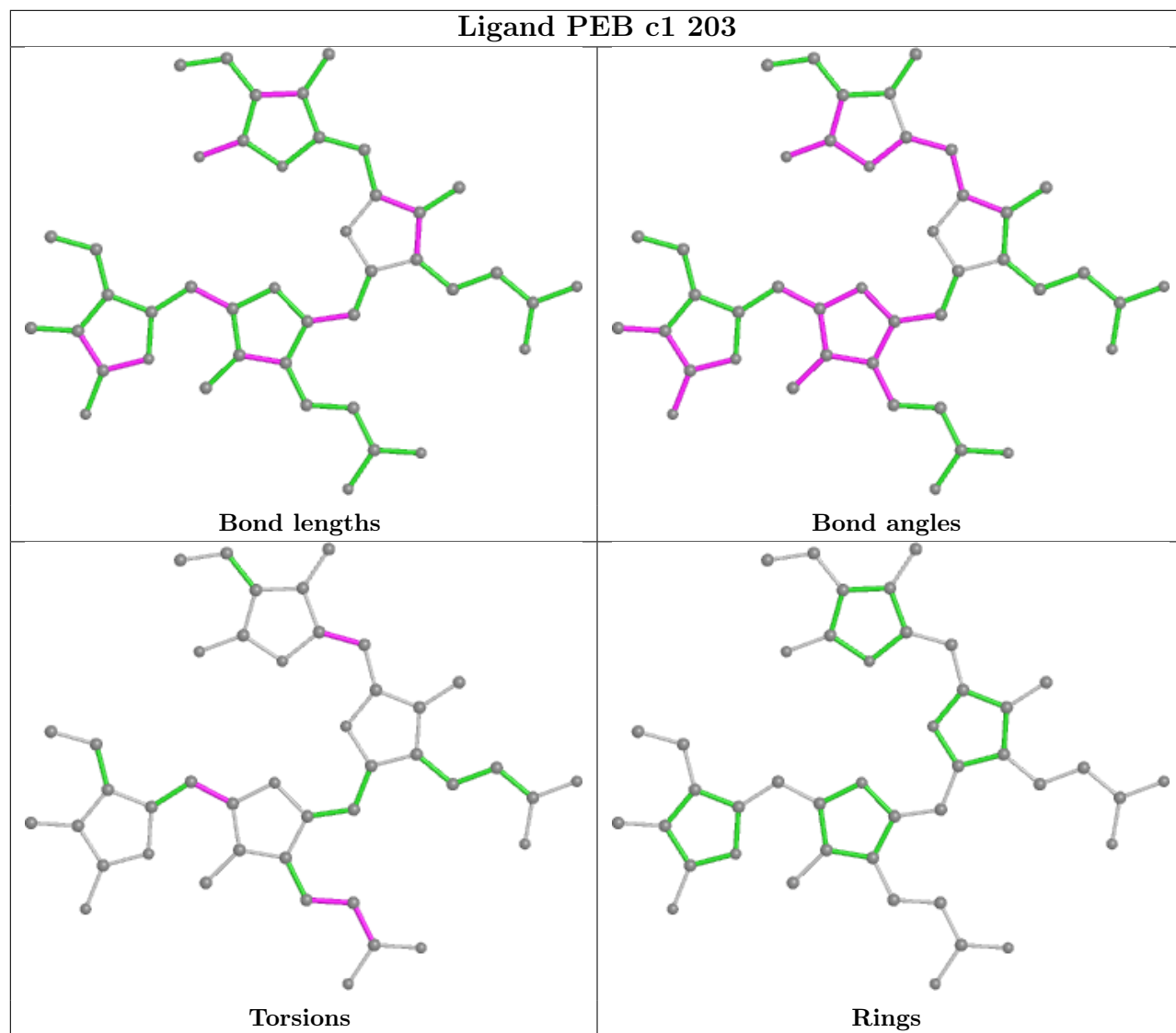
Bond angles



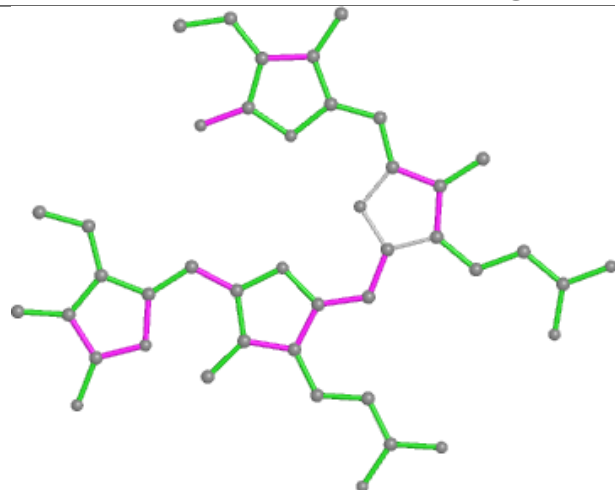
Torsions



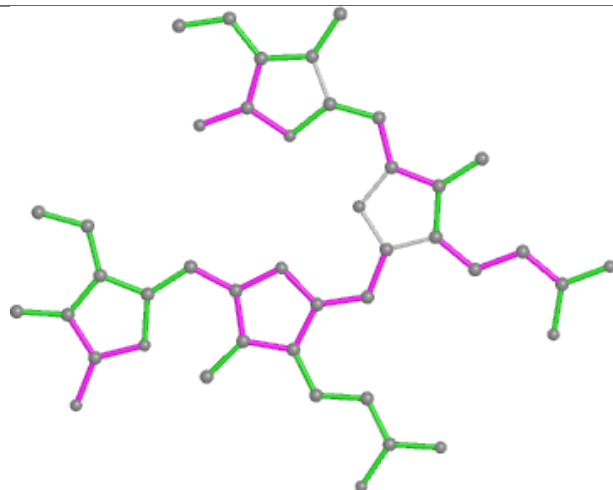
Rings



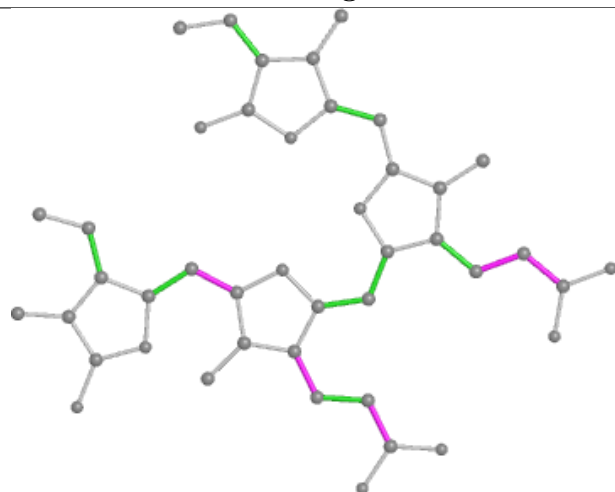
Ligand PEB R2 201



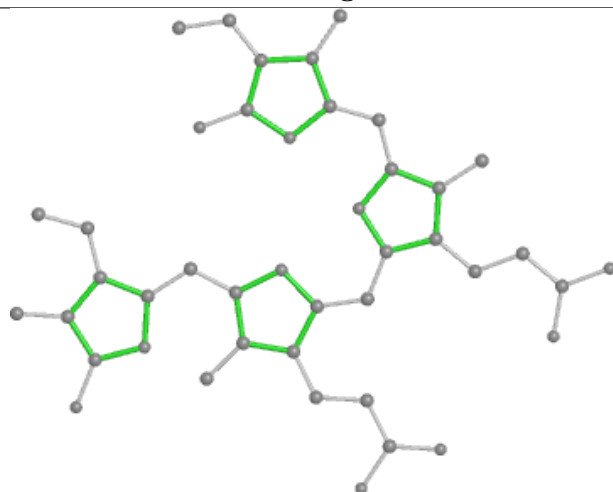
Bond lengths



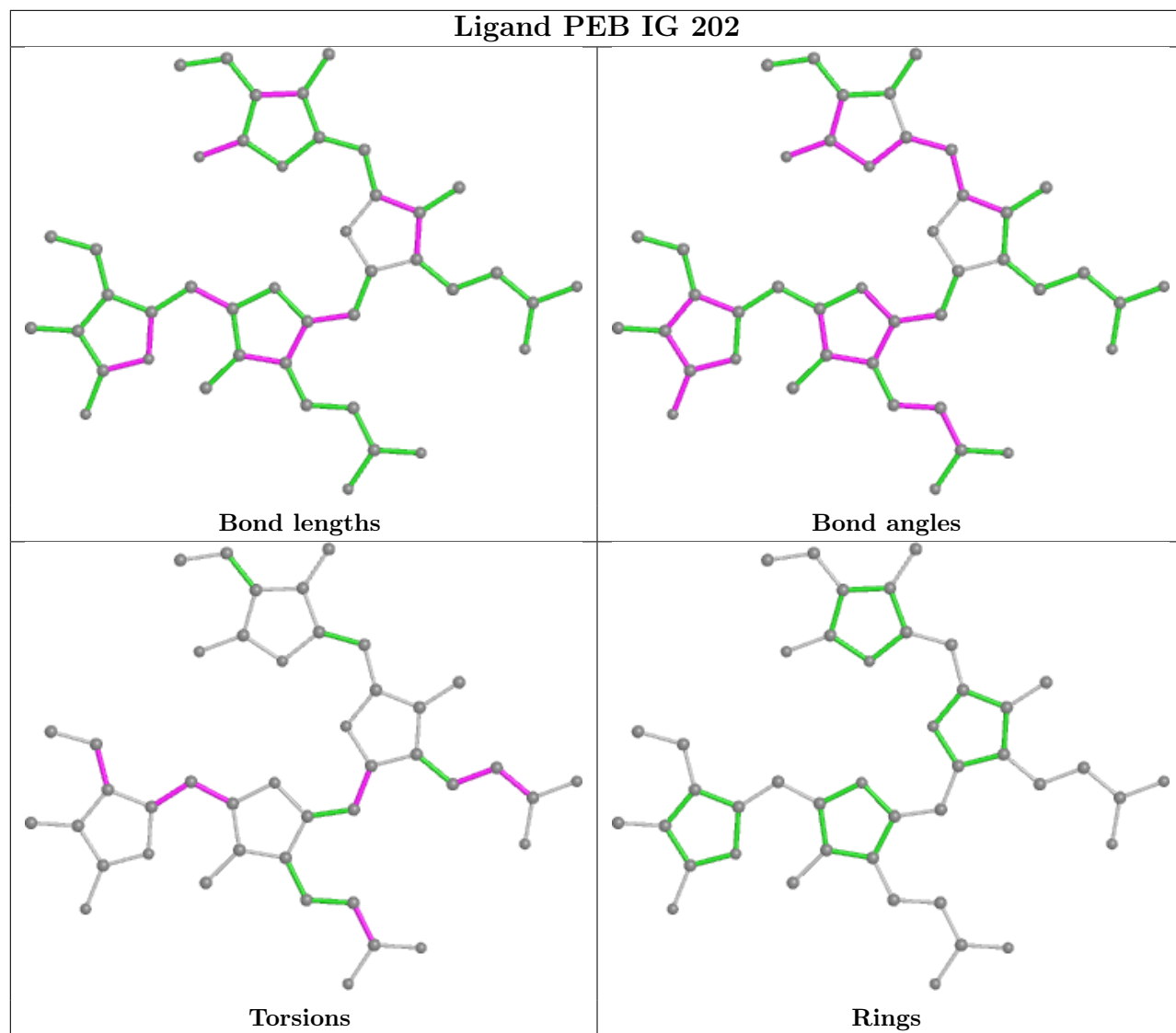
Bond angles

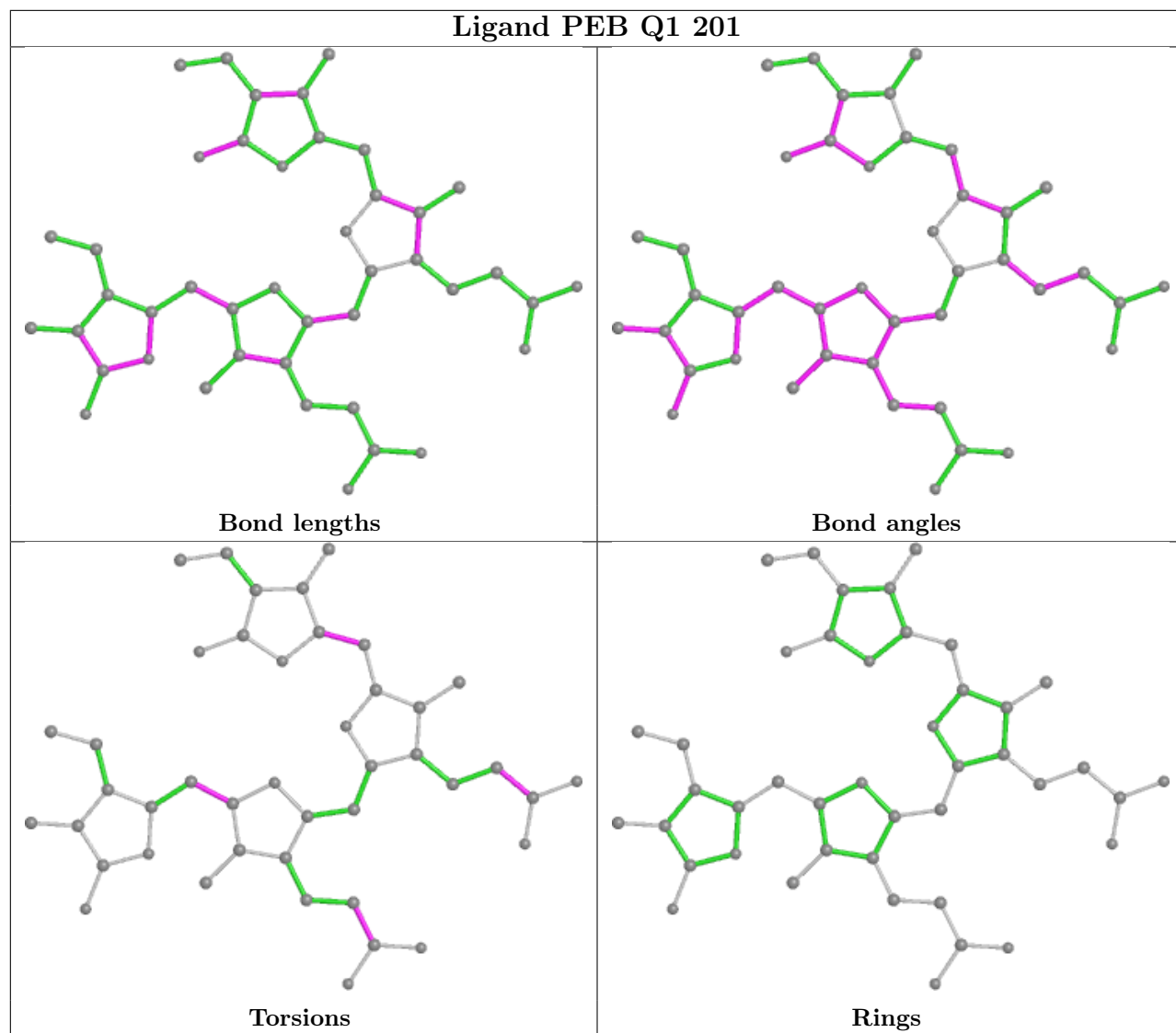


Torsions

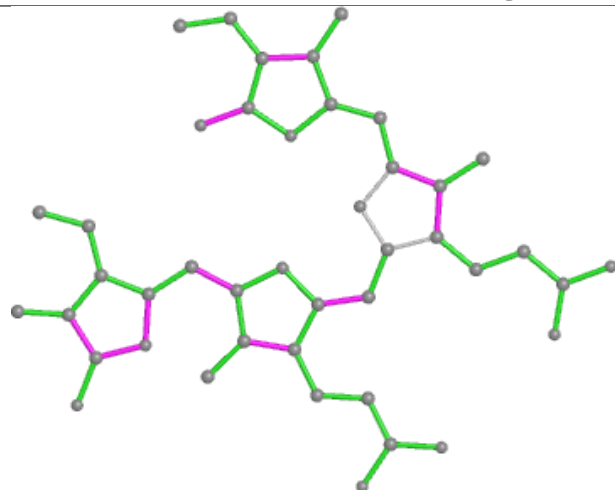


Rings

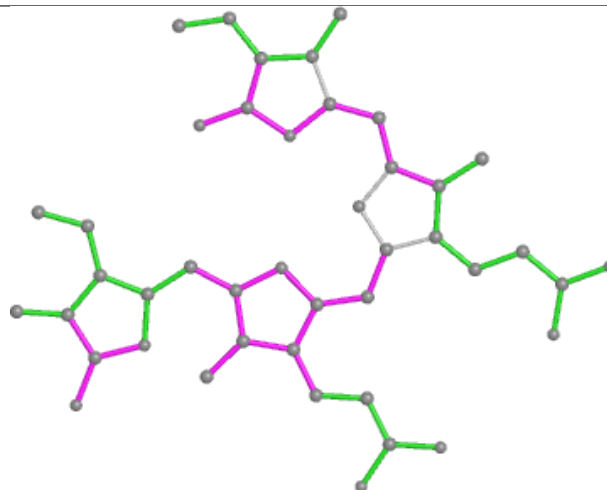




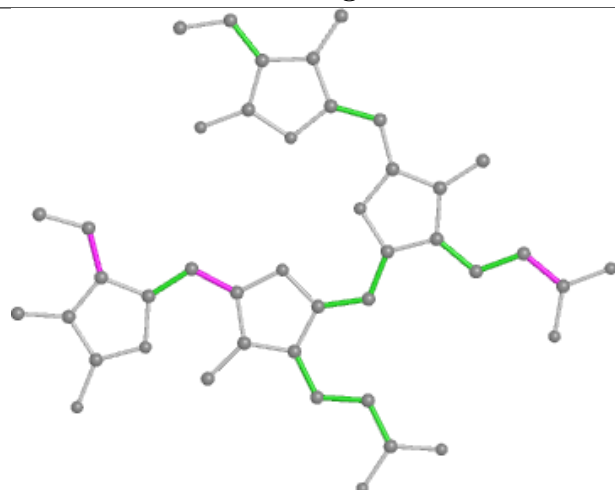
Ligand PEB TM 202



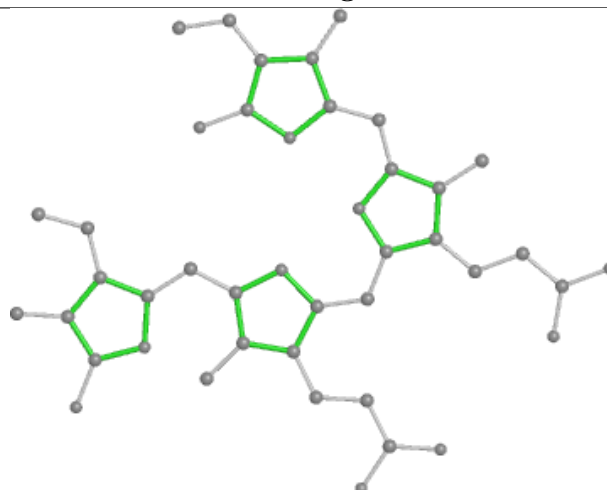
Bond lengths



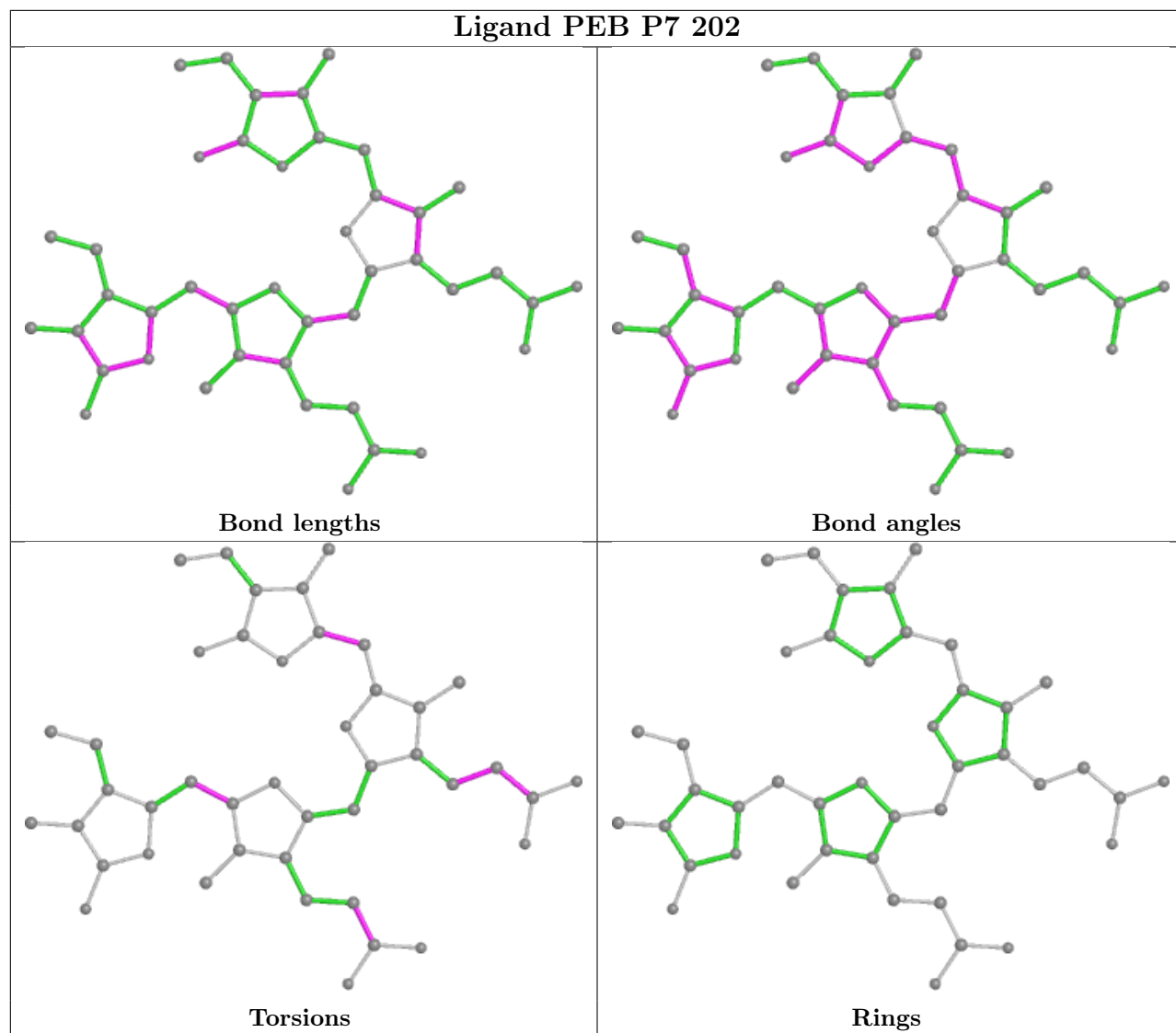
Bond angles



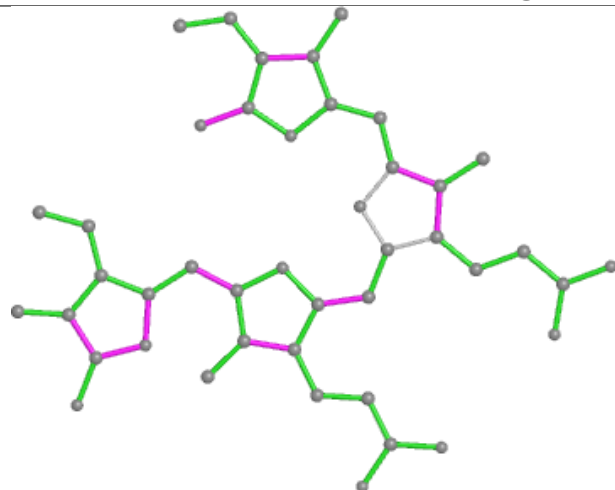
Torsions



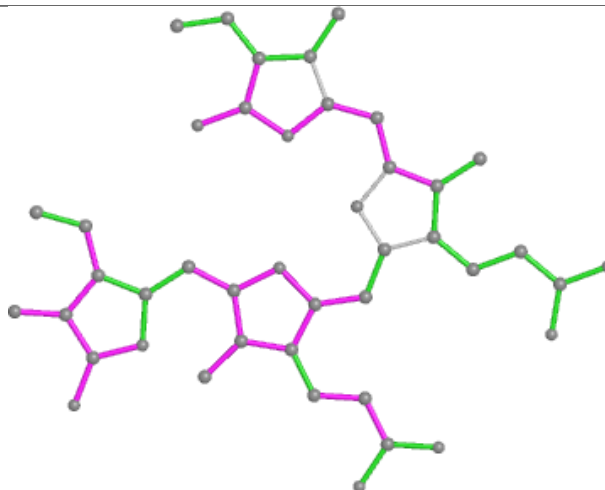
Rings



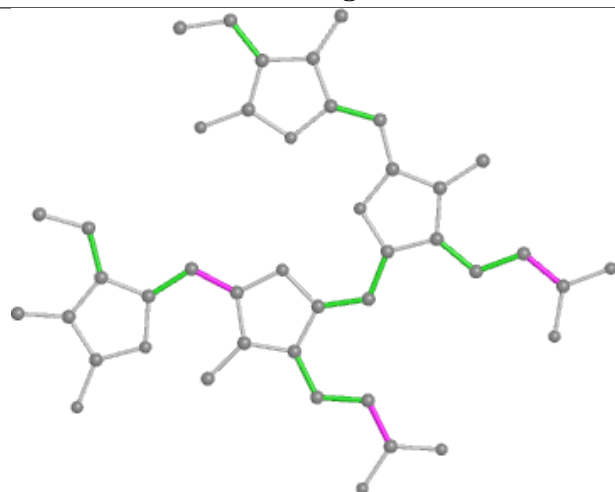
Ligand PEB fl 201



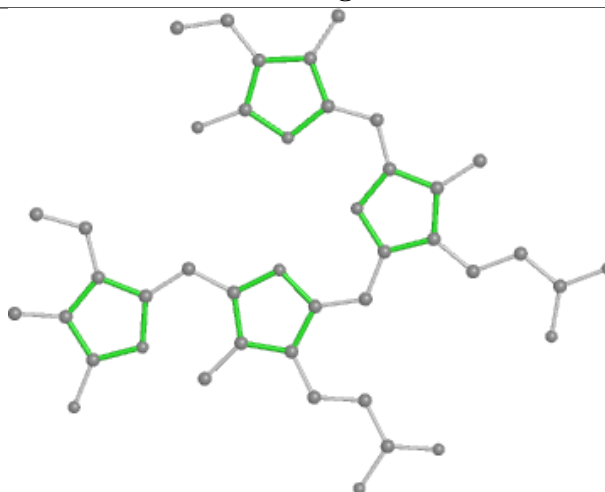
Bond lengths



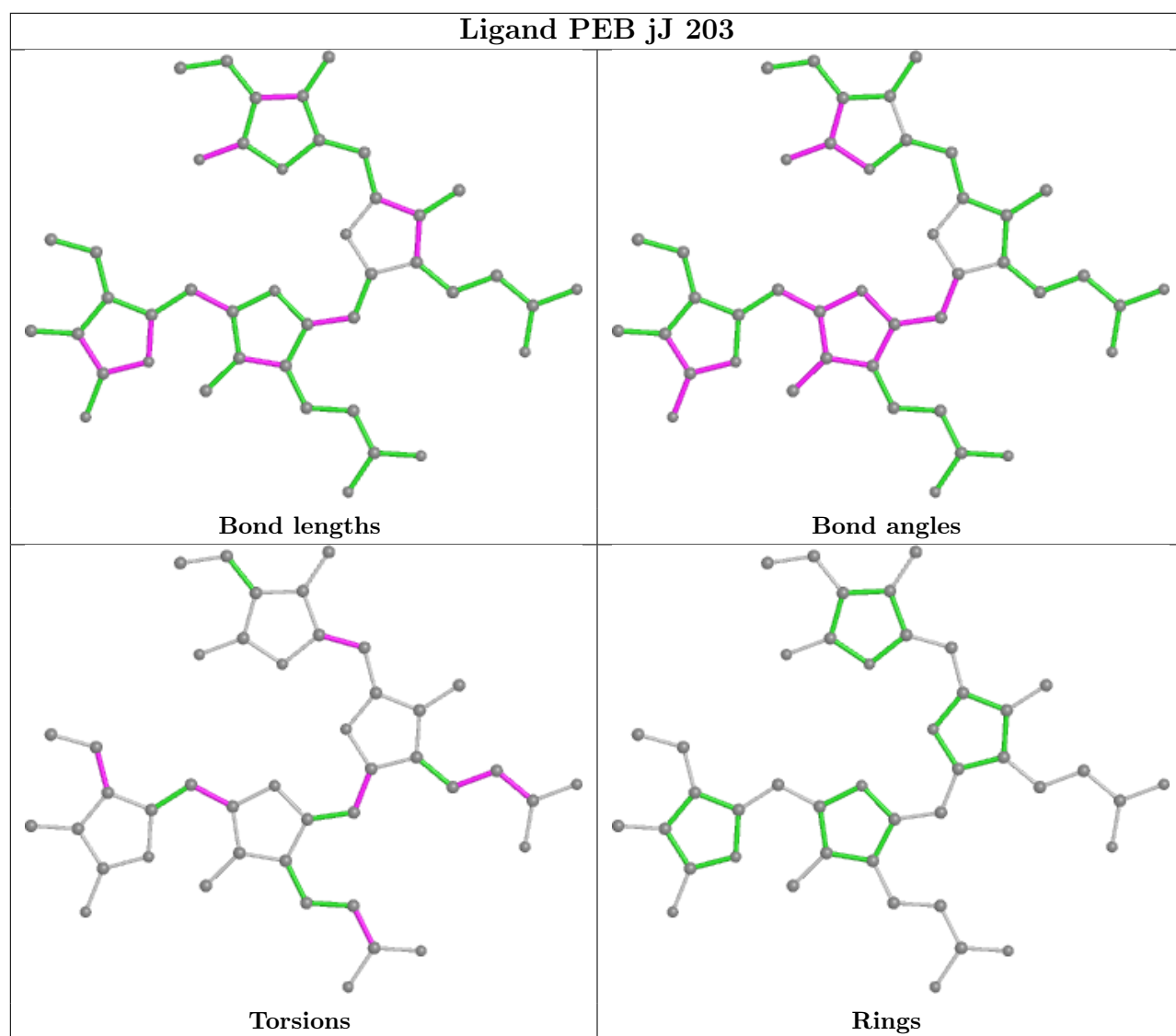
Bond angles

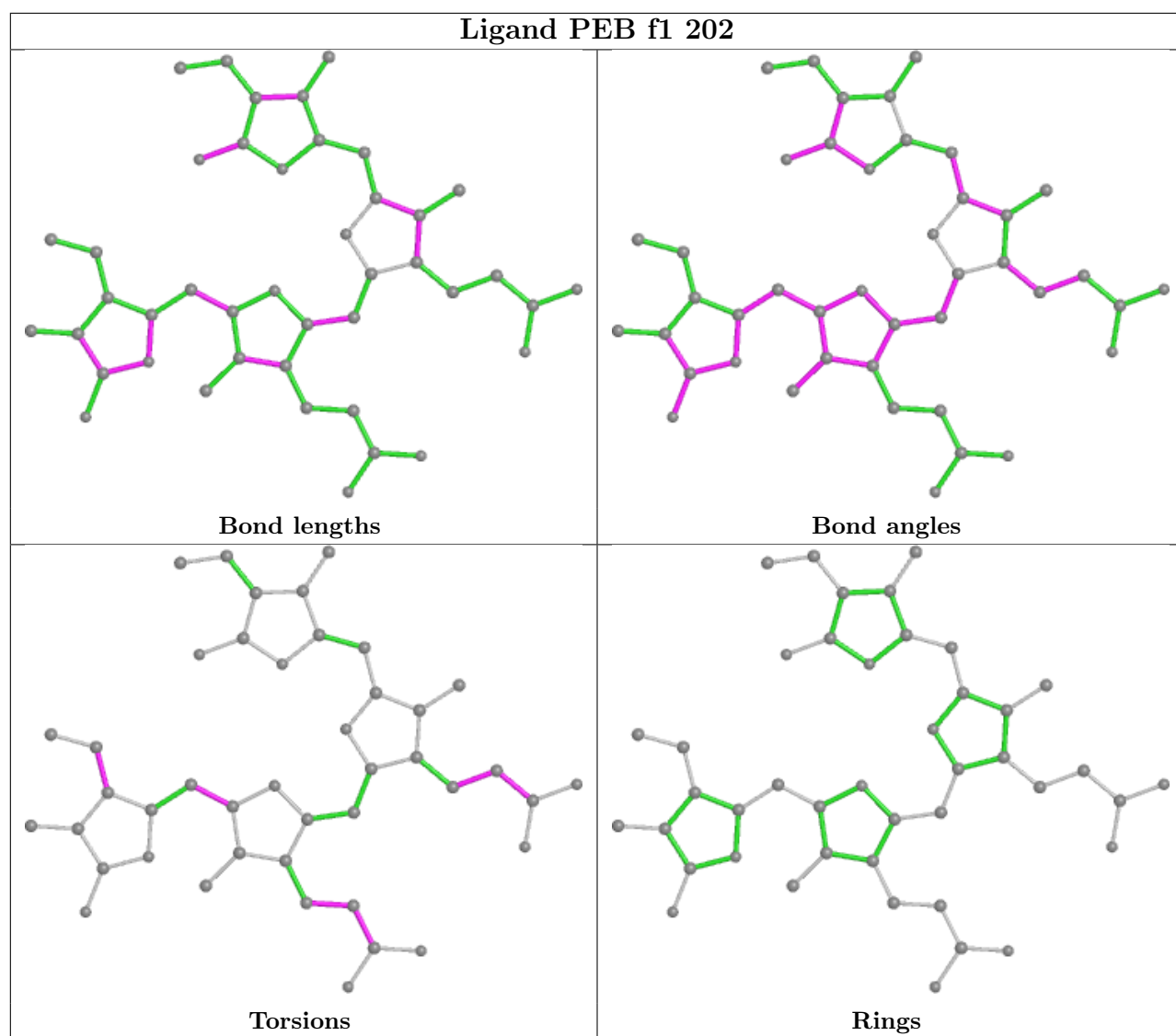


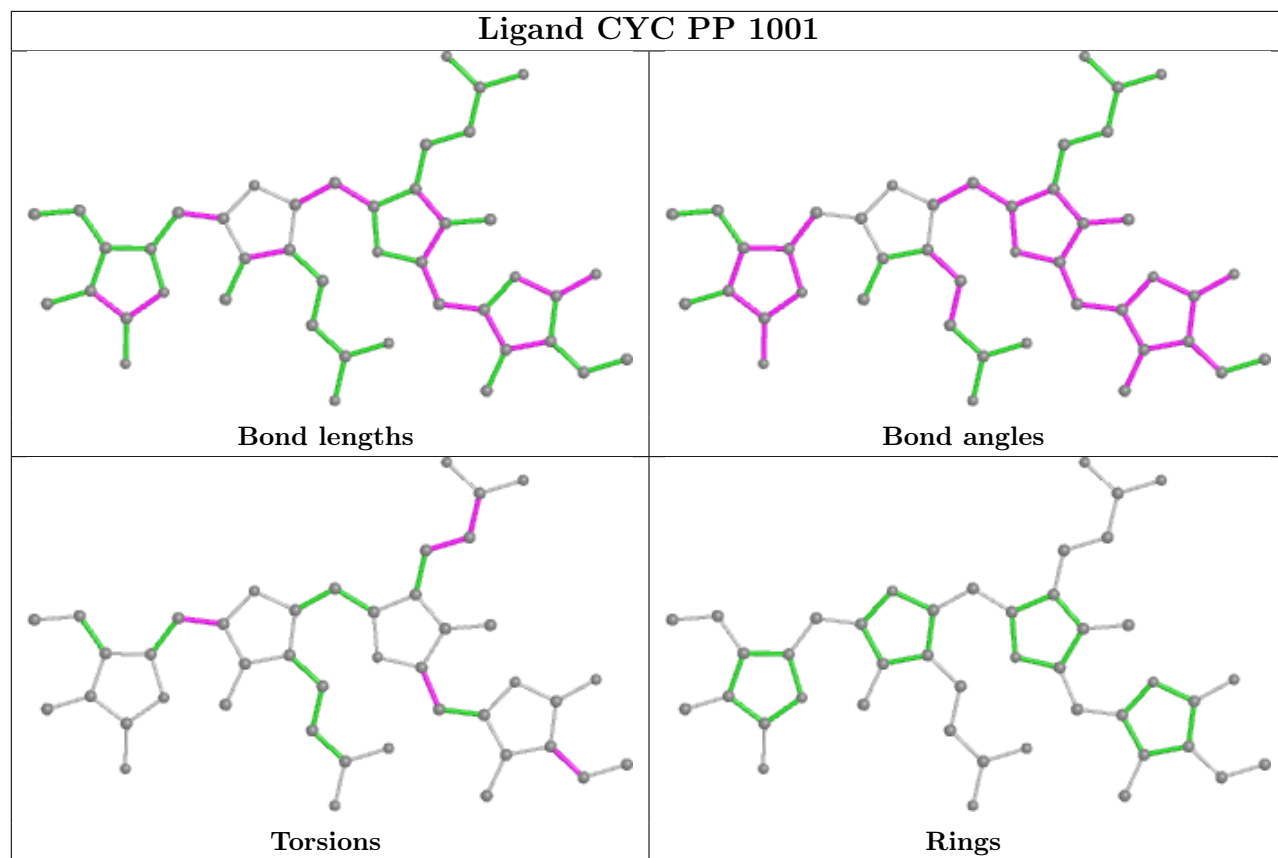
Torsions

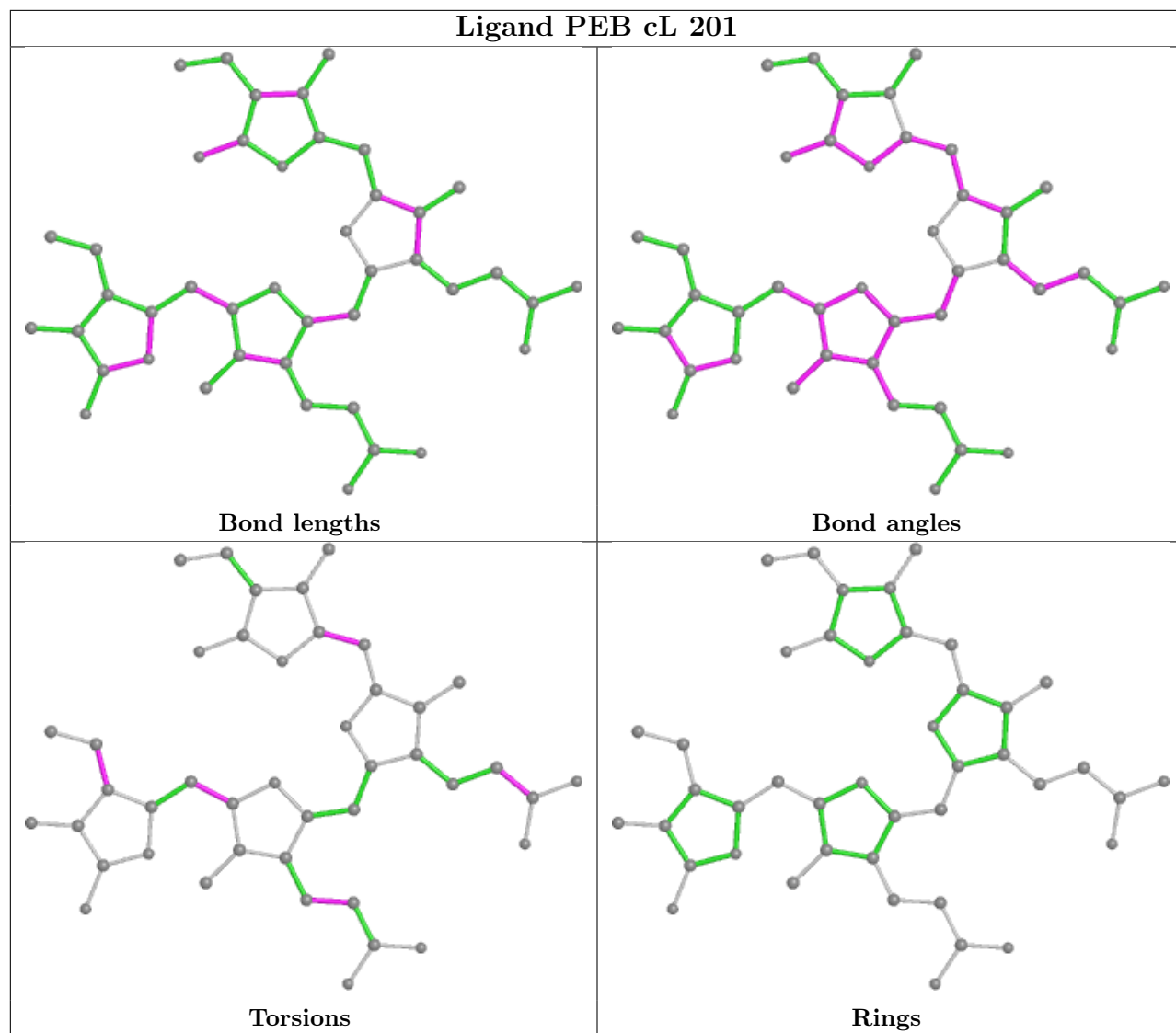


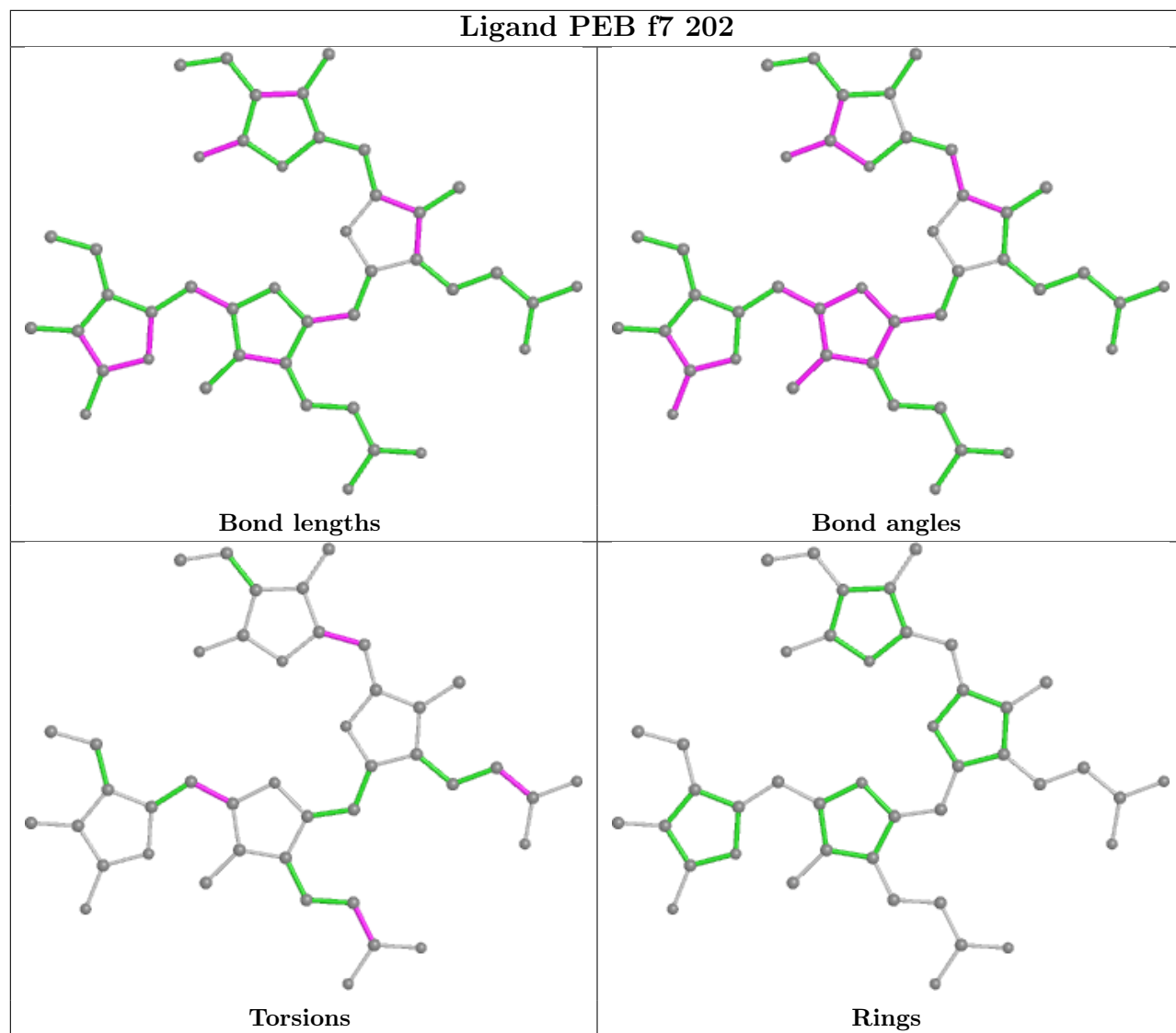
Rings

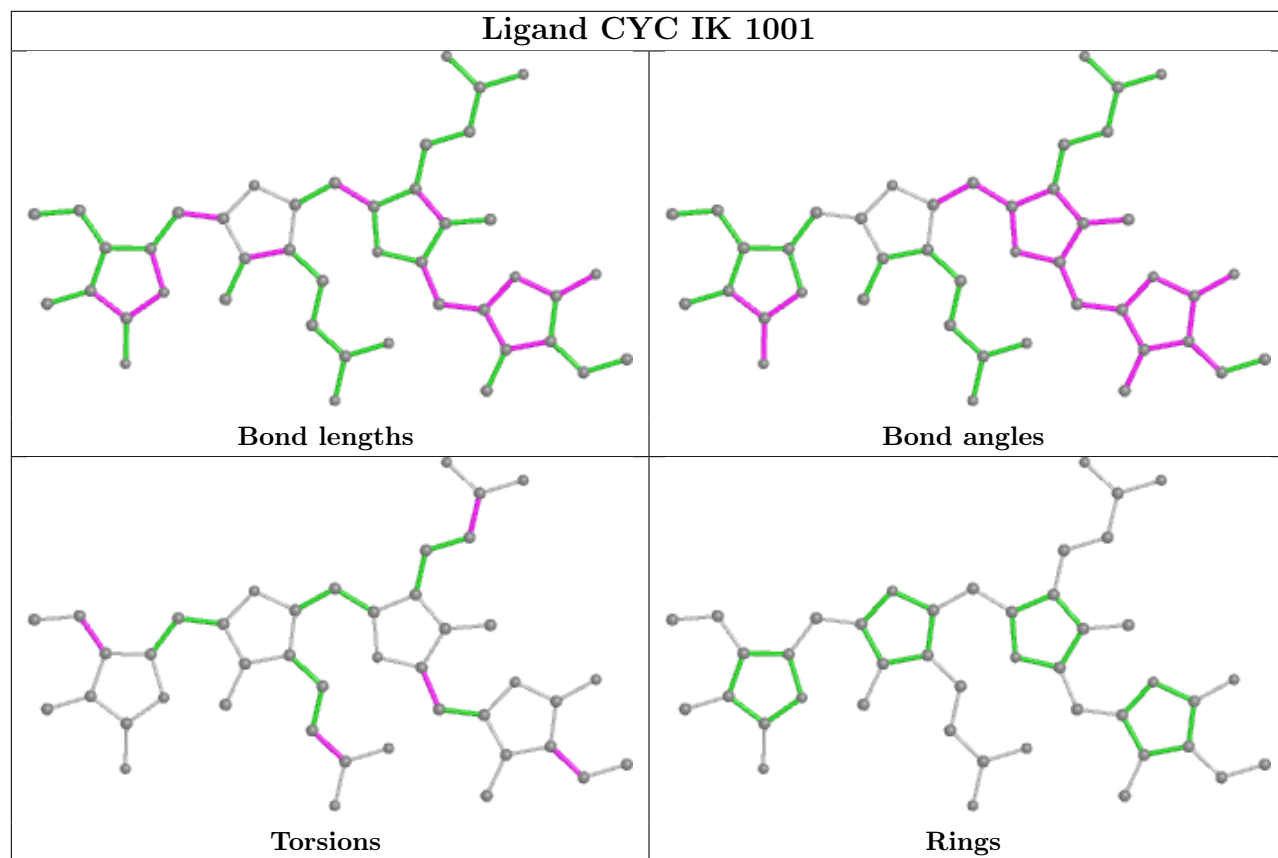




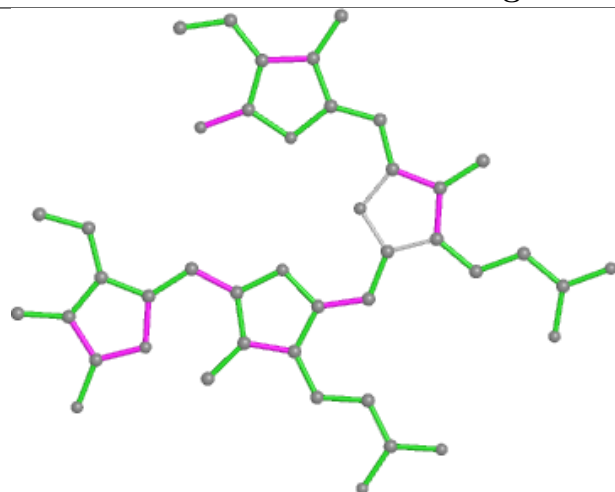




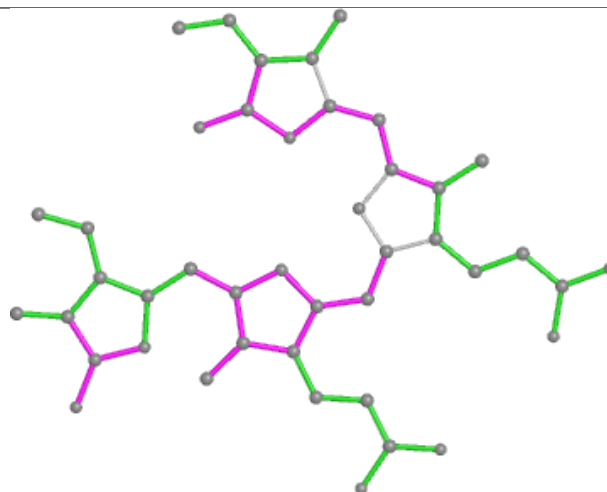




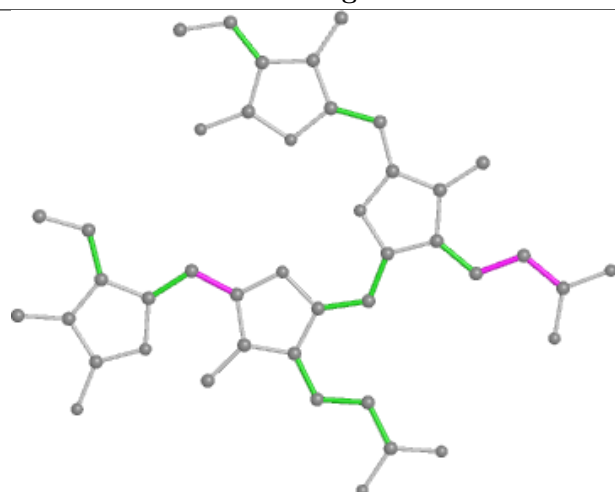
Ligand PEB GB 201



Bond lengths



Bond angles

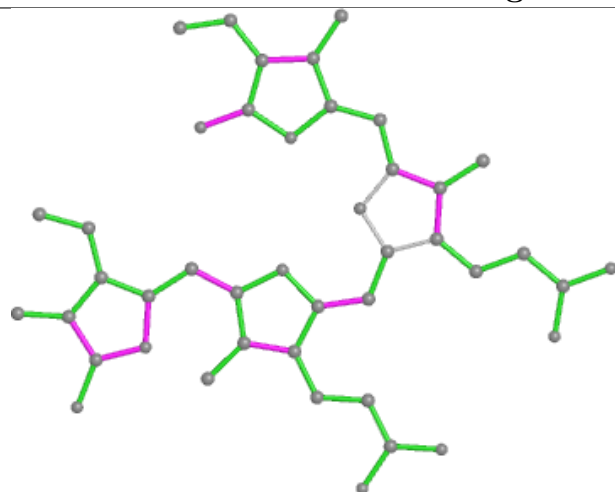


Torsions

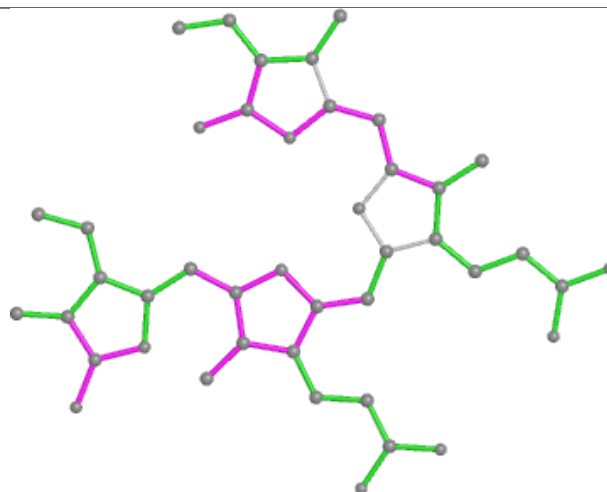


Rings

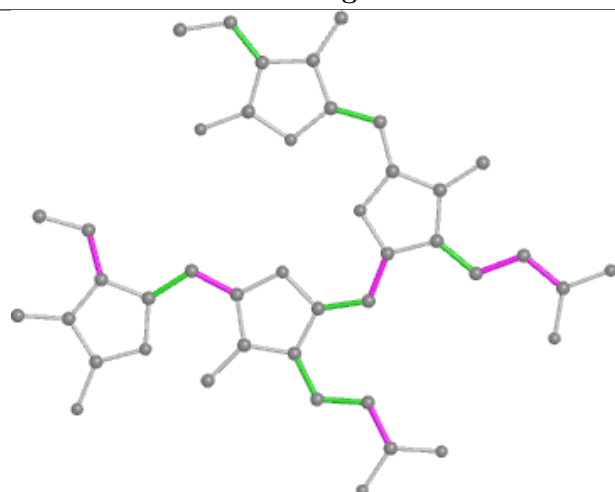
Ligand PEB CL 202



Bond lengths



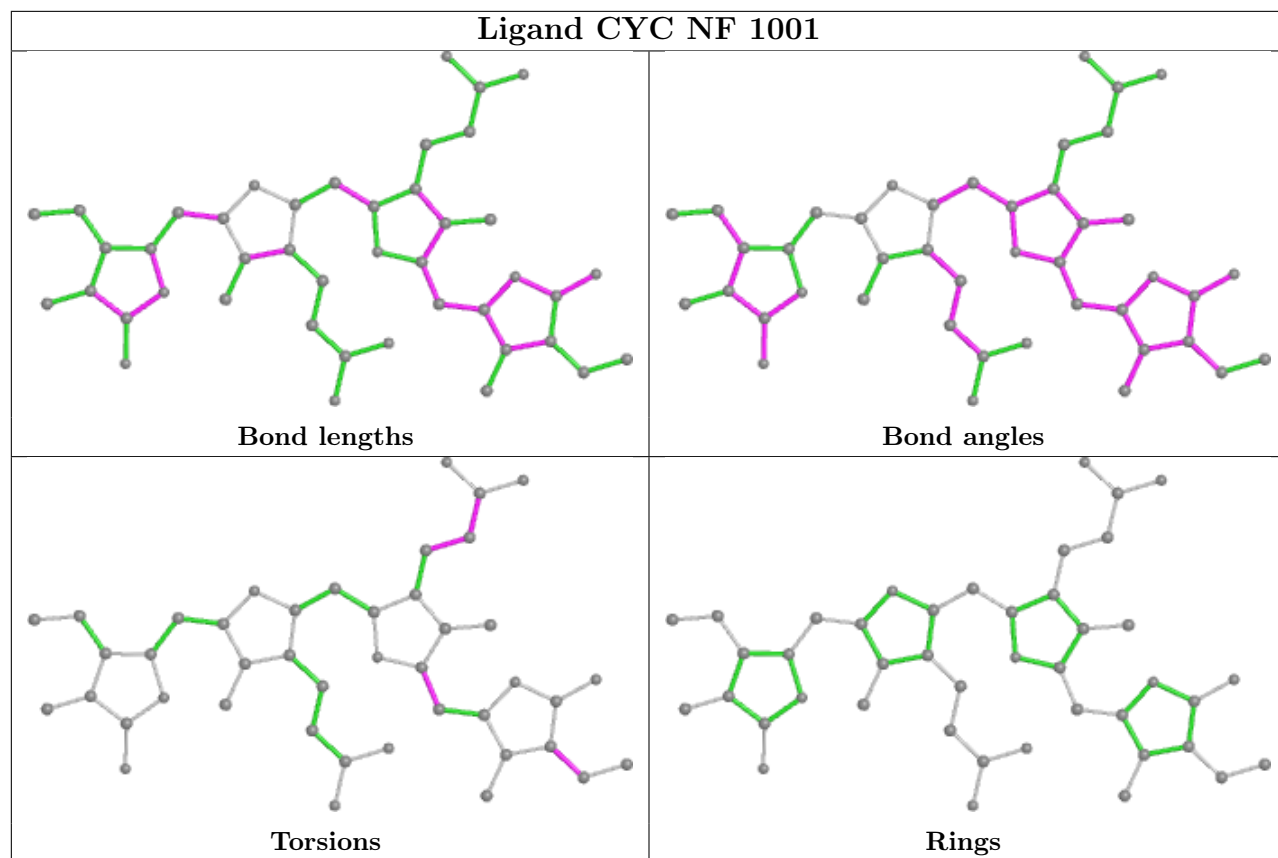
Bond angles

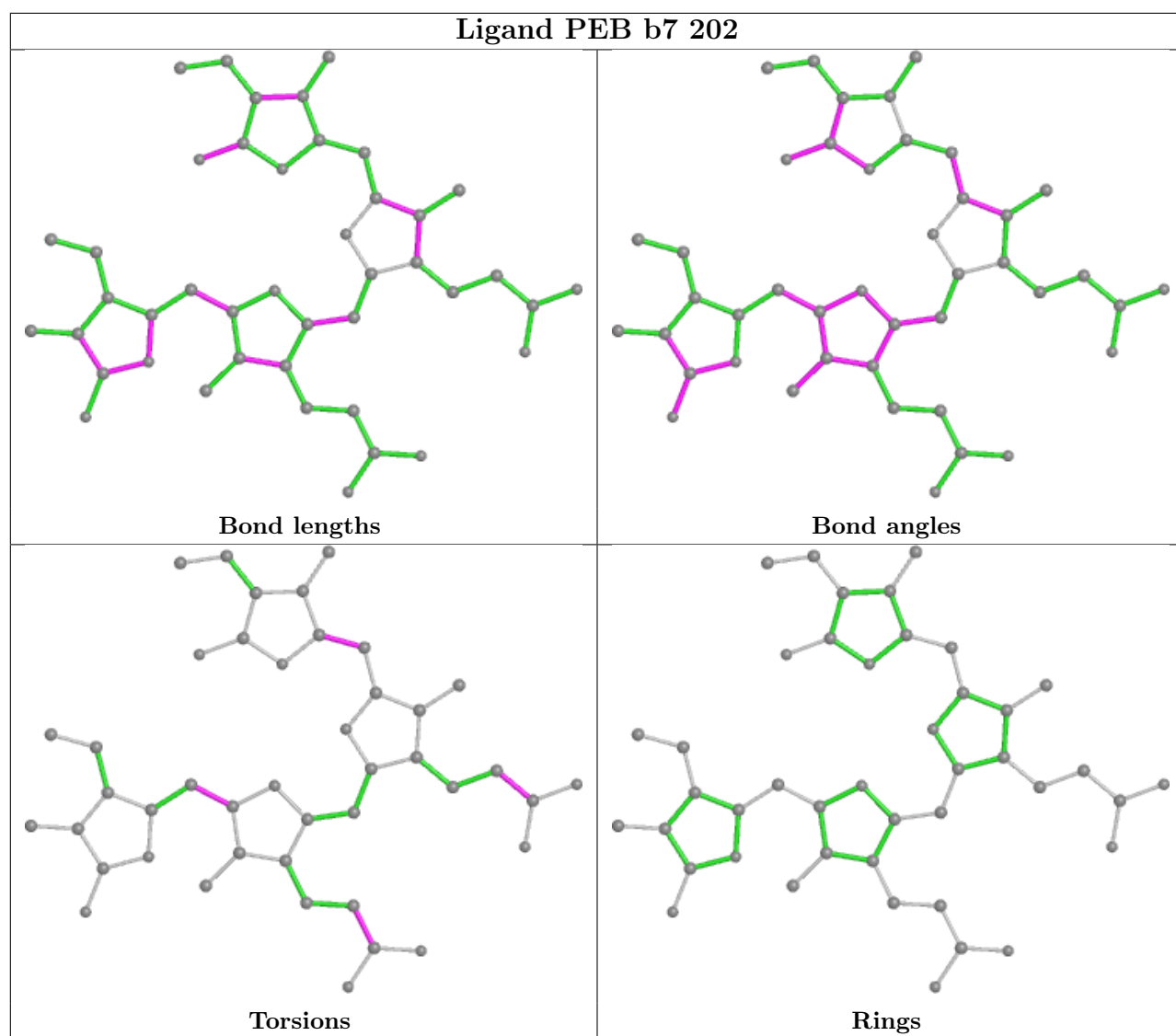


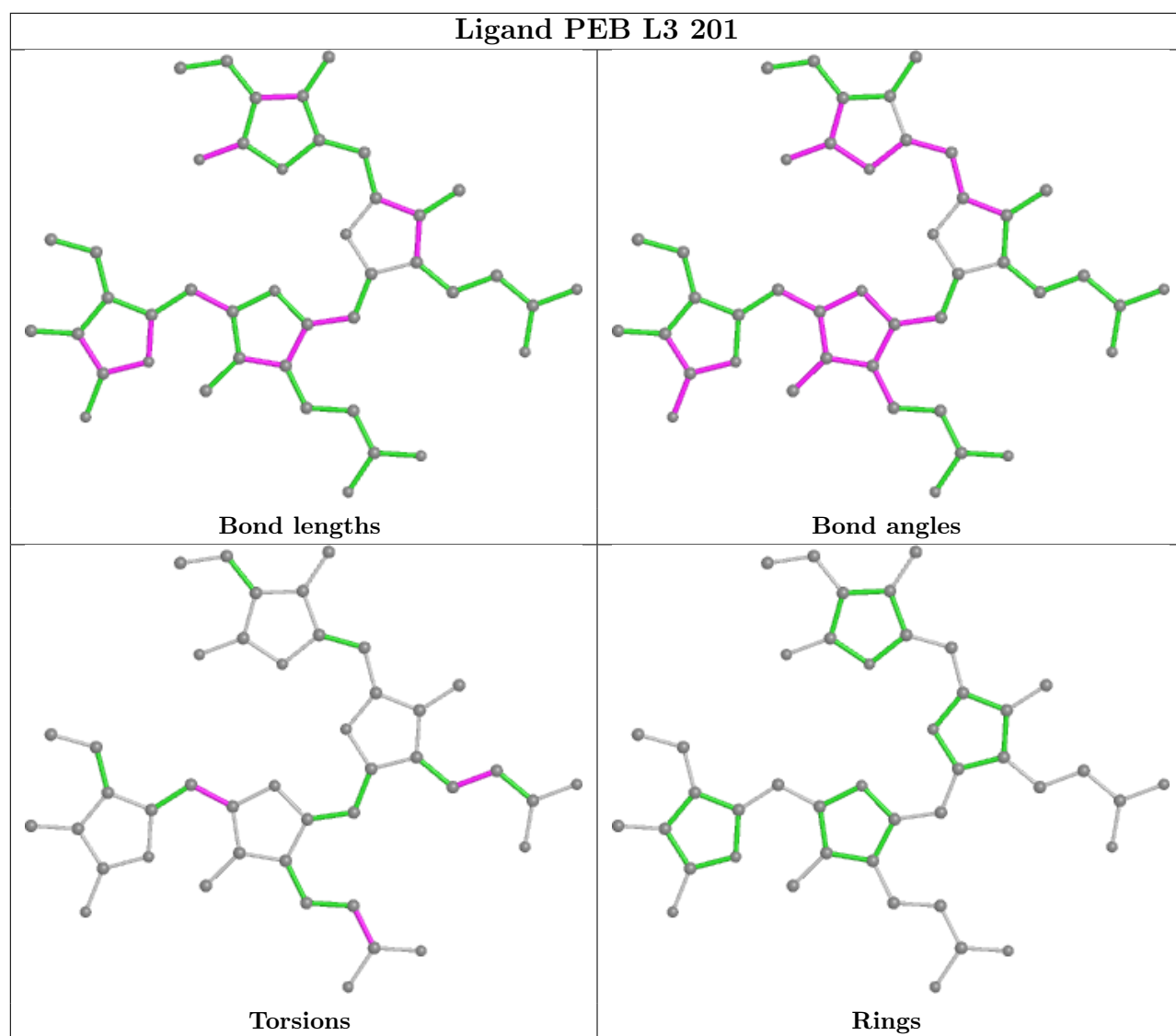
Torsions



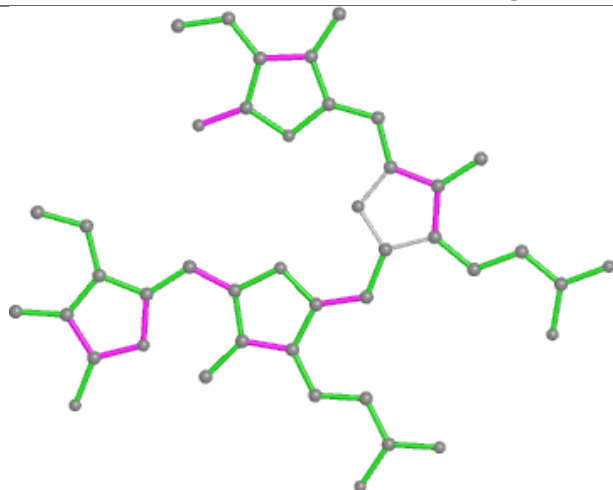
Rings



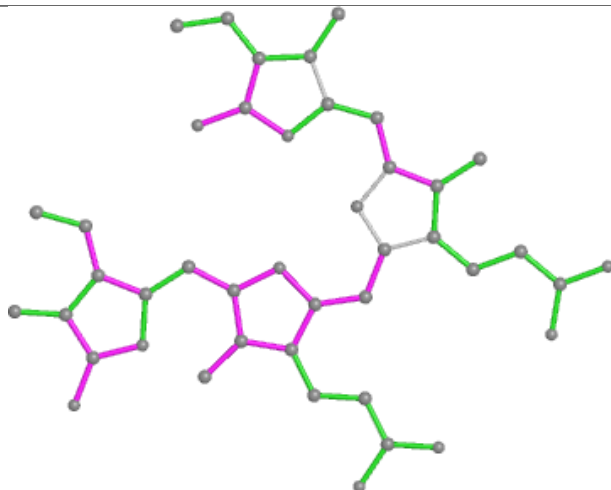




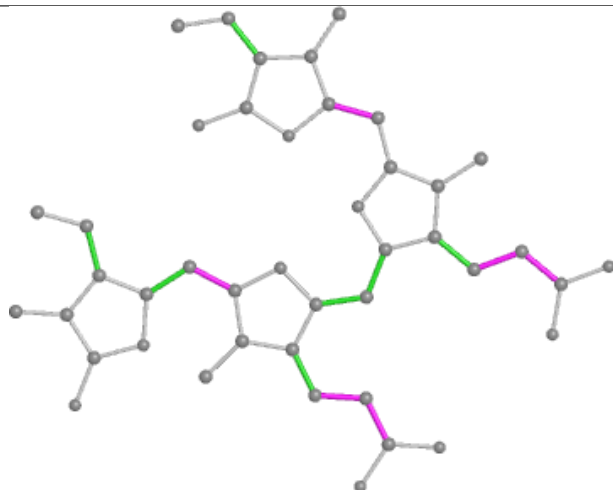
Ligand PEB A9 304



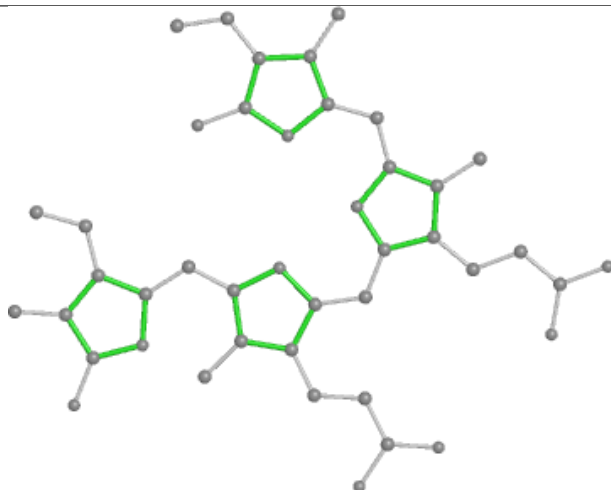
Bond lengths



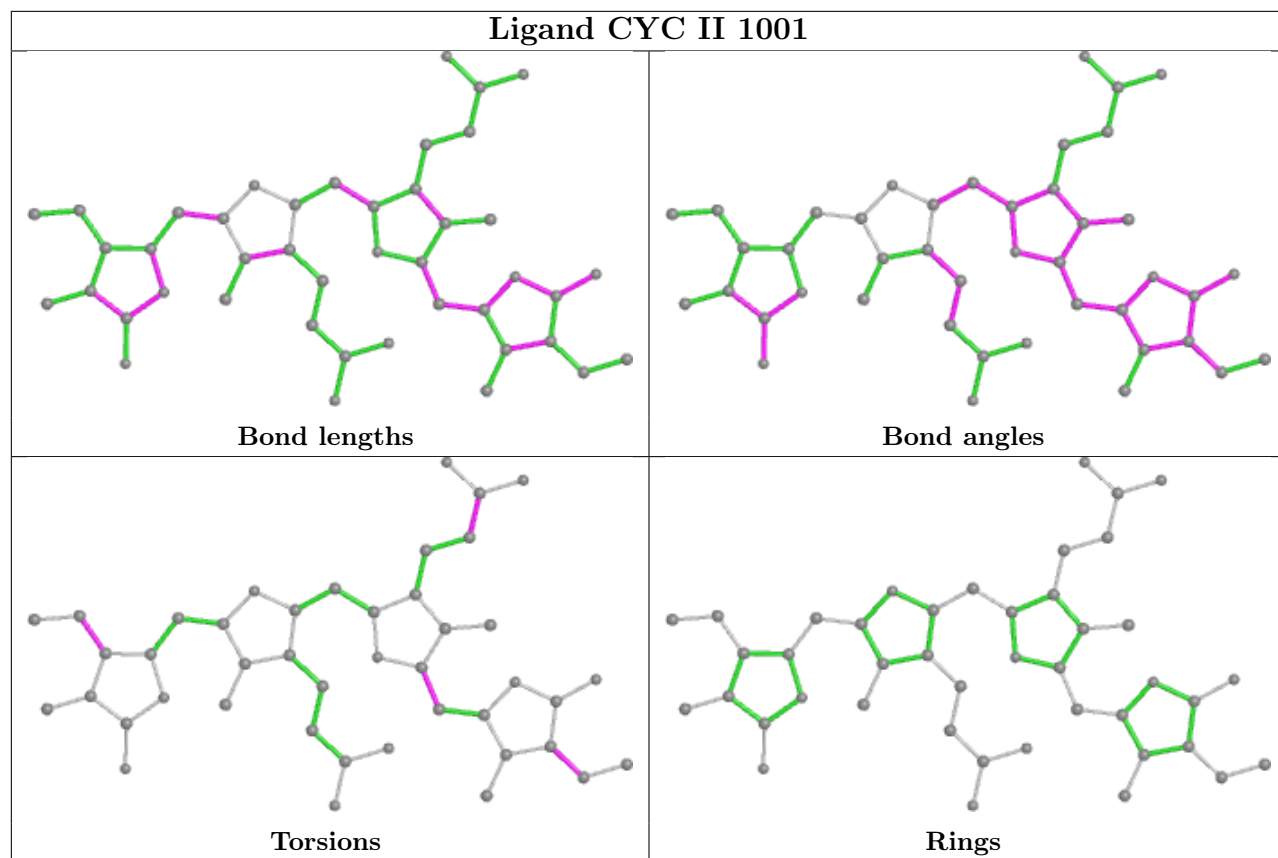
Bond angles



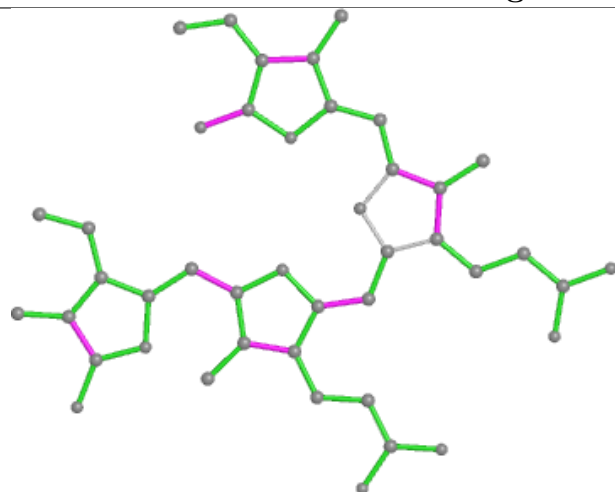
Torsions



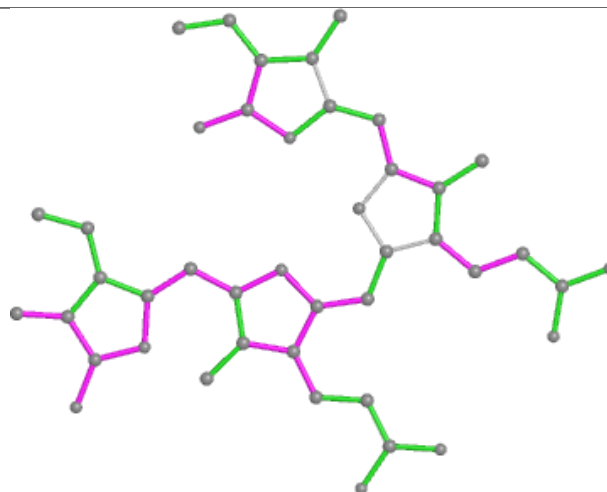
Rings



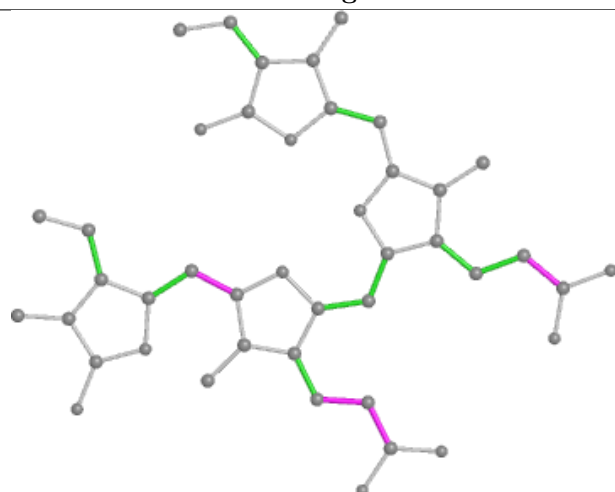
Ligand PEB PL 201



Bond lengths



Bond angles

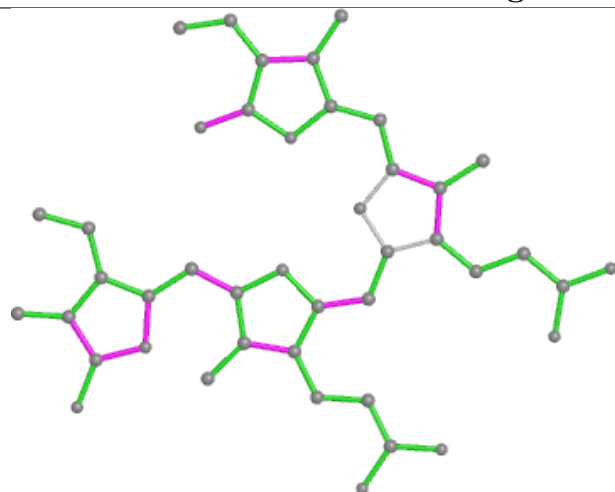


Torsions

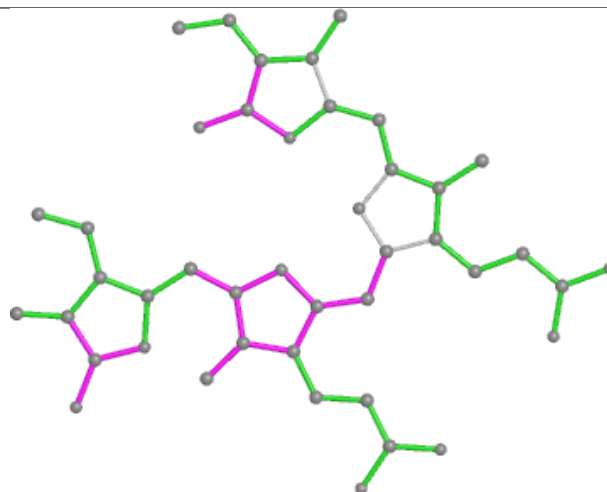


Rings

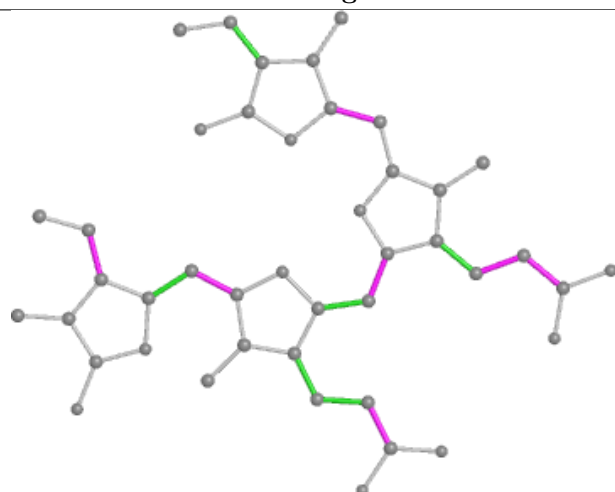
Ligand PEB XJ 203



Bond lengths



Bond angles

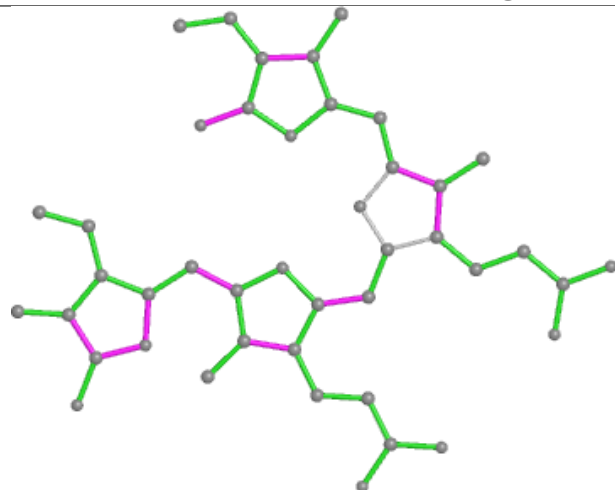


Torsions

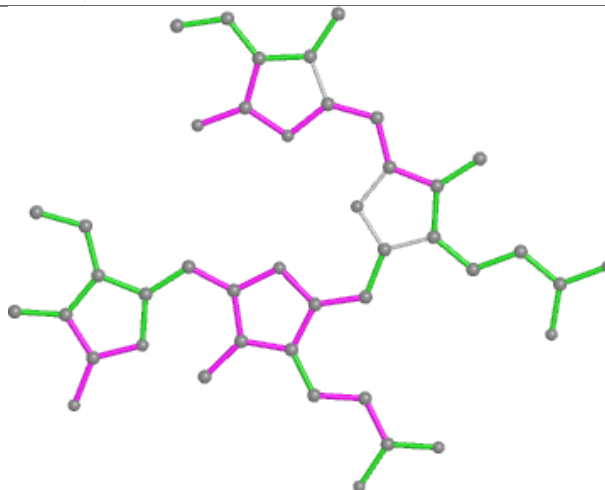


Rings

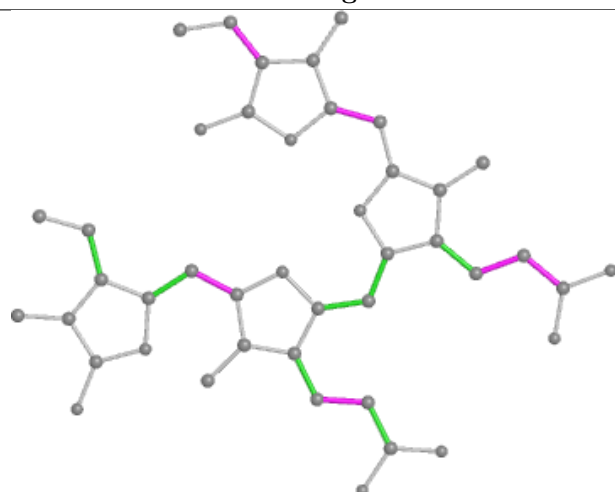
Ligand PEB MQ 402



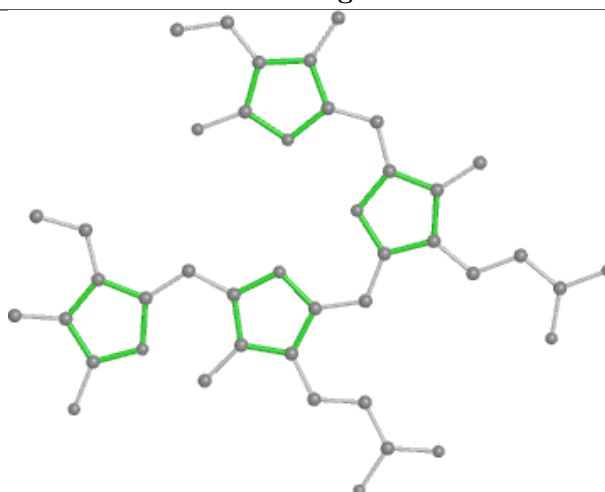
Bond lengths



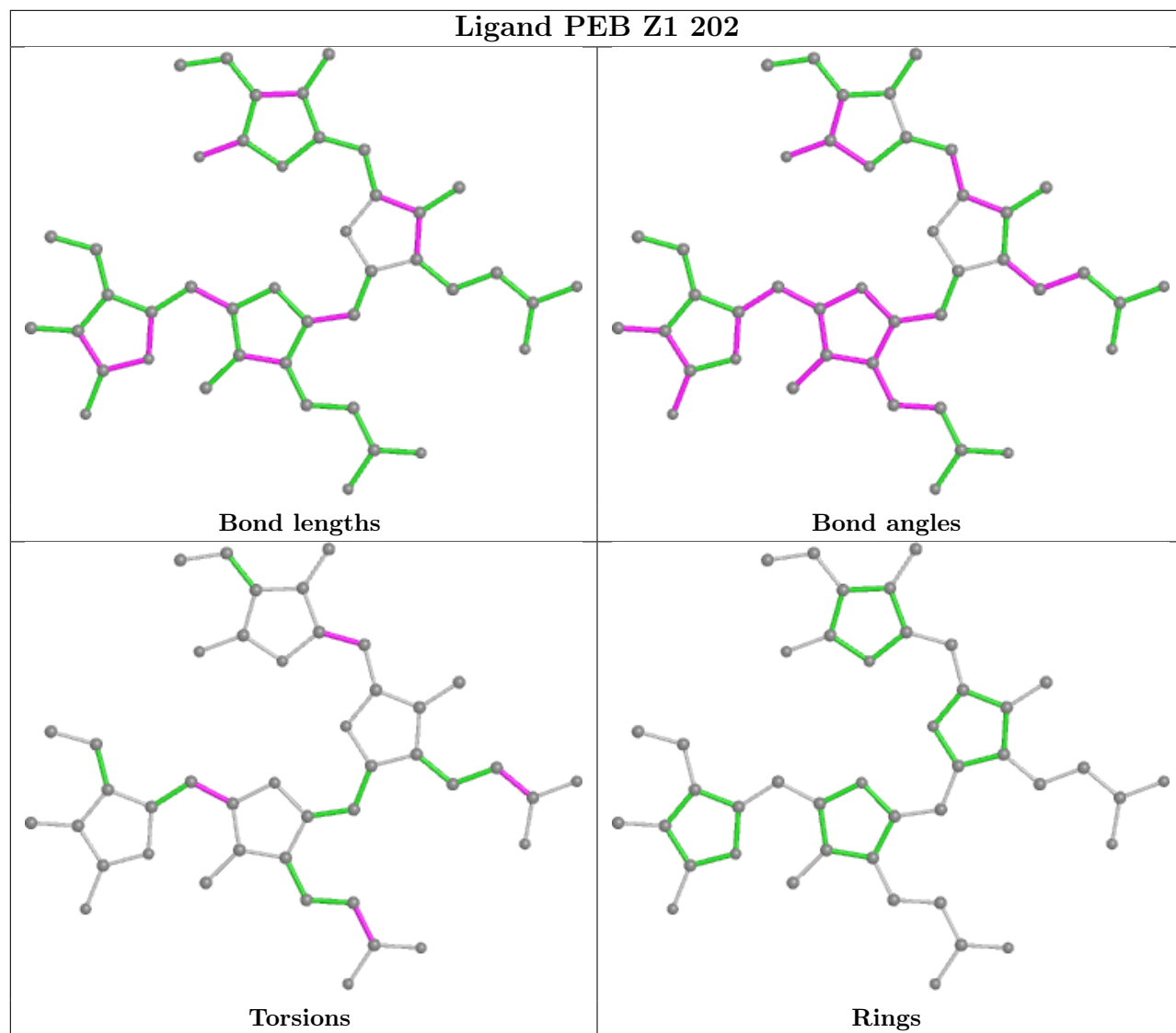
Bond angles



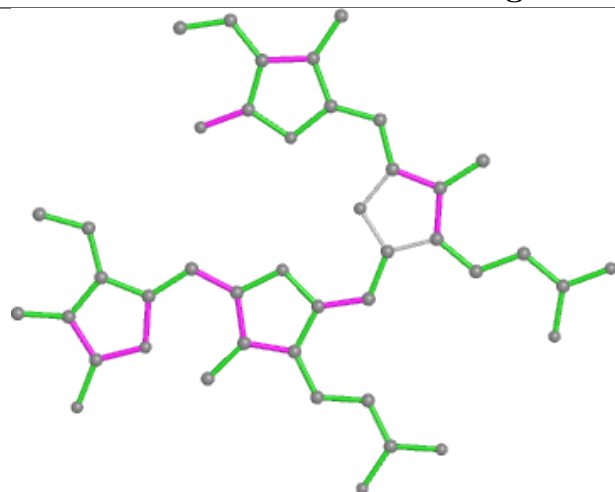
Torsions



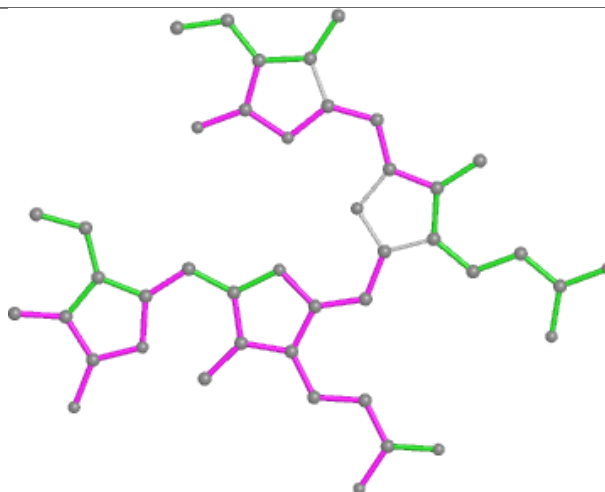
Rings



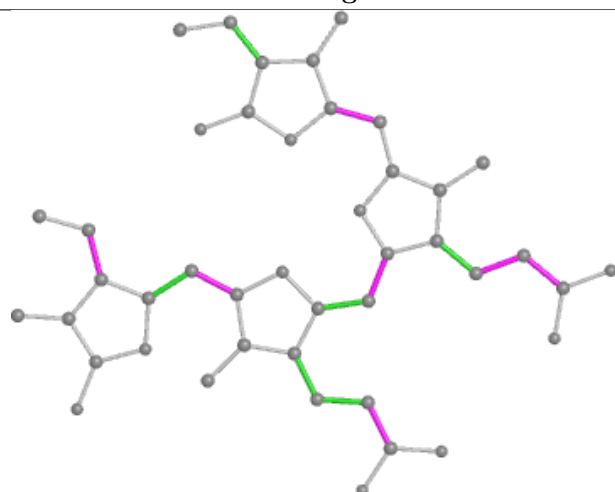
Ligand PEB FB 203



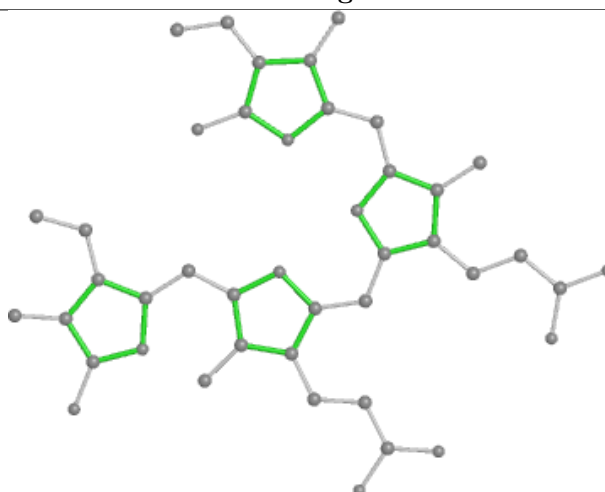
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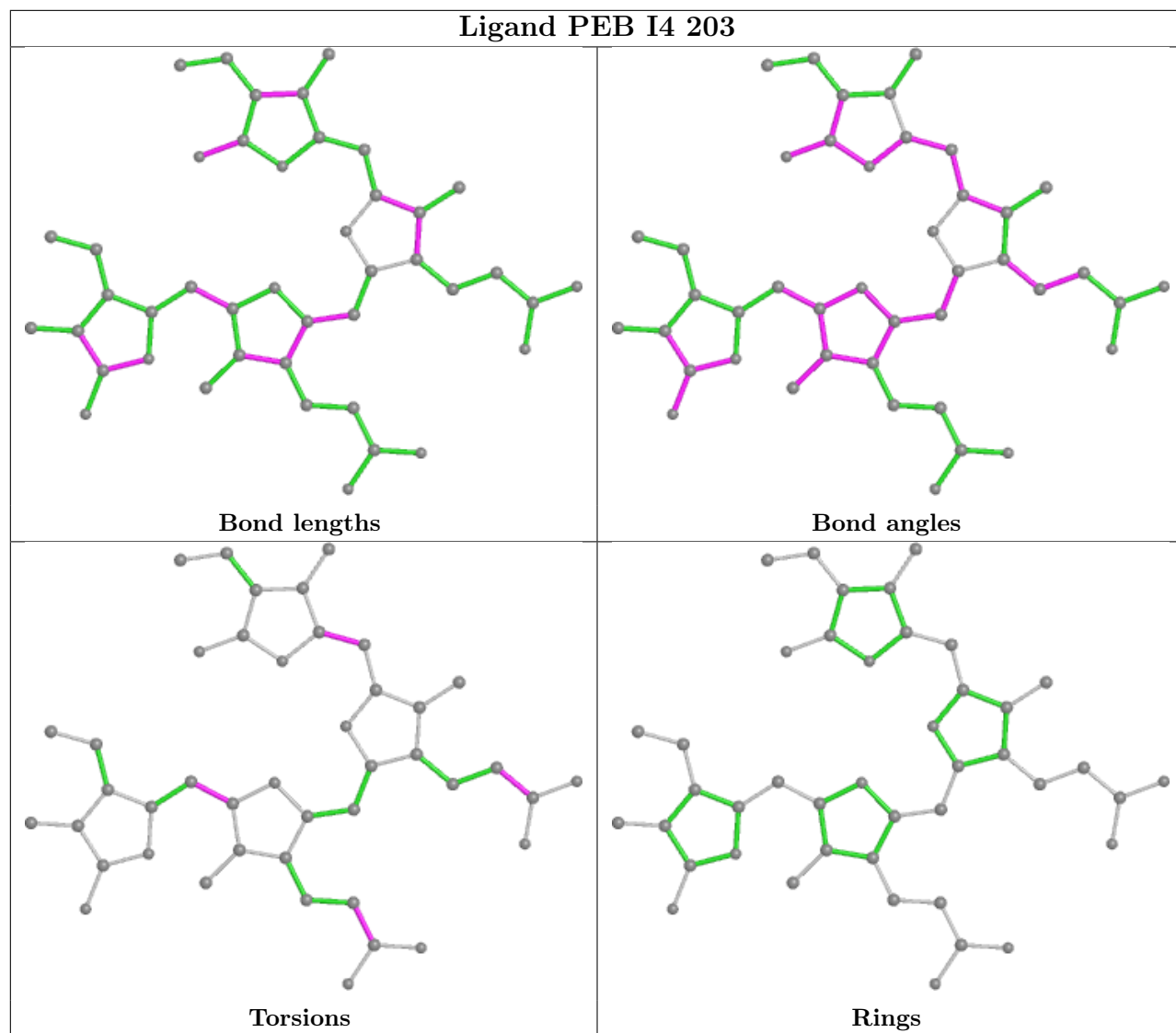
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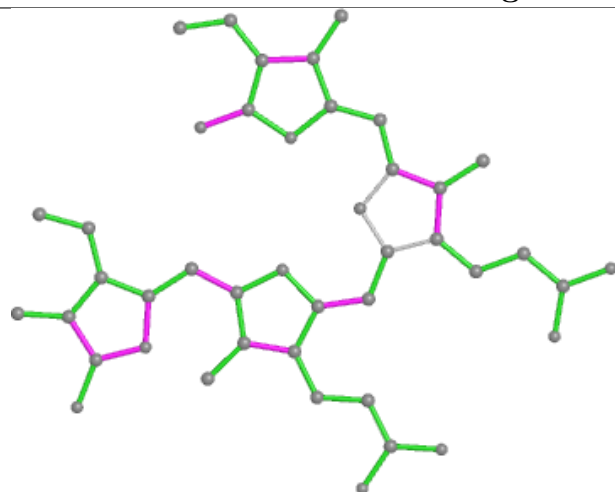
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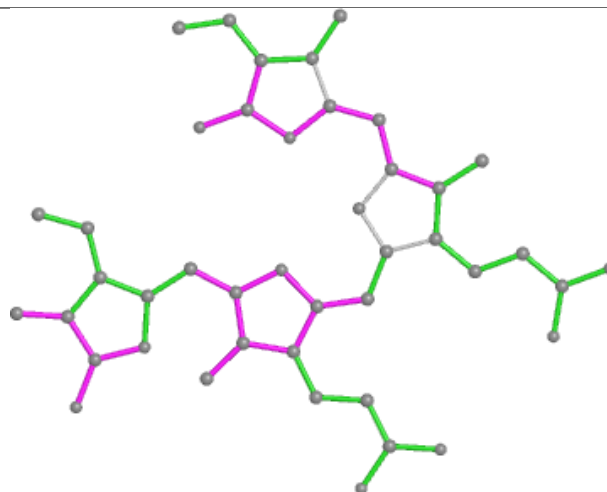
Rings



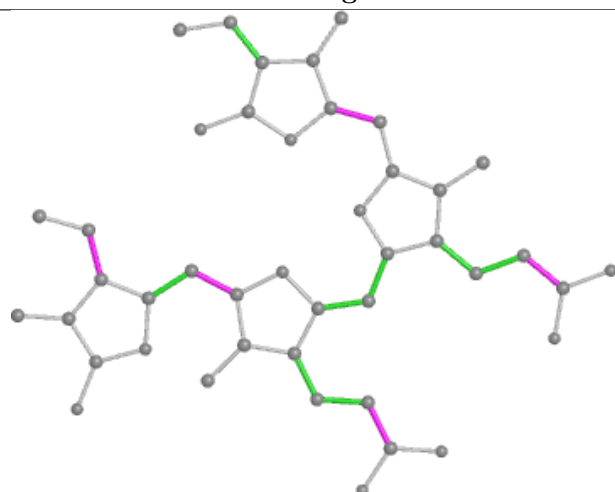
Ligand PEB KN 201



Bond lengths



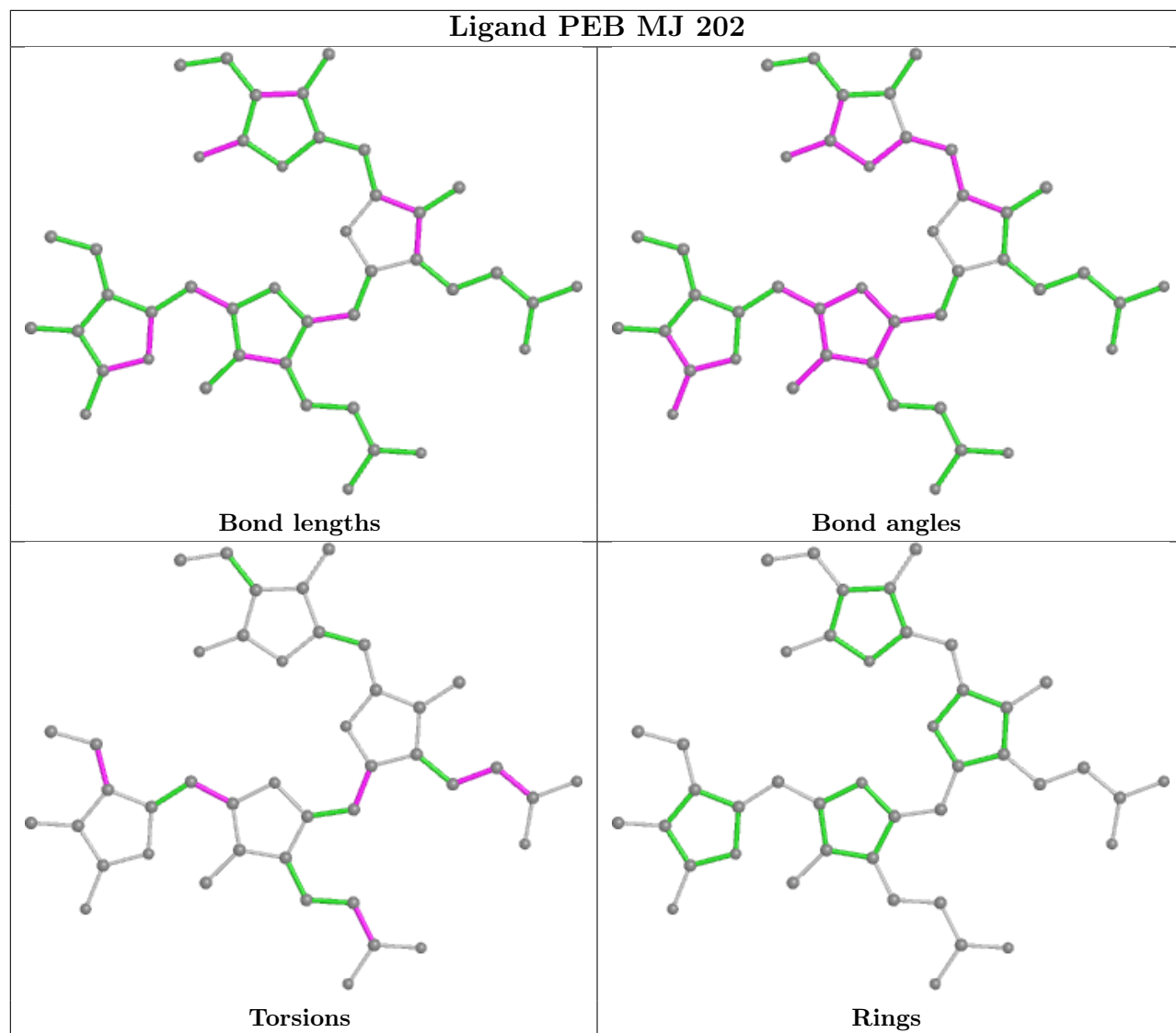
Bond angles

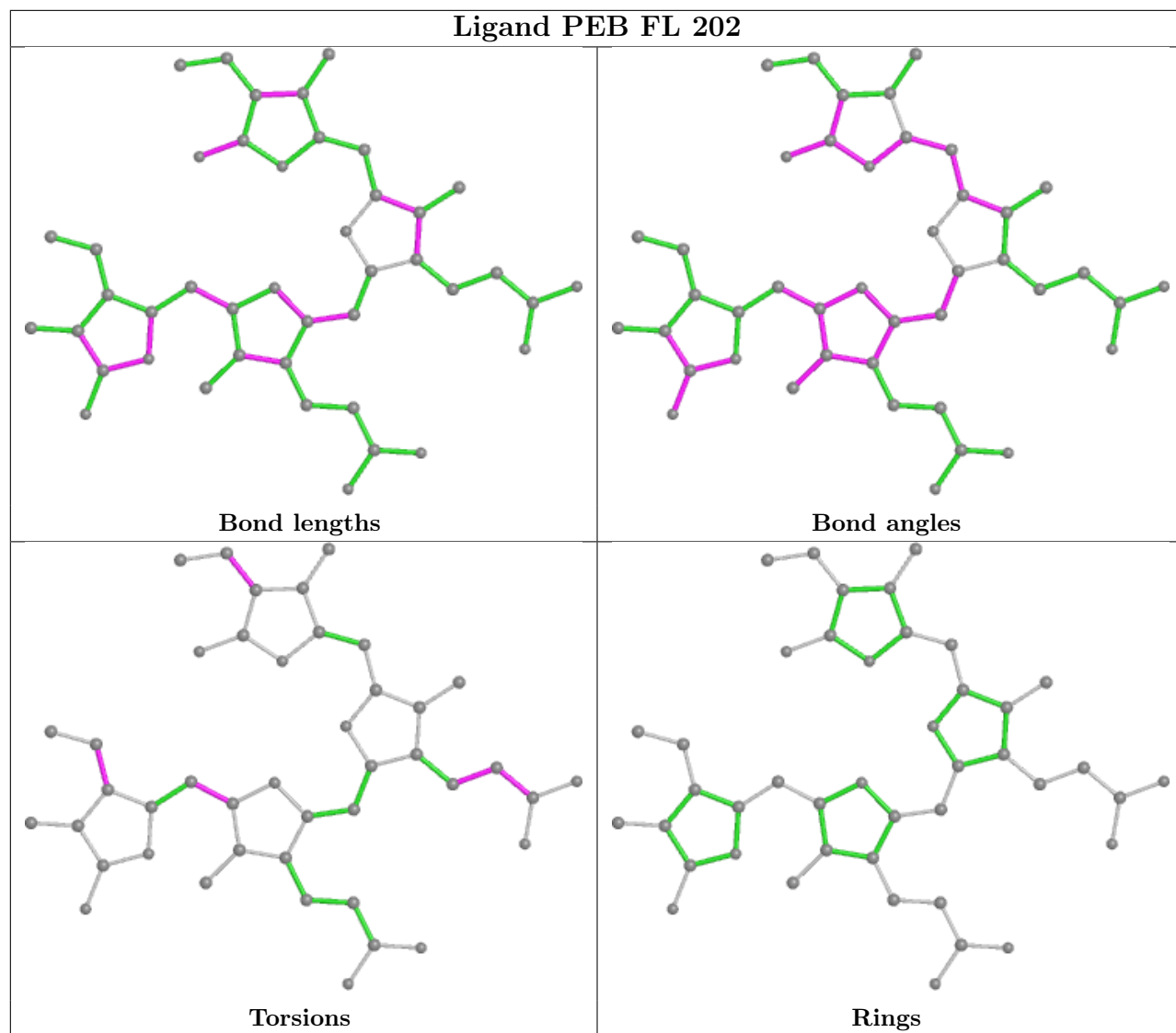


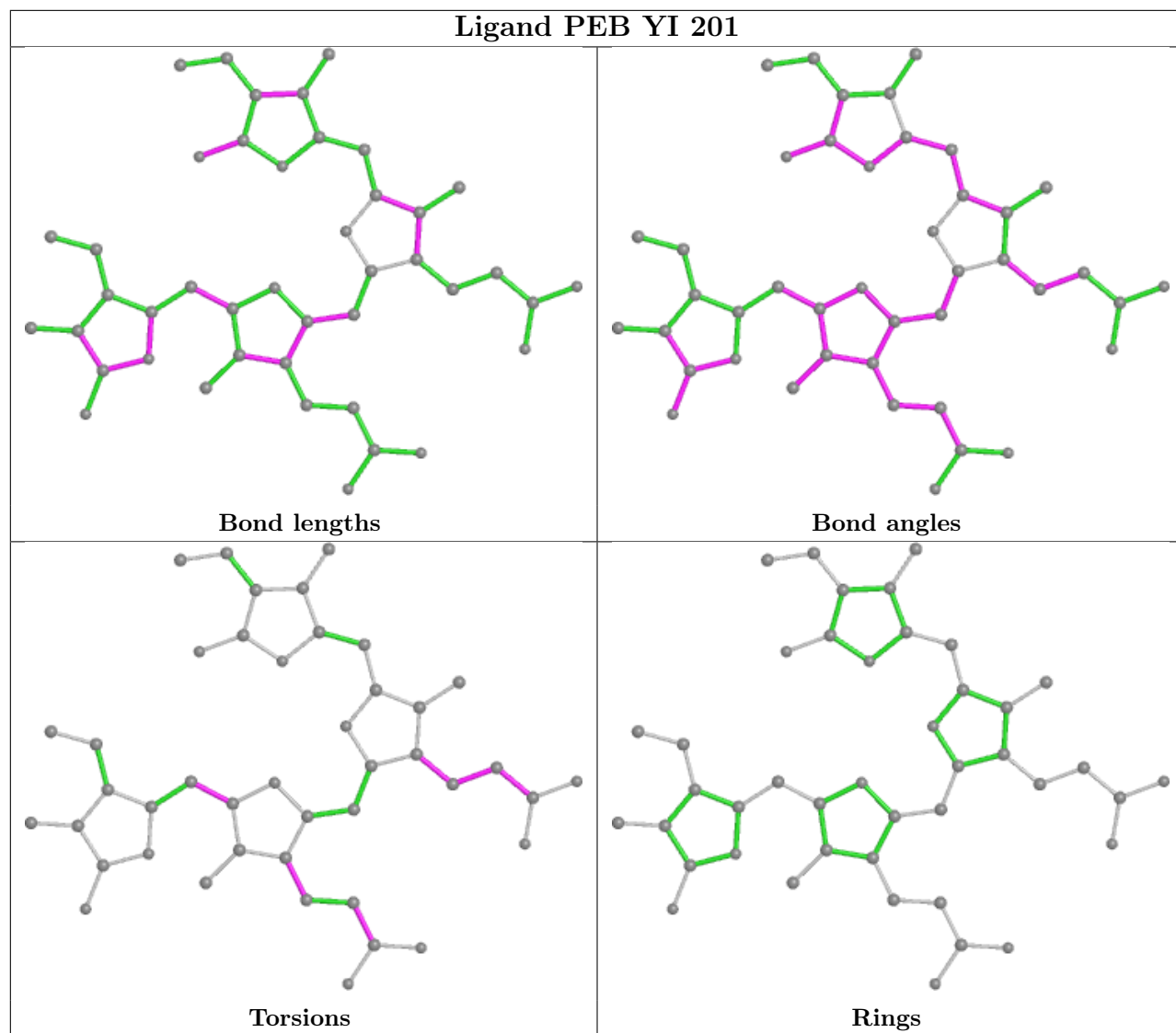
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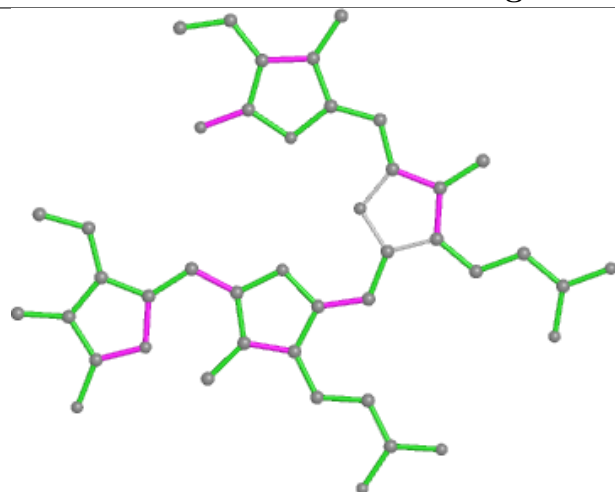
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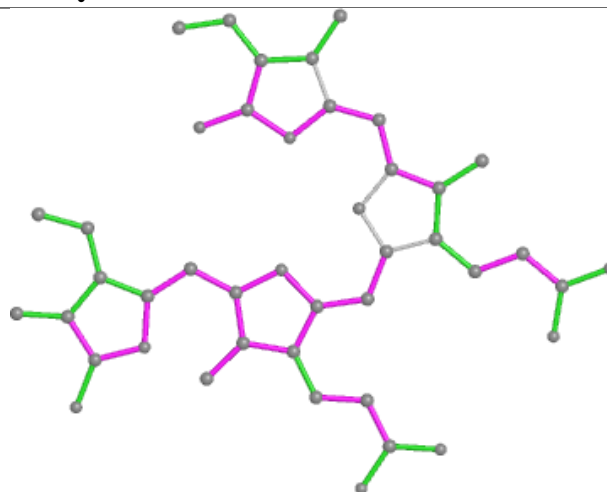




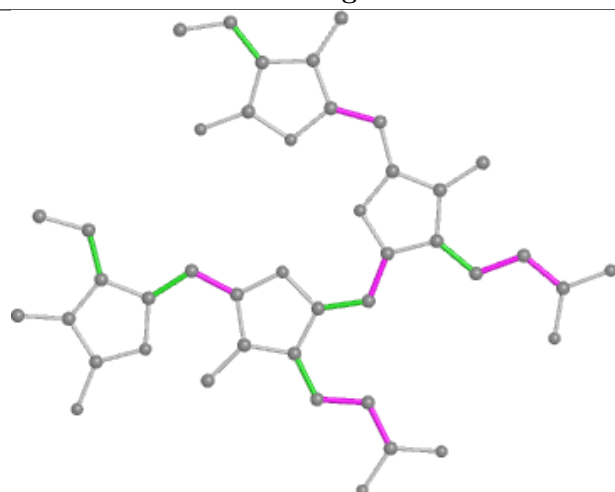
Ligand PEB FQ 203



Bond lengths



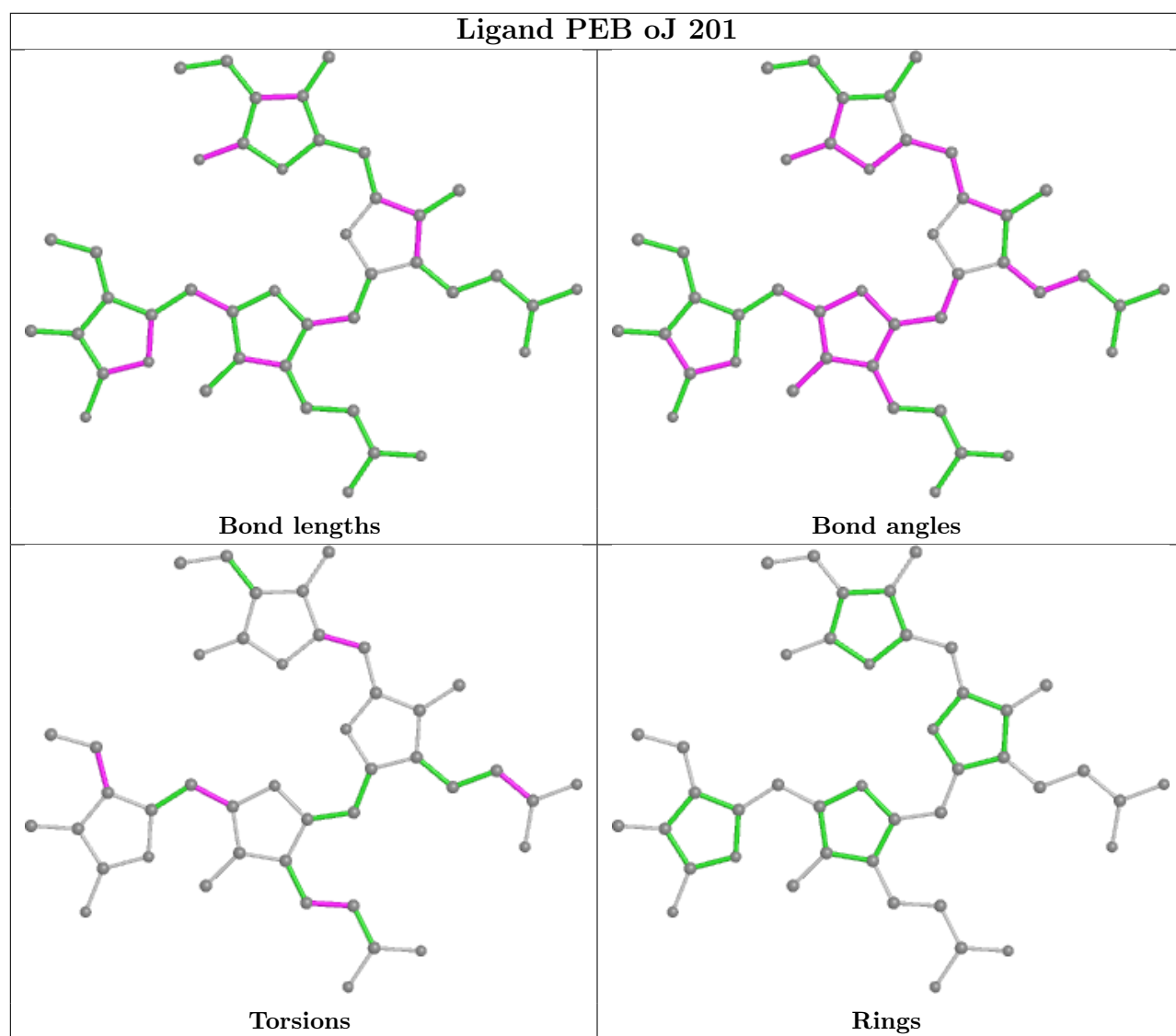
Bond angles



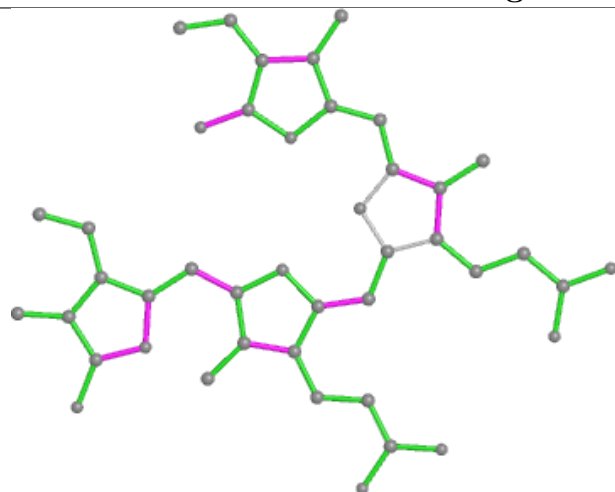
Torsions



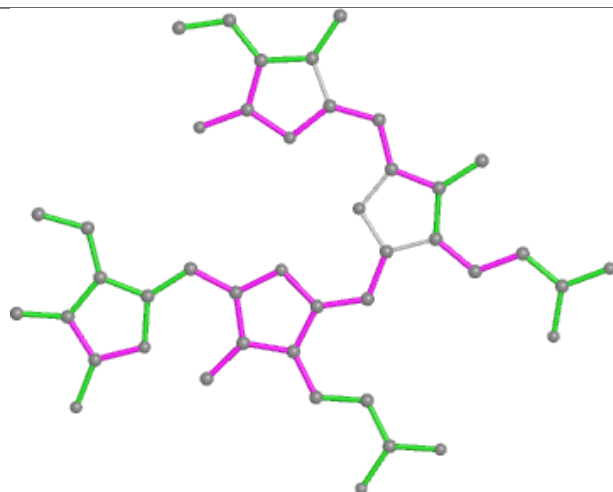
Rings



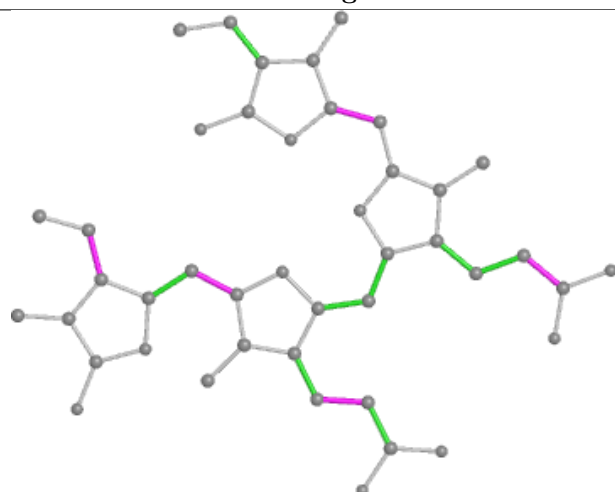
Ligand PEB CL 201



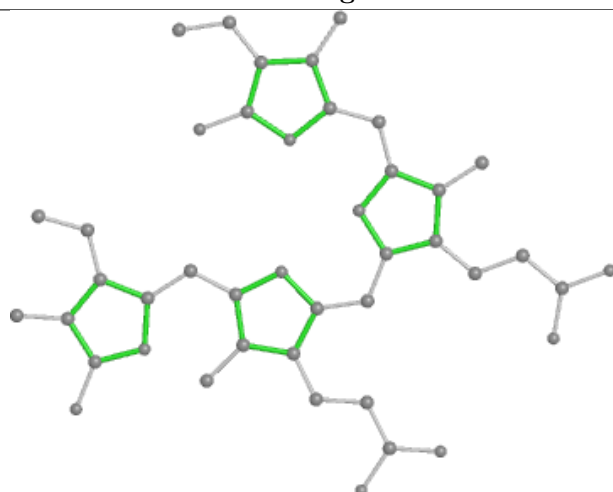
Bond lengths



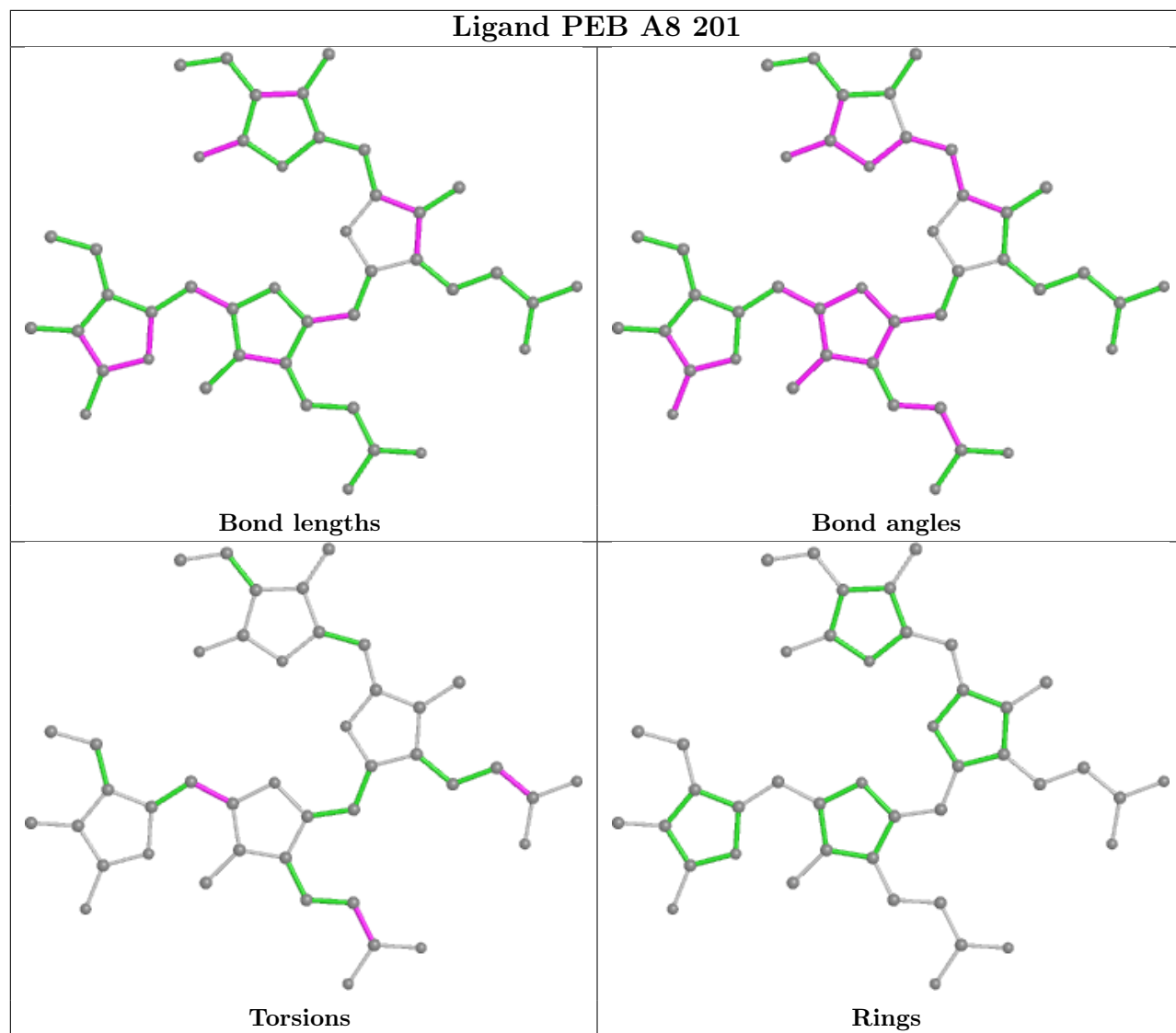
Bond angles

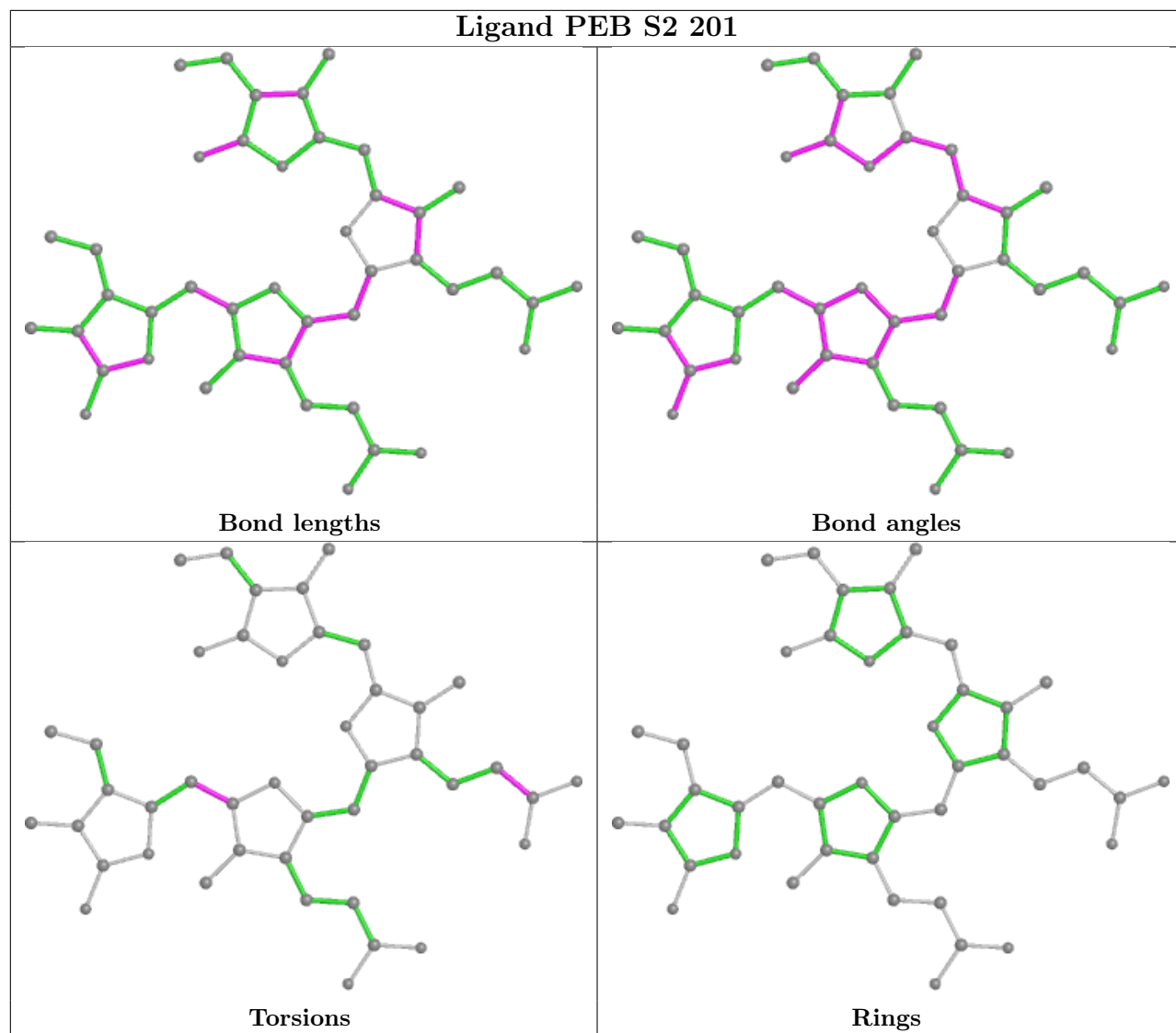


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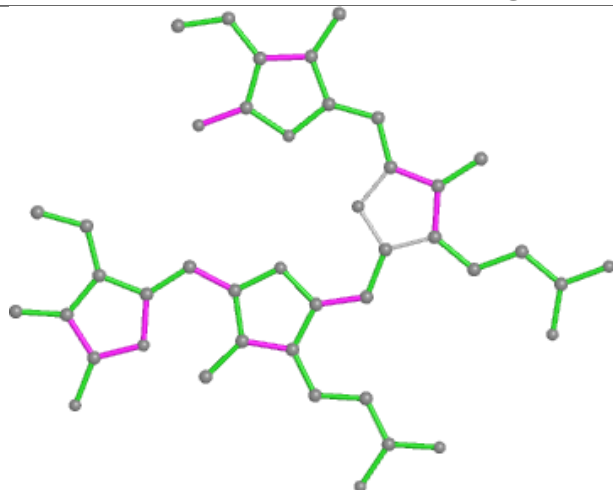


Rings

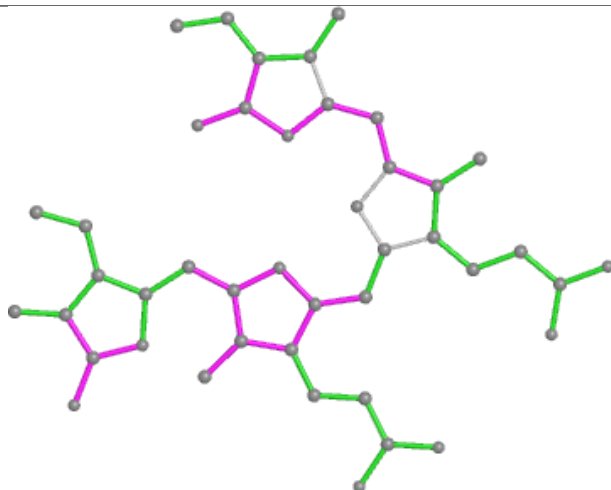




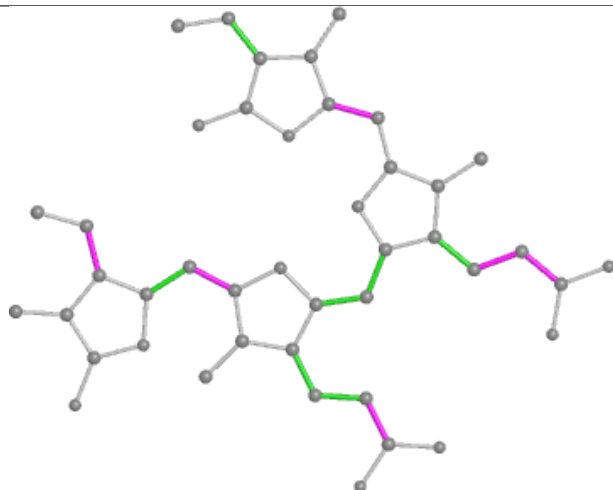
Ligand PEB G8 202



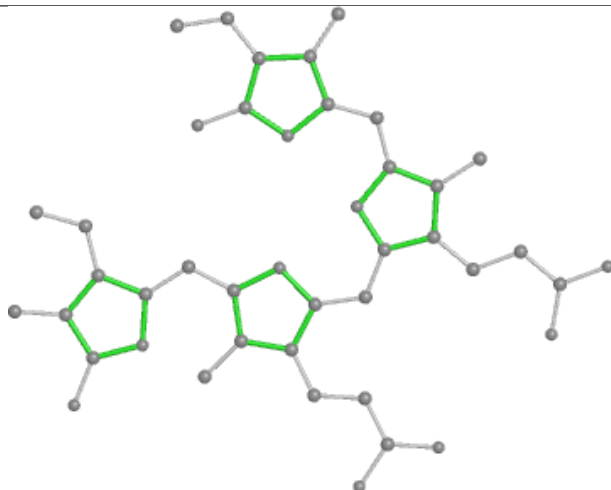
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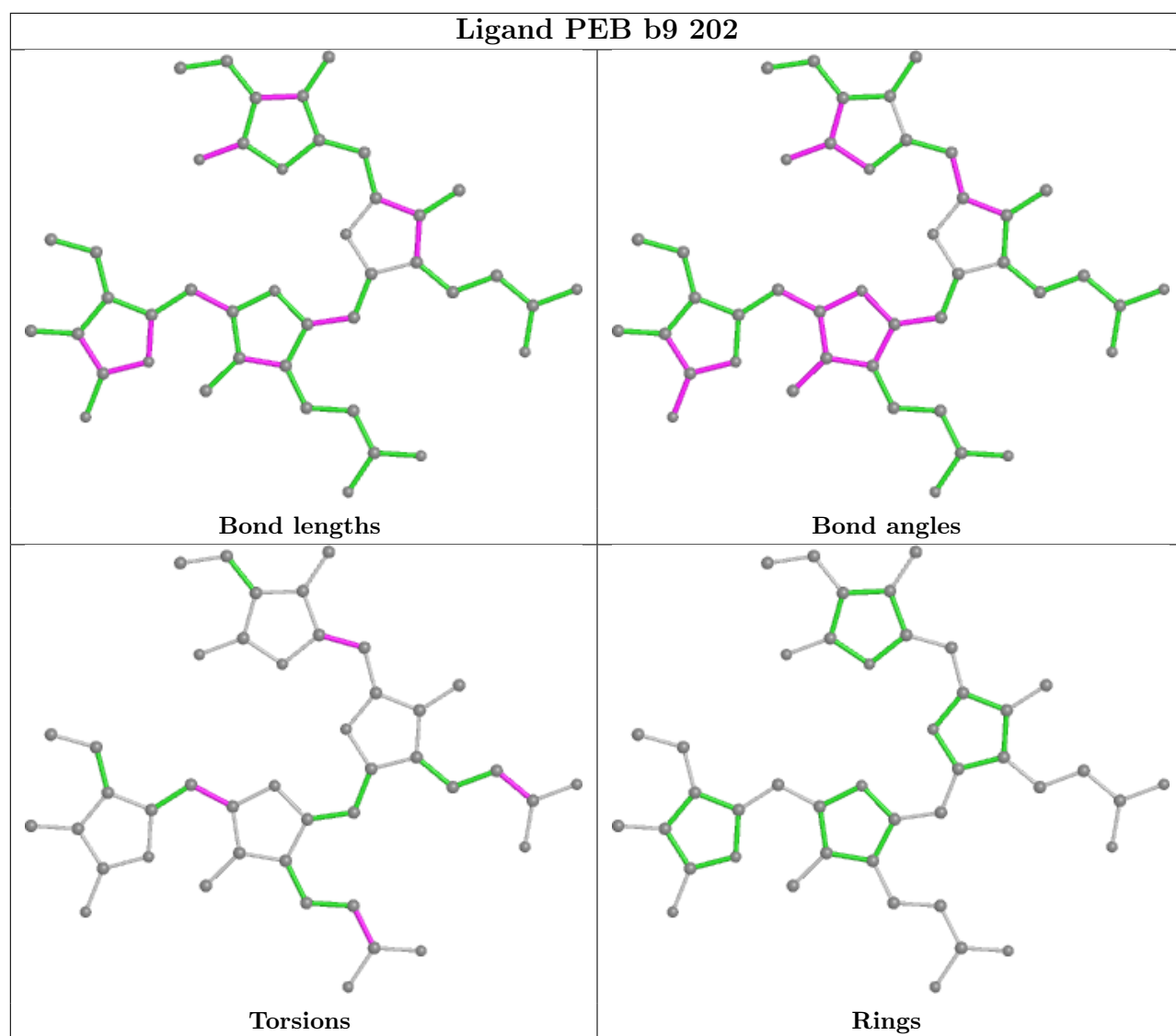
Bond angles

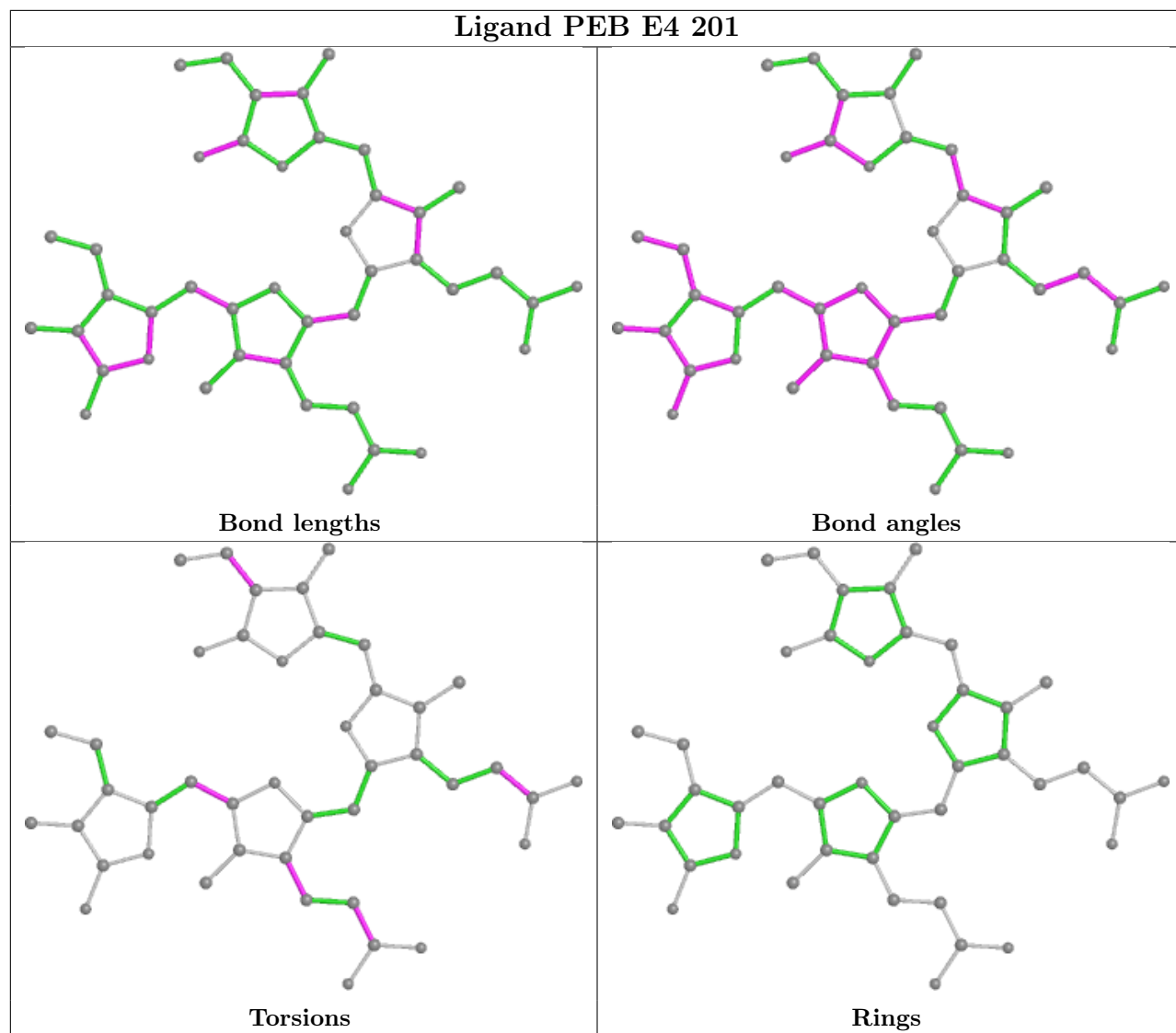


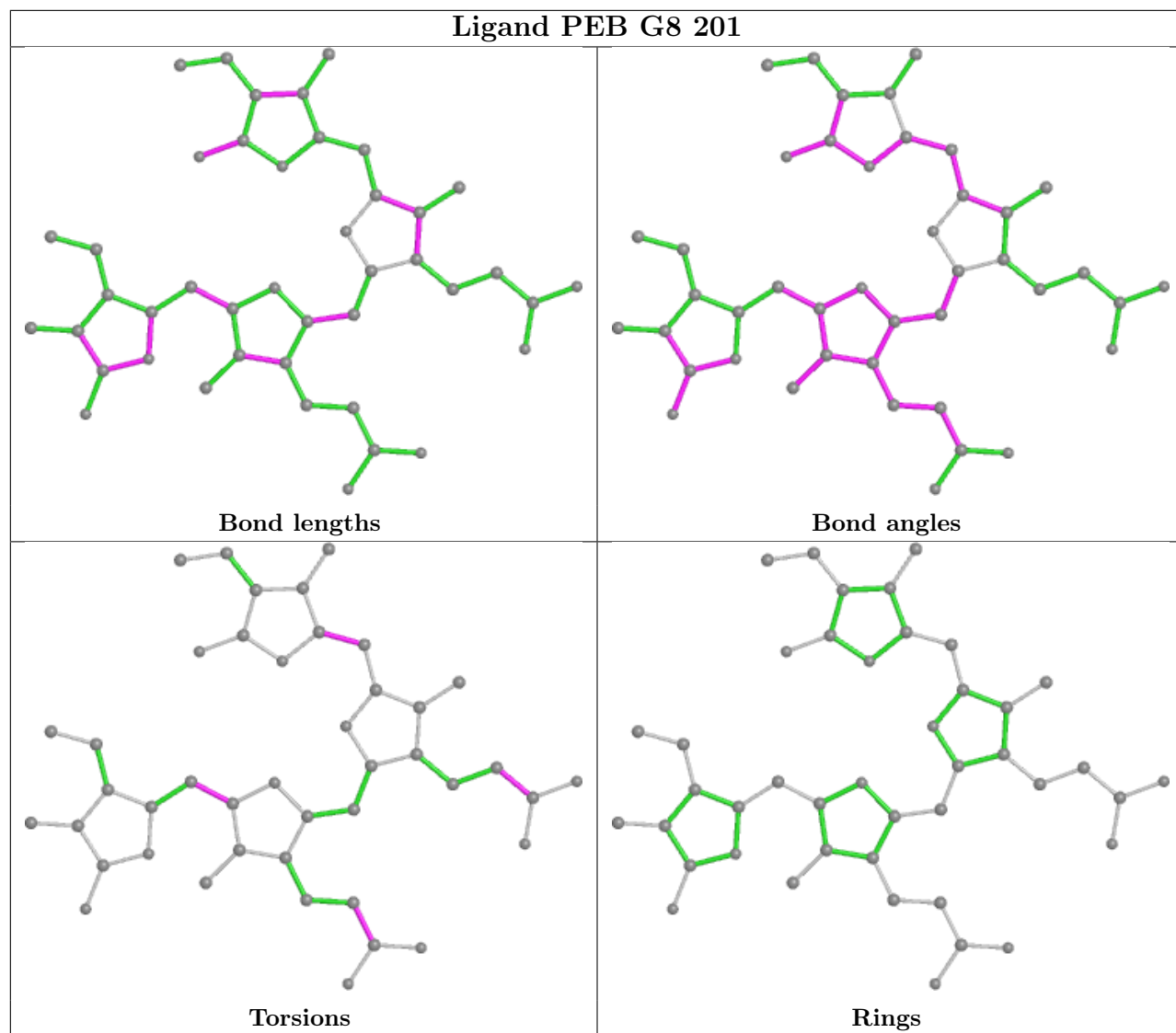
Torsions



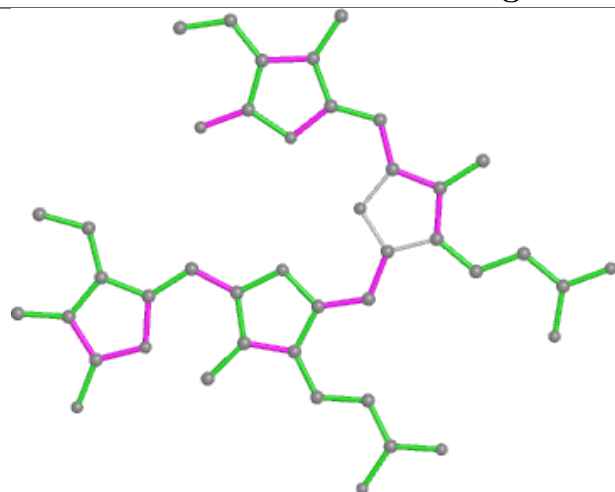
Rings



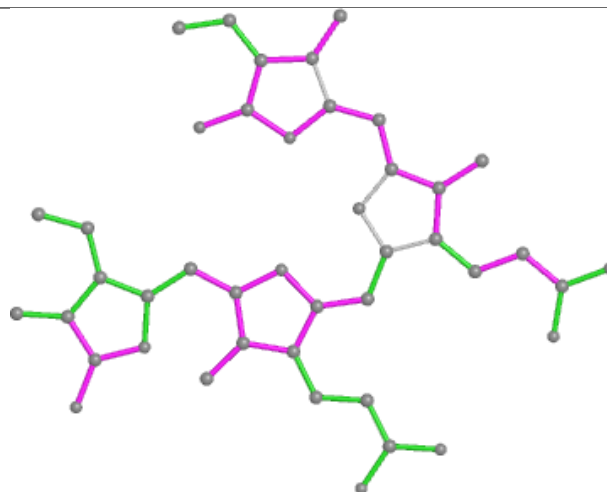




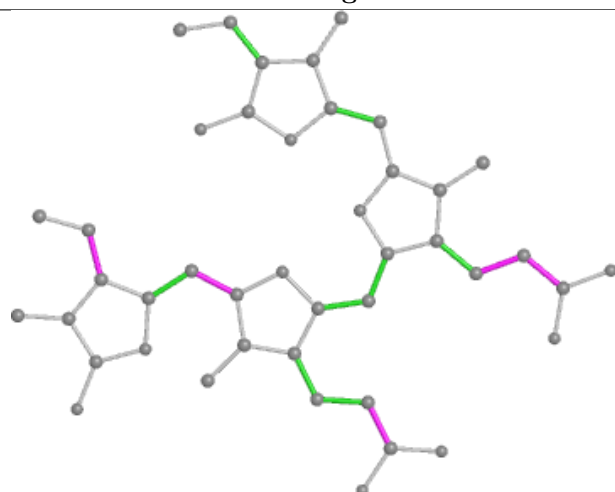
Ligand PEB HO 202



Bond lengths



Bond angles

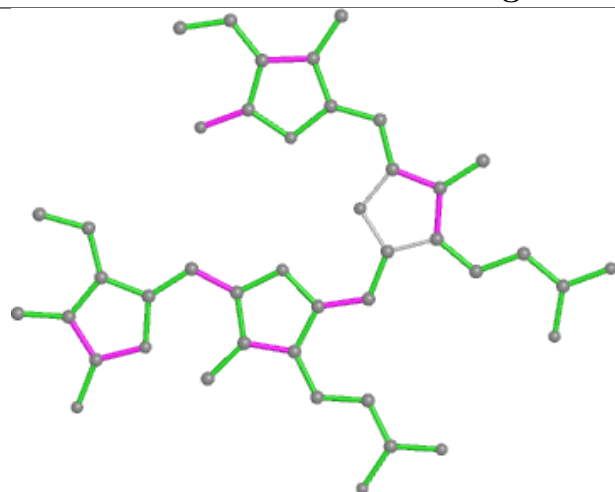


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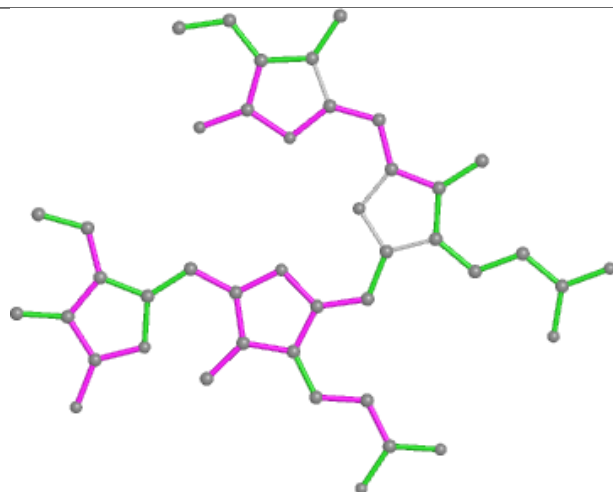


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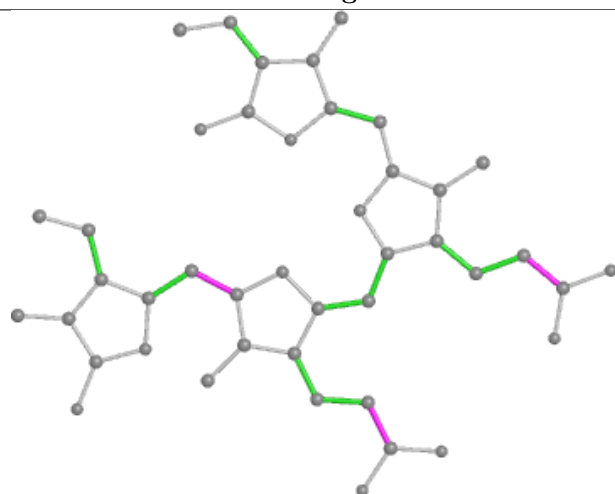
Ligand PEB NO 201



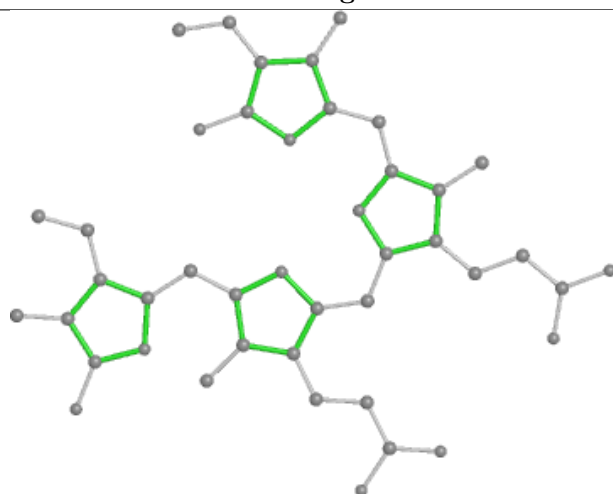
Bond lengths



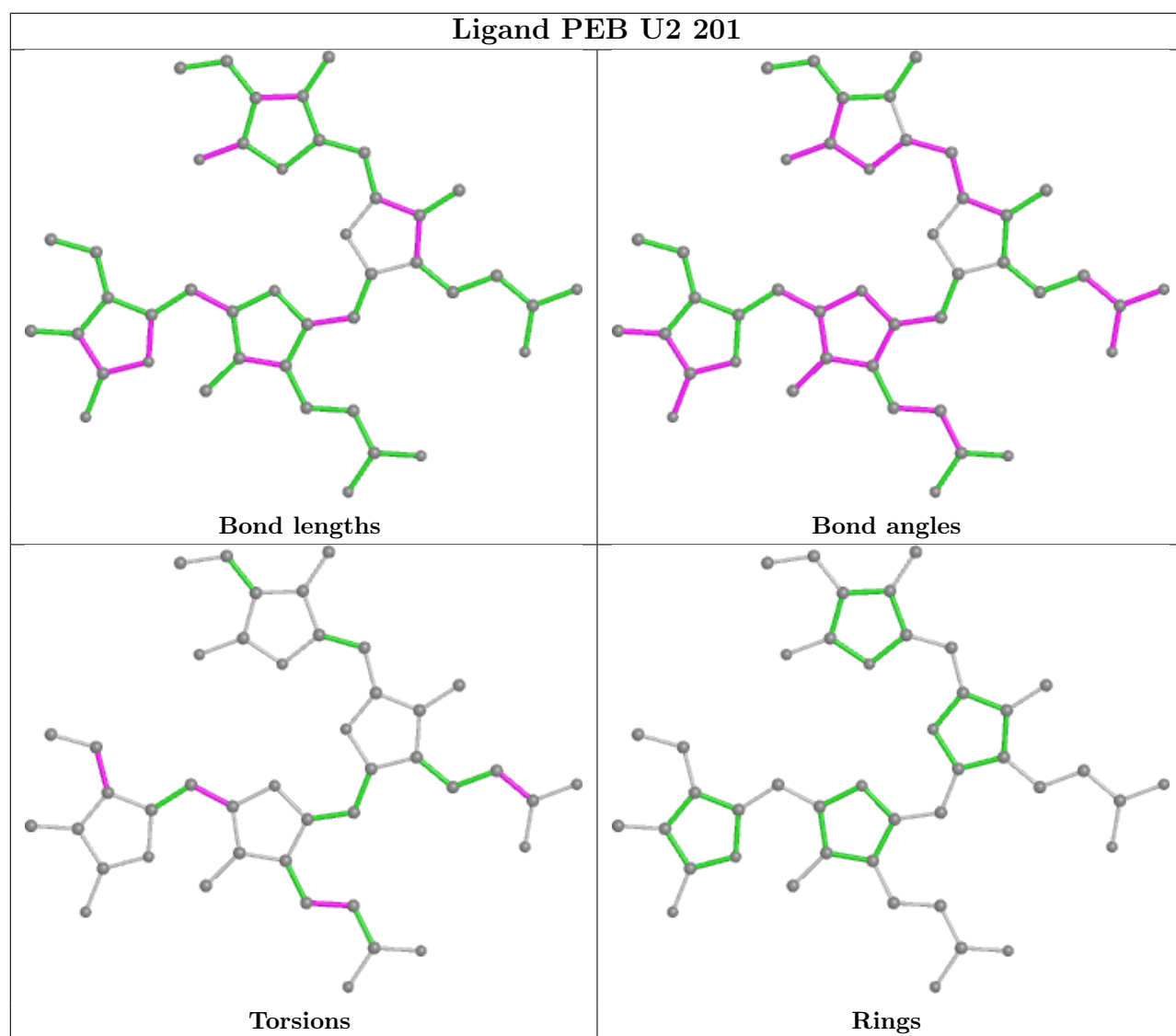
Bond angles

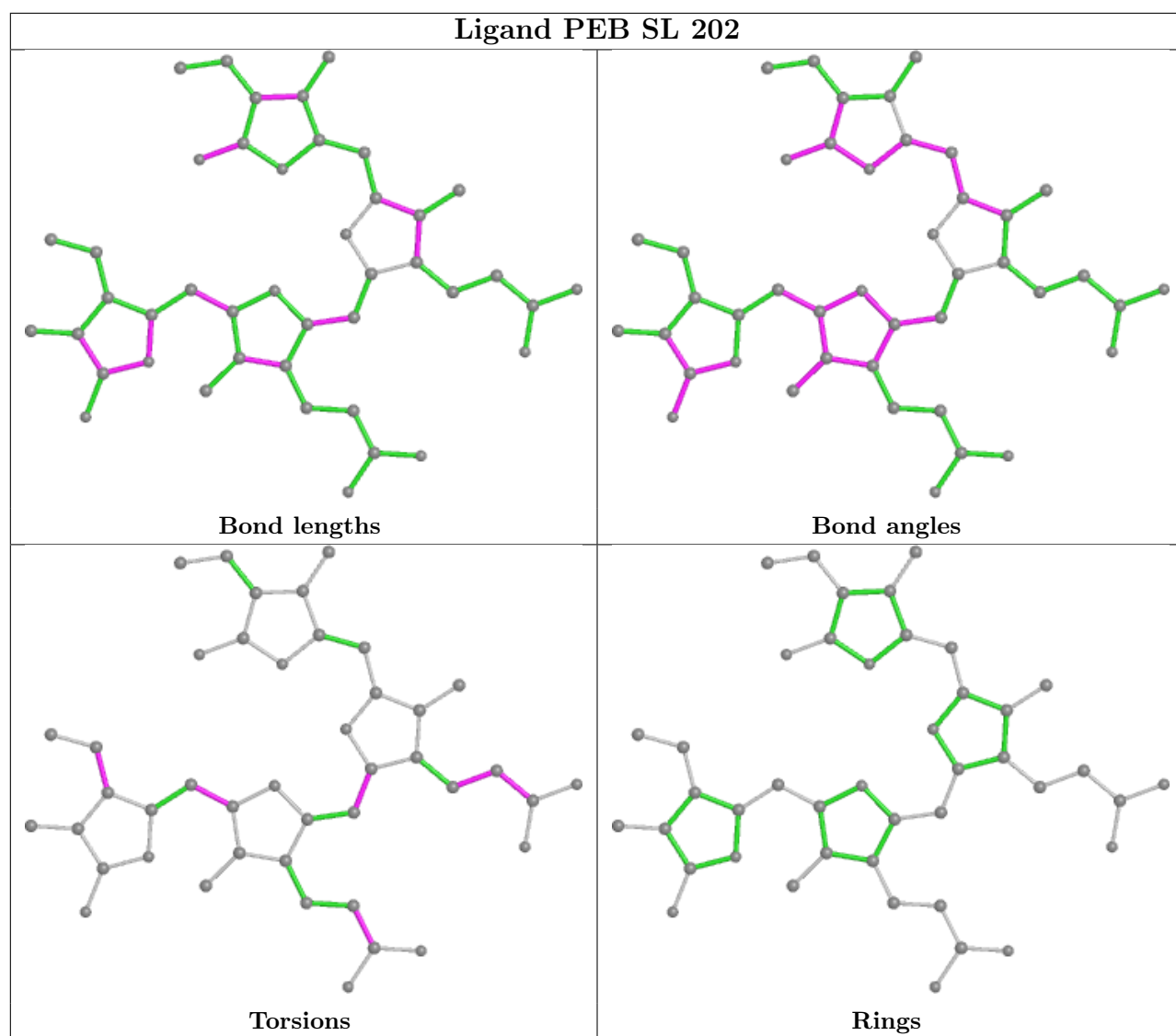


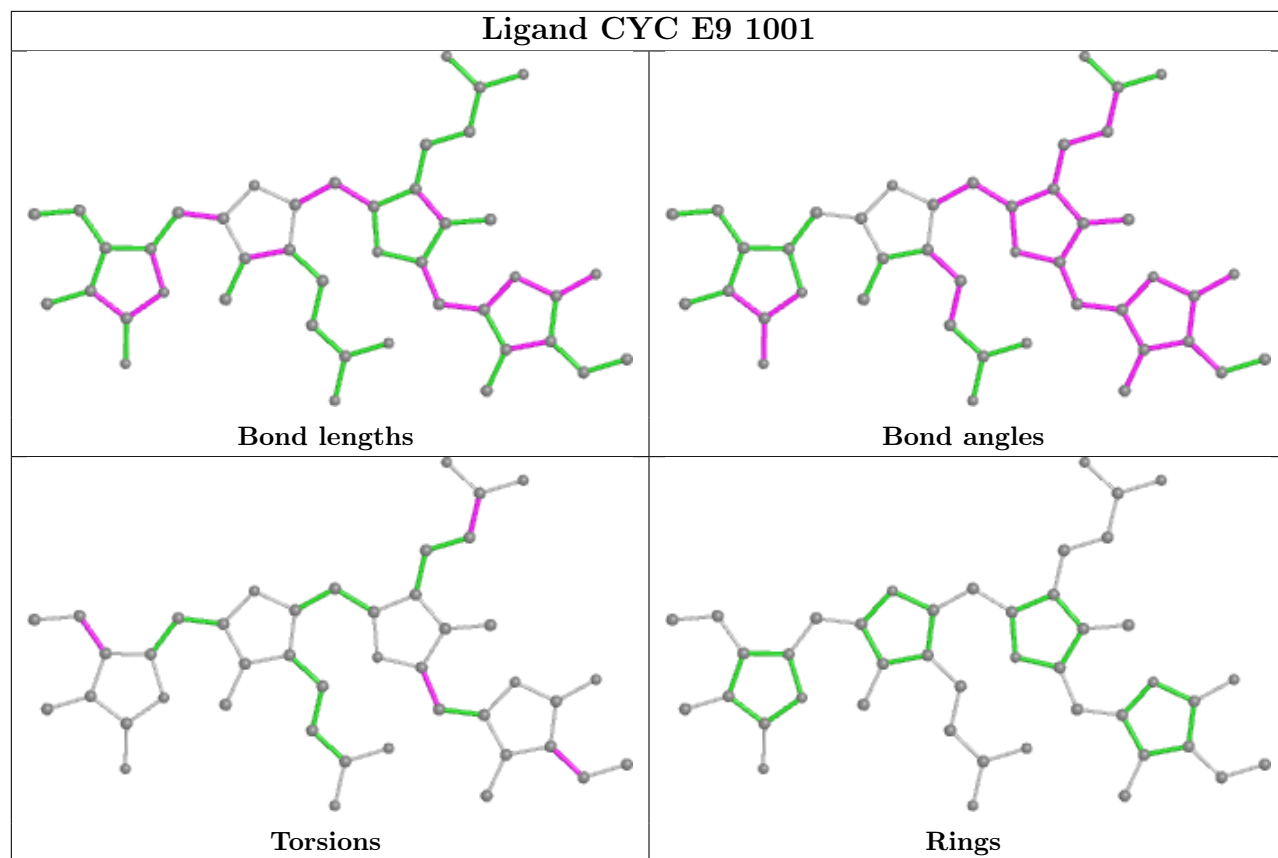
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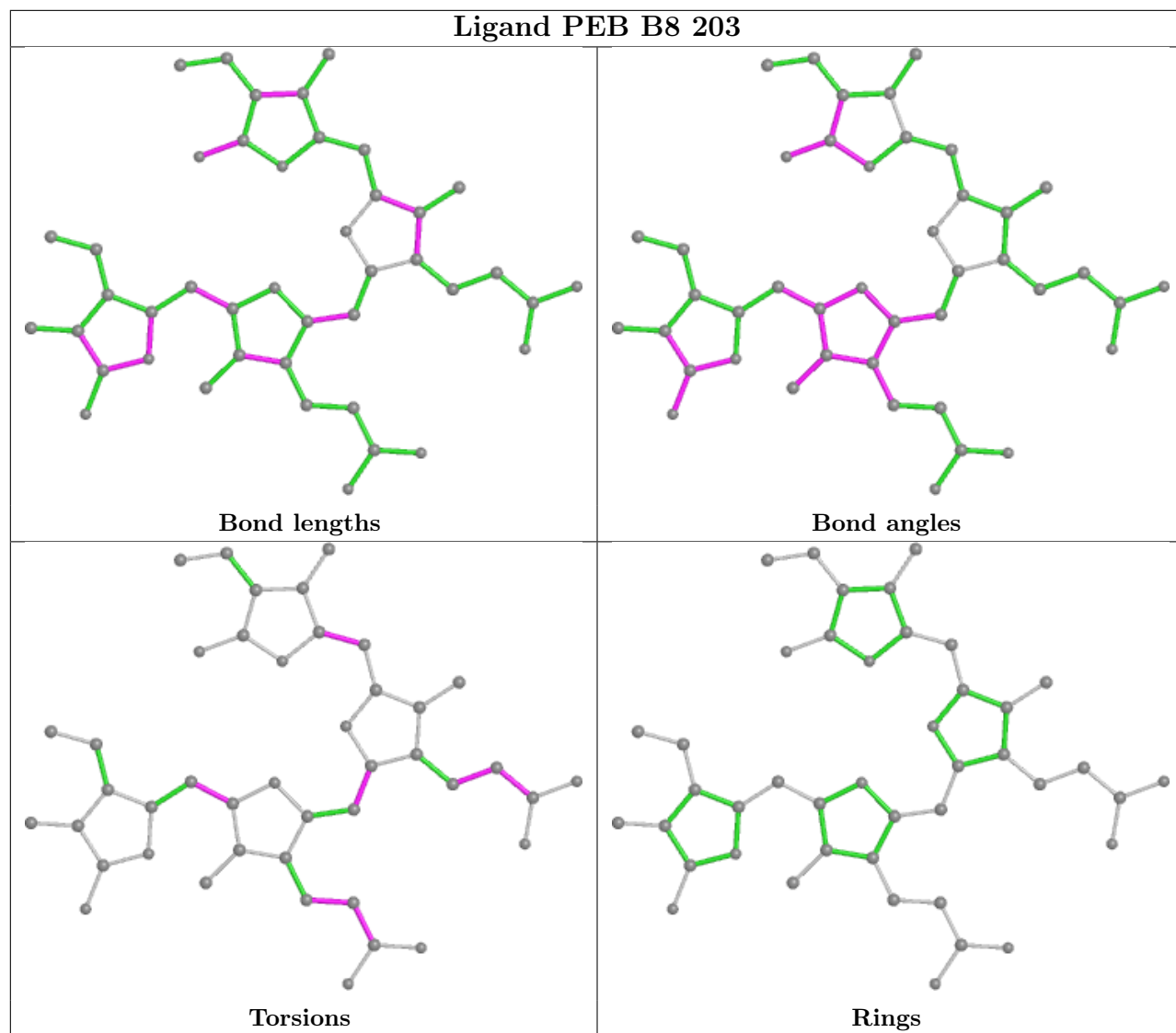


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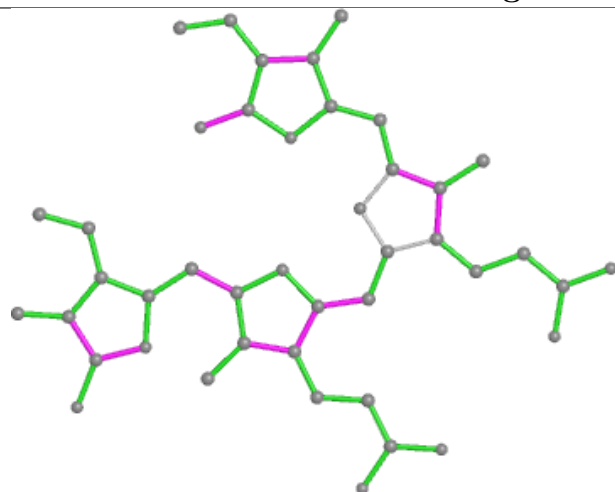




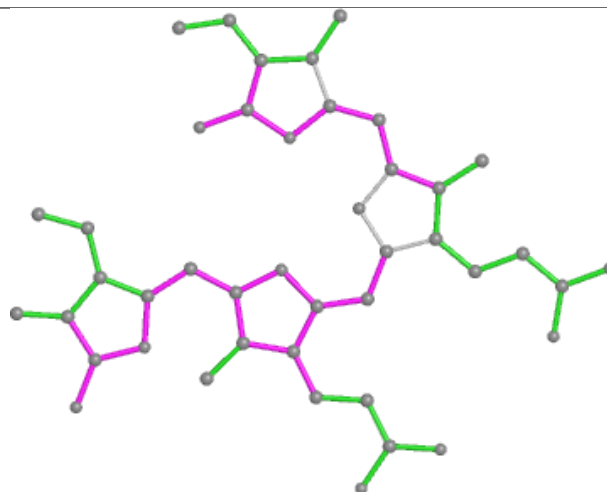




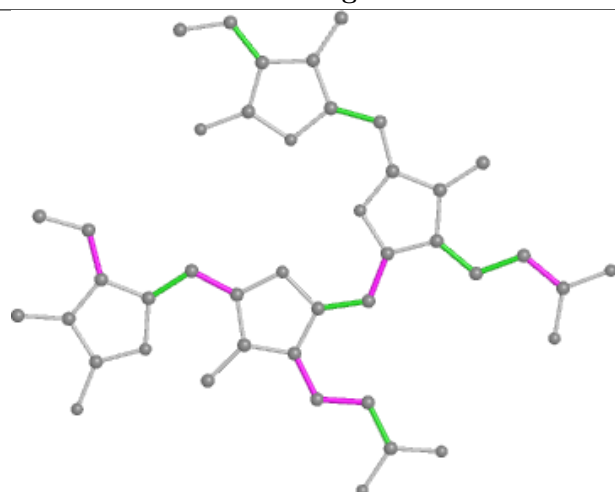
Ligand PEB BN 202



Bond lengths



Bond angles

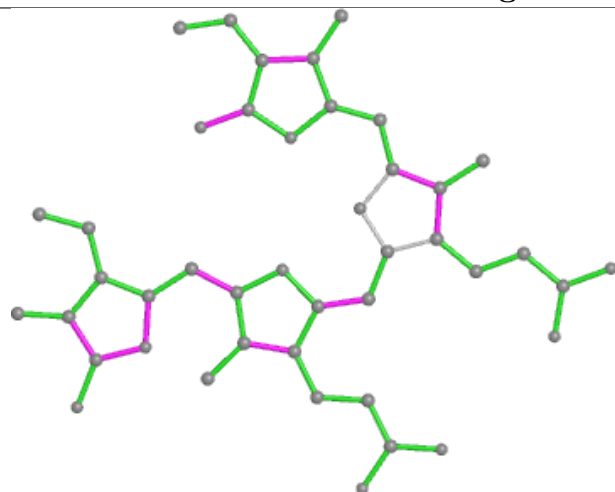


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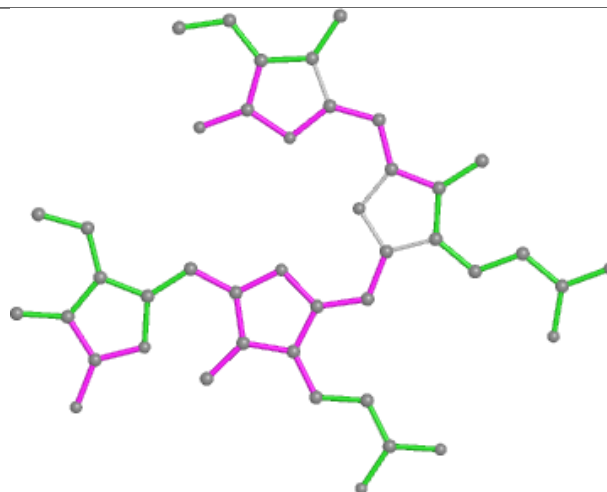


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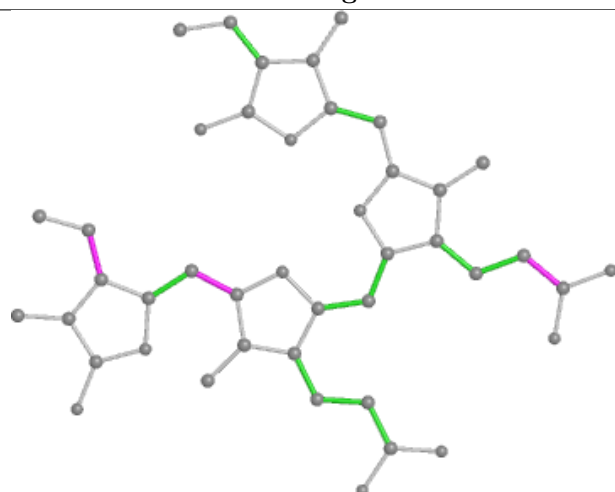
Ligand PEB VM 202



Bond lengths



Bond angles

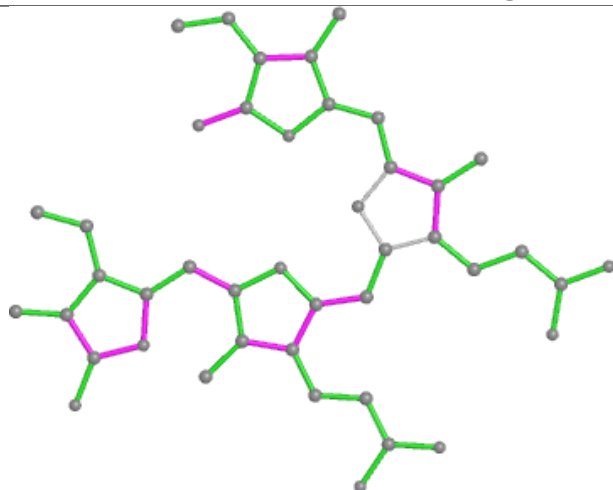


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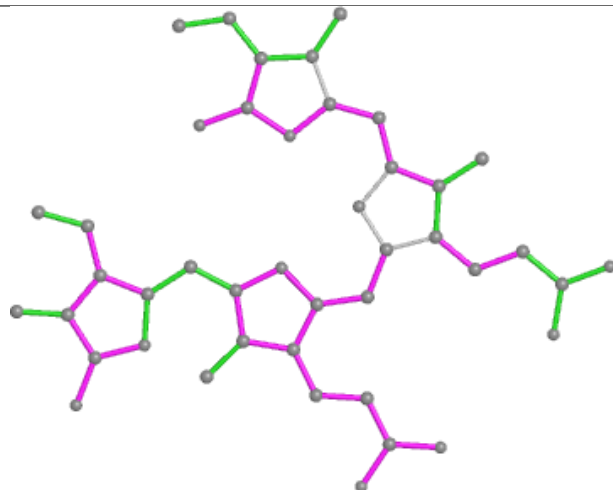


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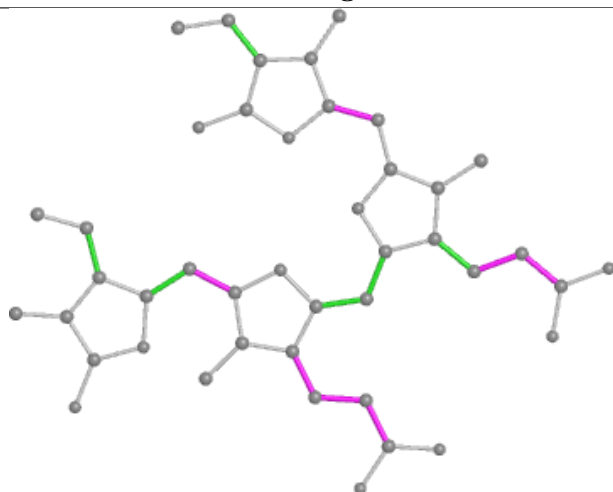
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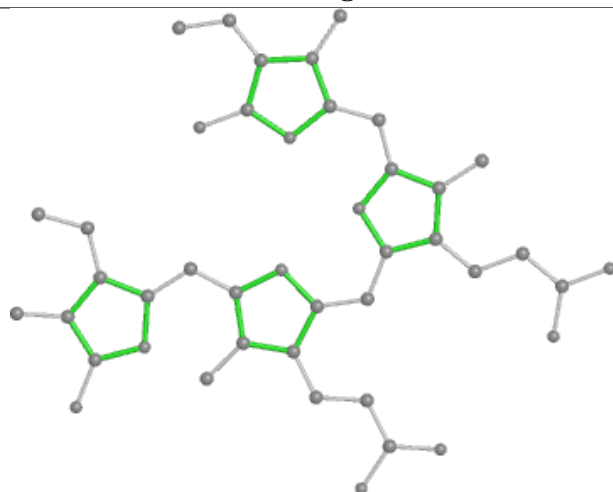
Bond lengths



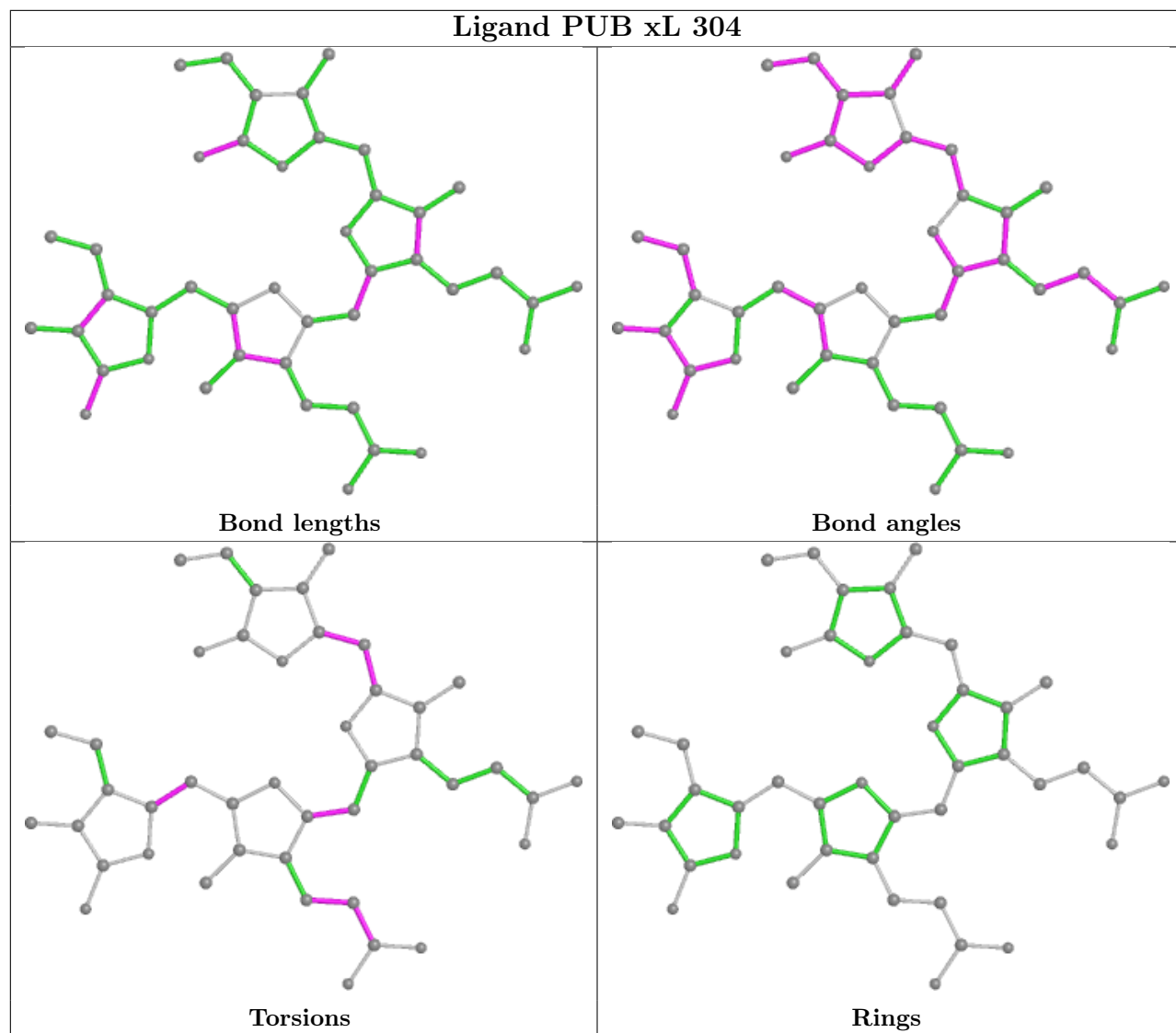
Bond angles



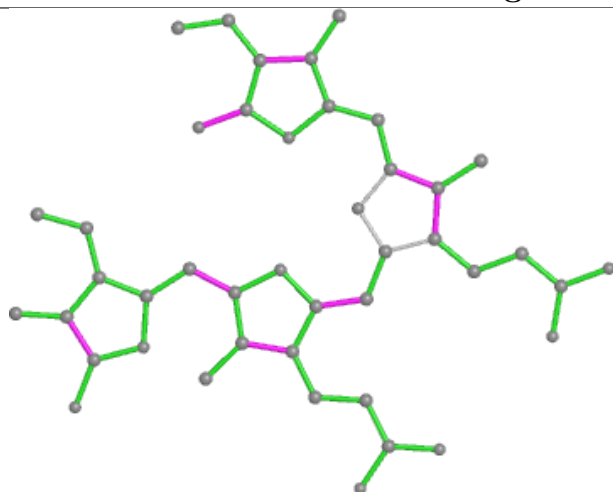
Torsions



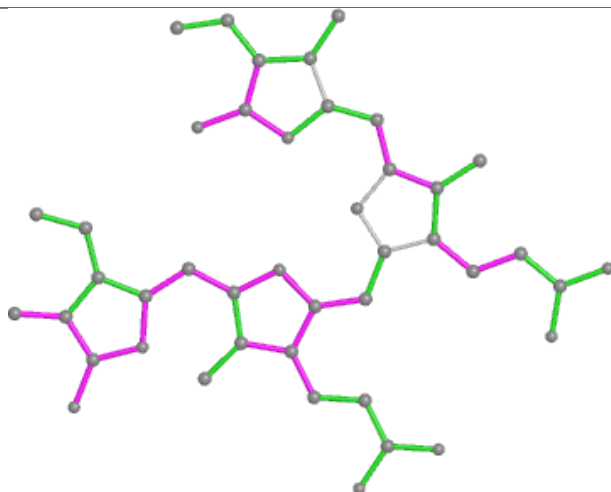
Rings



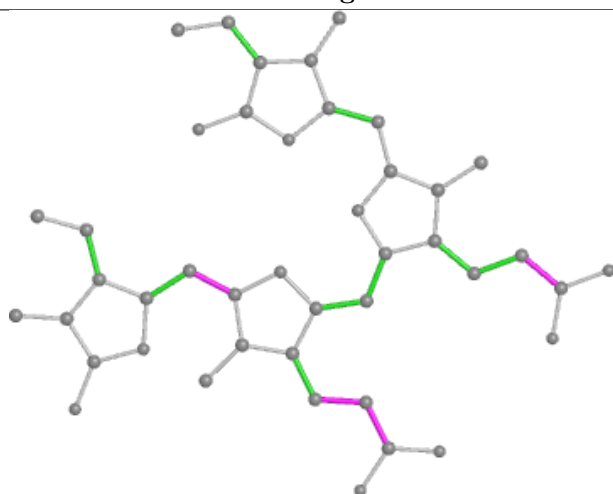
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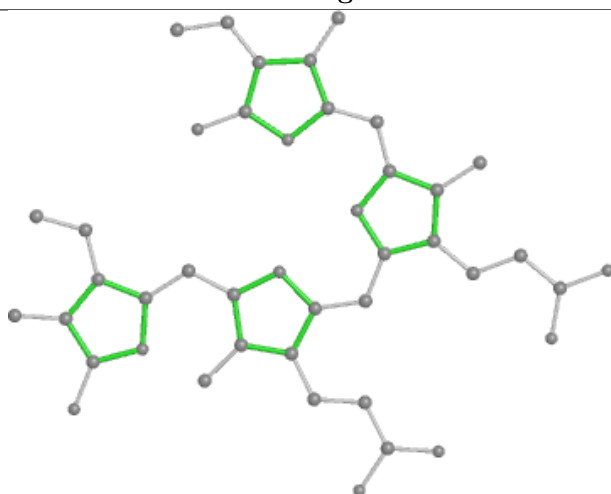
Bond lengths



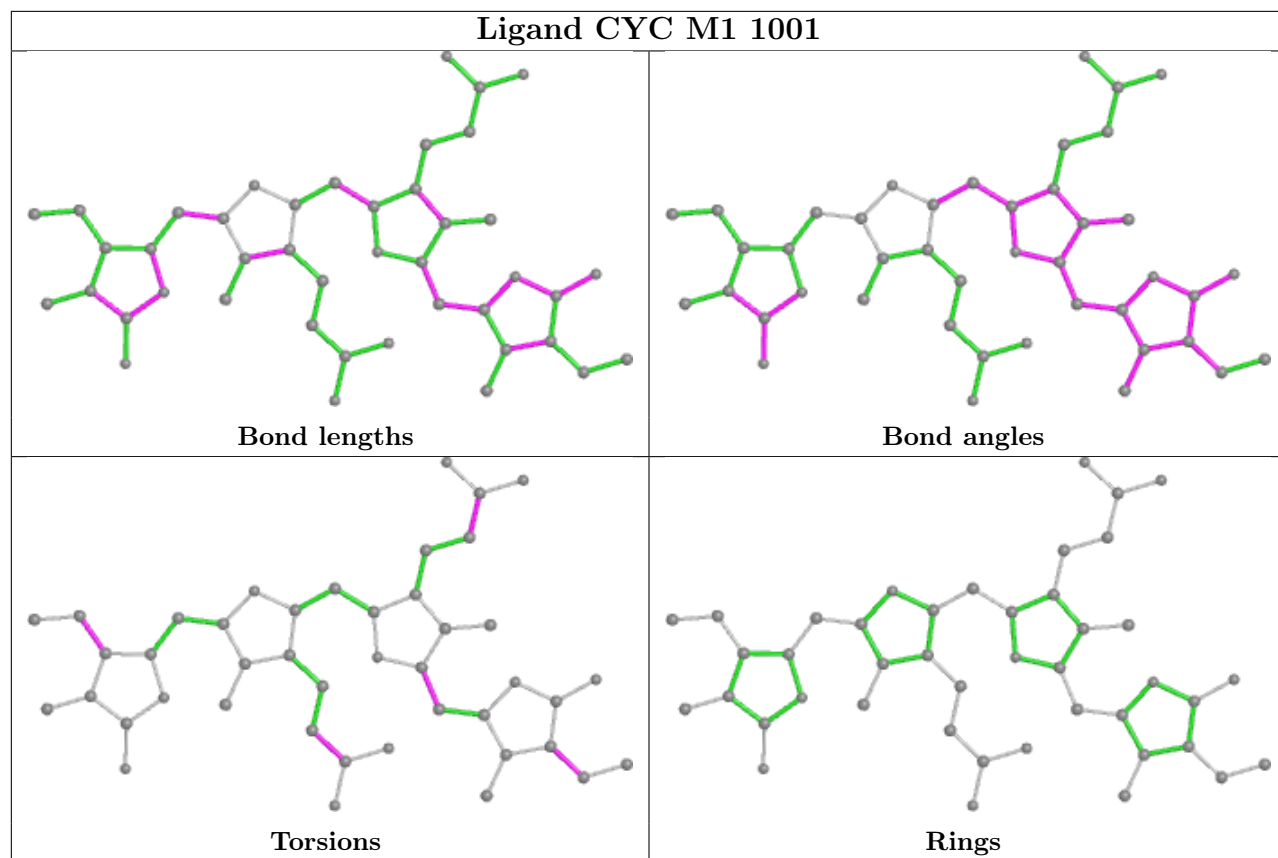
Bond angles



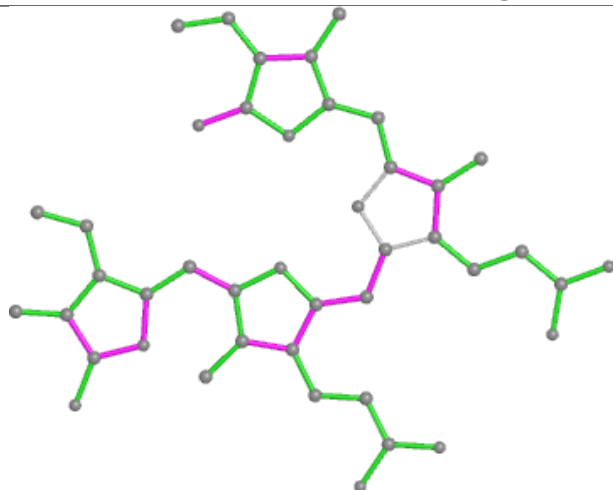
Torsions



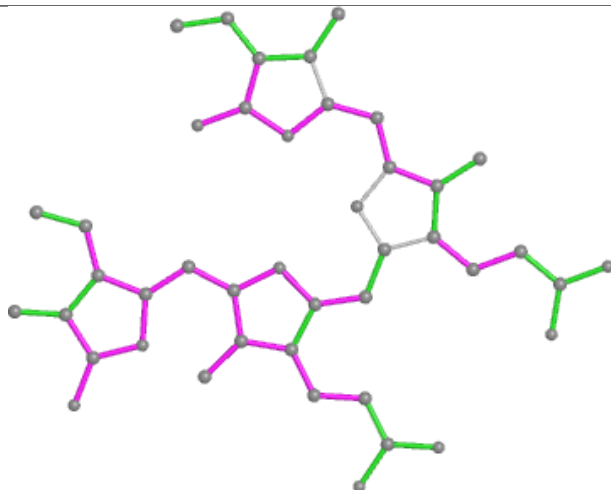
Rings



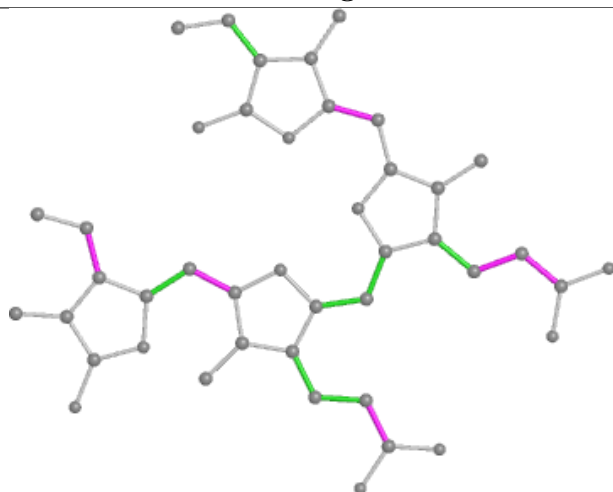
Ligand PEB WR 202



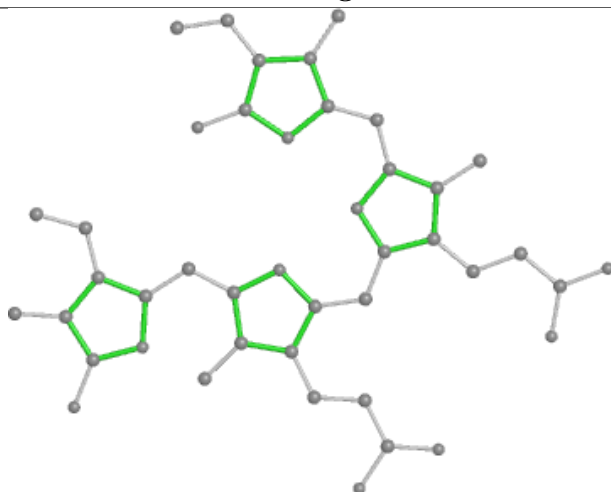
Bond lengths



Bond angles

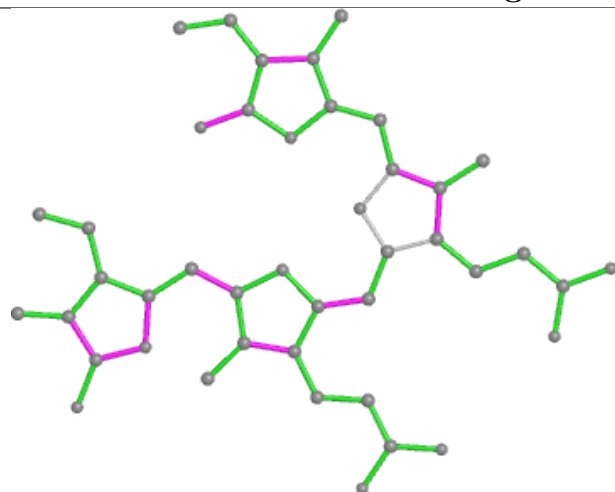


Torsions

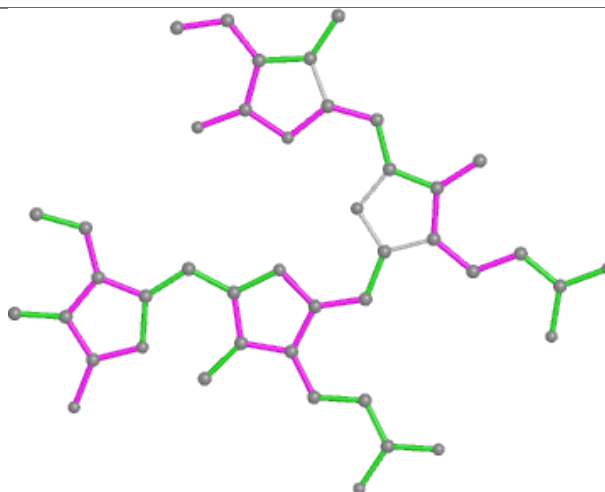


Rings

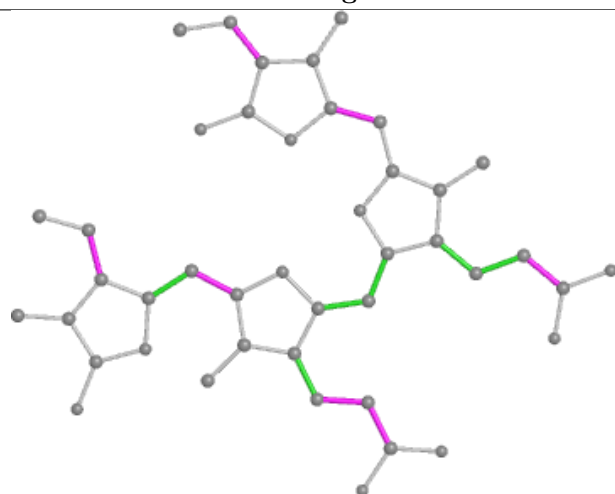
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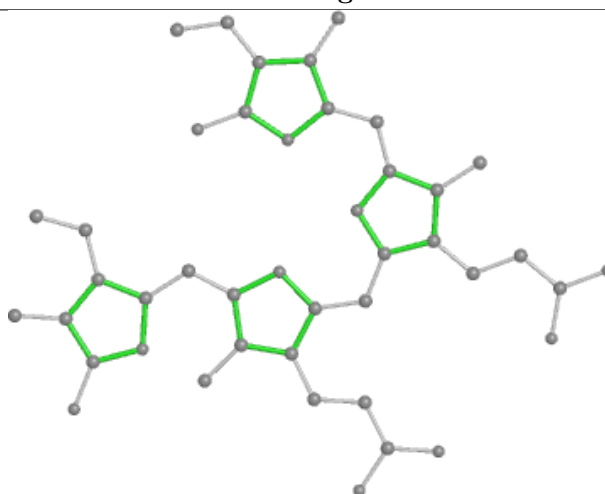
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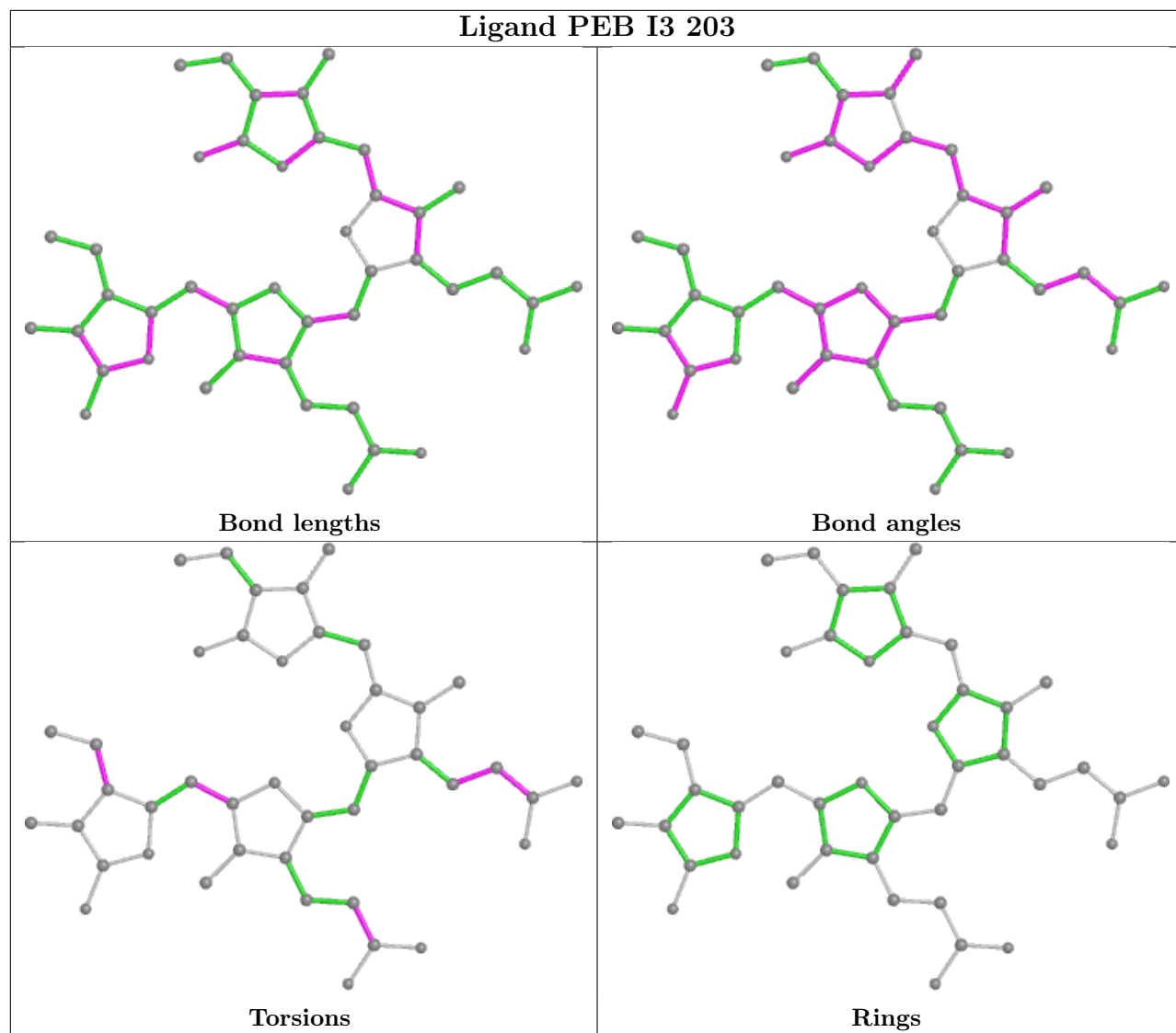
Bond angles



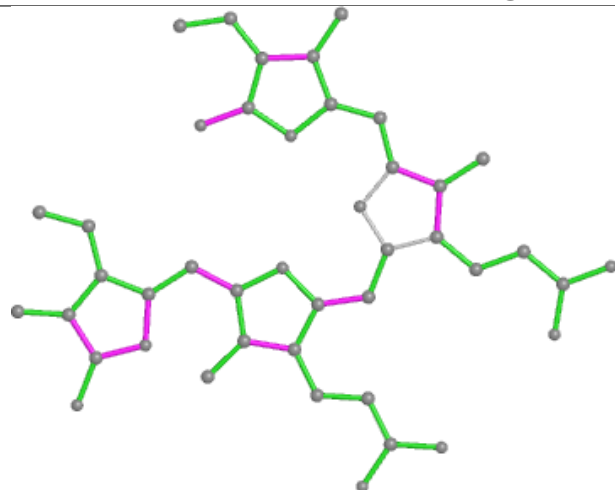
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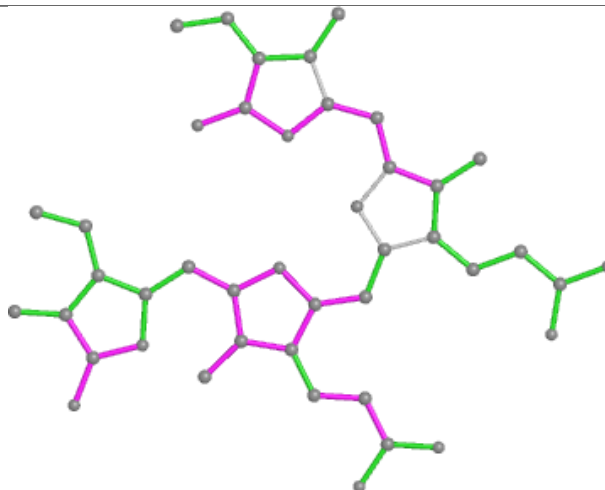
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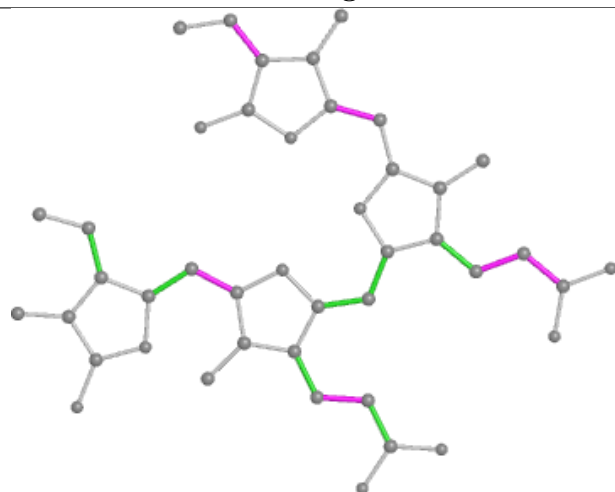
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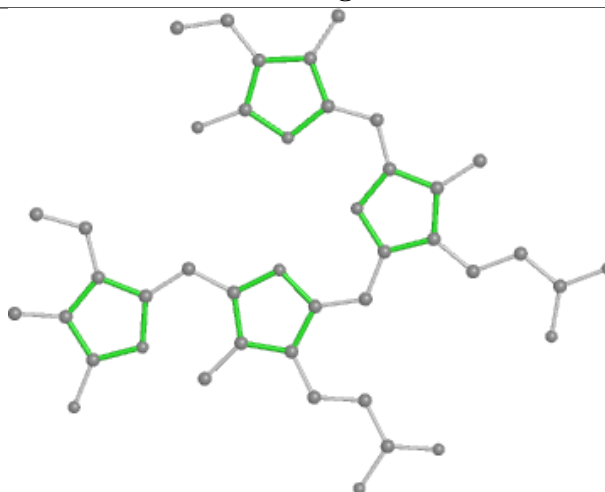
Bond lengths



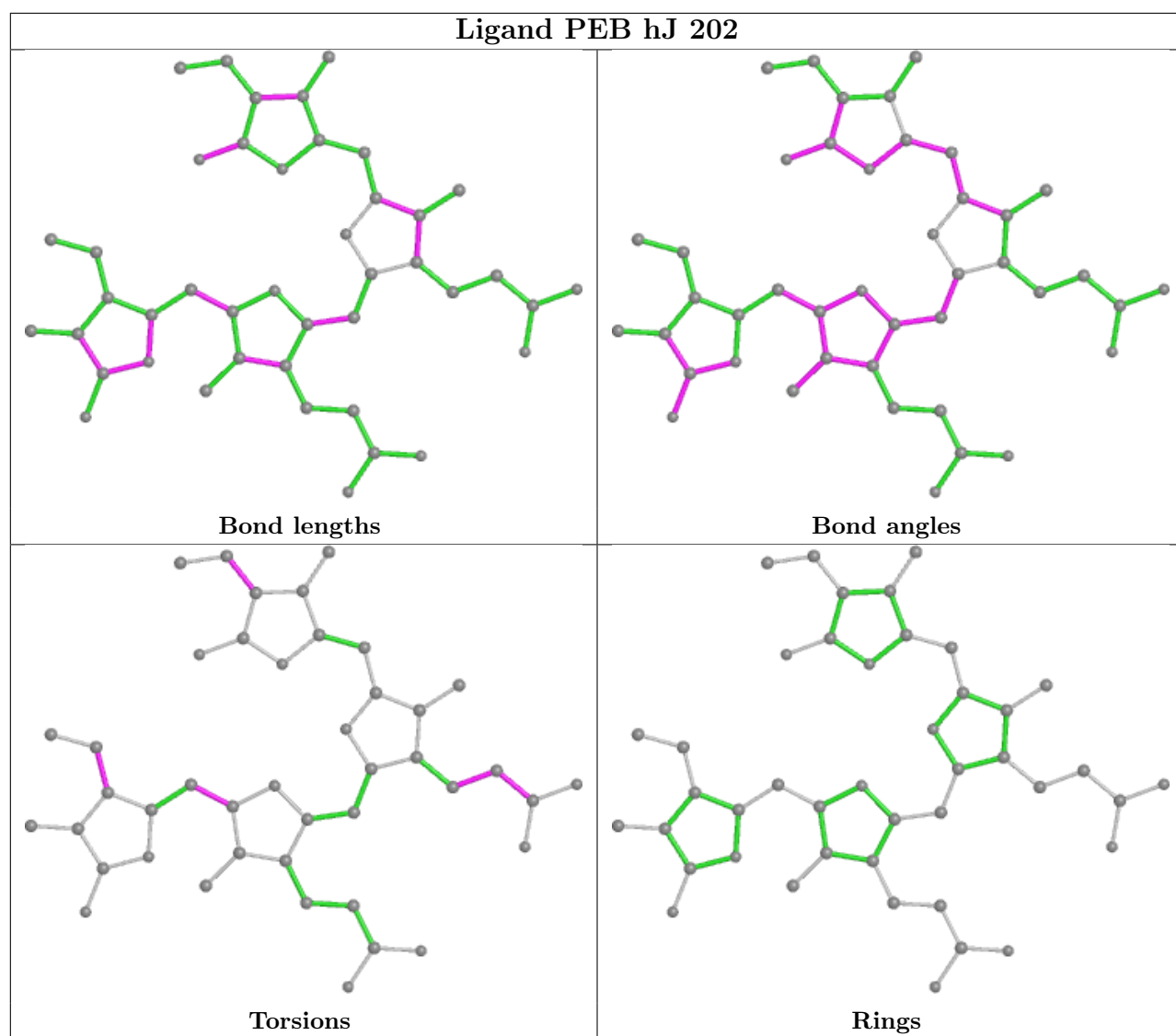
Bond angles



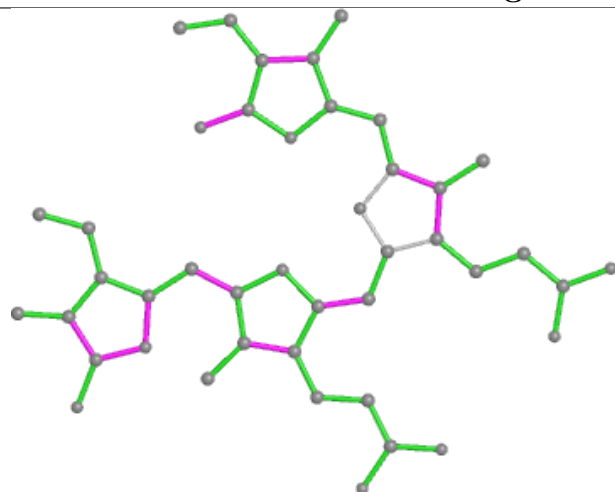
Torsions



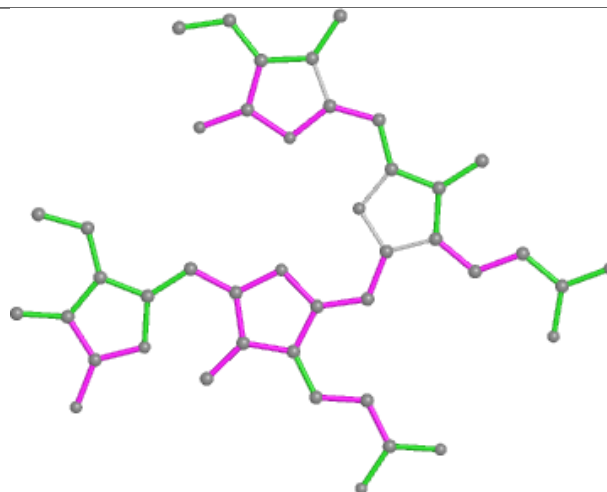
Rings



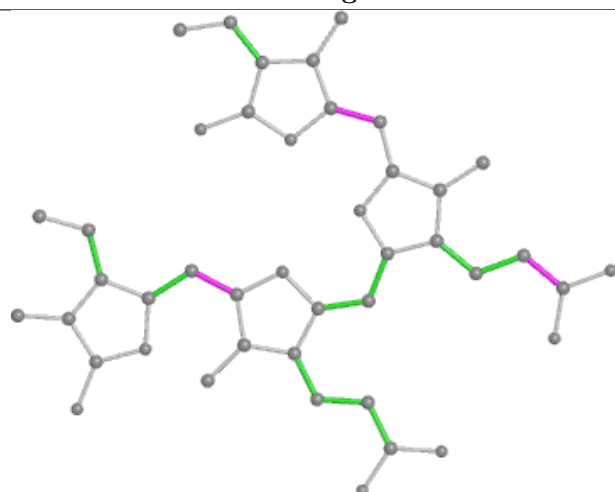
Ligand PEB cM 201



Bond lengths



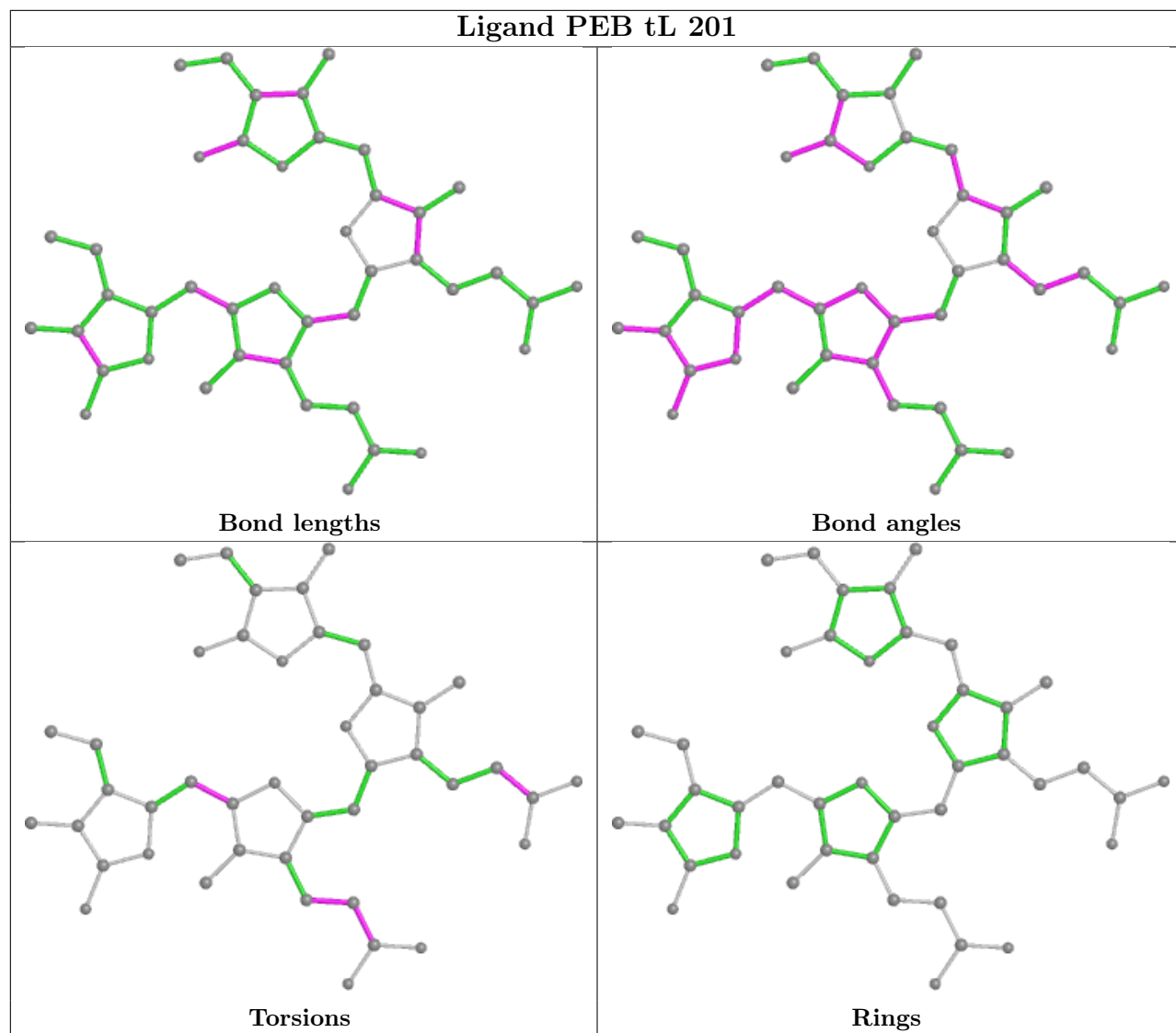
Bond angles

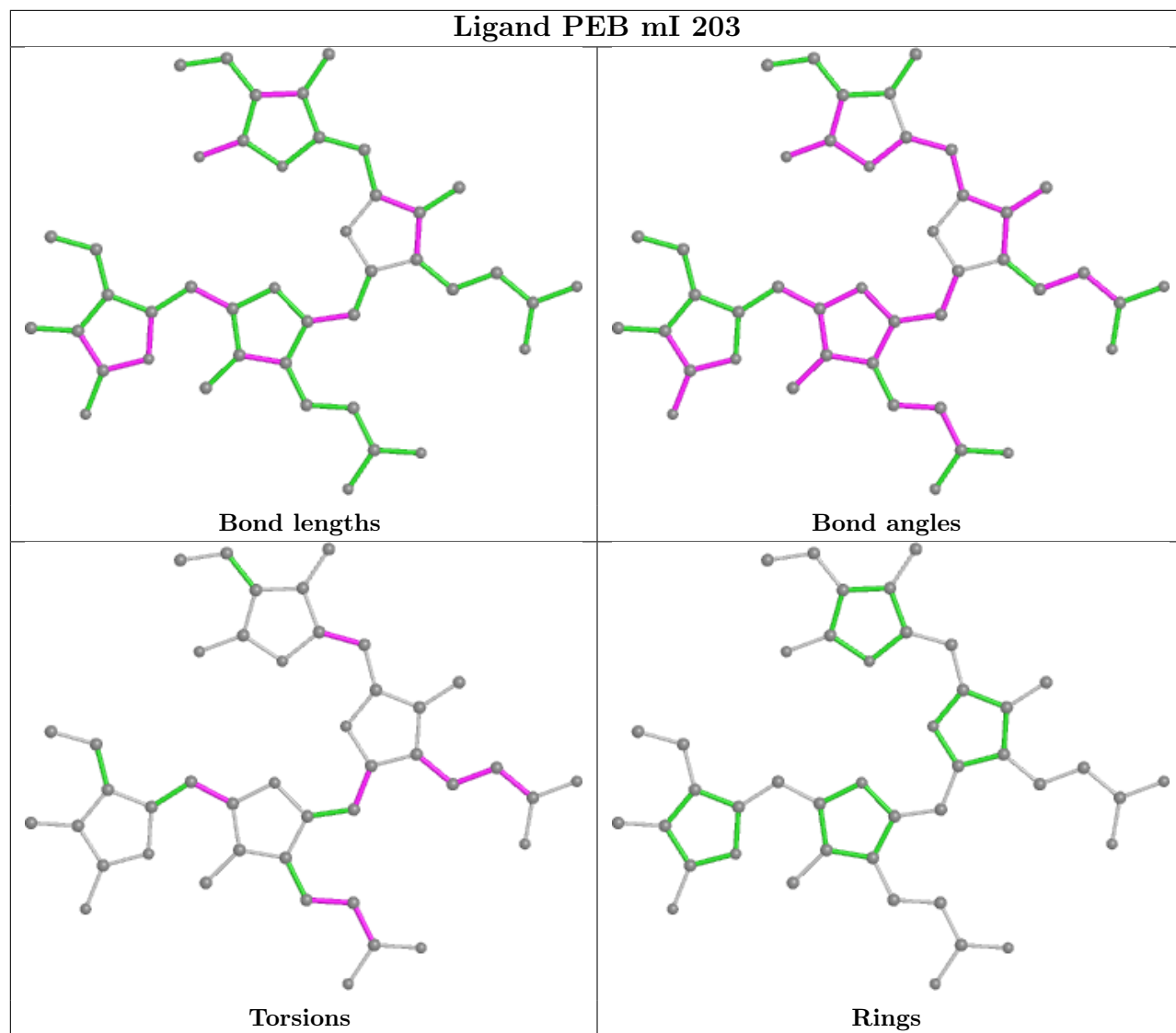


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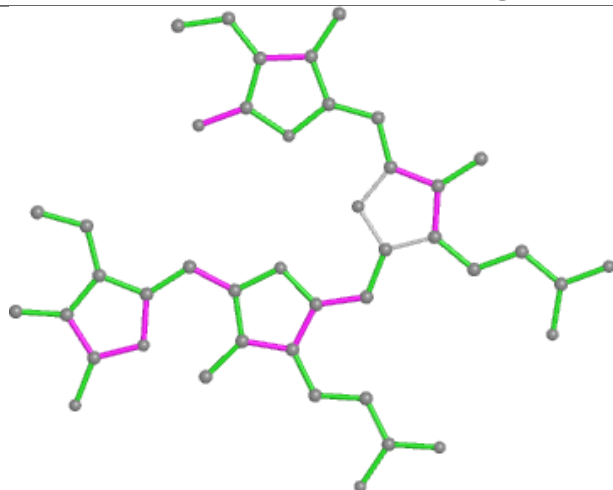


Rings

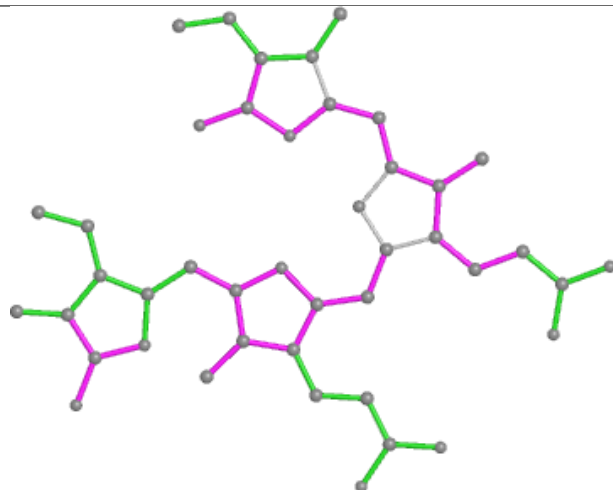




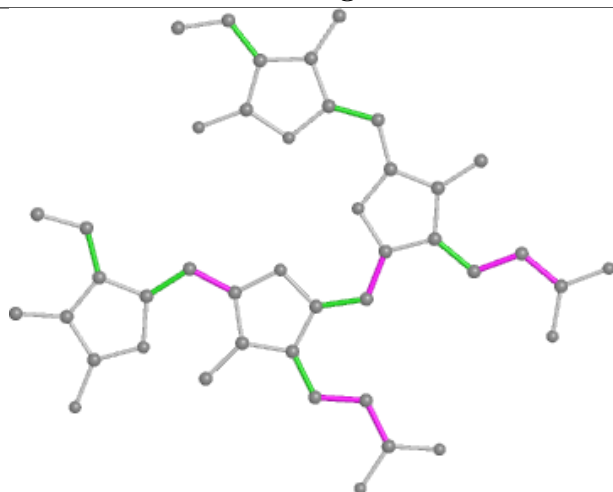
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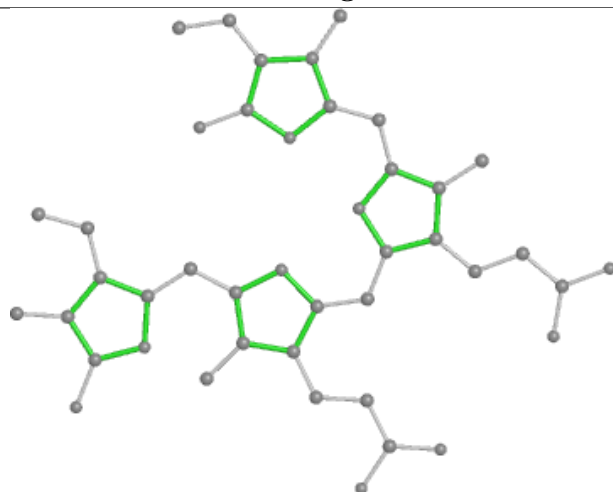
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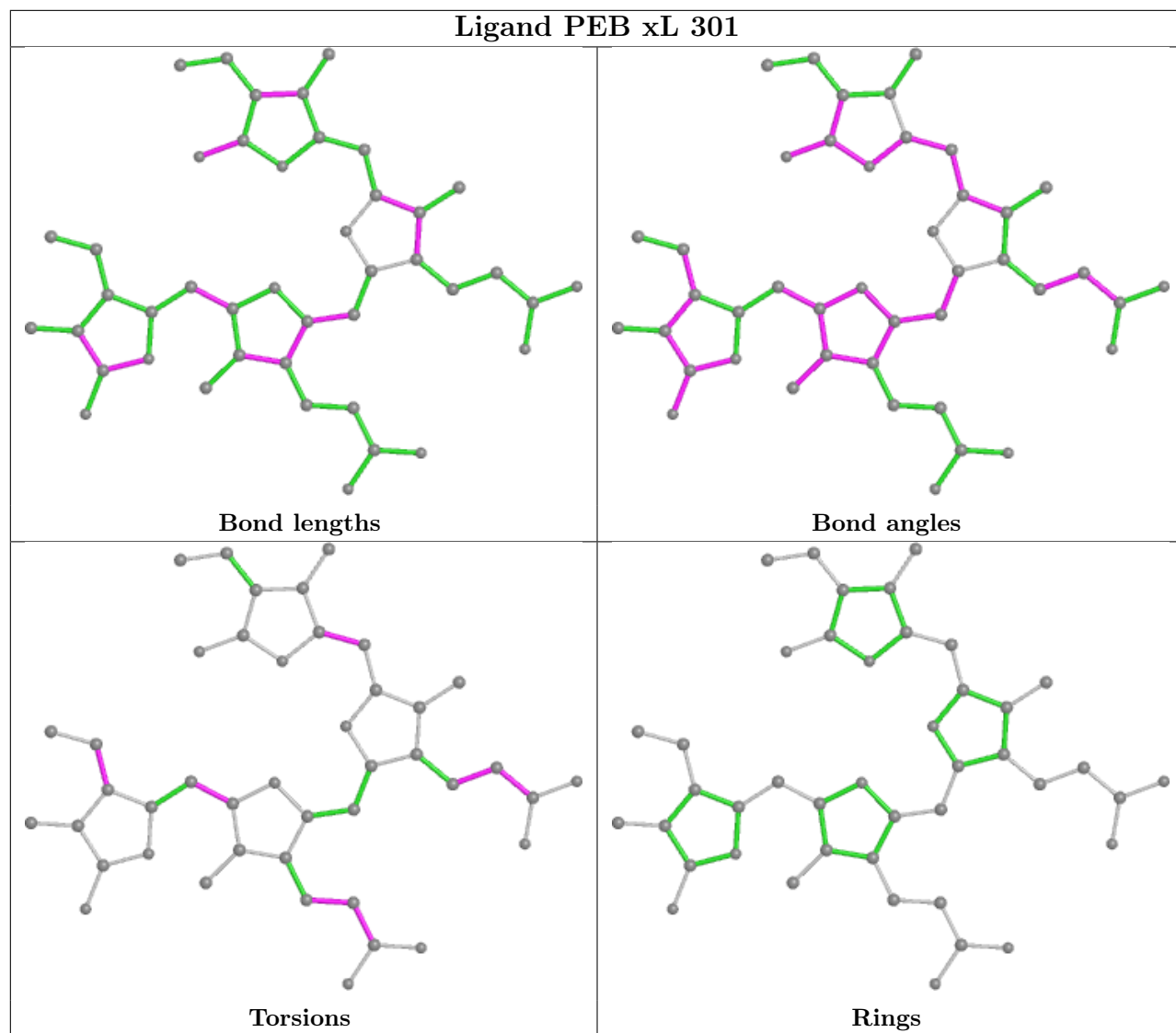
Bond angles



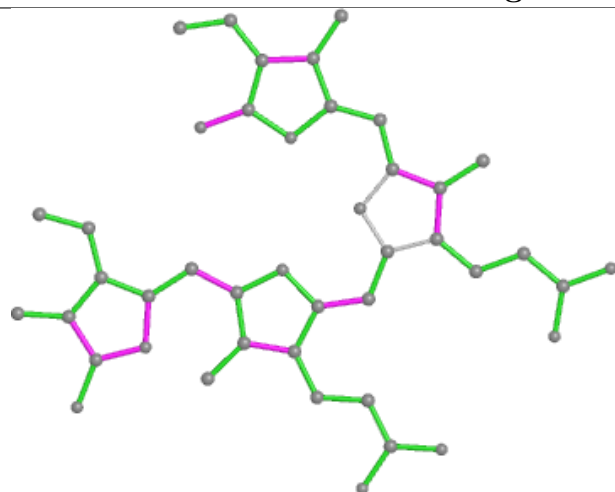
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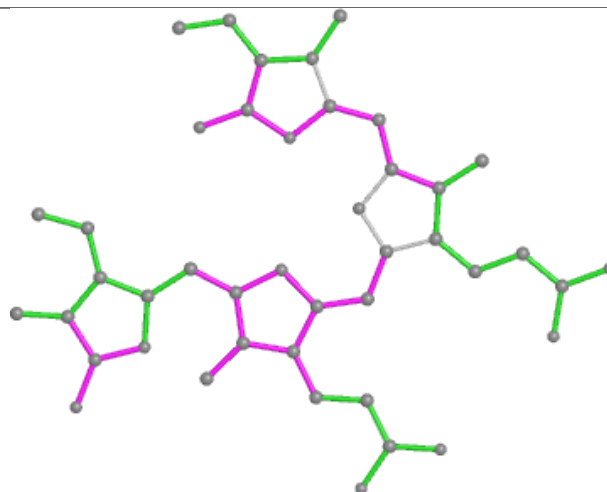
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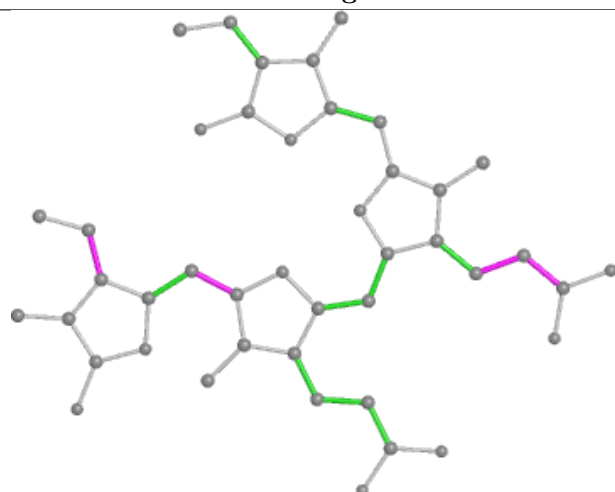
Ligand PEB OF 203



Bond lengths



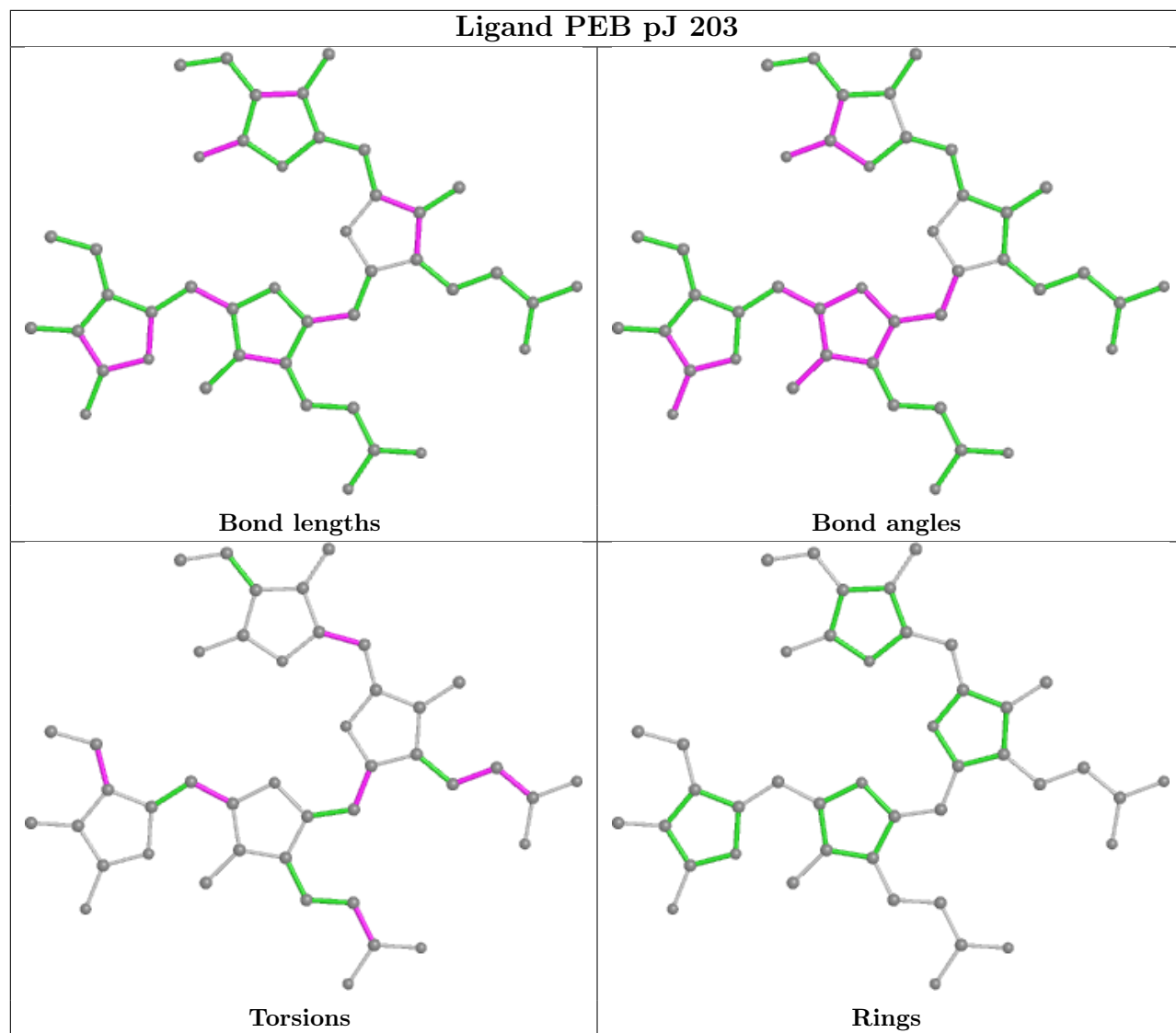
Bond angles

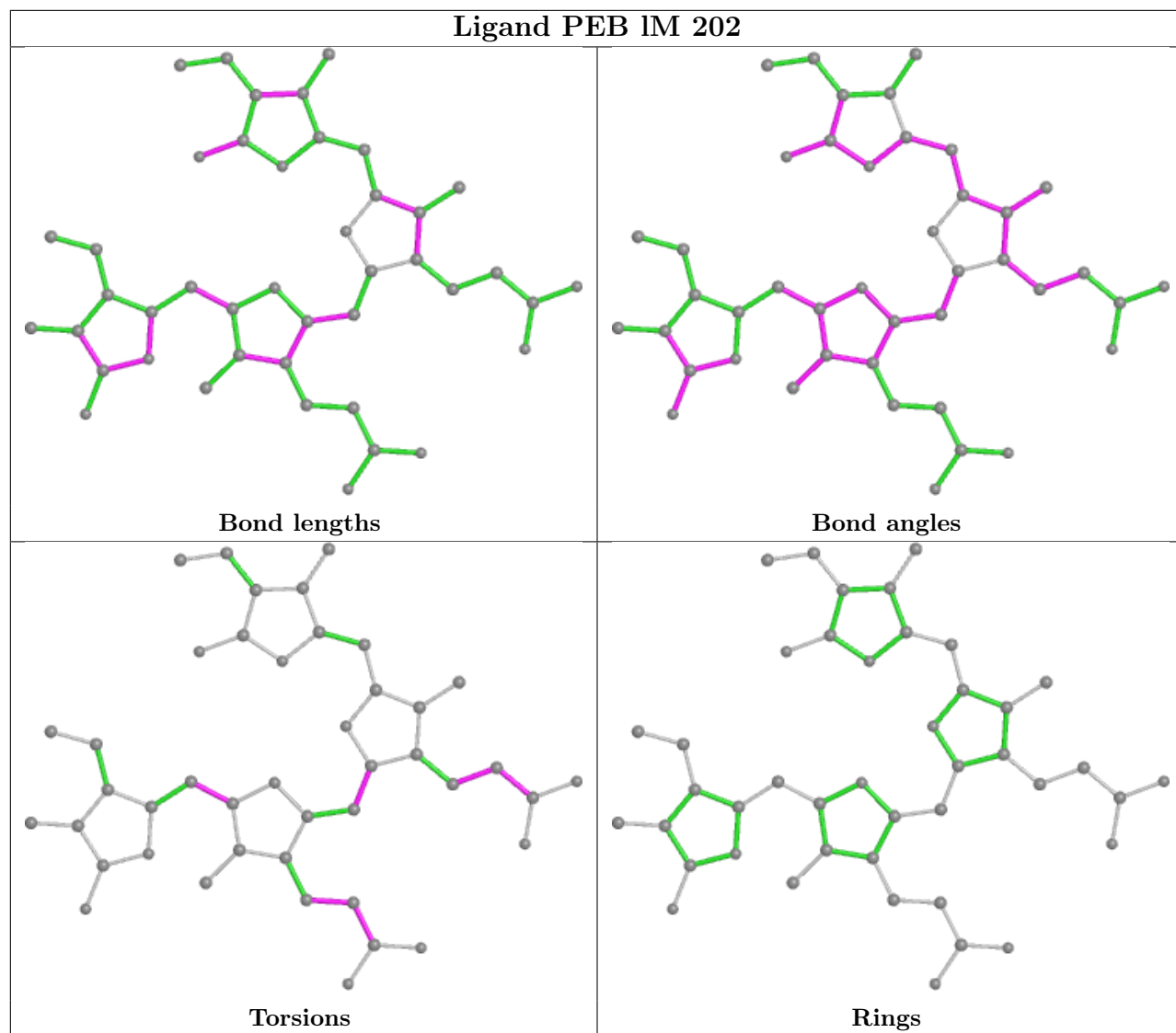


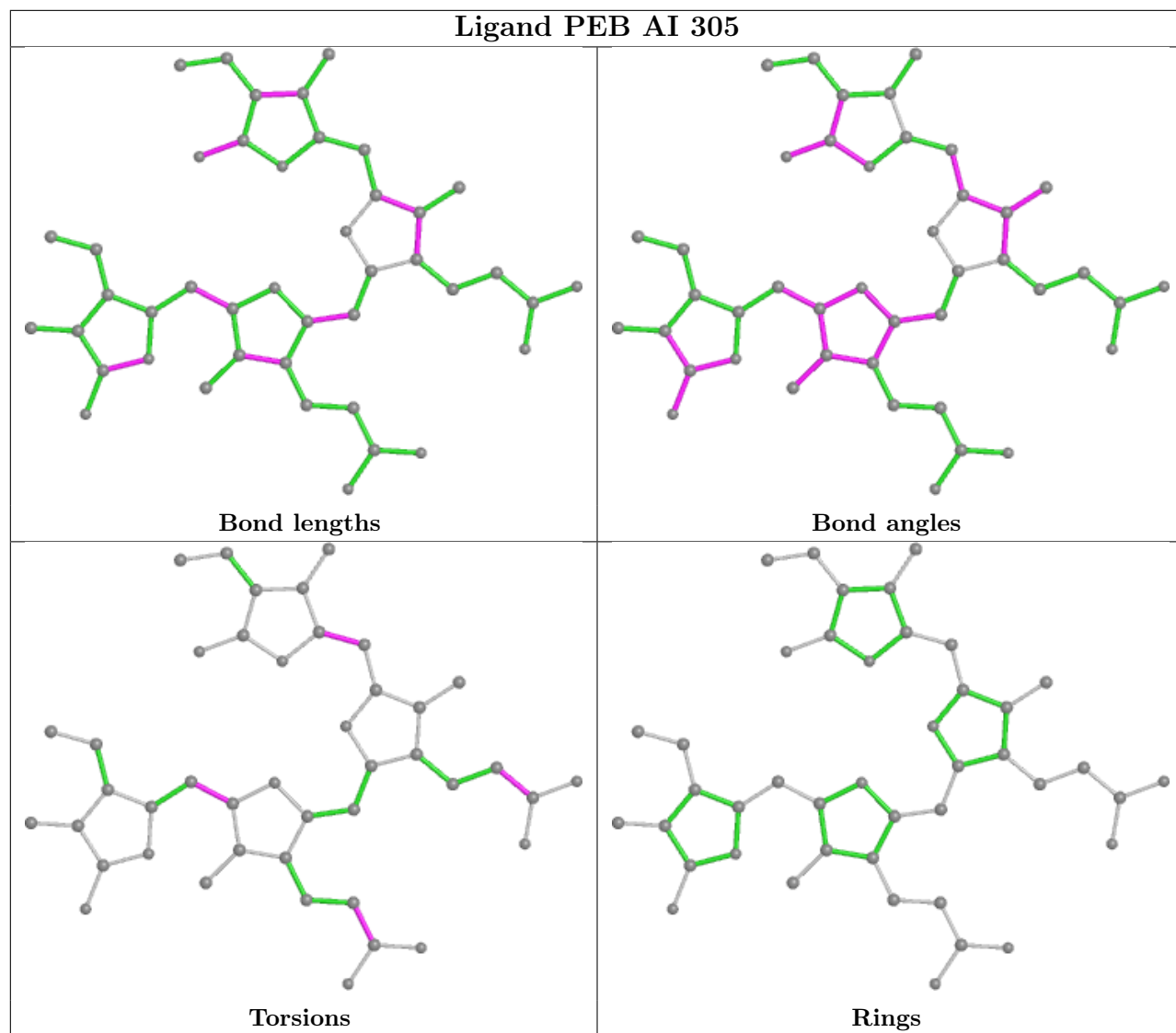
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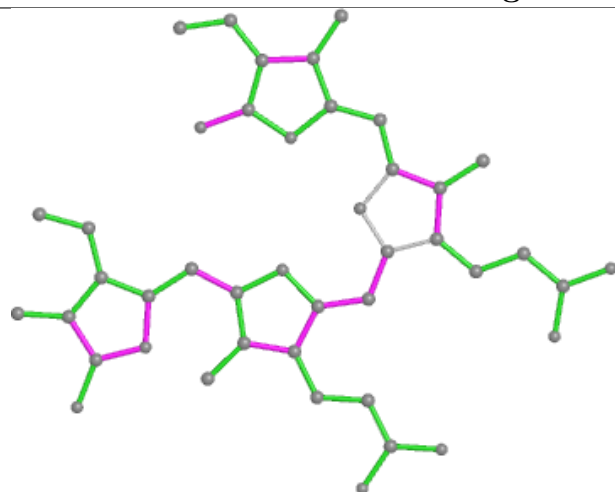
Rings



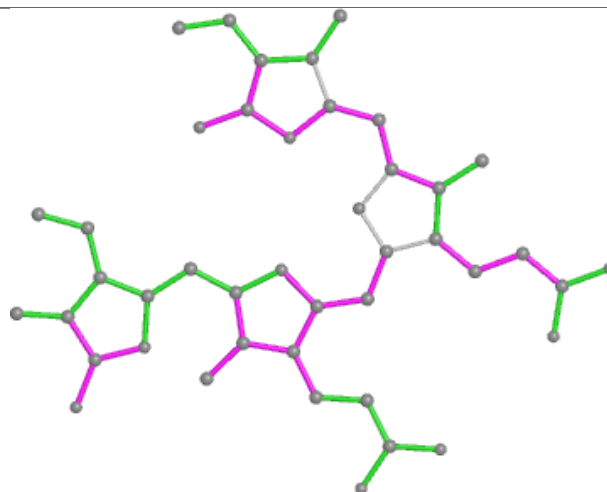




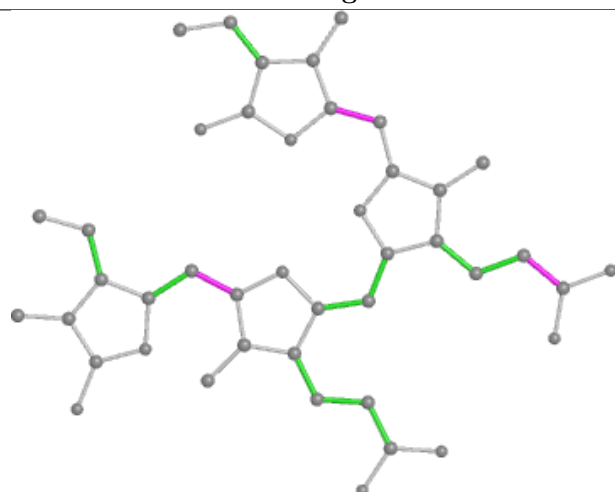
Ligand PEB HC 201



Bond lengths



Bond angles

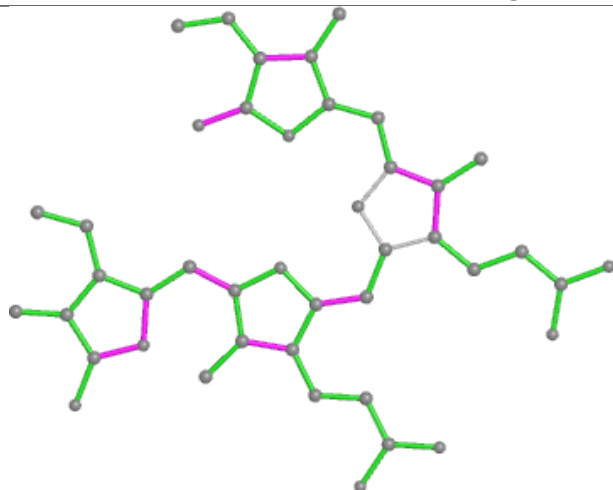


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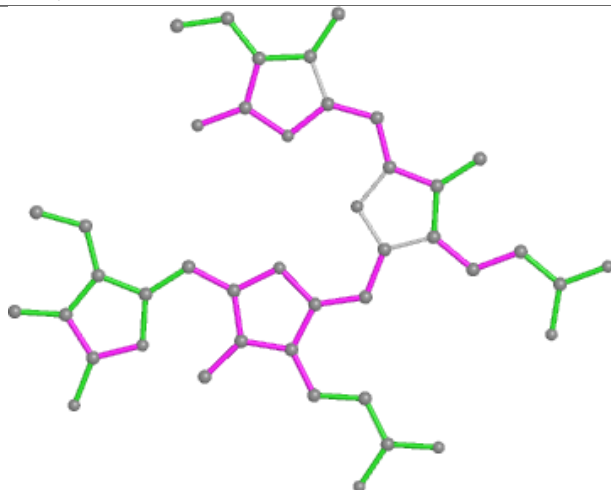


Rings

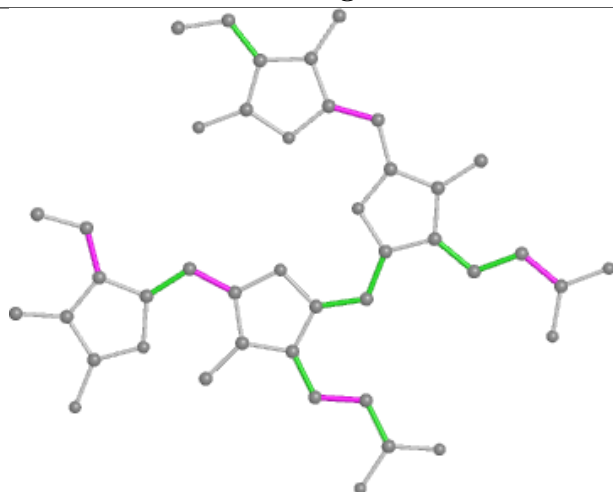
Ligand PEB QJ 201



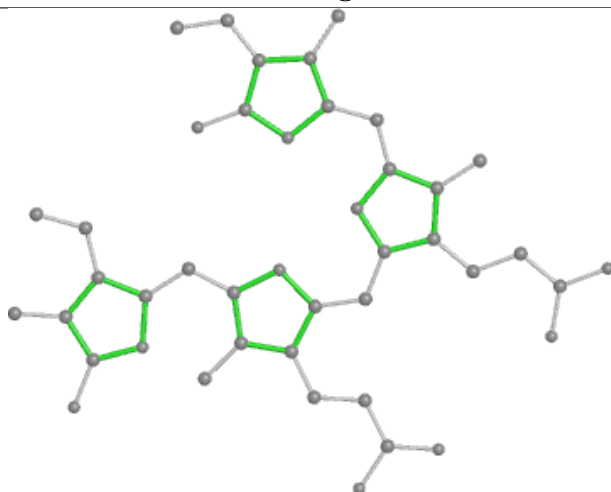
Bond lengths



Bond angles

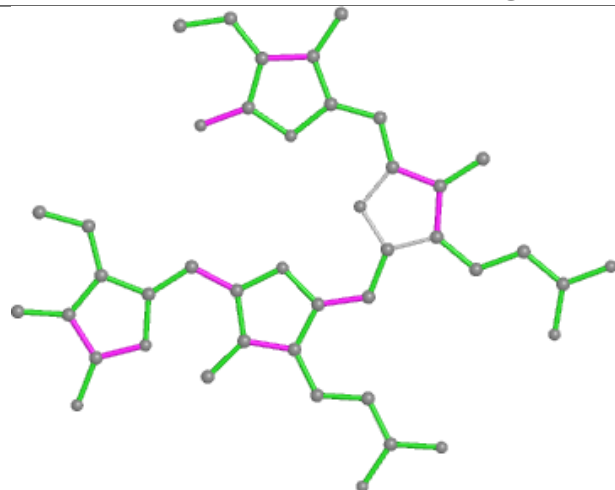


Torsions

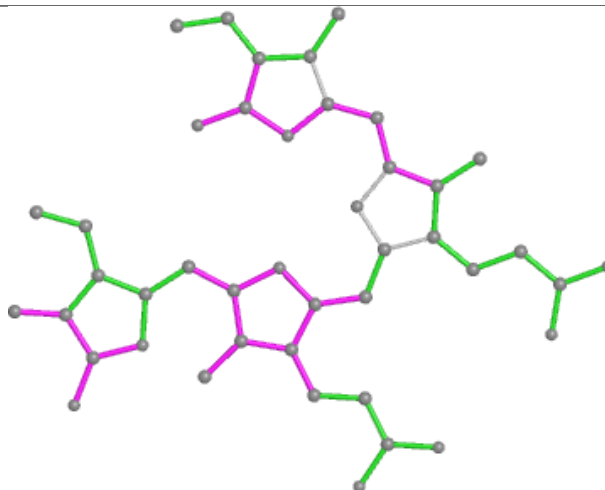


Rings

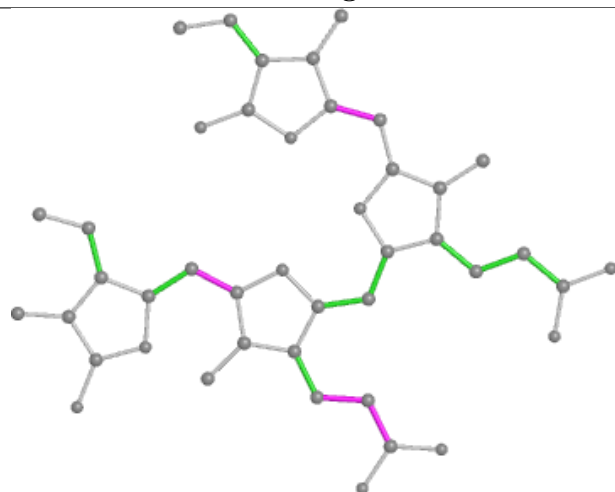
Ligand PEB RK 203



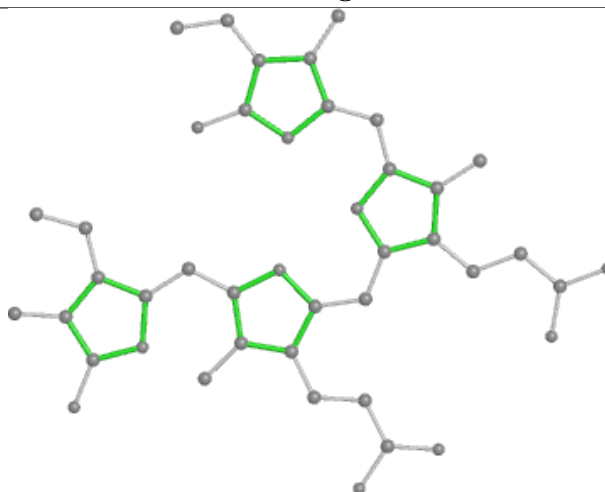
Bond lengths



Bond angles

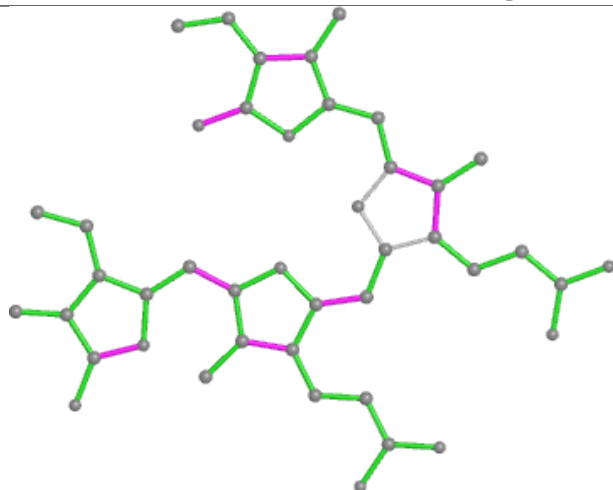


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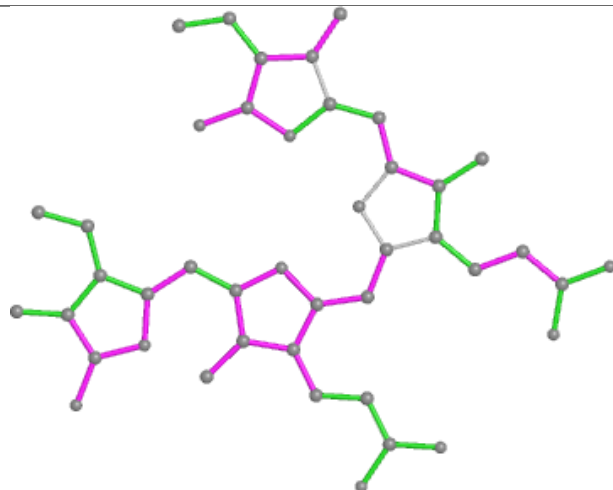


Rings

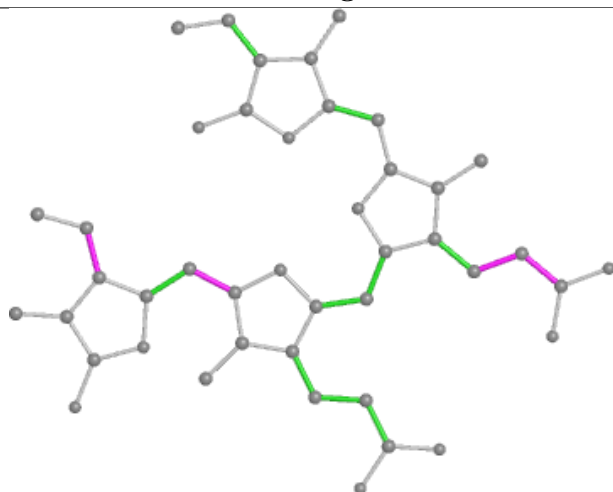
Ligand PEB VR 202



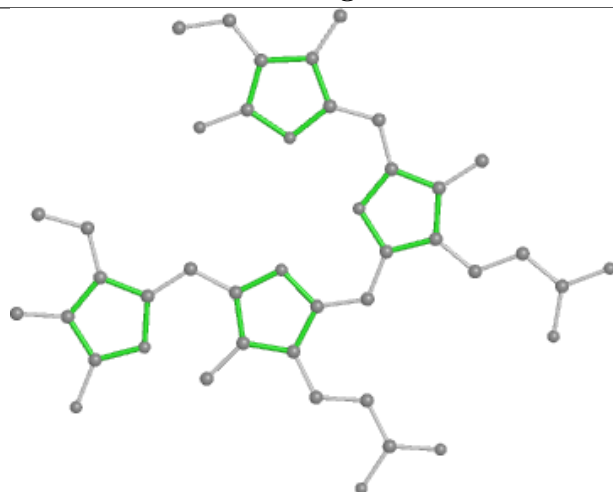
Bond lengths



Bond angles

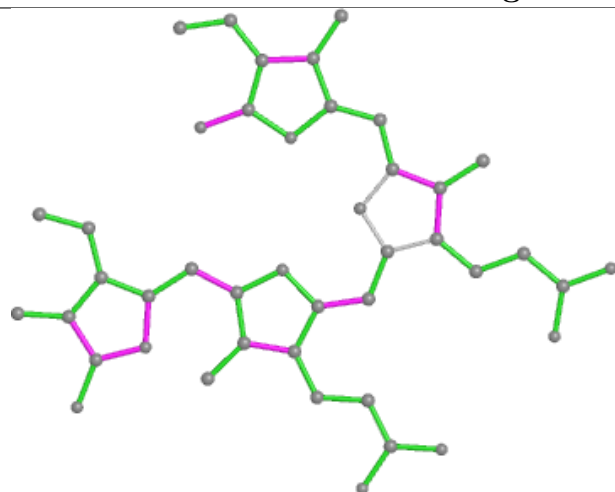


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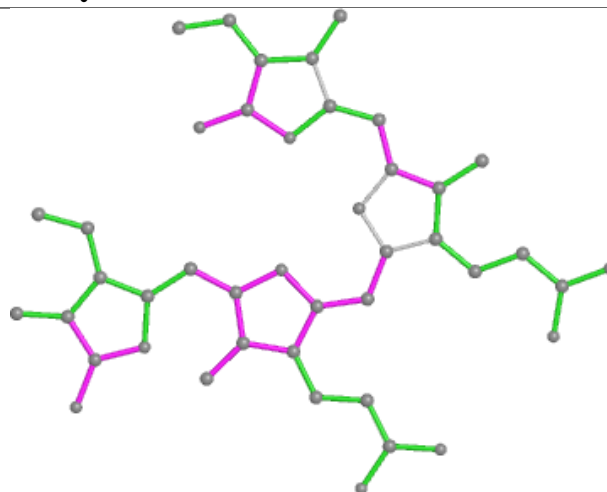


Rings

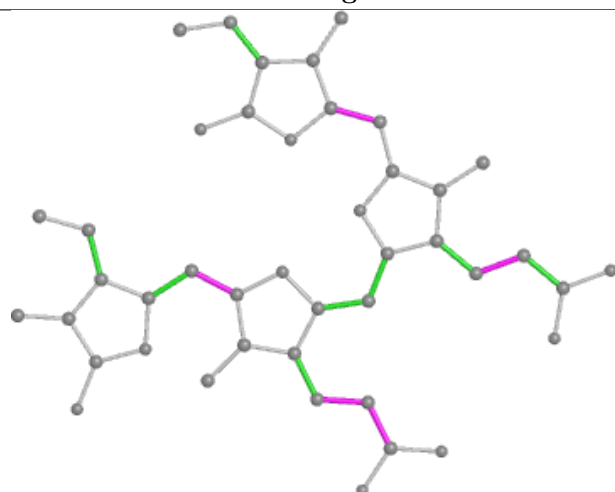
Ligand PEB KQ 201



Bond lengths



Bond angles

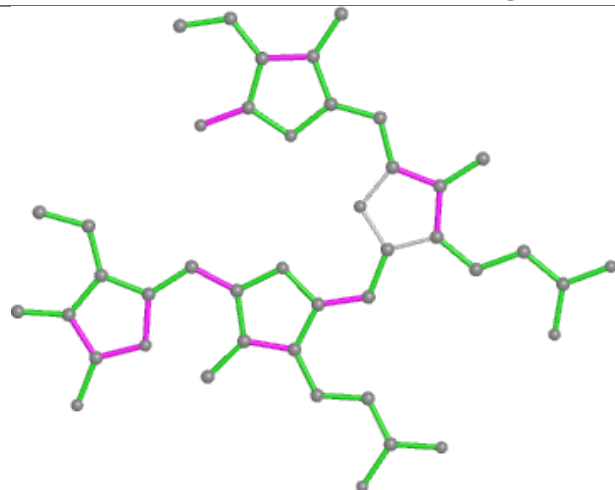


Torsions

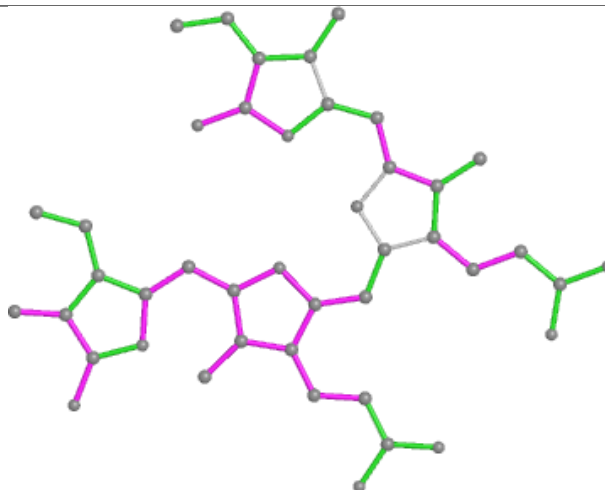


Rings

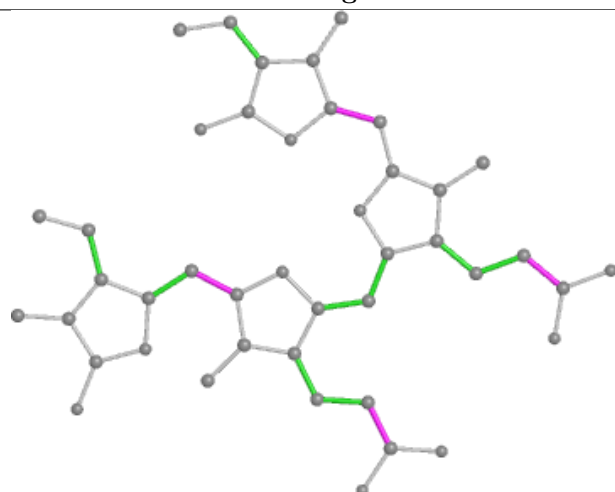
Ligand PEB UK 202



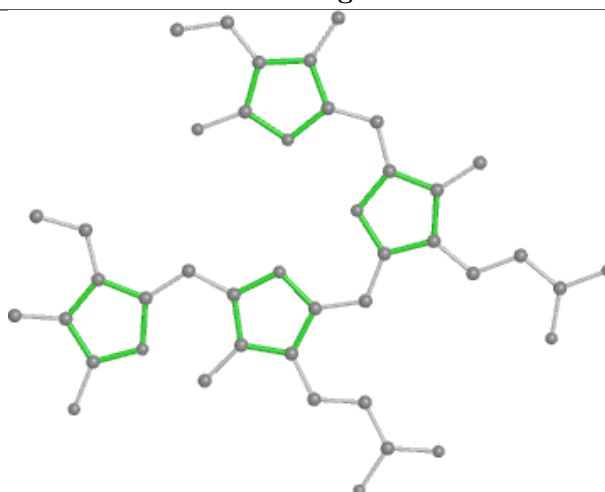
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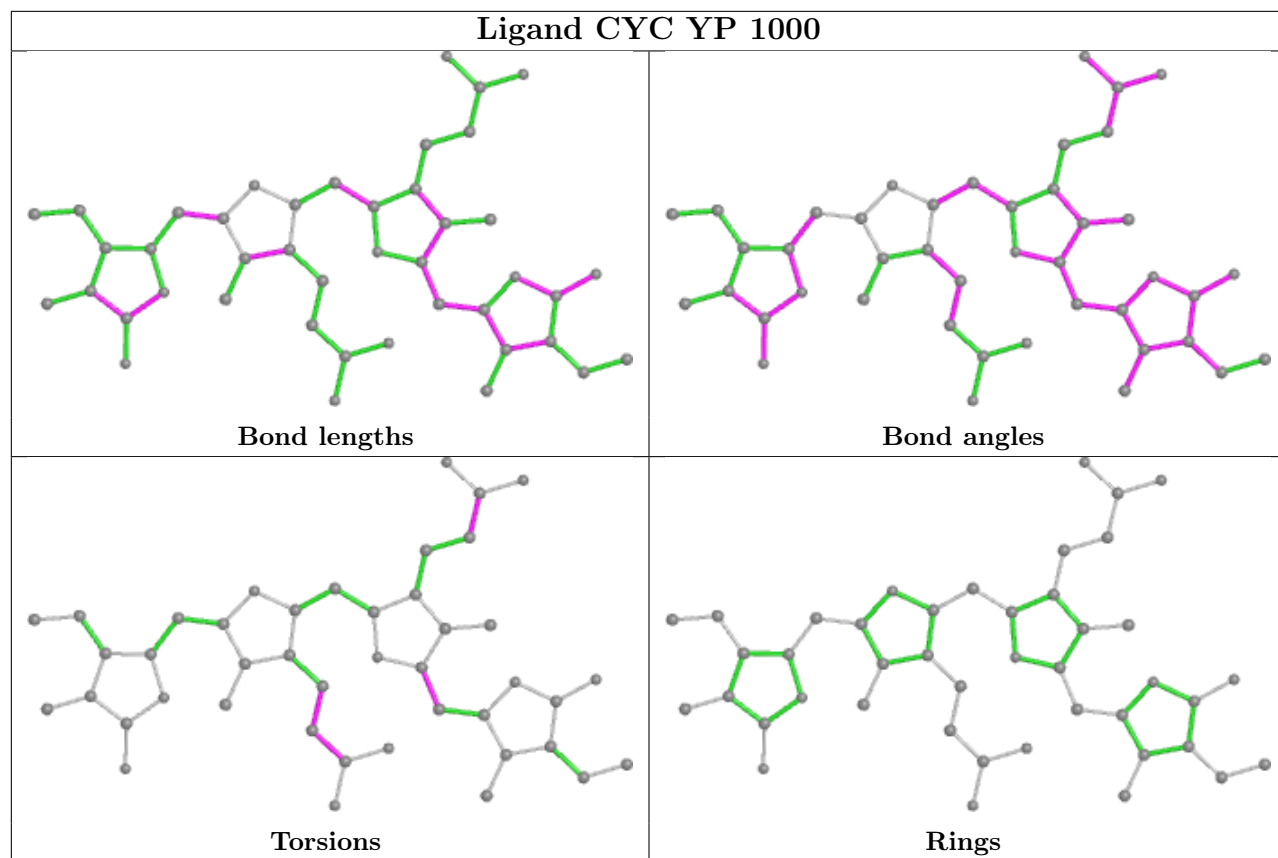
Bond angles



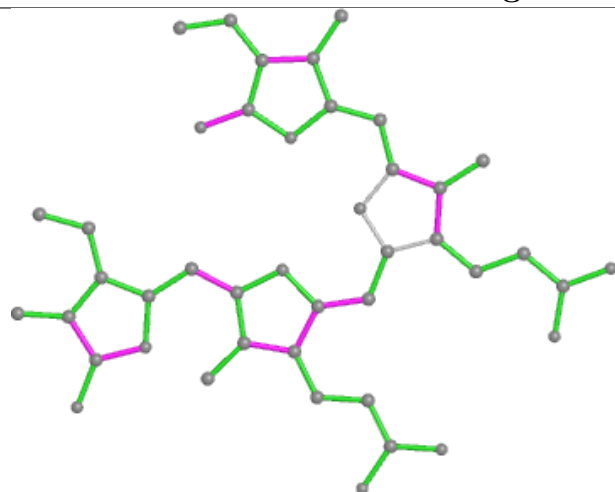
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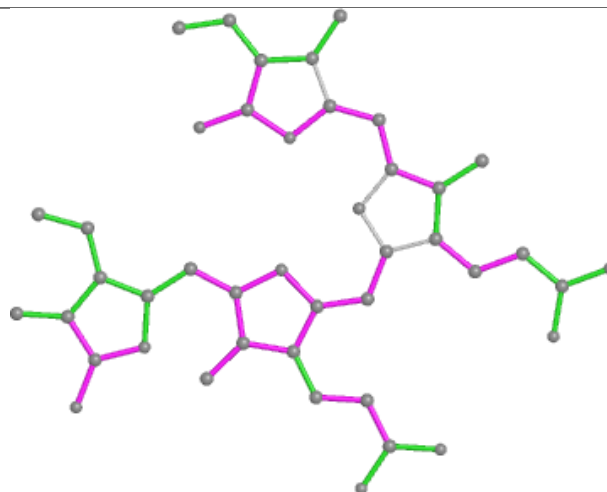
Rings



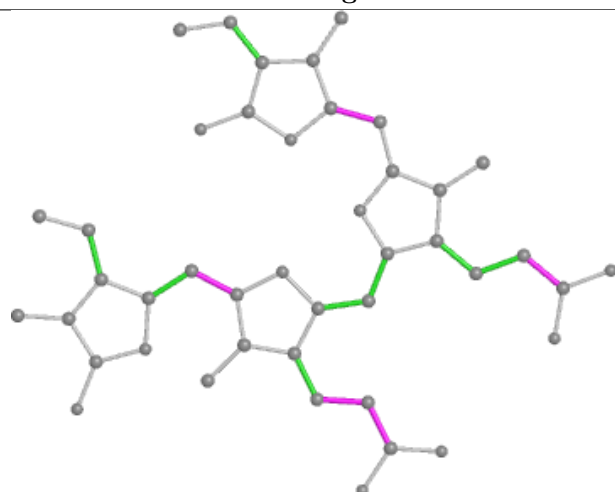
Ligand PEB OR 202



Bond lengths



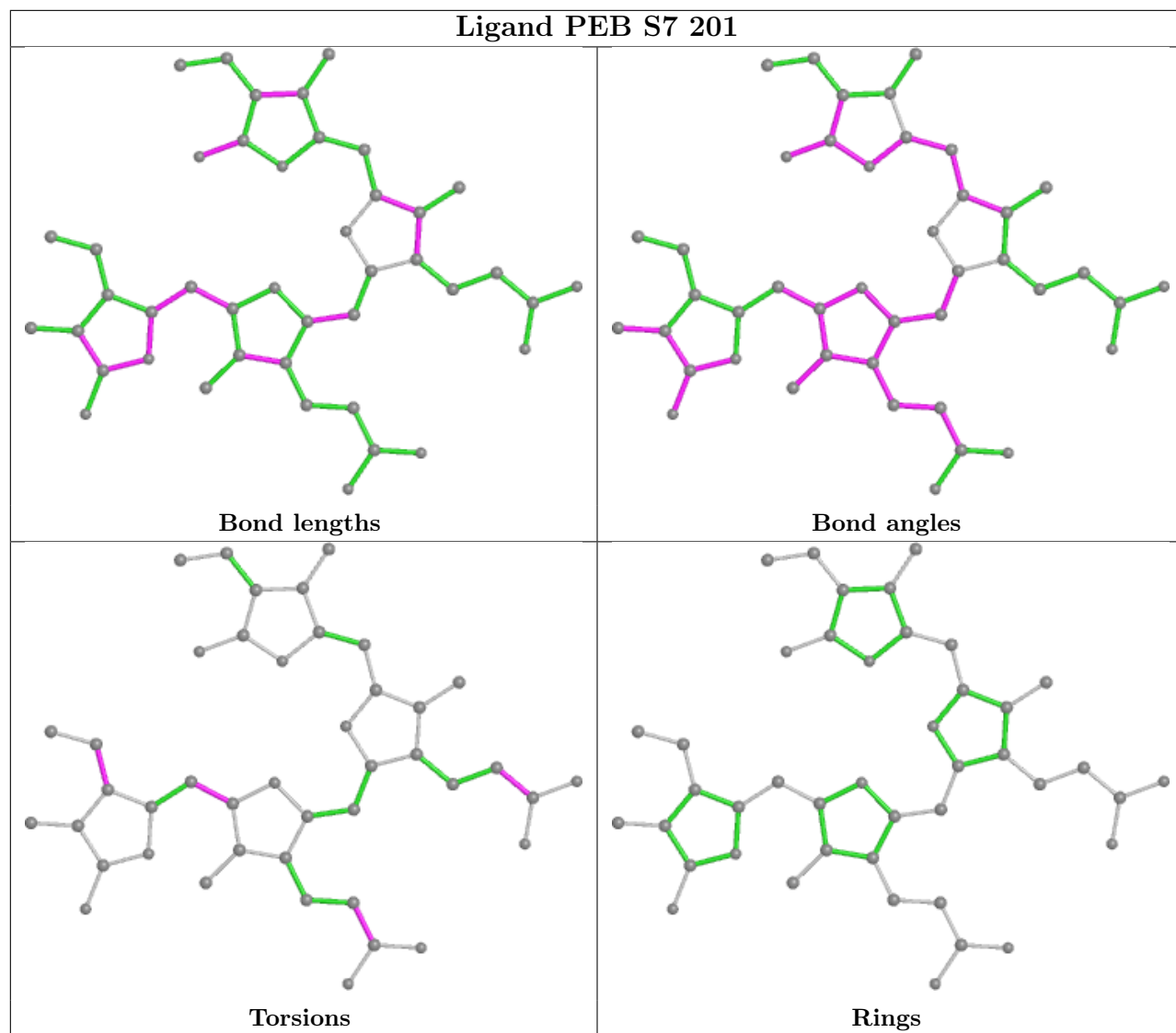
Bond angles



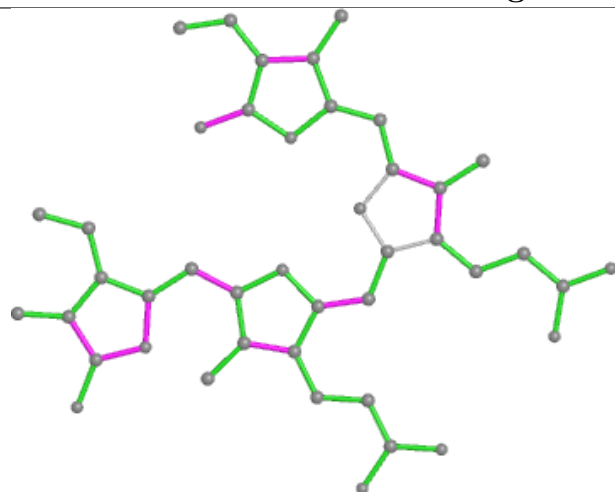
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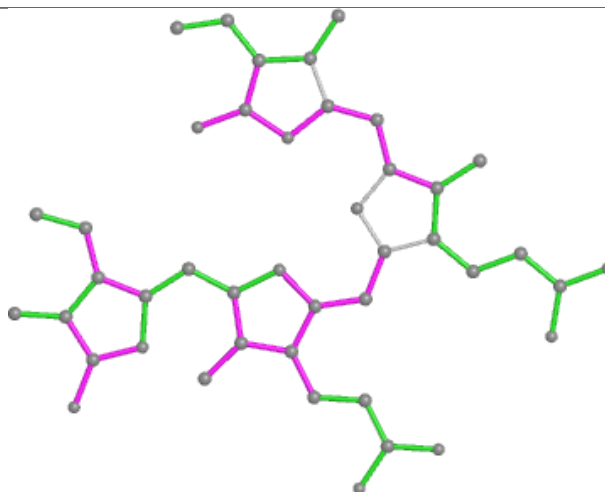
Rings



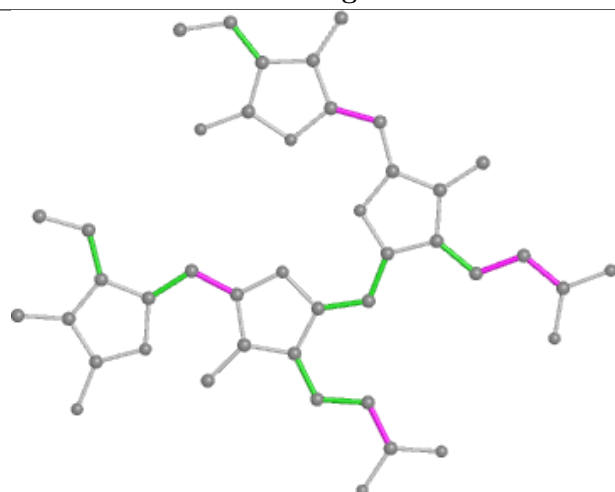
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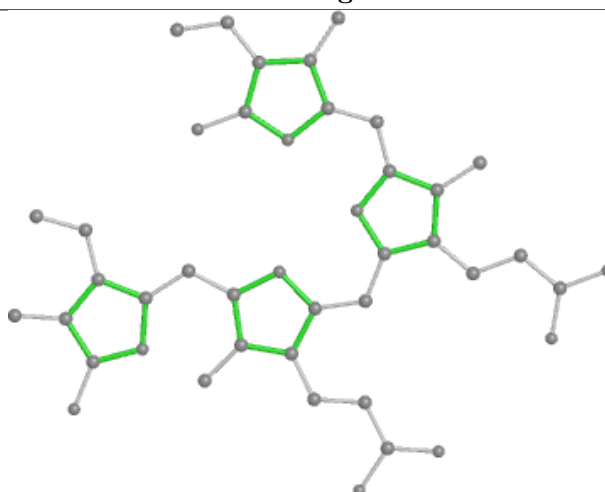
Bond lengths



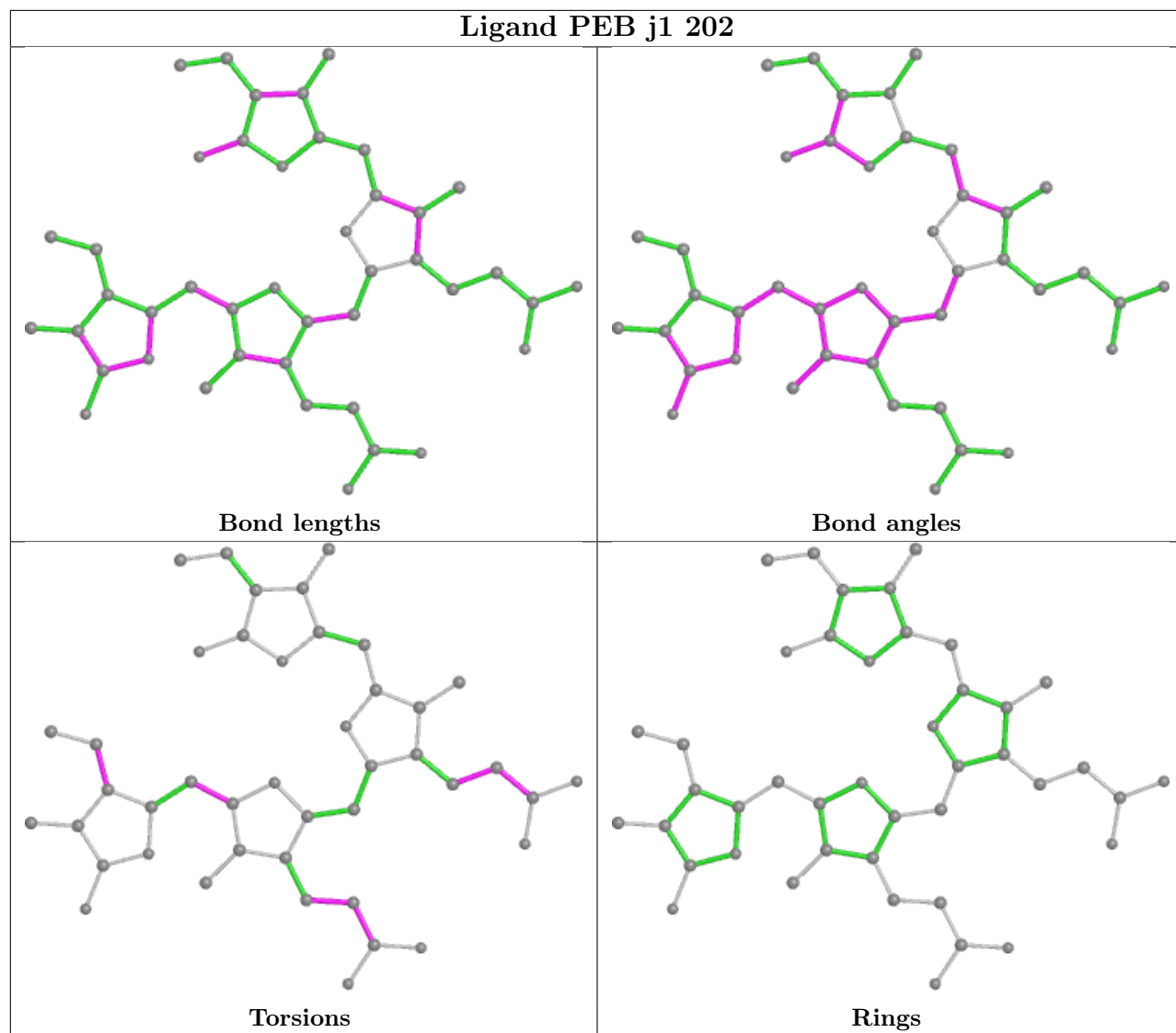
Bond angles



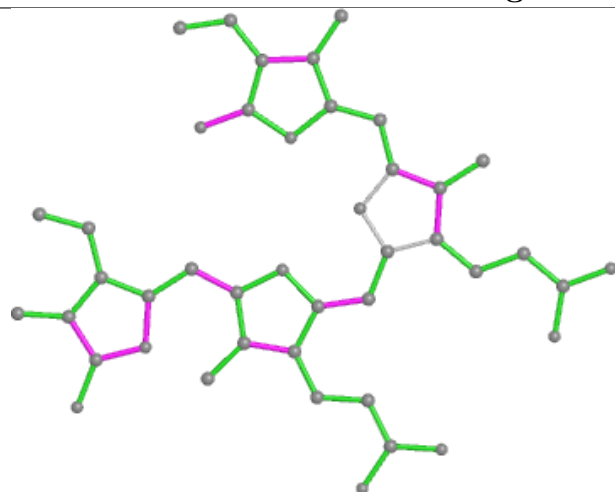
Torsions



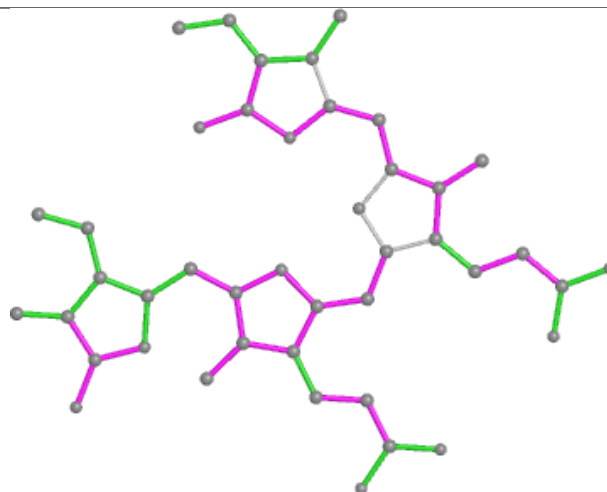
Rings



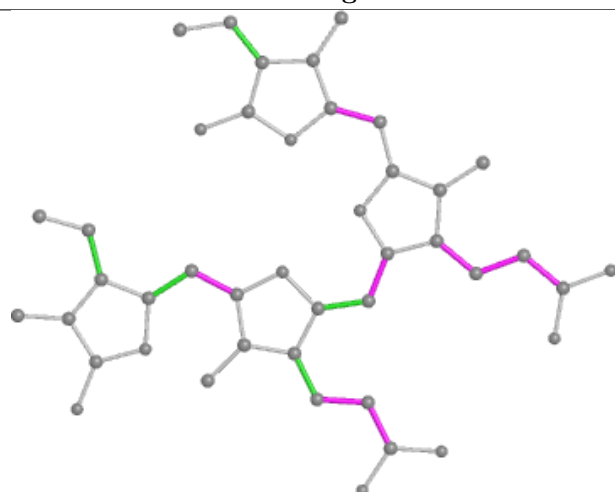
Ligand PEB TF 202



Bond lengths



Bond angles

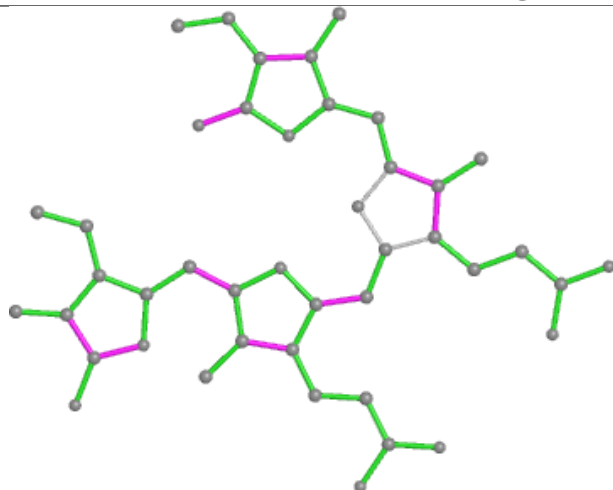


Torsions

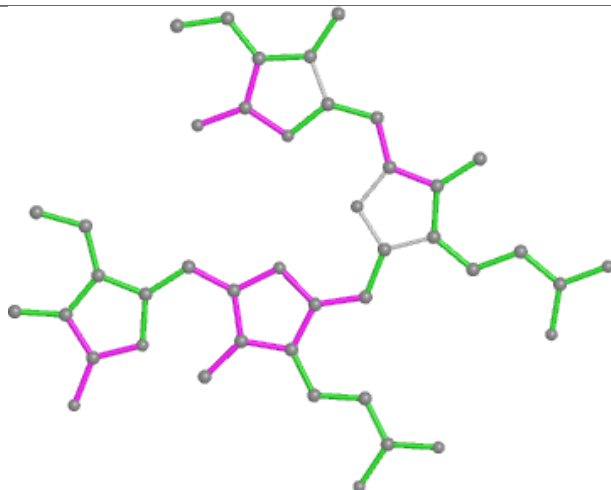


Rings

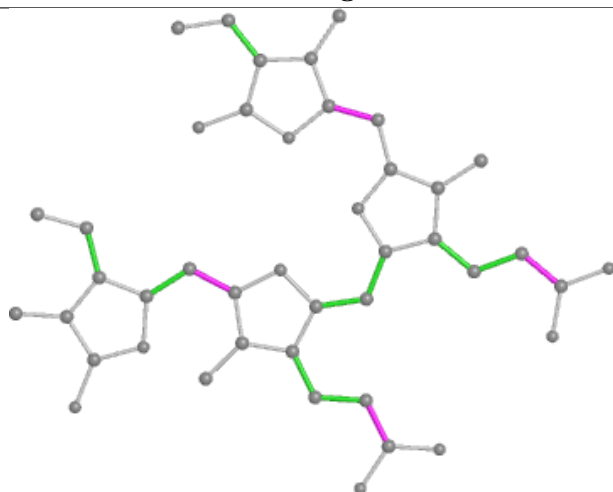
Ligand PEB 19 202



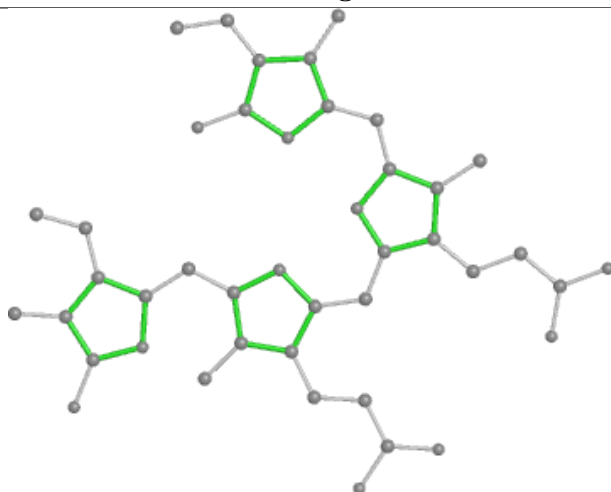
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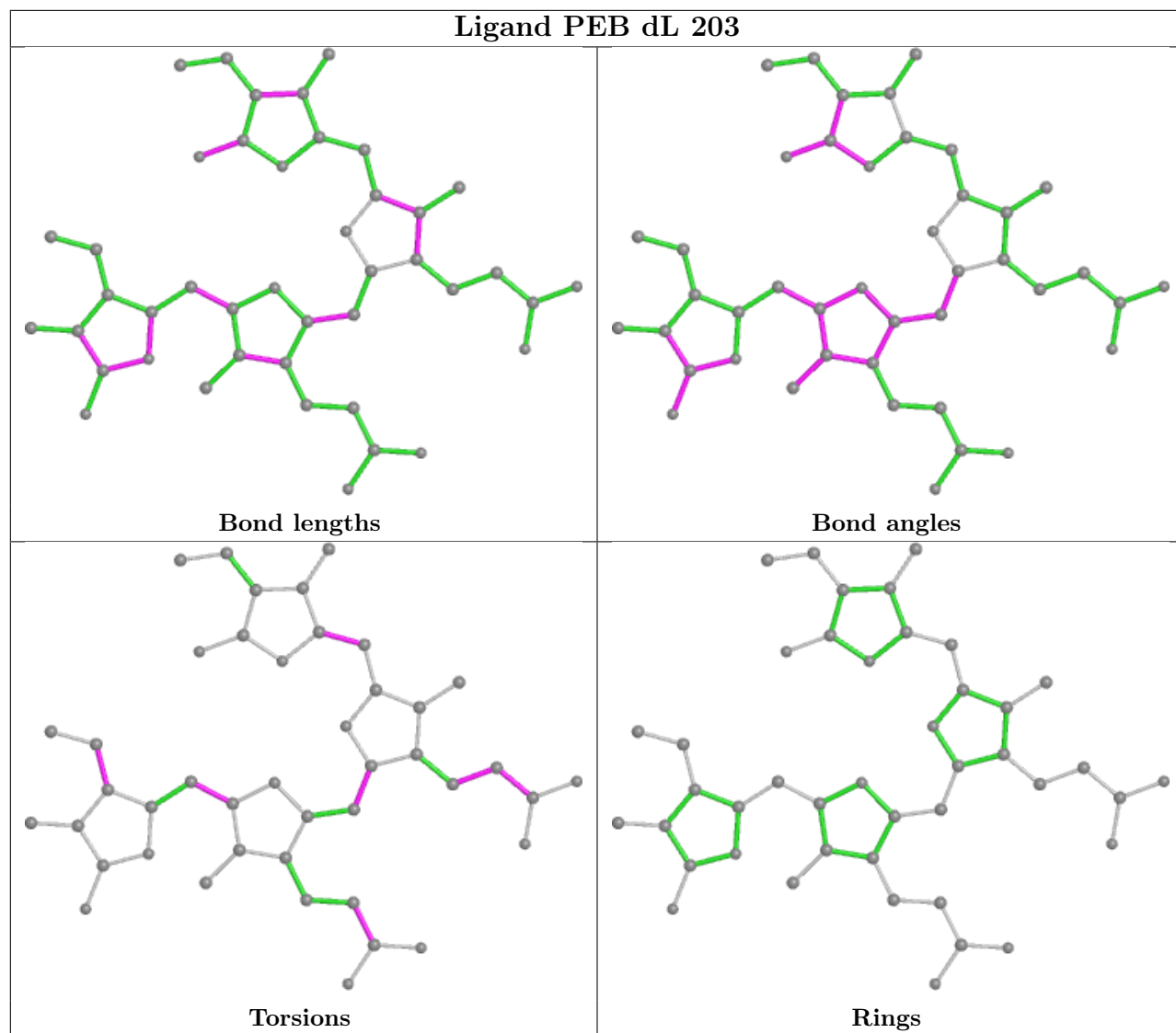
Bond angles



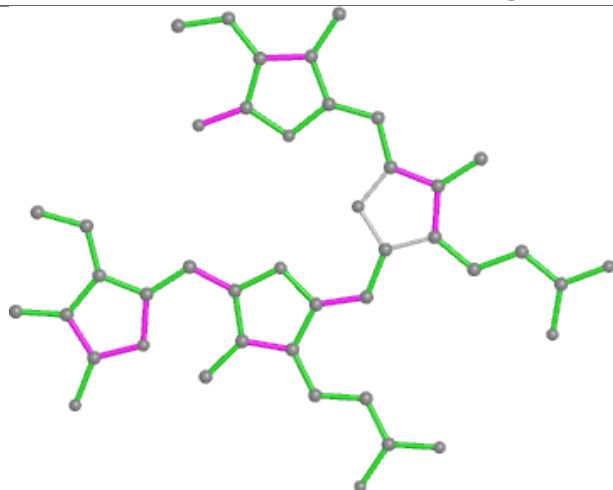
Torsions



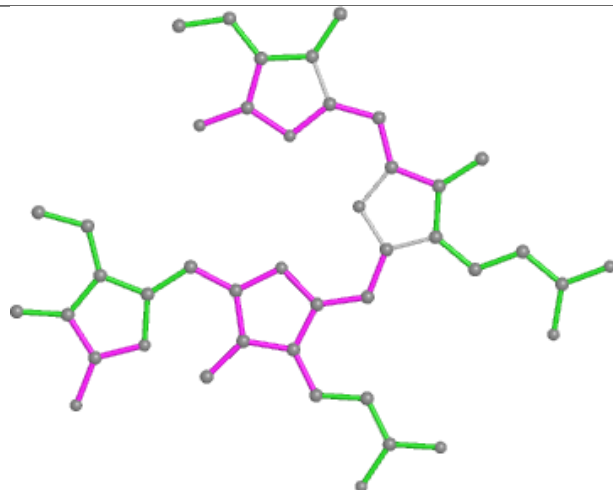
Rings



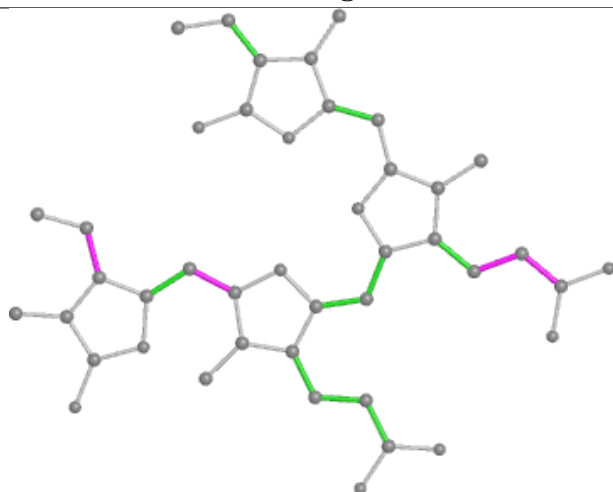
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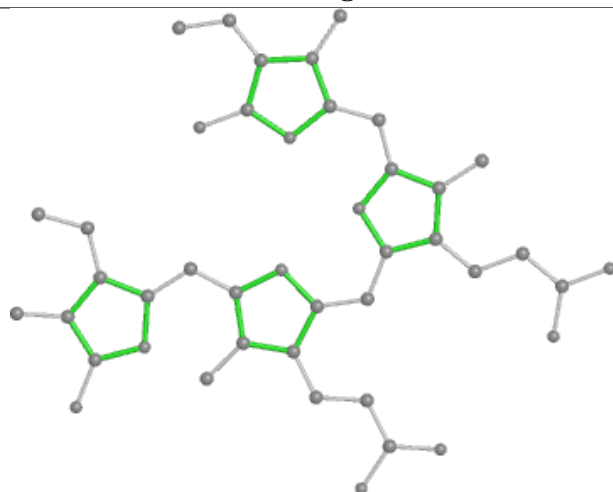
Bond lengths



Bond angles

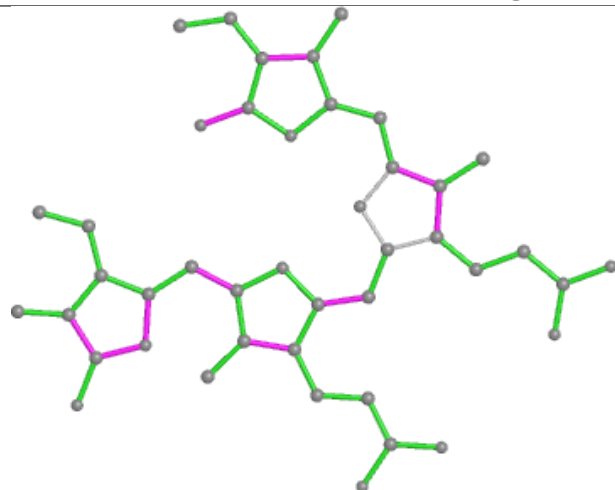


Torsions

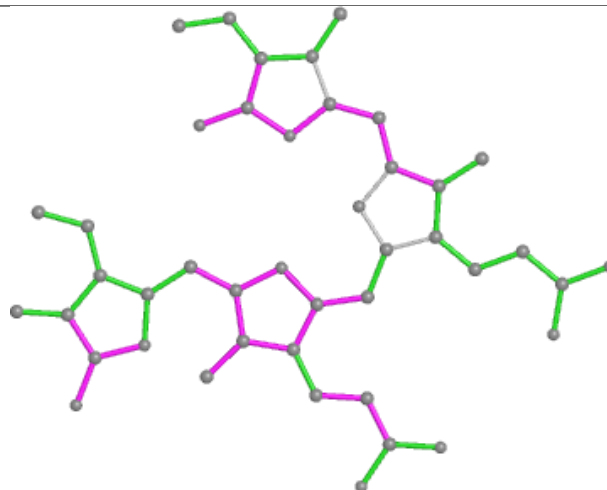


Rings

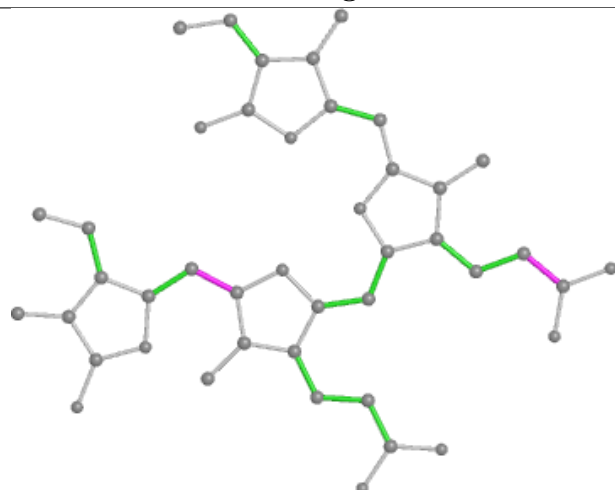
Ligand PEB Y7 201



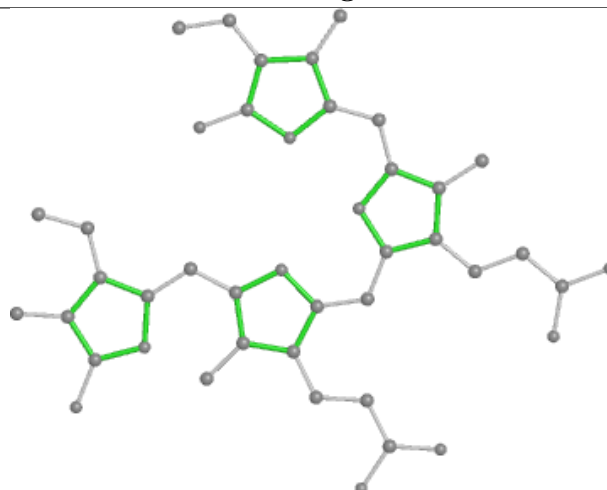
Bond lengths



Bond angles

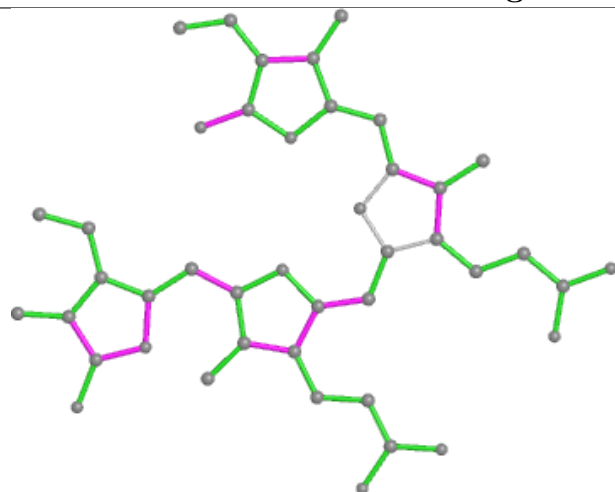


Torsions

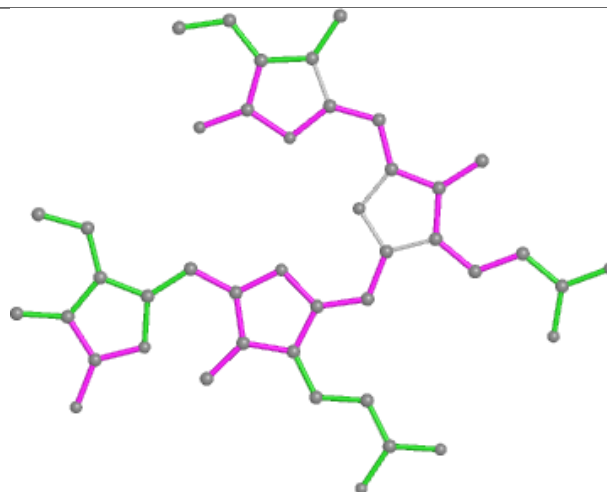


Rings

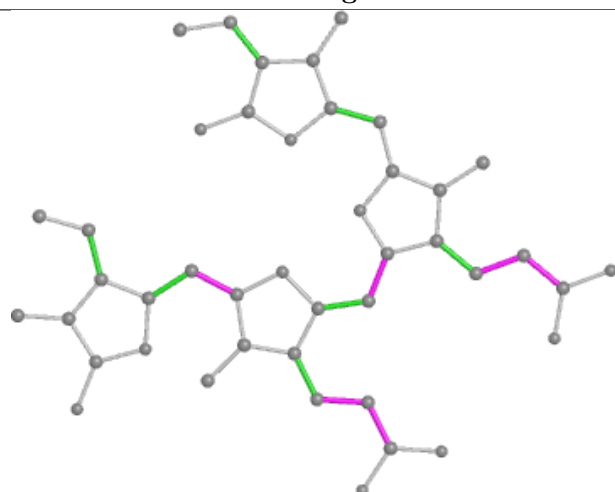
Ligand PEB IM 202



Bond lengths



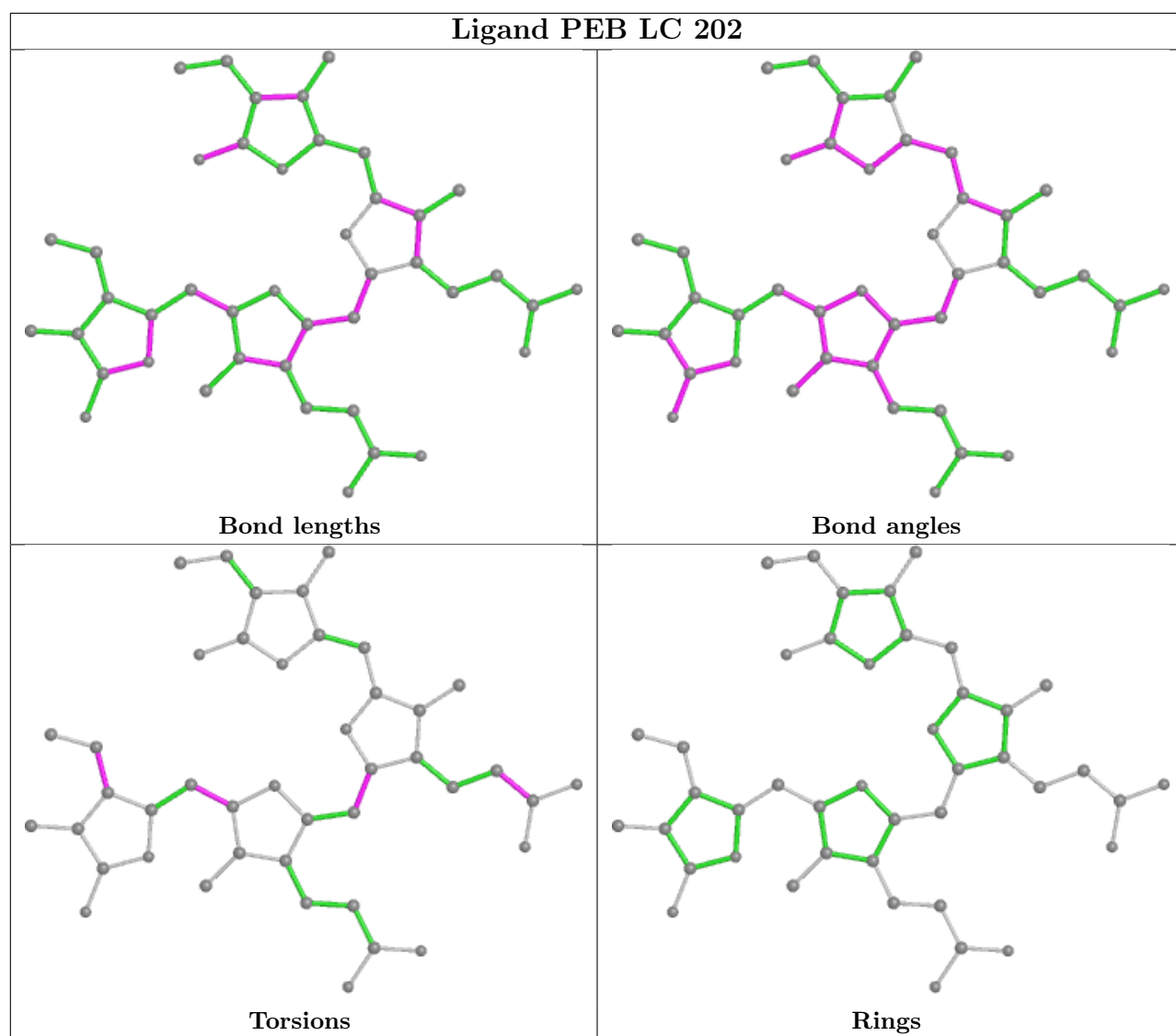
Bond angles



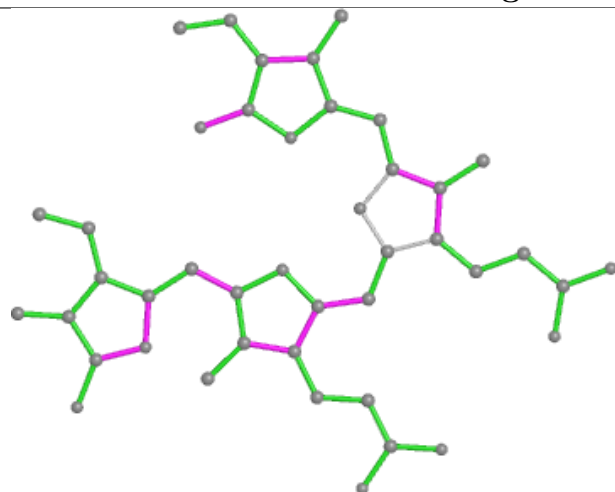
Torsions



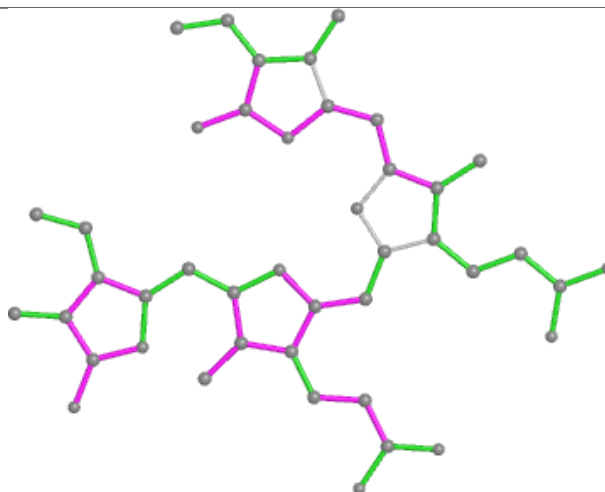
Rings



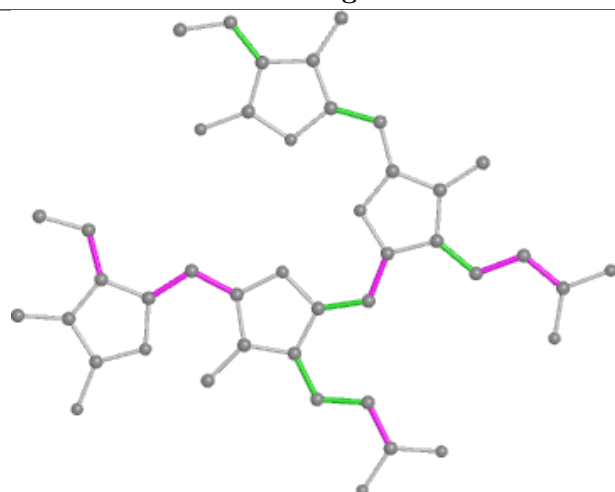
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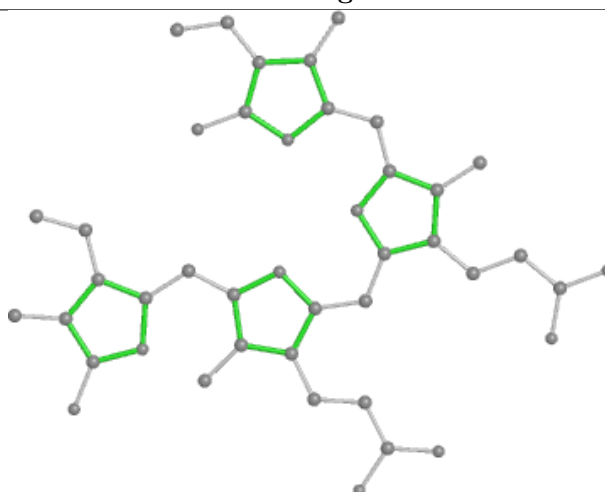
Bond lengths



Bond angles

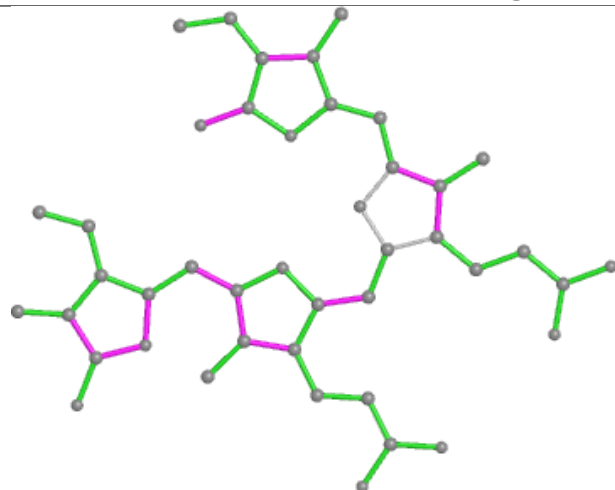


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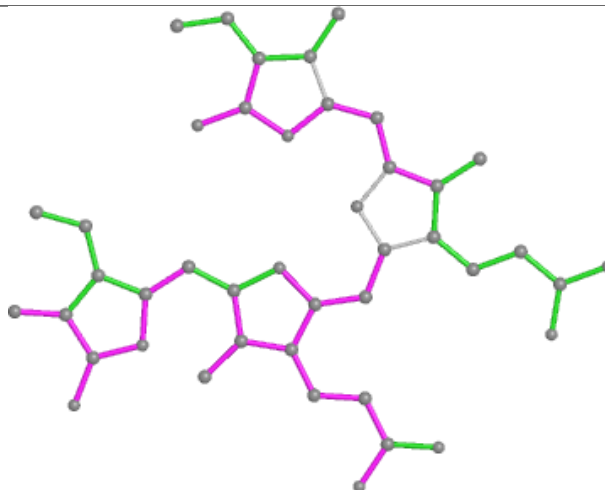


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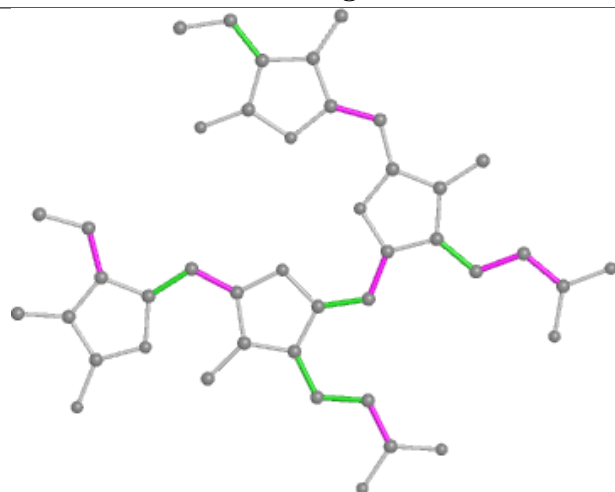
Ligand PEB iM 203



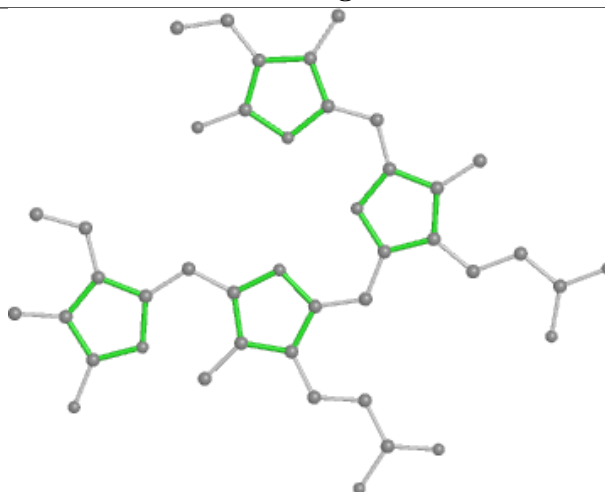
Bond lengths



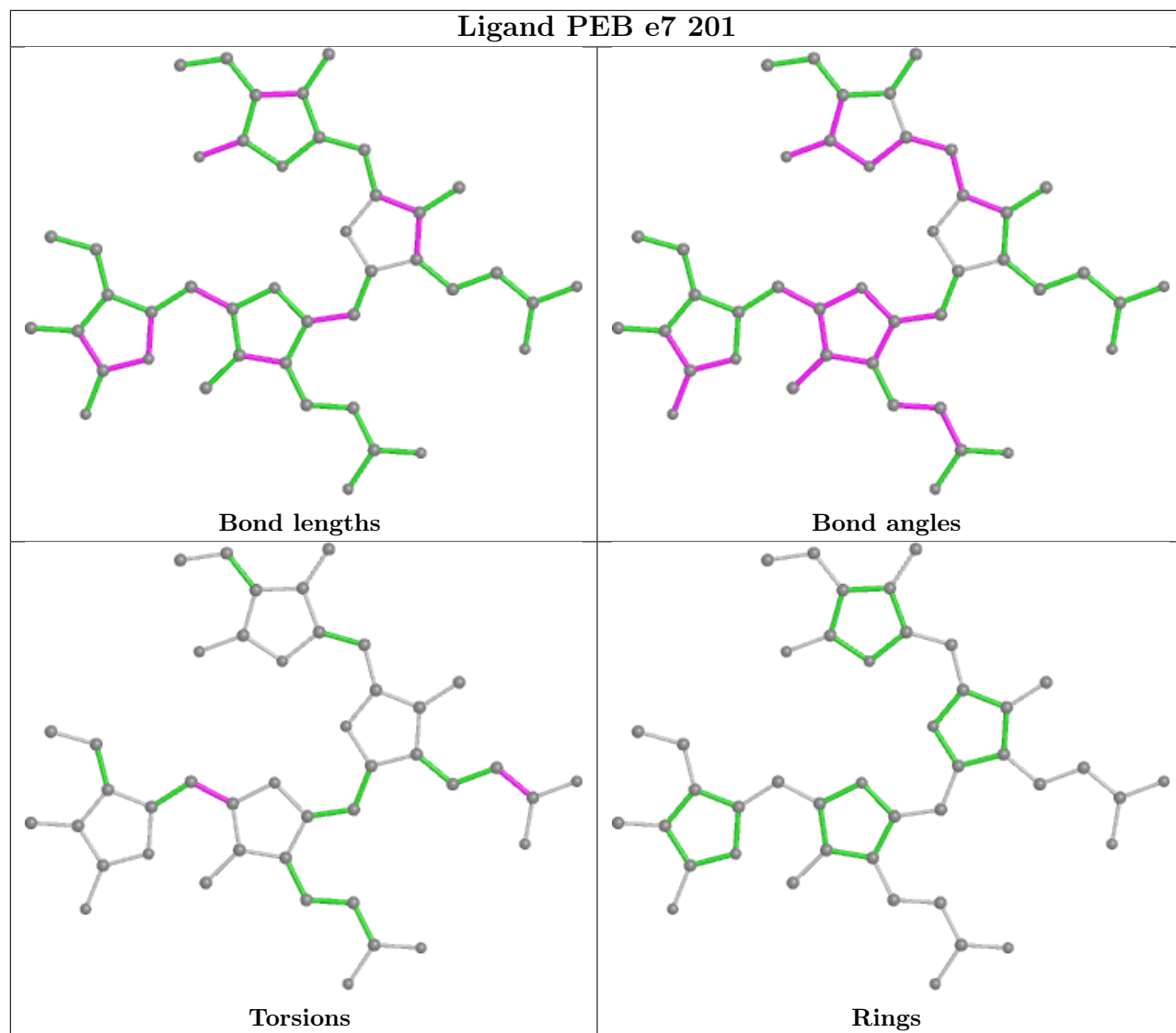
Bond angles



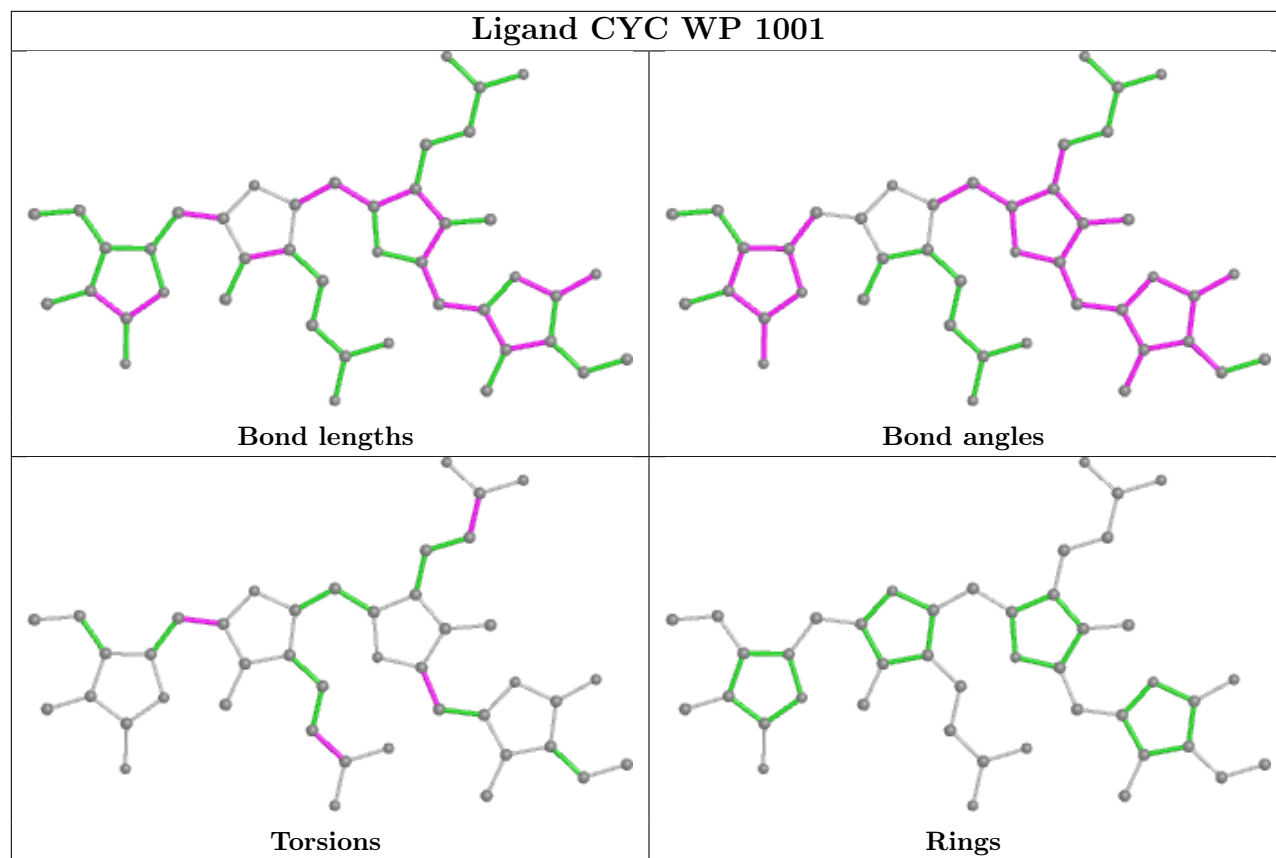
Torsions



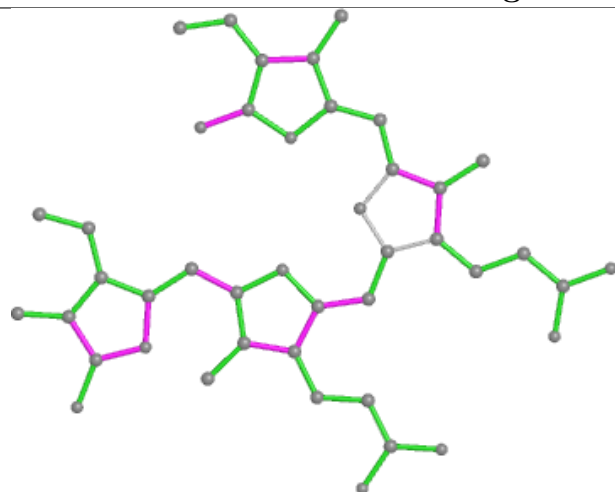
Rings



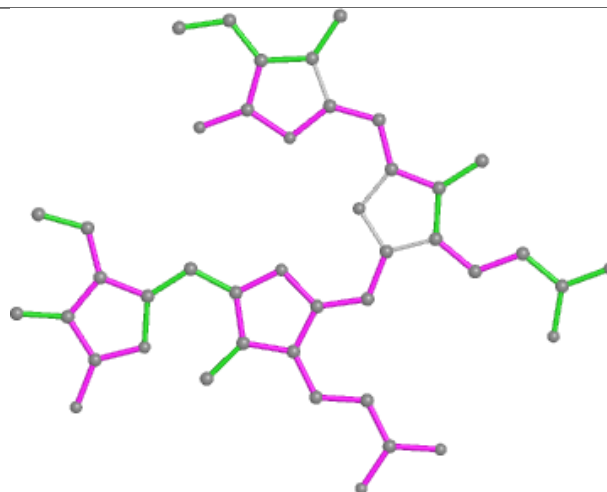
Ligand CYC WP 1001



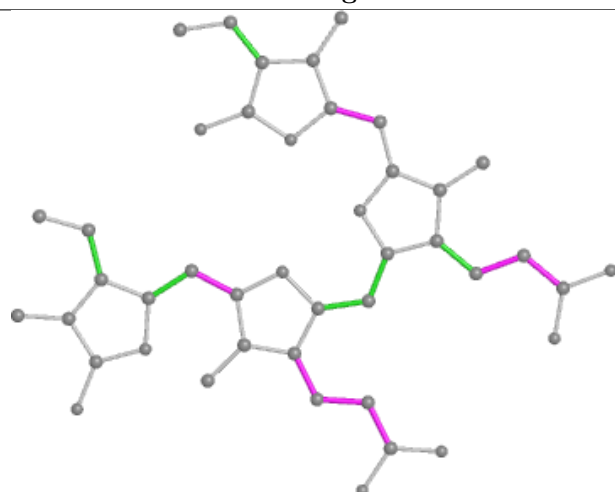
Ligand PEB DA 201



Bond lengths



Bond angles

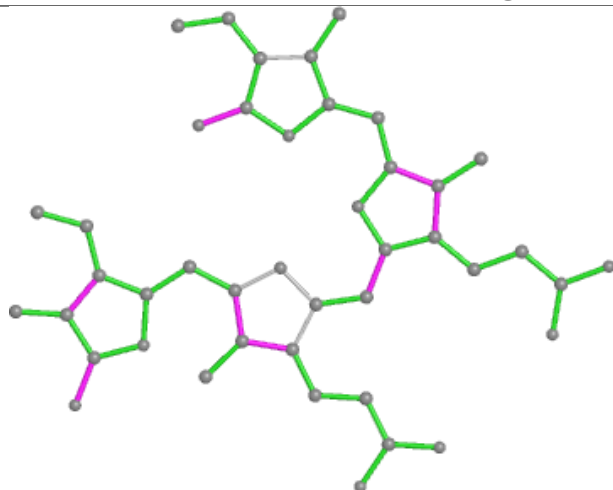


Torsions

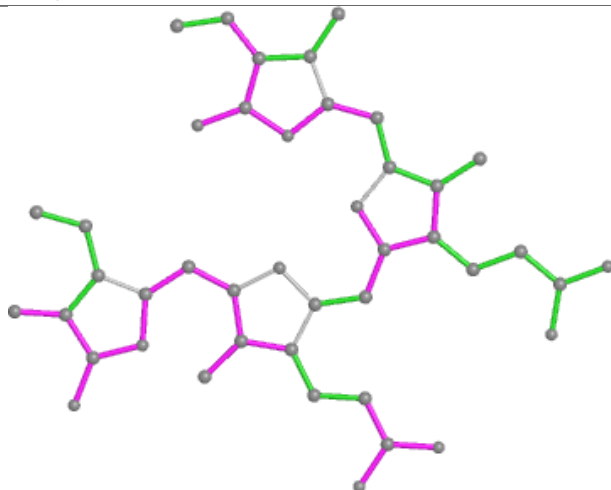


Rings

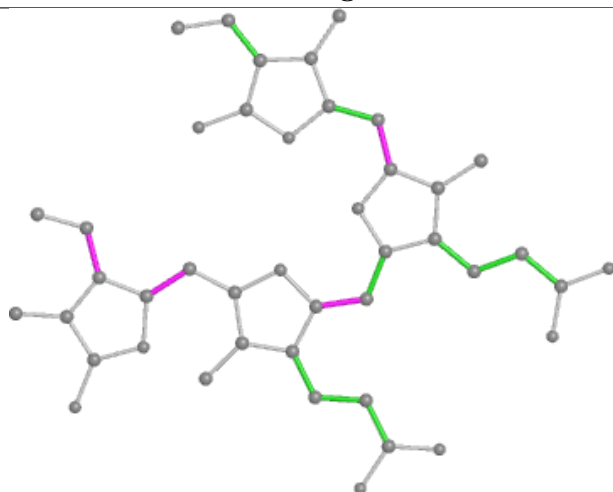
Ligand PUB QB 201



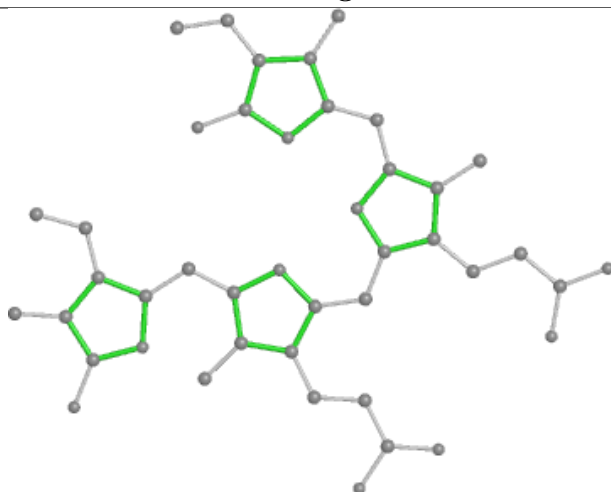
Bond lengths



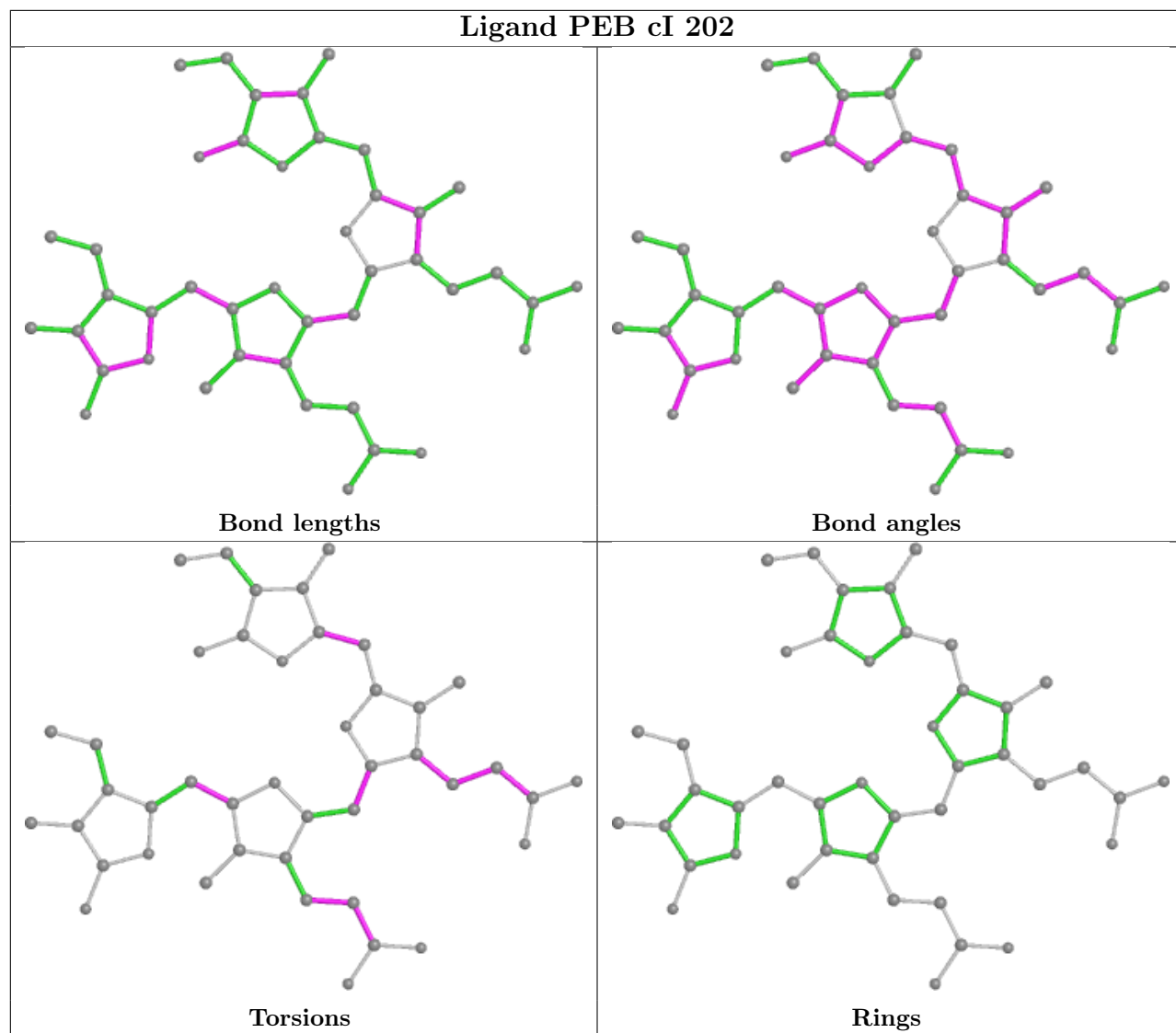
Bond angles



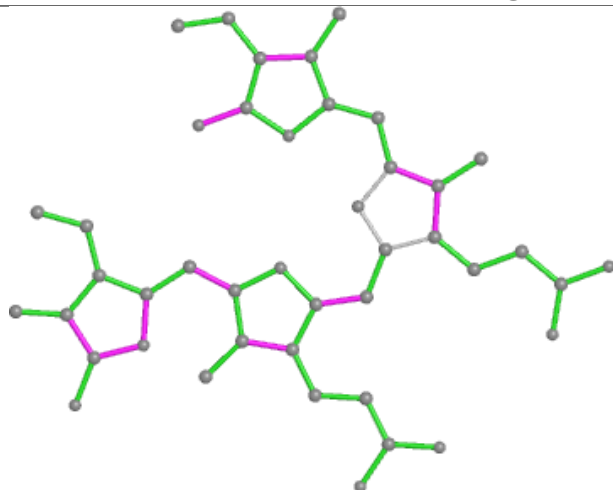
Torsions



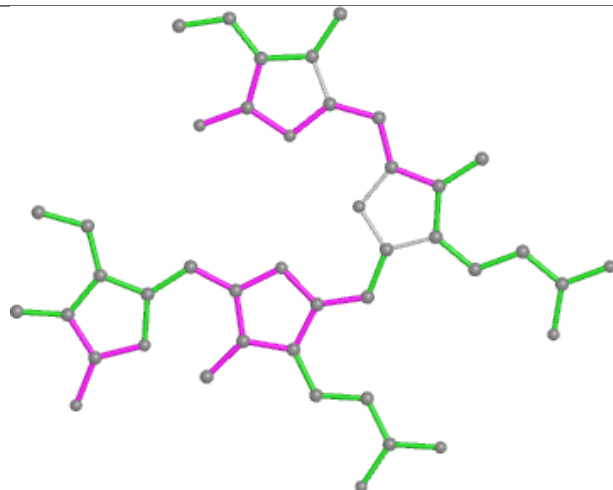
Rings



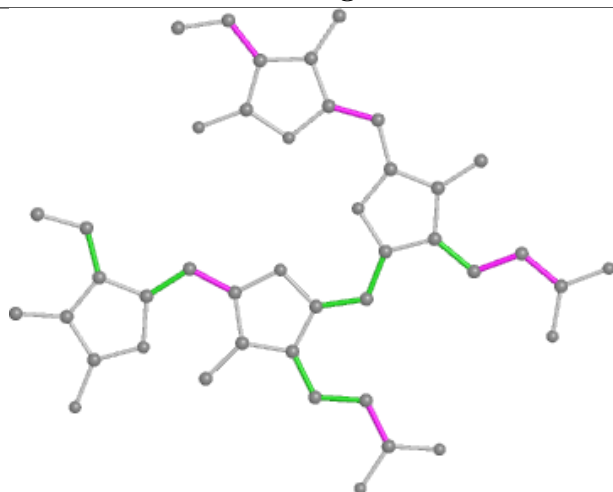
Ligand PEB N3 202



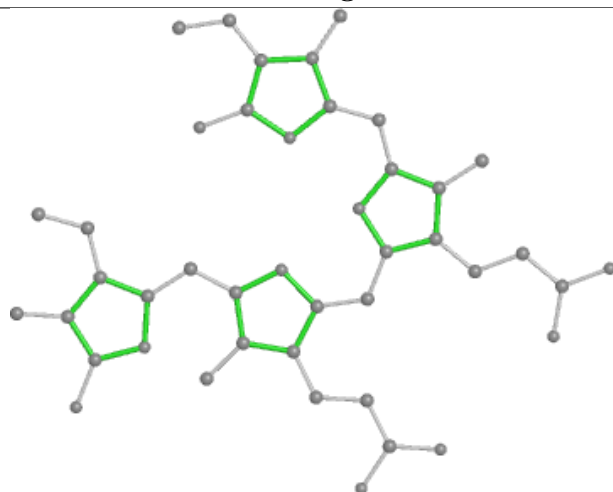
Bond lengths



Bond angles

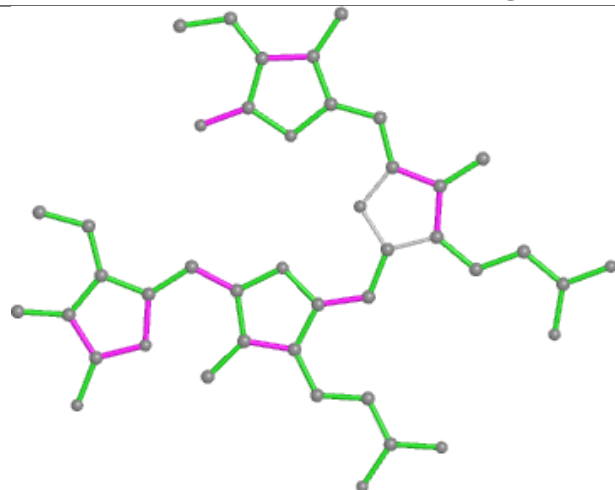


Torsions

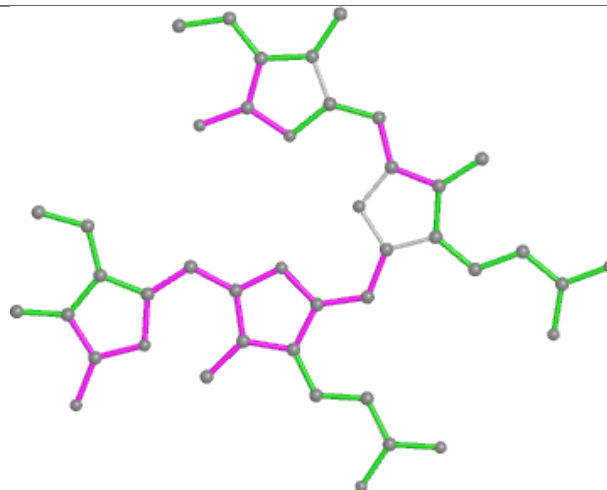


Rings

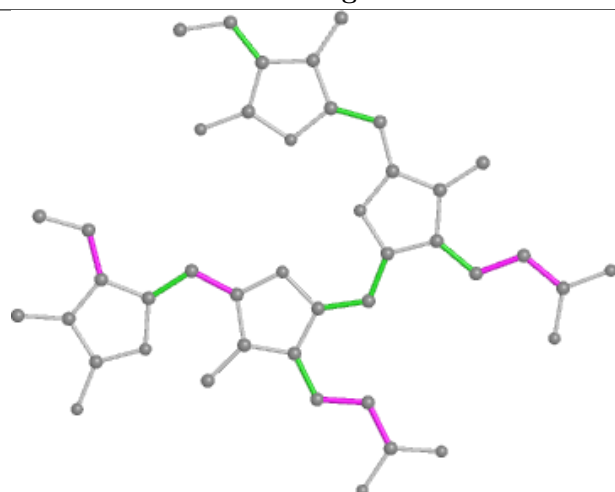
Ligand PEB UK 203



Bond lengths



Bond angles

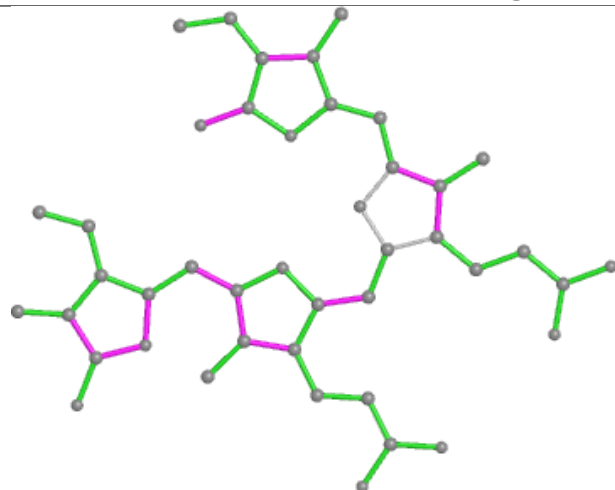


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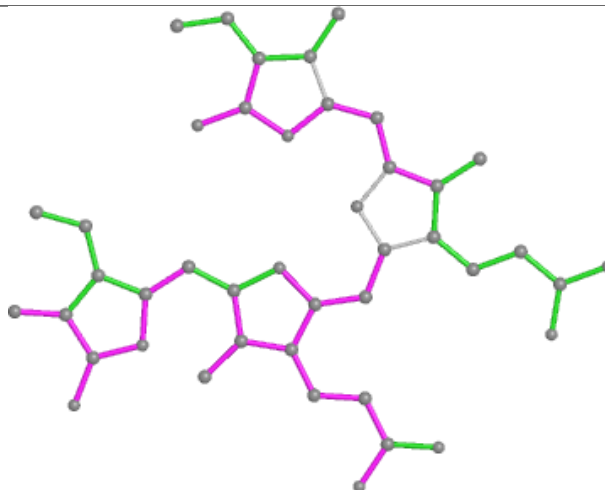


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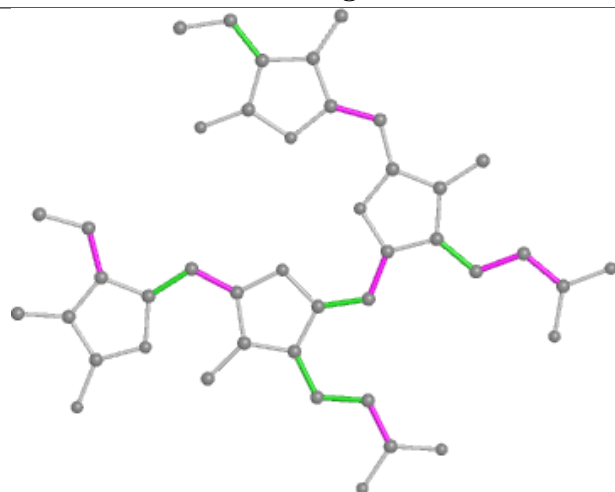
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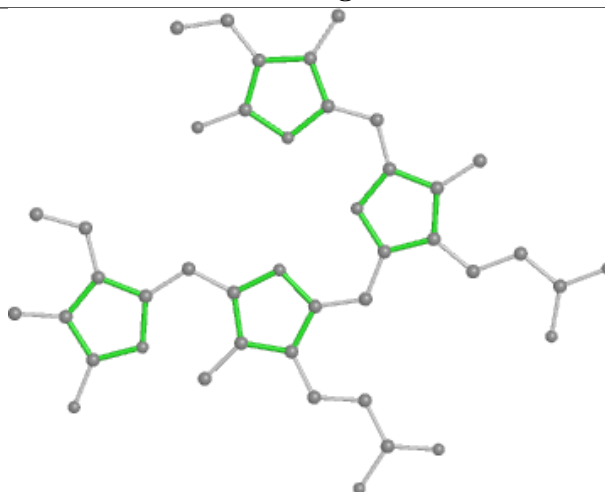
Bond lengths



Bond angles

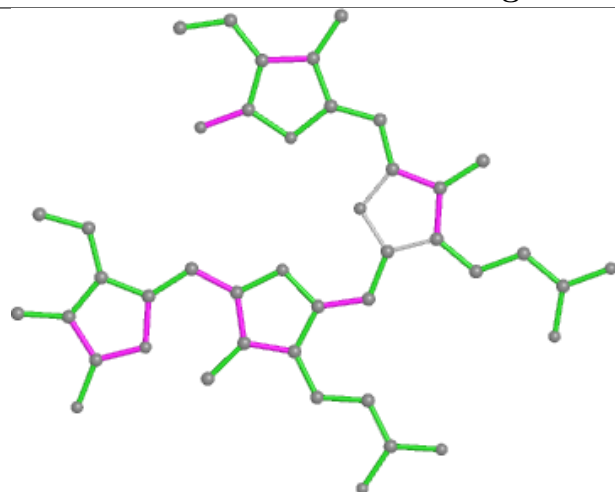


Torsions

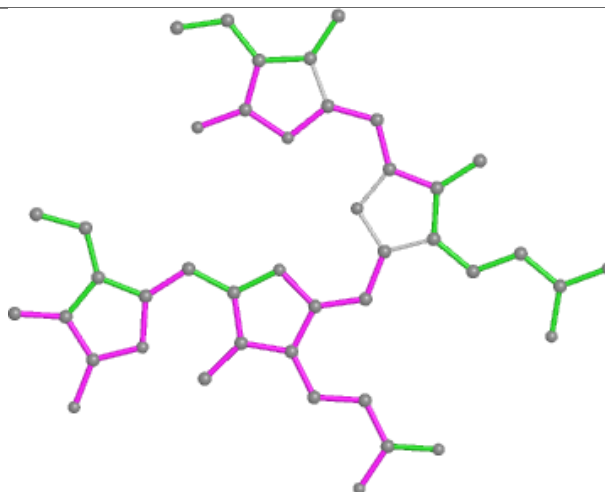


Rings

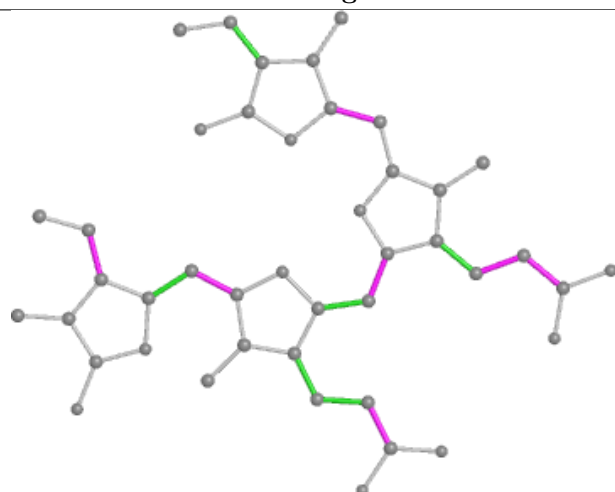
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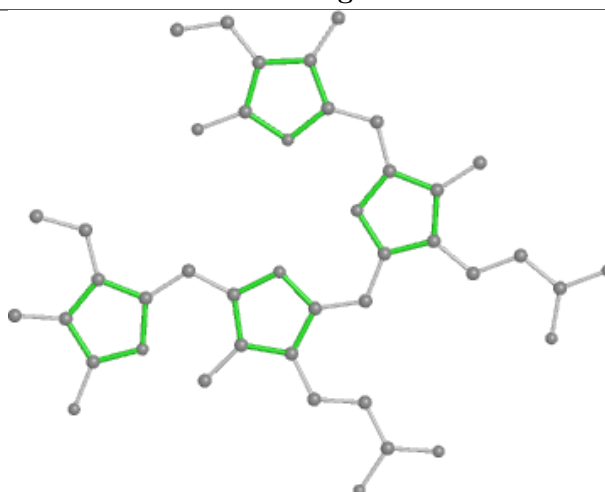
Bond lengths



Bond angles

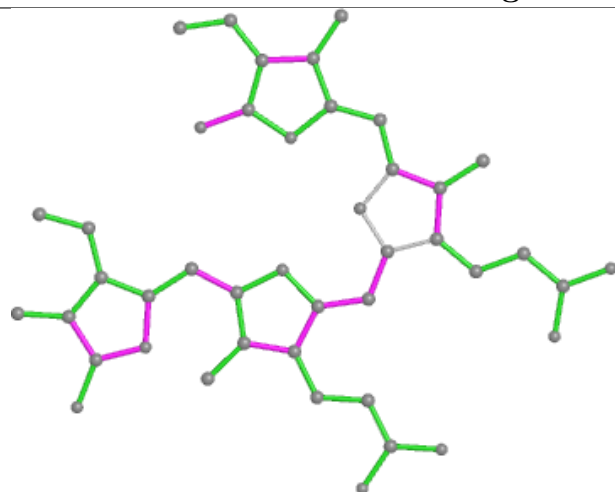


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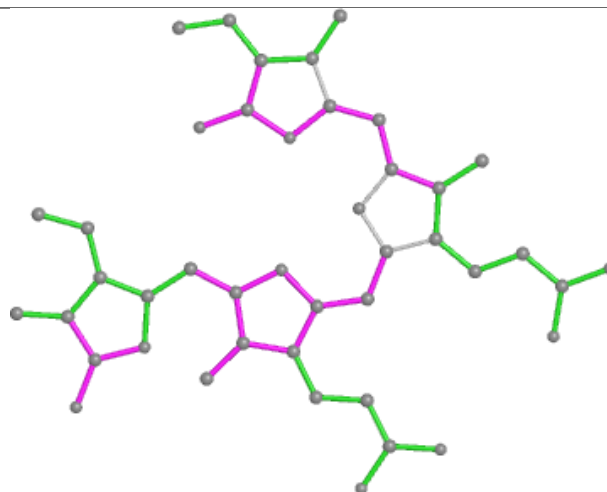


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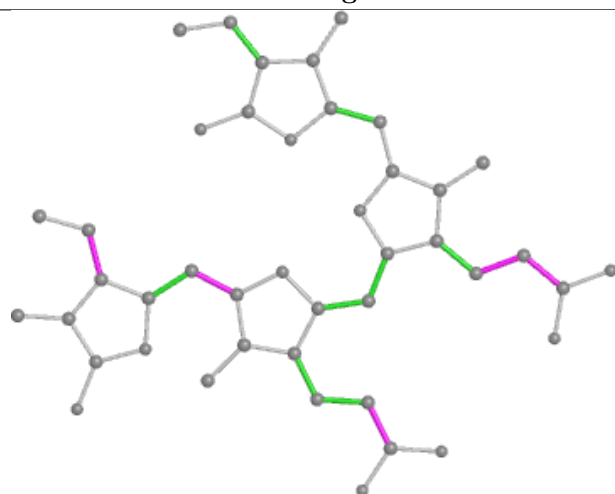
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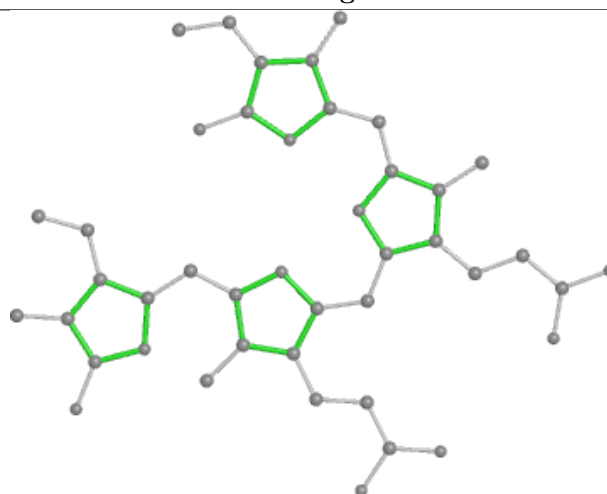
Bond lengths



Bond angles

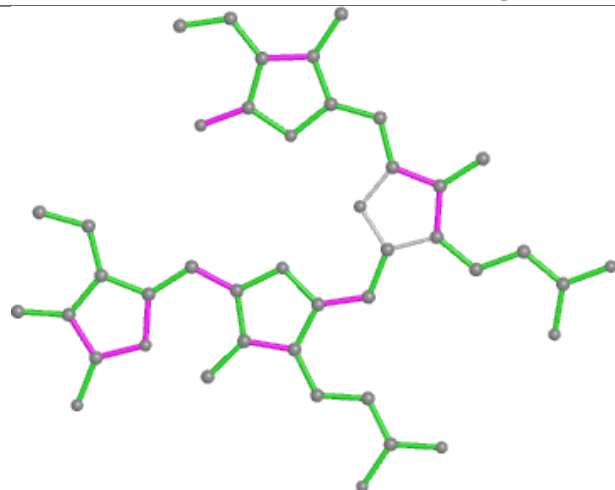


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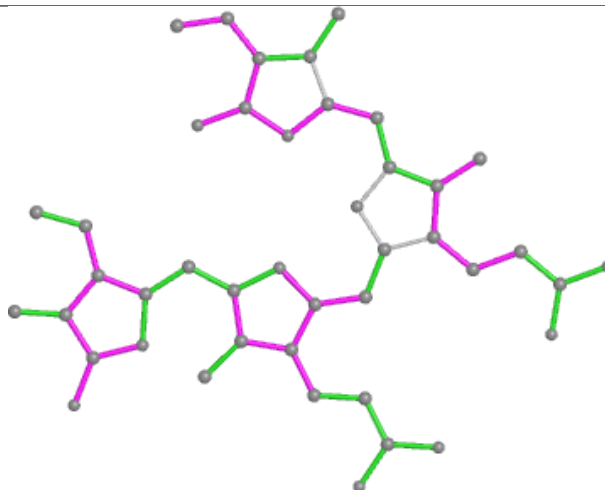


Rings

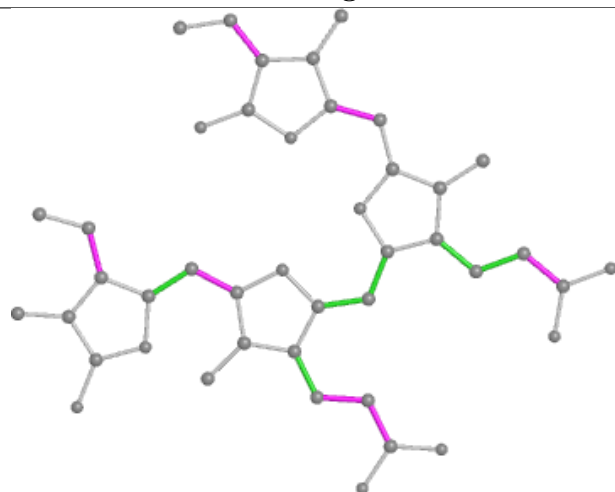
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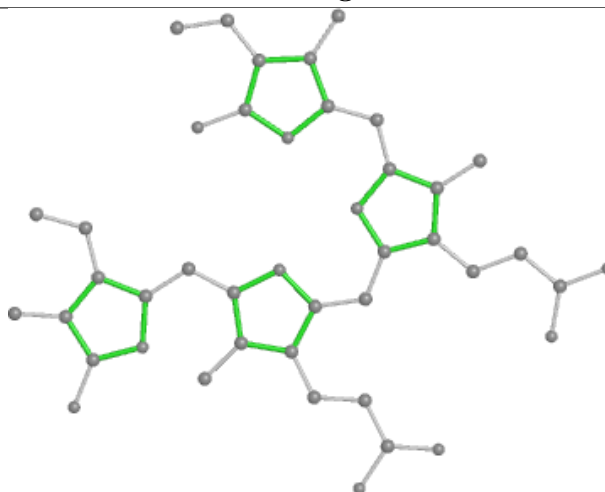
Bond lengths



Bond angles

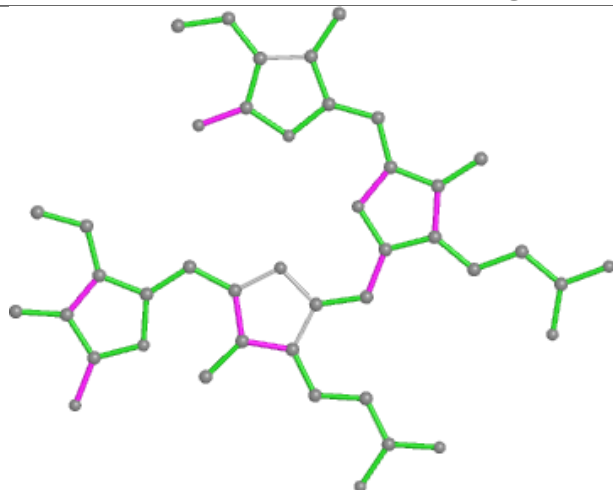


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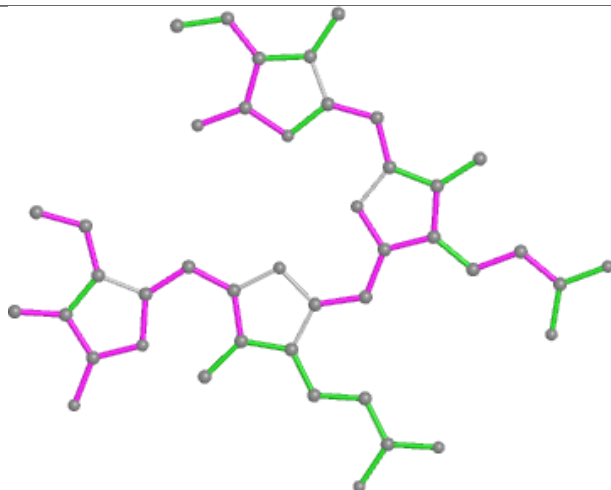


Rings

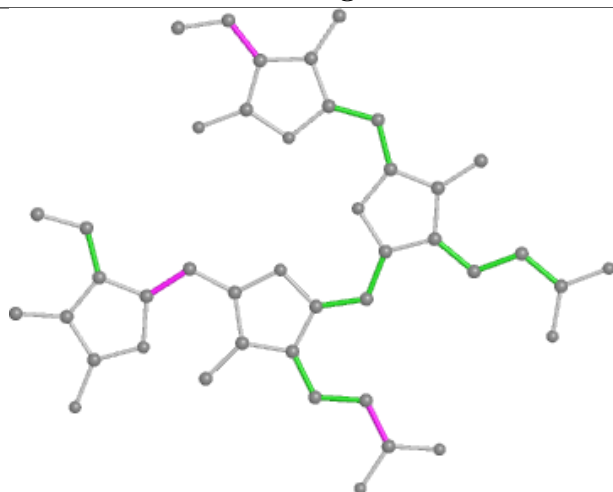
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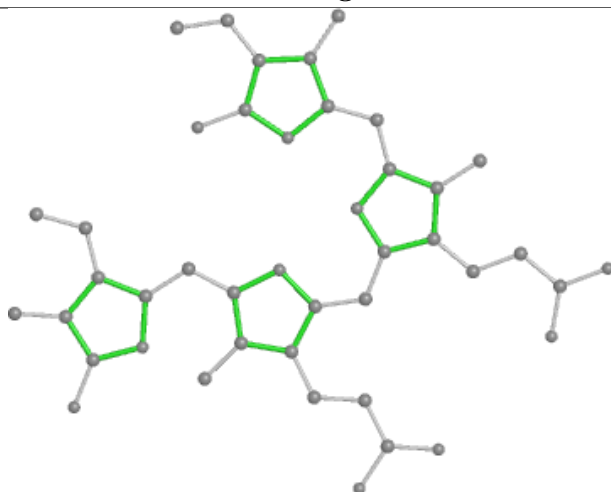
Bond lengths



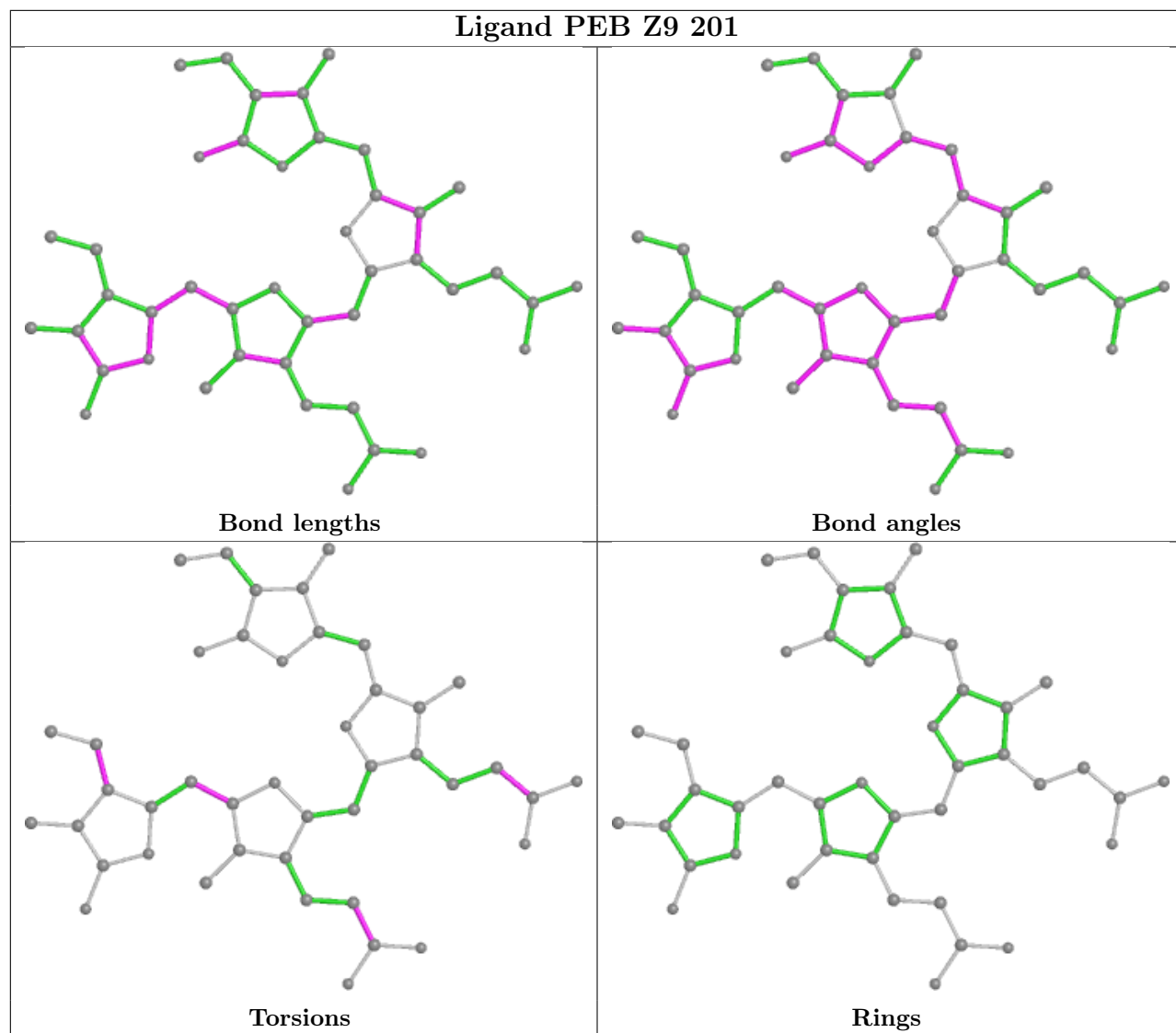
Bond angles



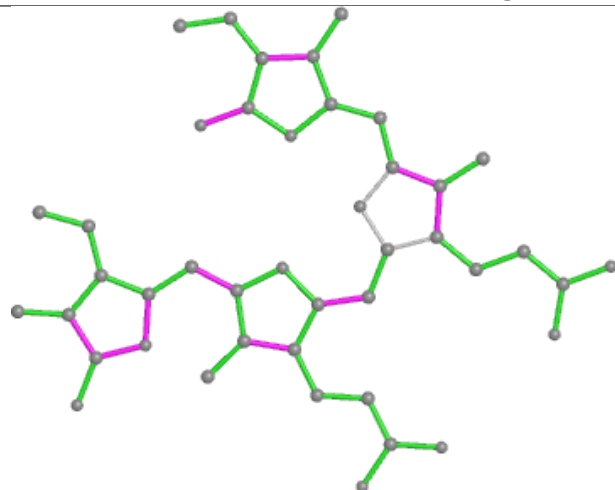
Torsions



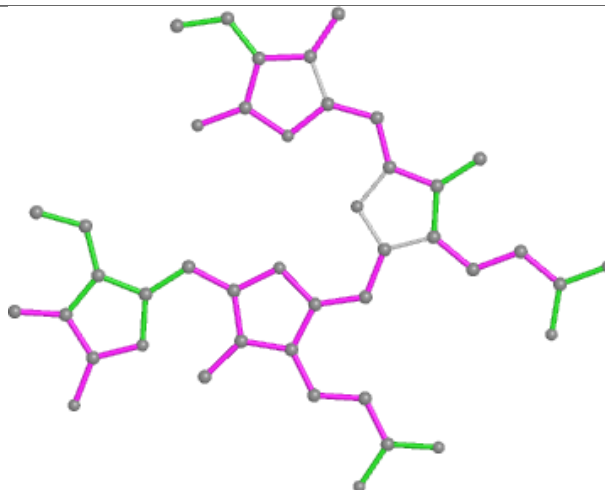
Rings



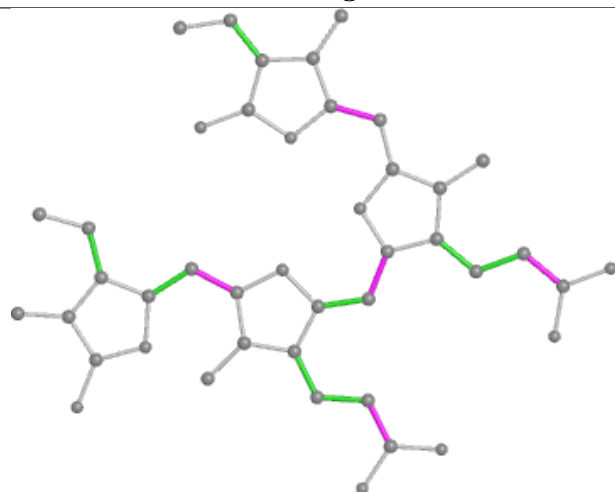
Ligand PEB MG 404



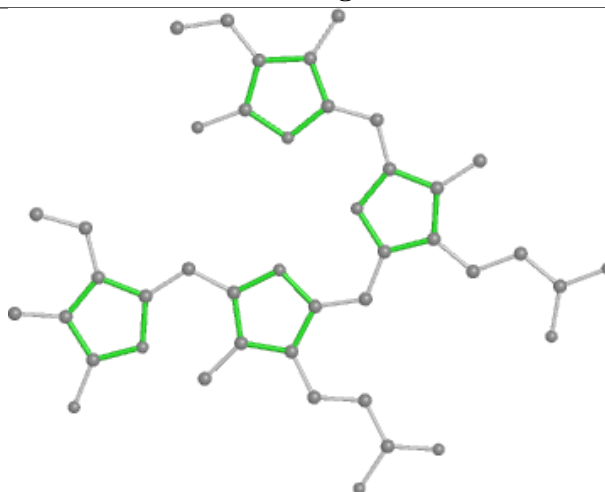
Bond lengths



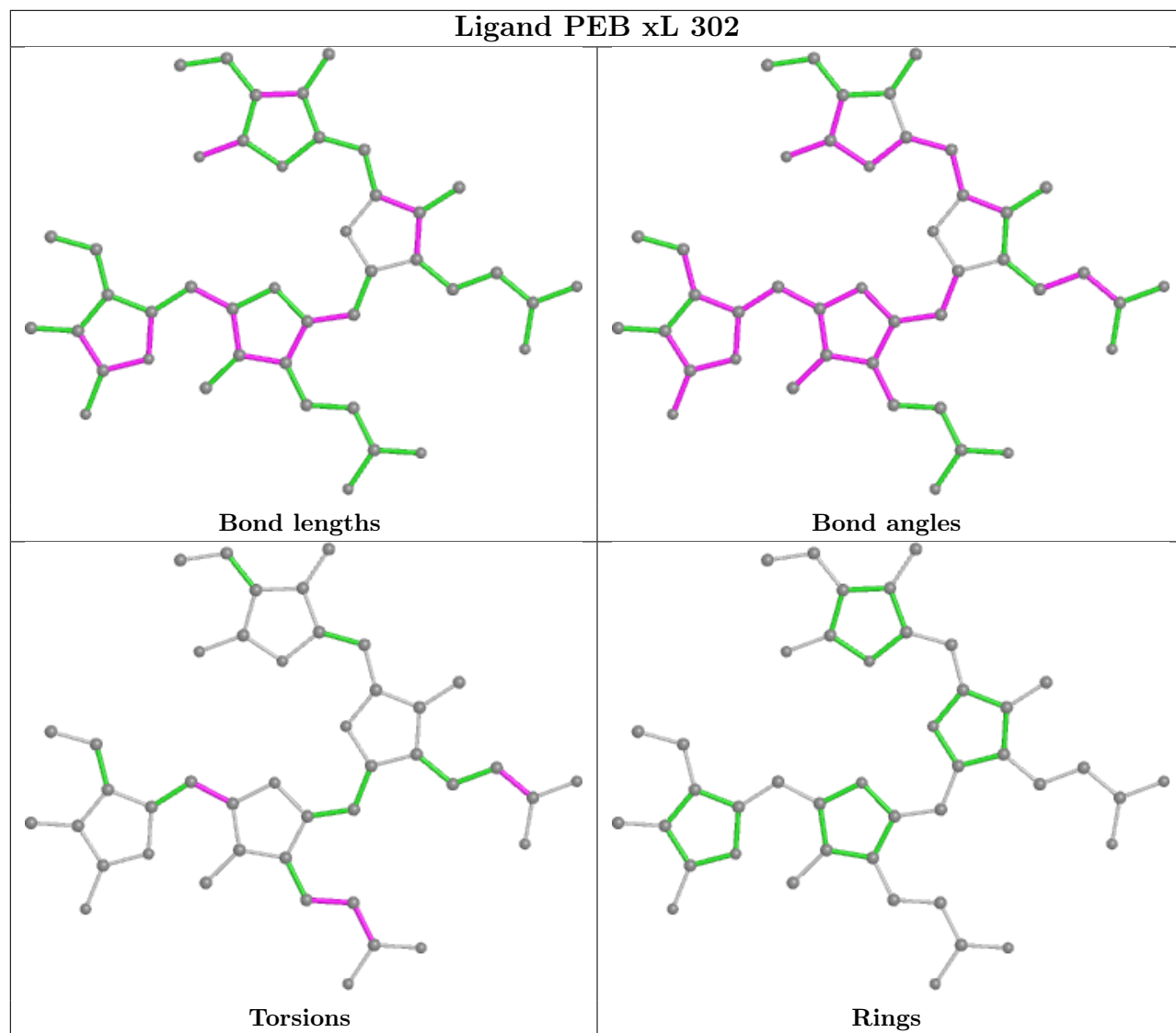
Bond angles



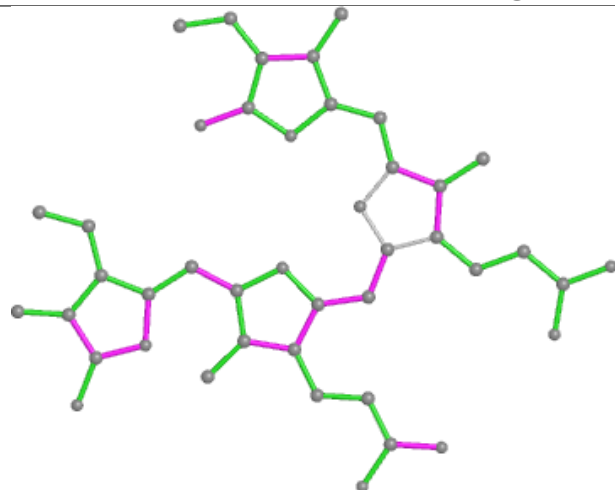
Torsions



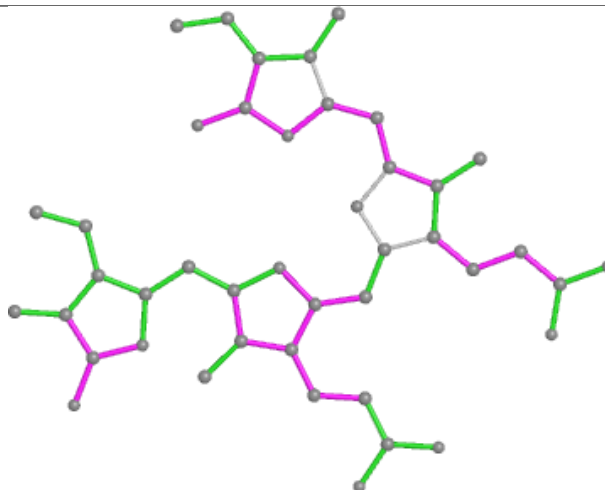
Rings



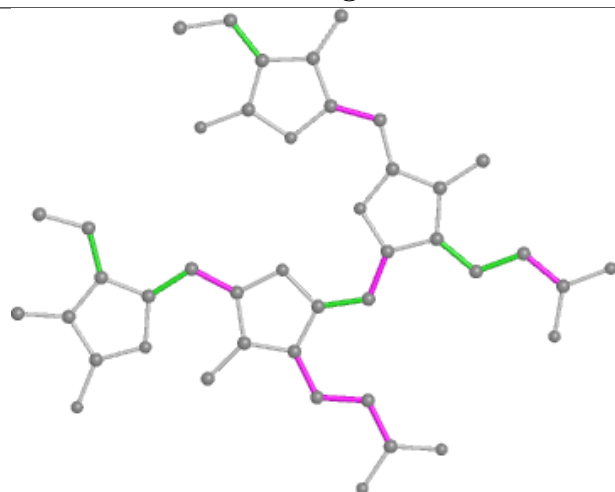
Ligand PEB P9 203



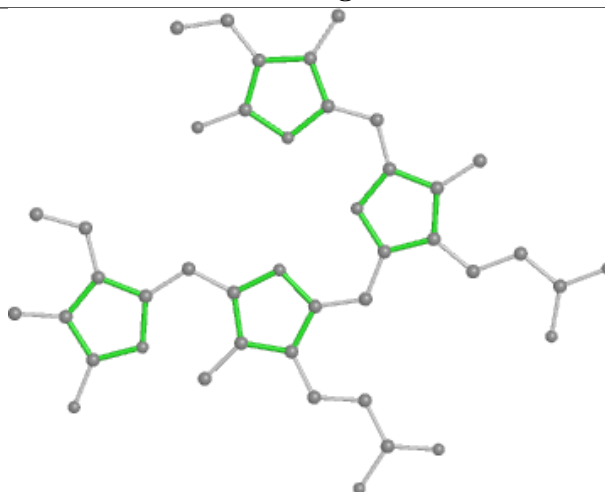
Bond lengths



Bond angles

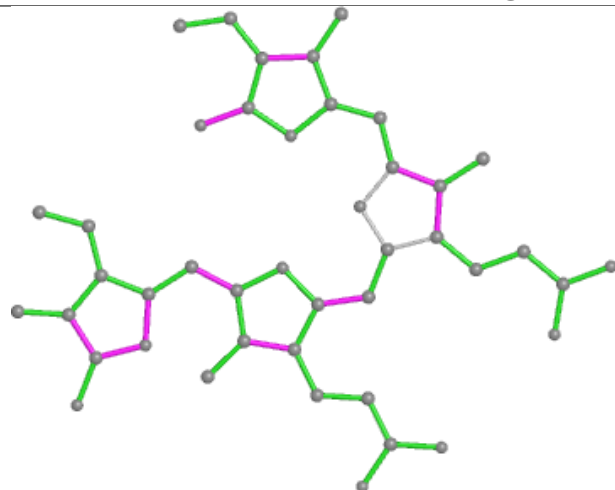


Torsions

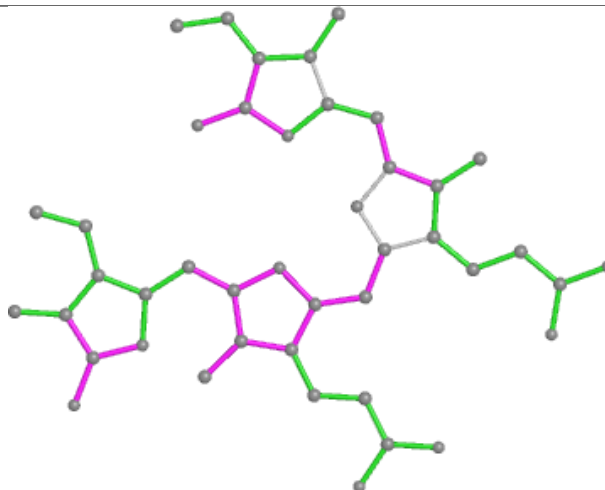


Rings

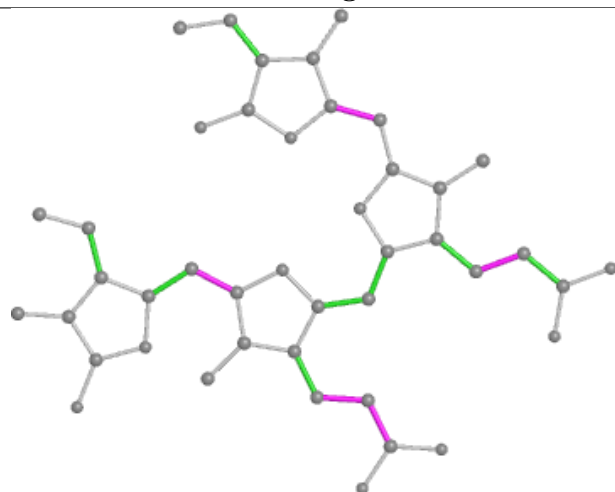
Ligand PEB KG 201



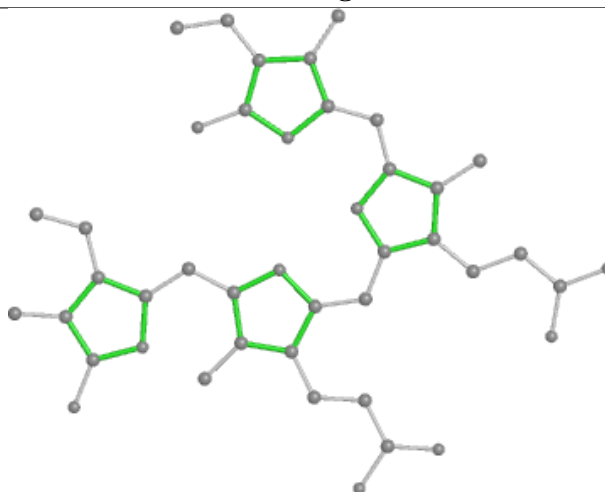
Bond lengths



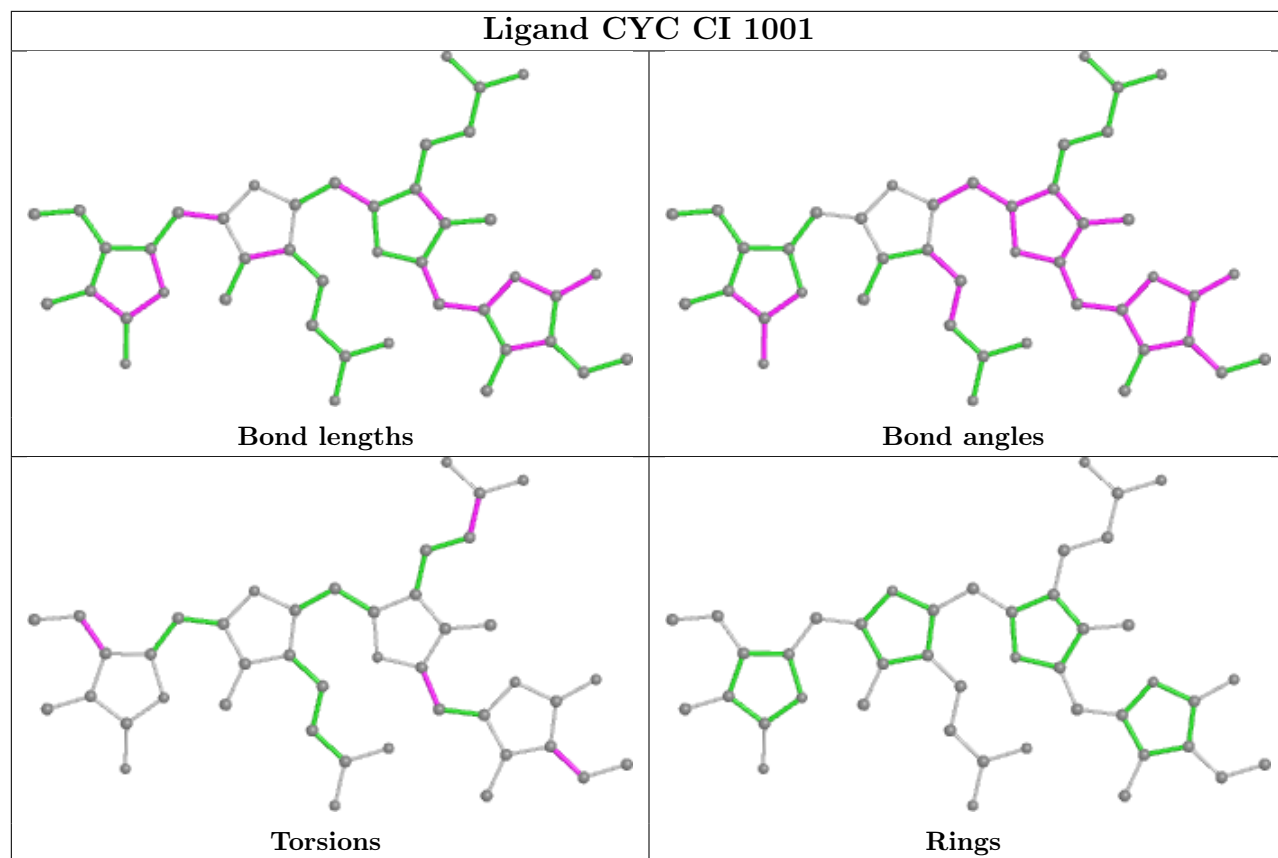
Bond angles



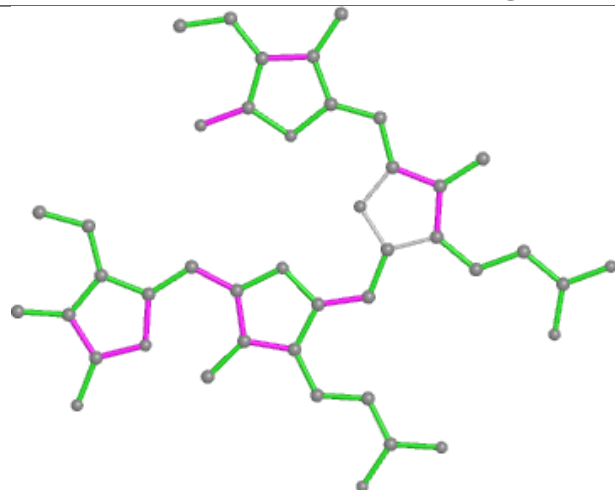
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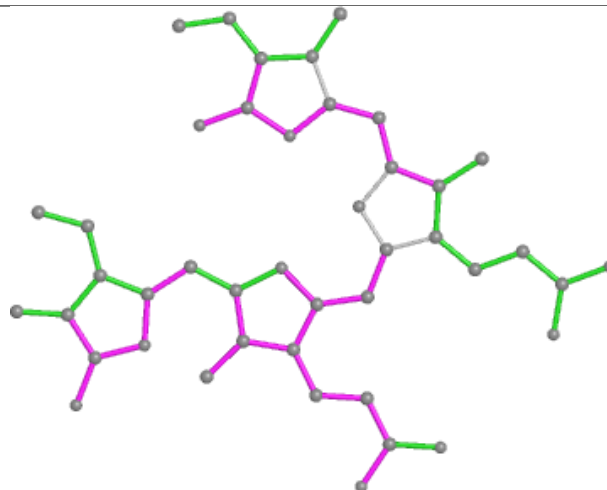
Rings



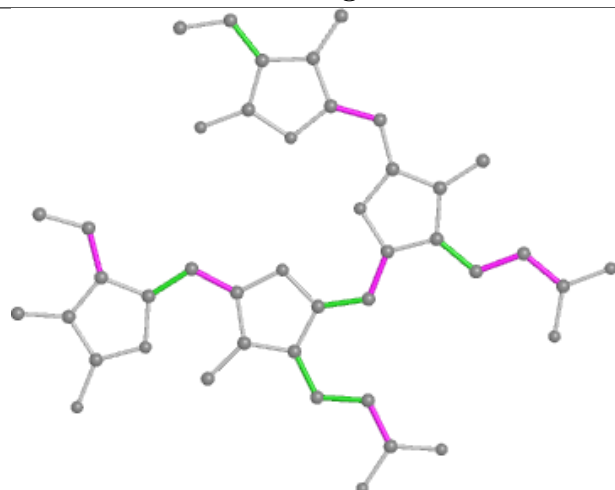
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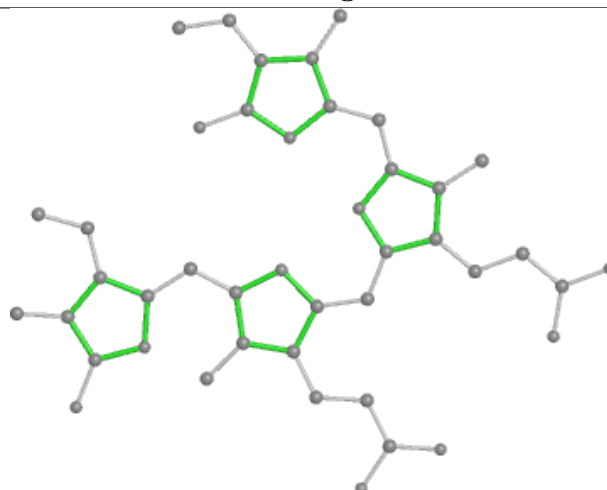
Bond lengths



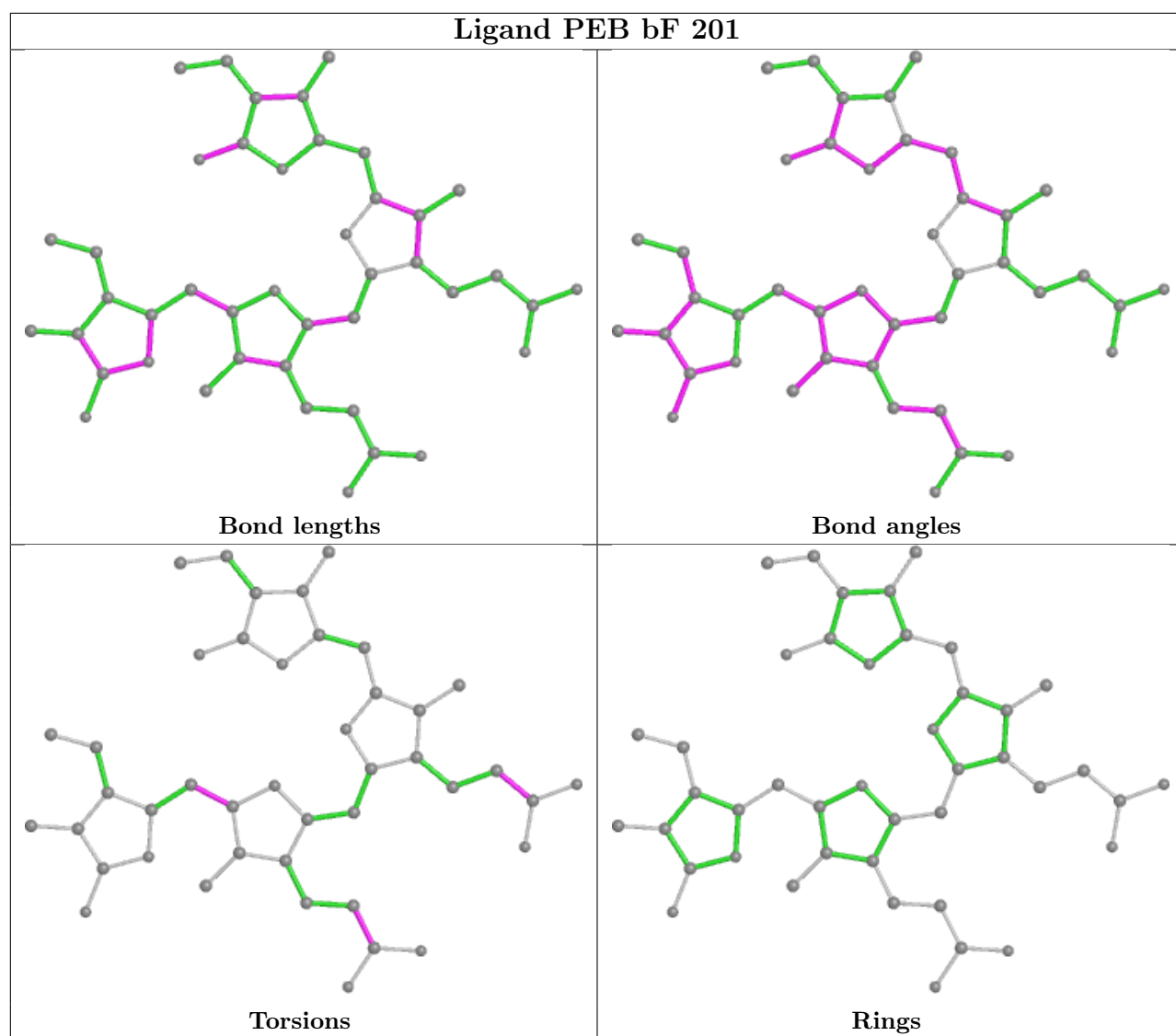
Bond angles

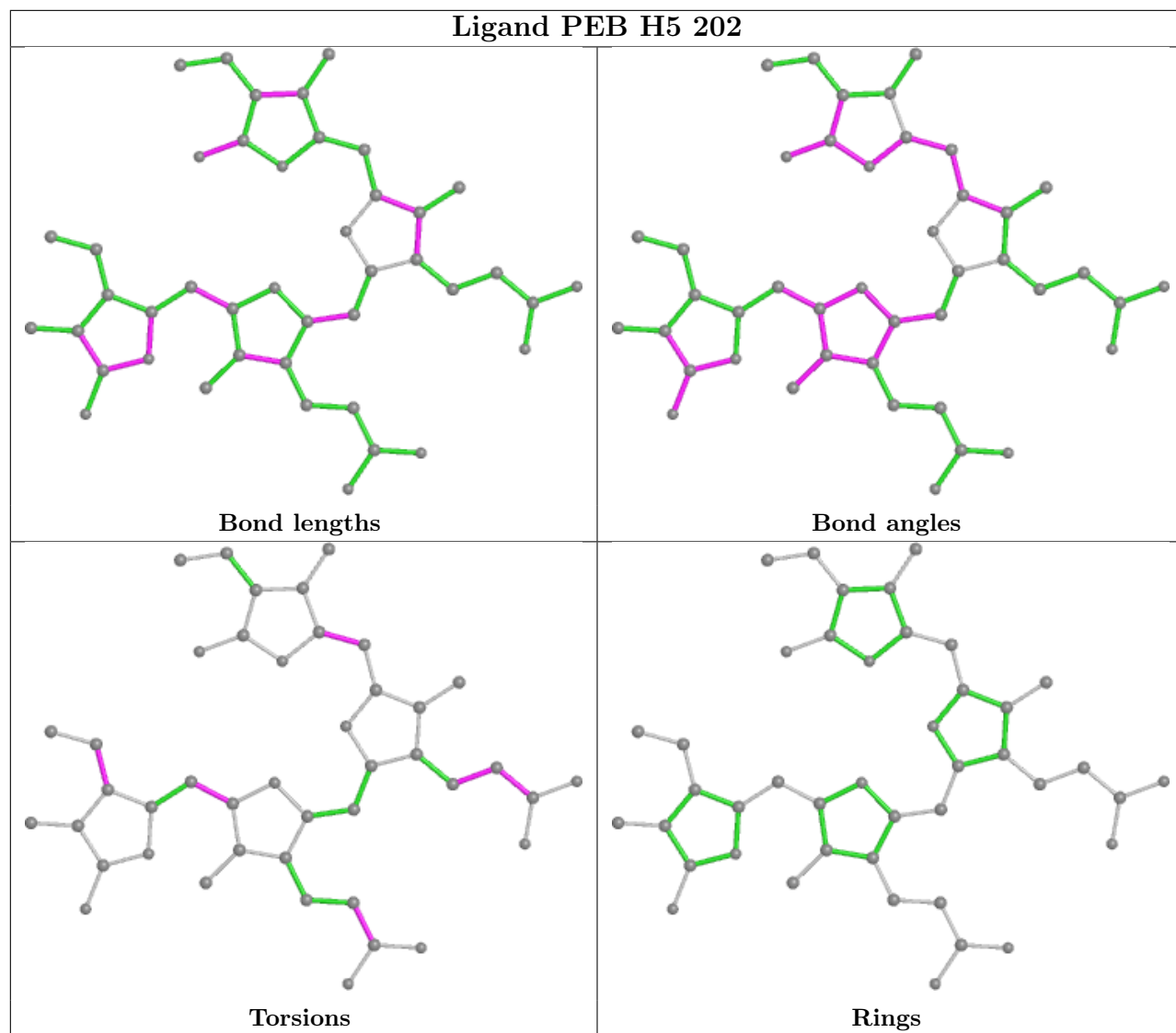


Torsions

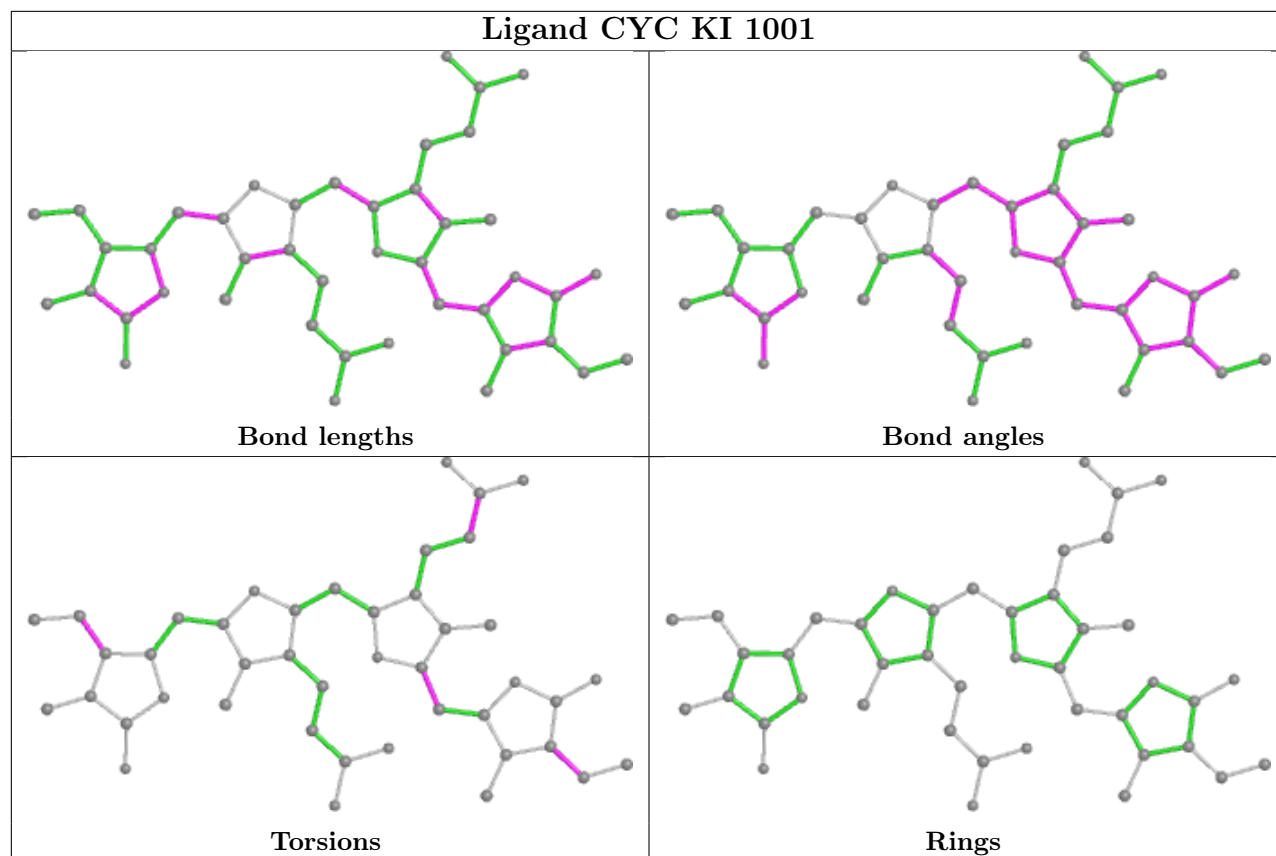


Rings

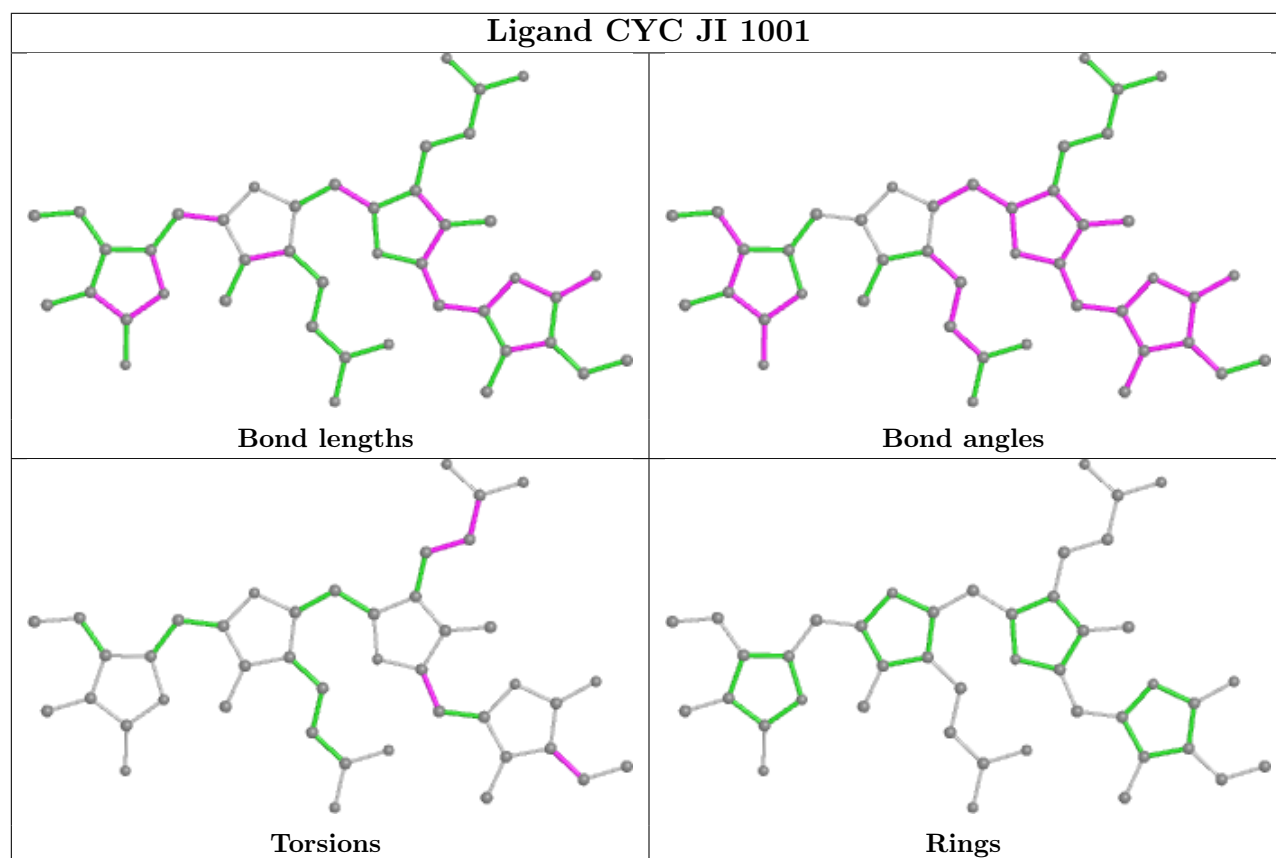


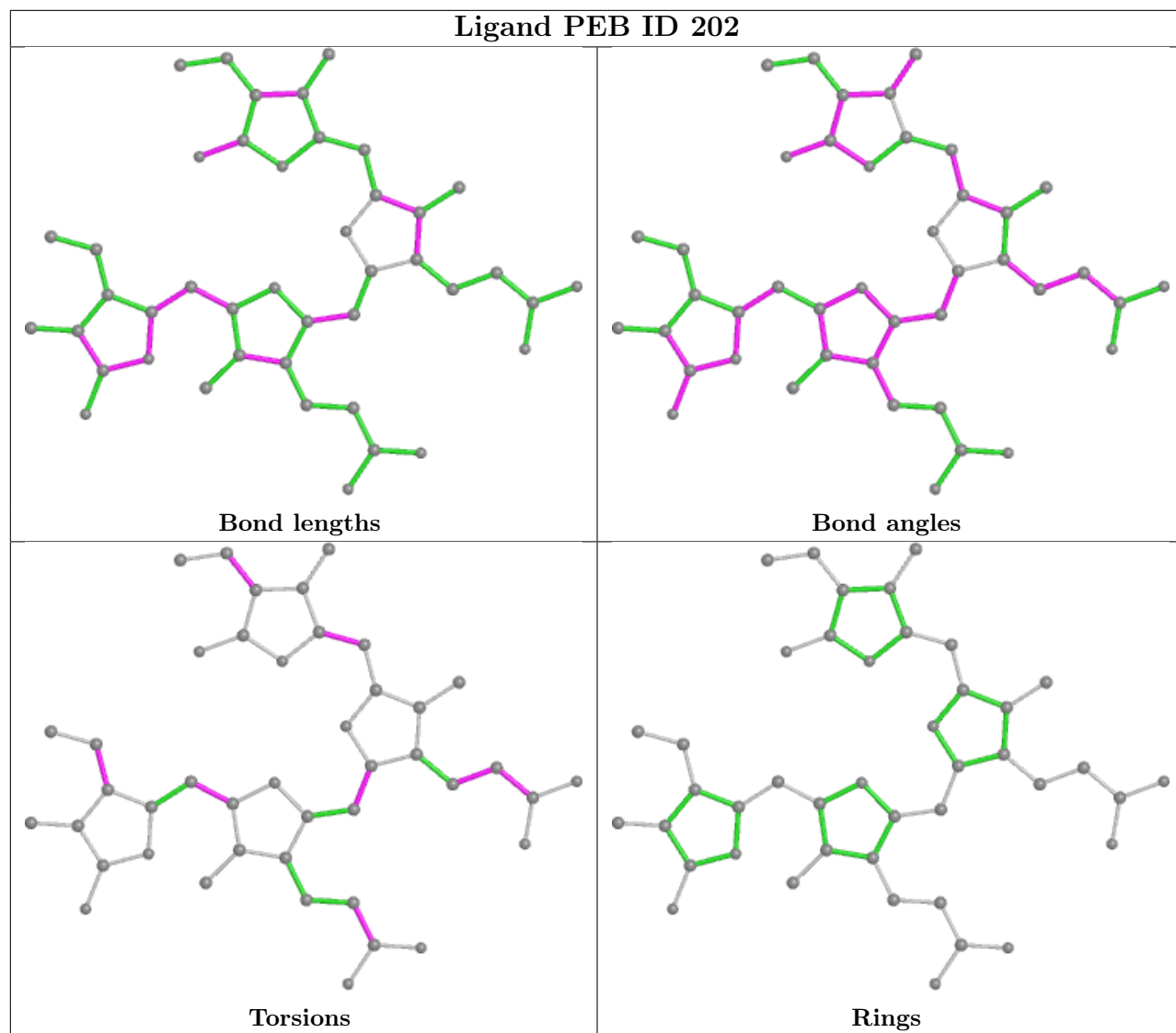


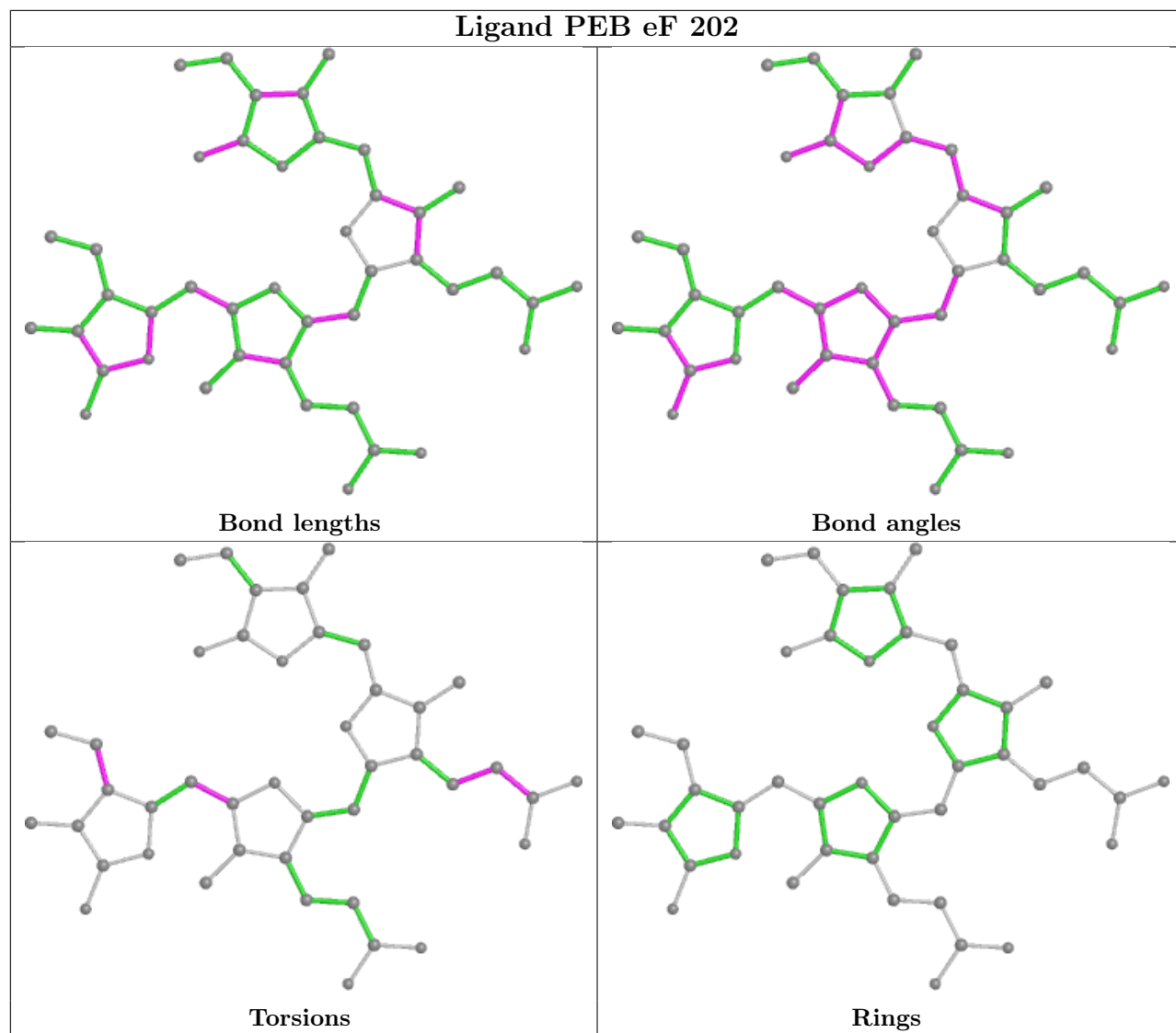
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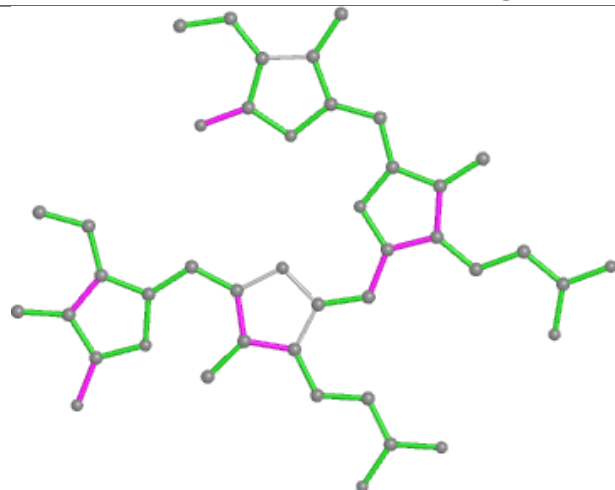
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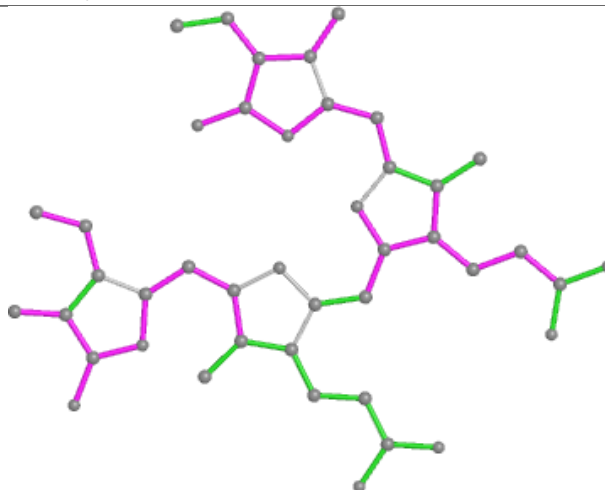




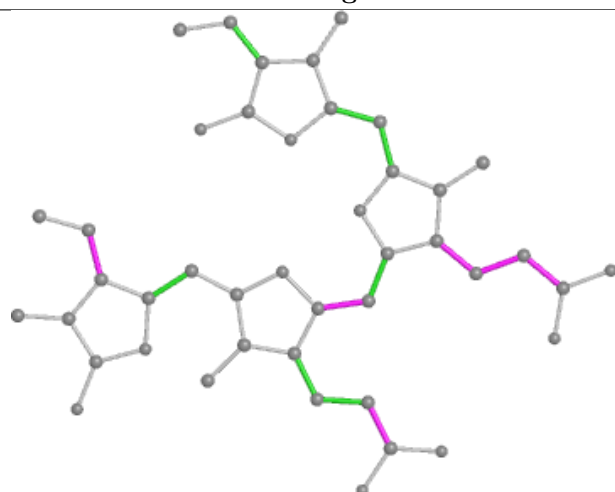
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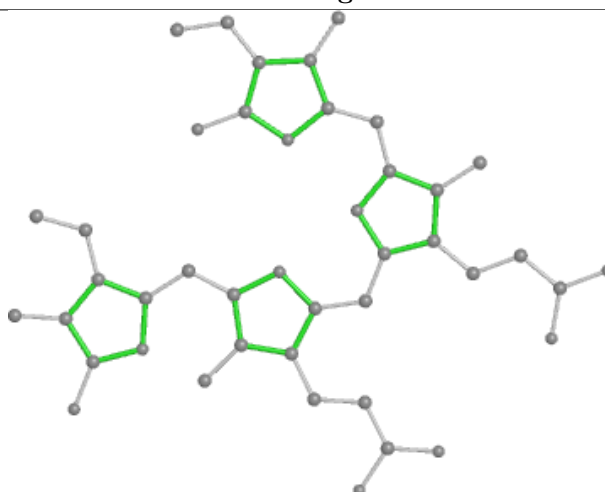
Bond lengths



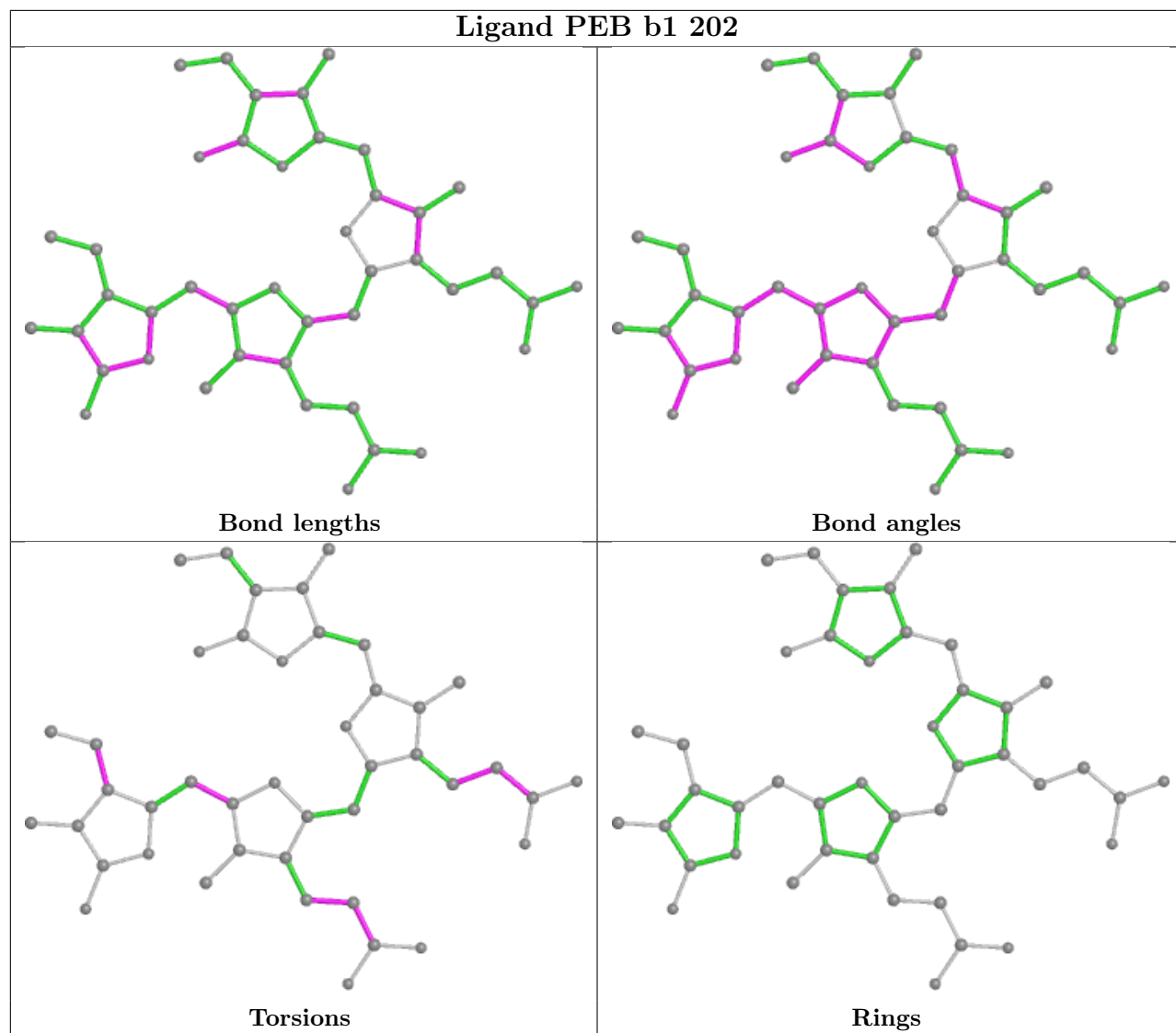
Bond angles



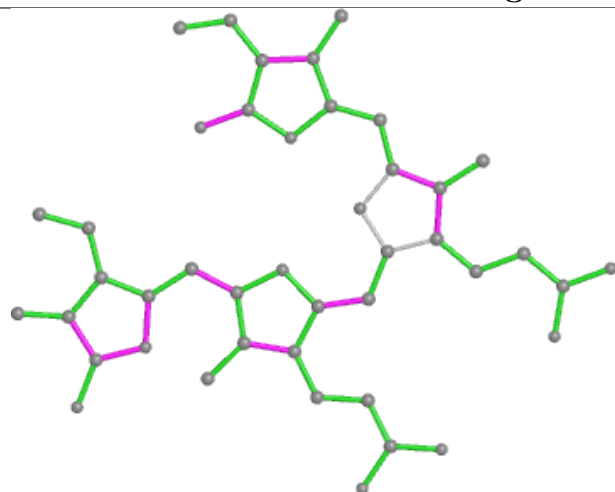
Torsions



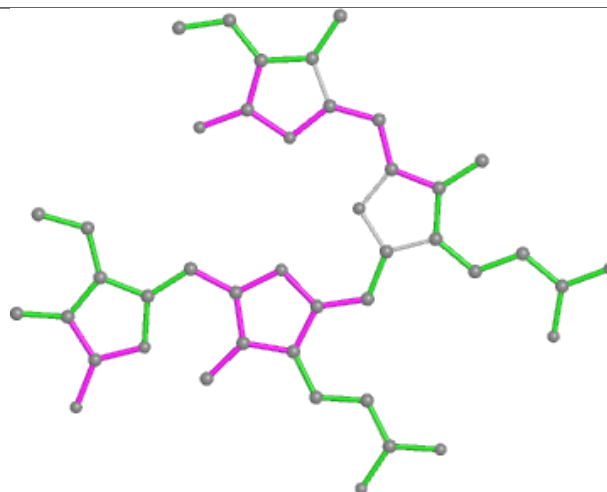
Rings



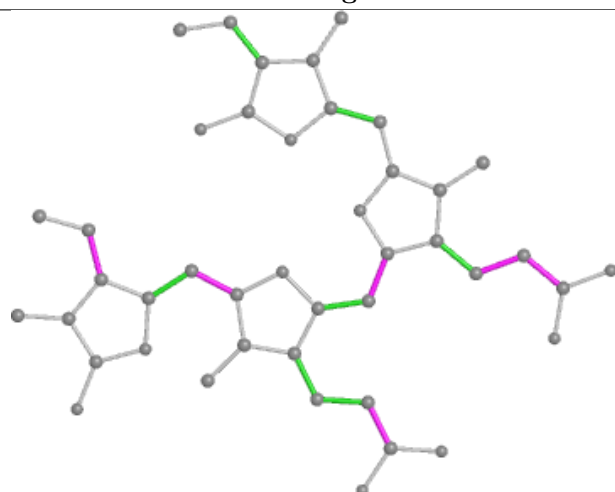
Ligand PEB OL 202



Bond lengths



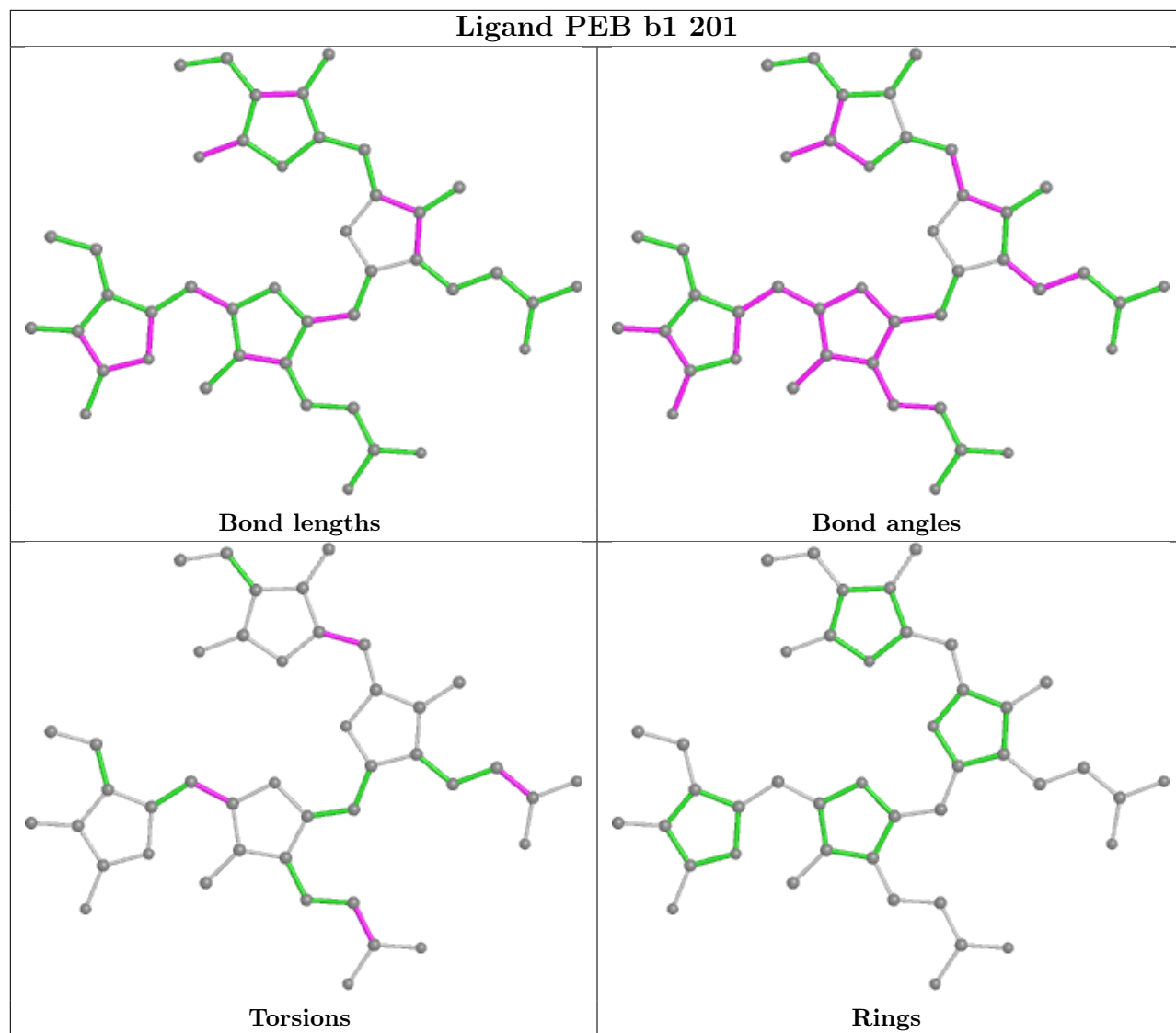
Bond angles



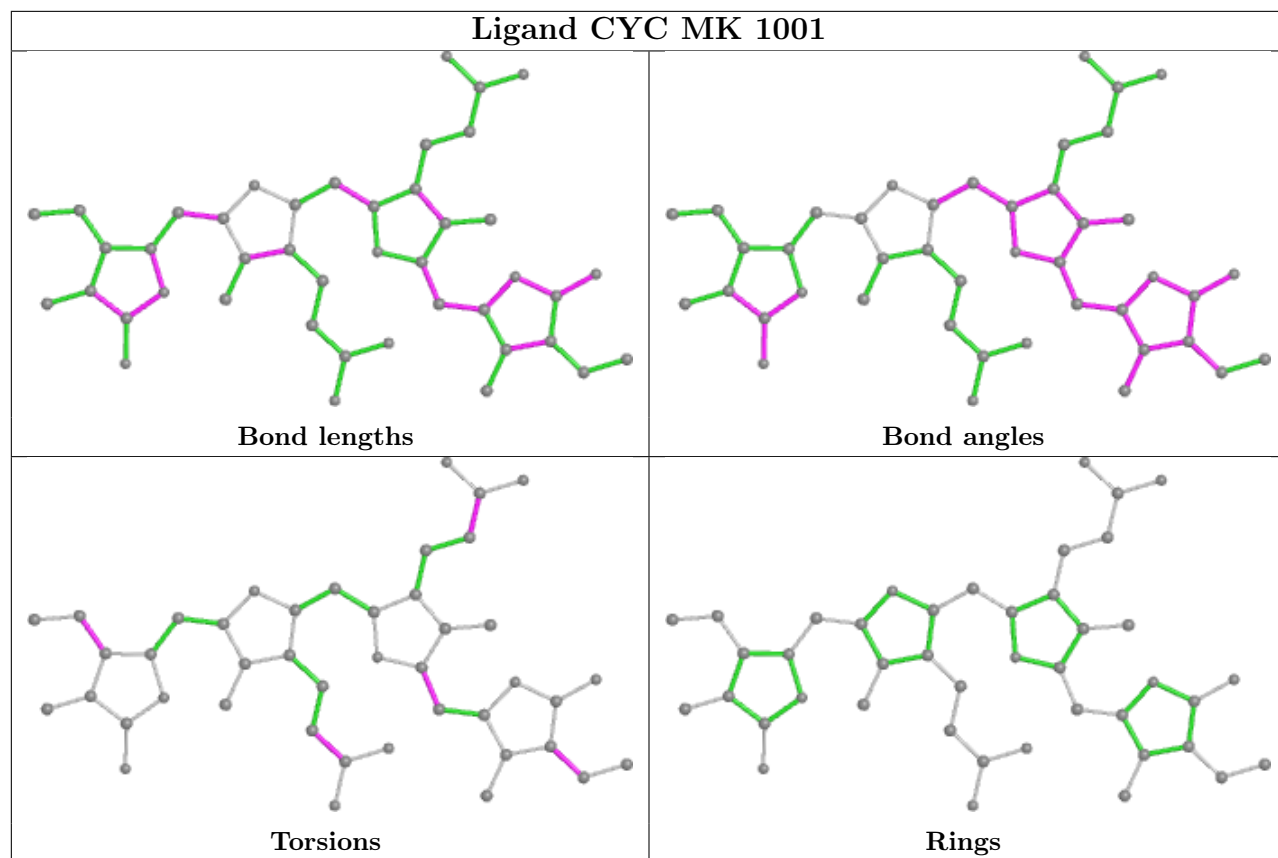
Torsions



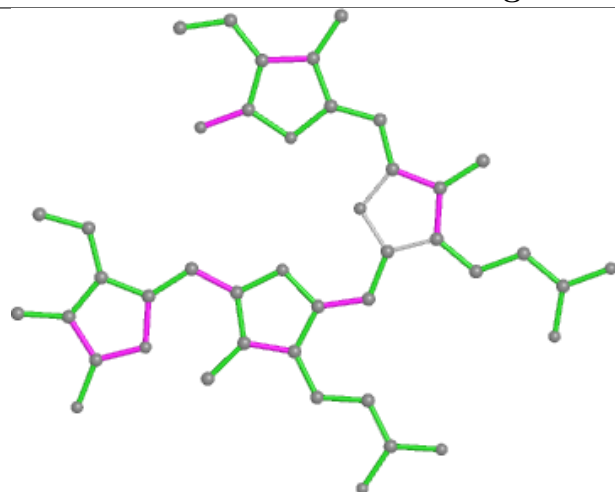
Rings



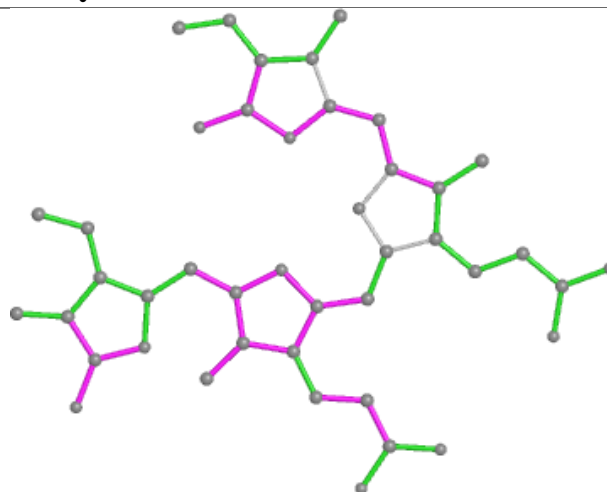
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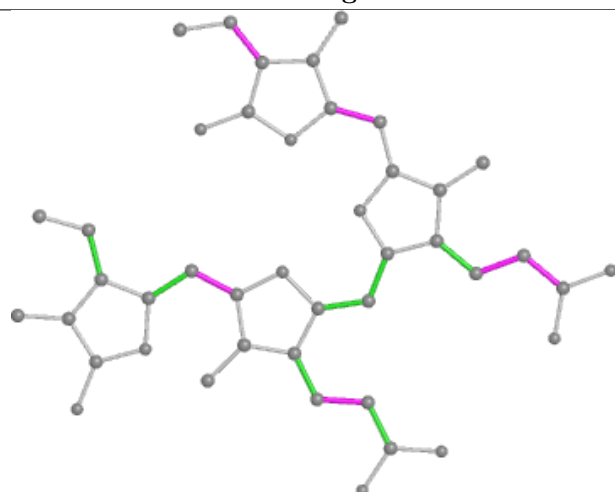
Ligand PEB BQ 201



Bond lengths



Bond angles

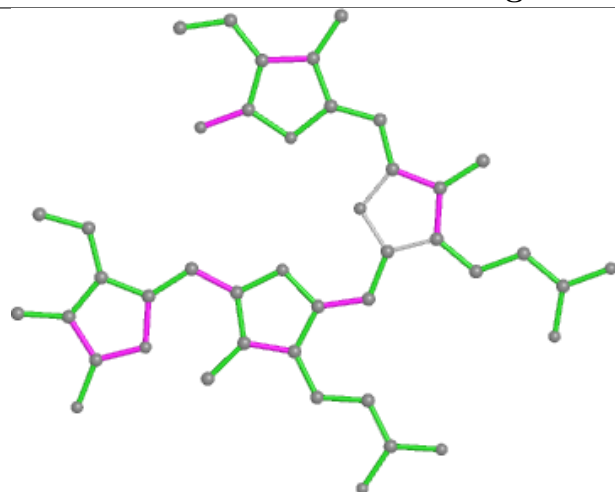


Torsions

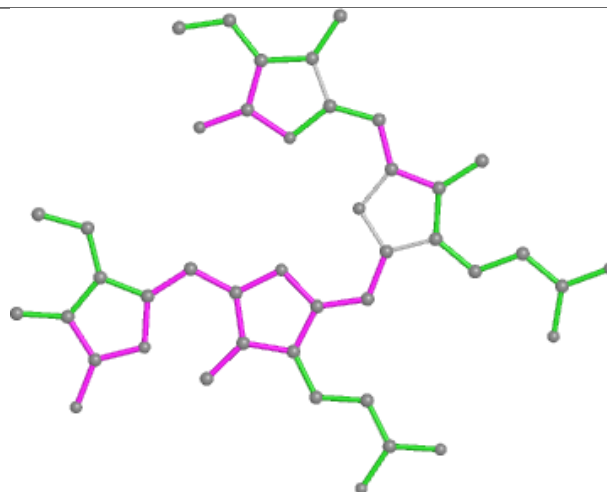


Rings

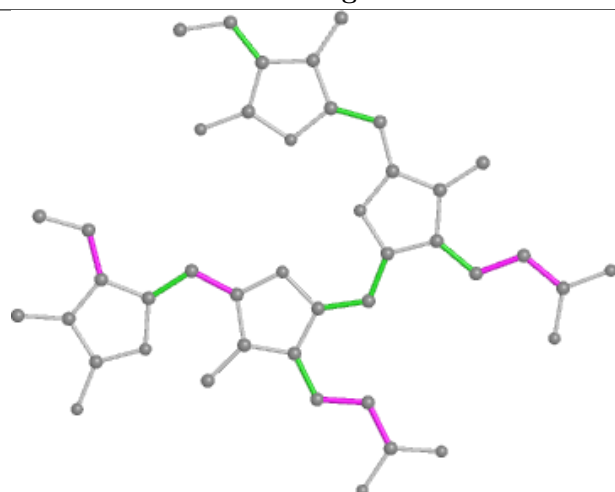
Ligand PEB SK 202



Bond lengths



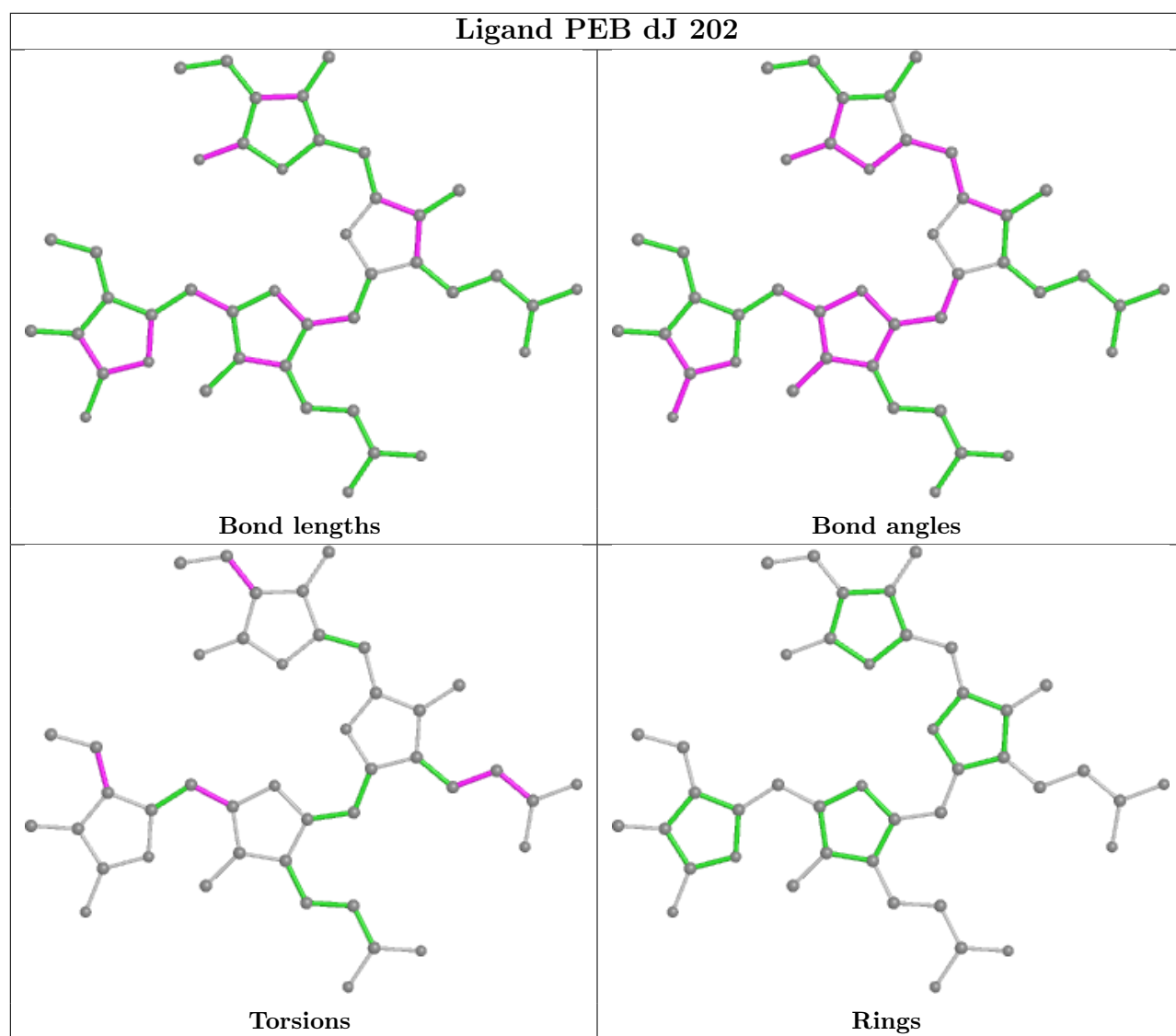
Bond angles



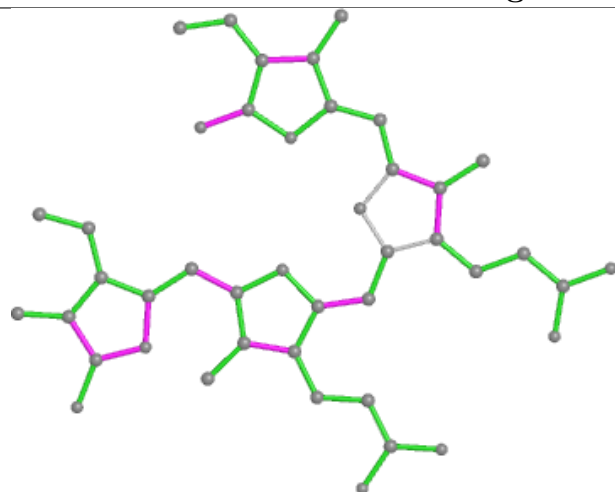
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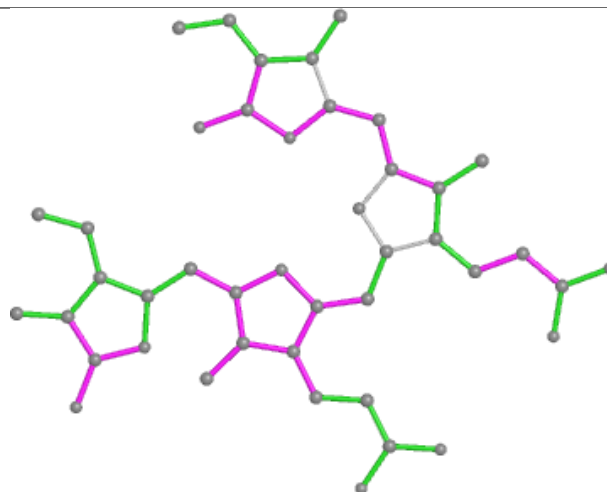
Rings



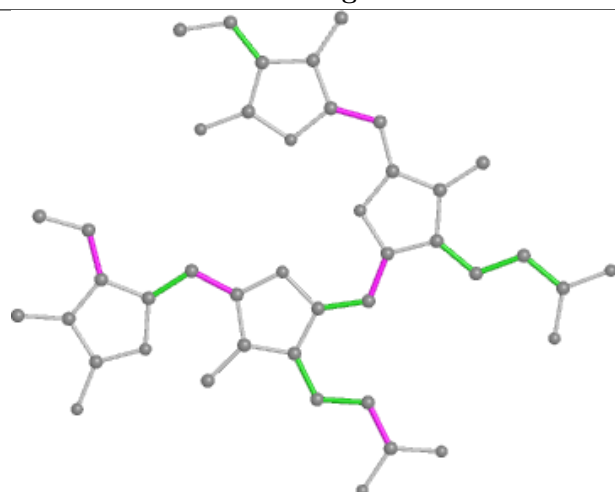
Ligand PEB H3 203



Bond lengths



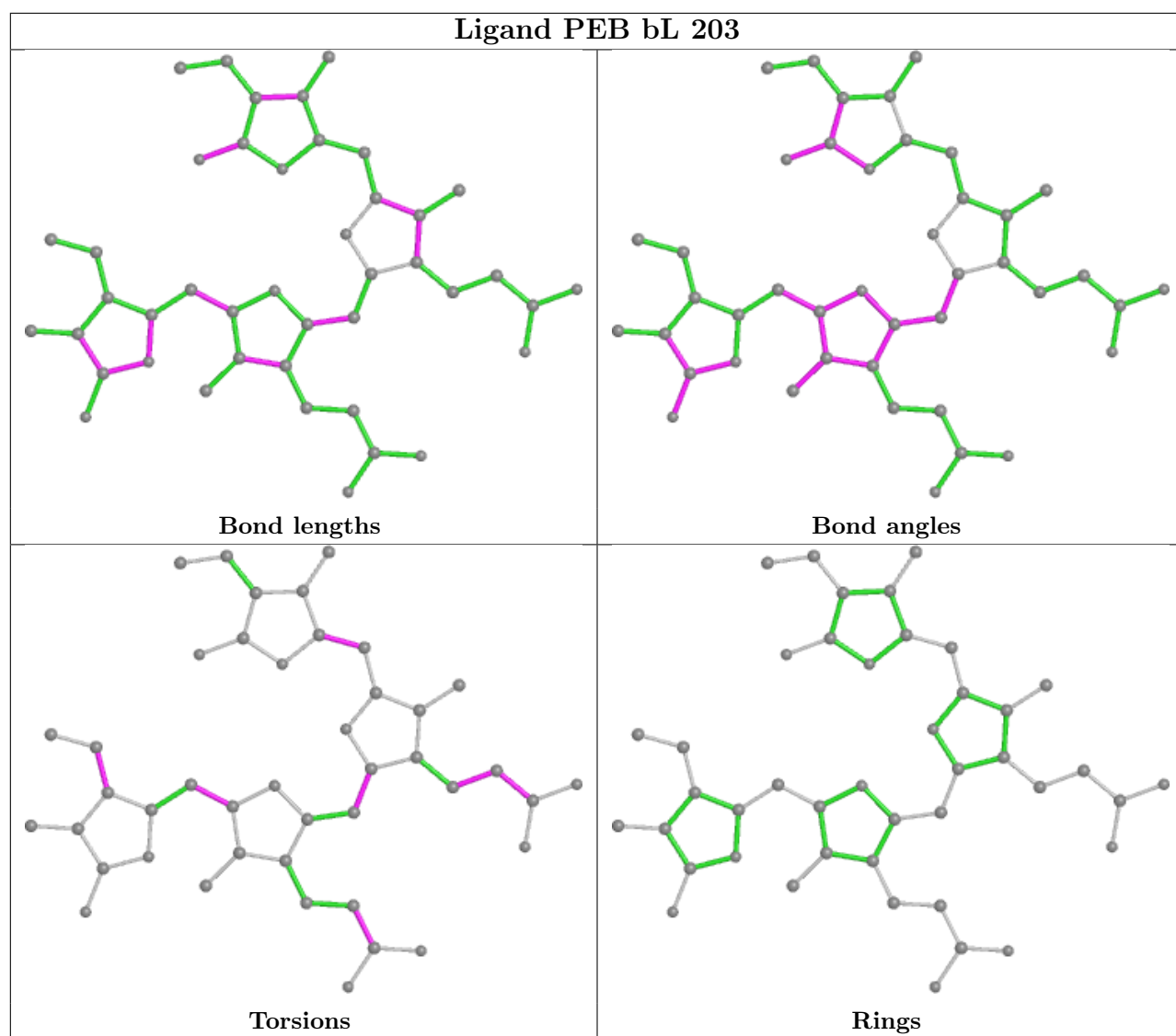
Bond angles



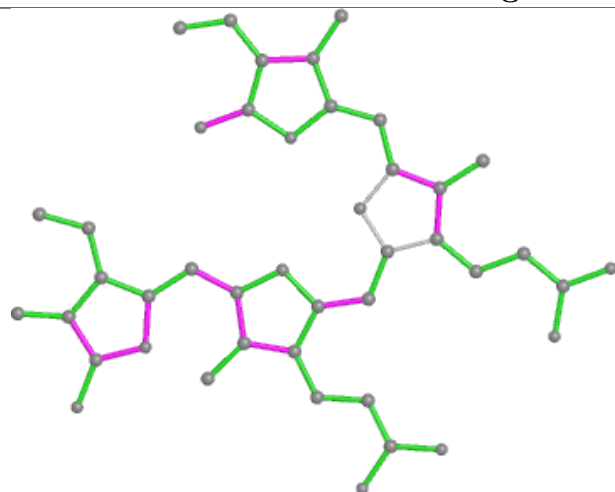
Torsions



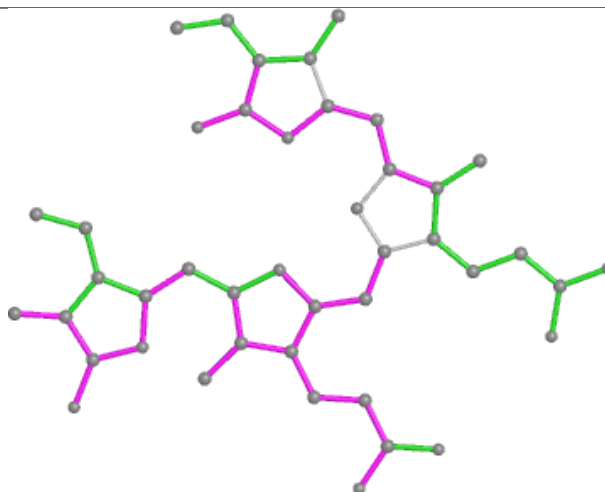
Rings



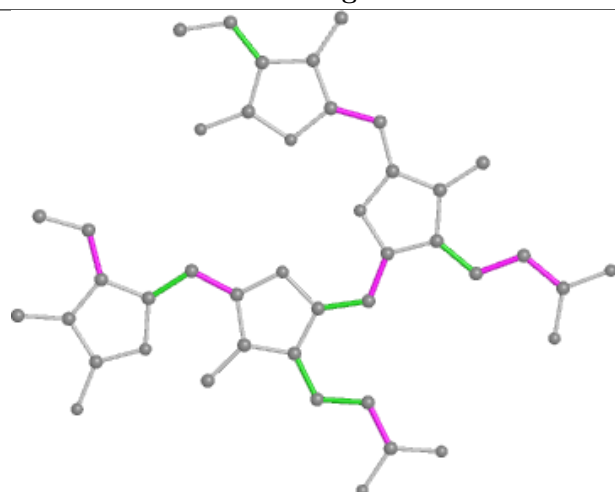
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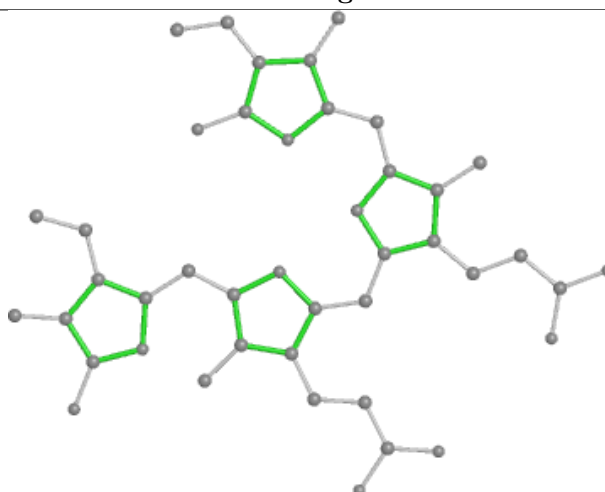
Bond lengths



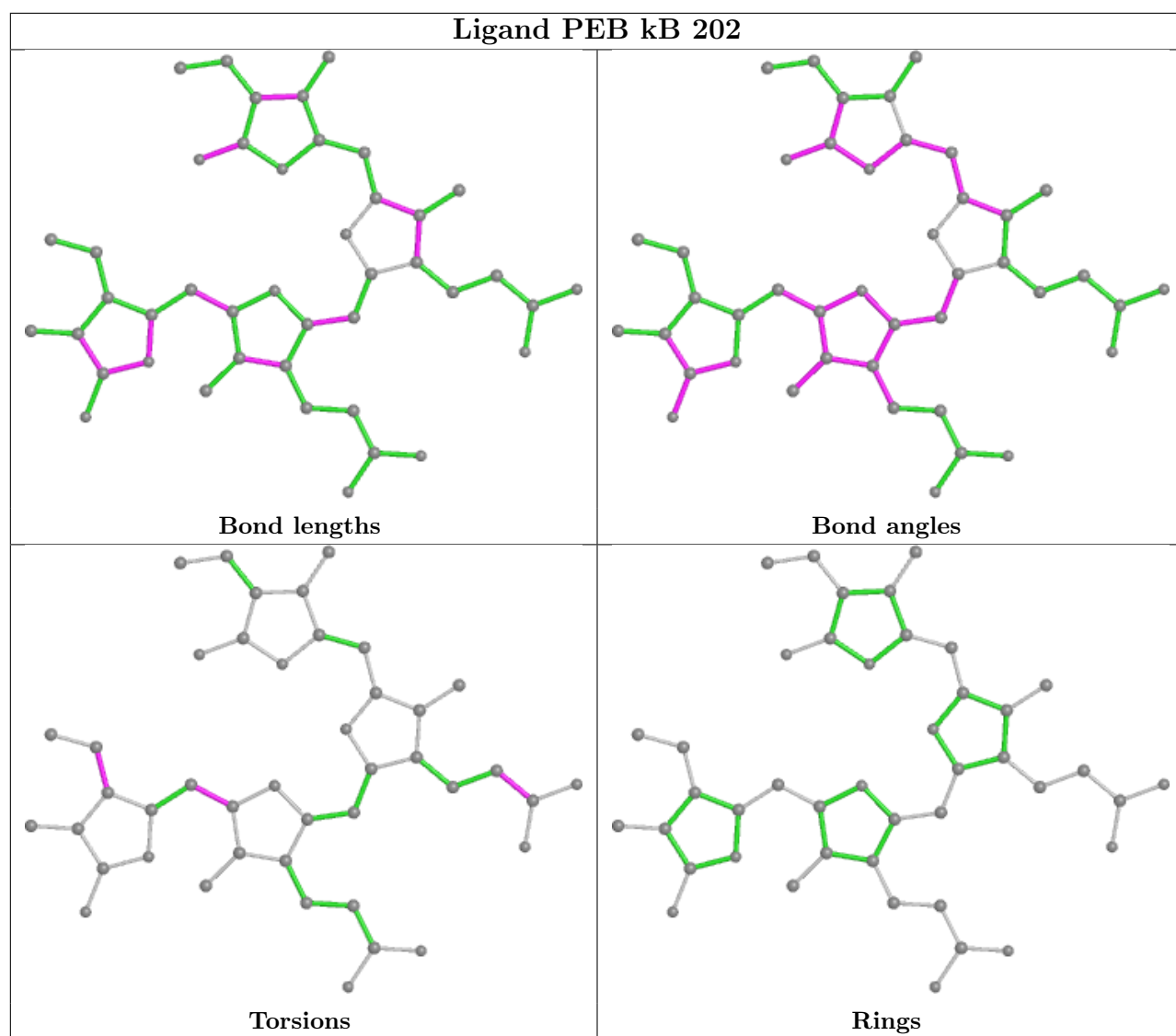
Bond angles



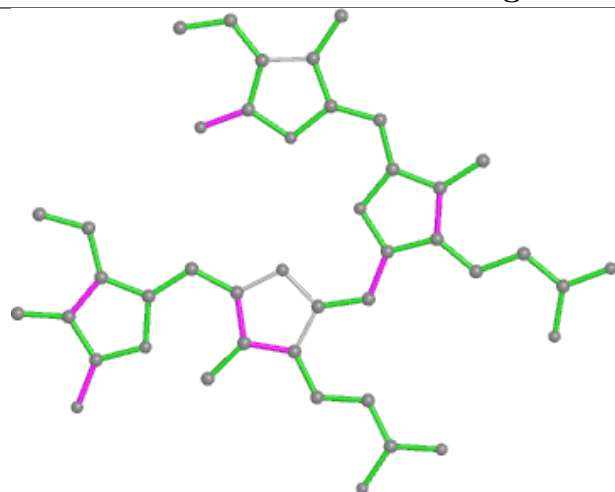
Torsions



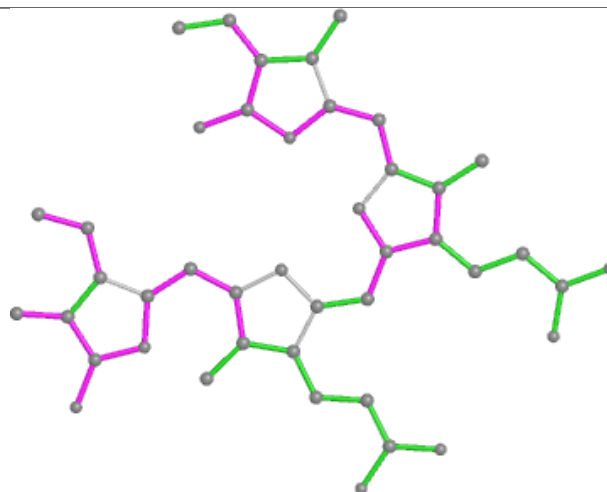
Rings



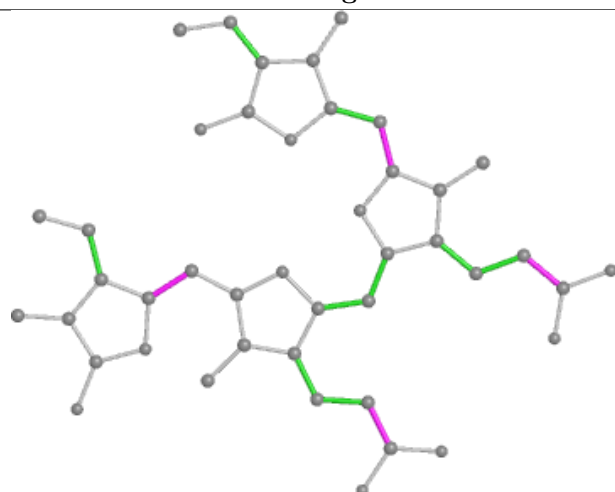
Ligand PUB AF 303



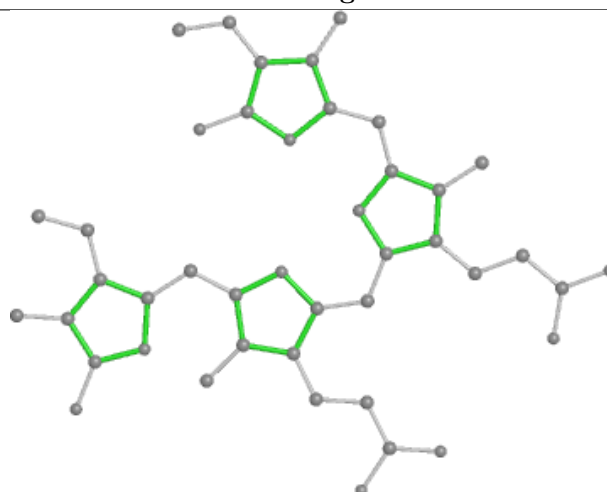
Bond lengths



Bond angles

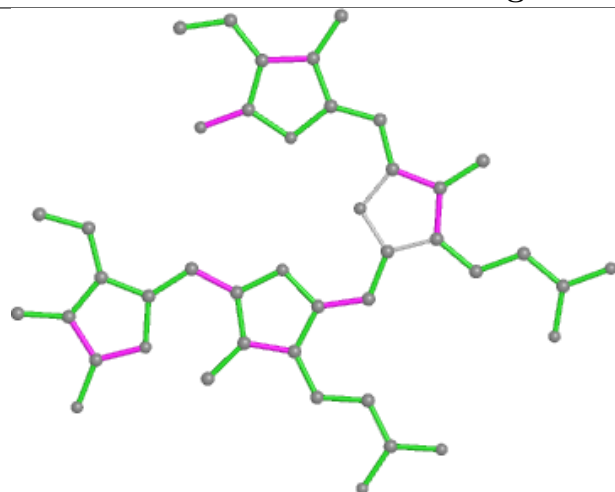


Torsions

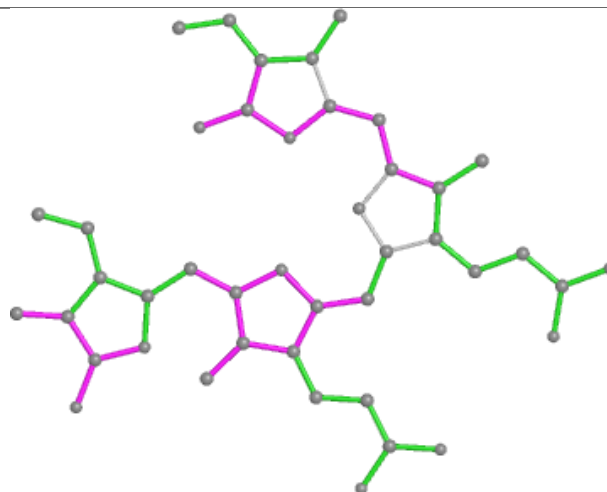


Rings

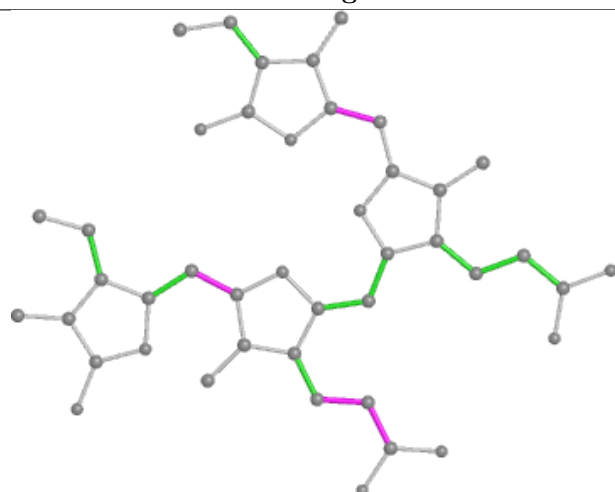
Ligand PEB aK 203



Bond lengths



Bond angles

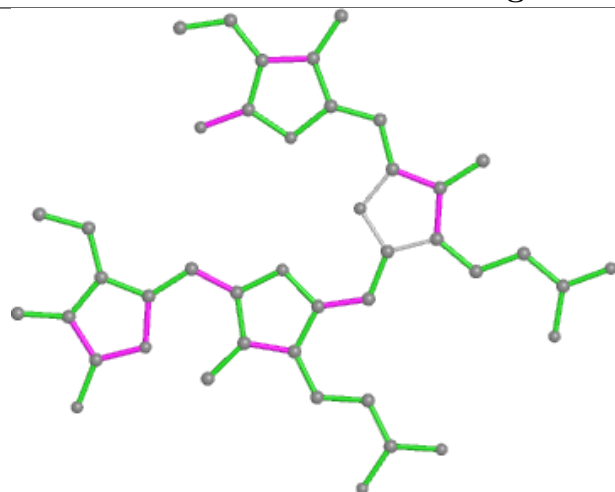


Torsions

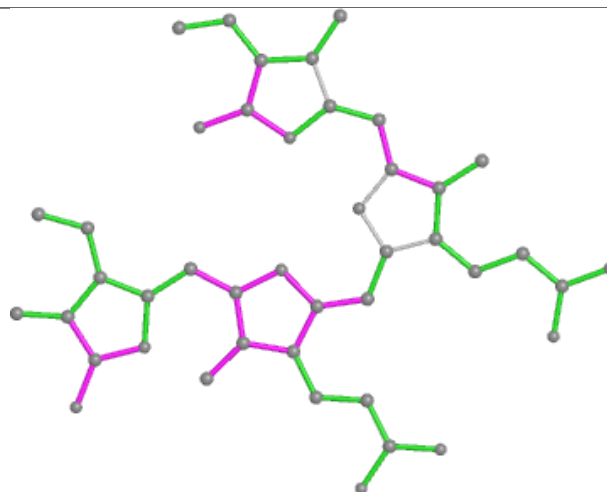


Rings

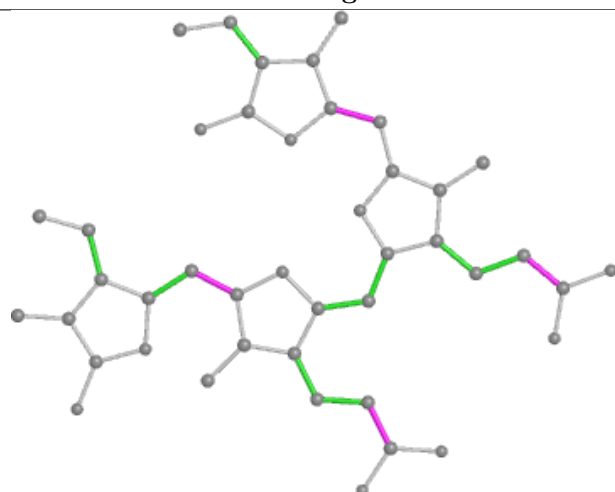
Ligand PEB U9 202



Bond lengths



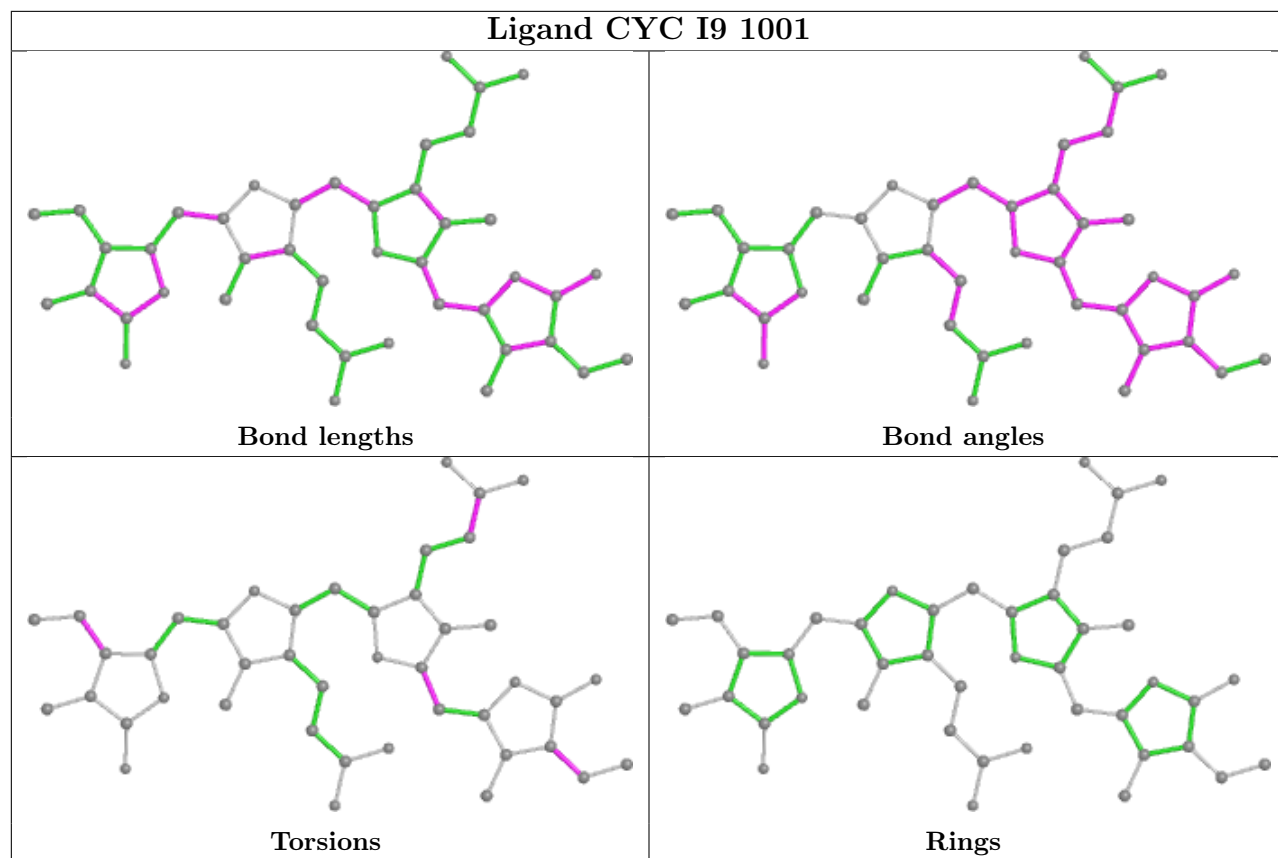
Bond angles



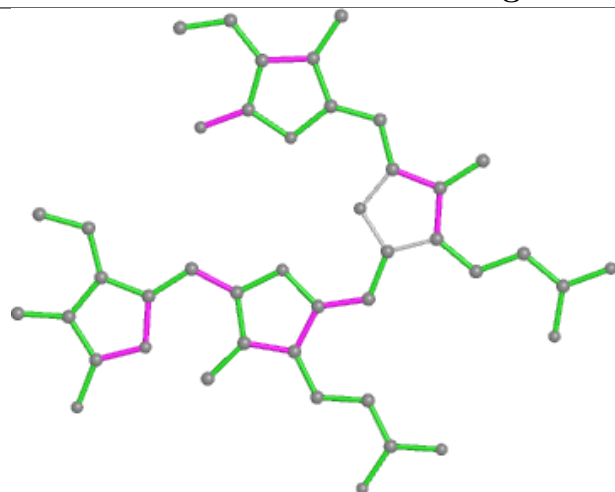
Torsions



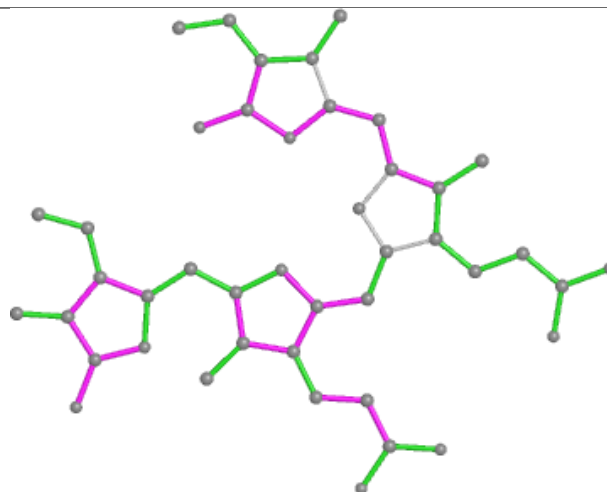
Rings



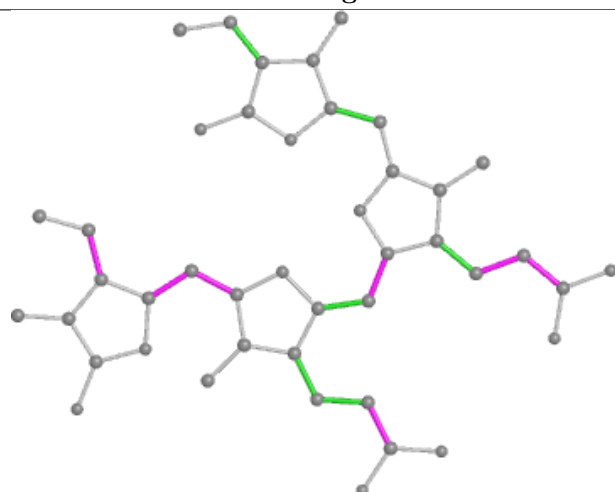
Ligand PEB AG 202



Bond lengths



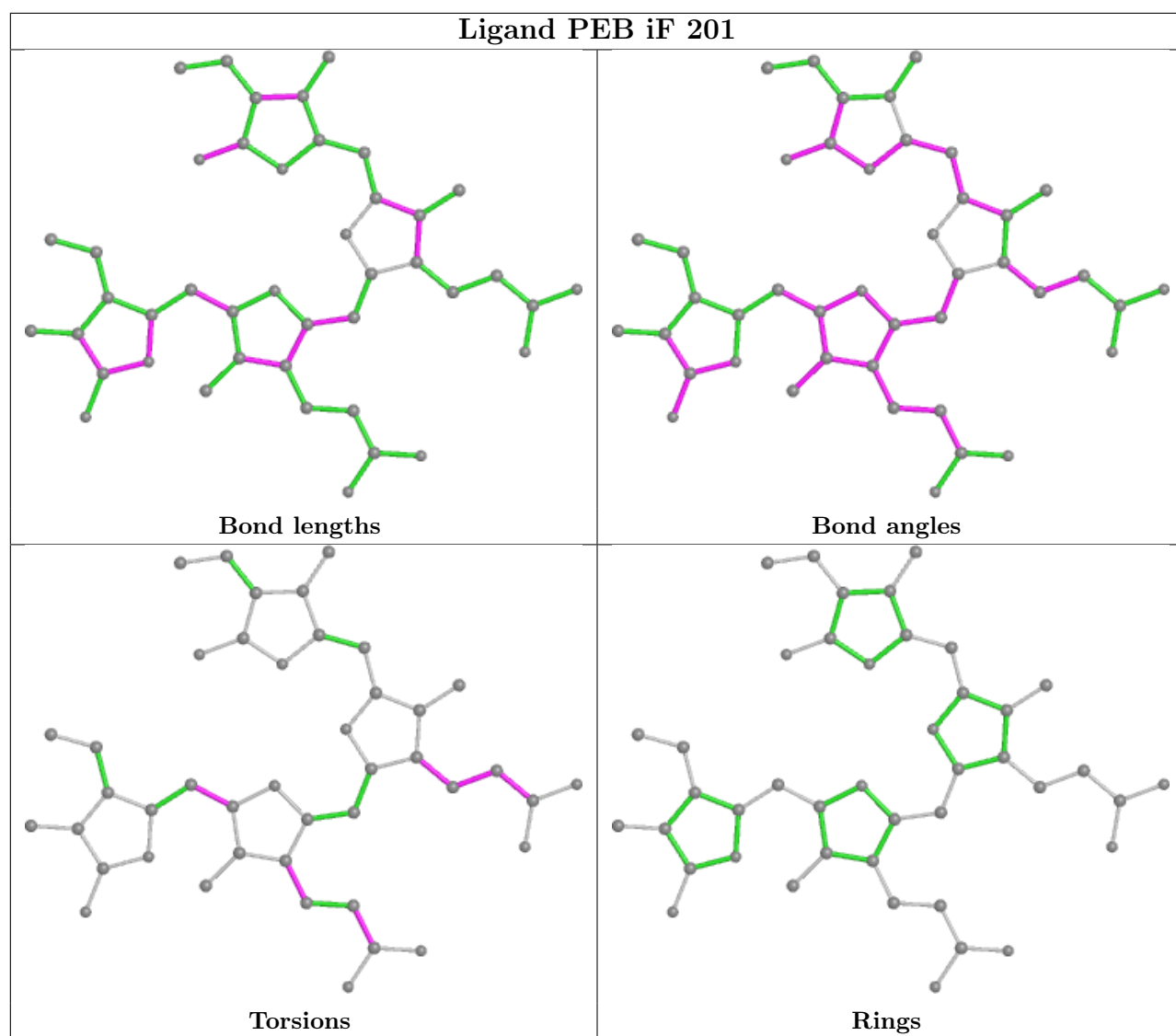
Bond angles



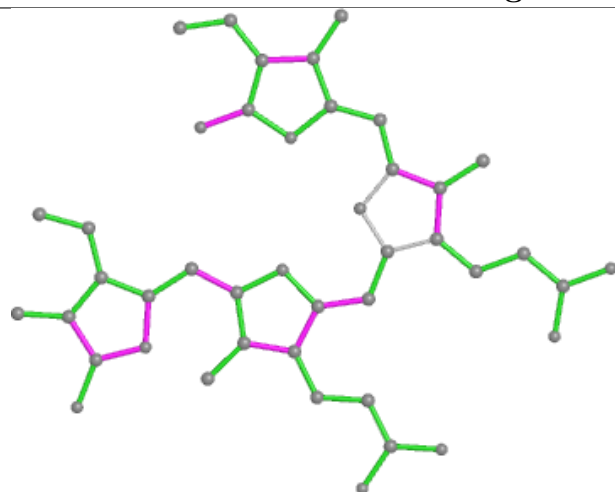
Torsions



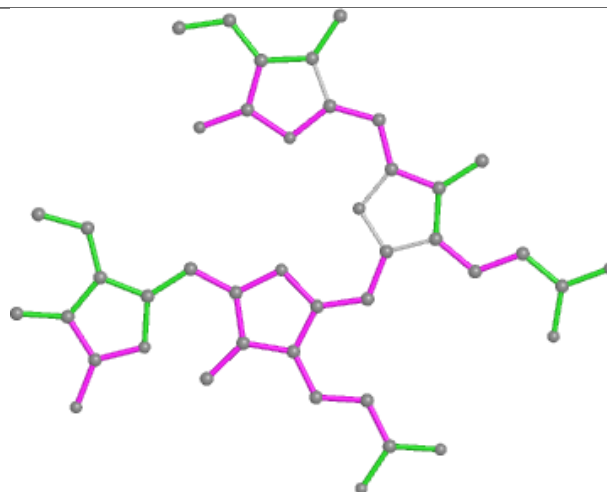
Rings



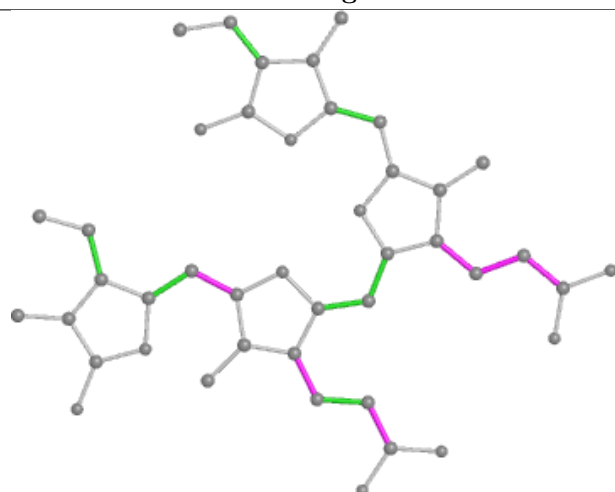
Ligand PEB YF 201



Bond lengths



Bond angles

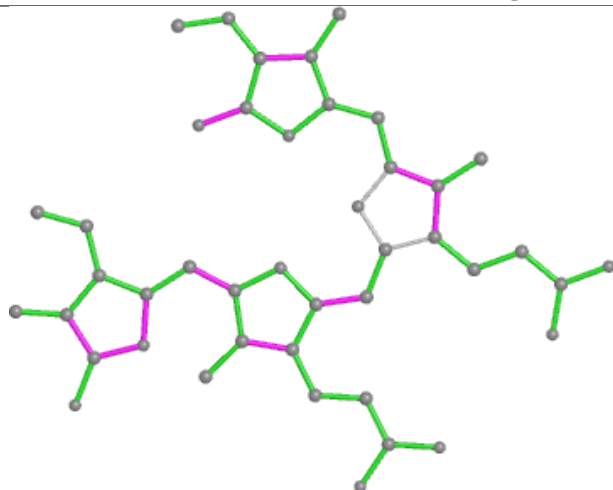


Torsions

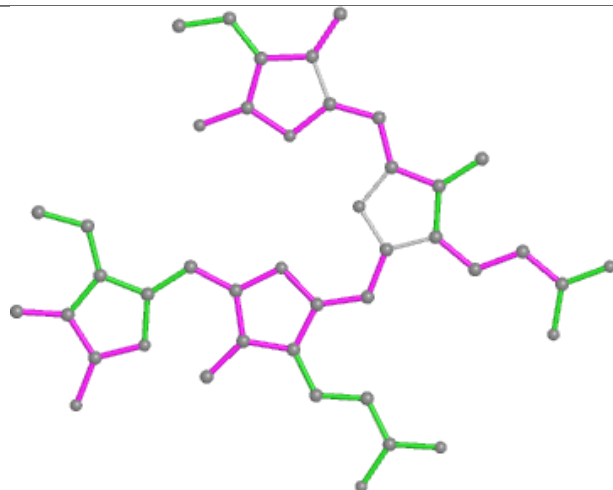


Rings

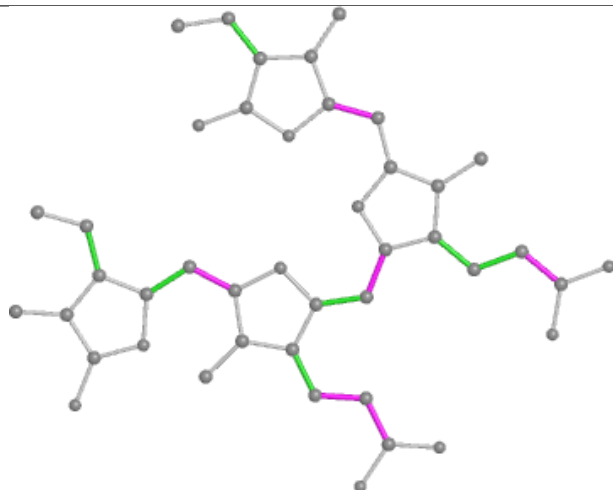
Ligand PEB C4 203



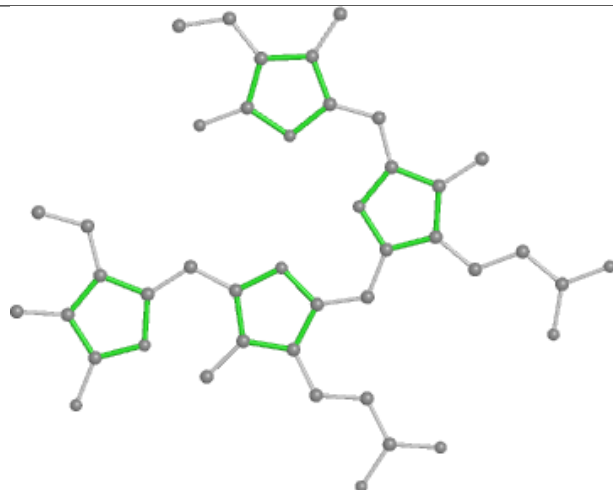
Bond lengths



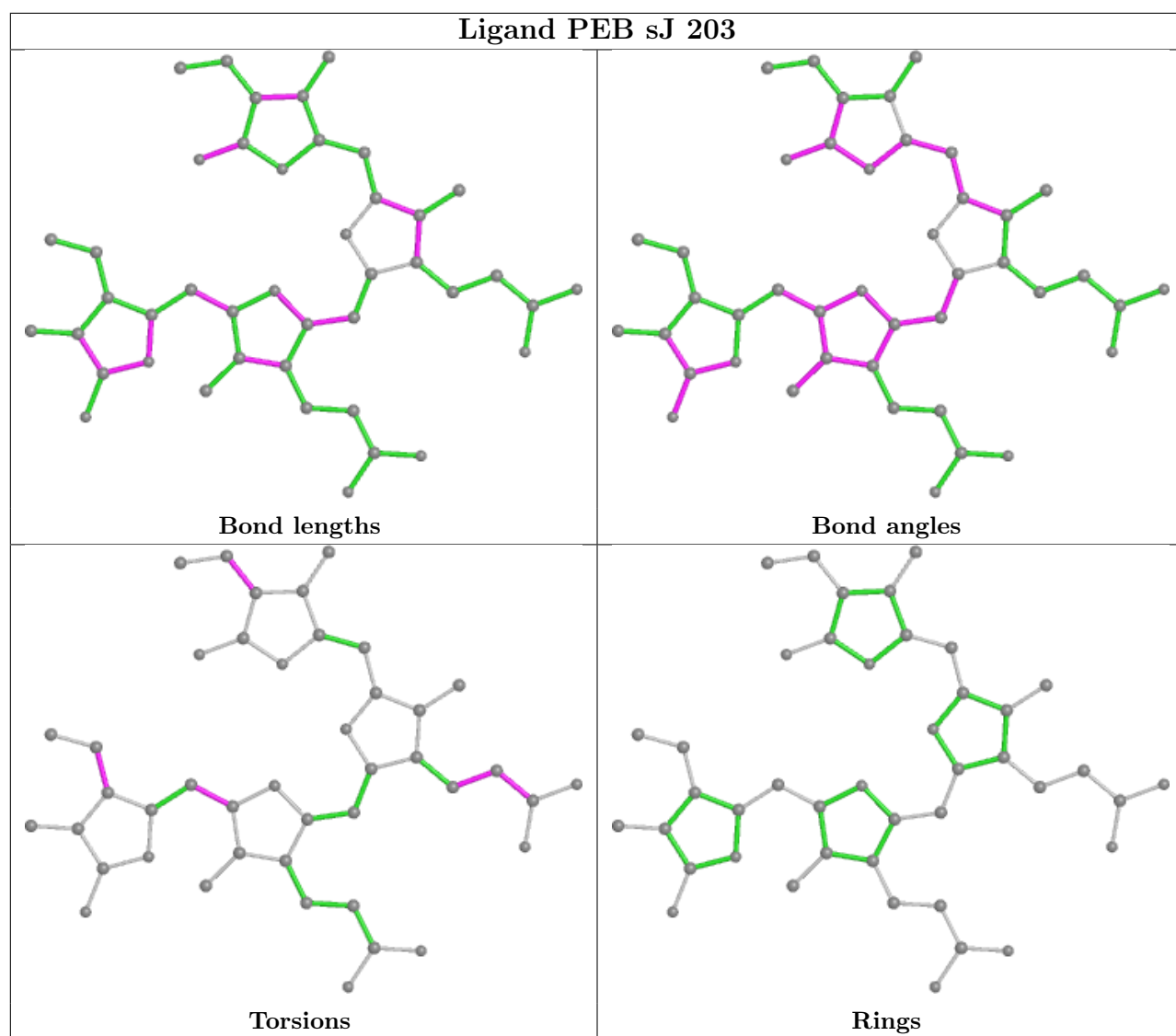
Bond angles

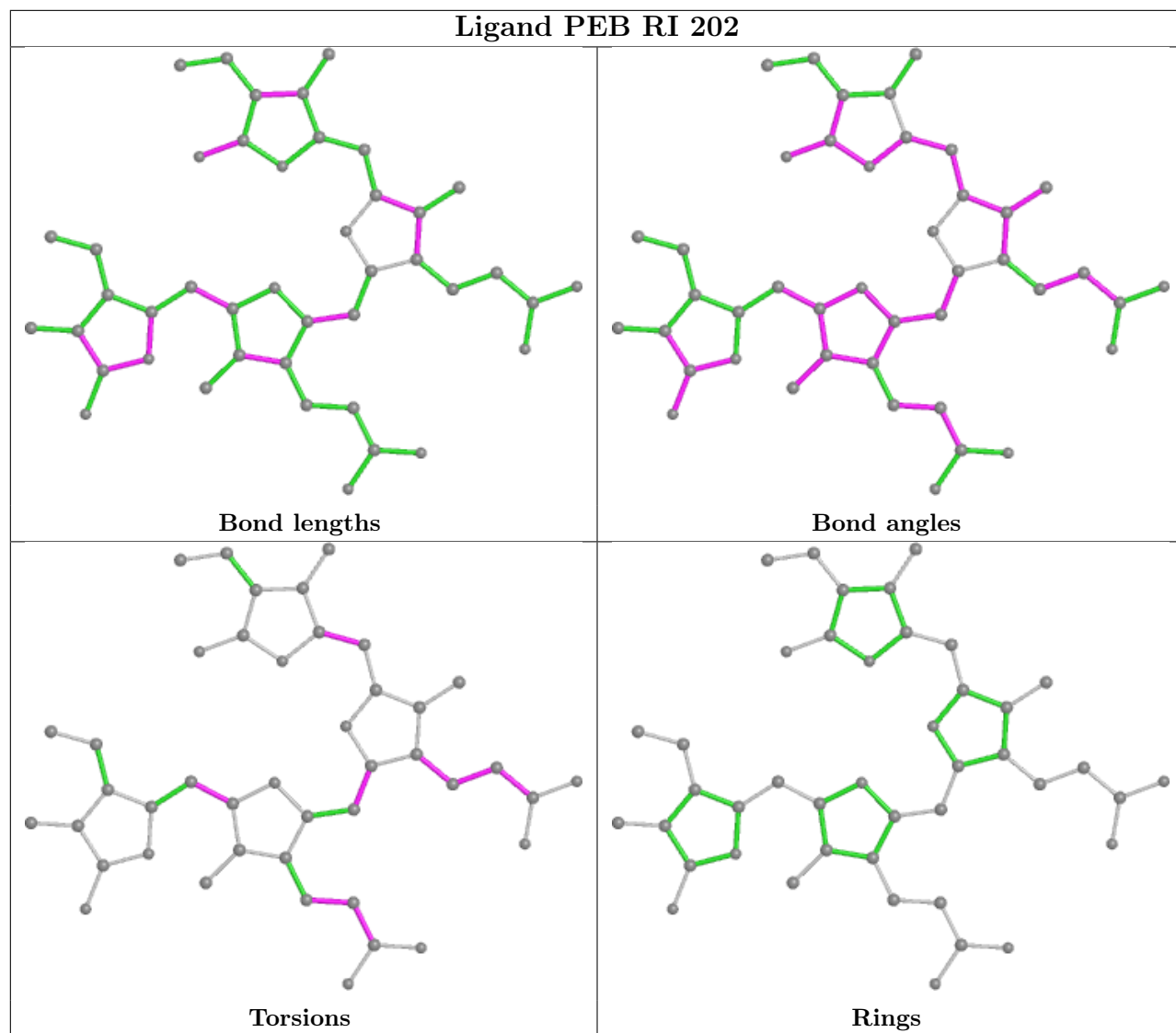


Torsions

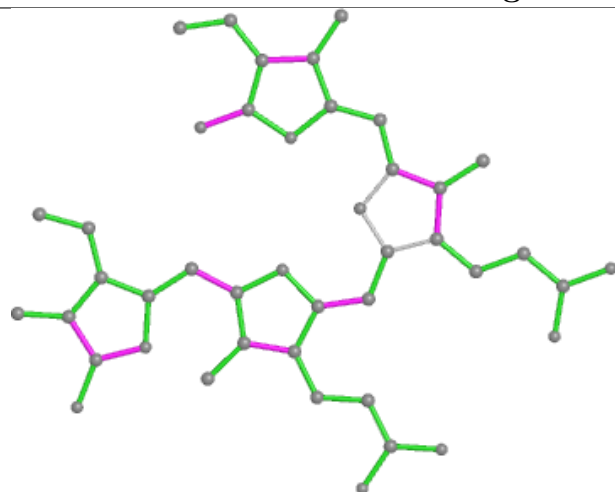


Rings

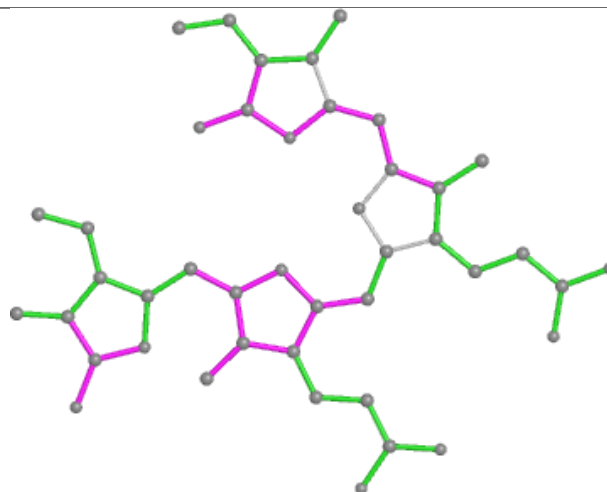




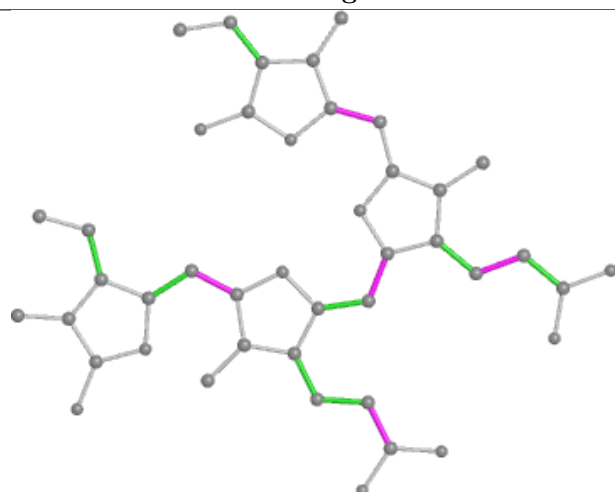
Ligand PEB DC 202



Bond lengths



Bond angles

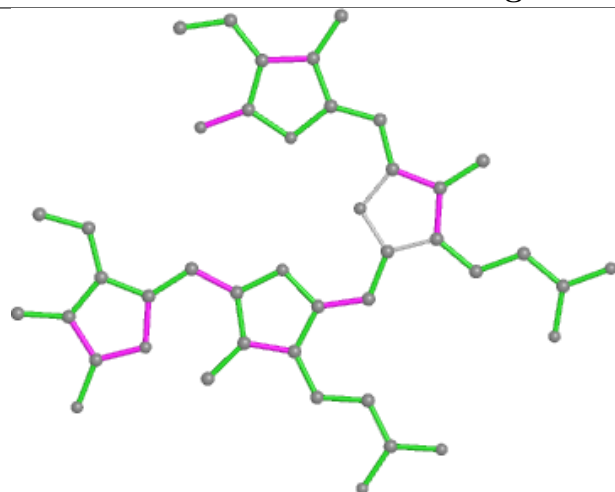


Torsions

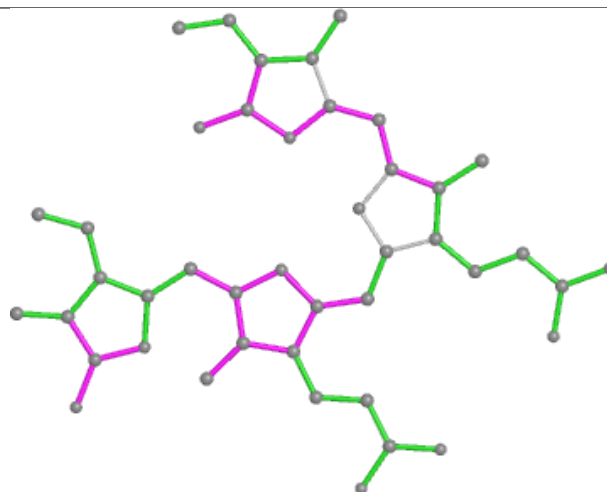


Rings

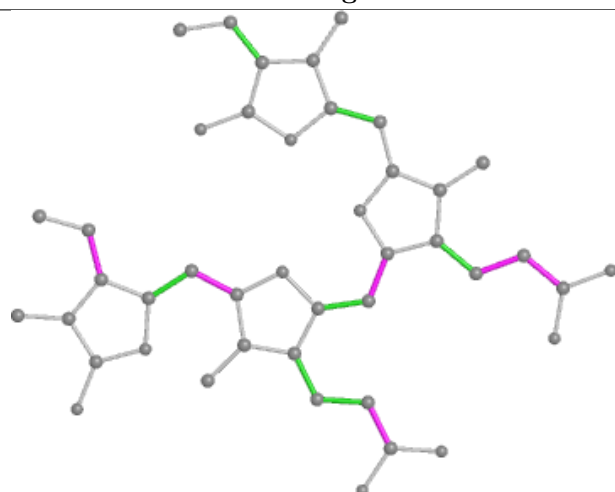
Ligand PEB GL 202



Bond lengths



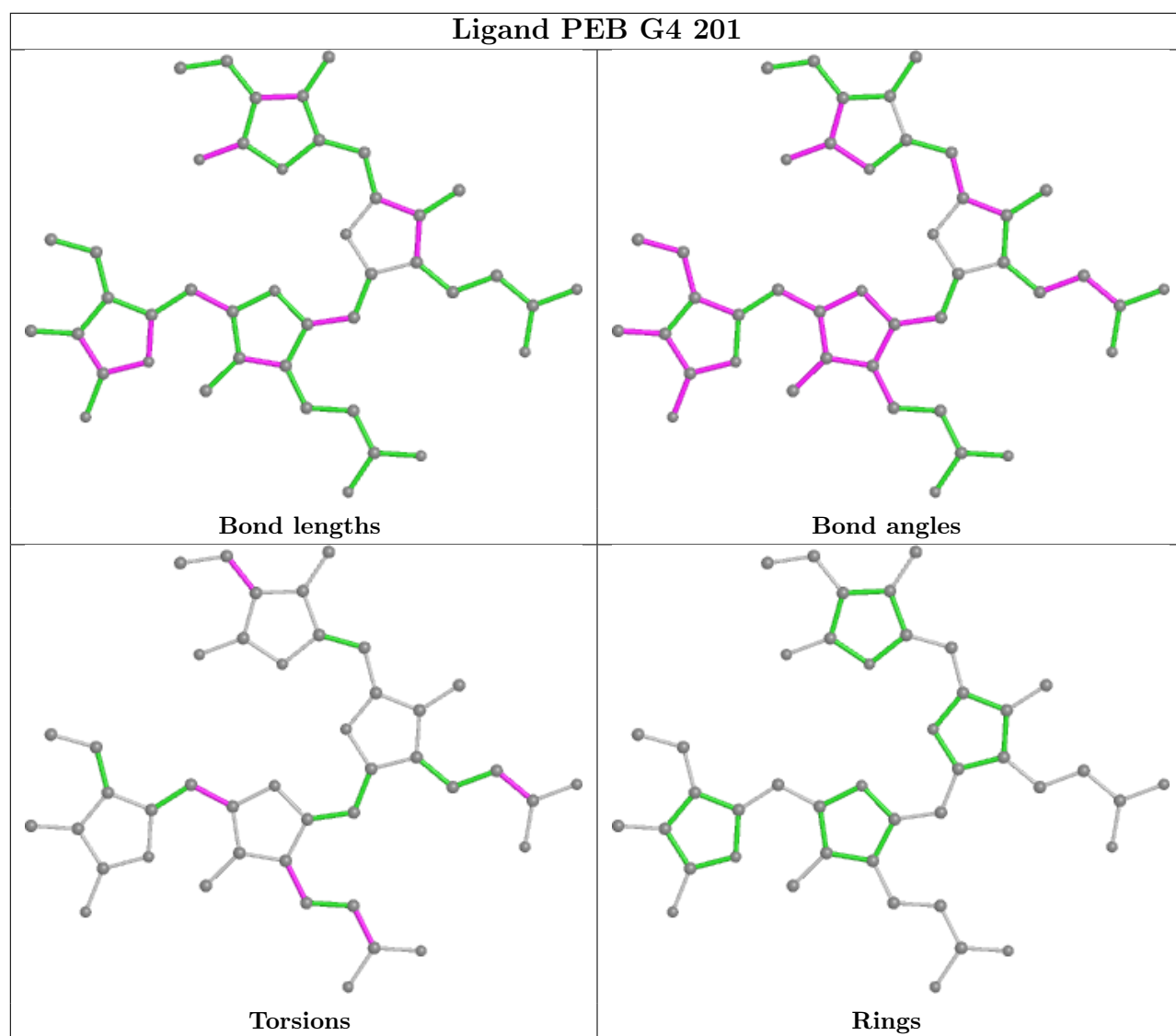
Bond angles

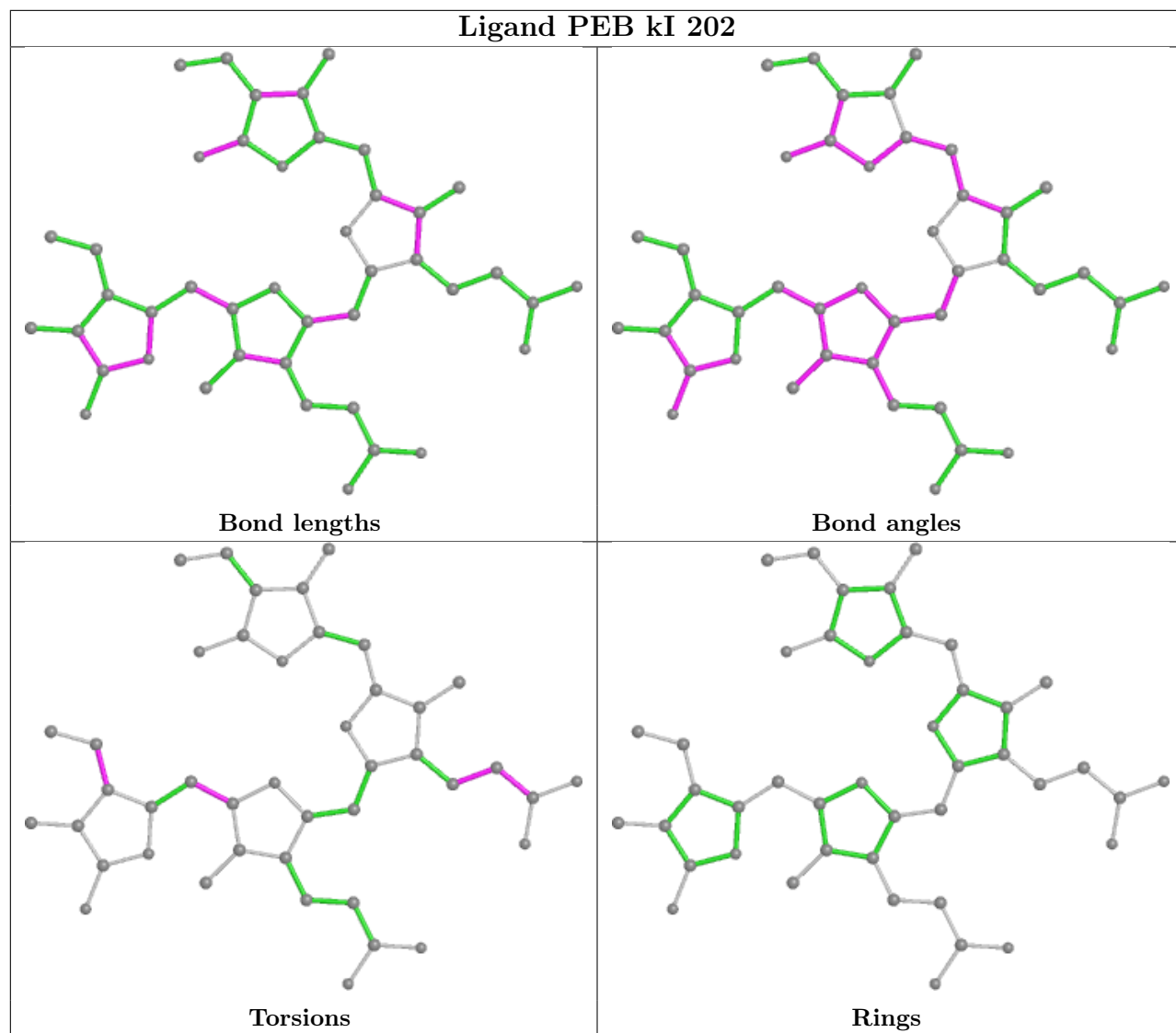


Torsions

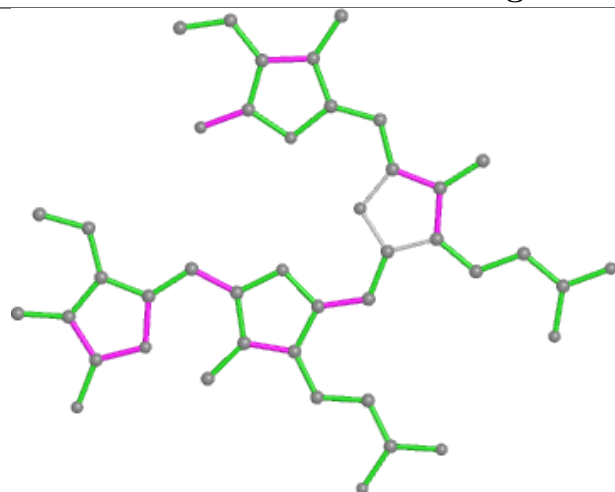


Rings

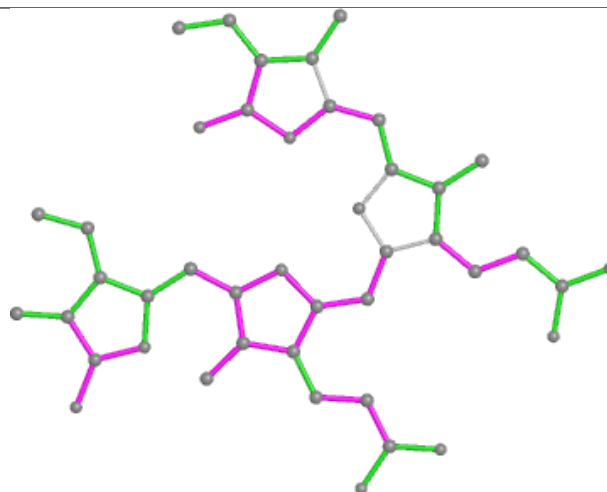




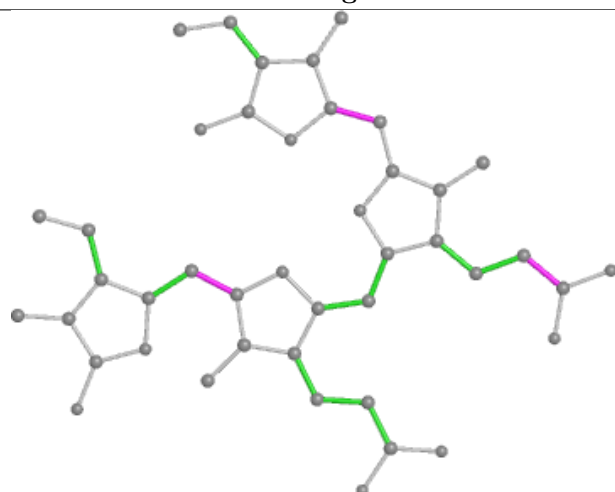
Ligand PEB LB 201



Bond lengths



Bond angles

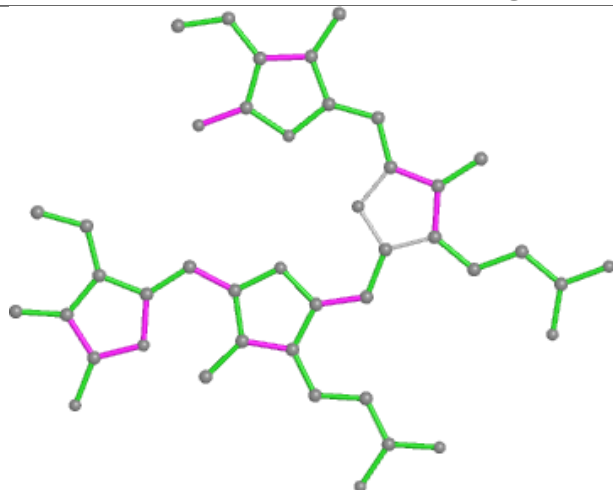


Torsions

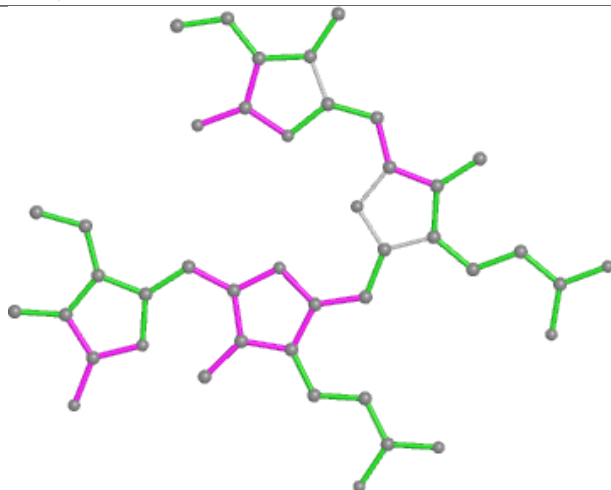


Rings

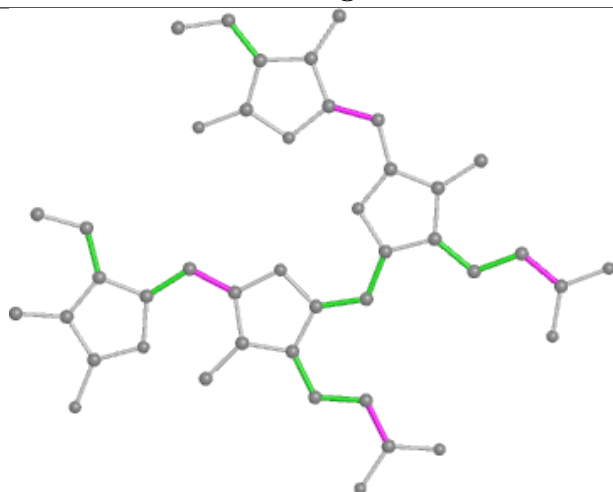
Ligand PEB Q7 202



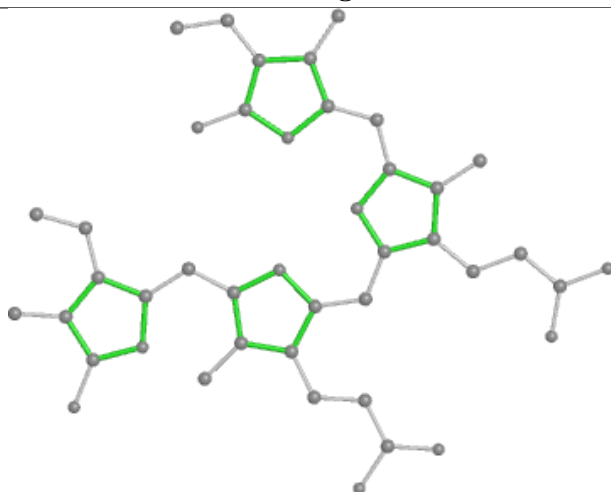
Bond lengths



Bond angles

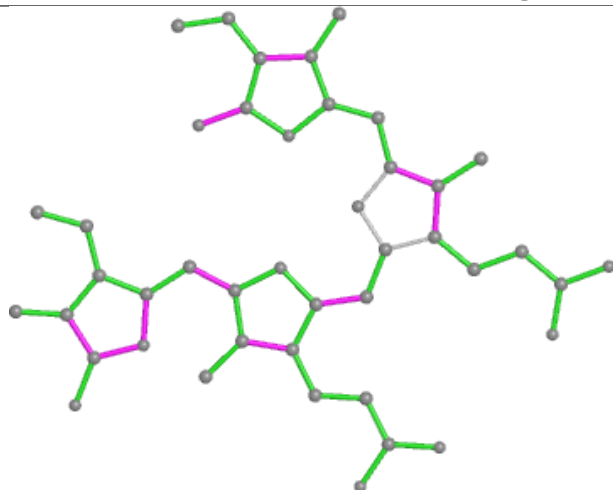


Torsions

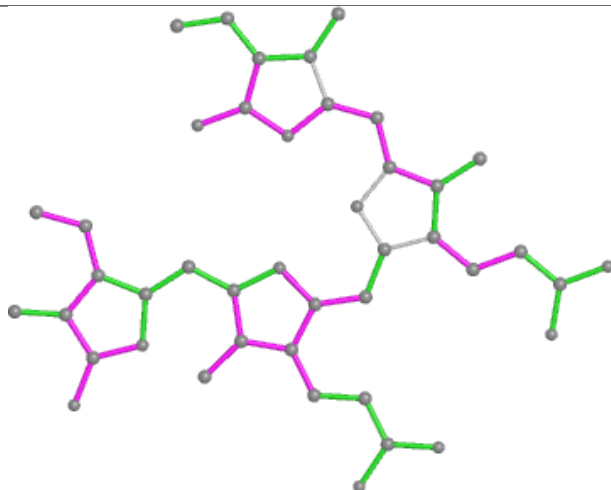


Rings

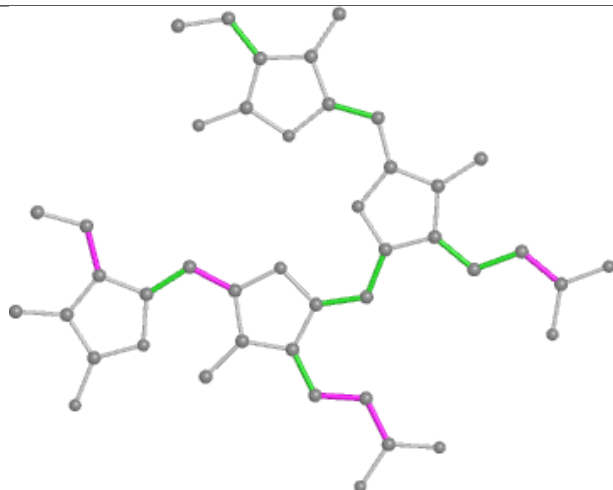
Ligand PEB fl 202



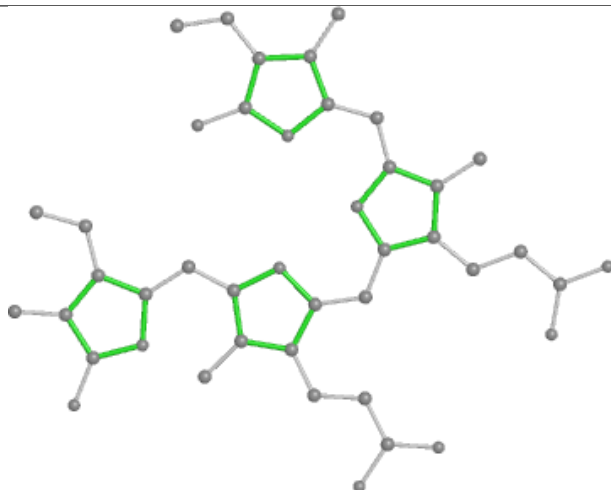
Bond lengths



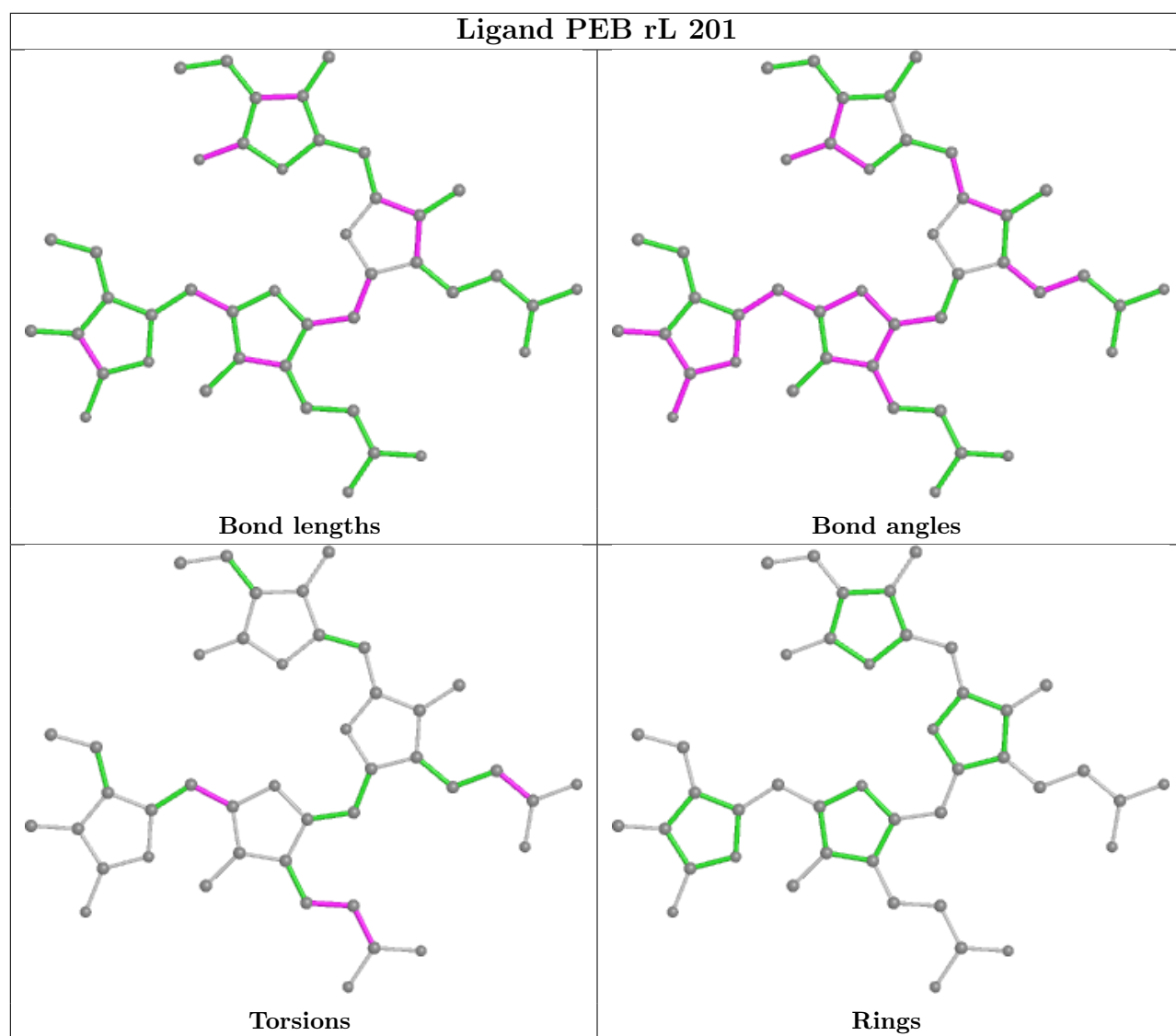
Bond angles



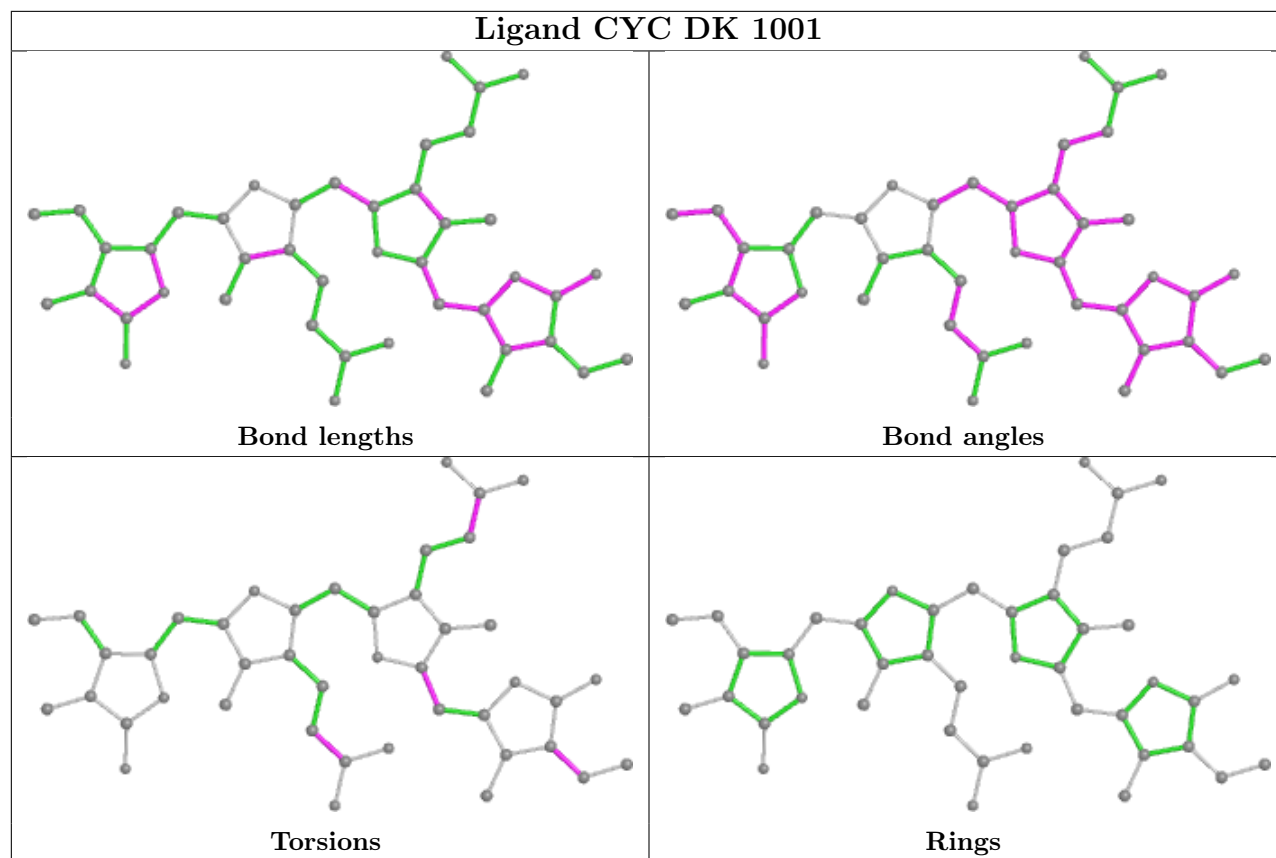
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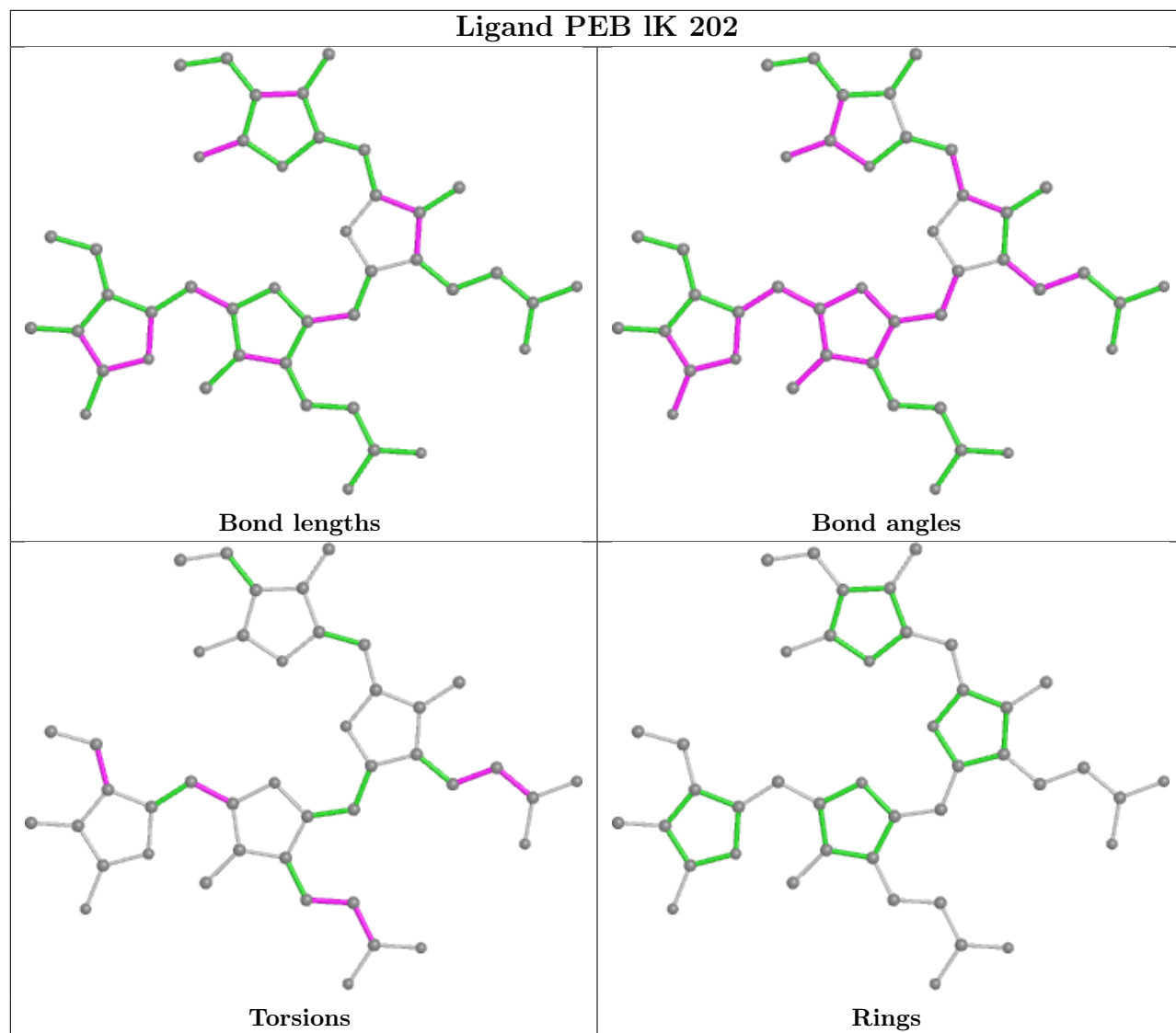


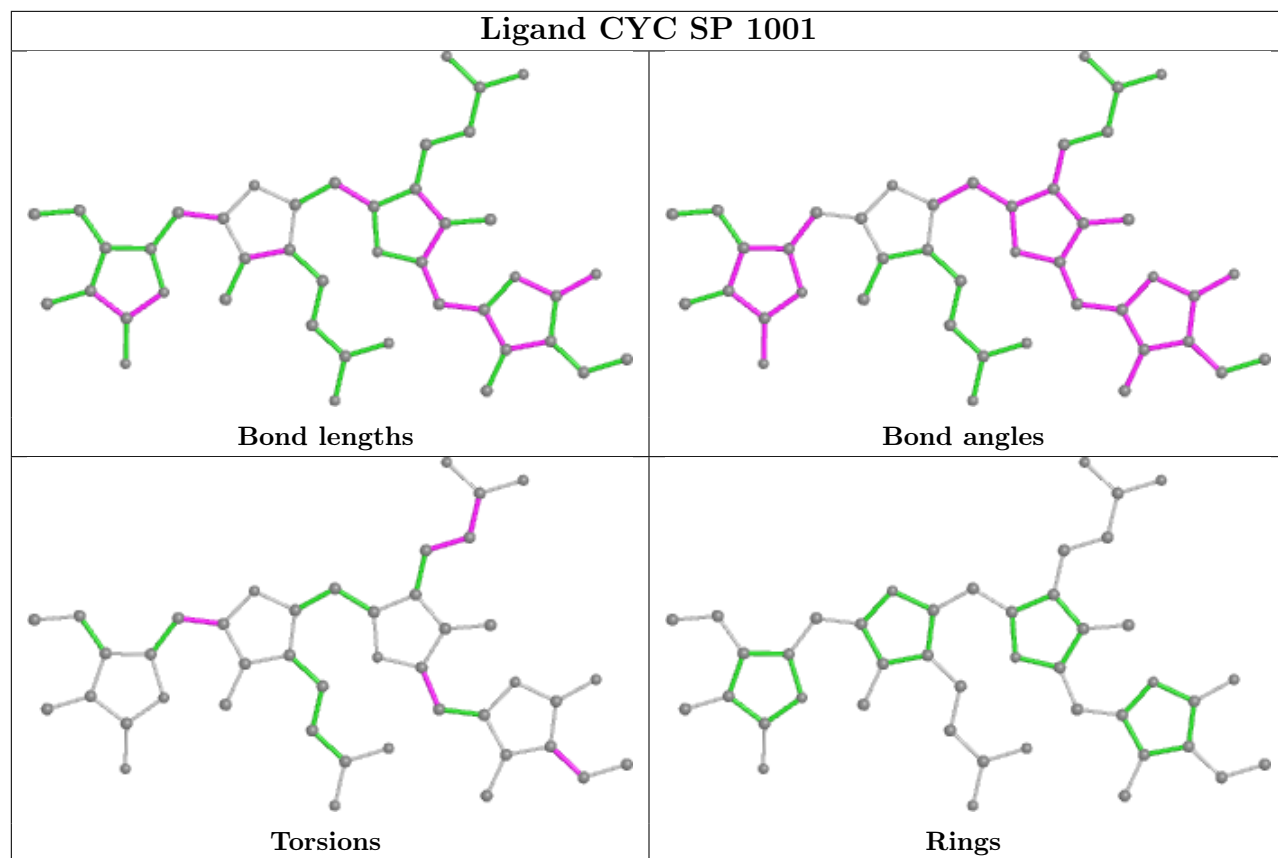
Rings

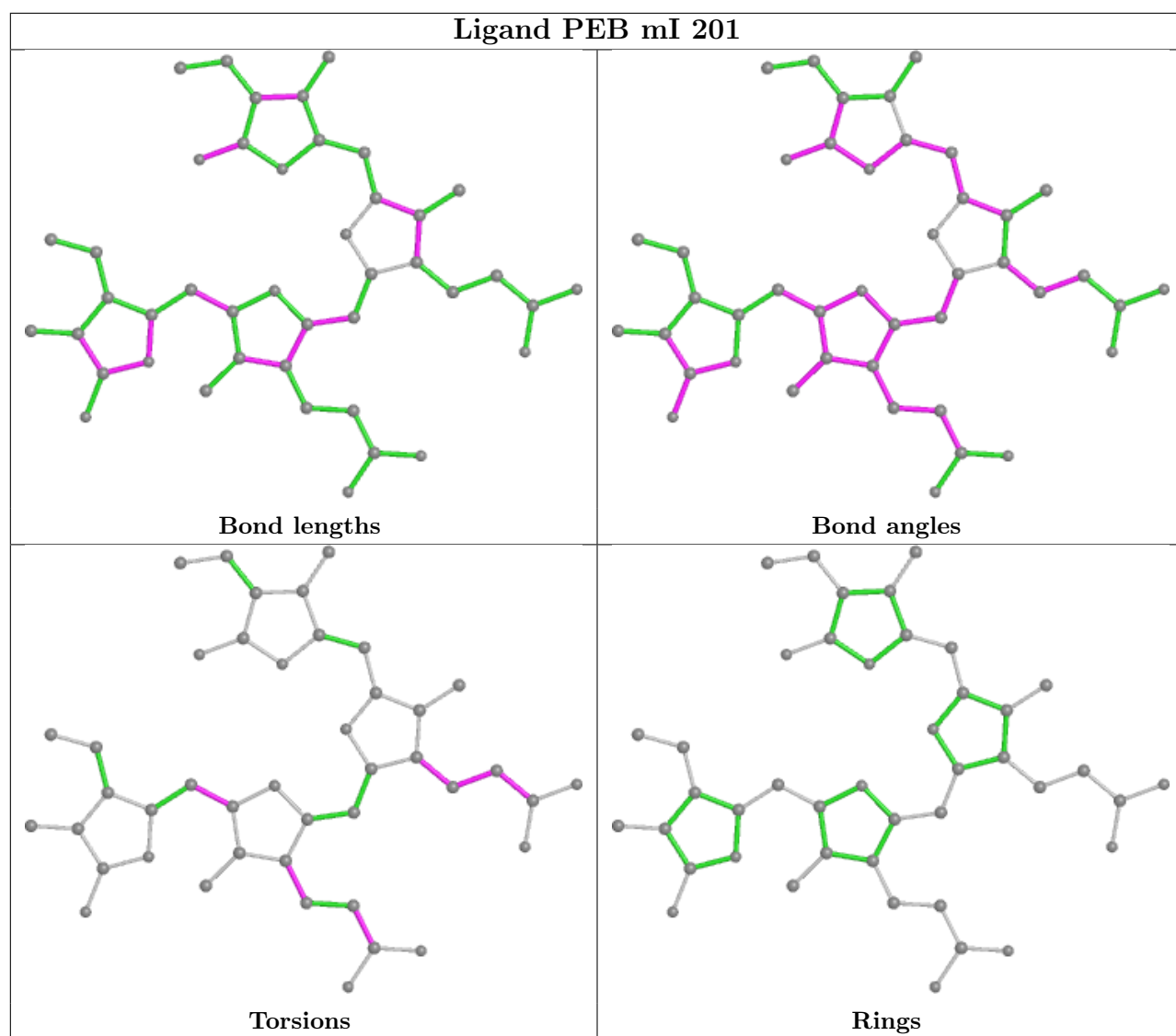


Ligand CYC DK 1001

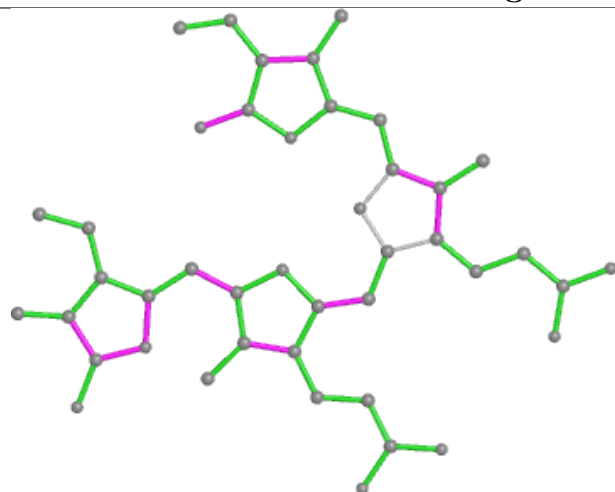




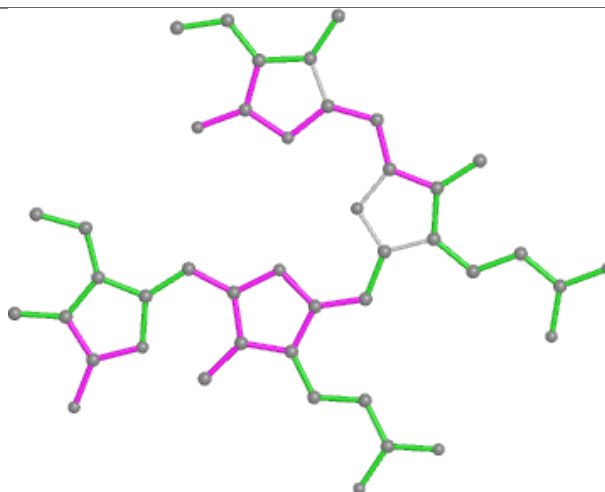




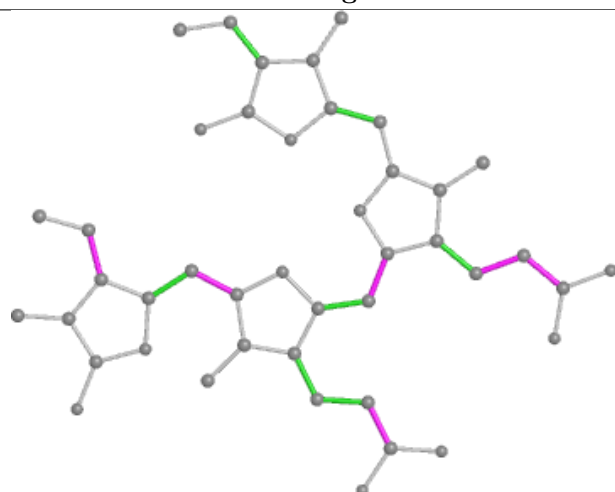
Ligand PEB mJ 202



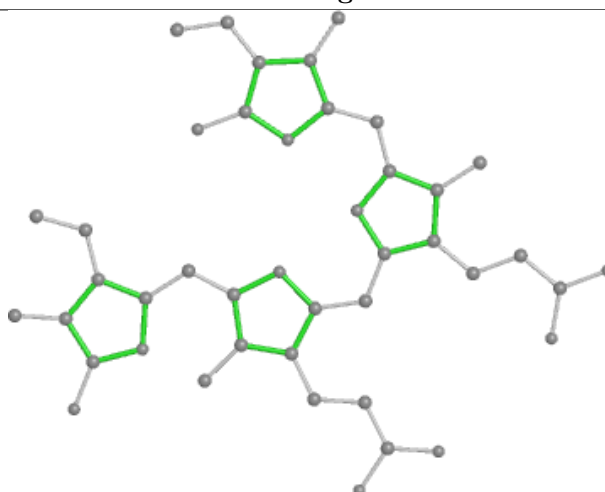
Bond lengths



Bond angles

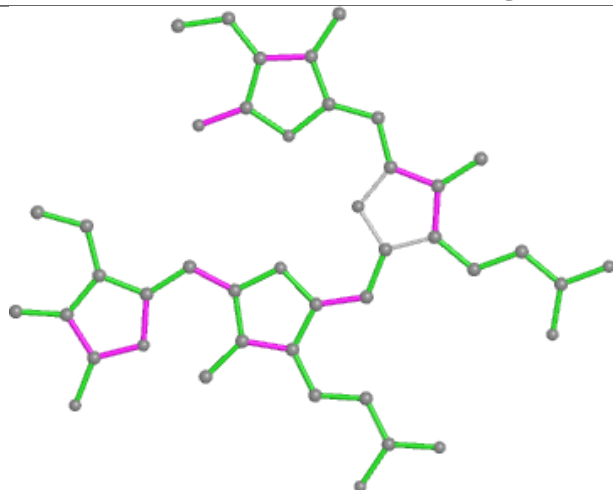


Torsions

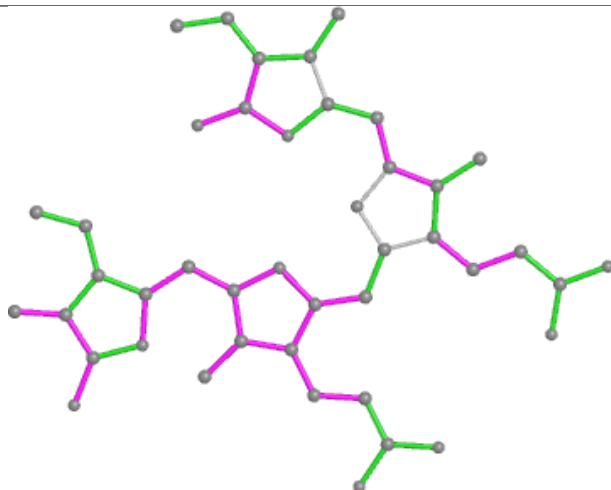


Rings

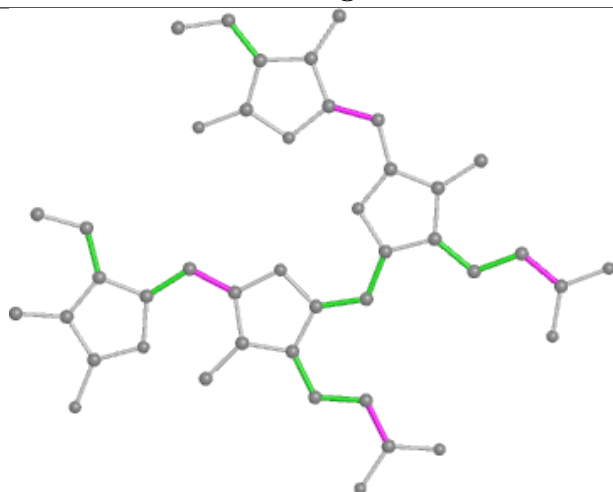
Ligand PEB OK 201



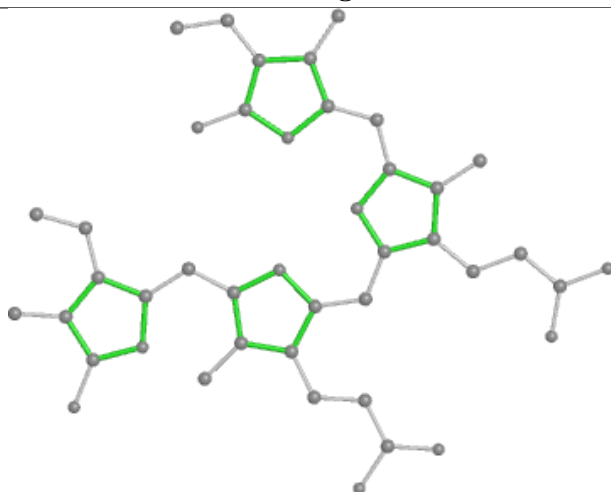
Bond lengths



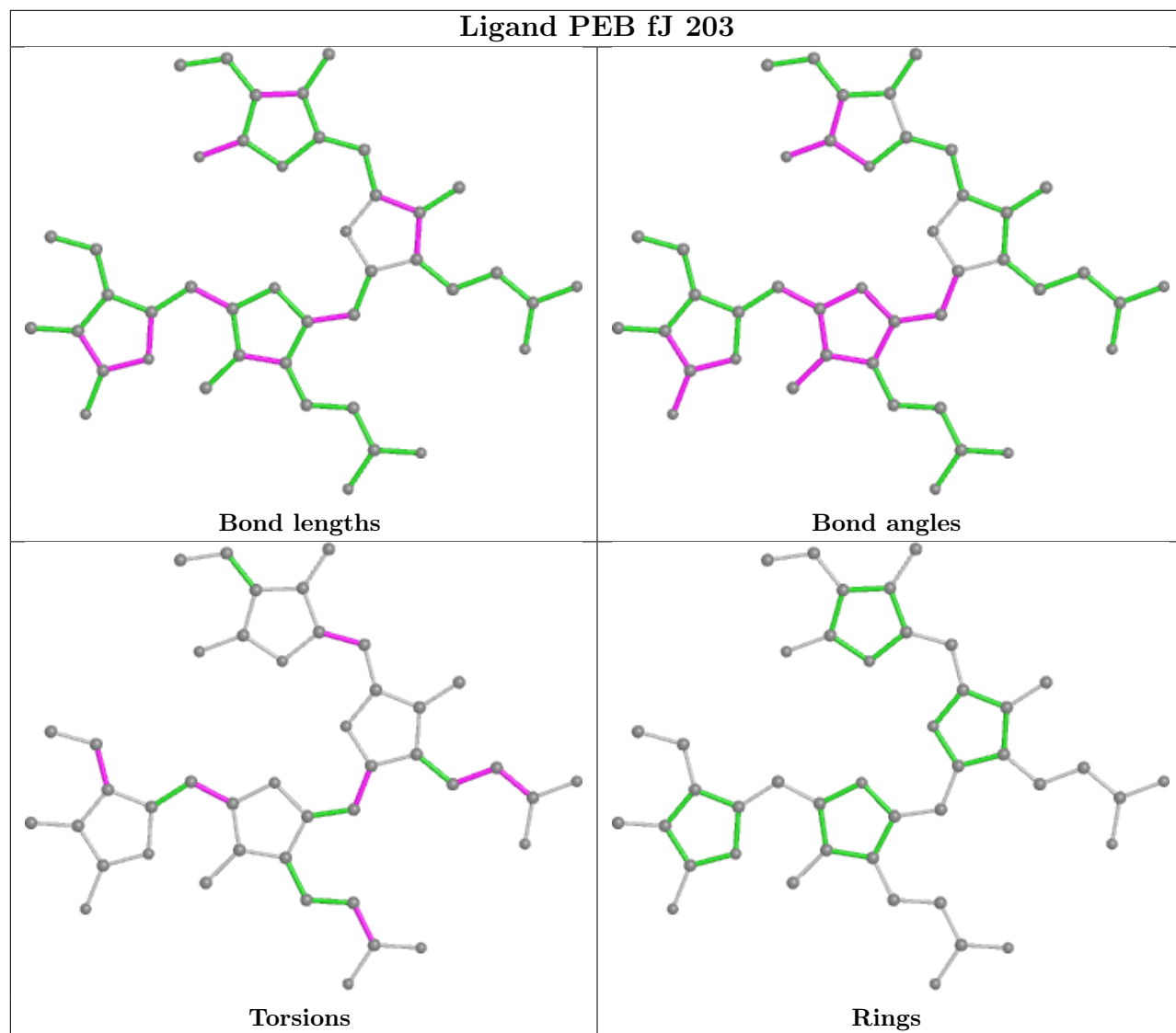
Bond angles

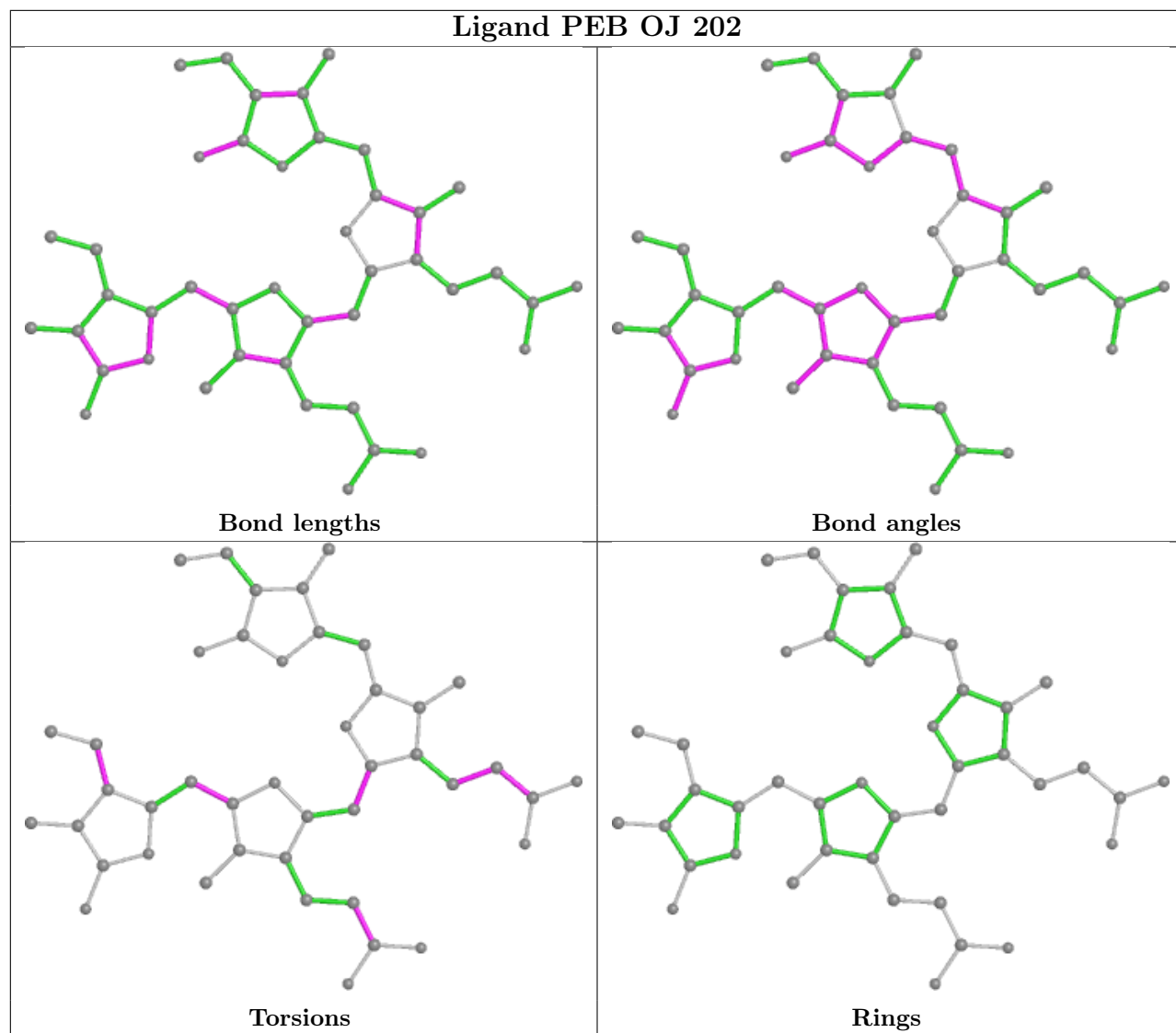


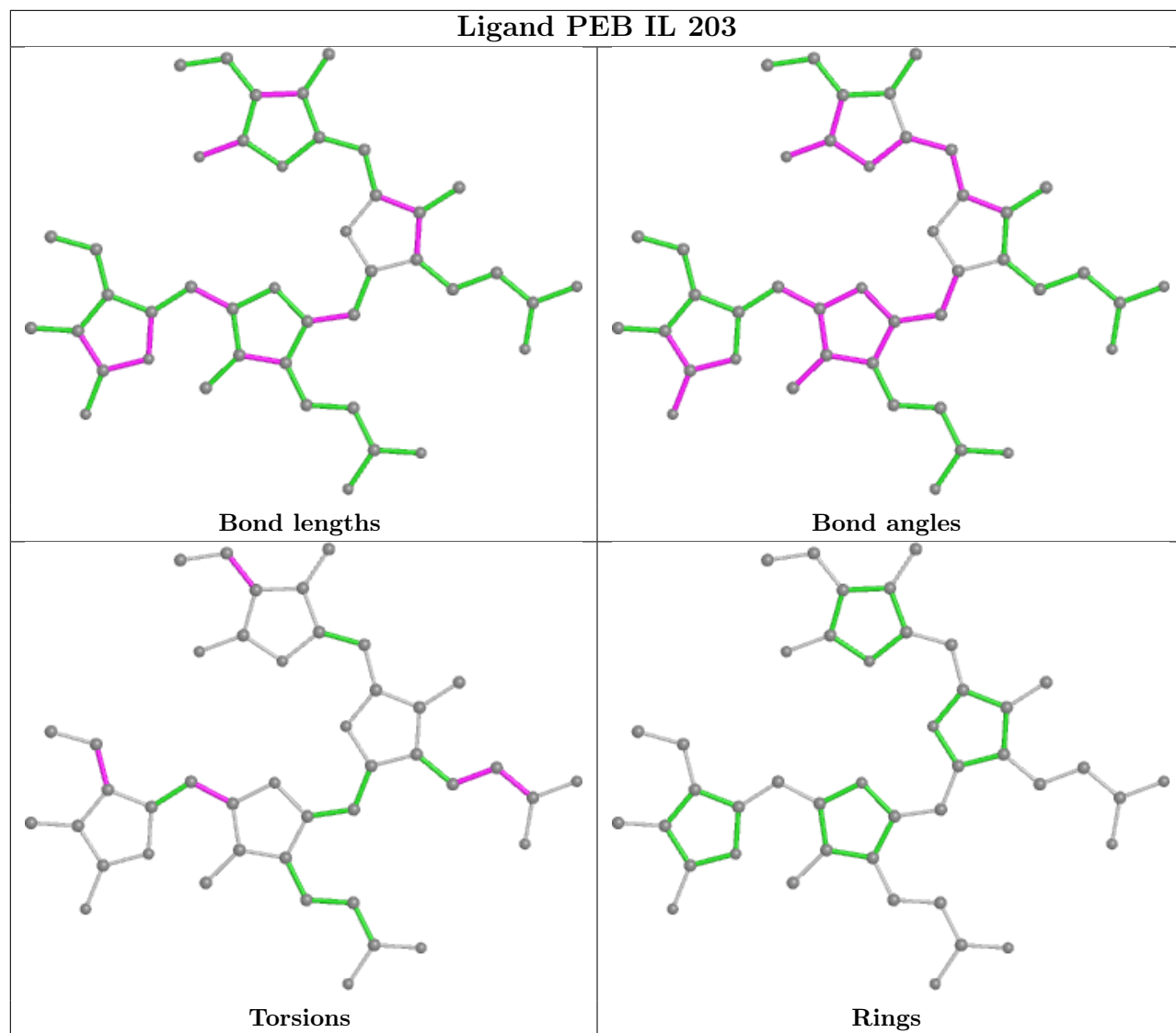
Torsions



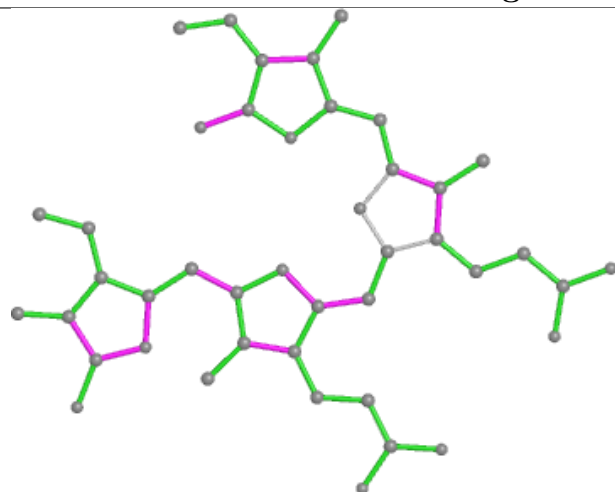
Rings



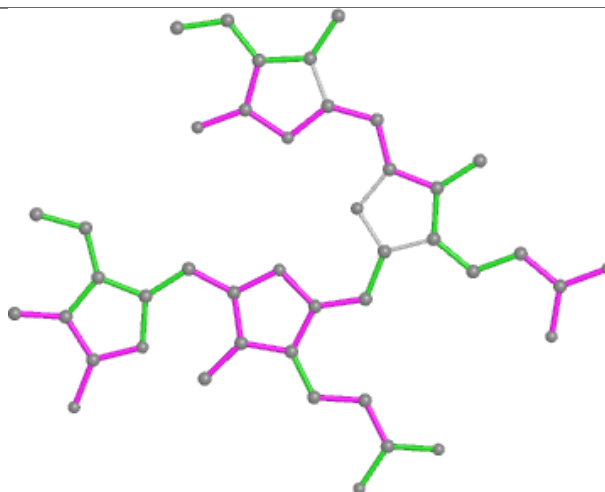




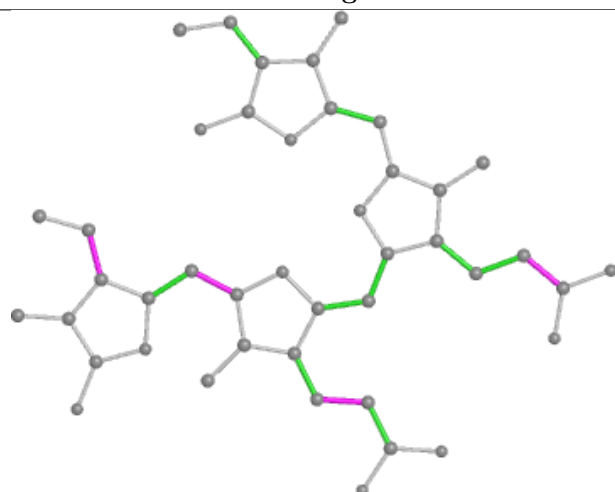
Ligand PEB W2 201



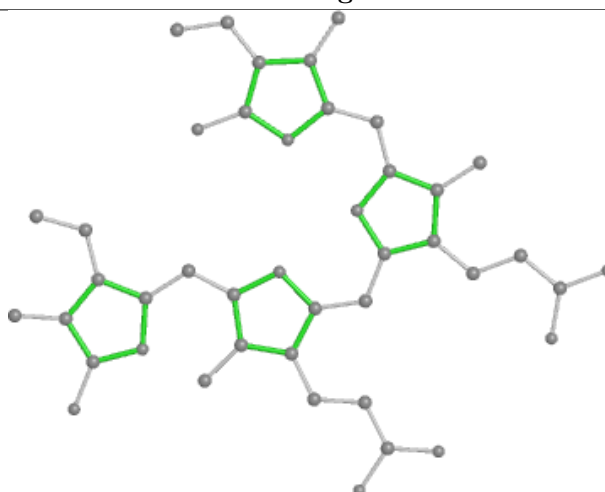
Bond lengths



Bond angles

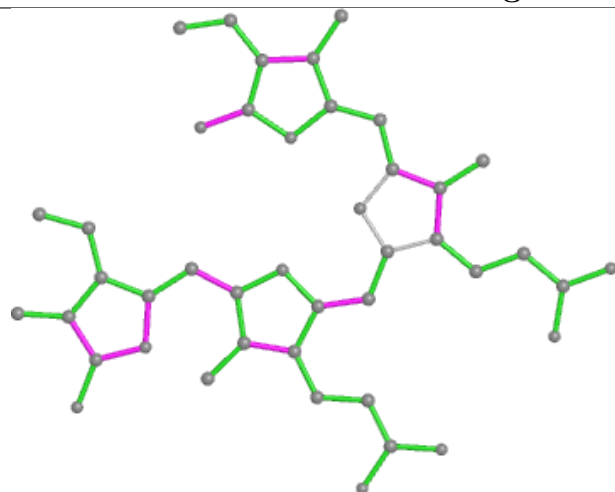


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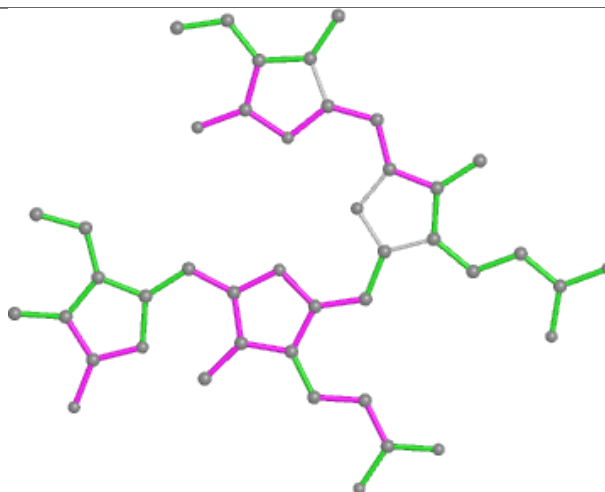


Rings

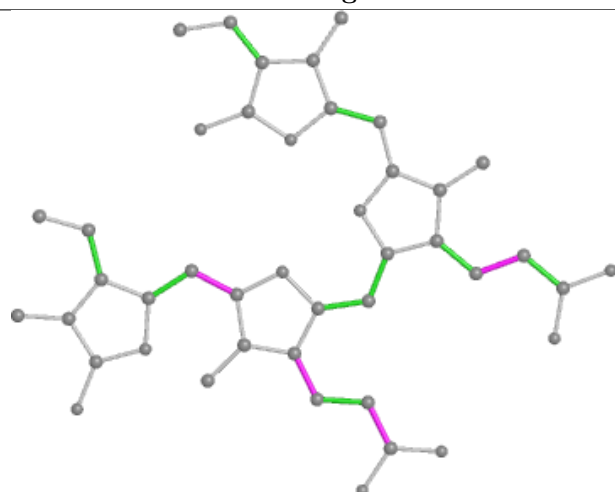
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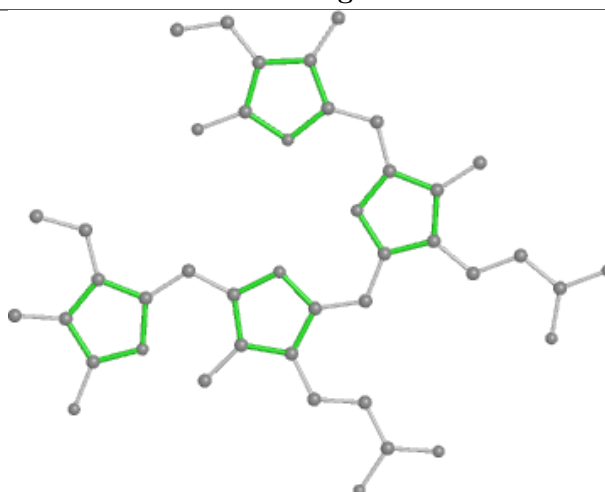
Bond lengths



Bond angles

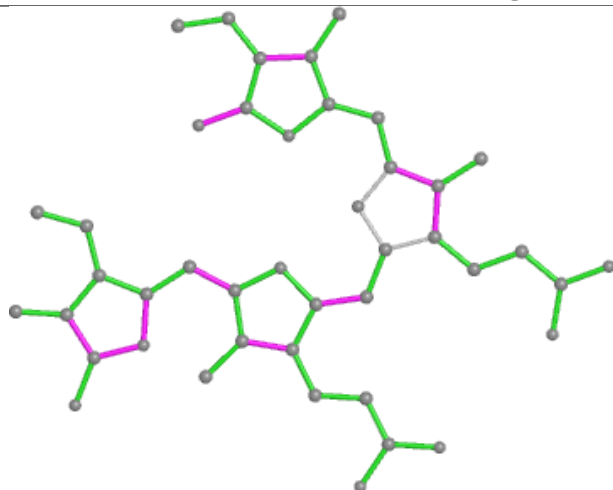


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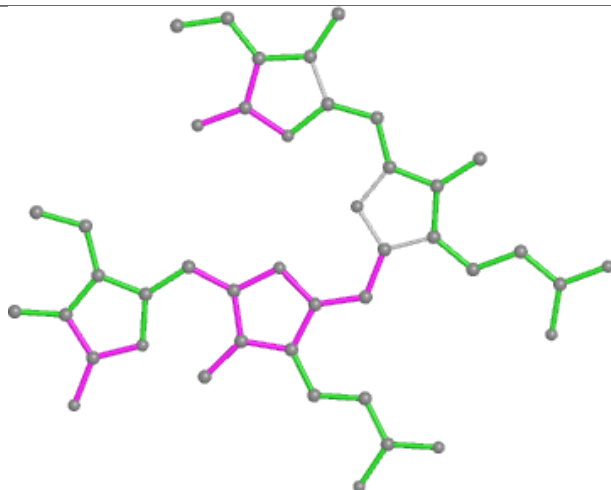


Rings

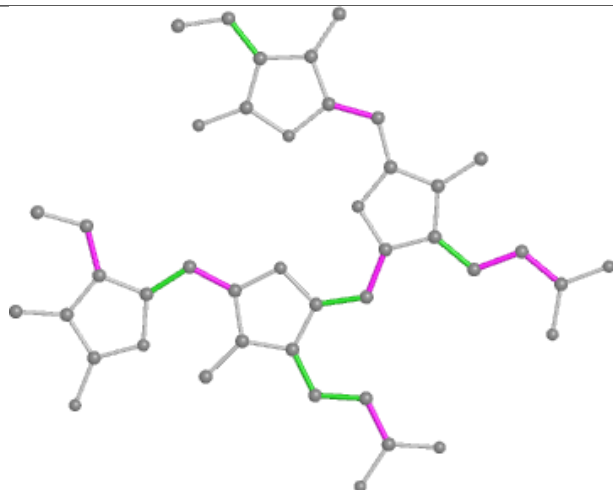
Ligand PEB TJ 203



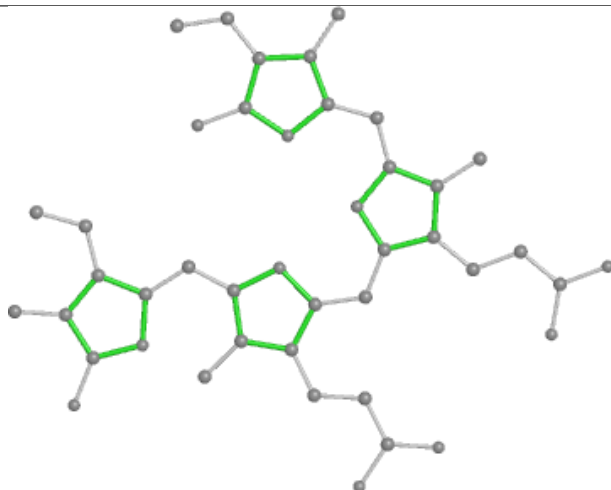
Bond lengths



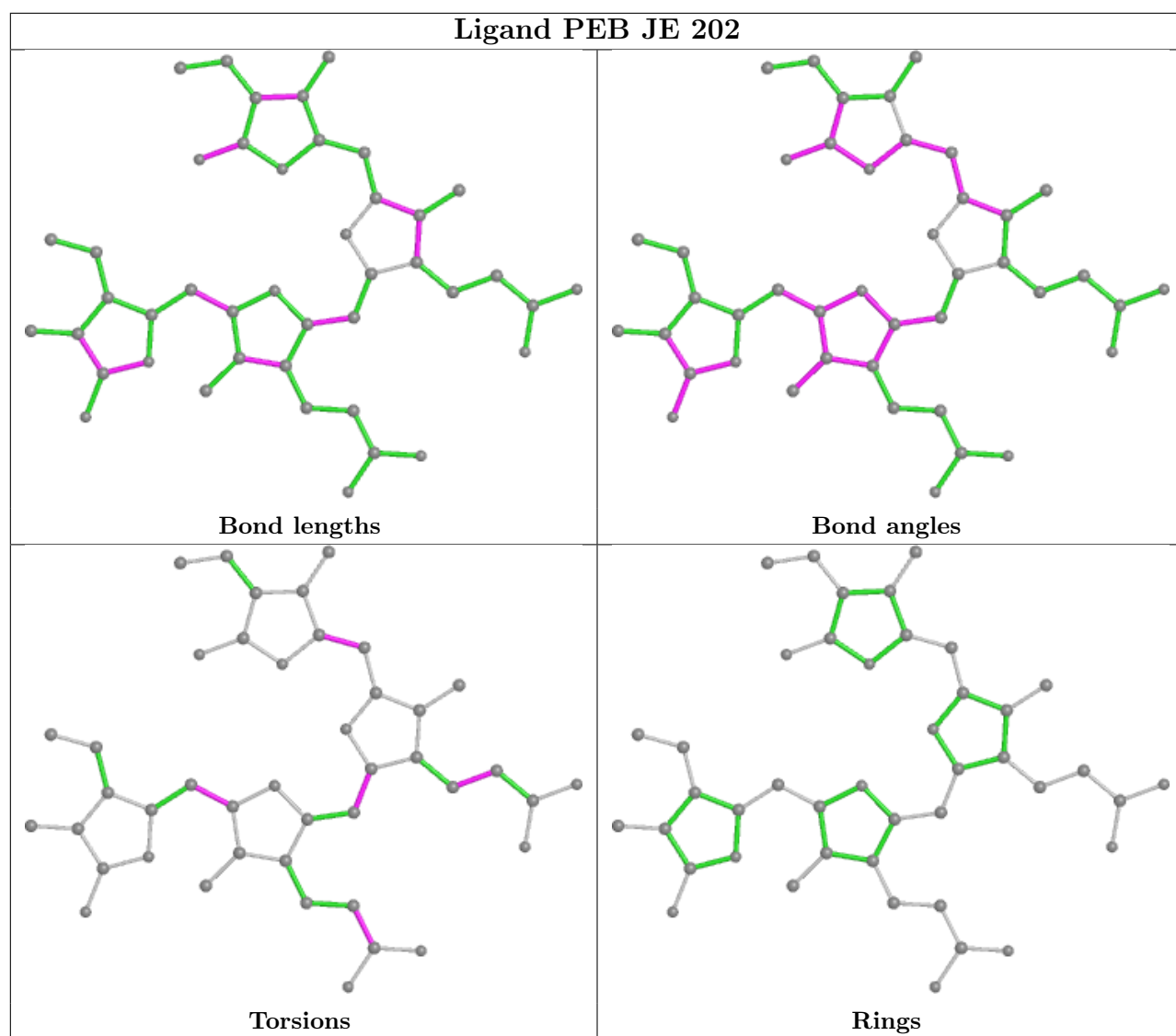
Bond angles

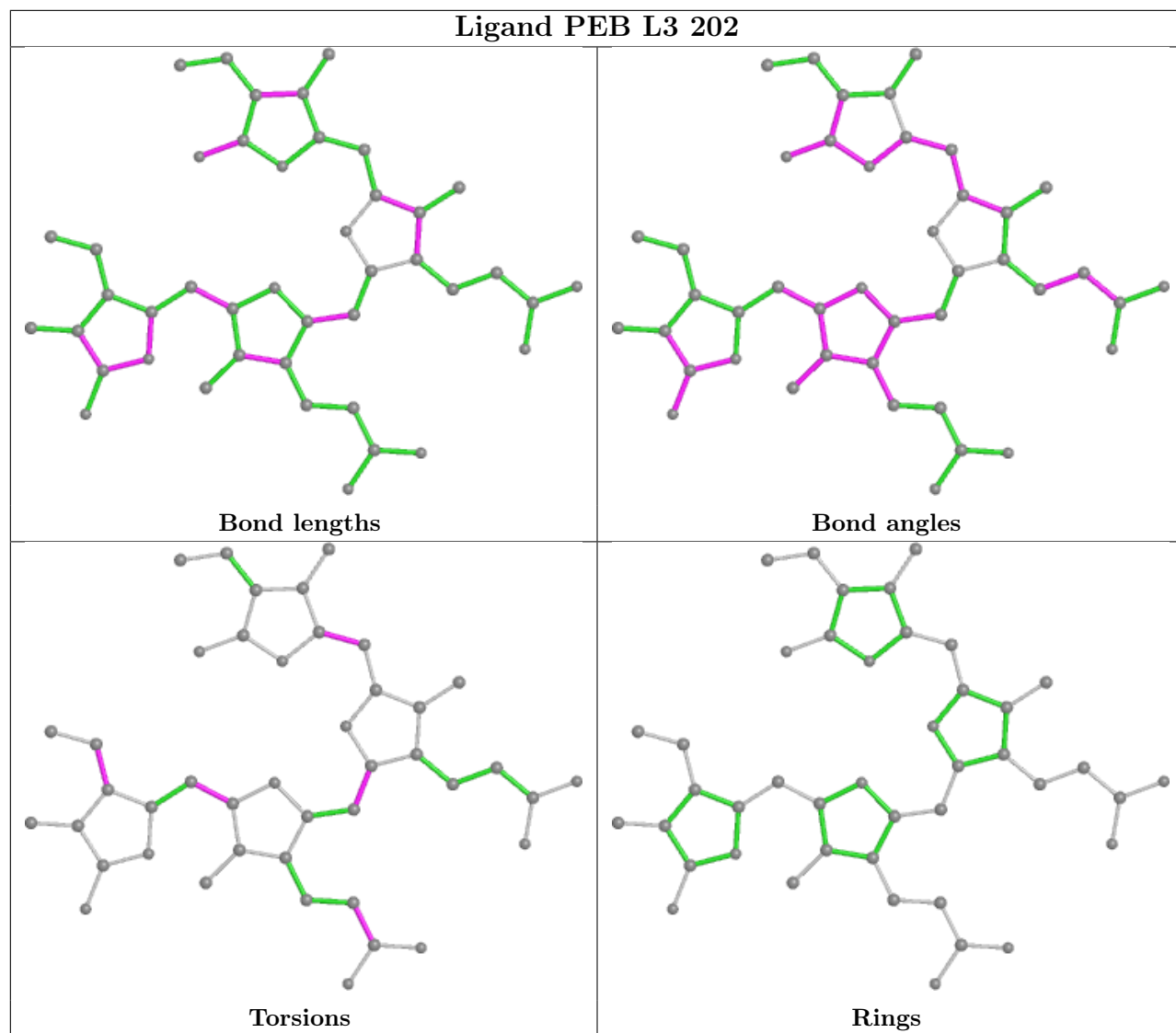


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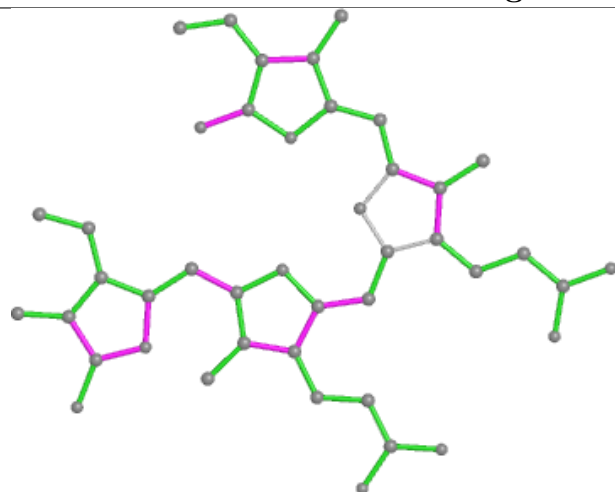


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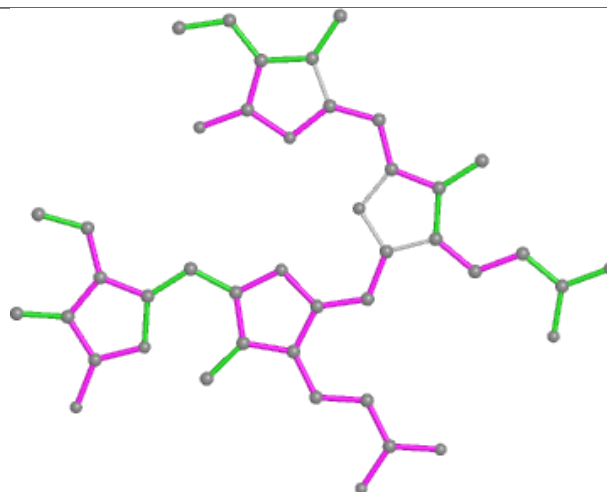




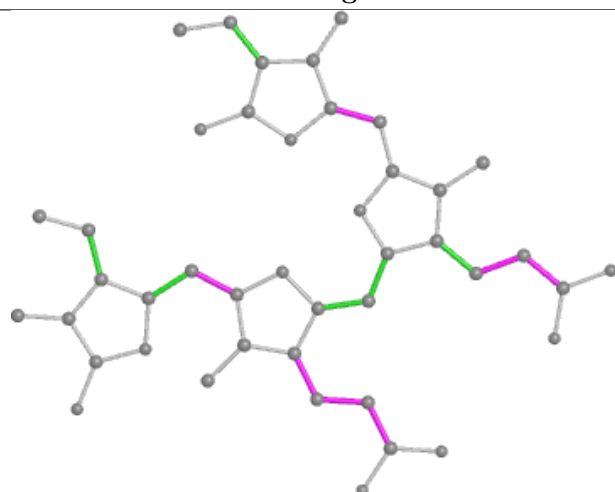
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Bond lengths



Bond angles

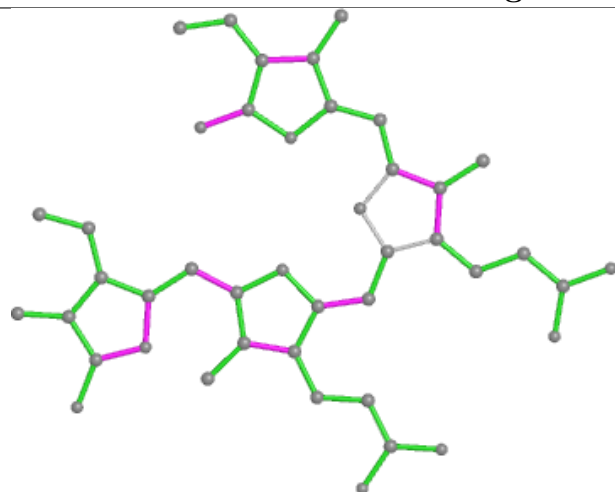


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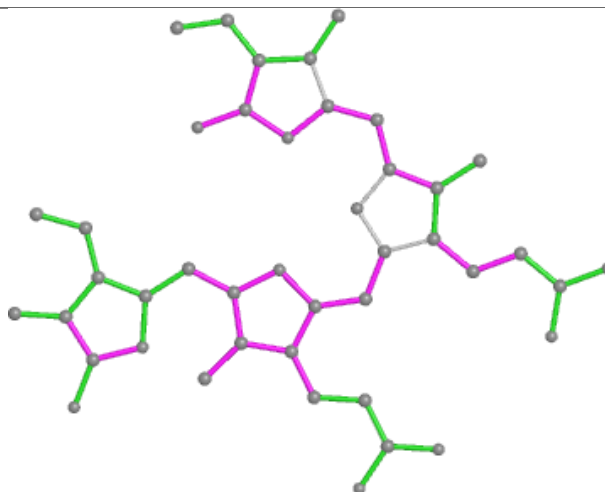


Rings

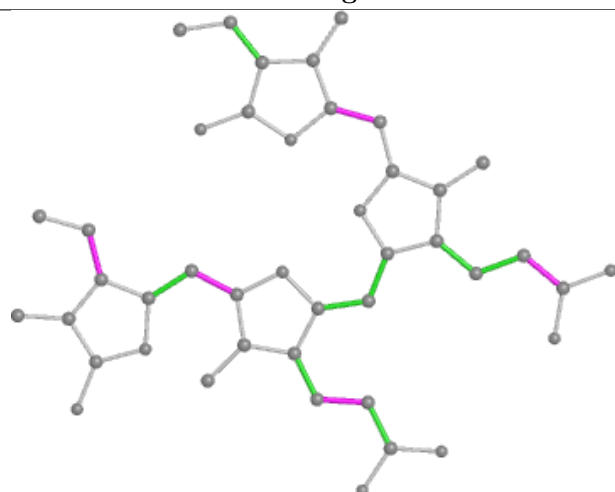
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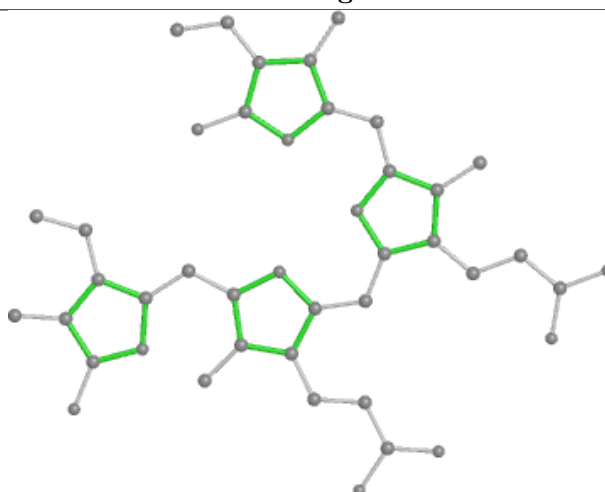
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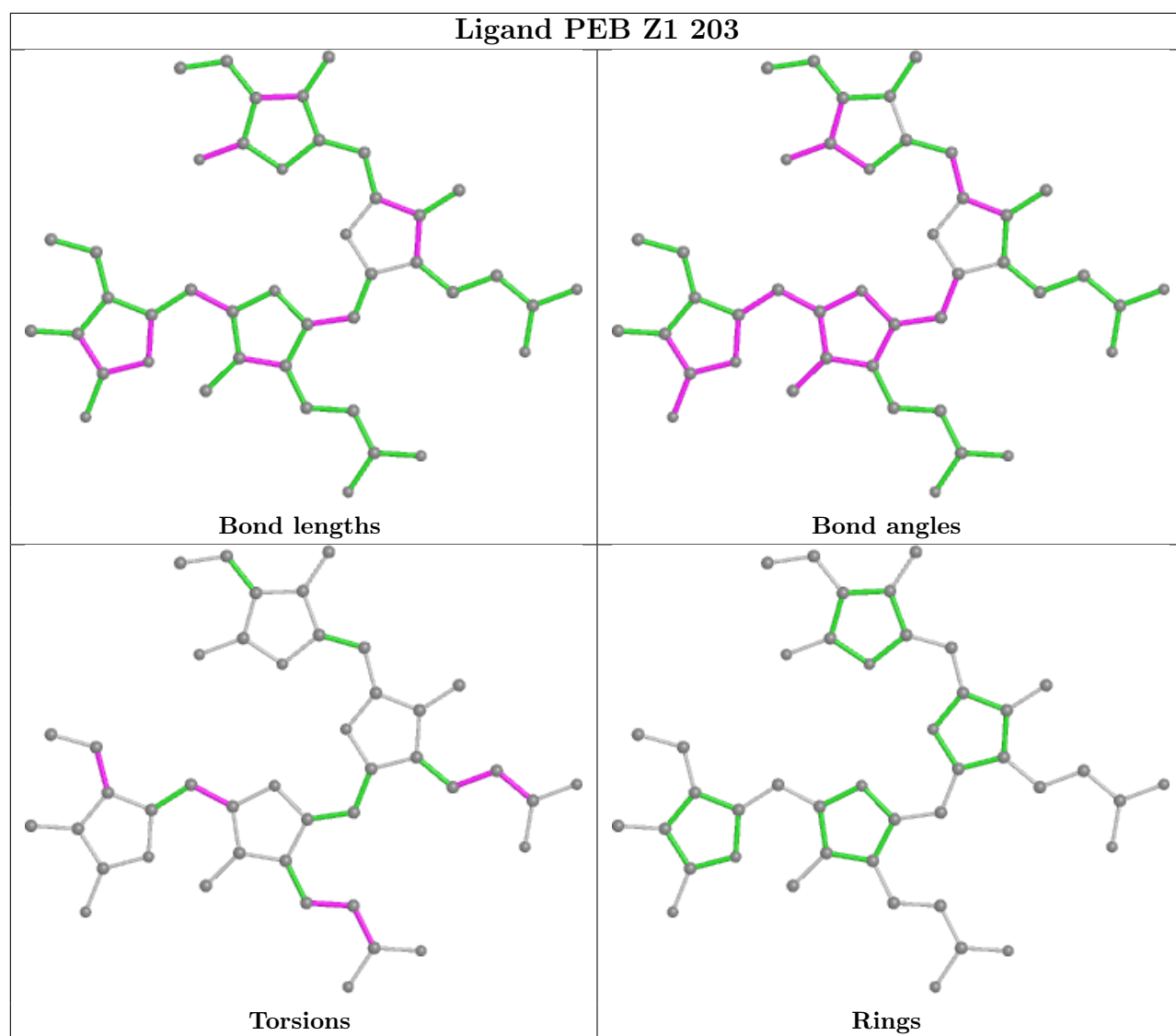
Bond angles



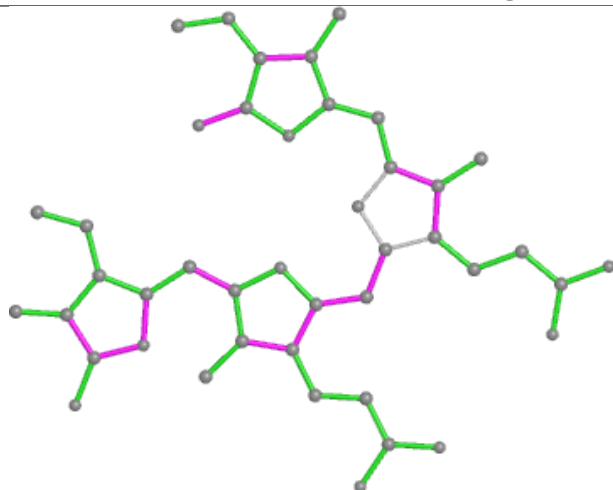
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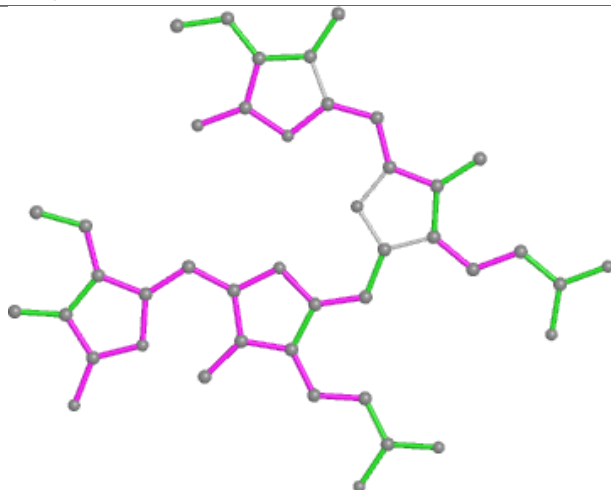
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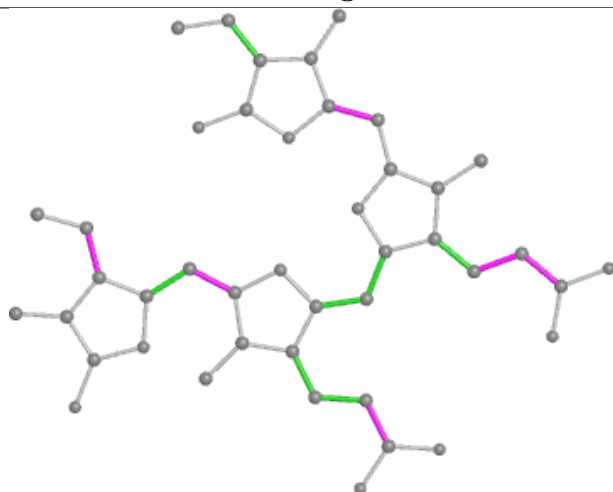
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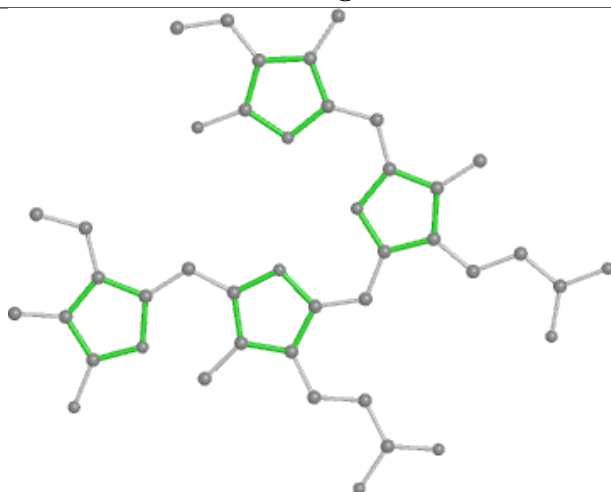
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Bond angles

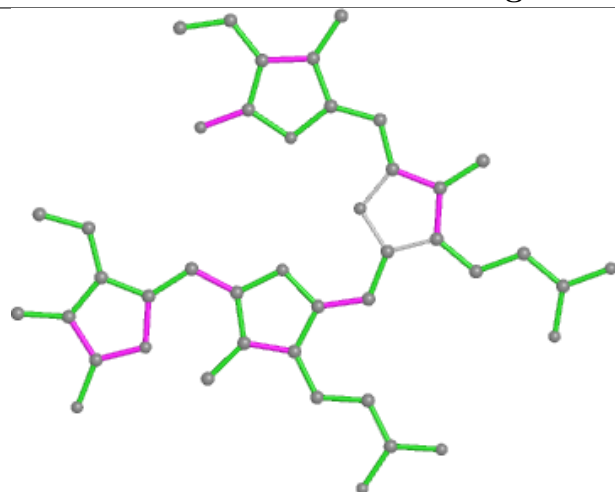


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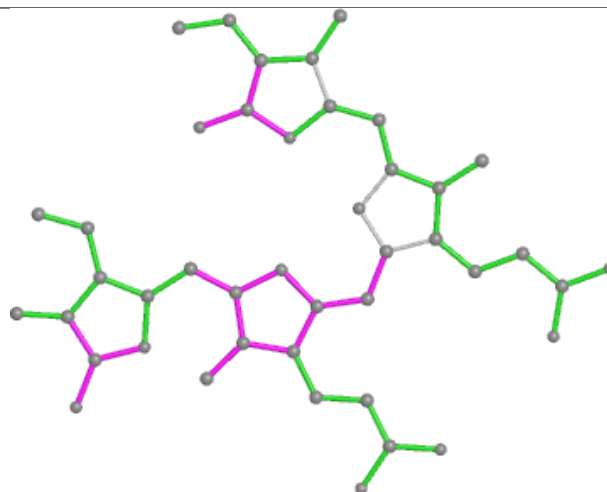


Rings

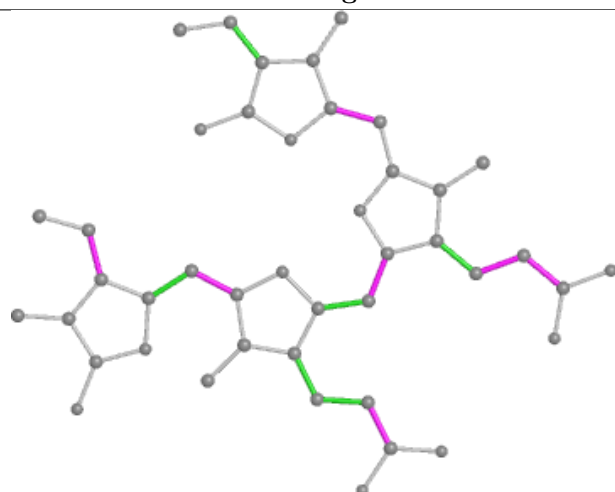
Ligand PEB XL 203



Bond lengths



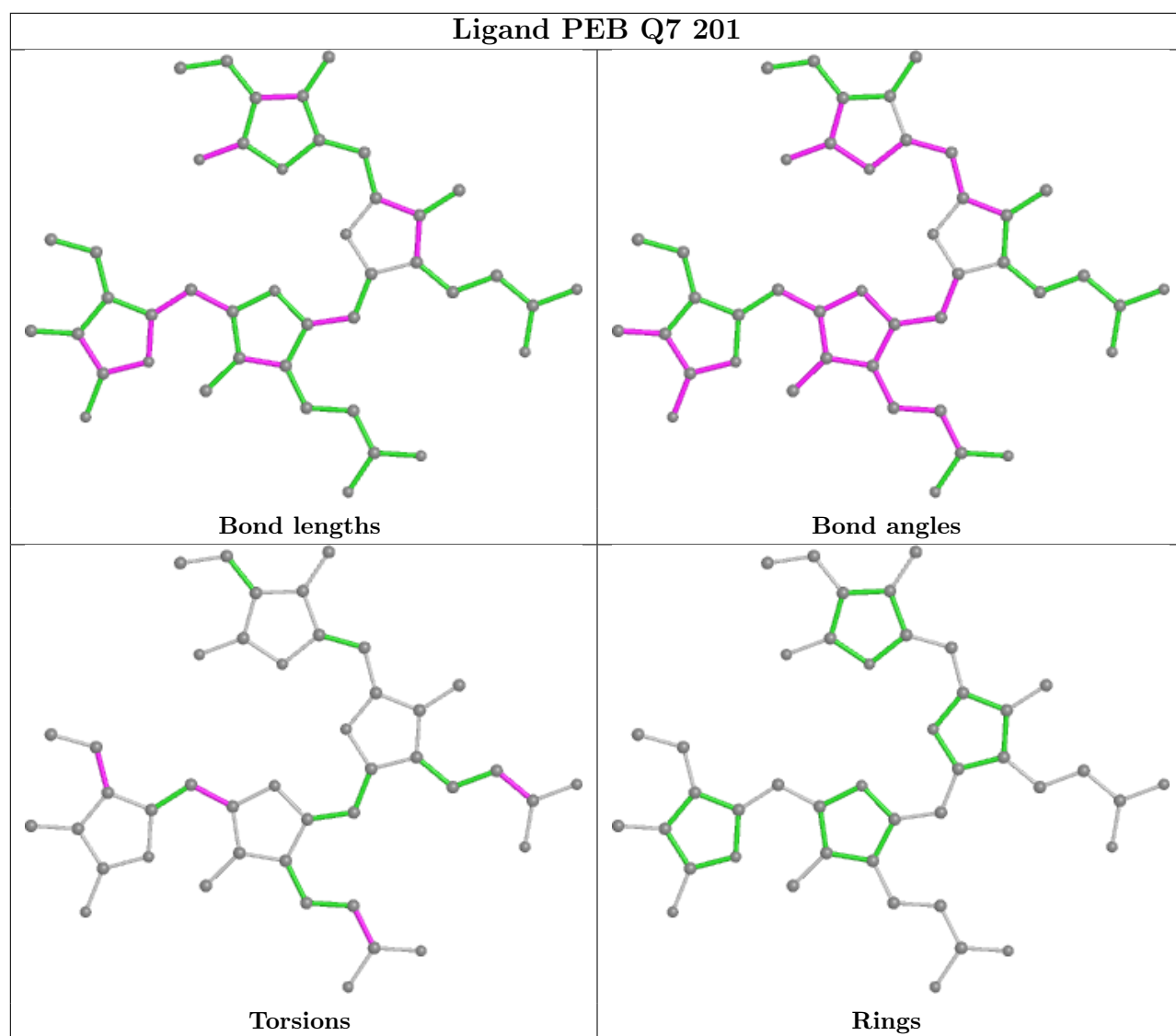
Bond angles

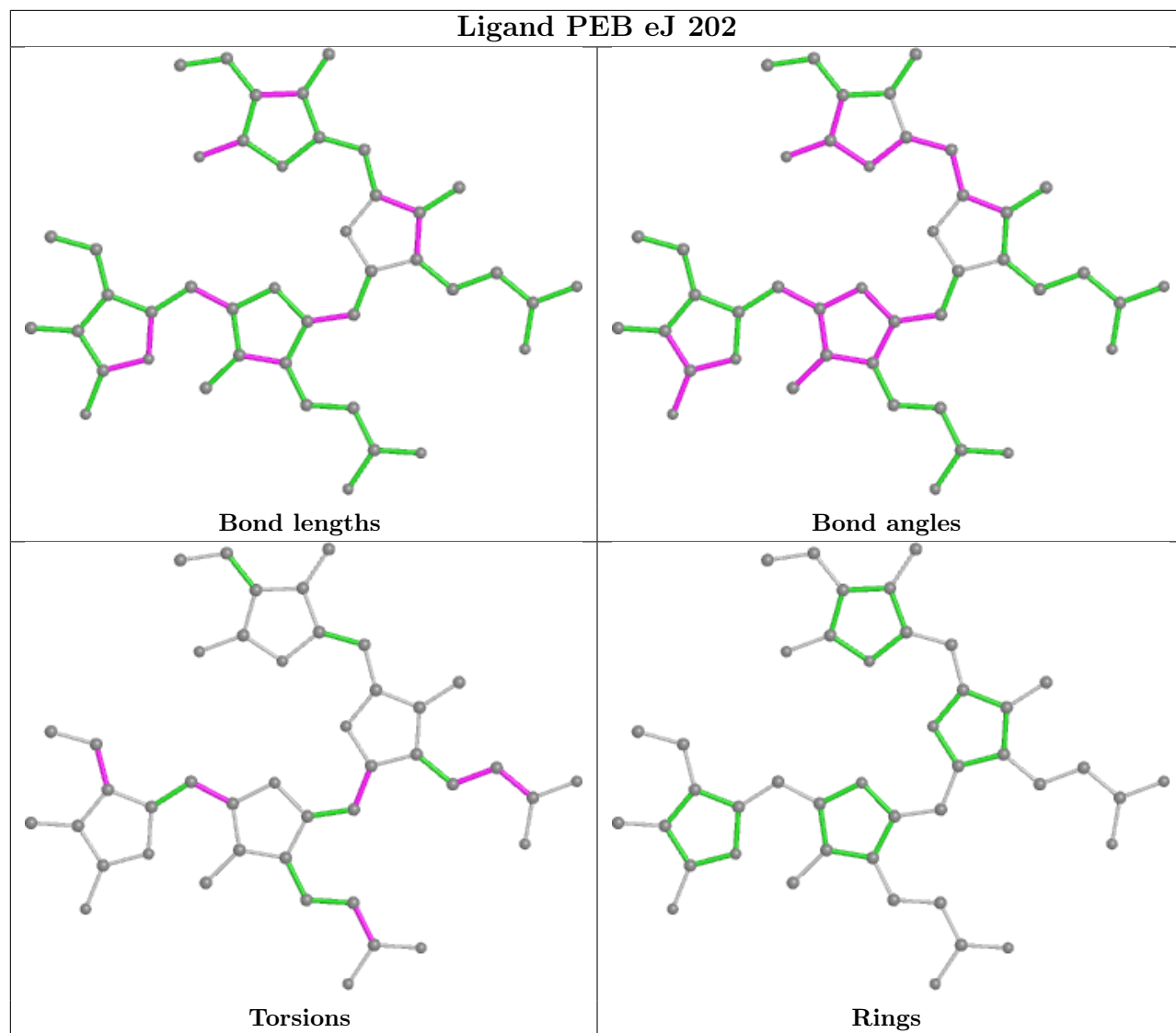


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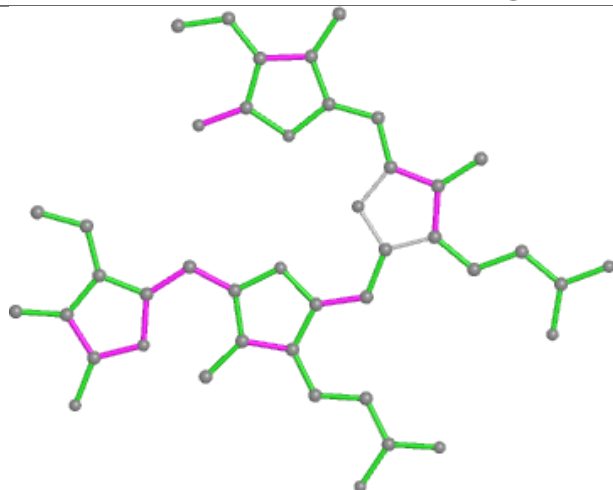


Rings

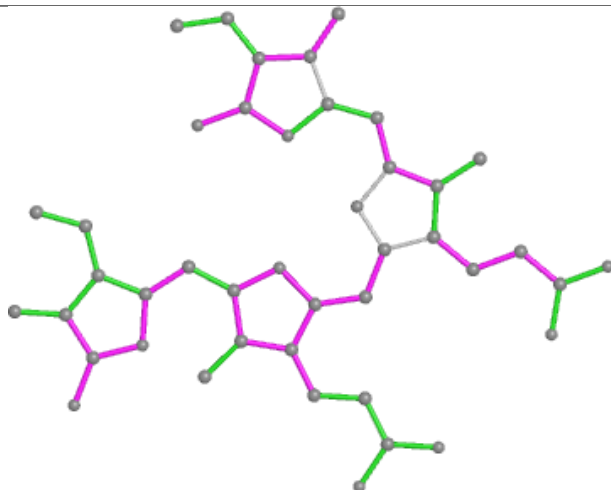




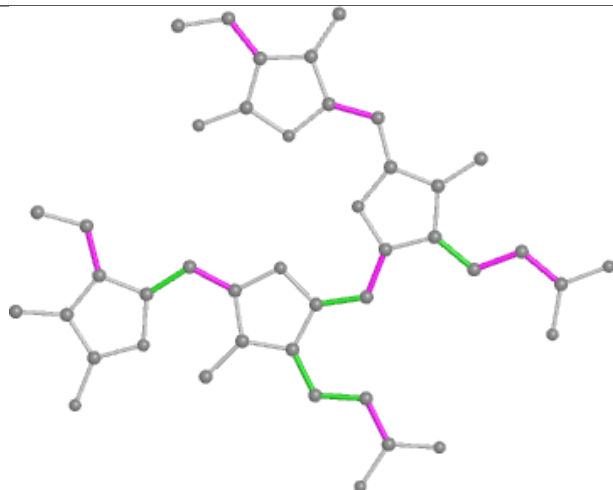
Ligand PEB K4 202



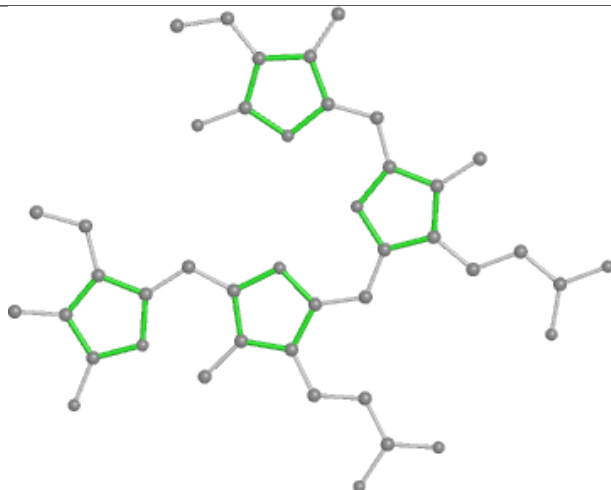
Bond lengths



Bond angles

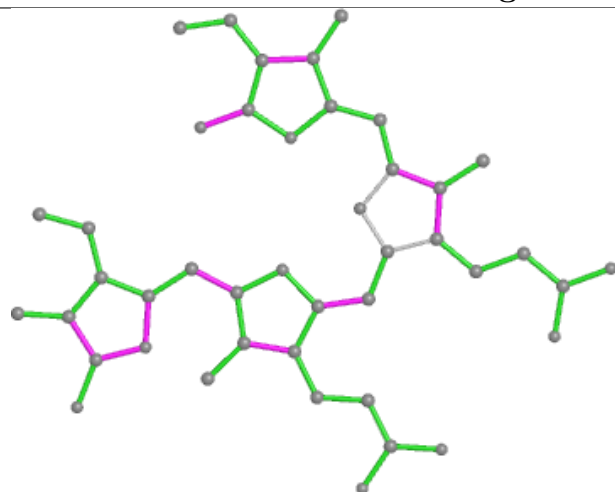


Torsions

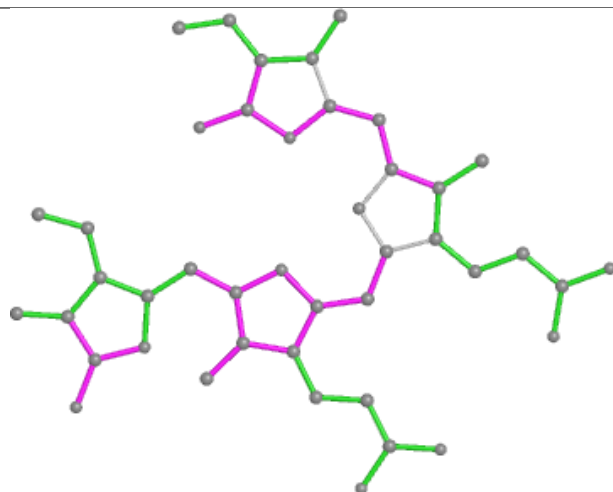


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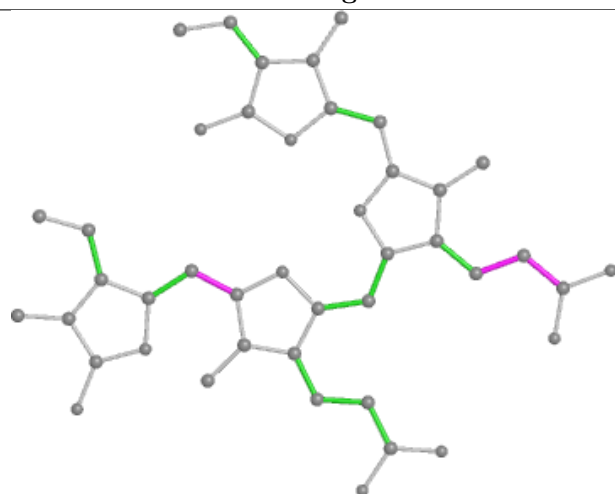
Ligand PEB UM 201



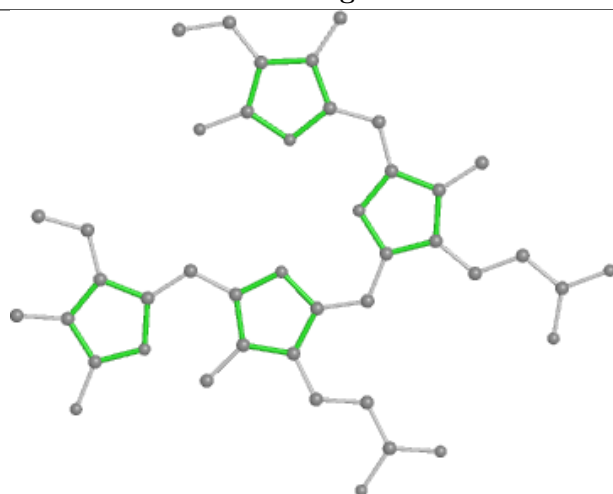
Bond lengths



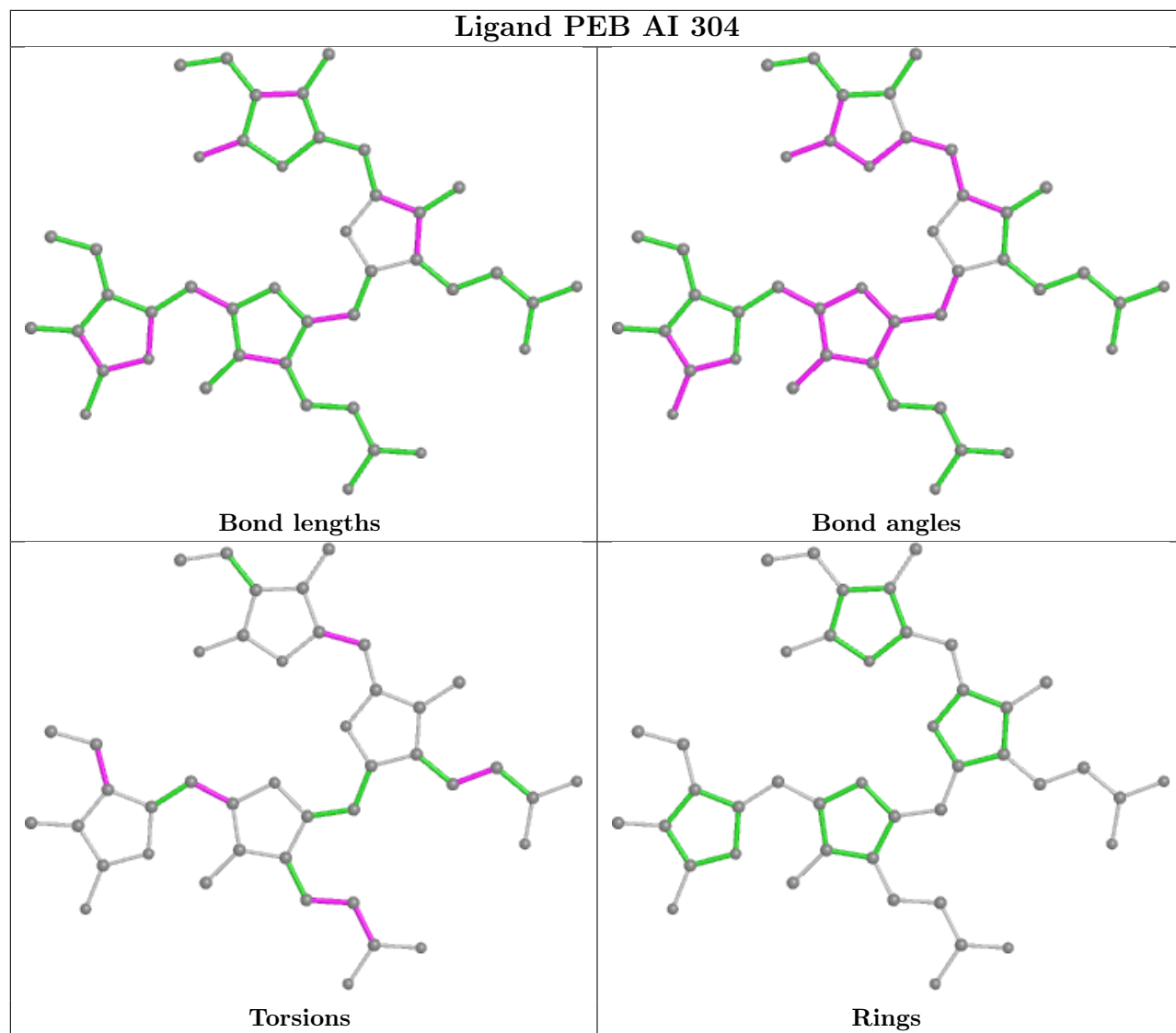
Bond angles



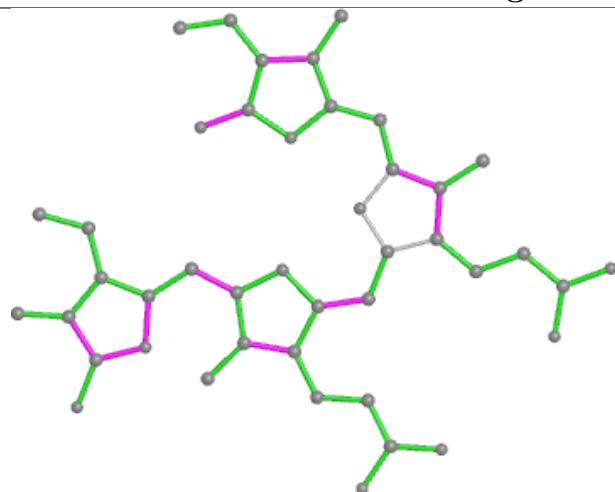
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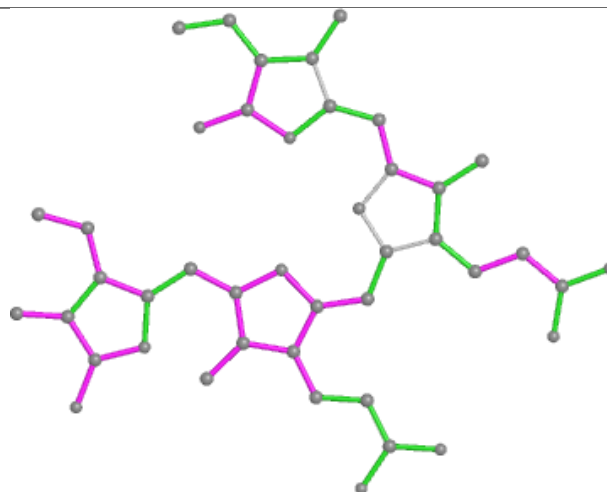
Rings



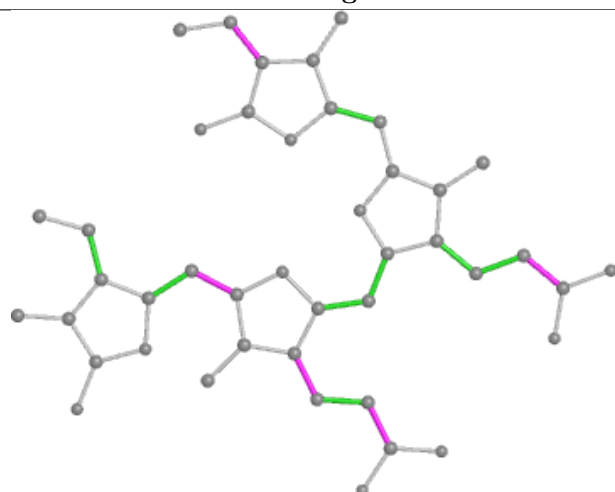
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Bond lengths



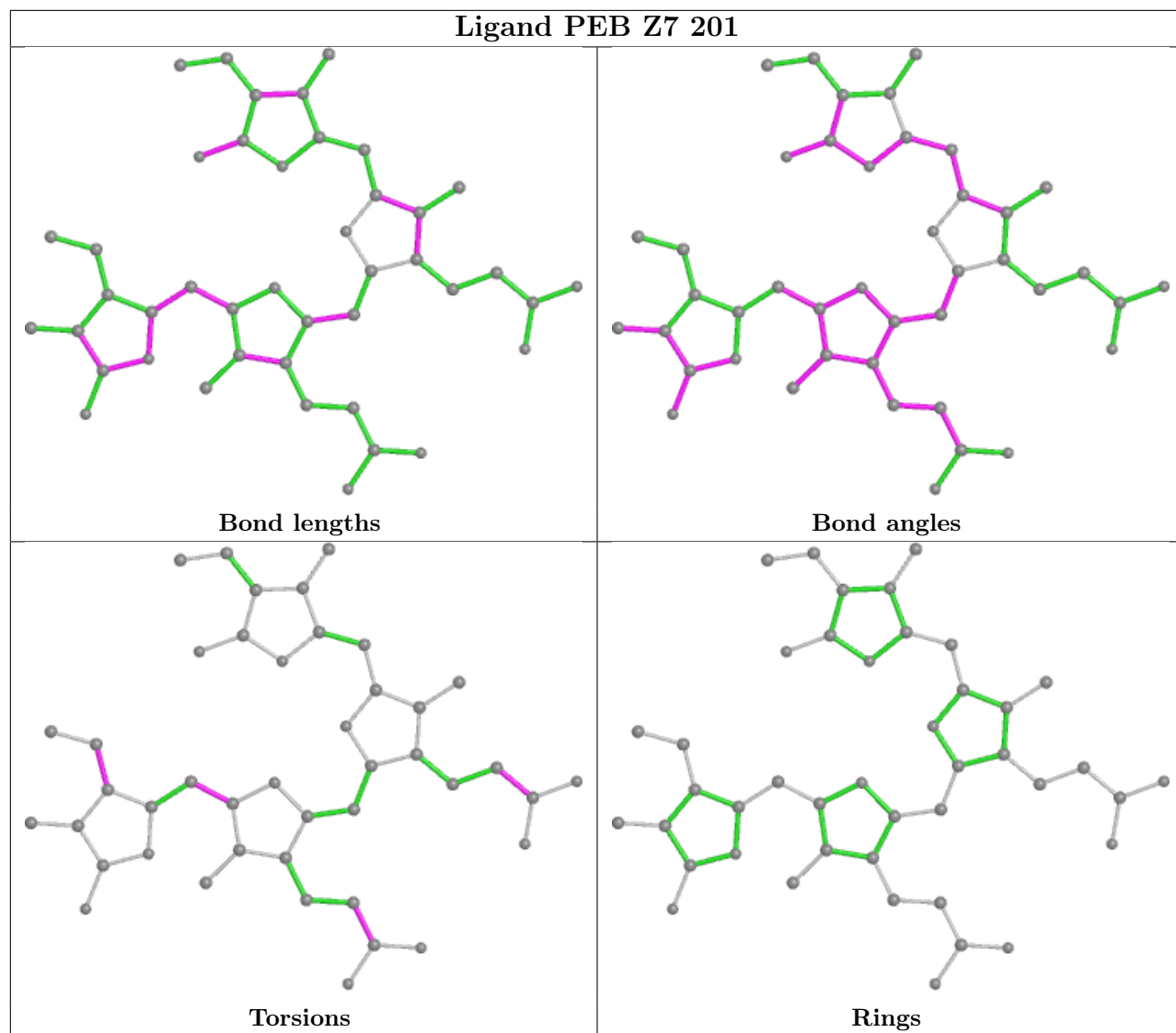
Bond angles

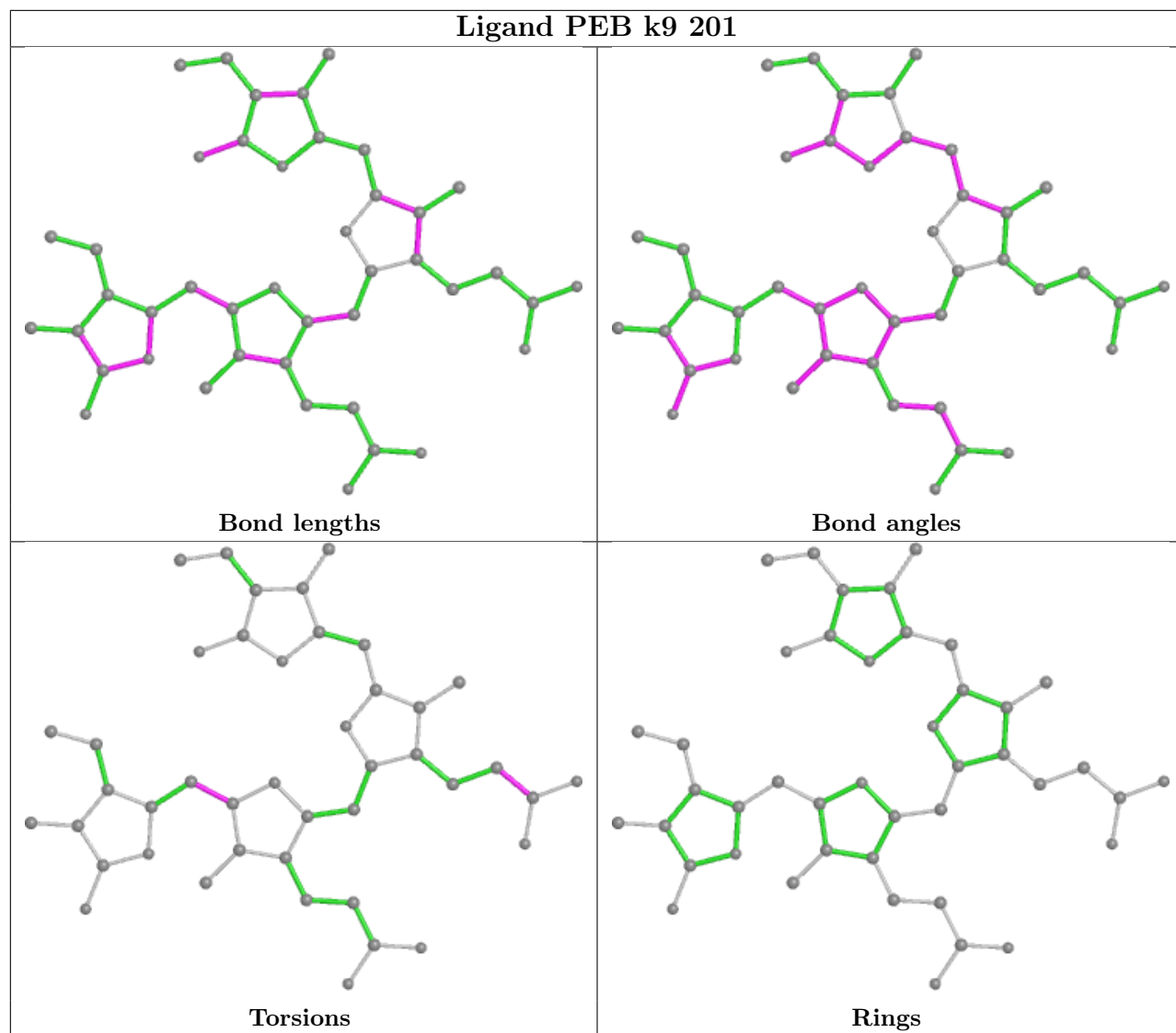


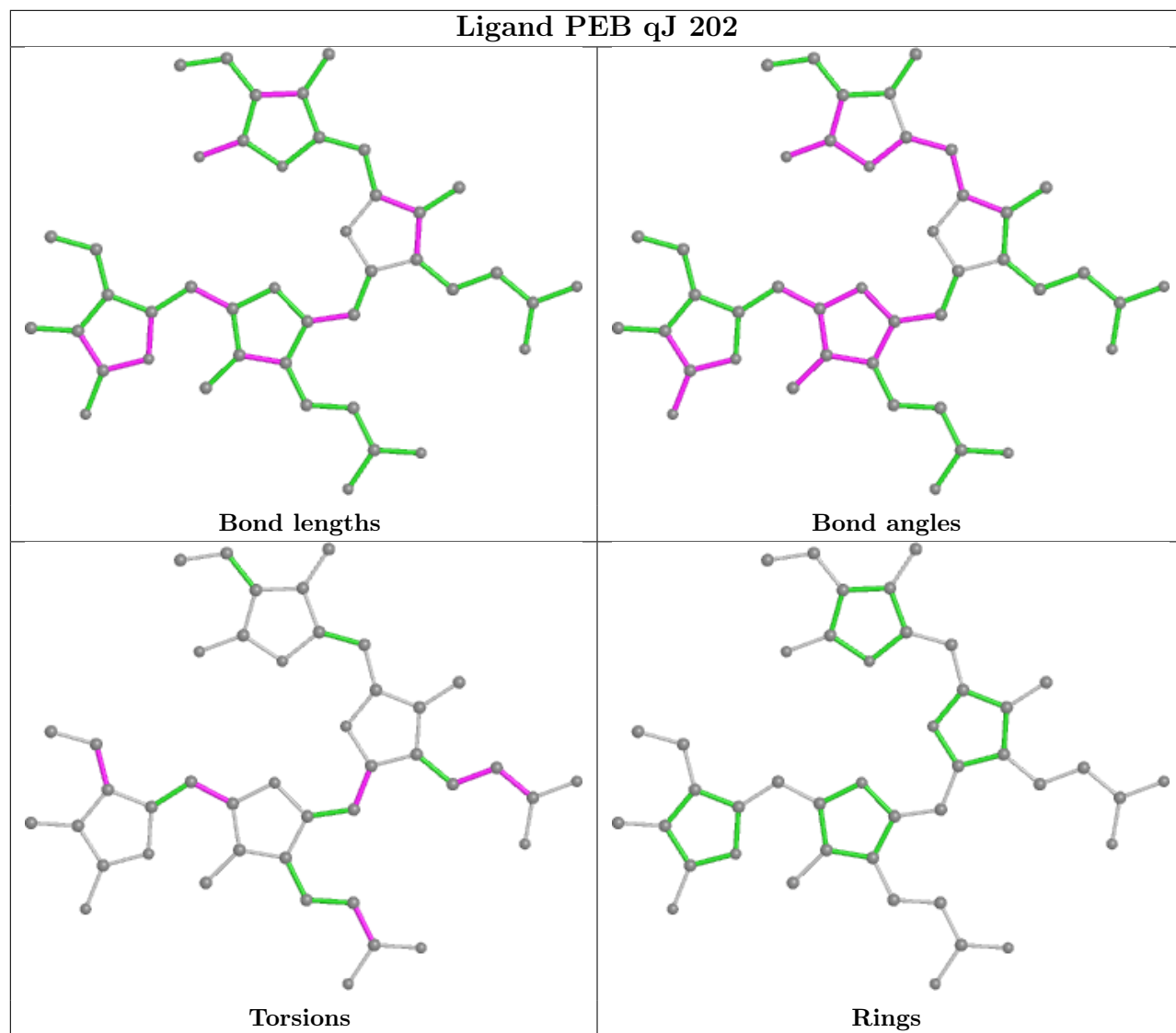
Torsions



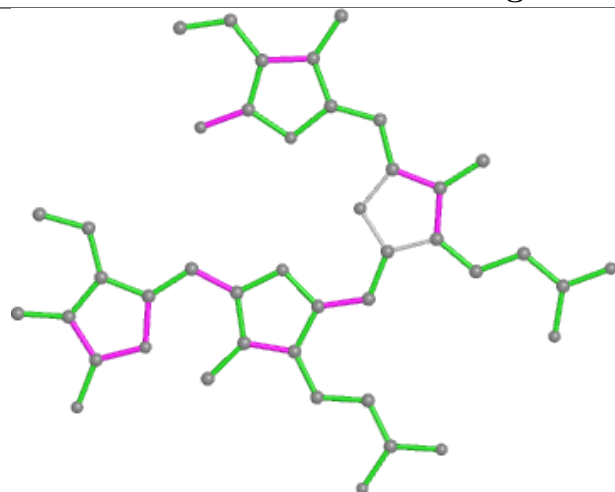
Rings



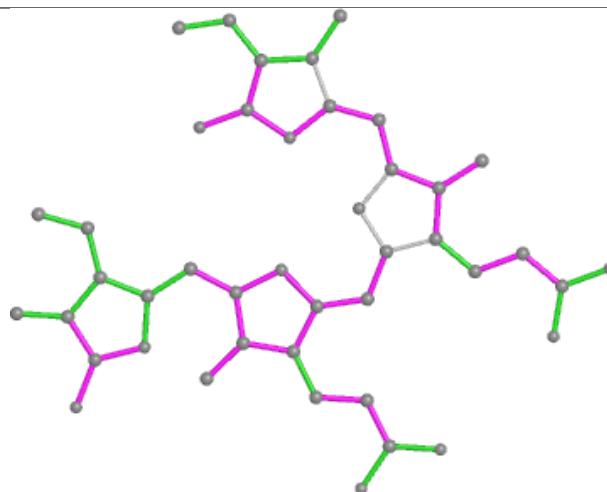




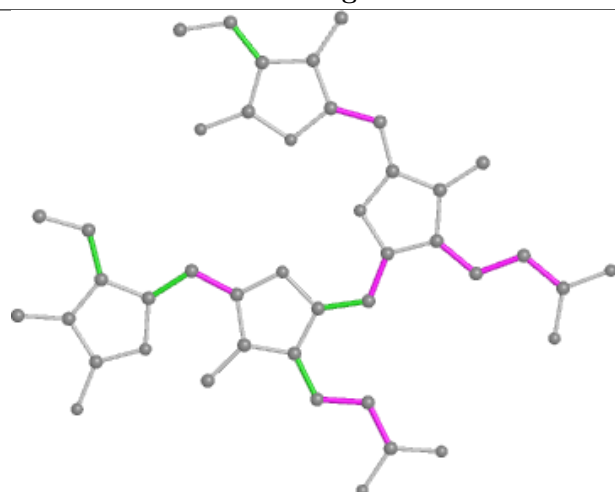
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Bond lengths



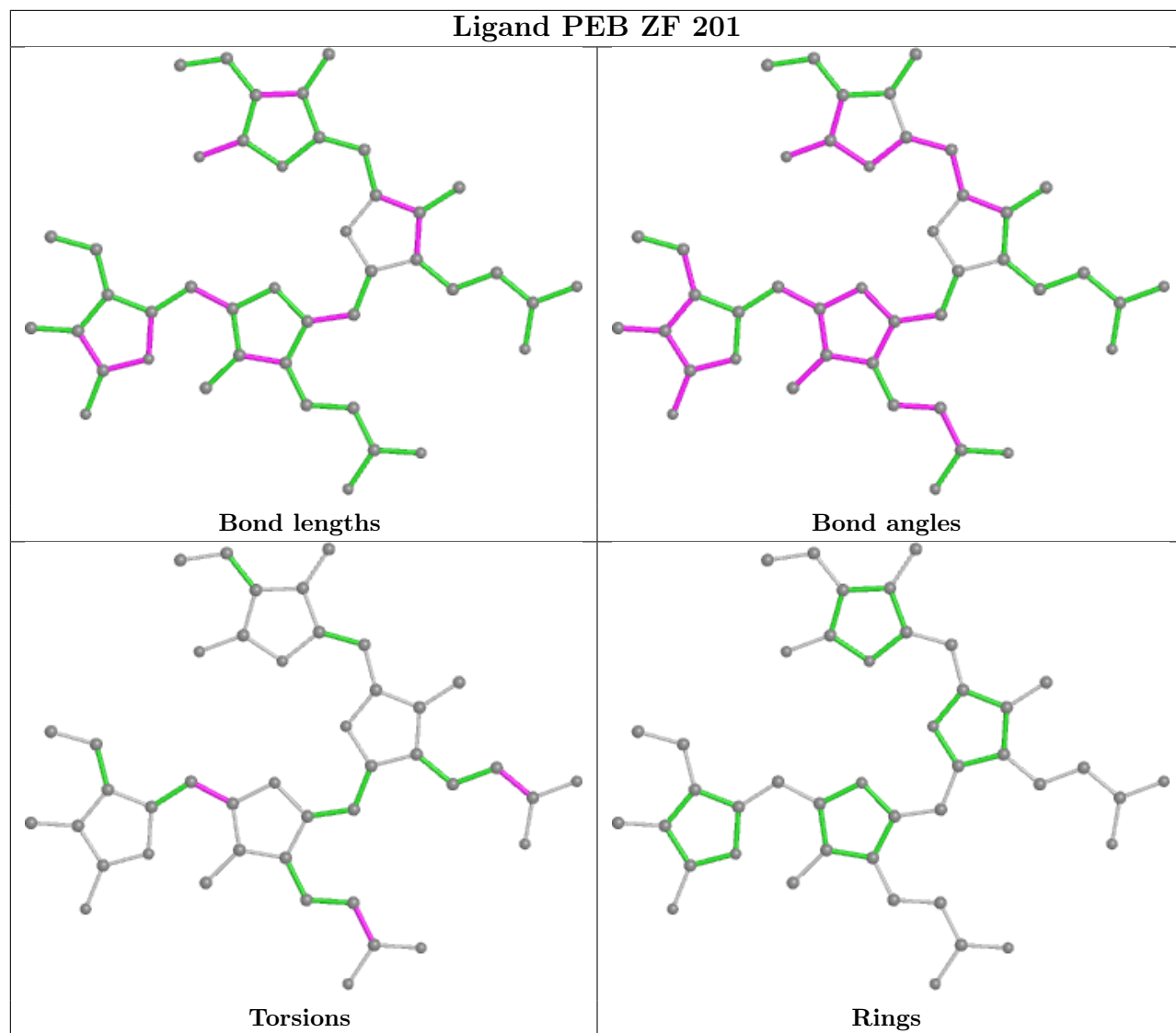
Bond angles

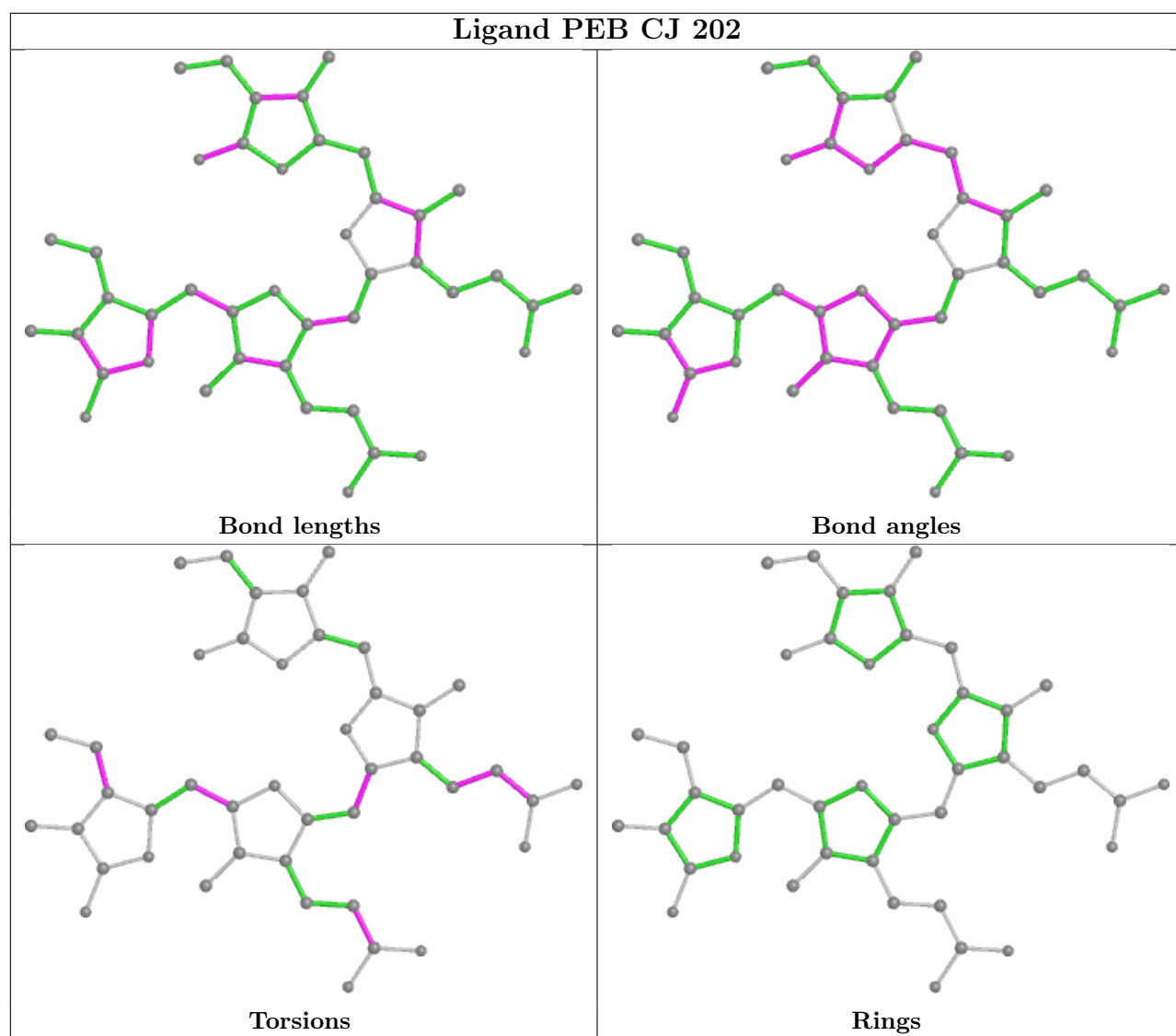


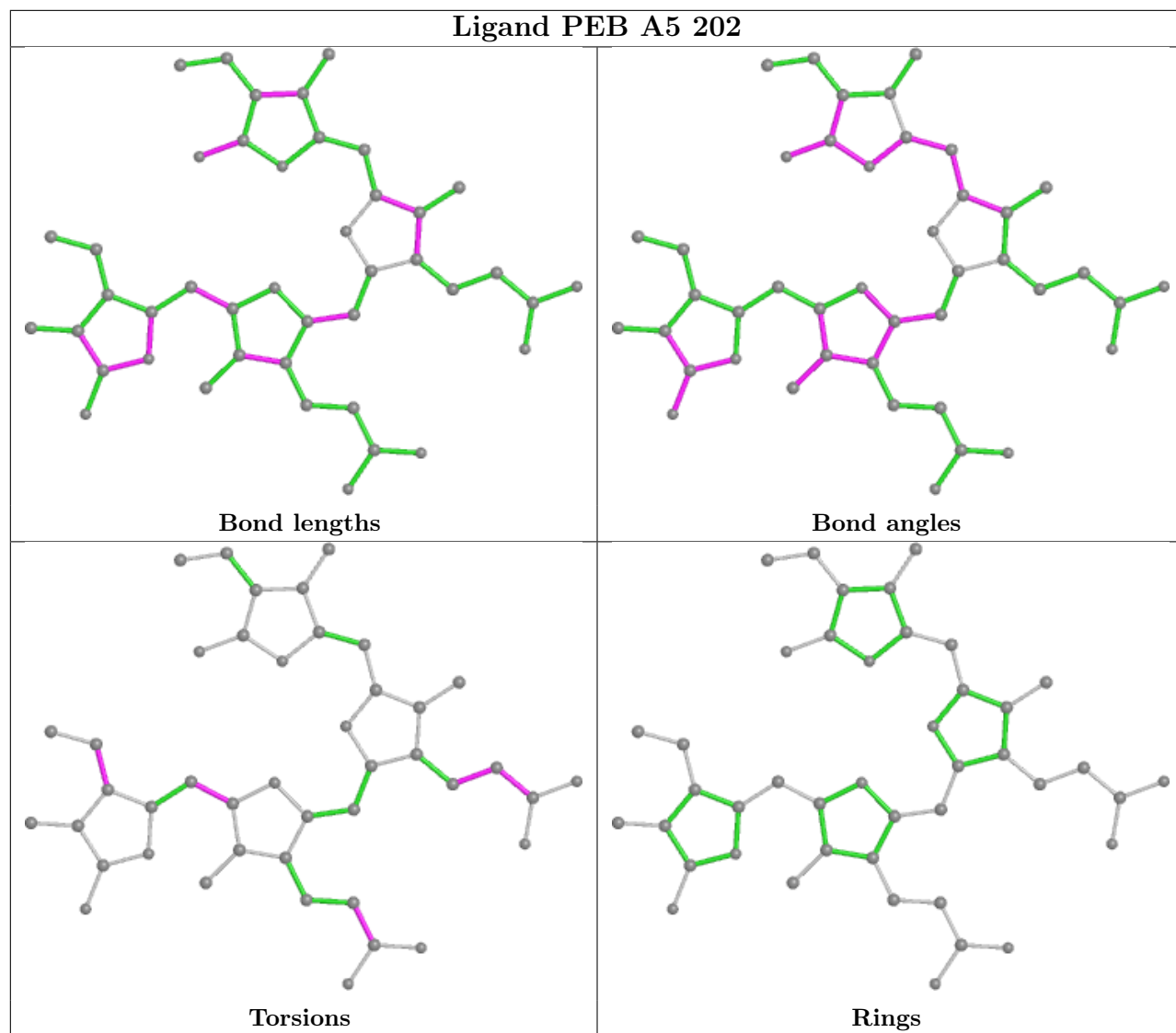
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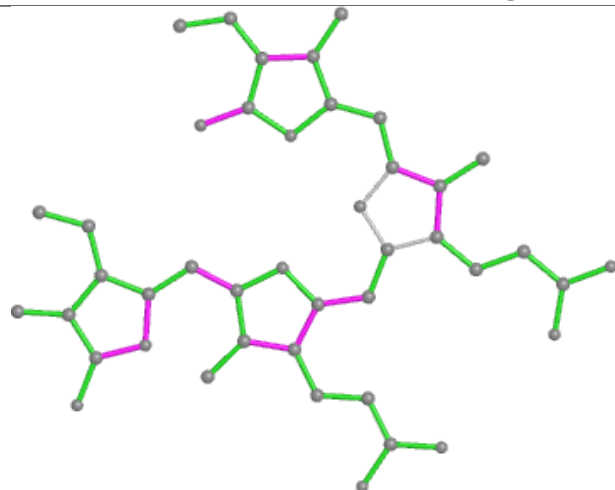
Rings



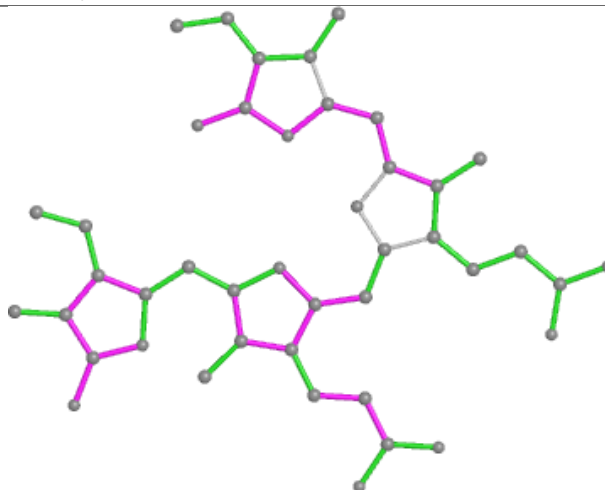




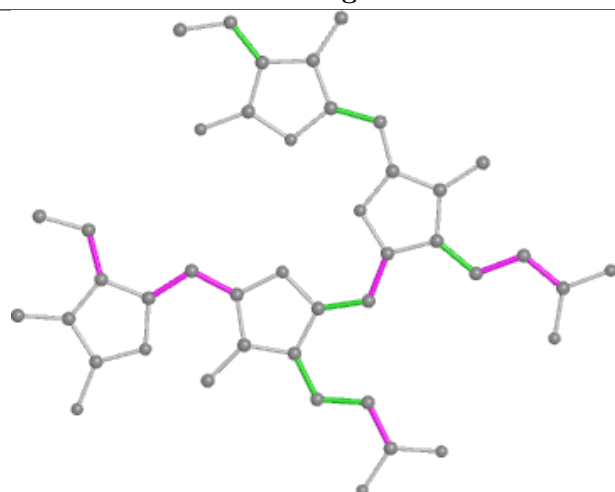
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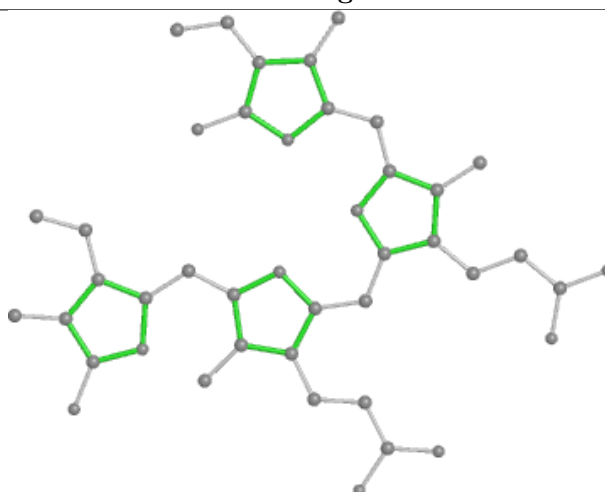
Bond lengths



Bond angles

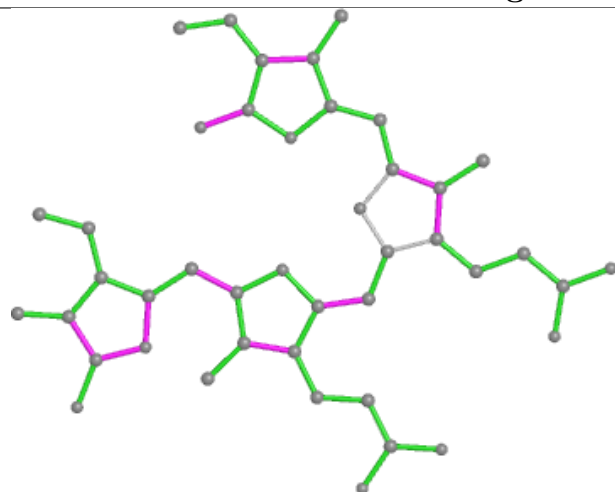


Torsions

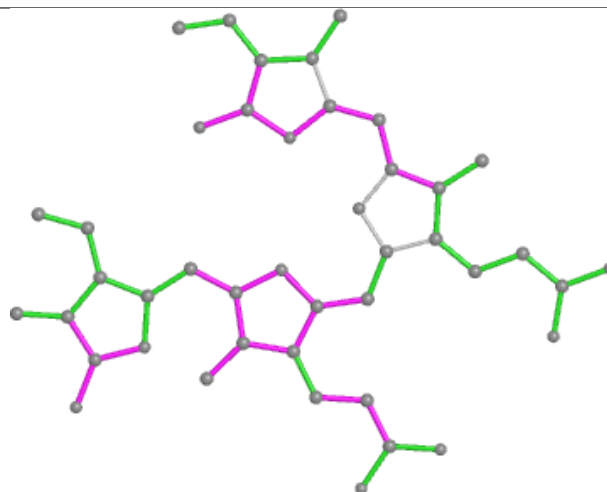


Rings

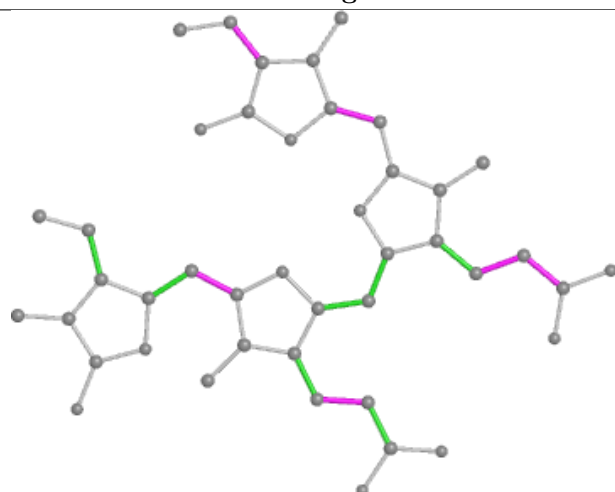
Ligand PEB JG 201



Bond lengths



Bond angles

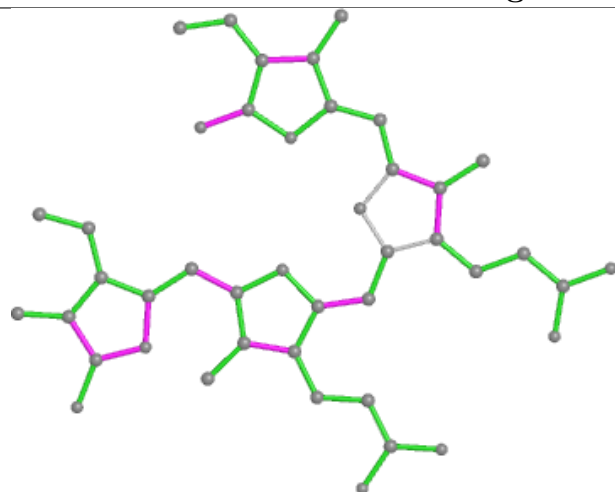


Torsions

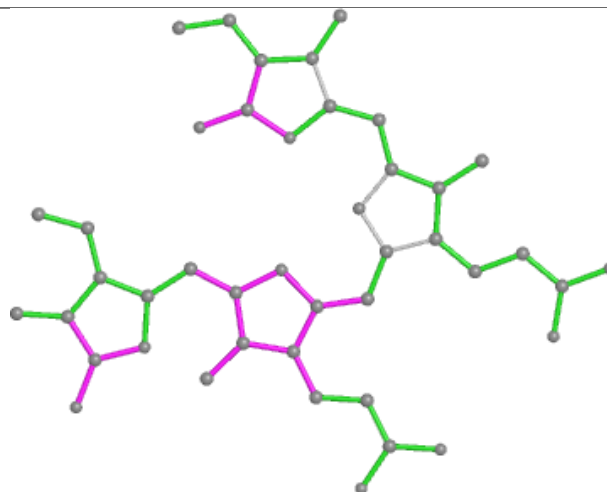


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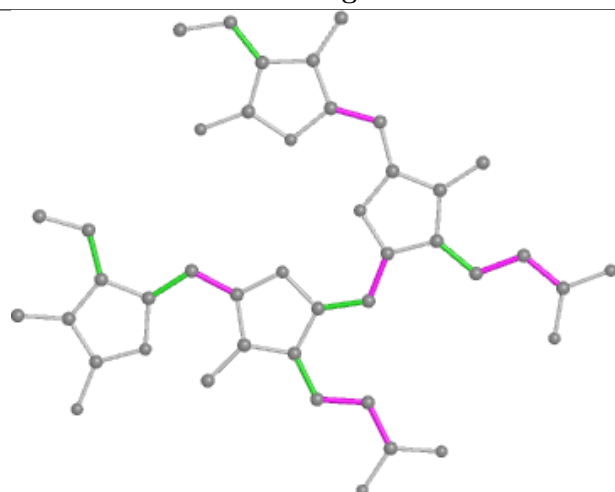
Ligand PEB G8 203



Bond lengths



Bond angles

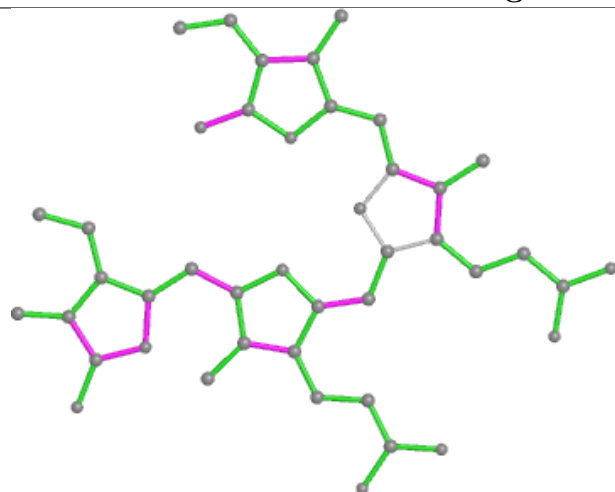


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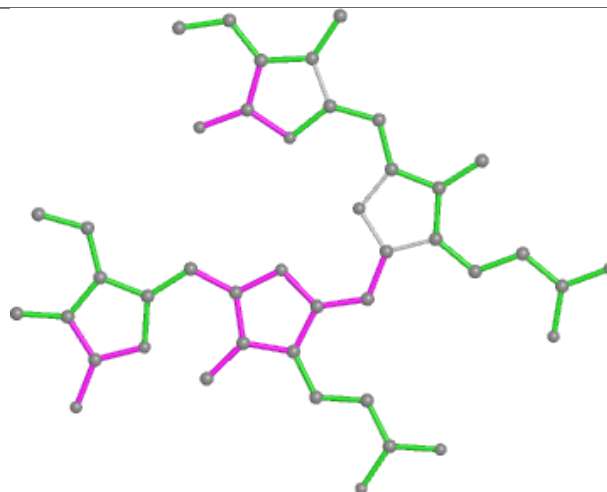


Rings

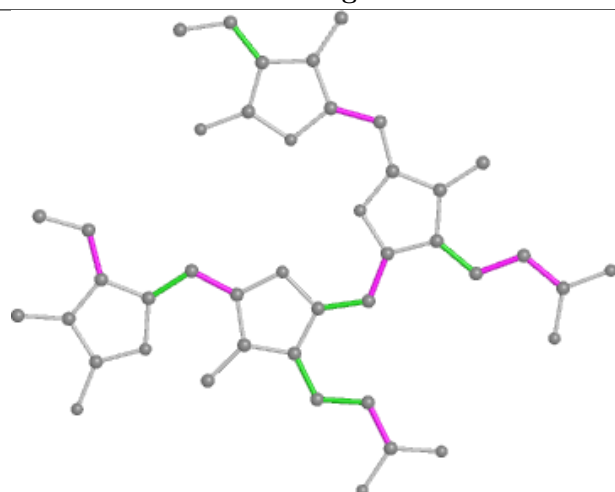
Ligand PEB RL 203



Bond lengths



Bond angles

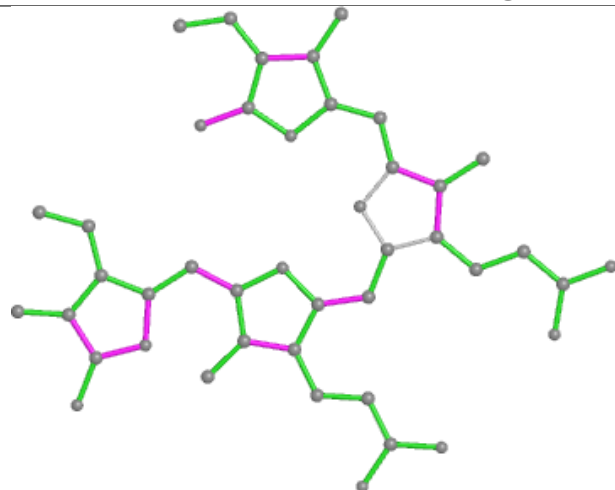


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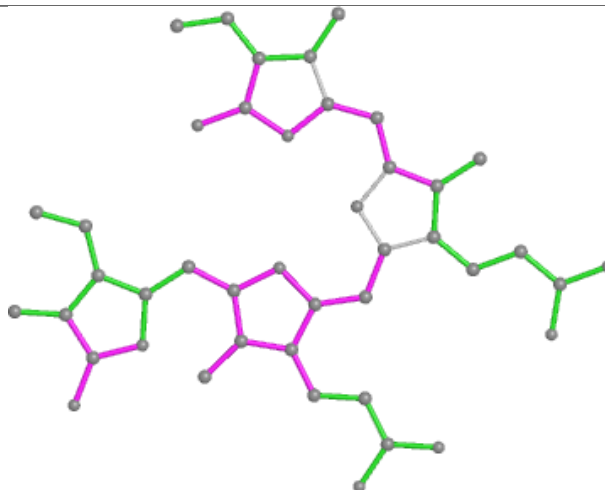


Rings

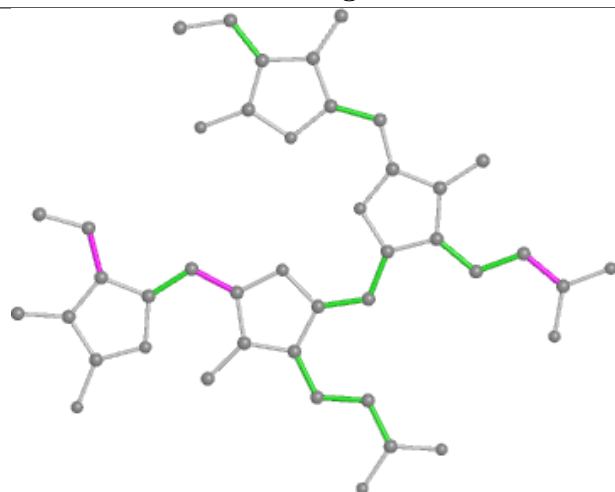
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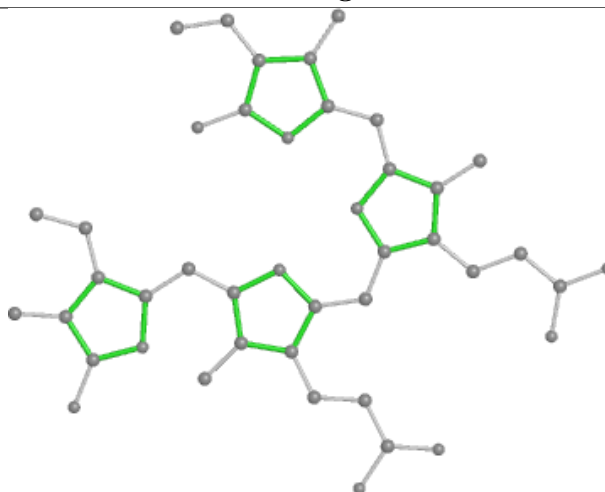
Bond lengths



Bond angles

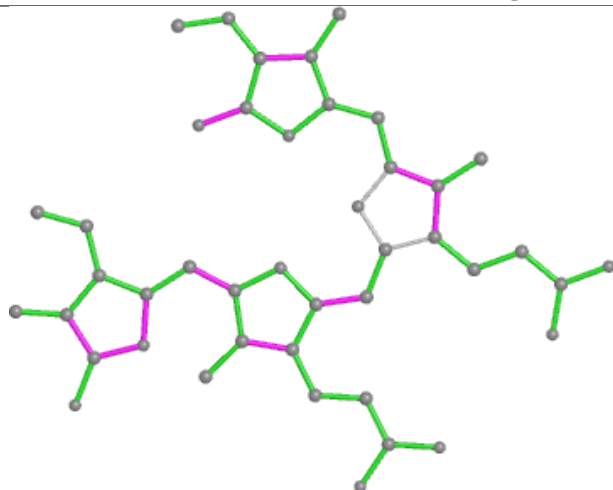


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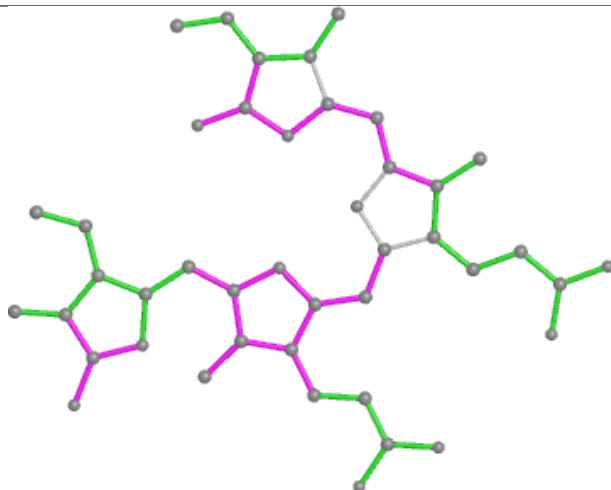


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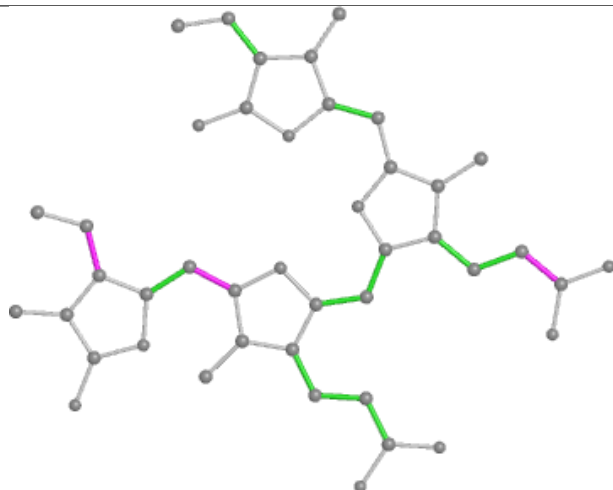
Ligand PEB iM 202



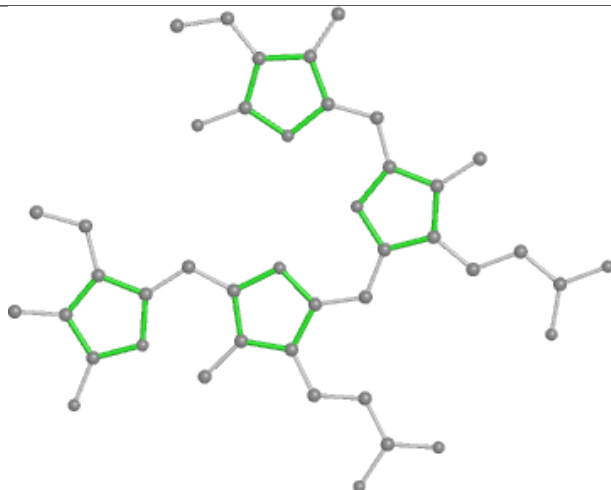
Bond lengths



Bond angles

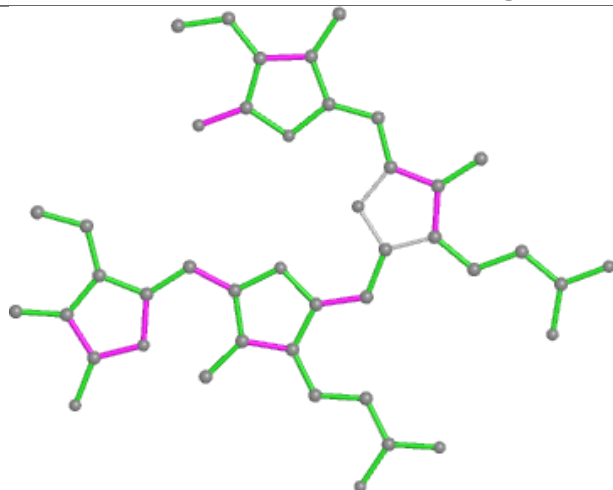


Torsions

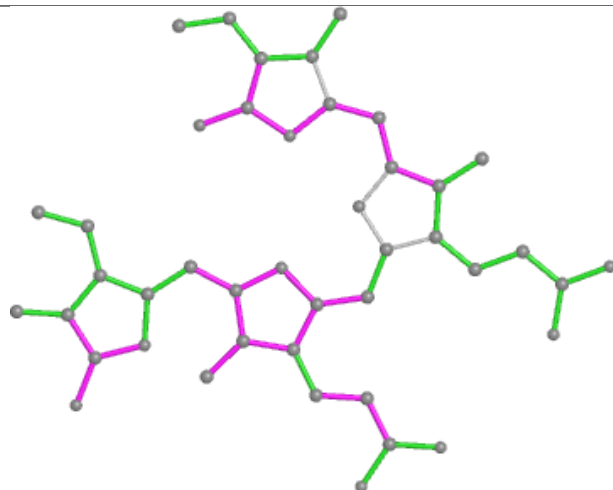


Rings

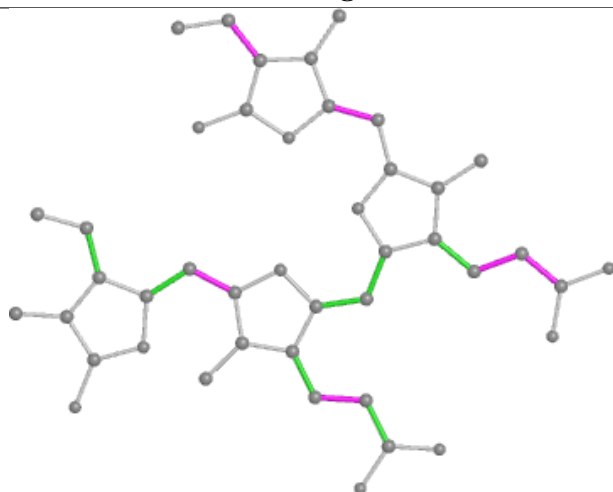
Ligand PEB DG 201



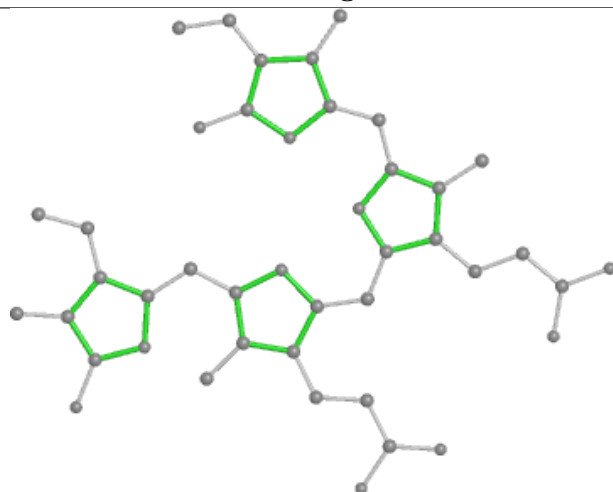
Bond lengths



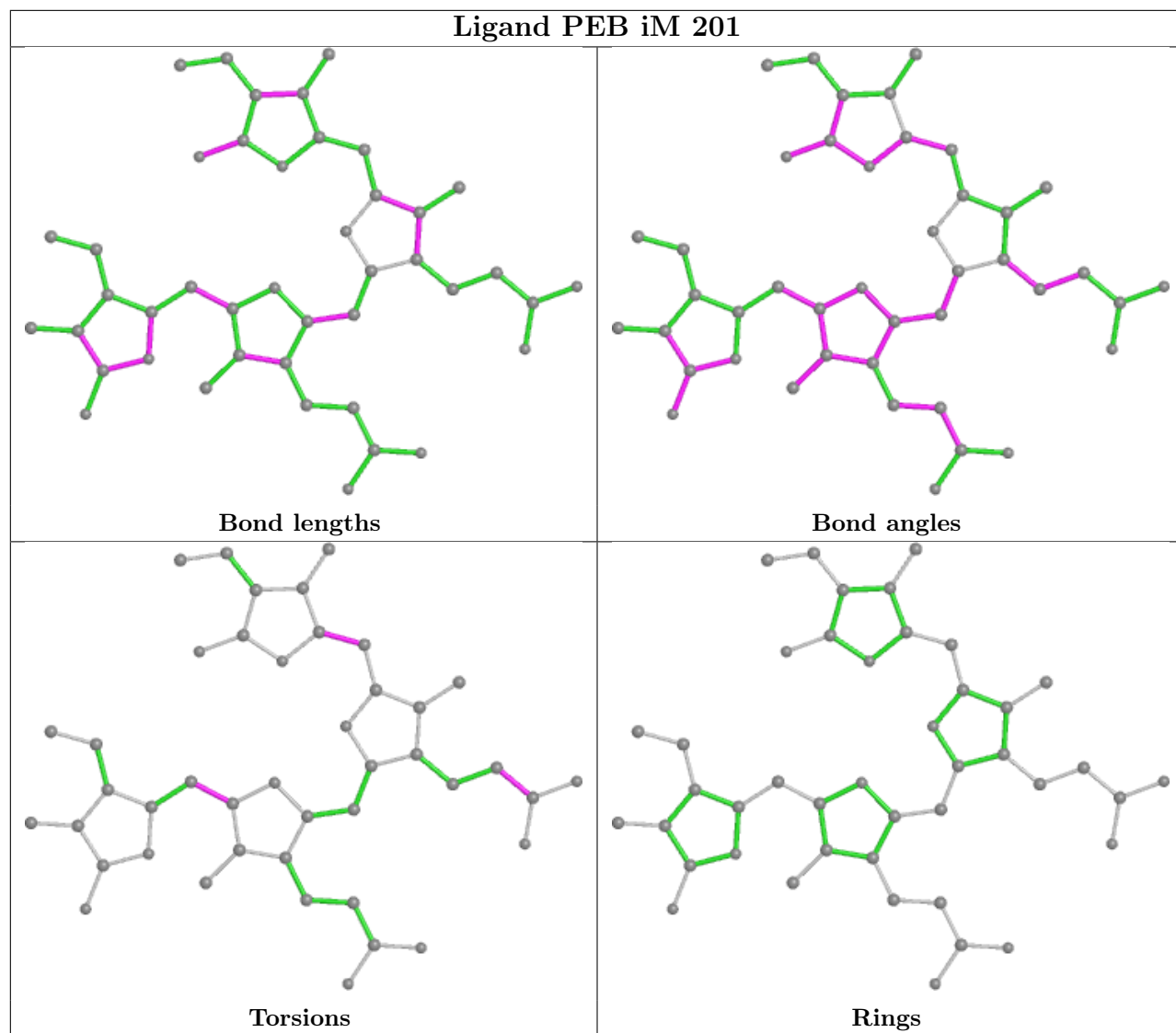
Bond angles

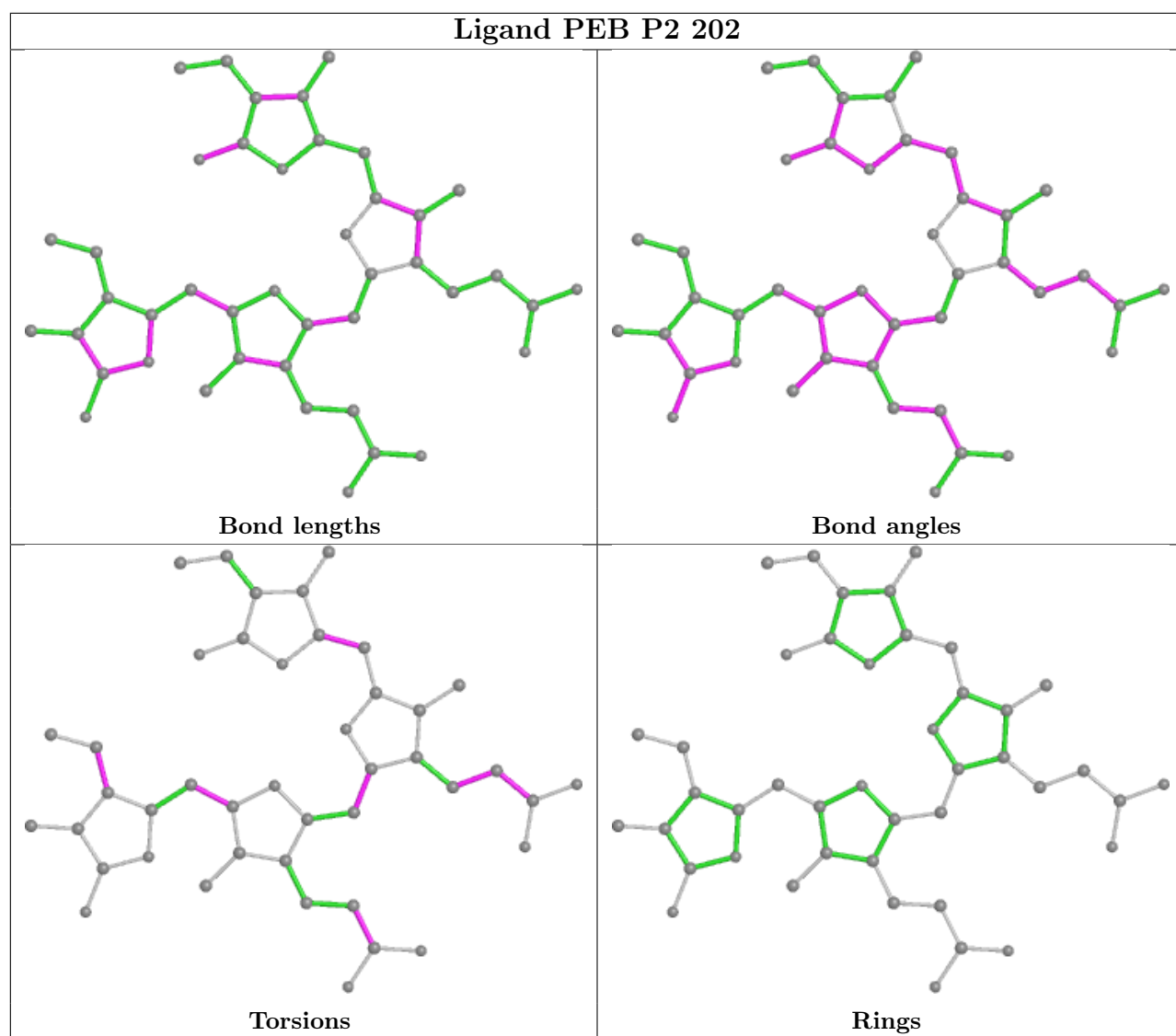


Torsions

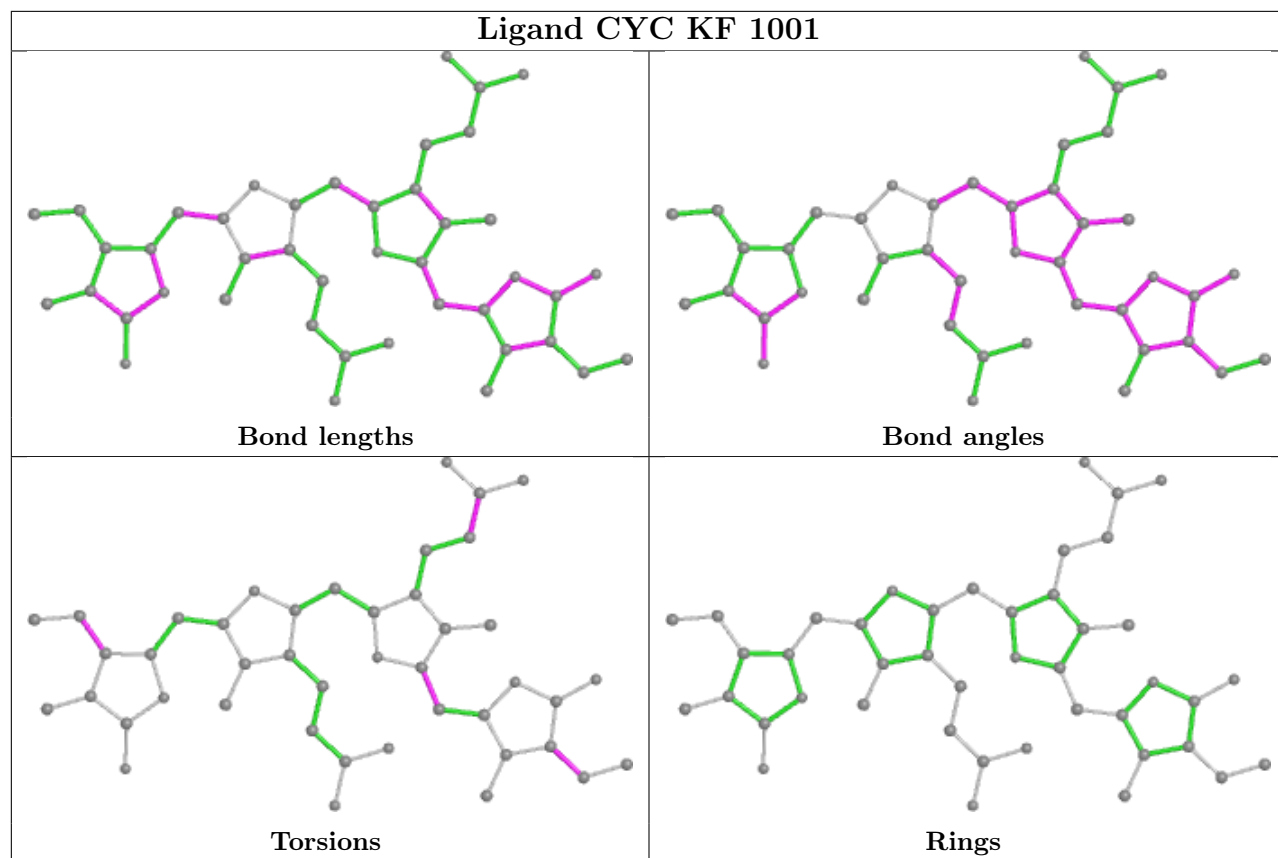


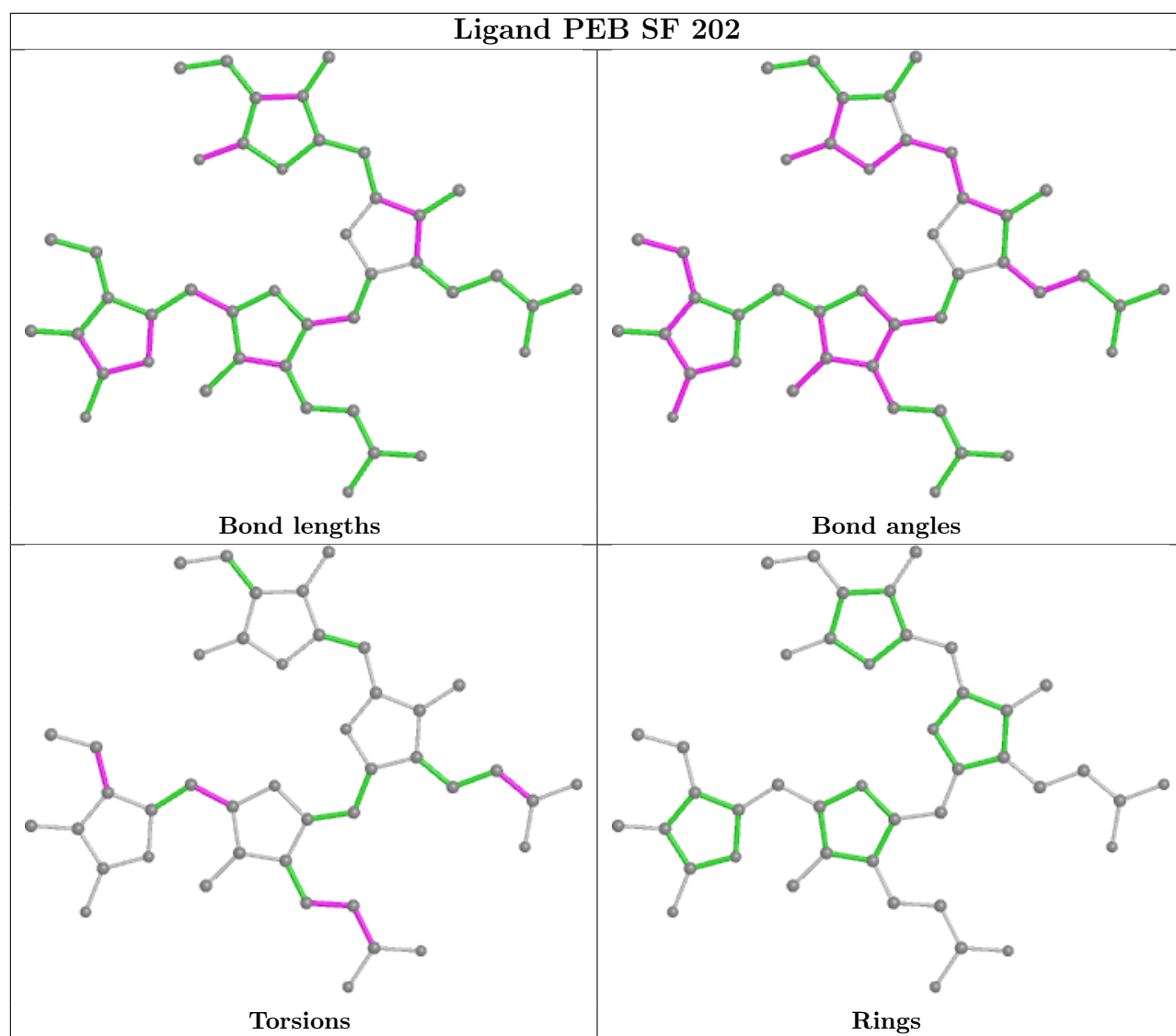
Rings



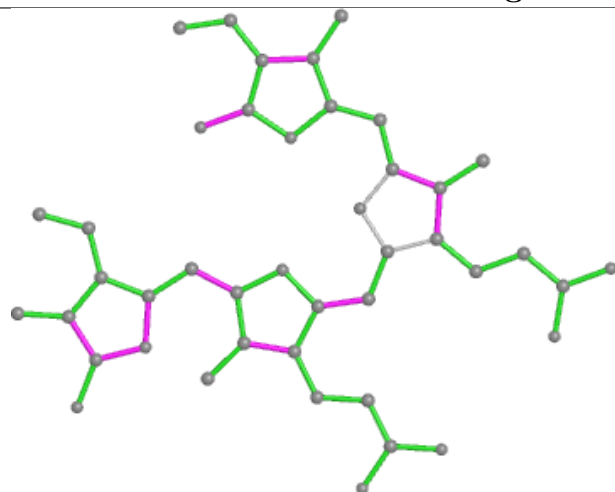


Ligand CYC KF 1001

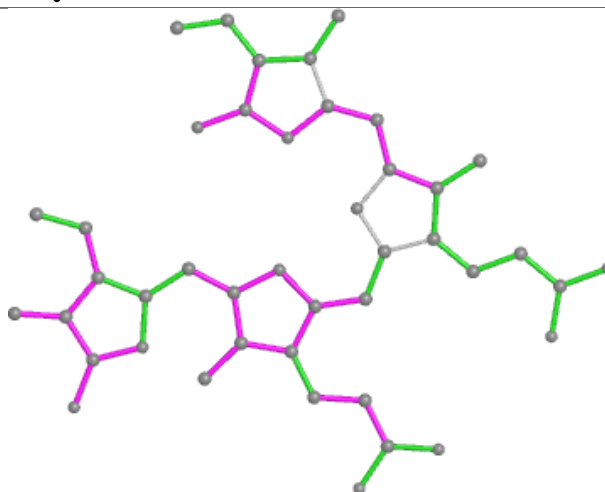




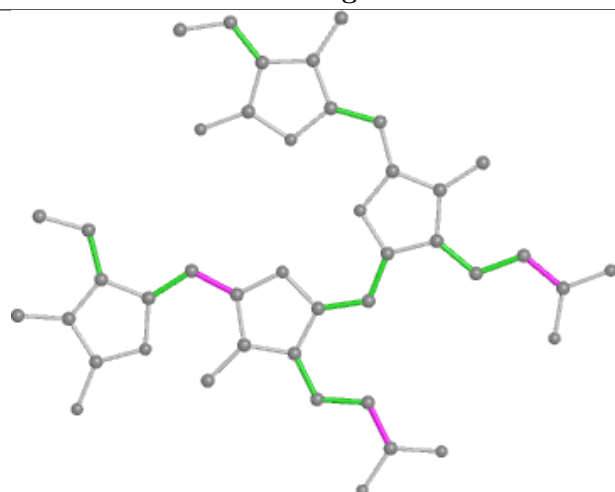
Ligand PEB QF 201



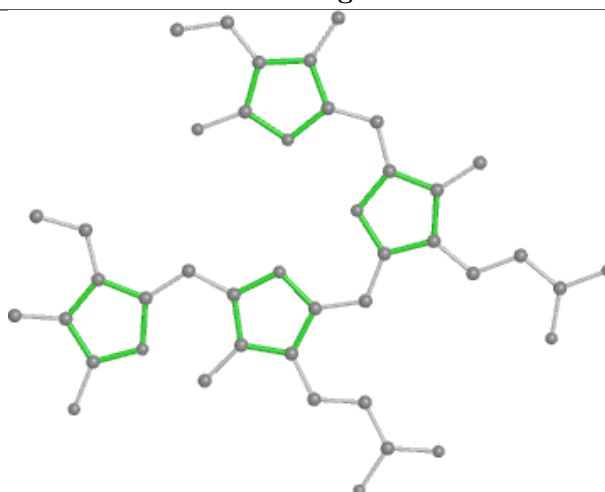
Bond lengths



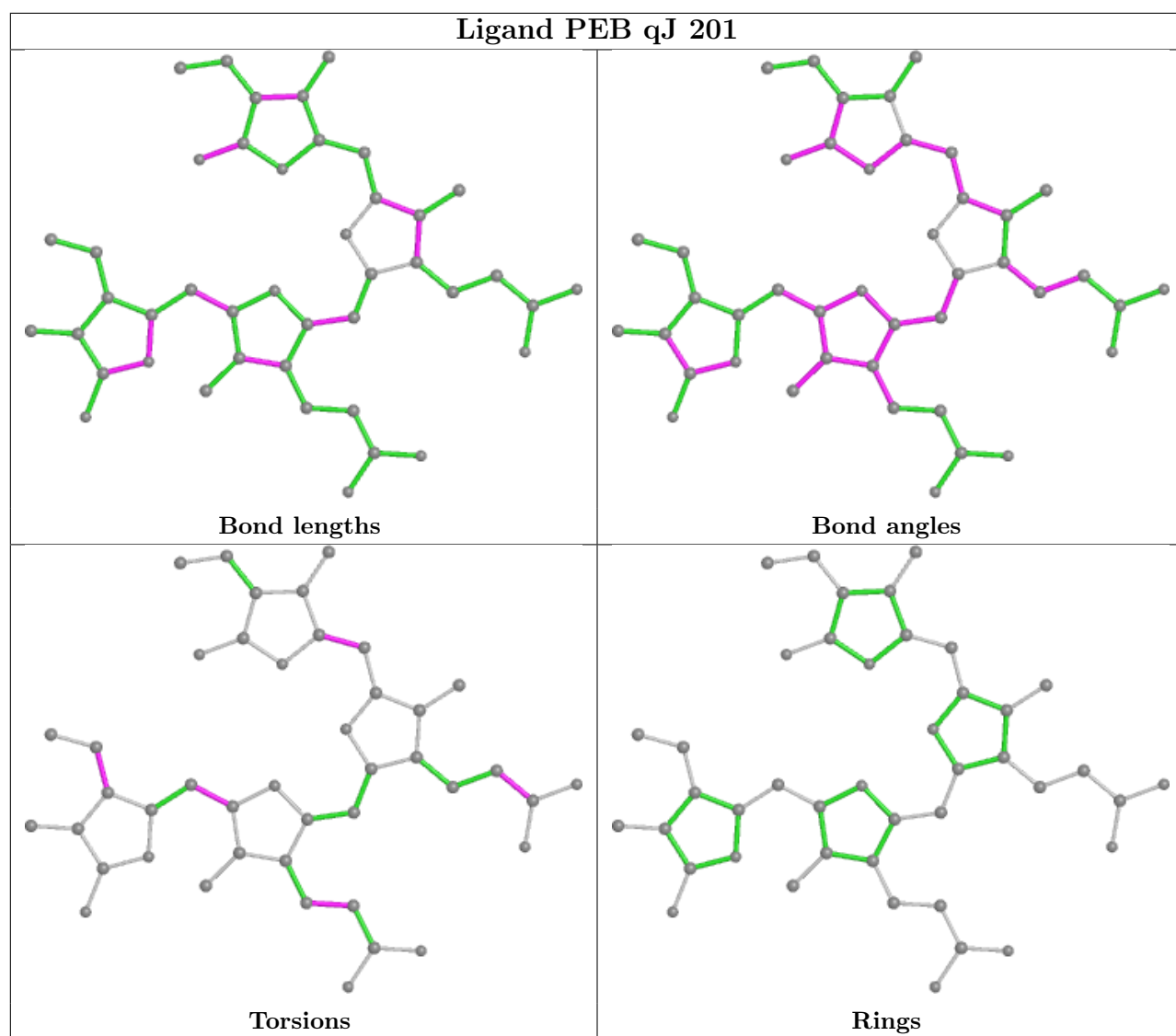
Bond angles



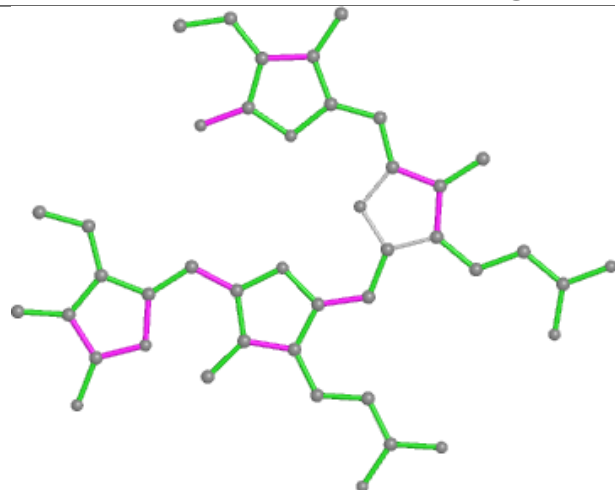
Torsions



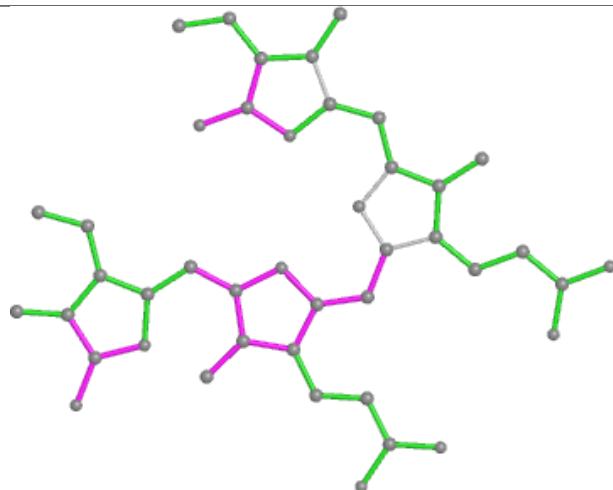
Rings



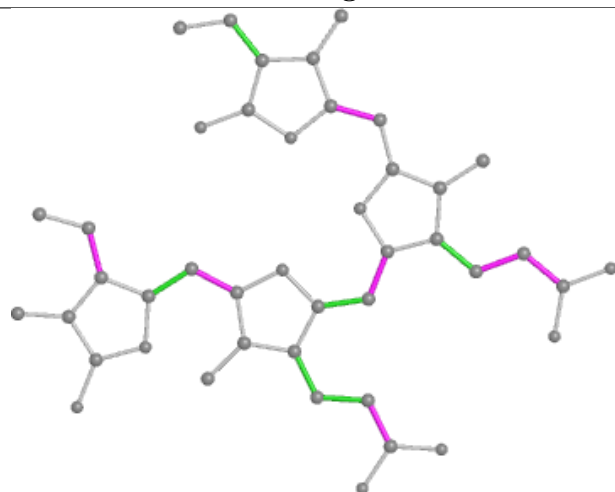
Ligand PEB BJ 203



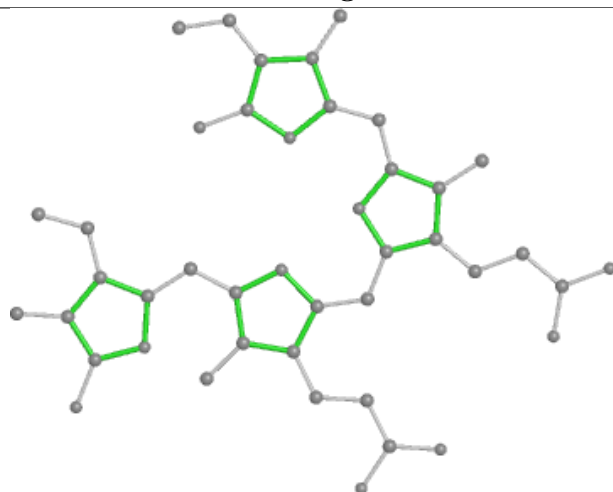
Bond lengths



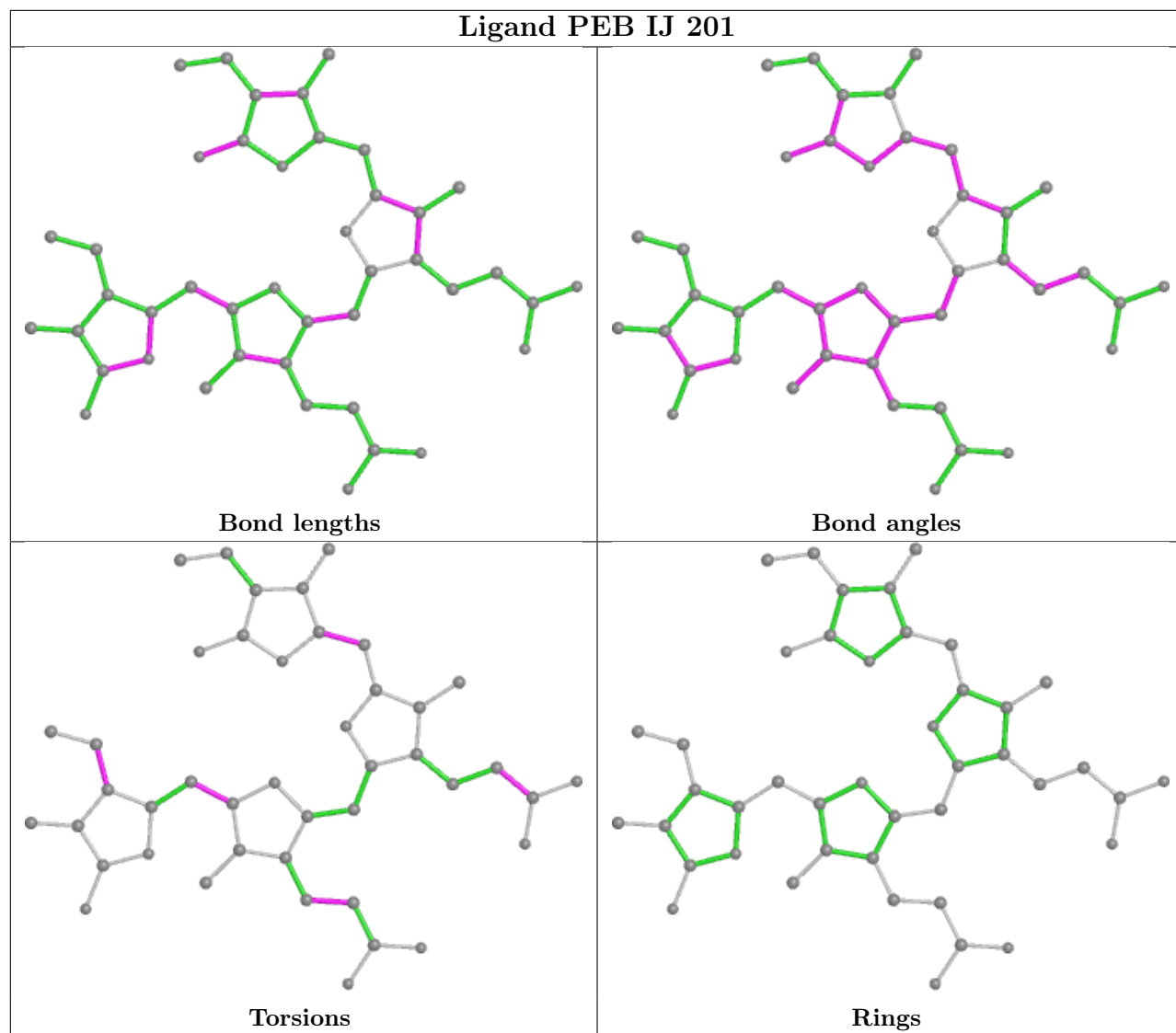
Bond angles



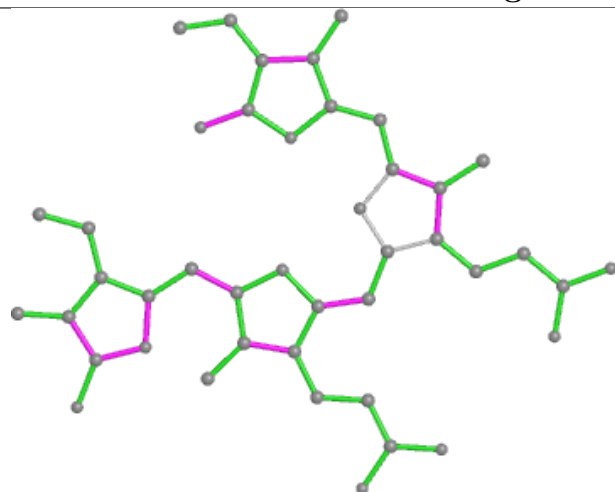
Torsions



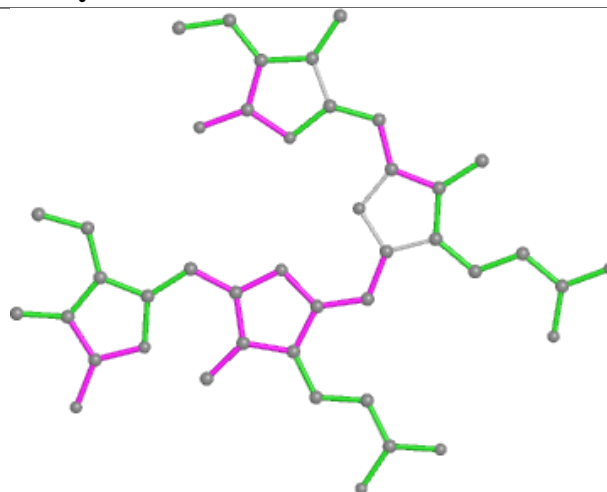
Rings



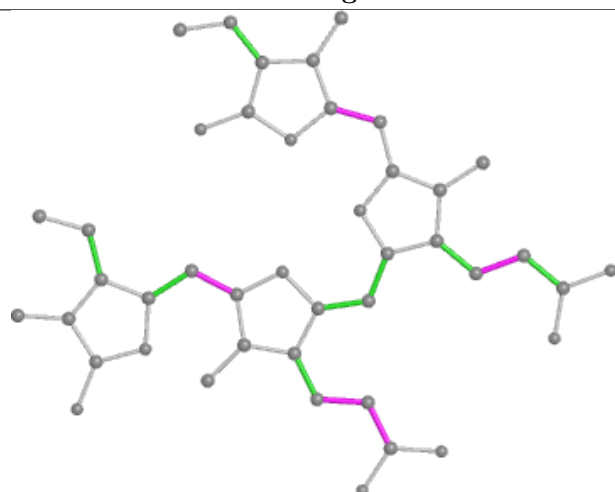
Ligand PEB EQ 201



Bond lengths



Bond angles

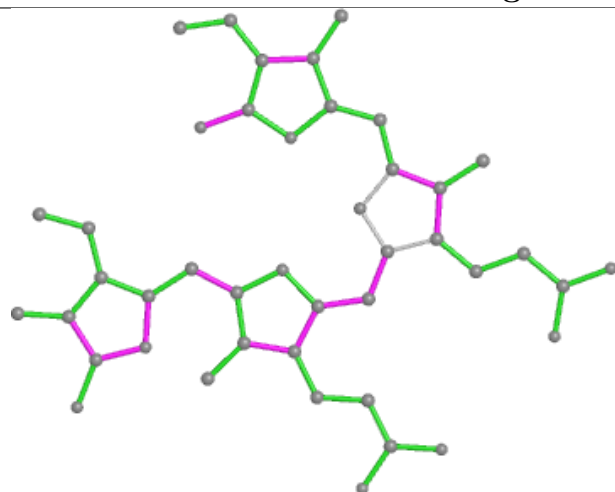


Torsions

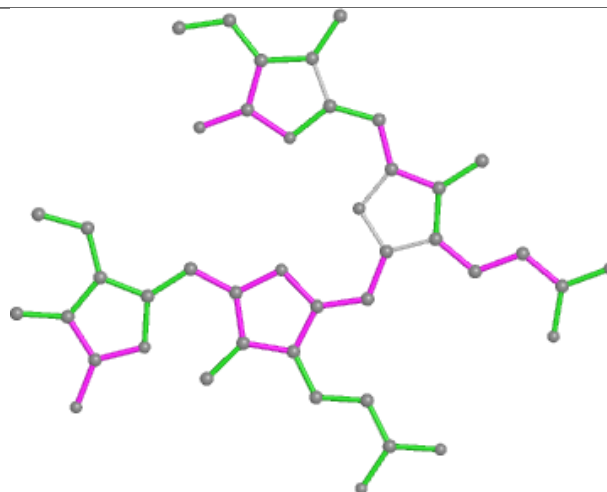


Rings

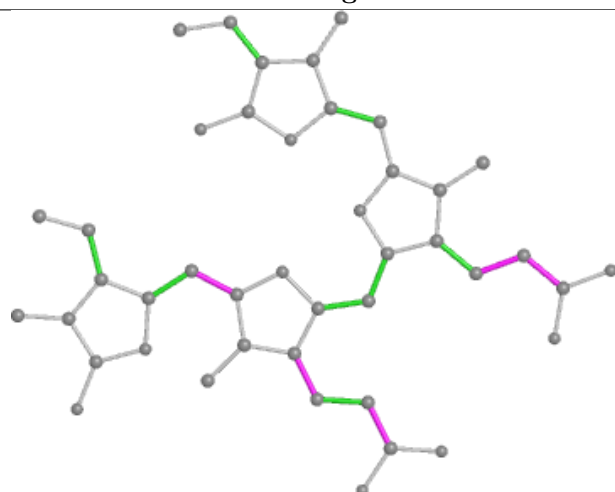
Ligand PEB RR 201



Bond lengths



Bond angles

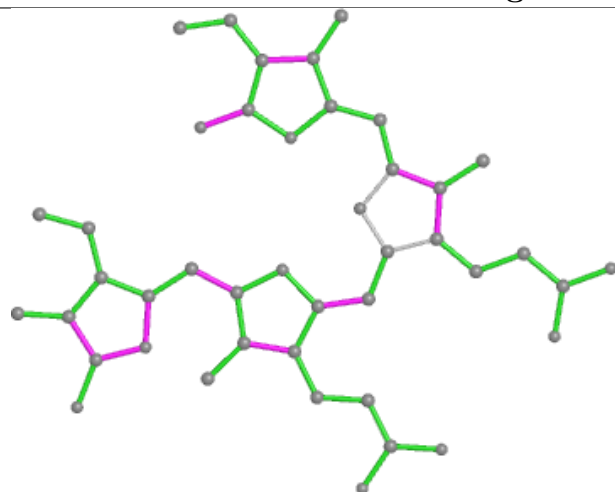


Torsions

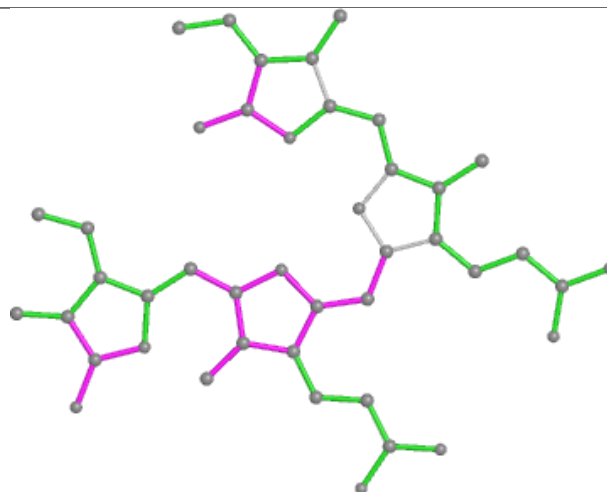


Rings

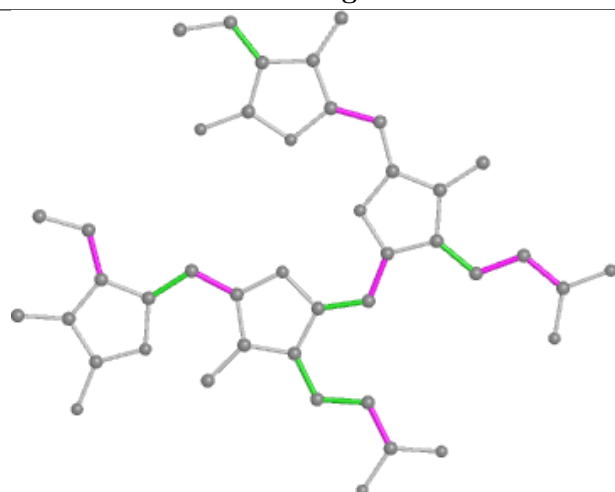
Ligand PEB NJ 203



Bond lengths



Bond angles

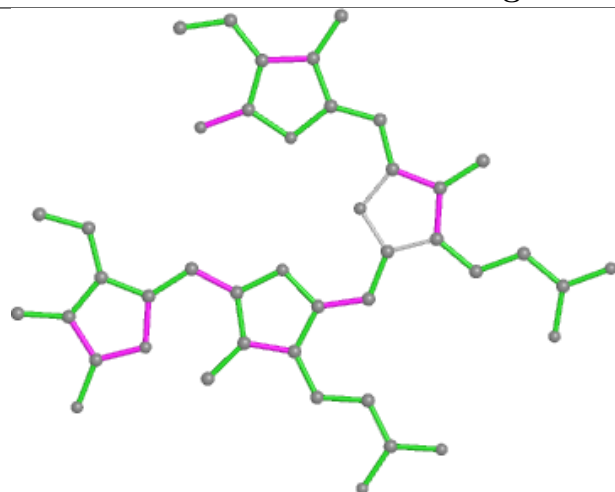


Torsions

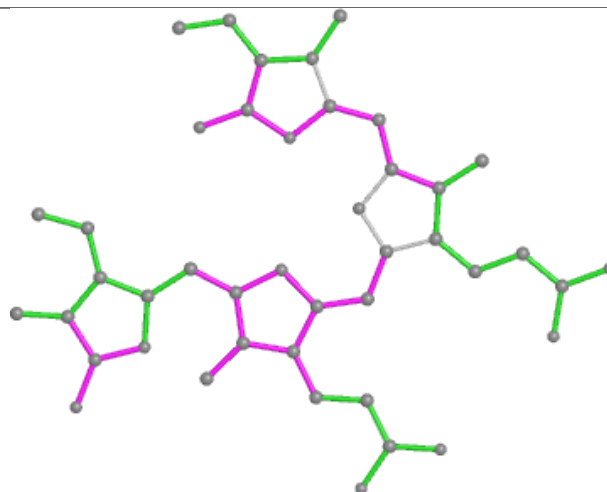


Rings

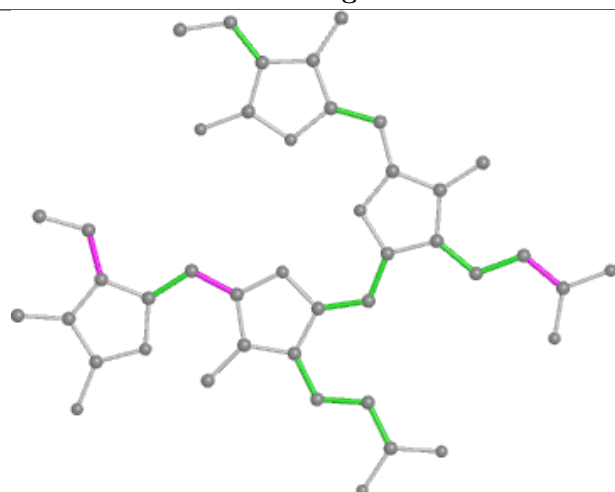
Ligand PEB HB 202



Bond lengths



Bond angles

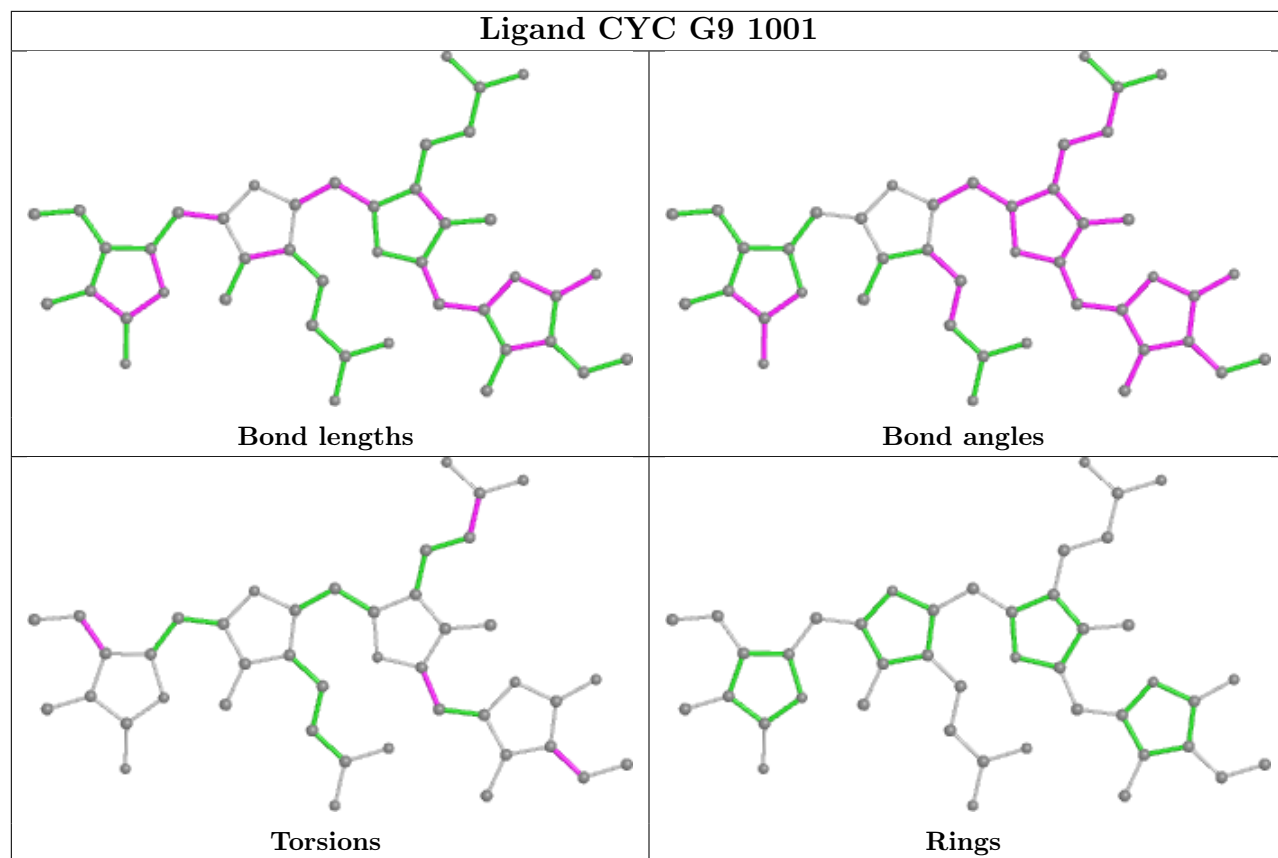


Torsions

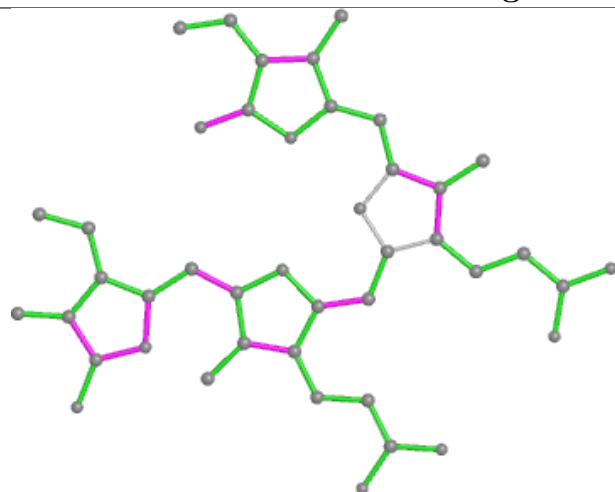


Rings

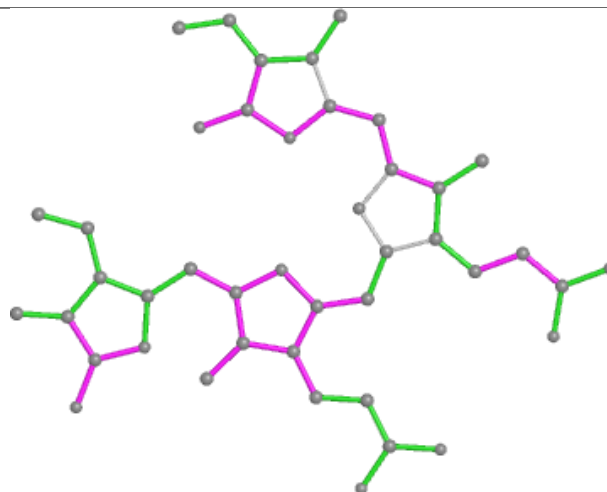
Ligand CYC G9 1001



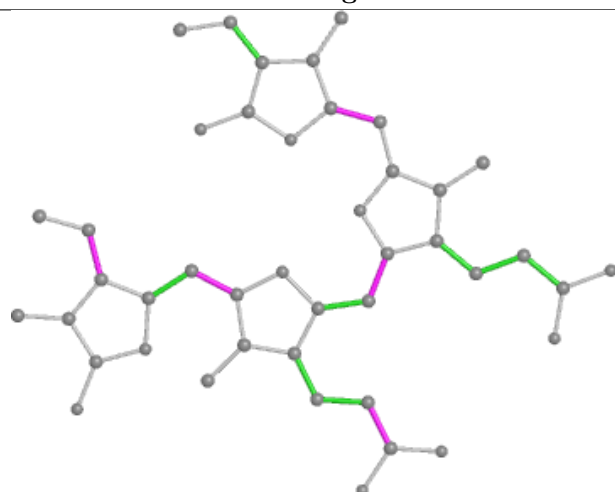
Ligand PEB DO 203



Bond lengths



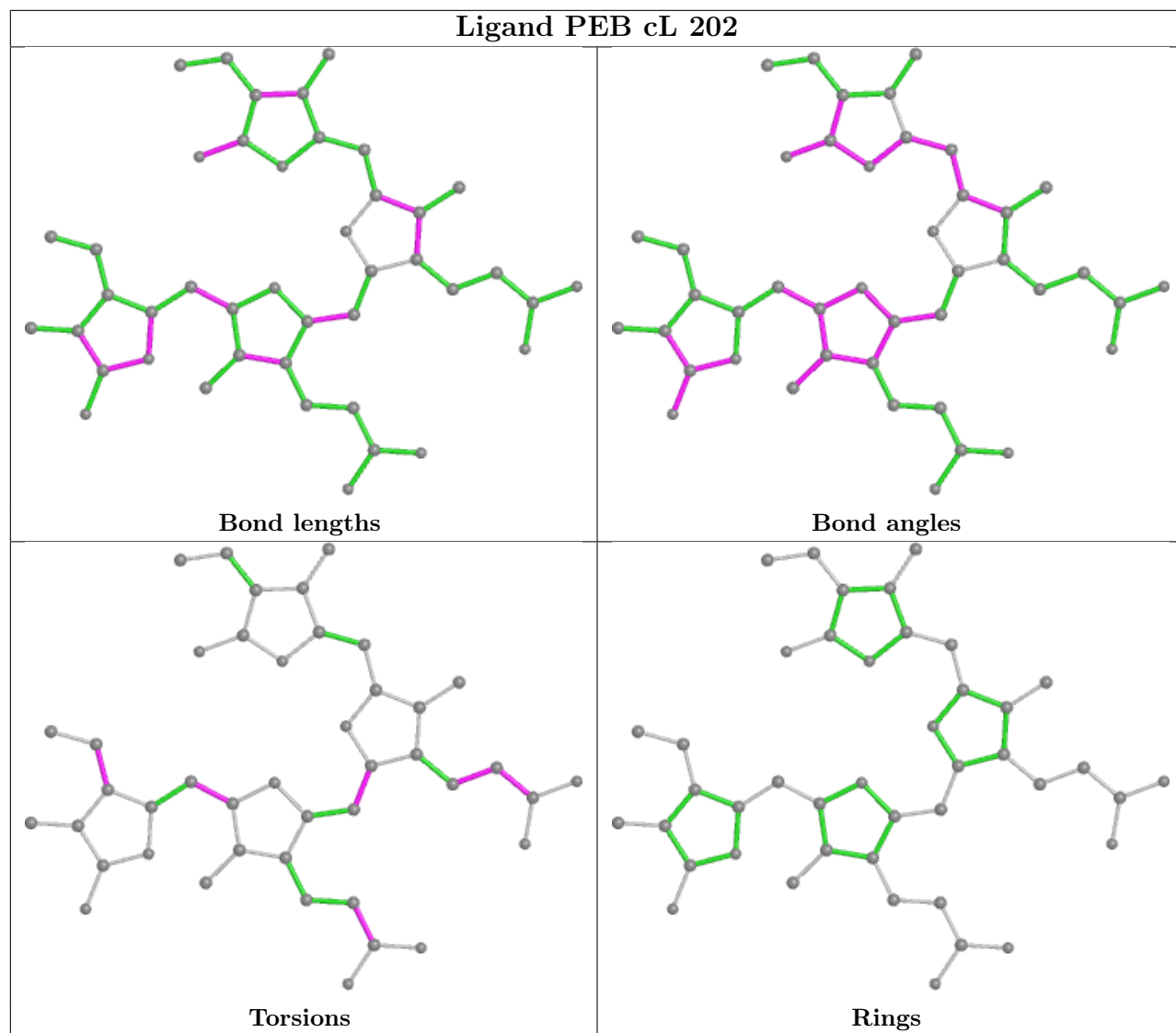
Bond angles

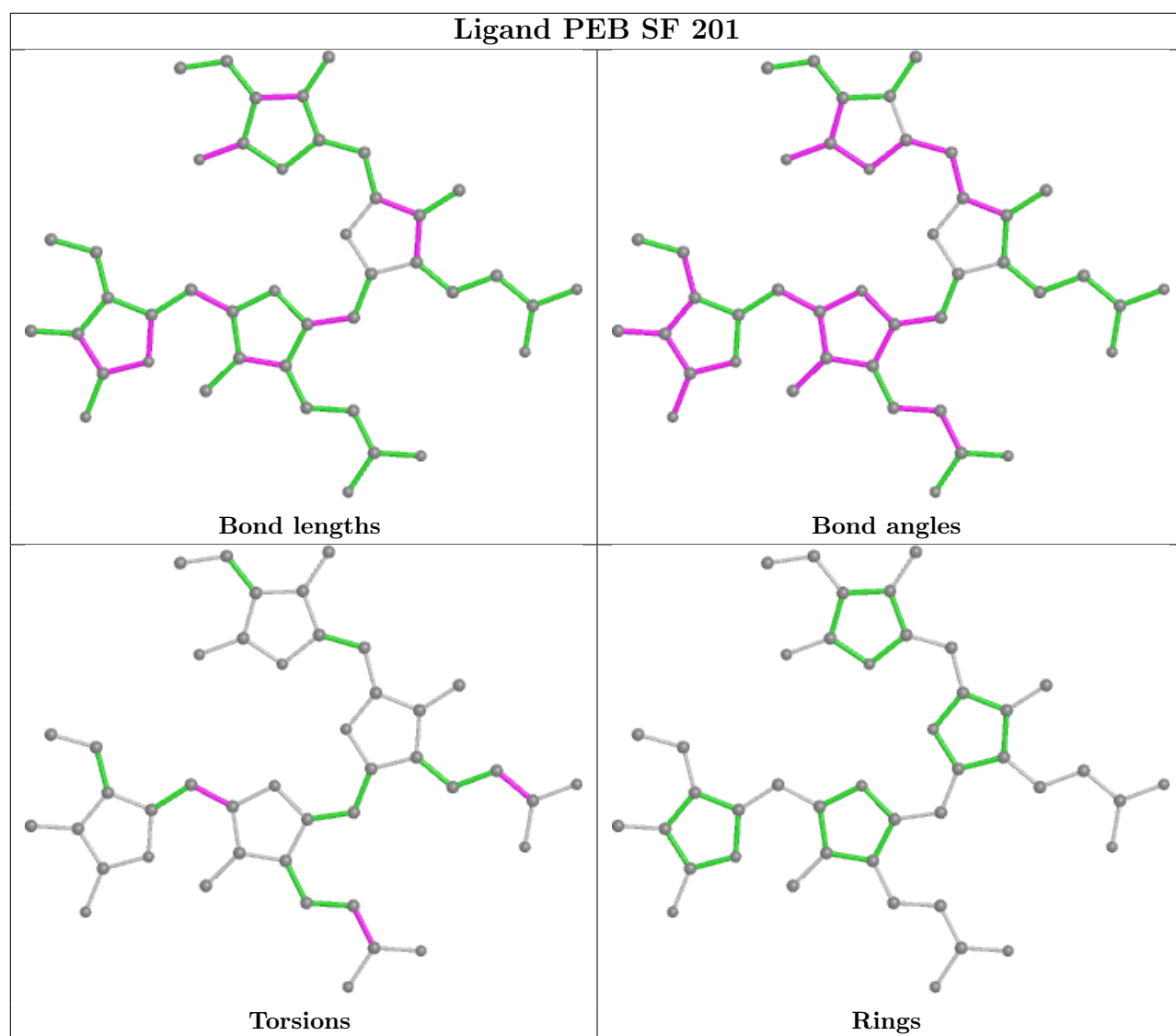


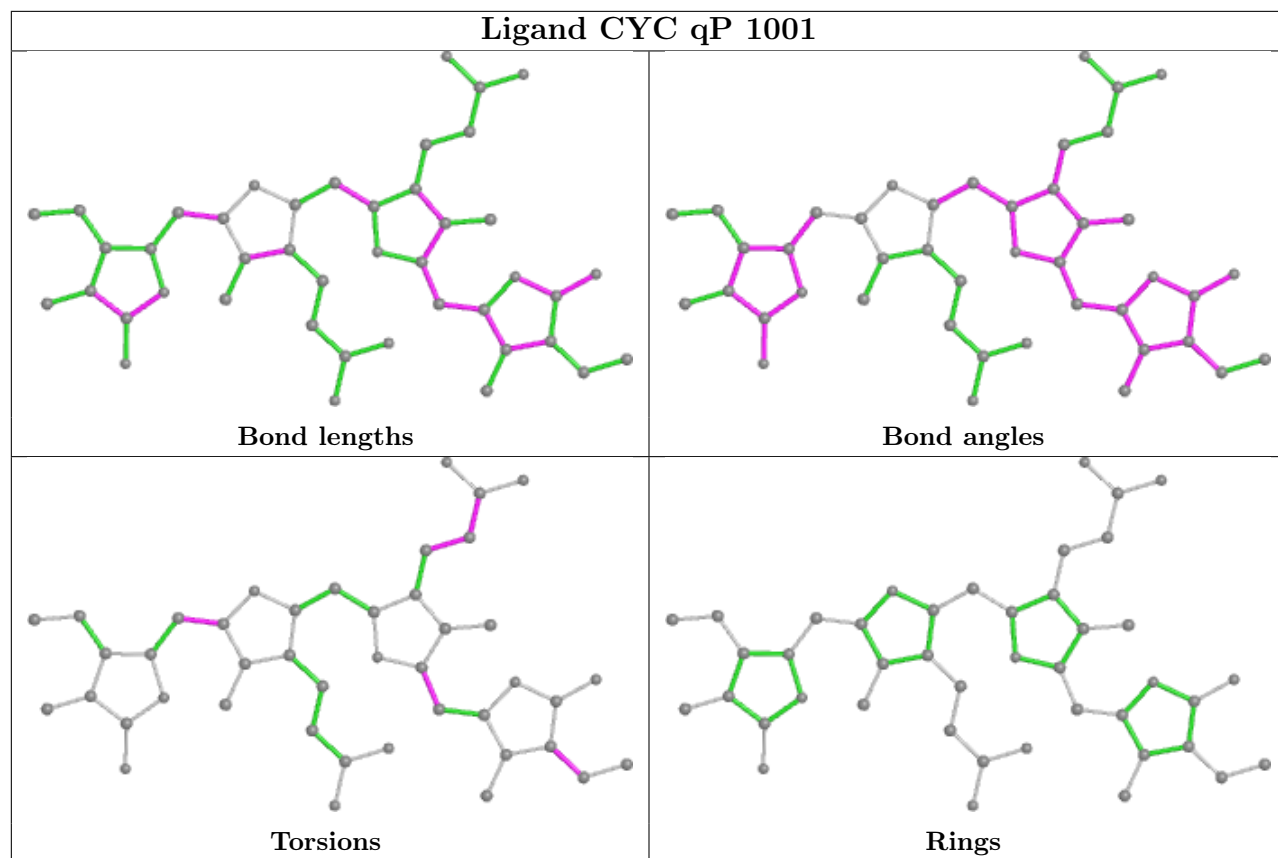
Torsions

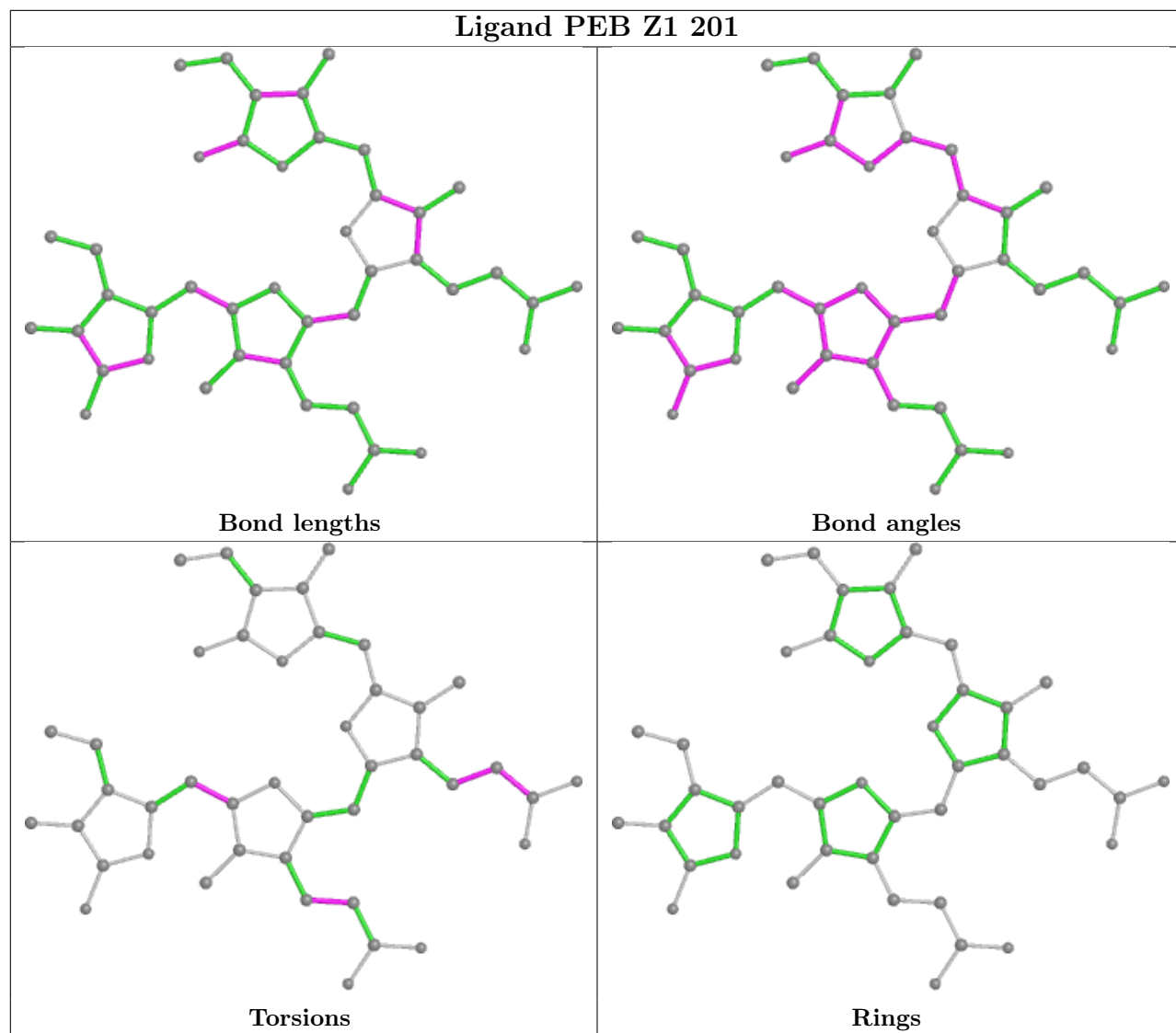


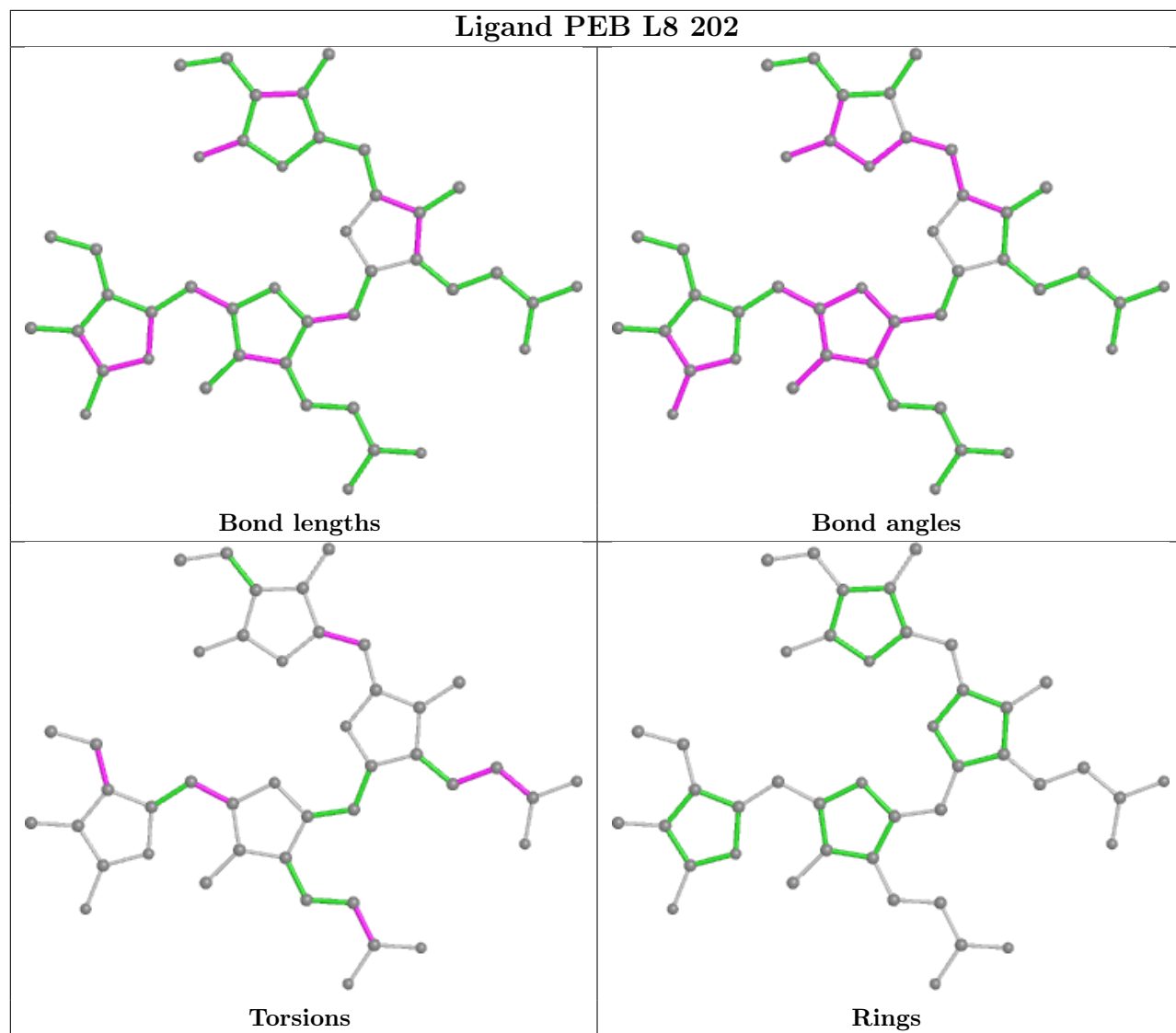
Rings

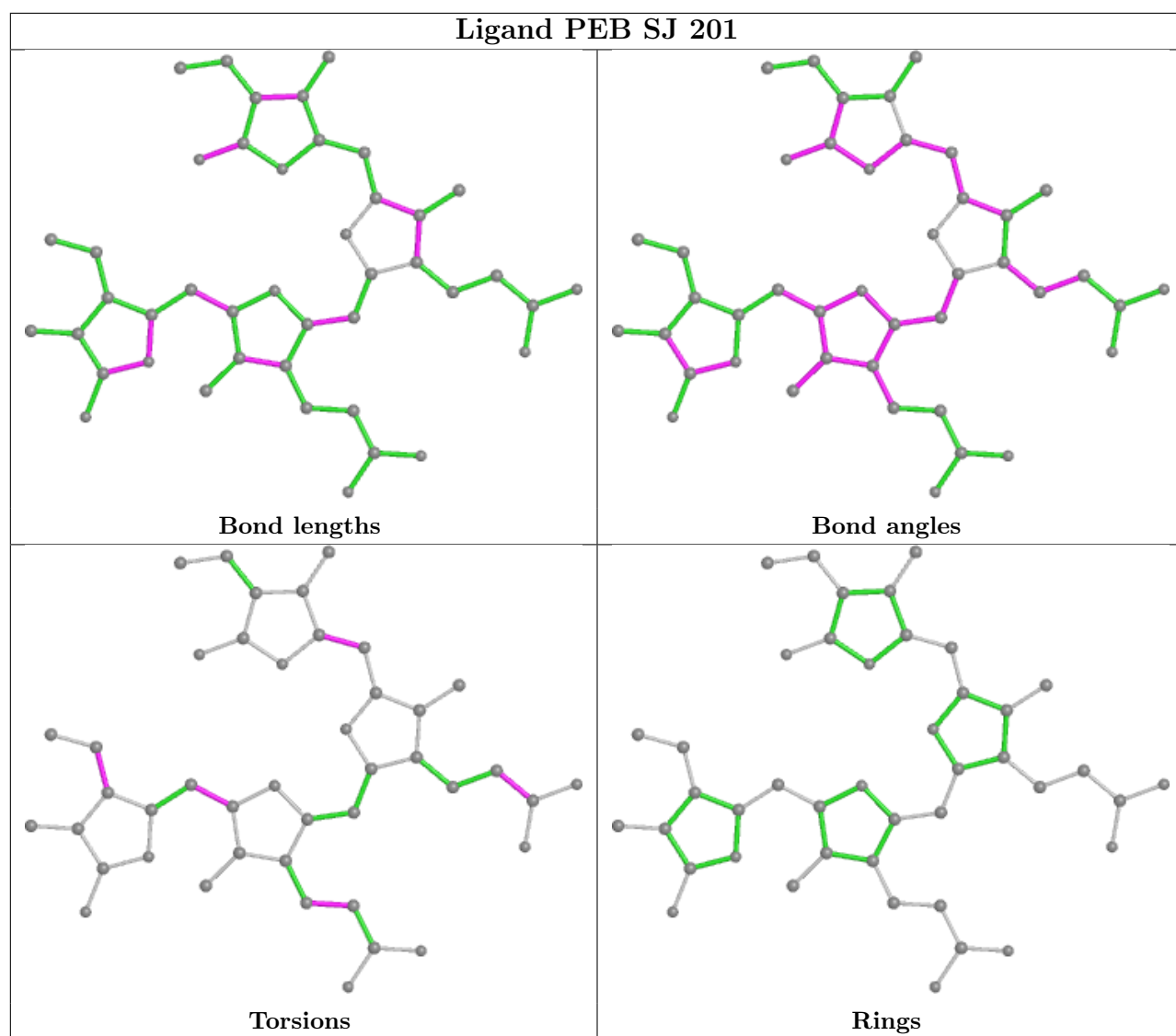


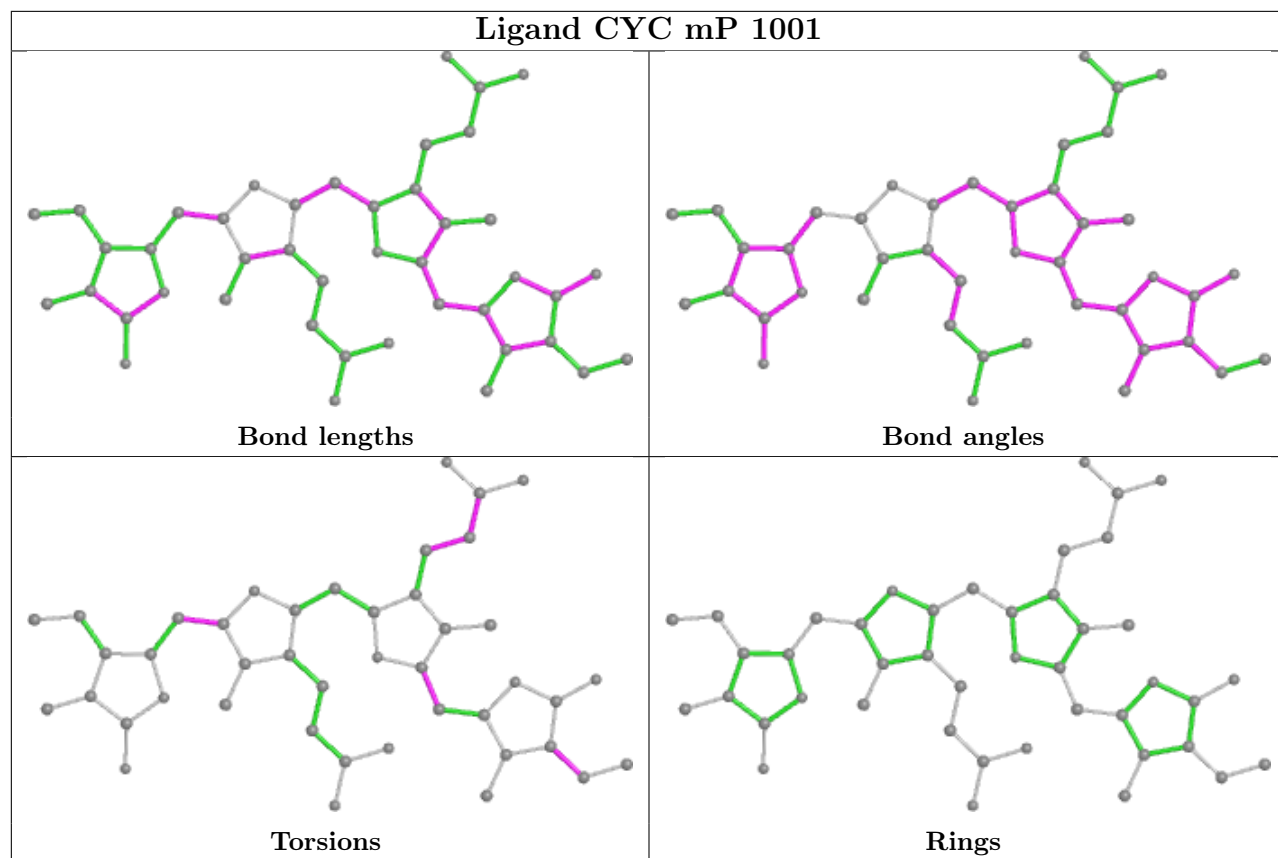




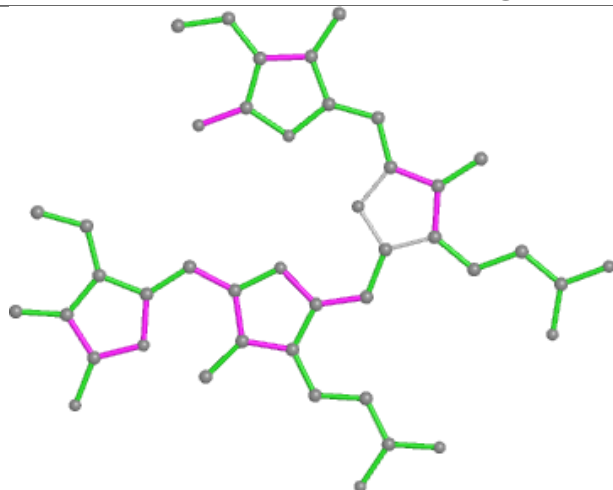




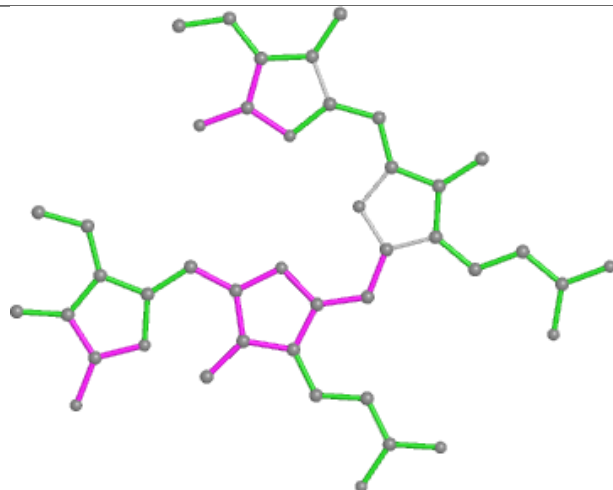




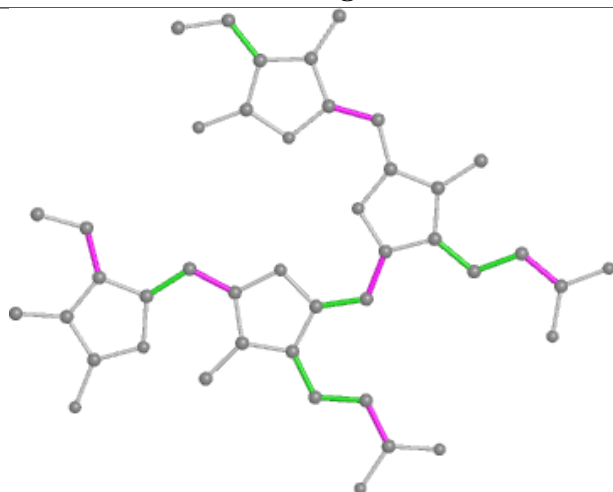
Ligand PEB MA 404



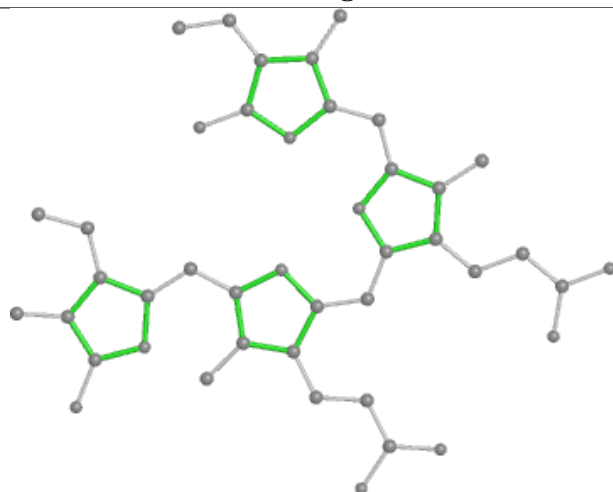
Bond lengths



Bond angles

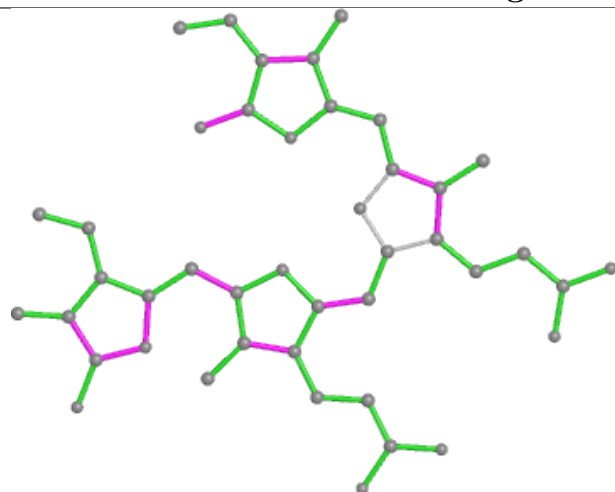


Torsions

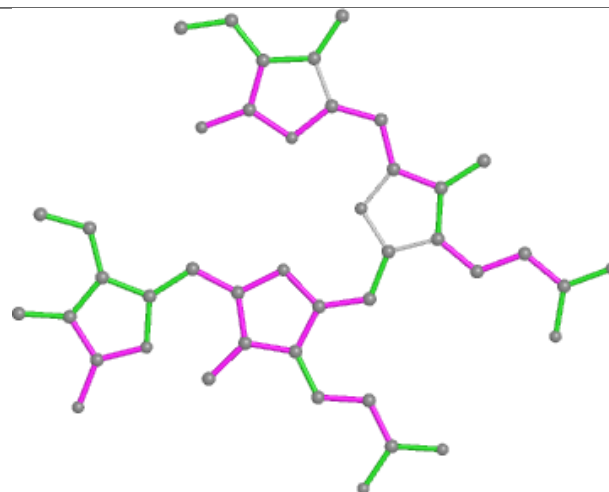


Rings

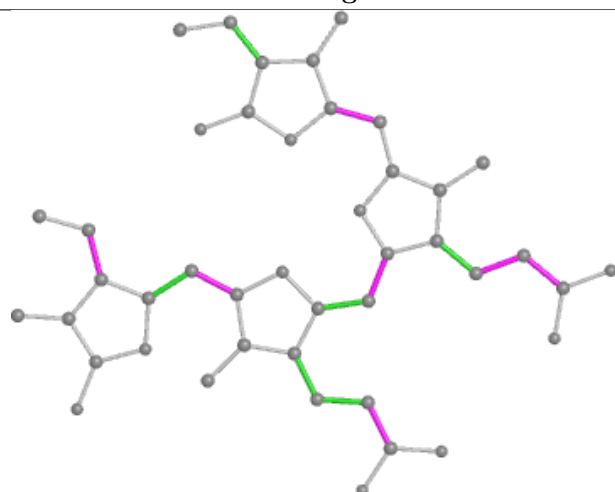
Ligand PEB N2 203



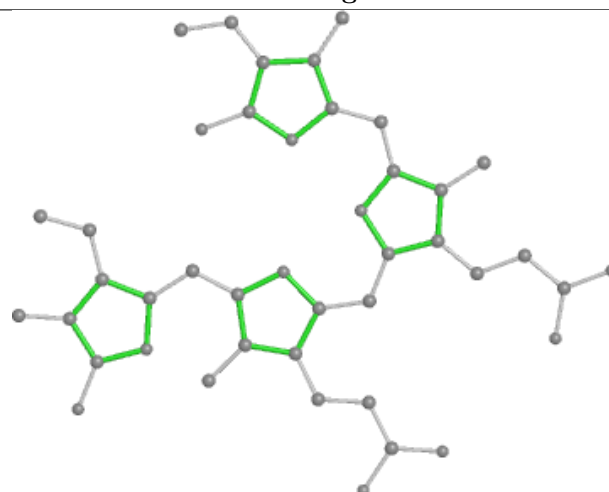
Bond lengths



Bond angles

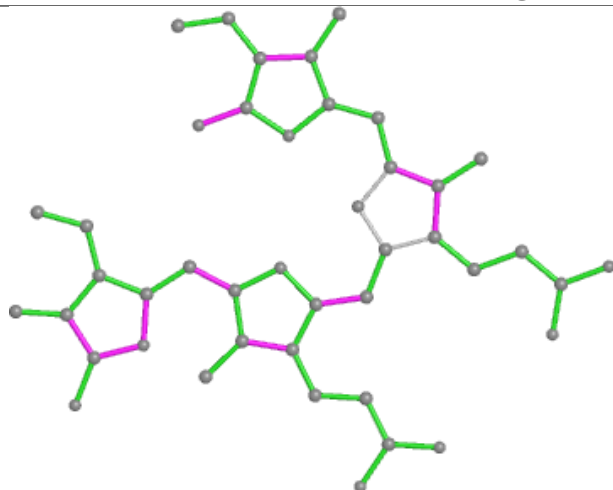


Torsions

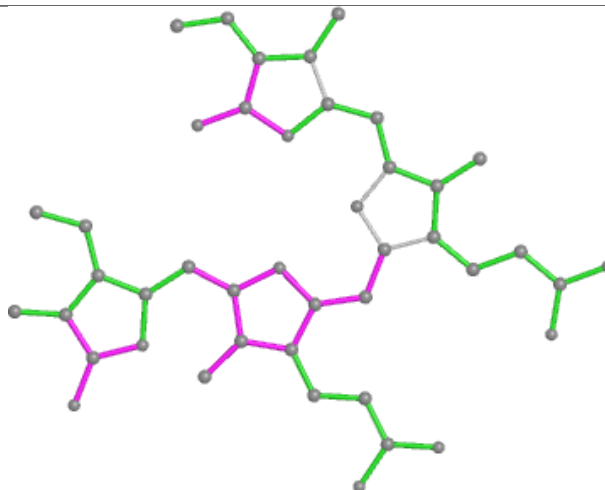


Rings

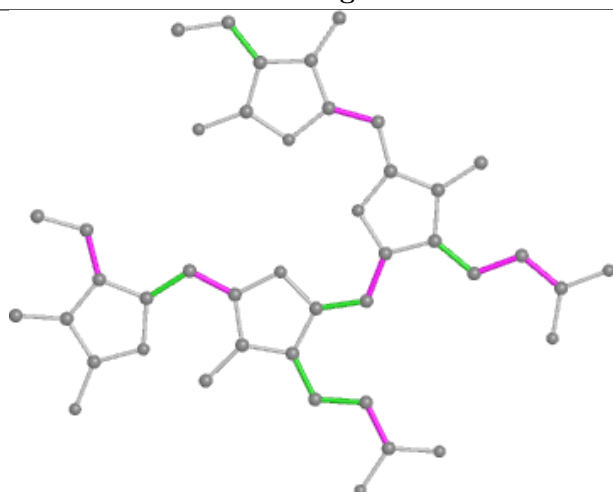
Ligand PEB 1J 203



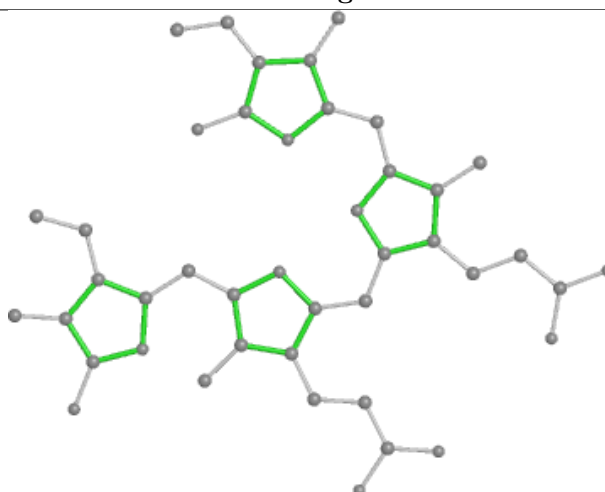
Bond lengths



Bond angles

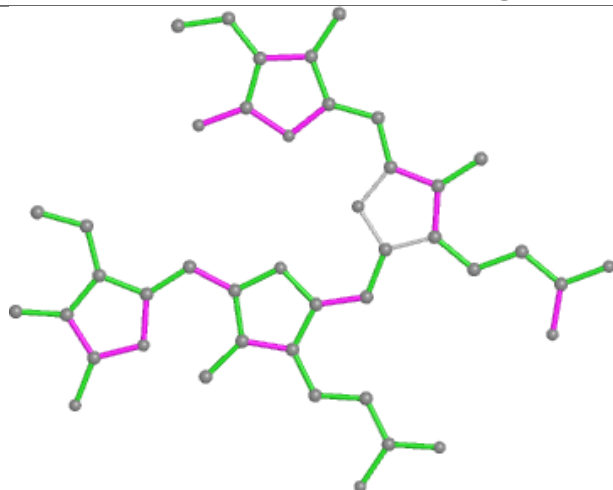


Torsions

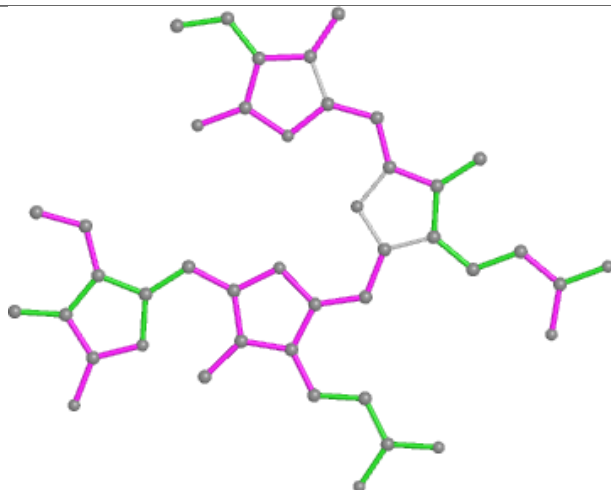


Rings

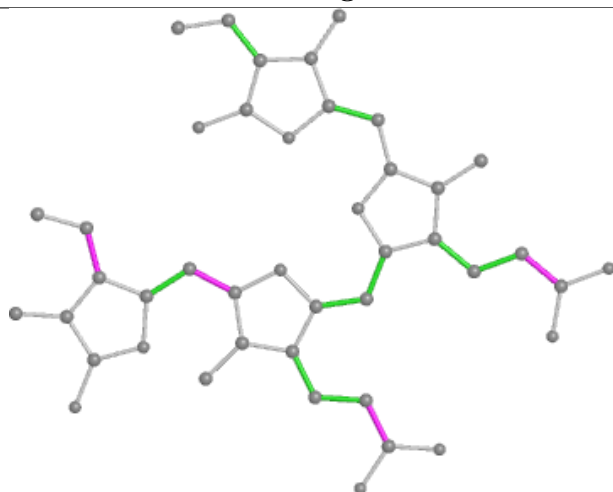
Ligand PEB N1 1002



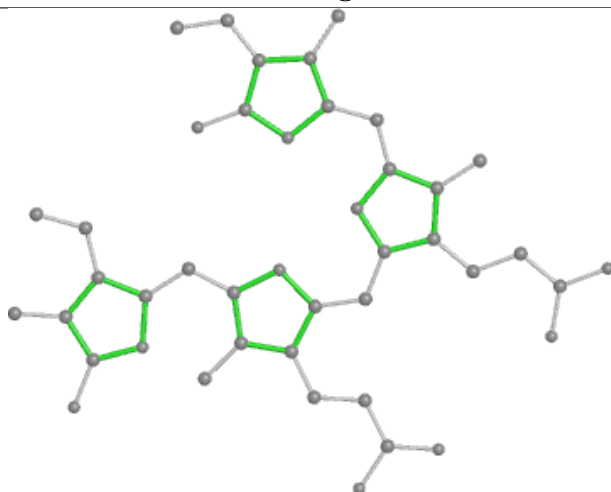
Bond lengths



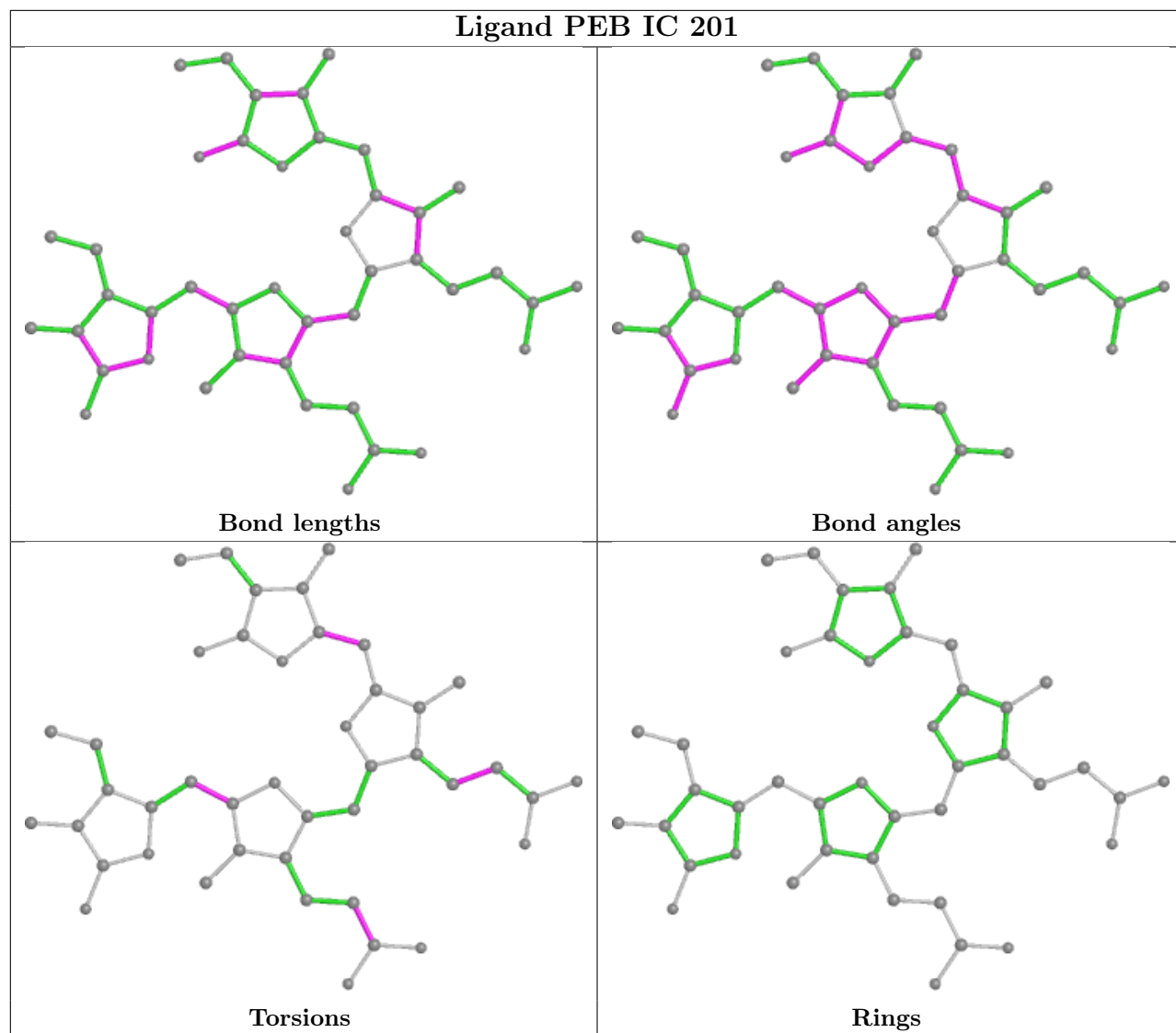
Bond angles

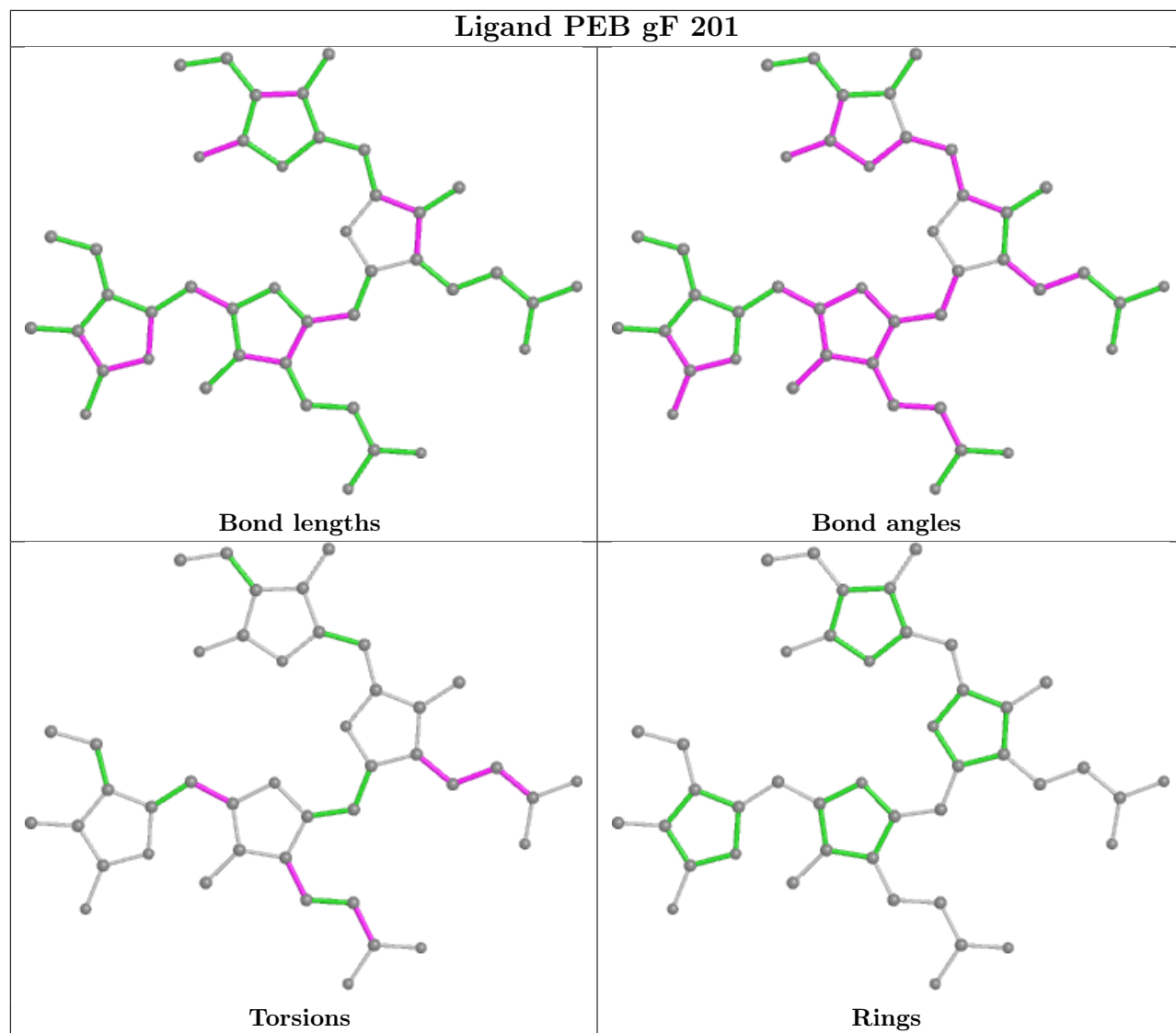


Torsions

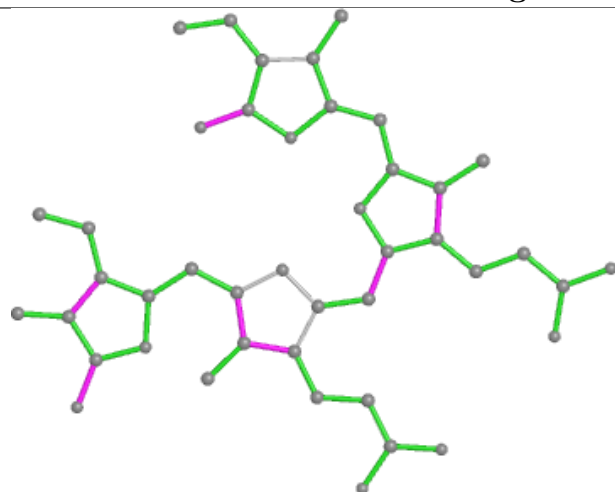


Rings

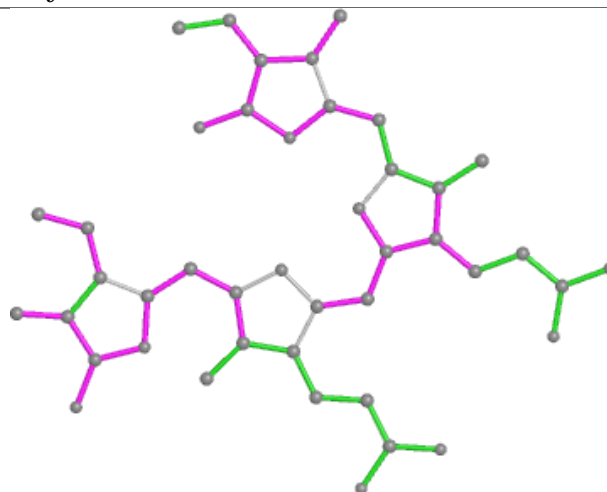




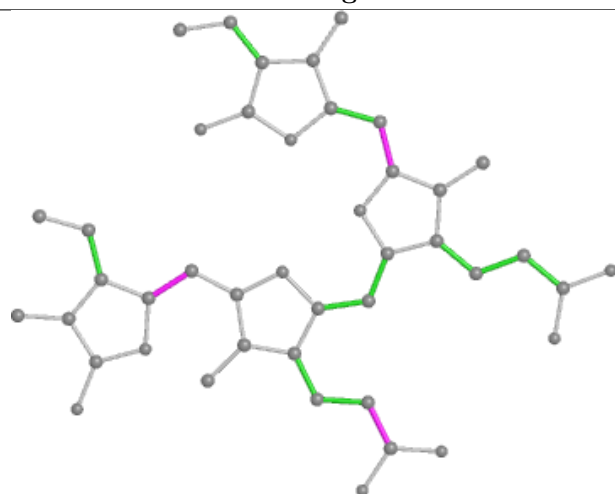
Ligand PUB yJ 303



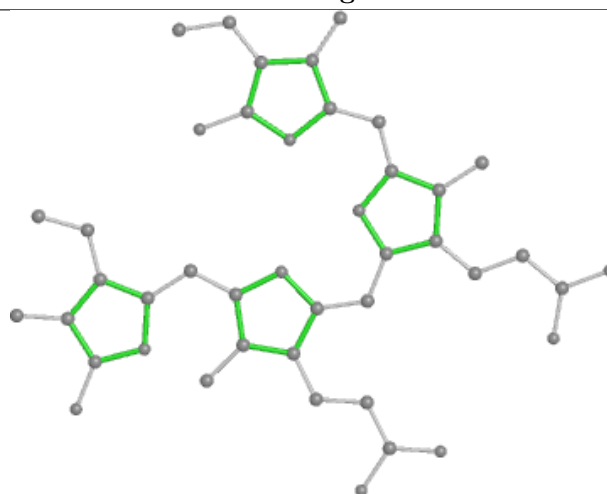
Bond lengths



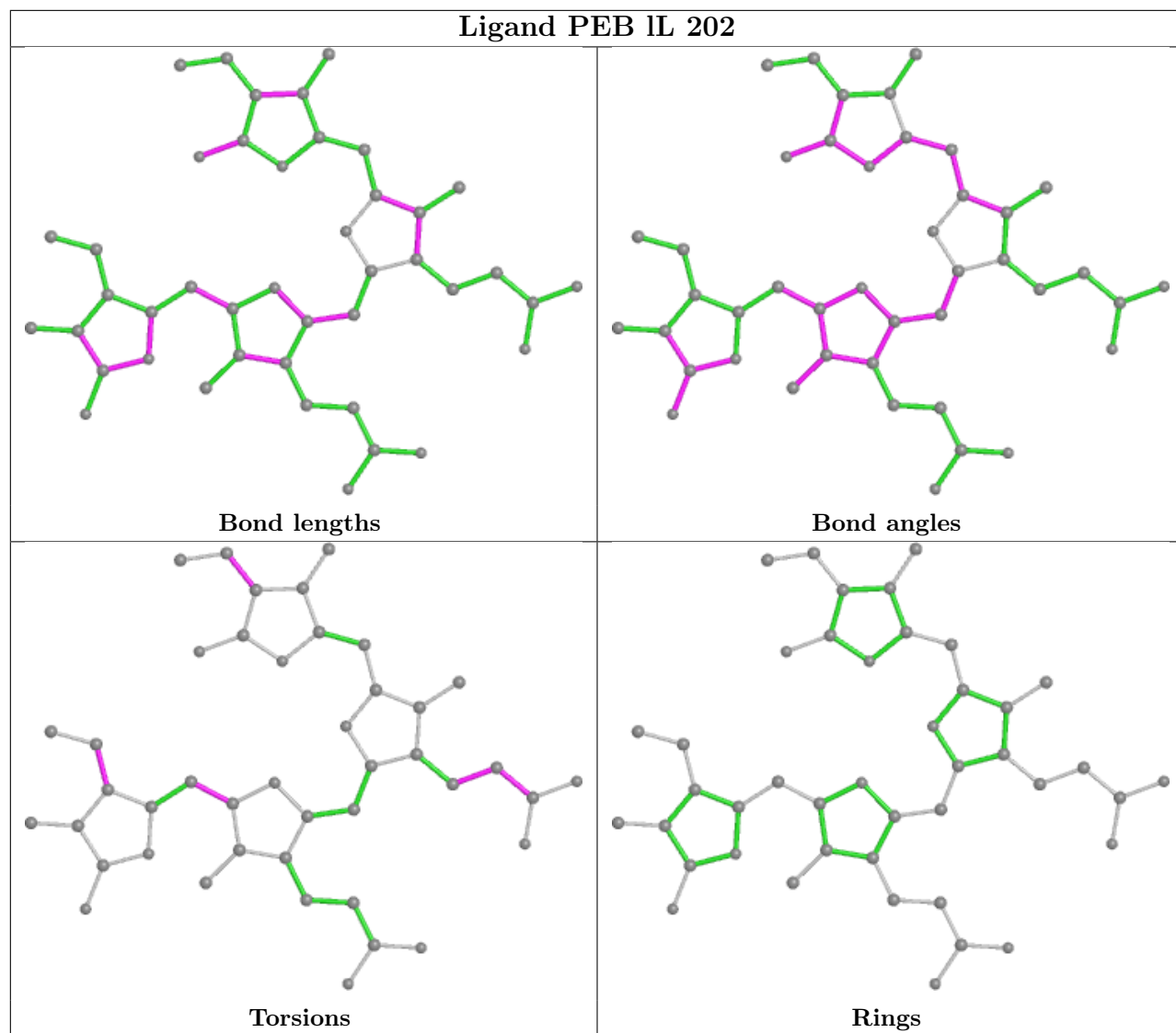
Bond angles



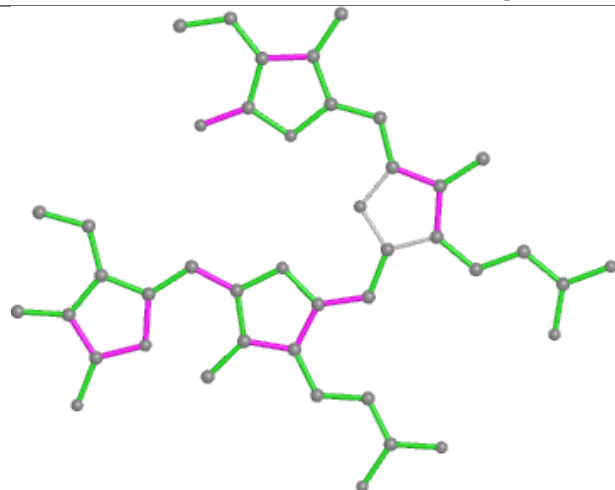
Torsions



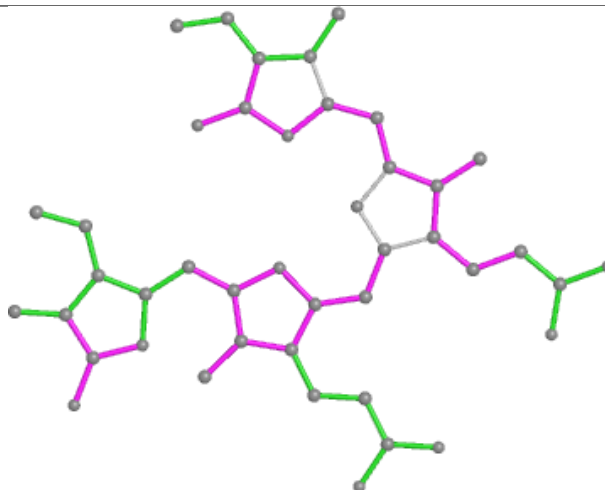
Rings



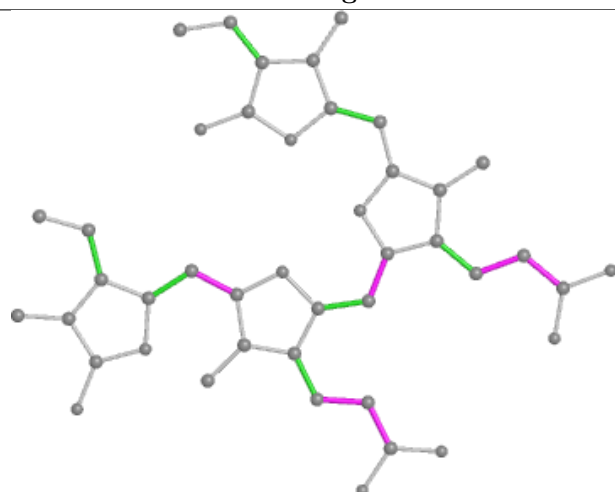
Ligand PEB WB 202



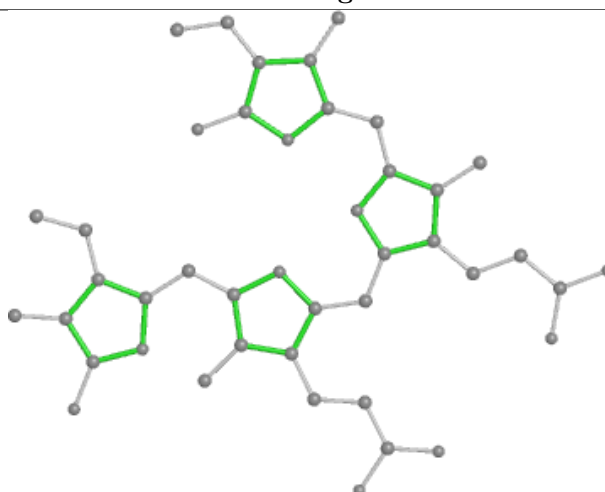
Bond lengths



Bond angles

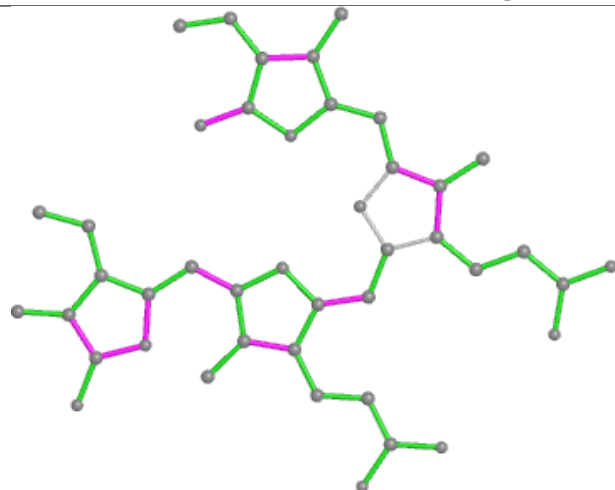


Torsions

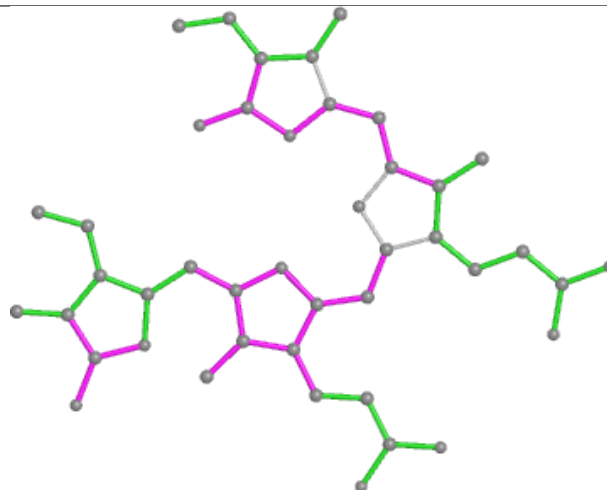


Rings

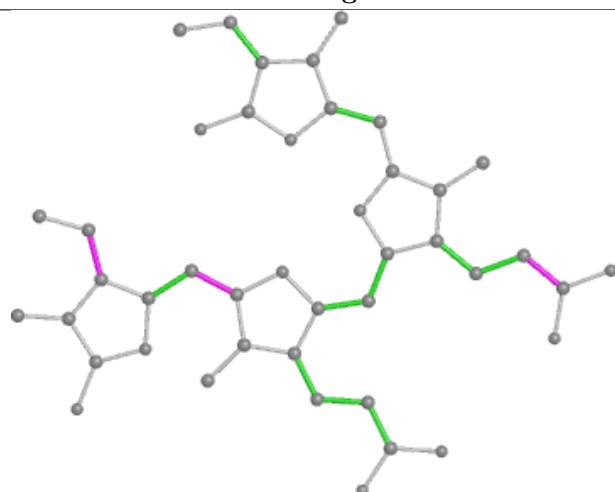
Ligand PEB HM 202



Bond lengths



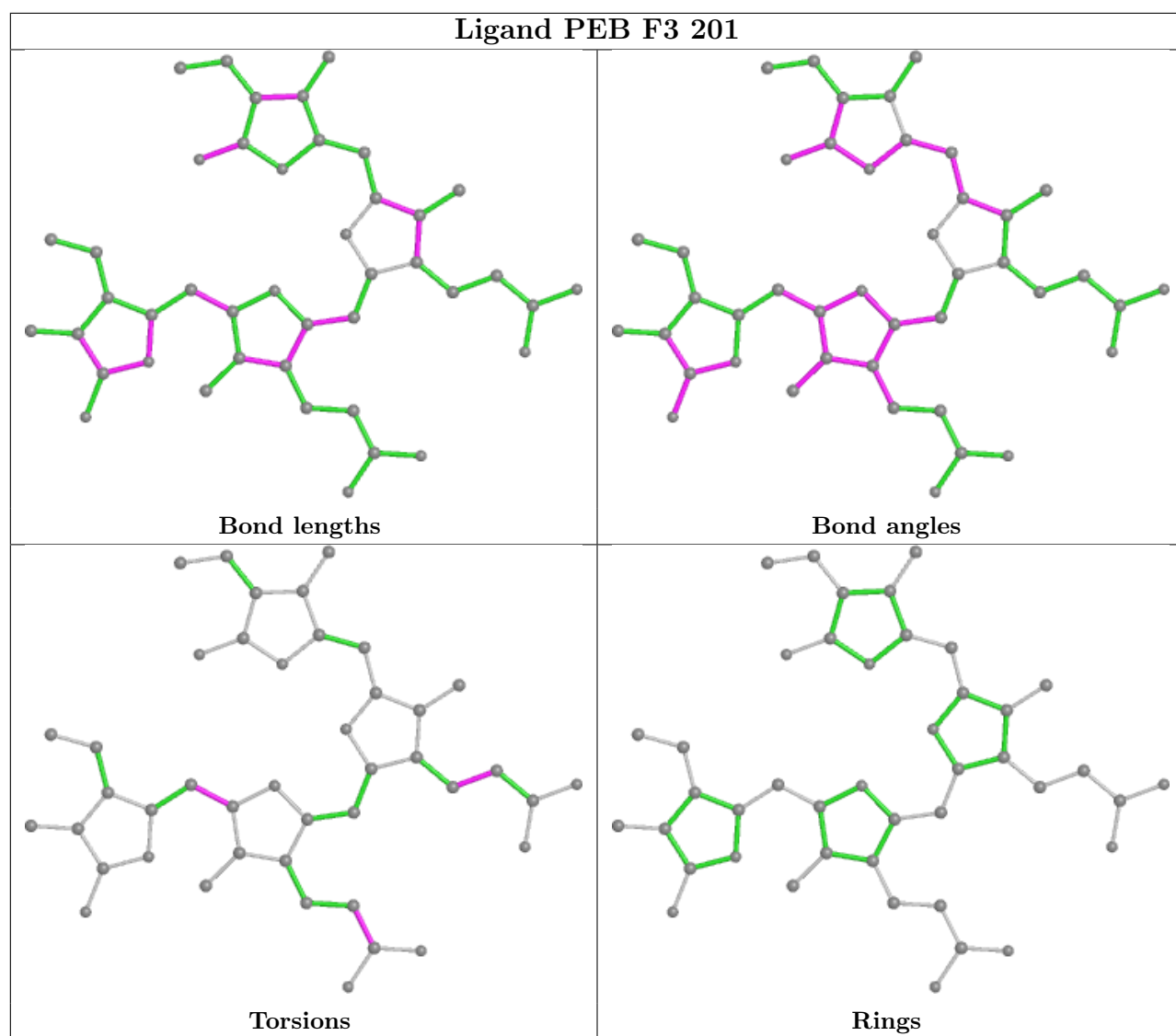
Bond angles

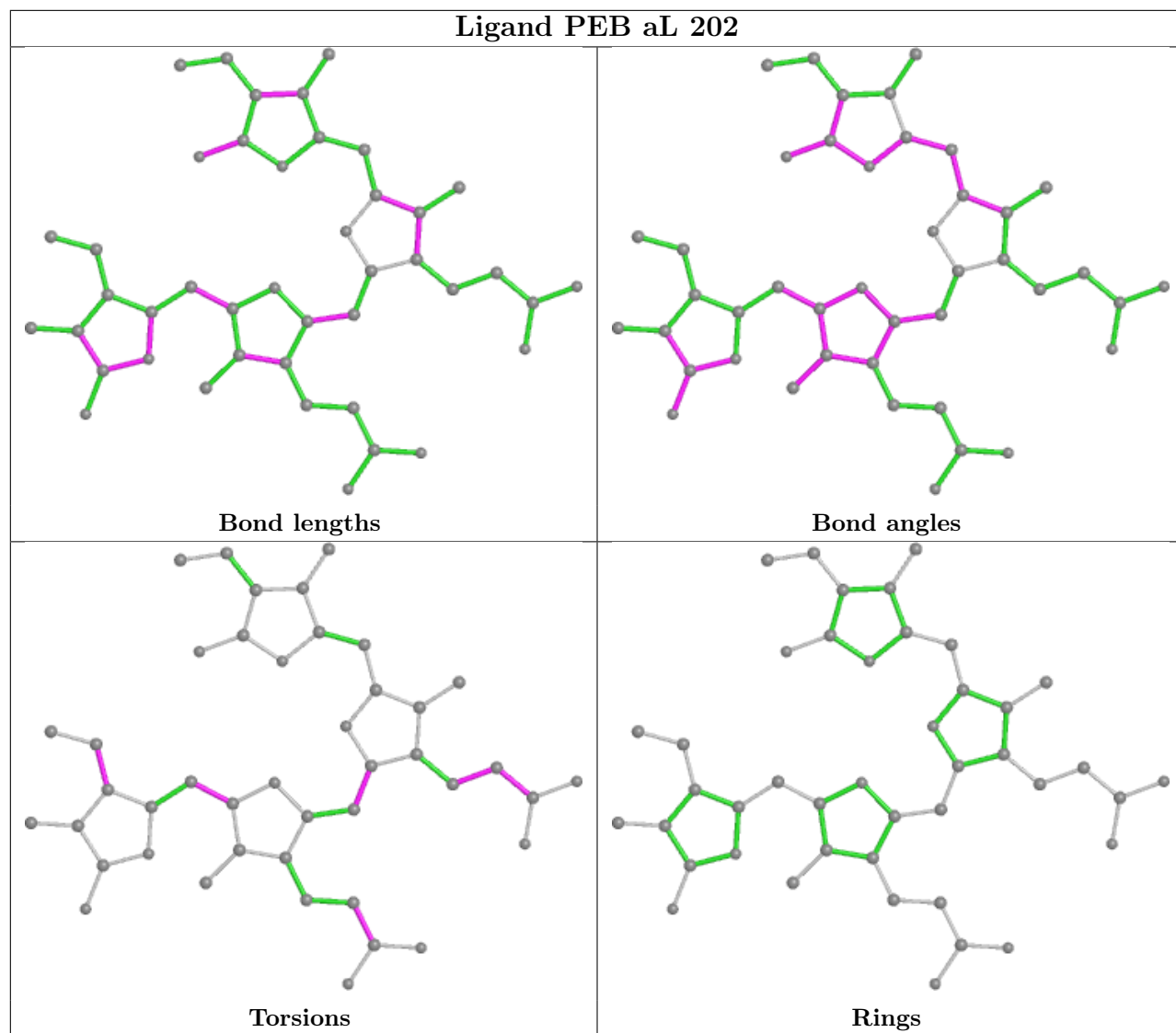


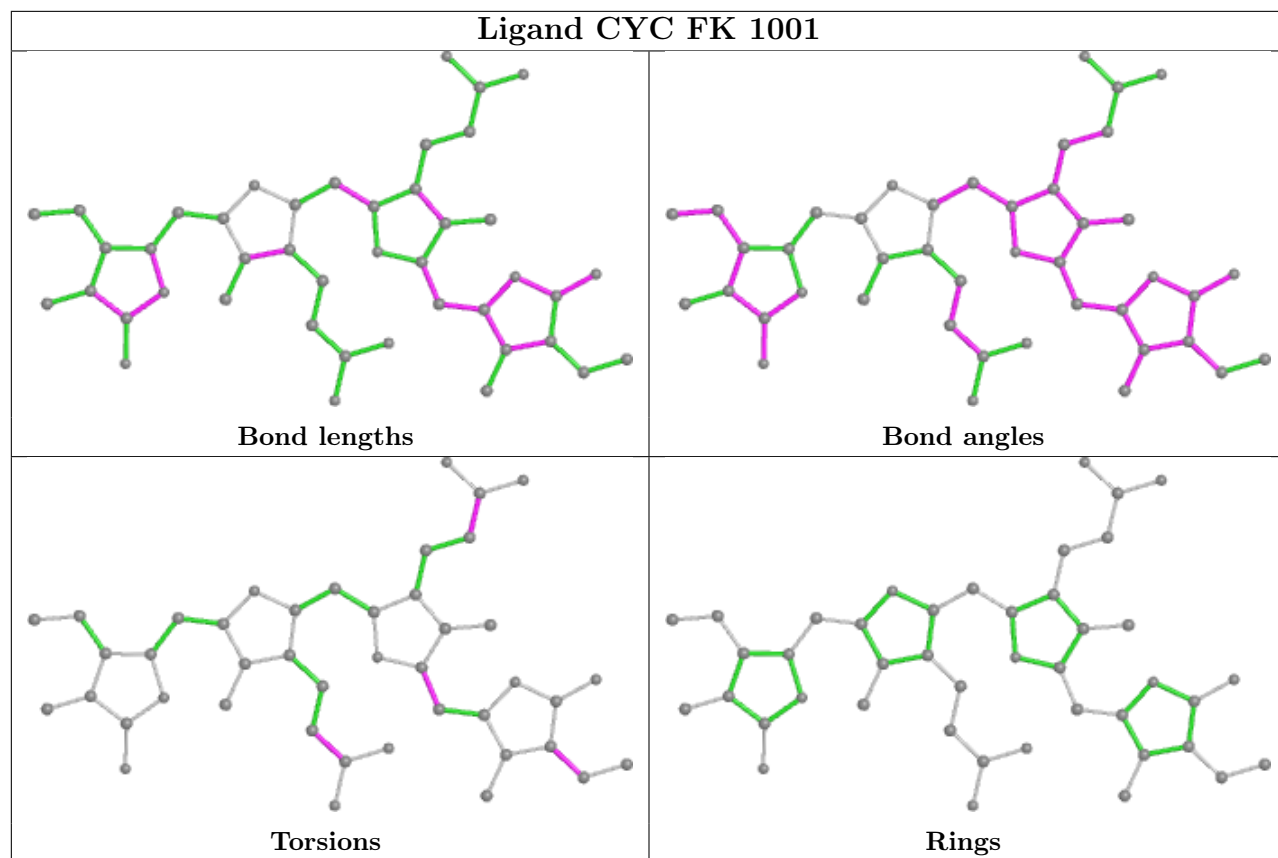
Torsions



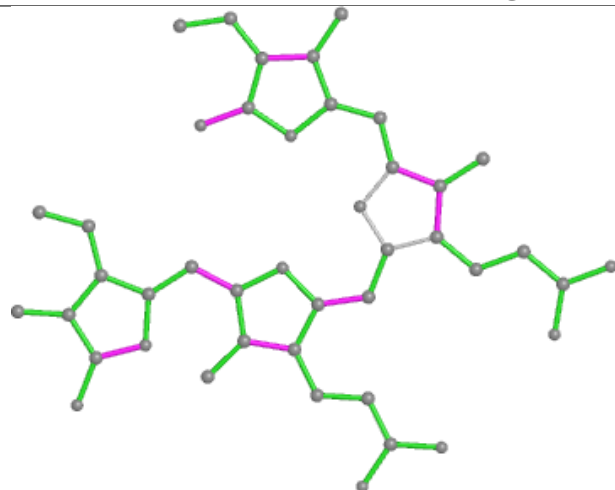
Rings



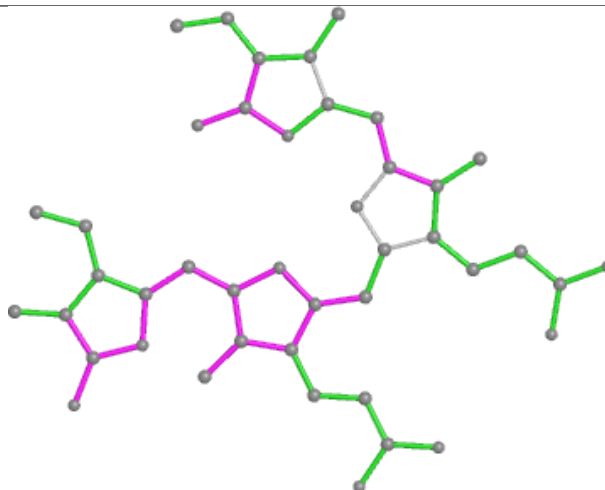




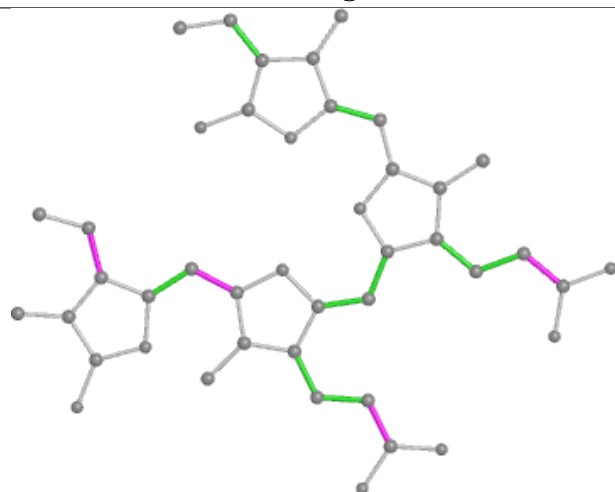
Ligand PEB AB 302



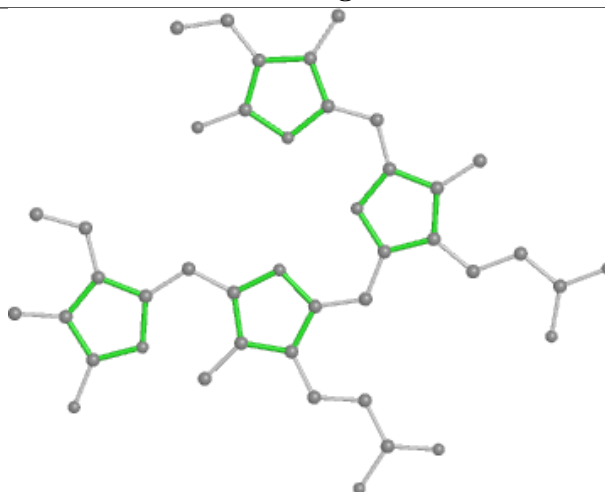
Bond lengths



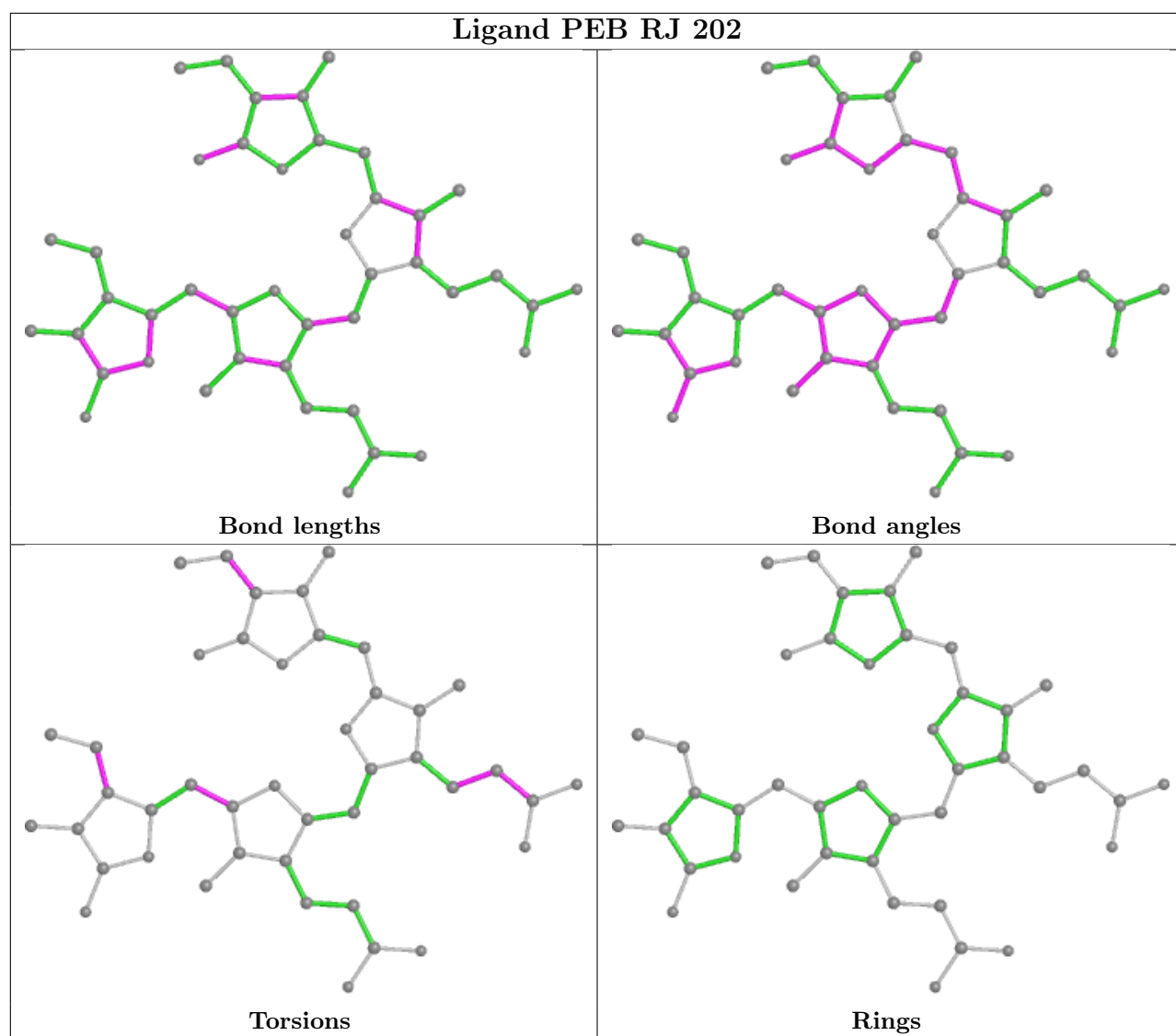
Bond angles



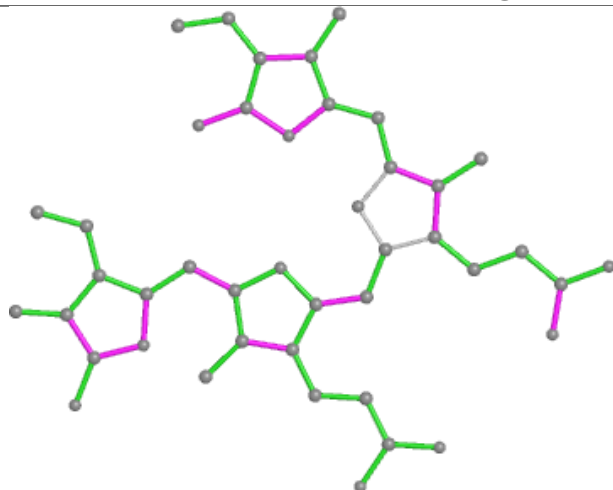
Torsions



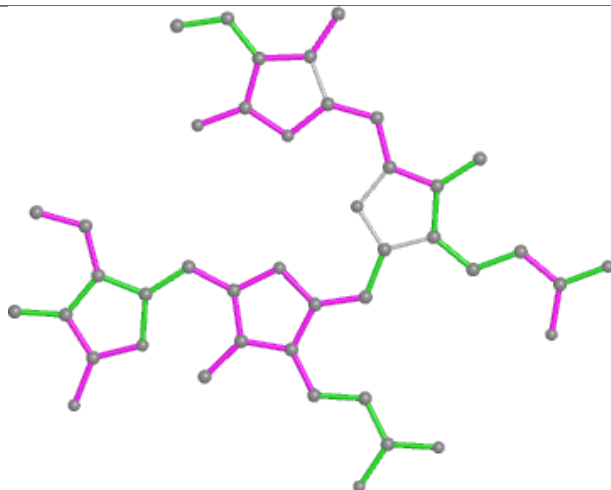
Rings



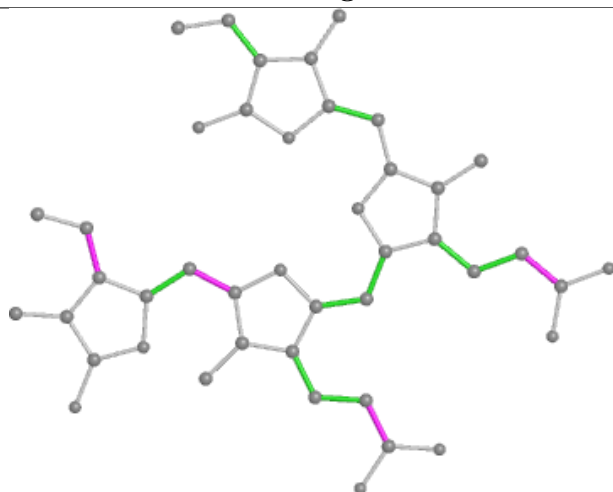
Ligand PEB D1 1002



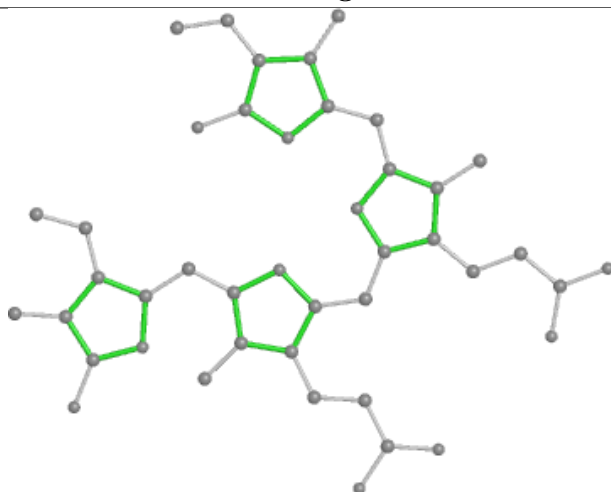
Bond lengths



Bond angles

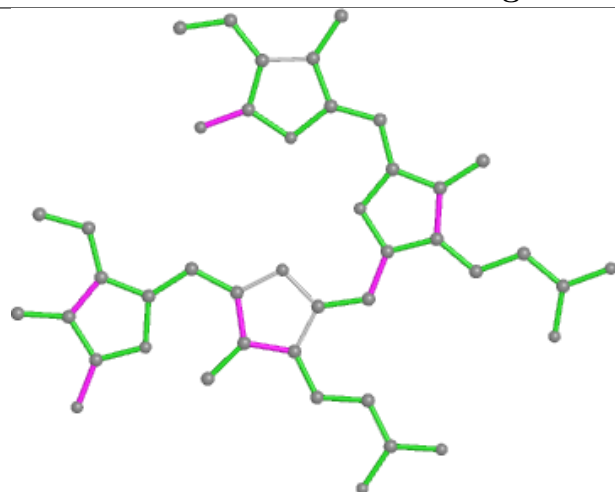


Torsions

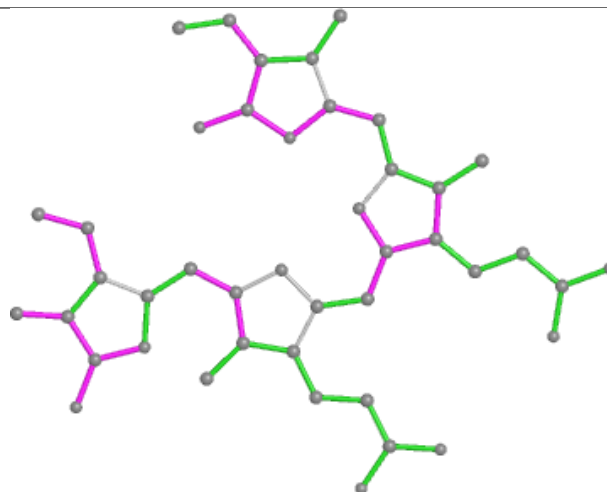


Rings

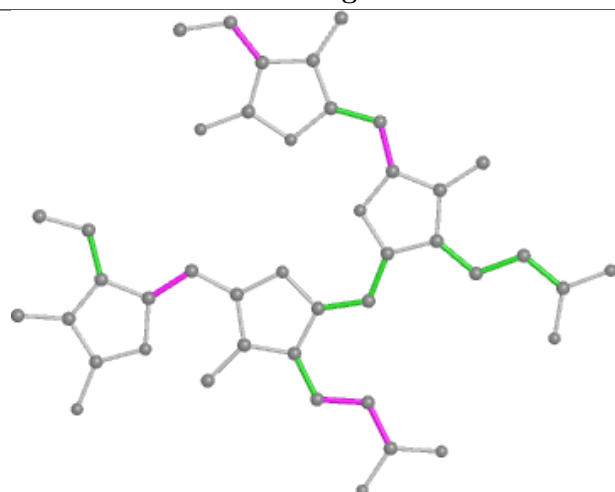
Ligand PUB BB 302



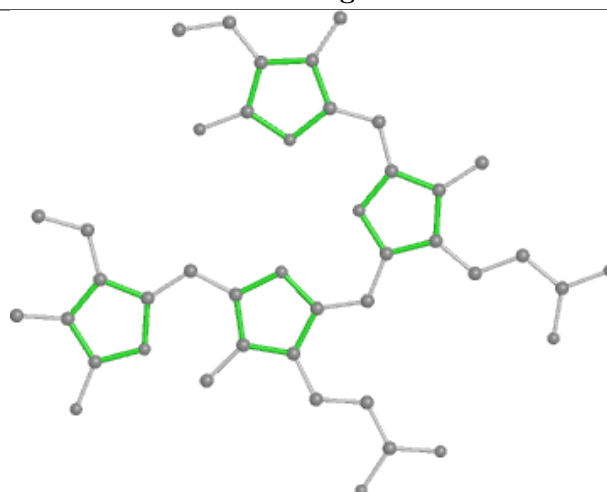
Bond lengths



Bond angles

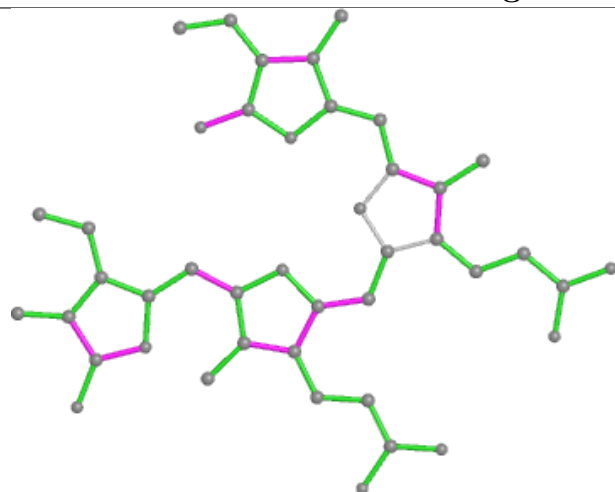


Torsions

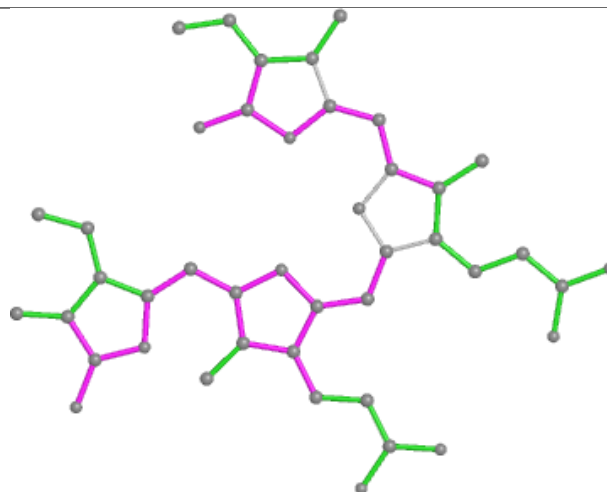


Rings

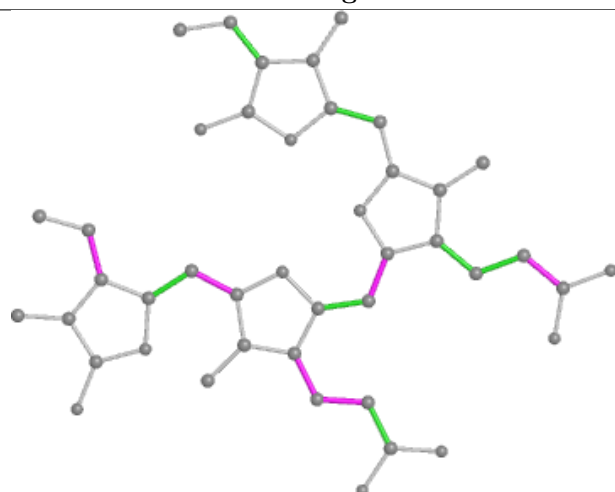
Ligand PEB DA 202



Bond lengths



Bond angles

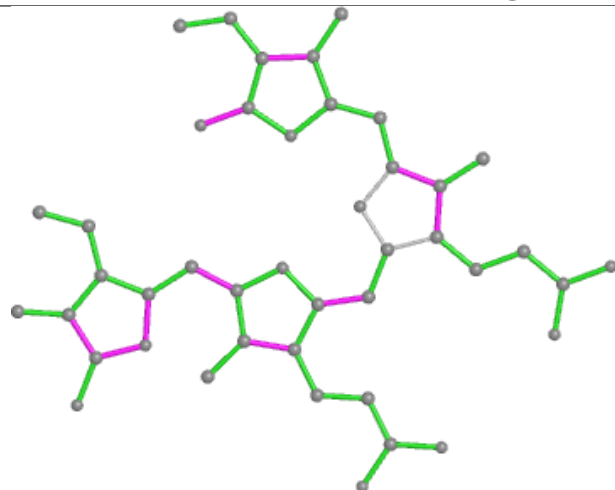


Torsions

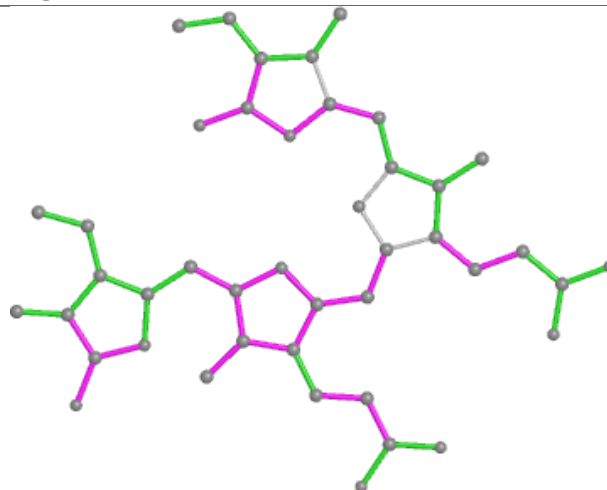


Rings

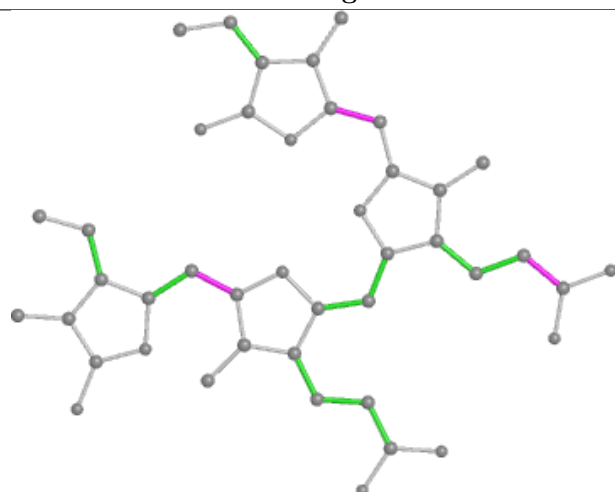
Ligand PEB gM 201



Bond lengths



Bond angles

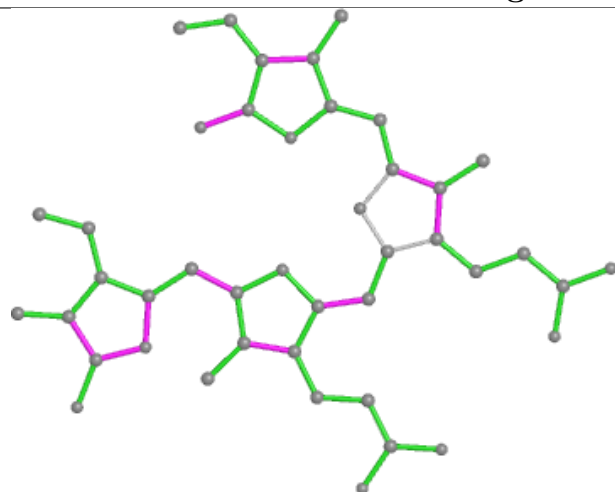


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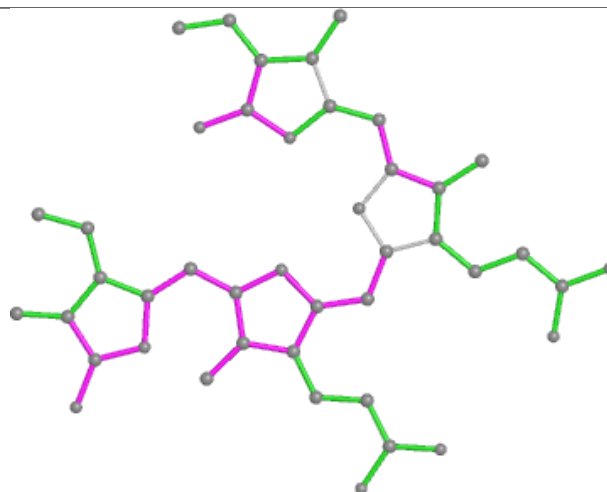


Rings

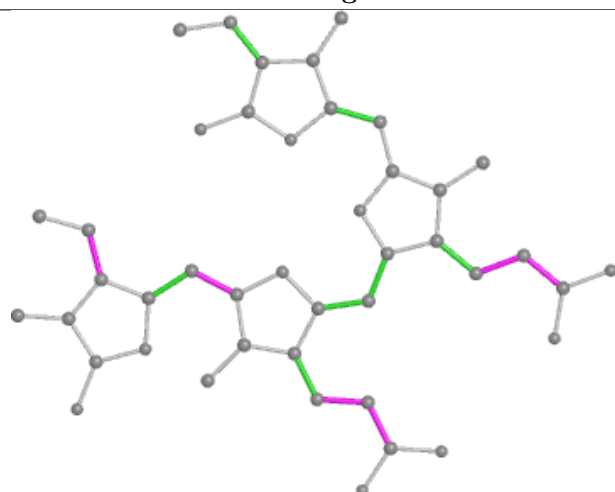
Ligand PEB U1 203



Bond lengths



Bond angles

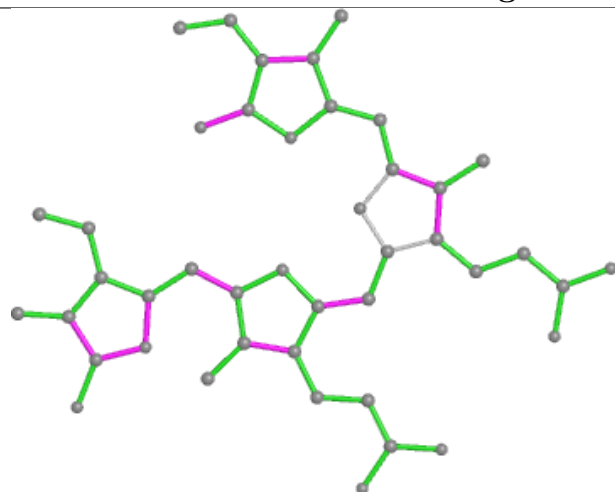


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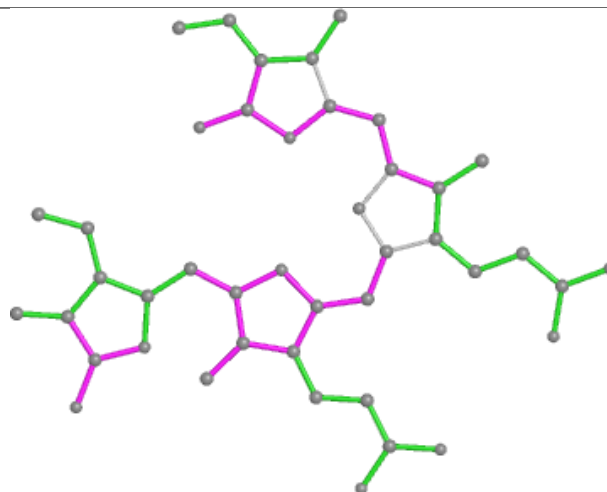


Rings

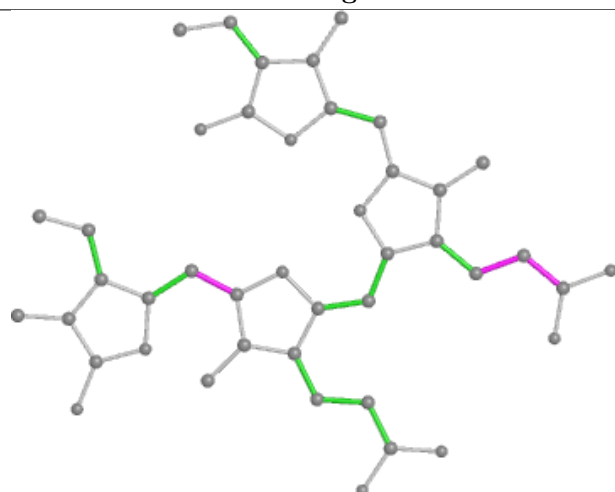
Ligand PEB WB 201



Bond lengths



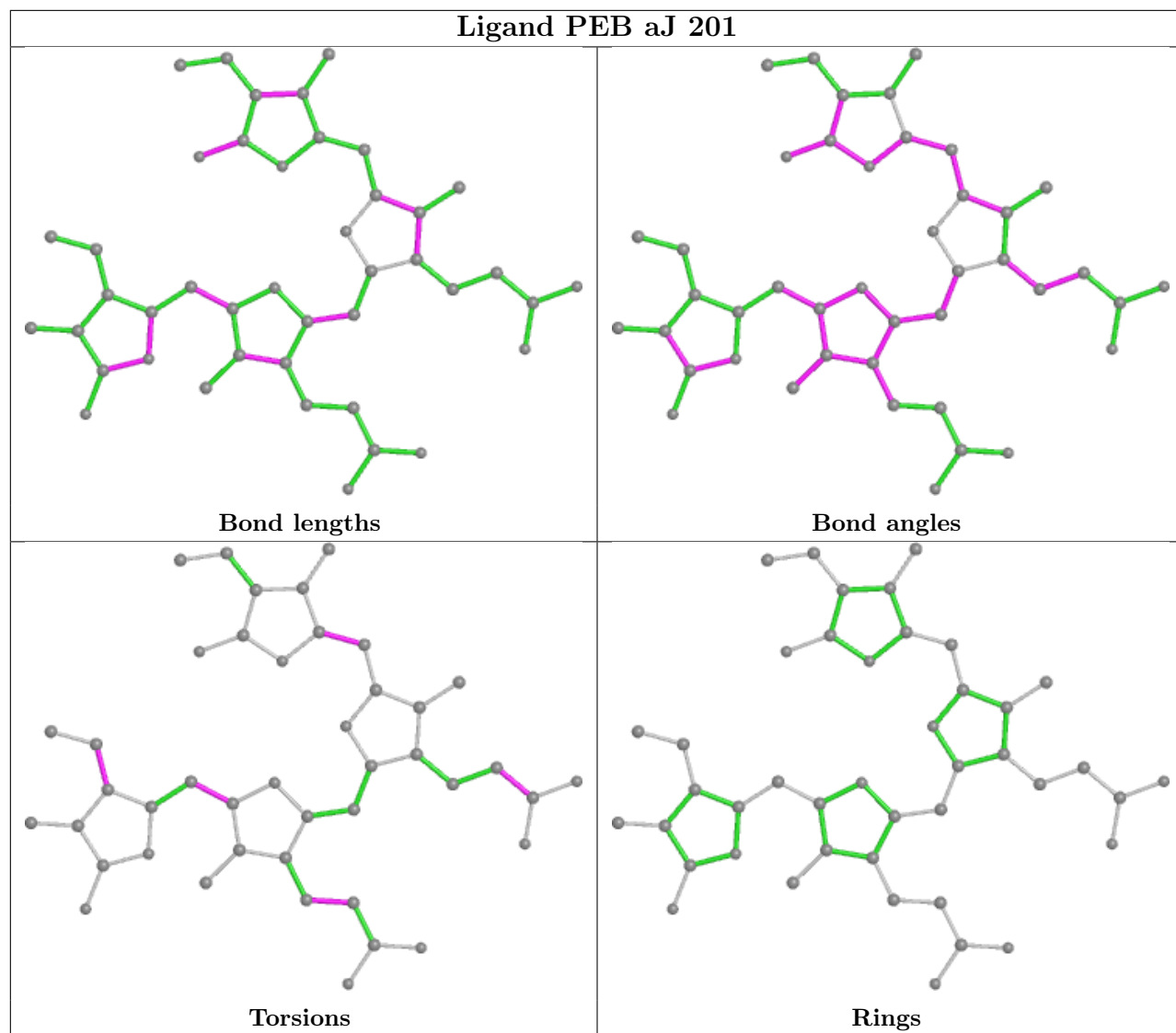
Bond angles



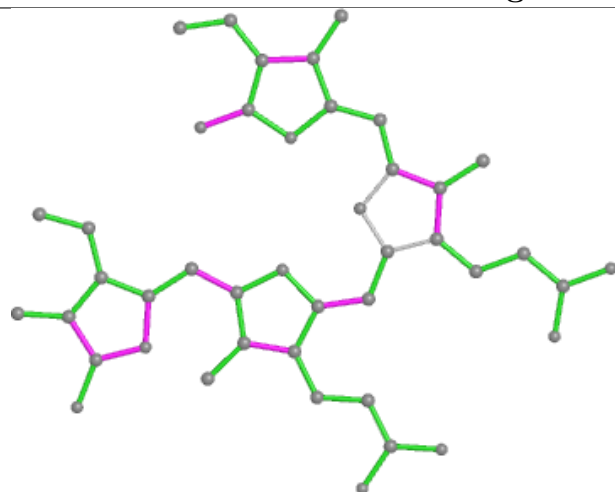
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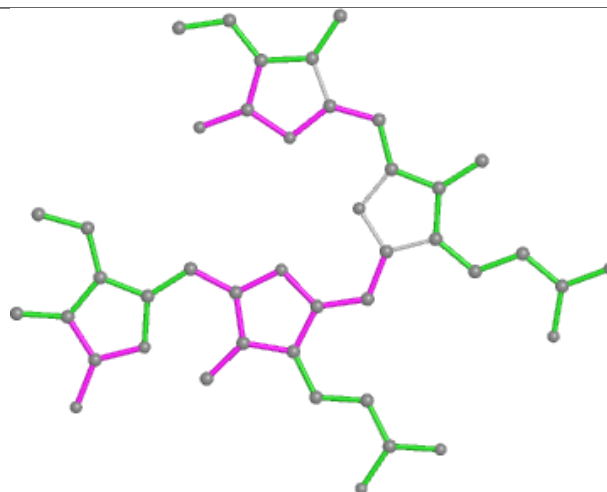
Rings



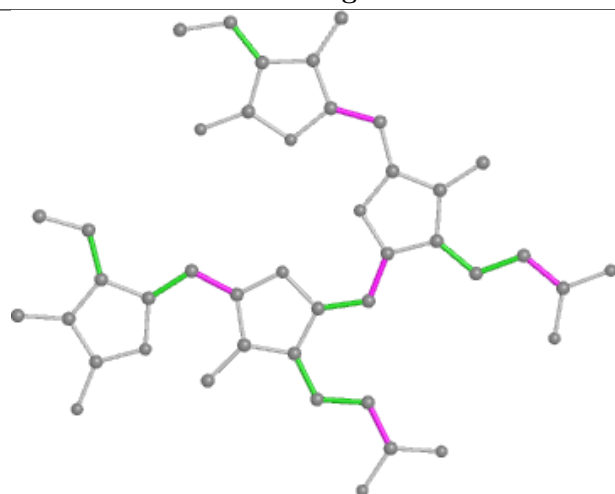
Ligand PEB N3 203



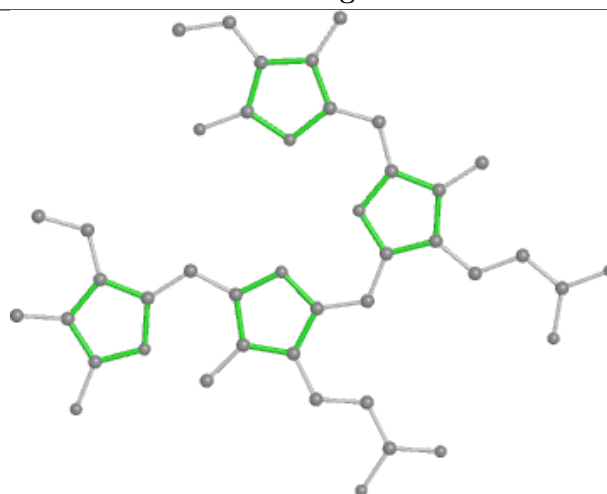
Bond lengths



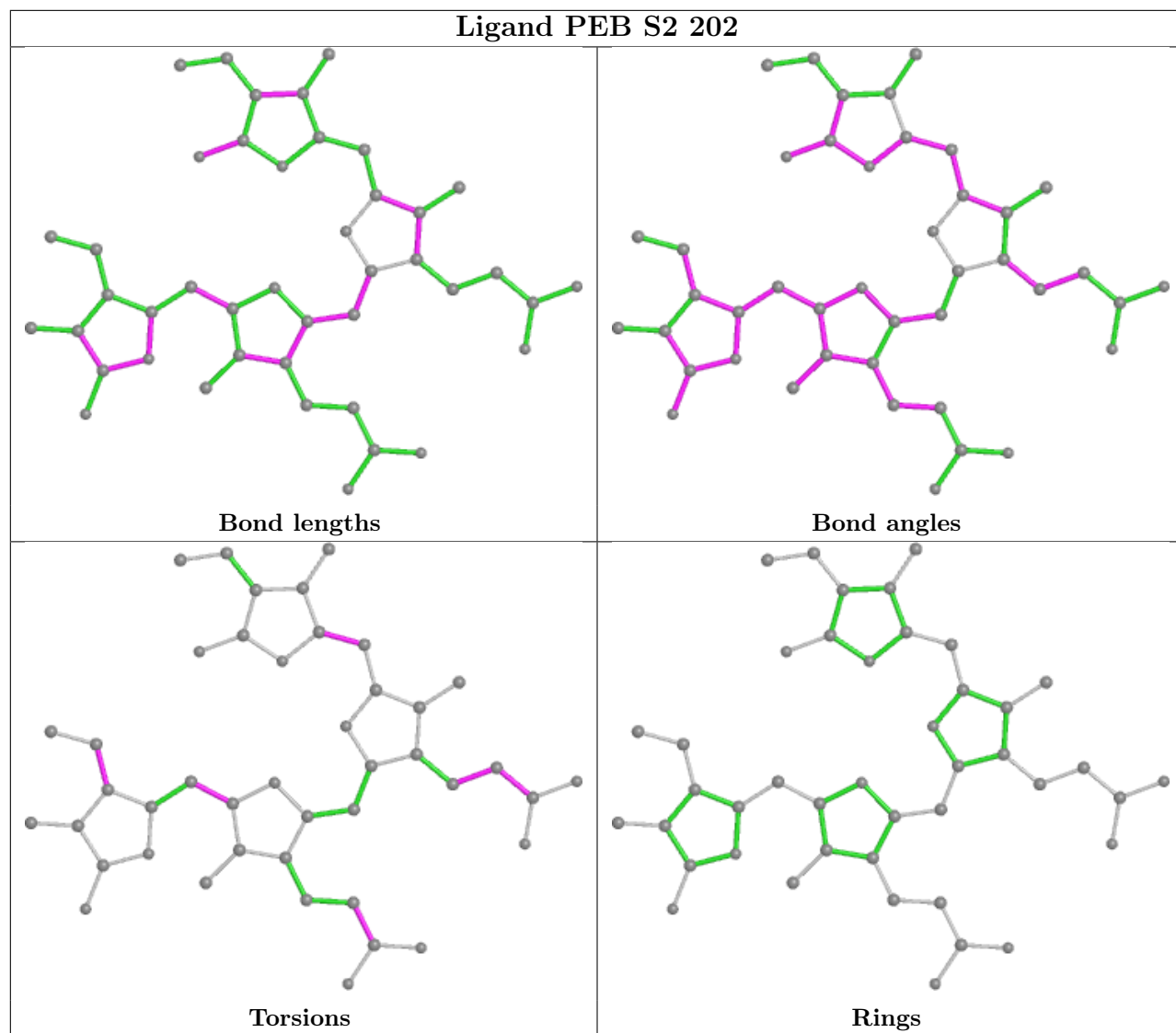
Bond angles



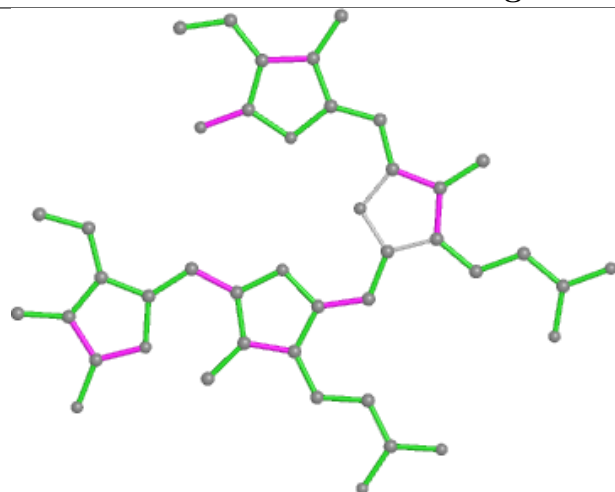
Torsions



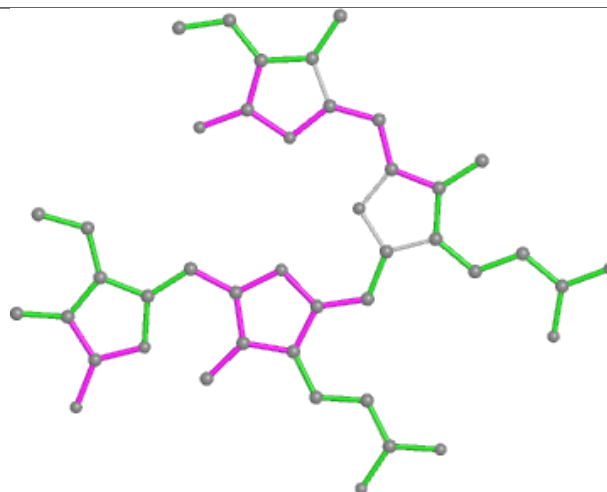
Rings



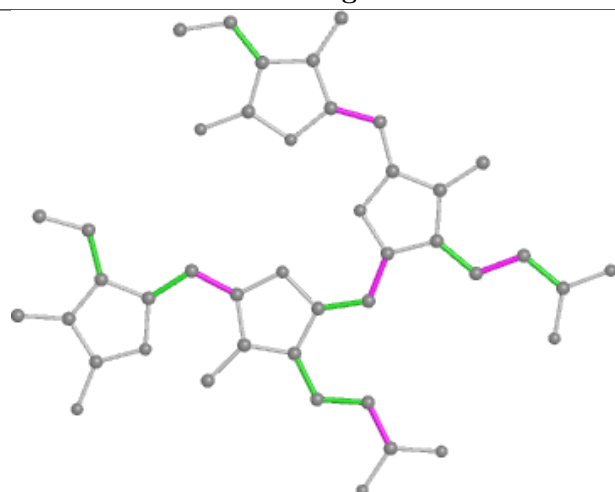
Ligand PEB DE 202



Bond lengths



Bond angles

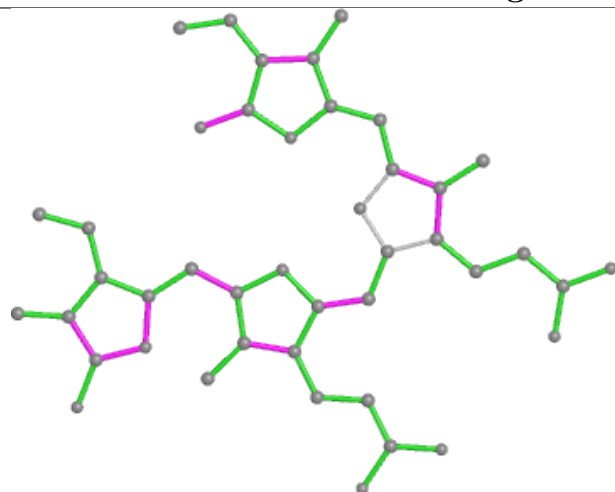


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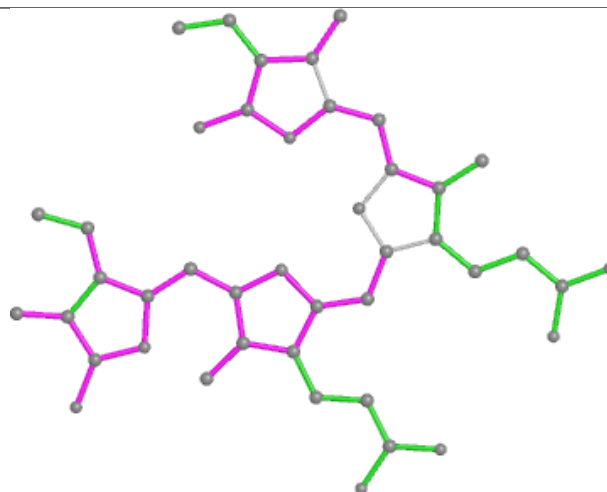


Rings

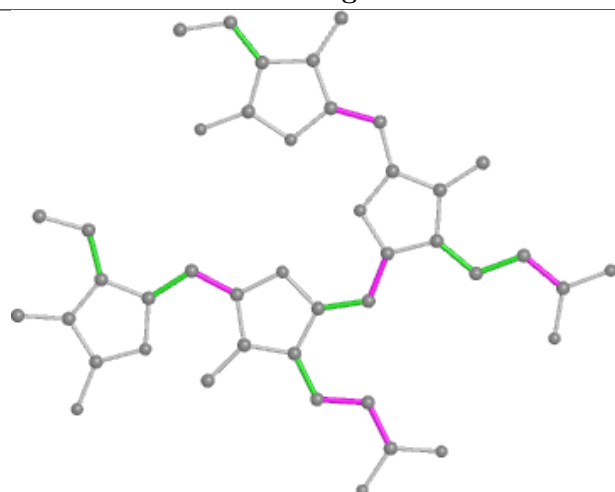
Ligand PEB H4 202



Bond lengths



Bond angles

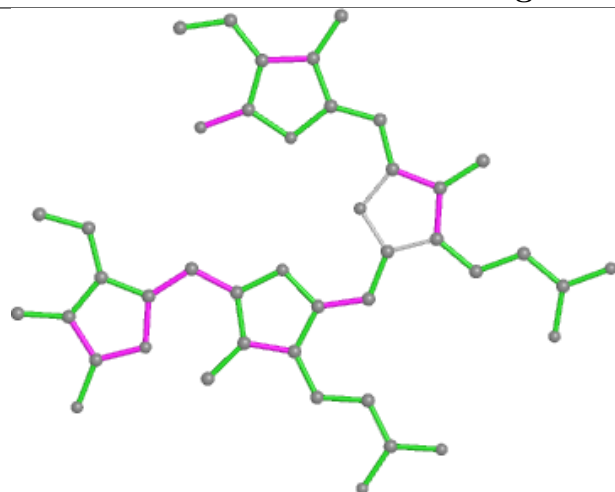


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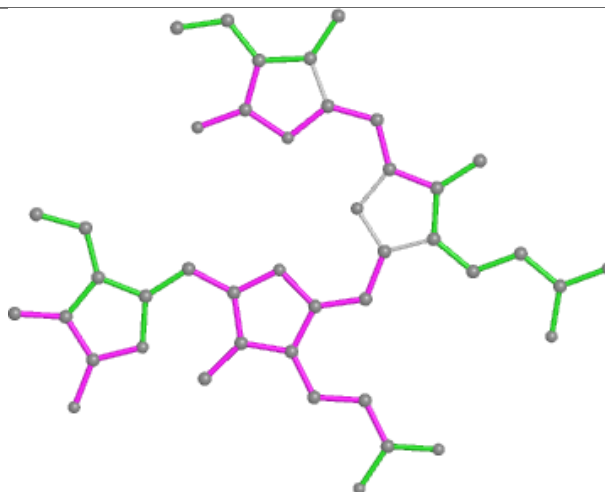


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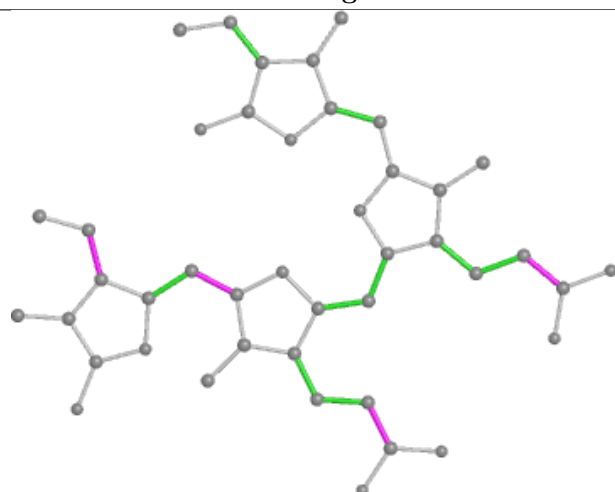
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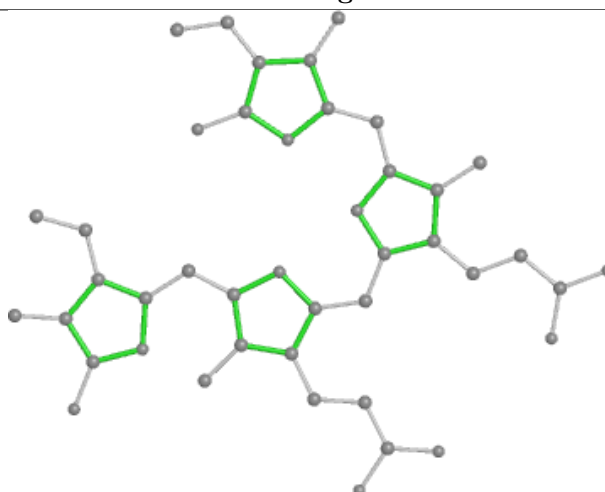
Bond lengths



Bond angles

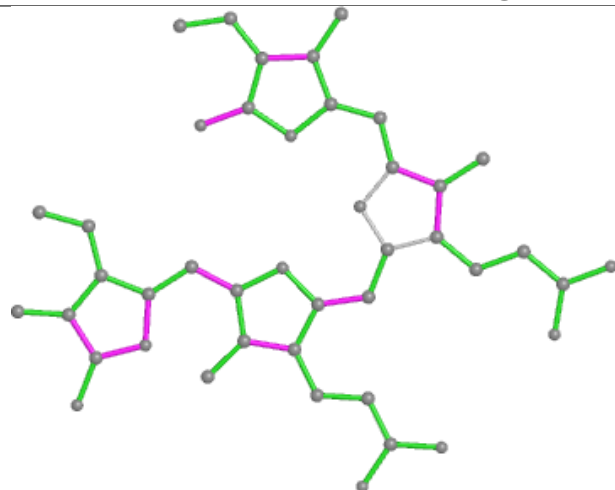


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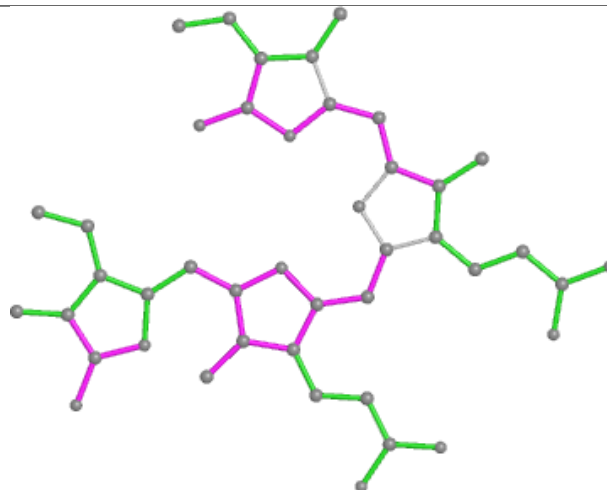


Rings

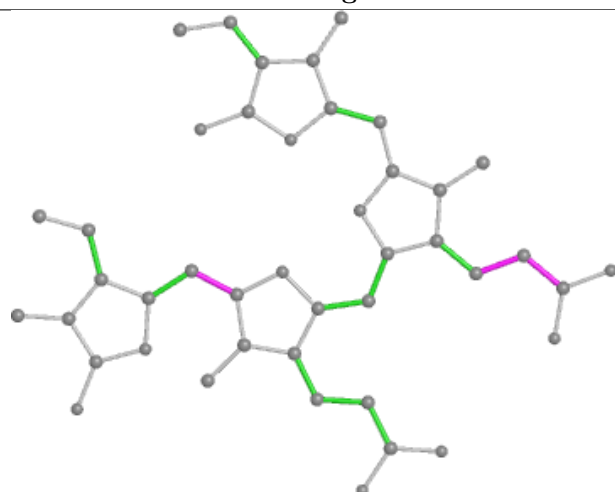
Ligand PEB MM 201



Bond lengths



Bond angles

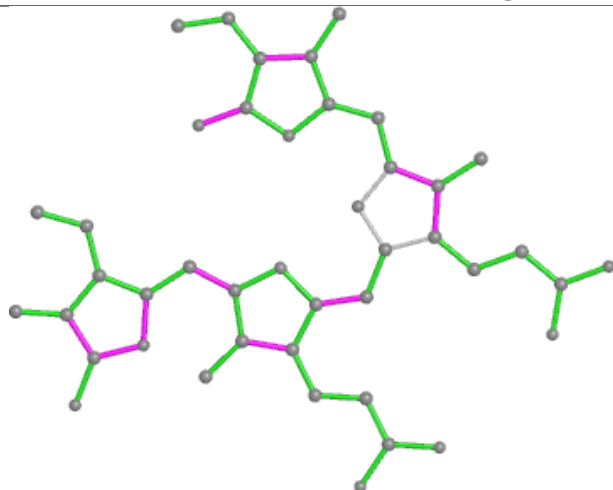


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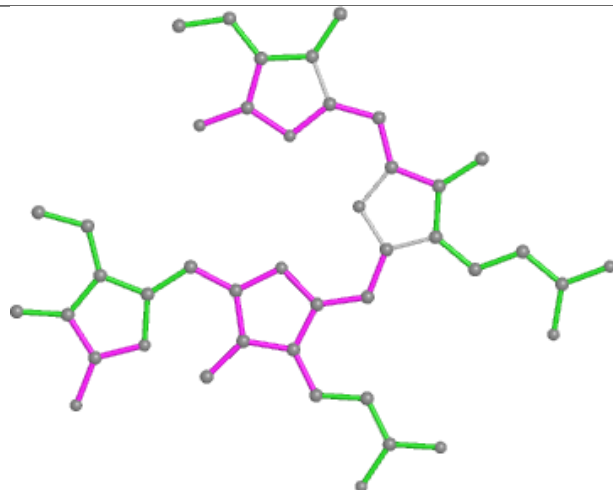


Rings

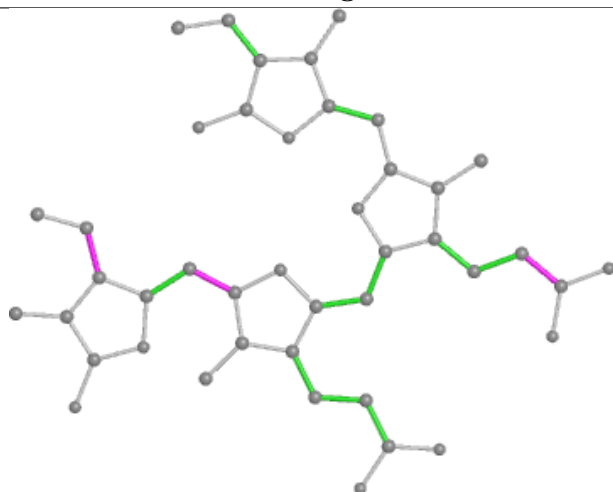
Ligand PEB FM 202



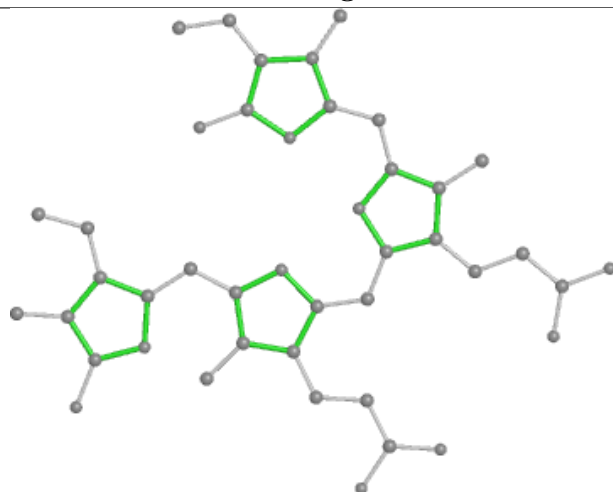
Bond lengths



Bond angles

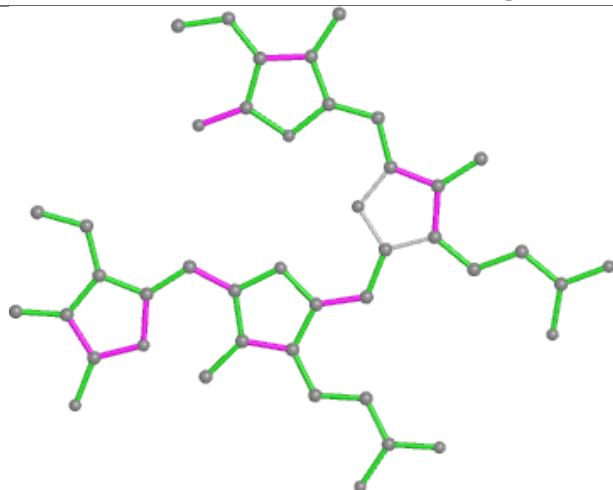


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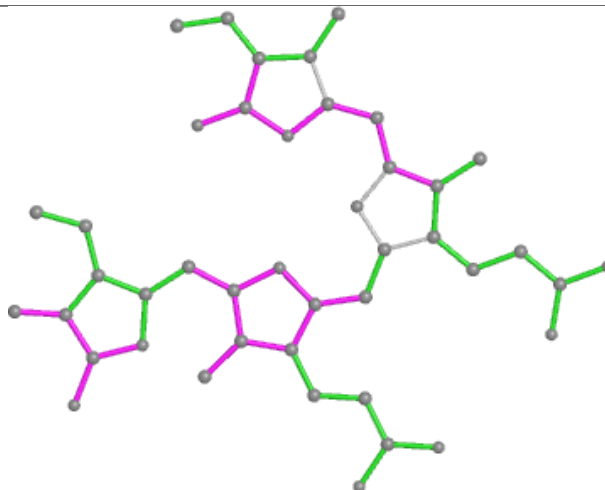


Rings

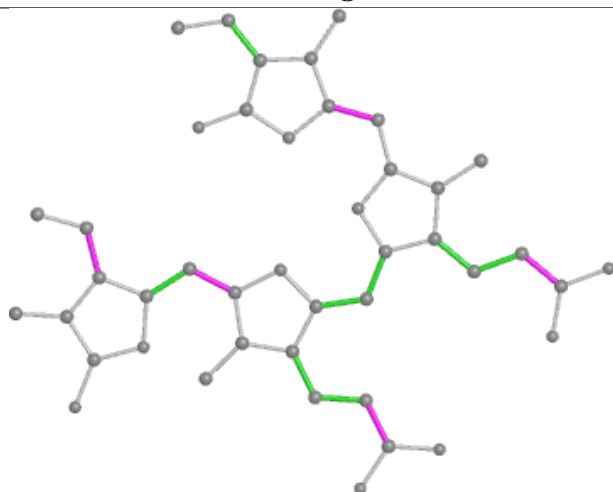
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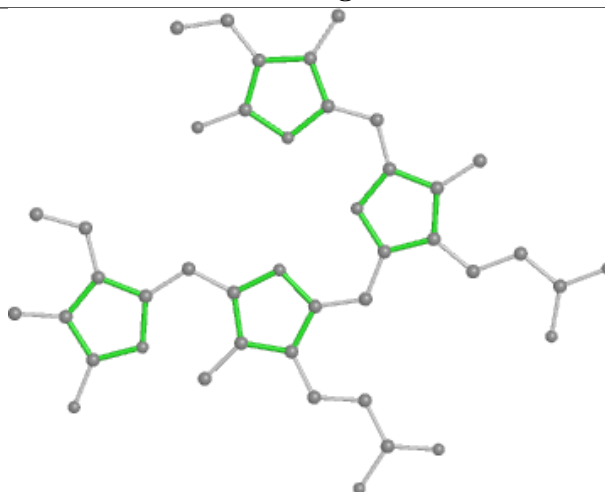
Bond lengths



Bond angles

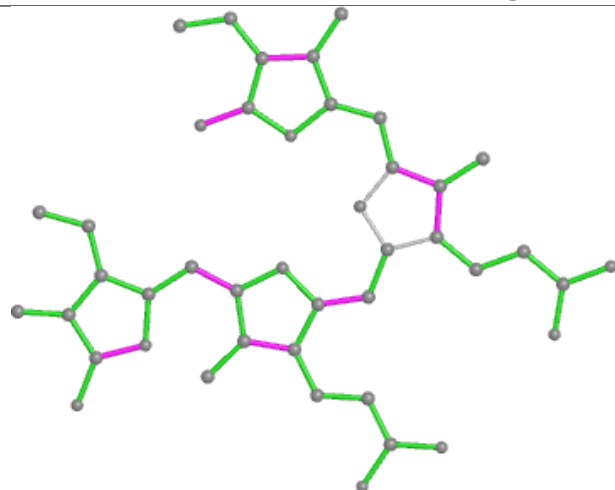


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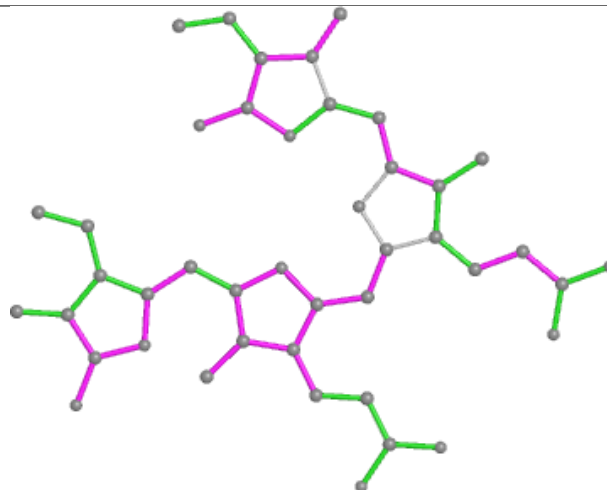


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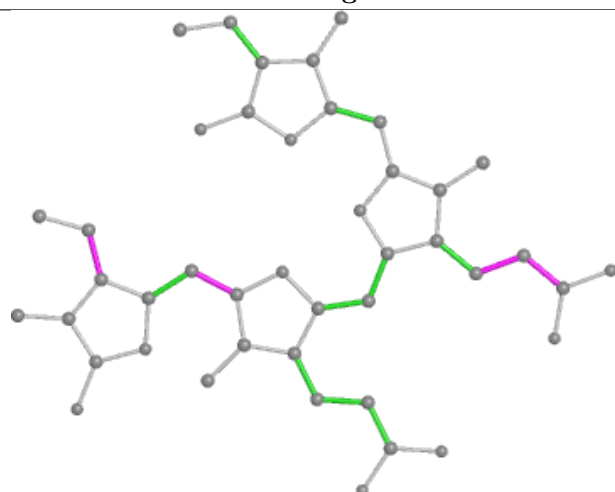
Ligand PEB TR 202



Bond lengths



Bond angles

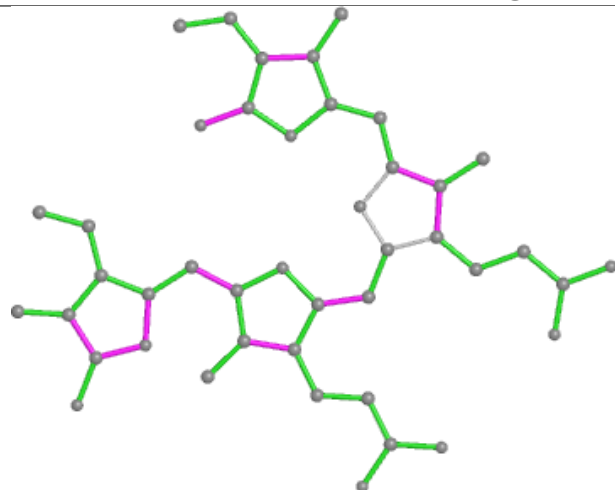


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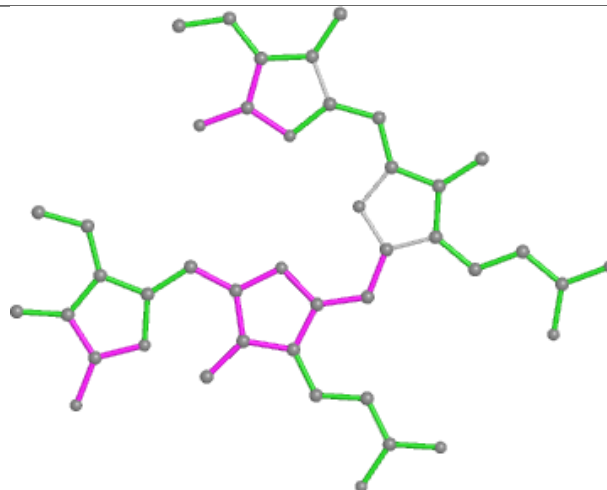


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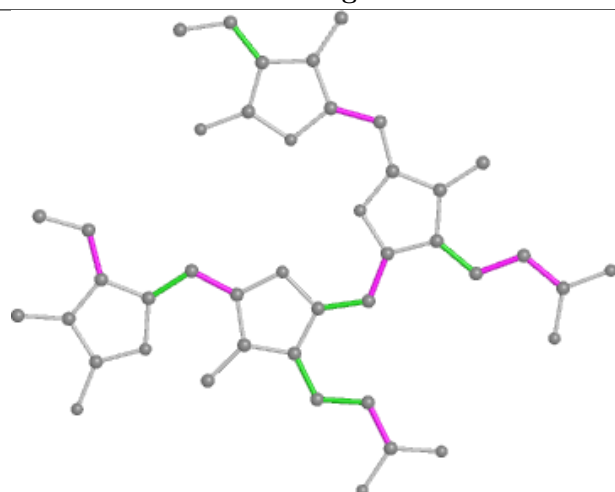
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Bond lengths



Bond angles

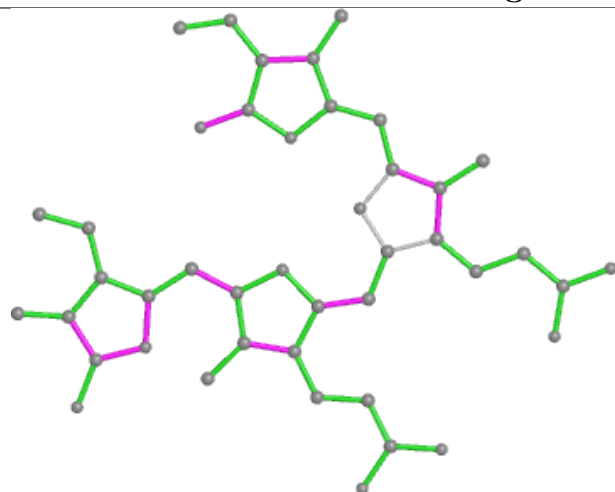


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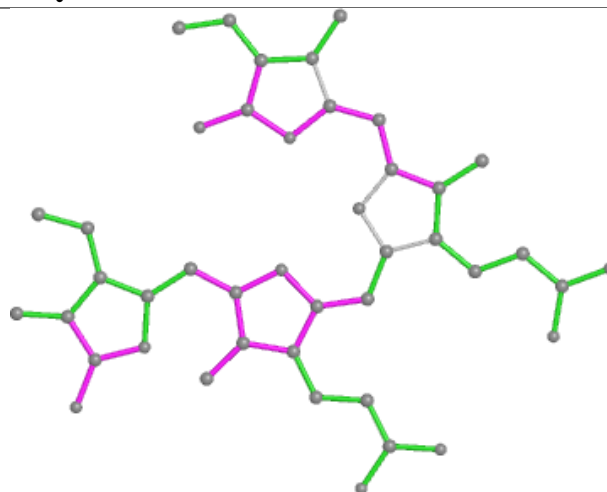


Rings

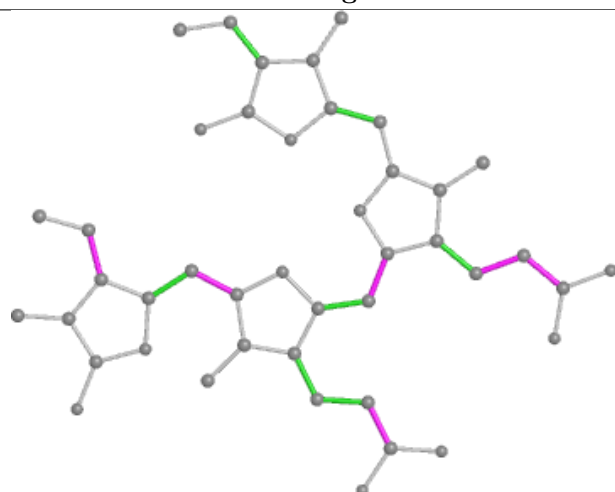
Ligand PEB QL 202



Bond lengths



Bond angles

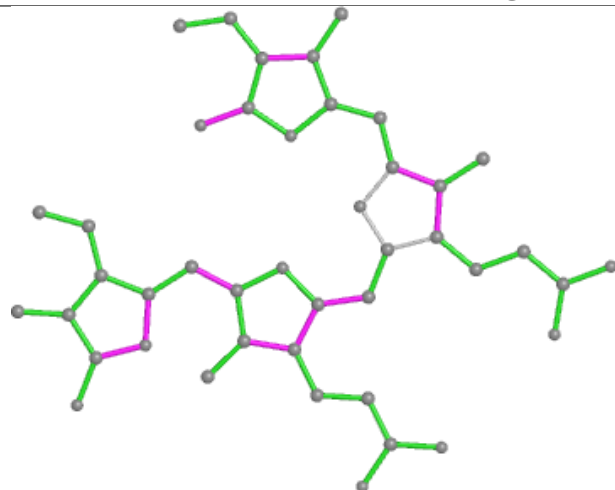


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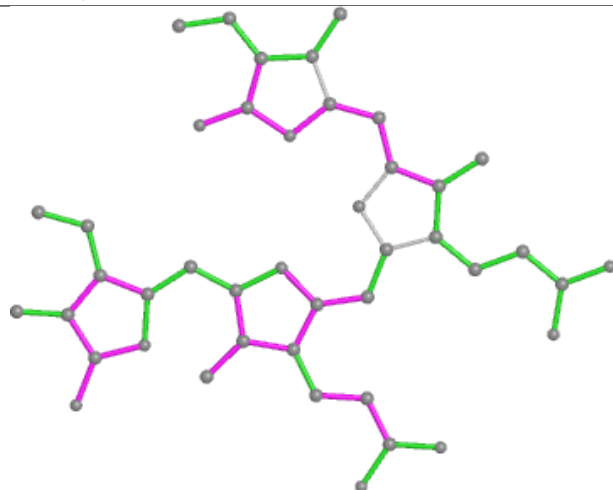


Rings

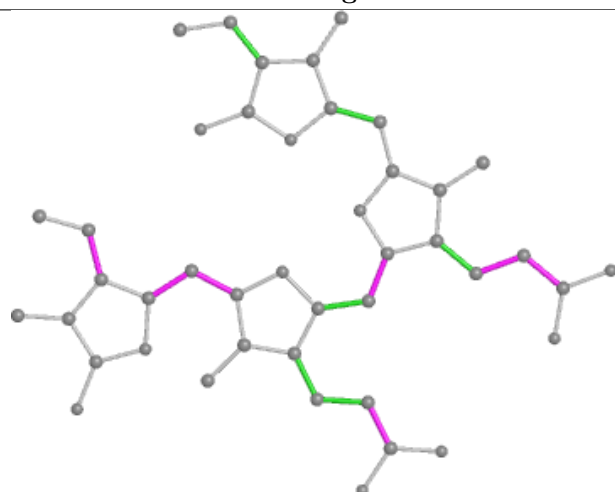
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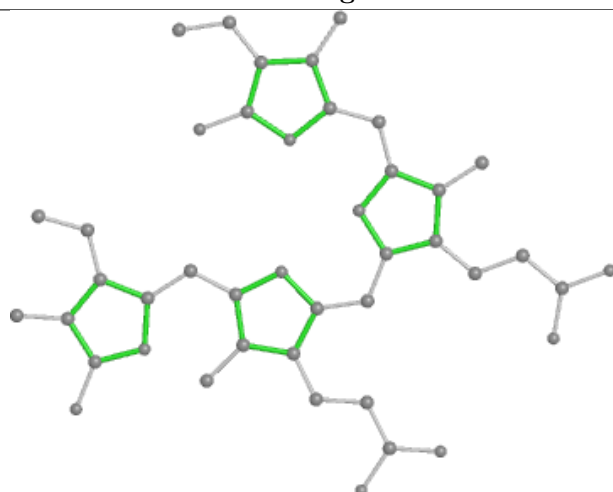
Bond lengths



Bond angles

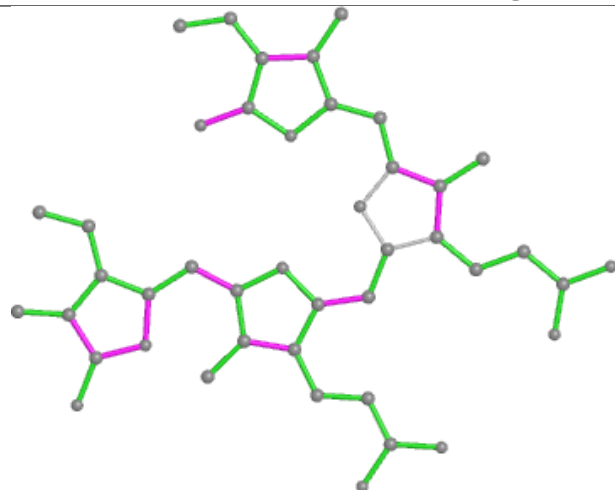


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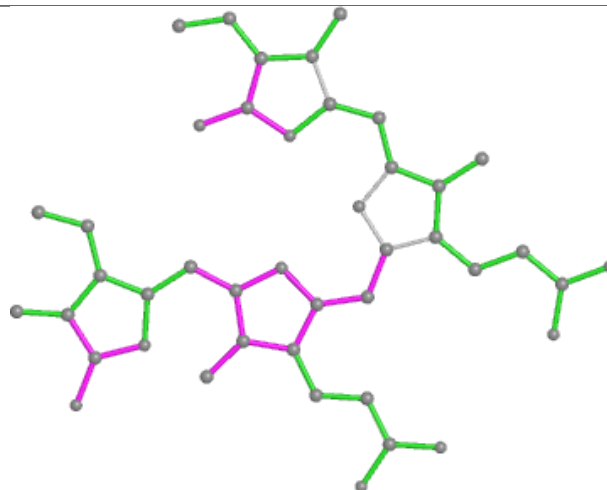


Rings

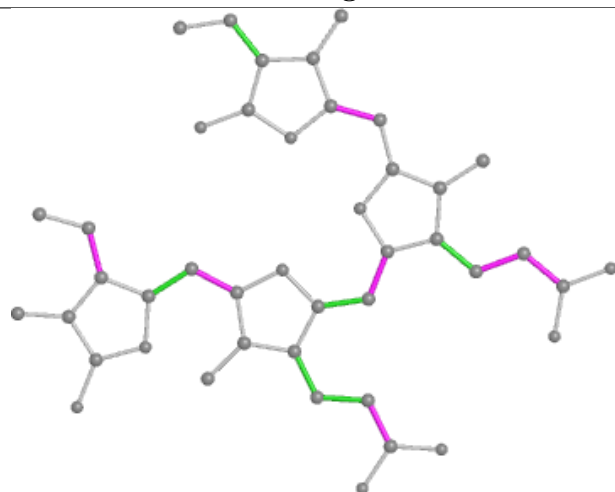
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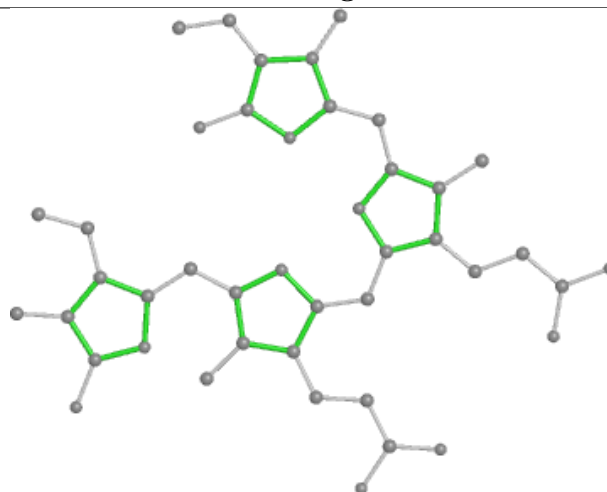
Bond lengths



Bond angles

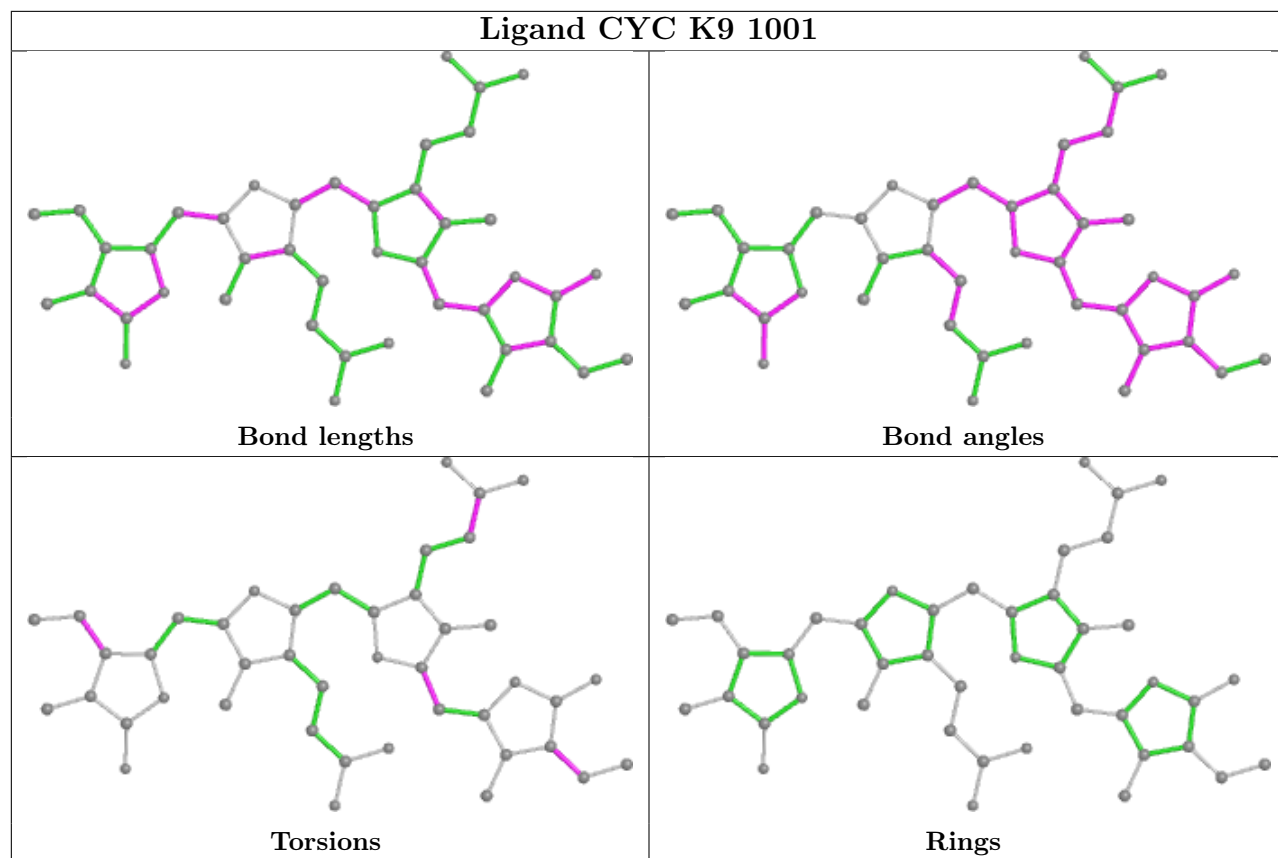


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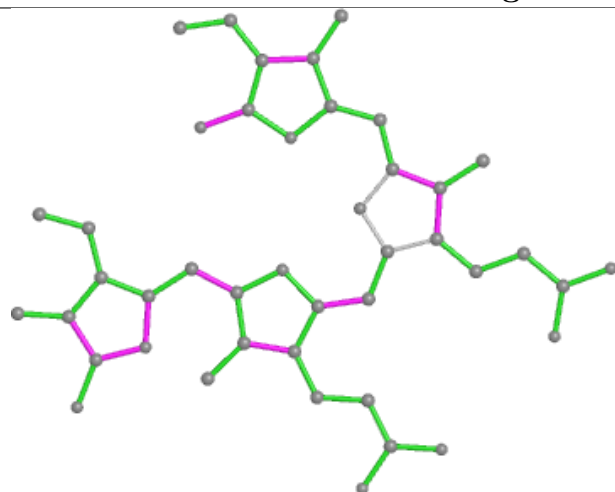


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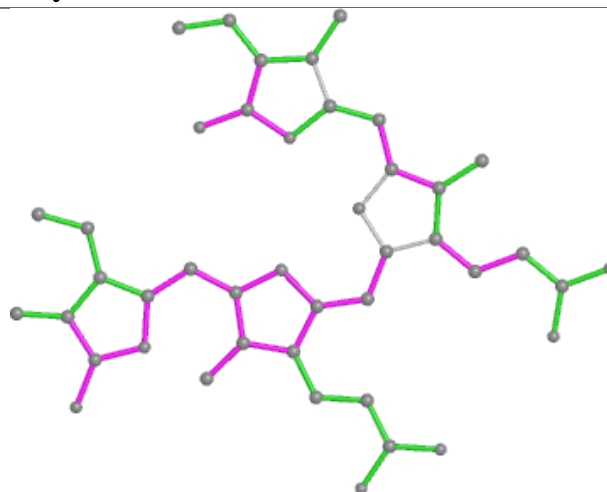
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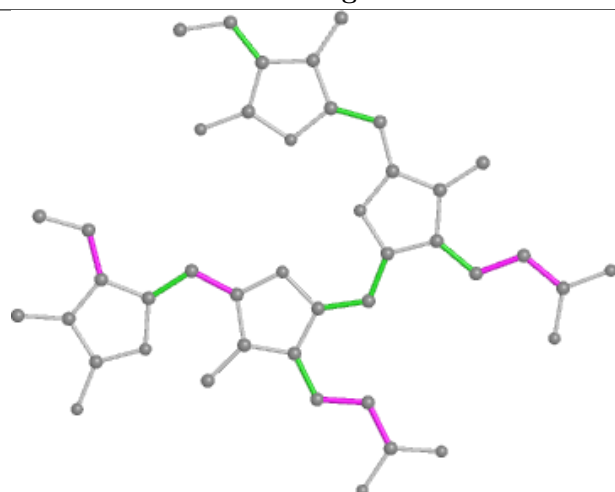
Ligand PEB QK 202



Bond lengths



Bond angles

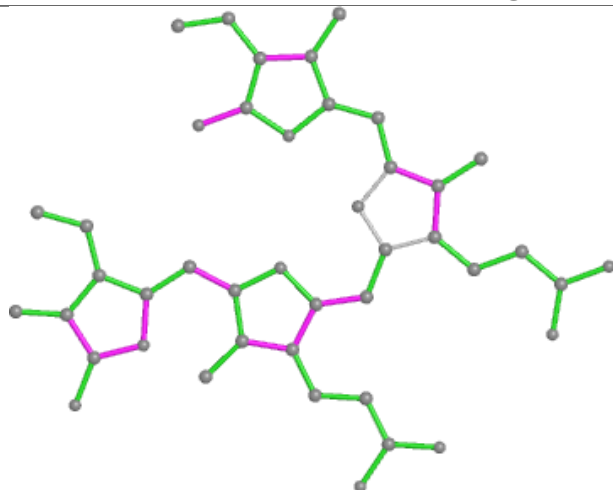


Torsions

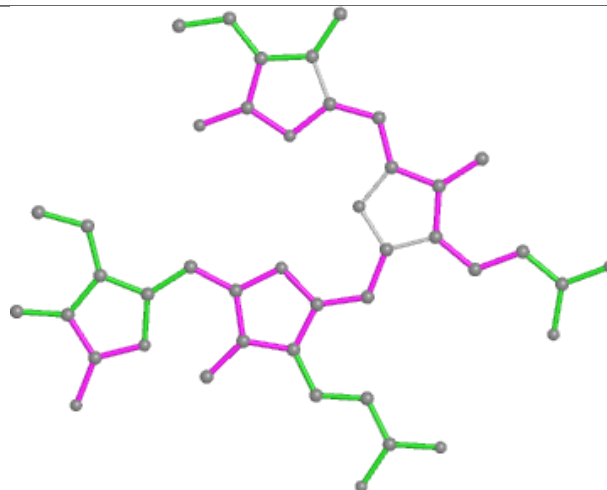


Rings

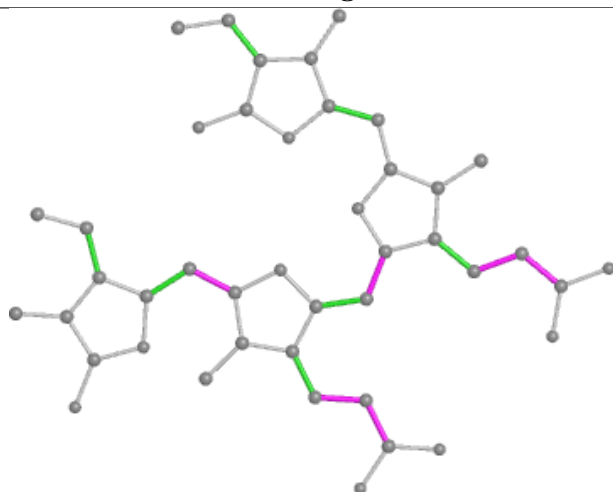
Ligand PEB hB 202



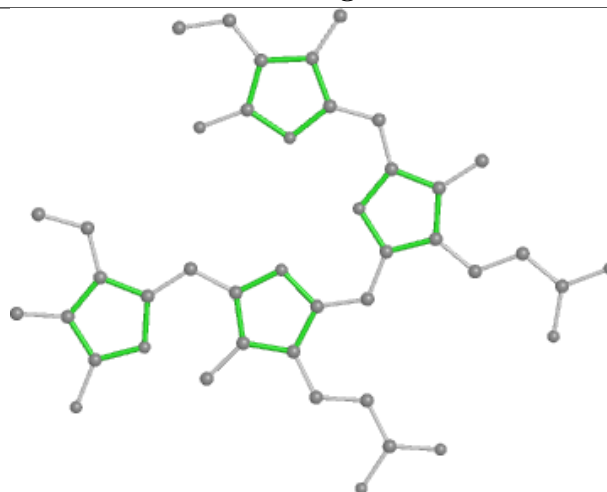
Bond lengths



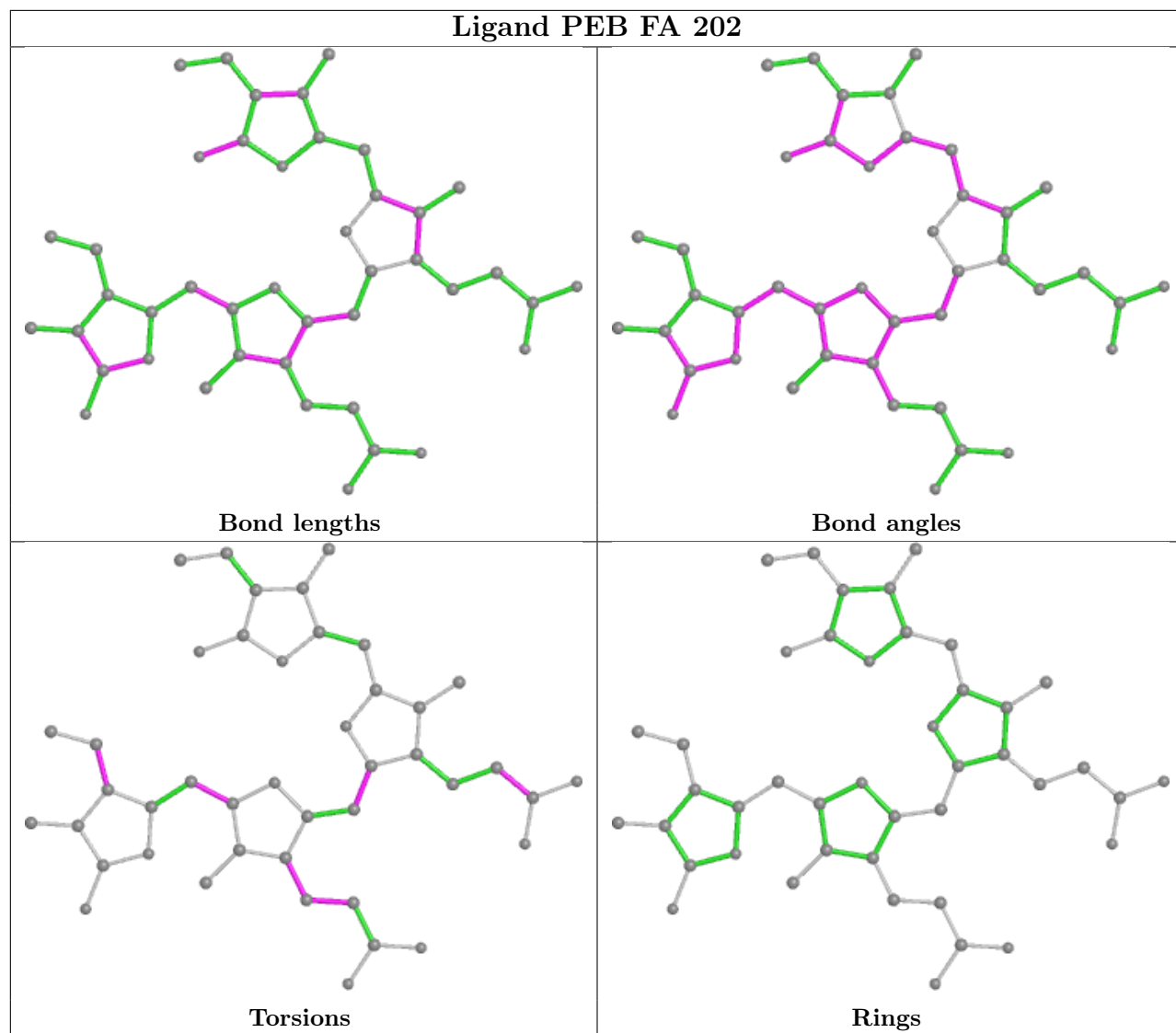
Bond angles



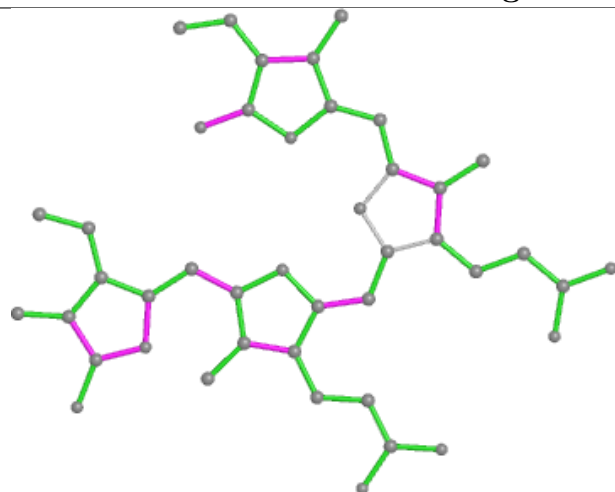
Torsions



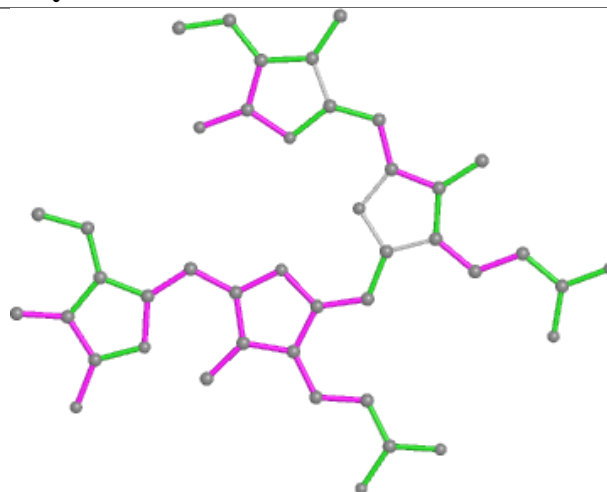
Rings



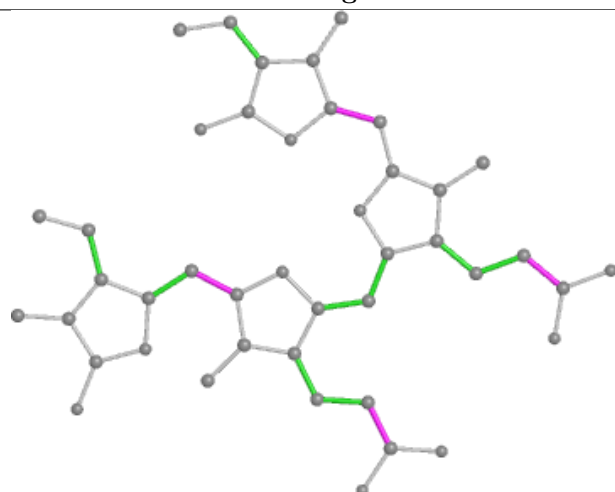
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Bond lengths



Bond angles

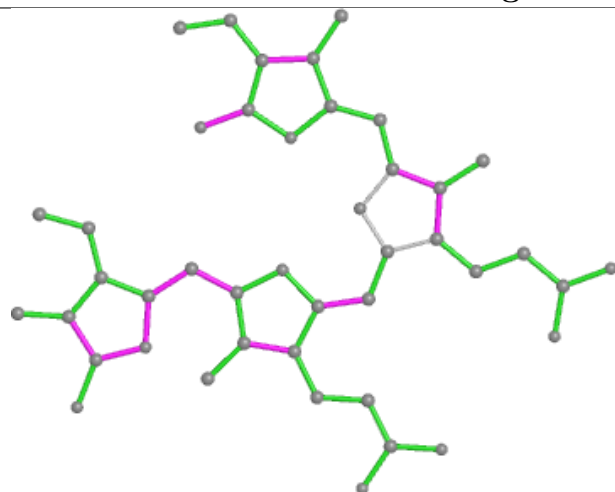


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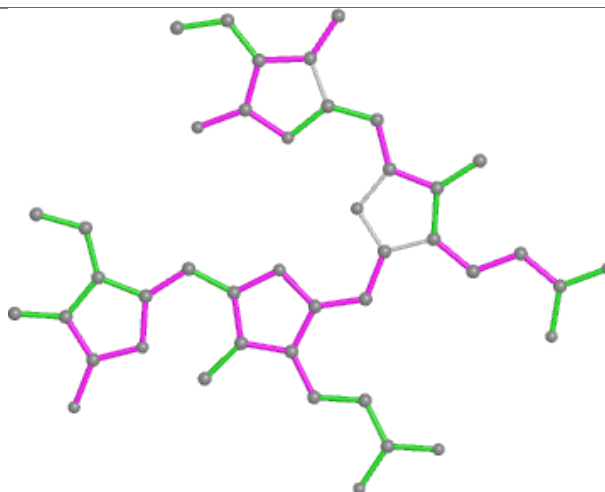


Rings

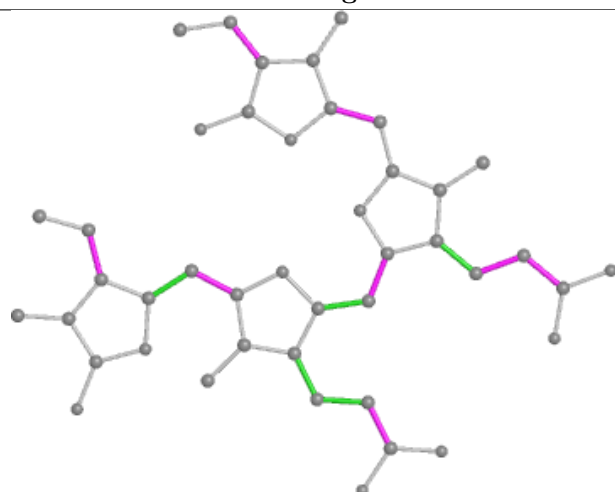
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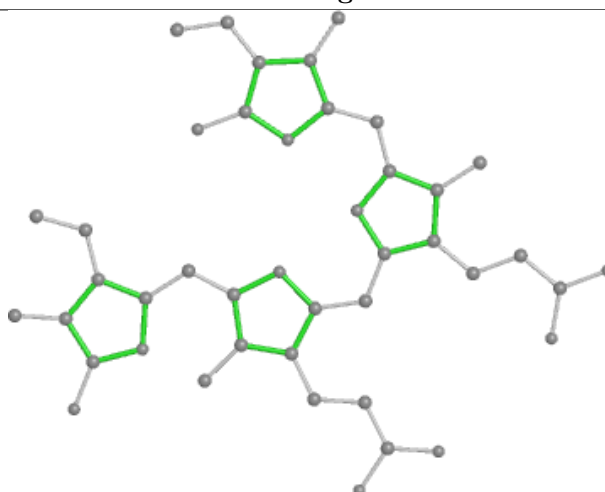
Bond lengths



Bond angles

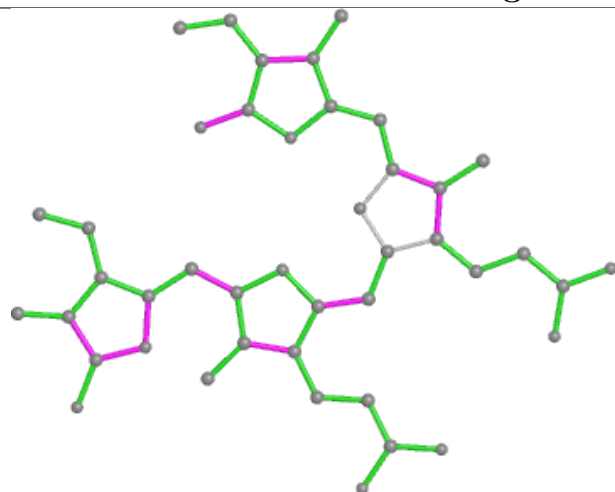


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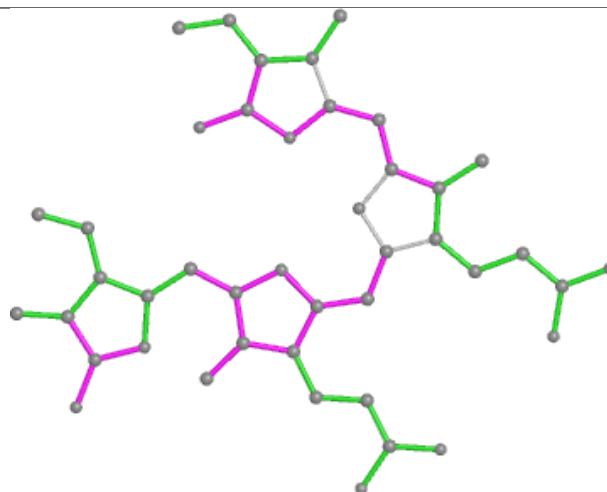


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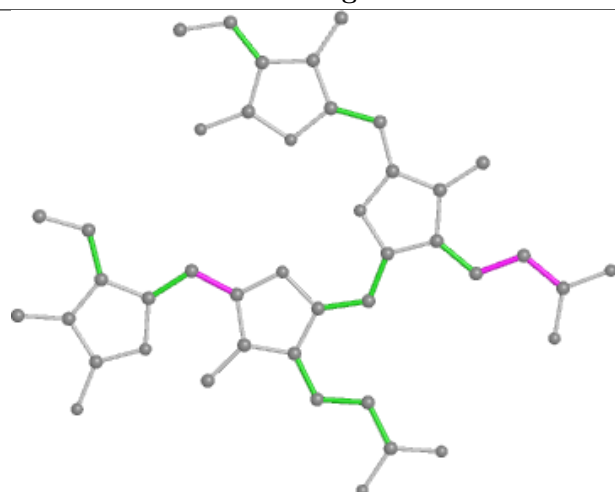
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Bond lengths



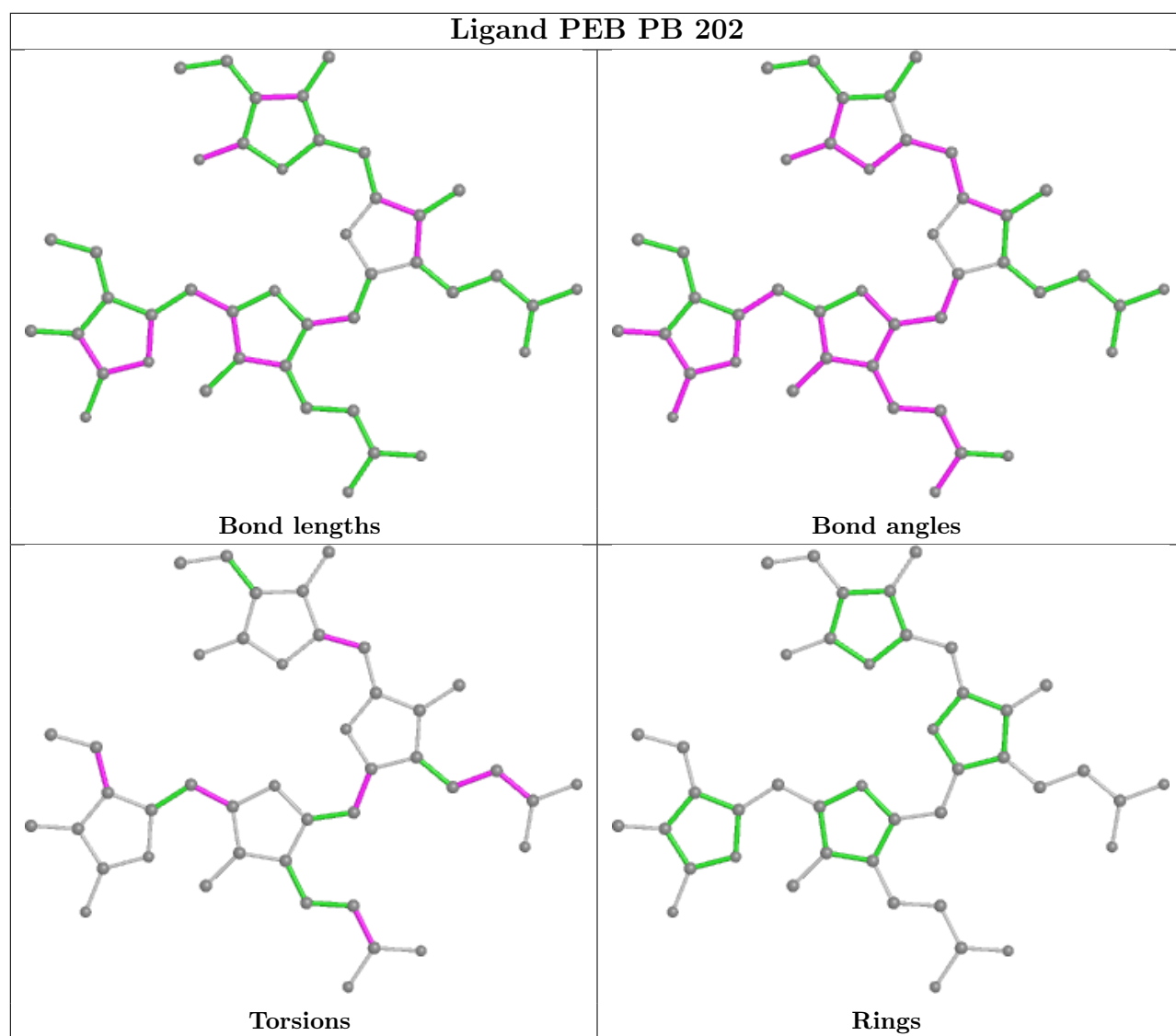
Bond angles



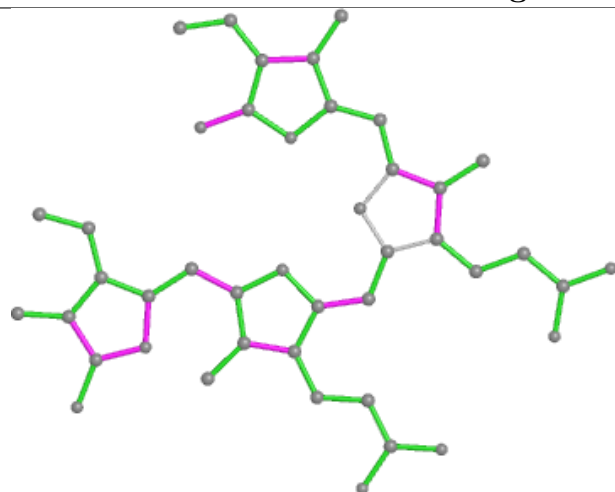
Torsions



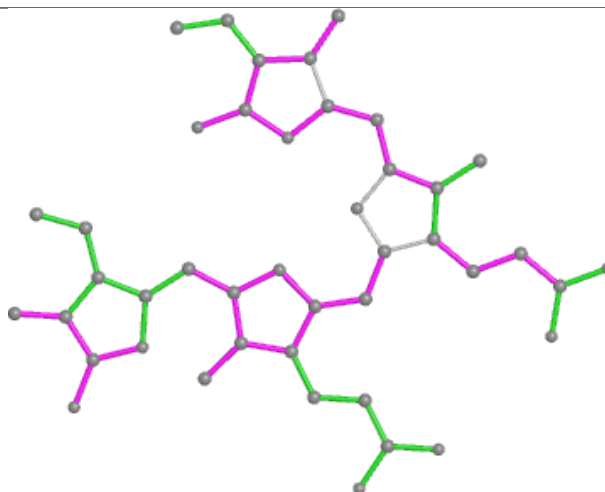
Rings



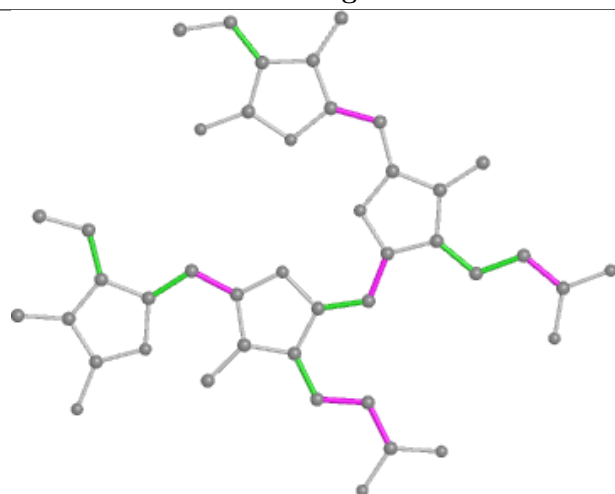
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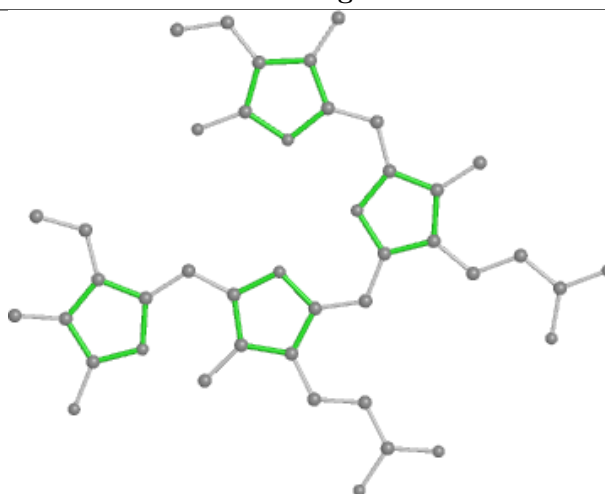
Bond lengths



Bond angles

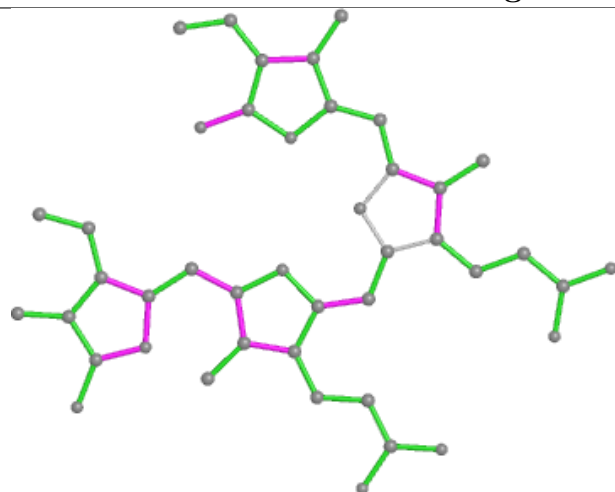


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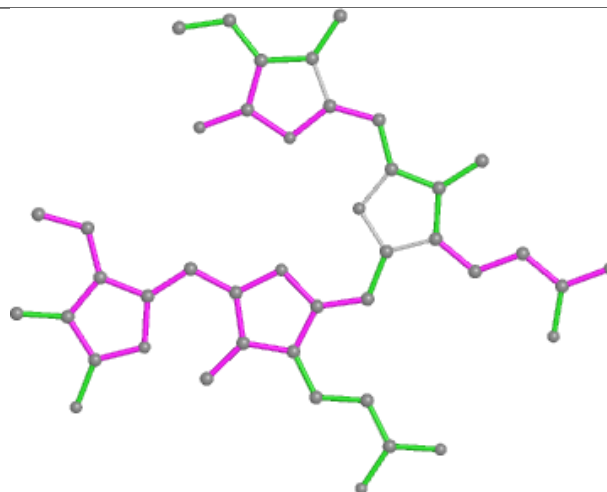


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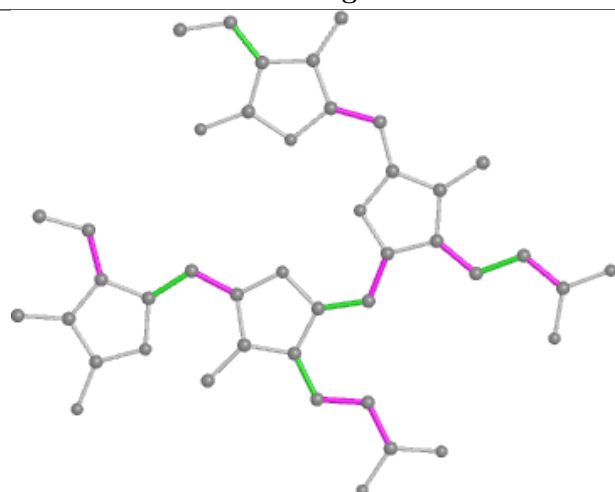
Ligand PEB BB 301



Bond lengths



Bond angles

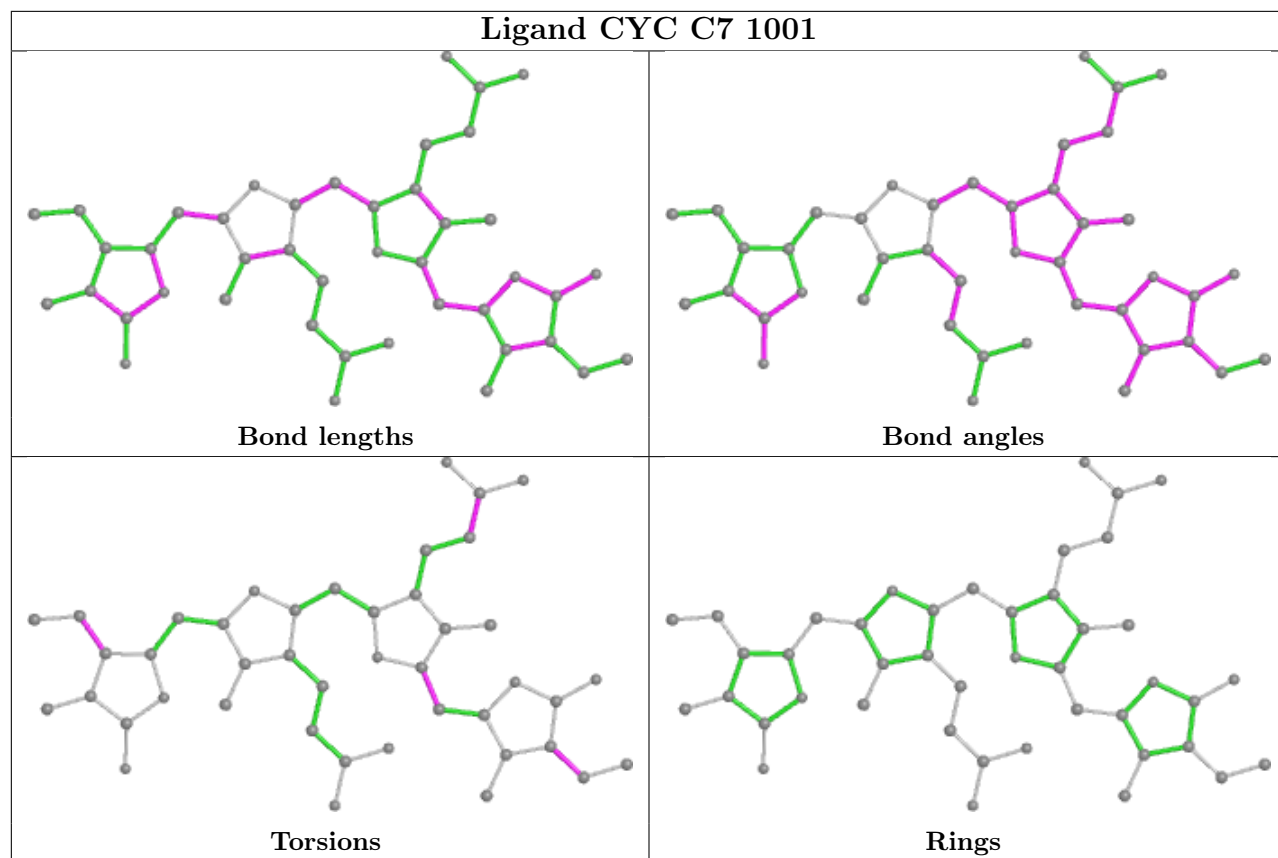


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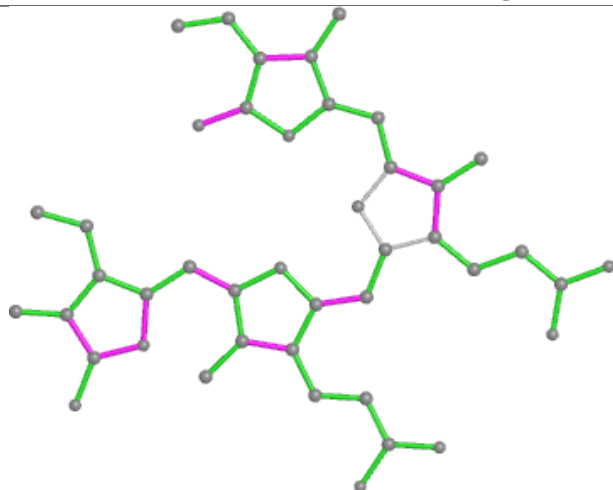


Rings

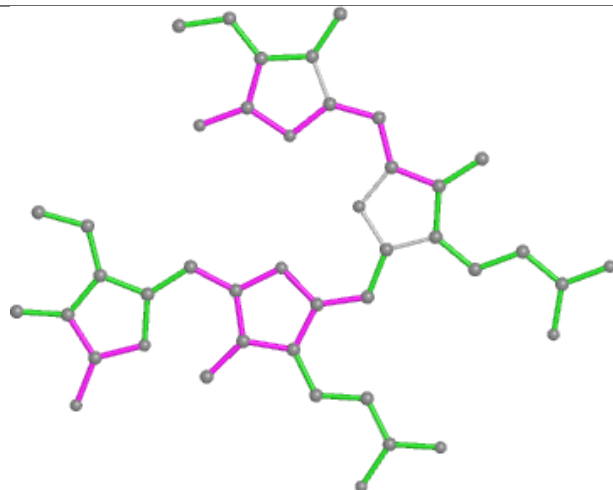
Ligand CYC C7 1001



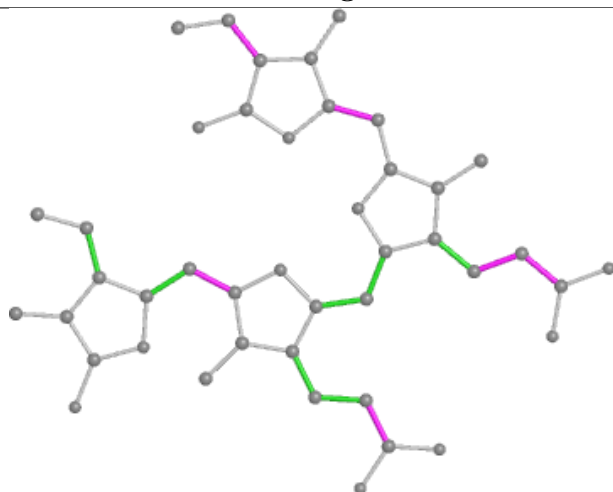
Ligand PEB MO 202



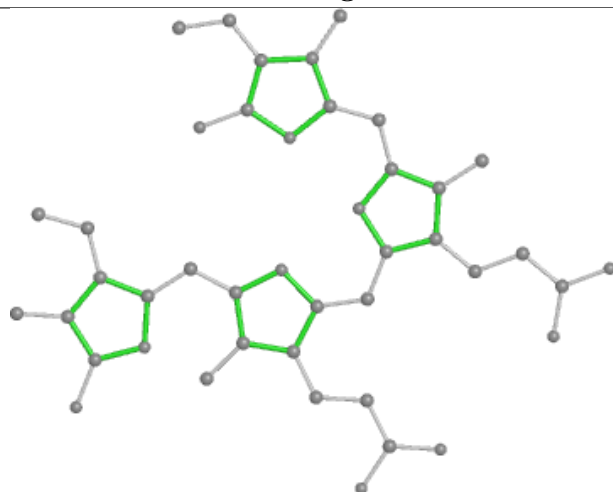
Bond lengths



Bond angles

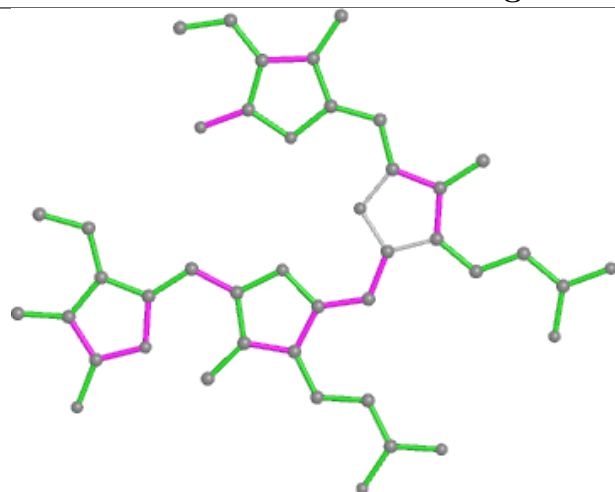


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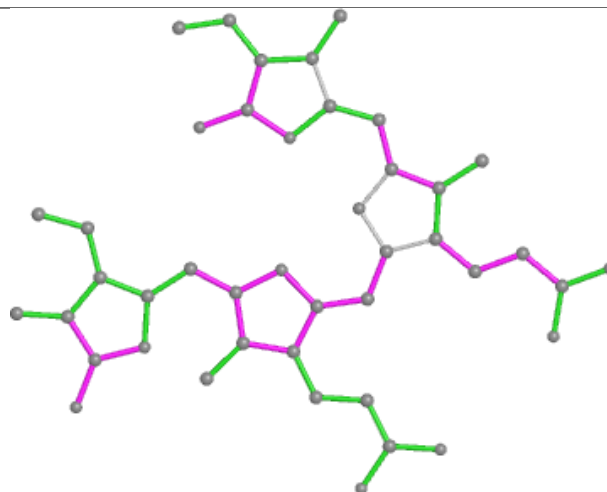


Rings

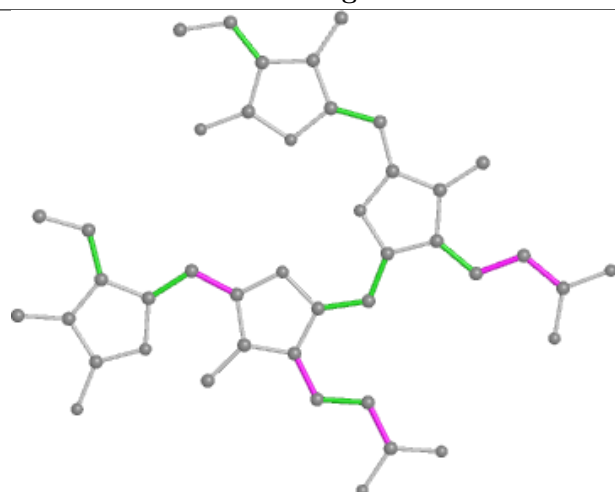
Ligand PEB TR 201



Bond lengths



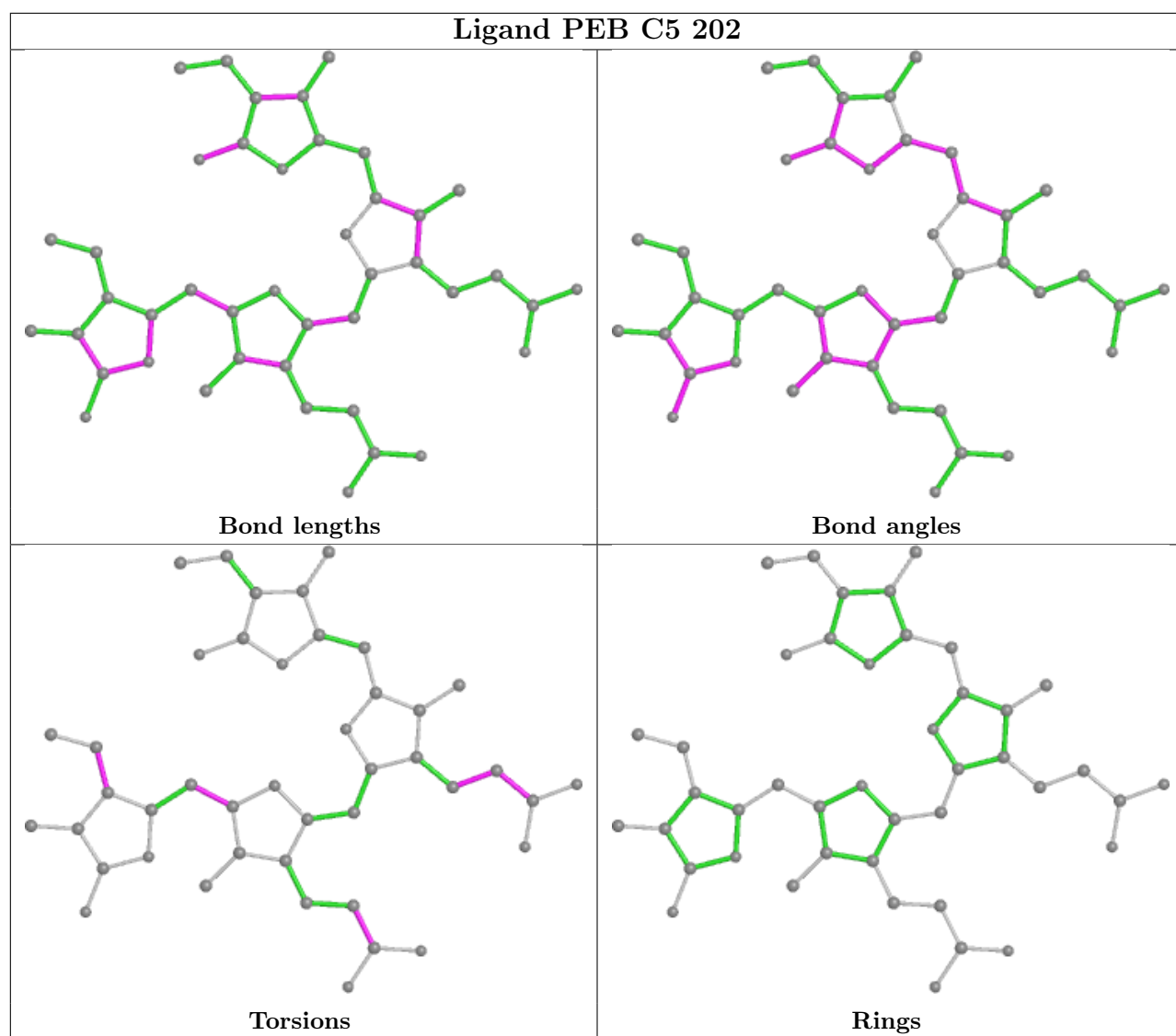
Bond angles

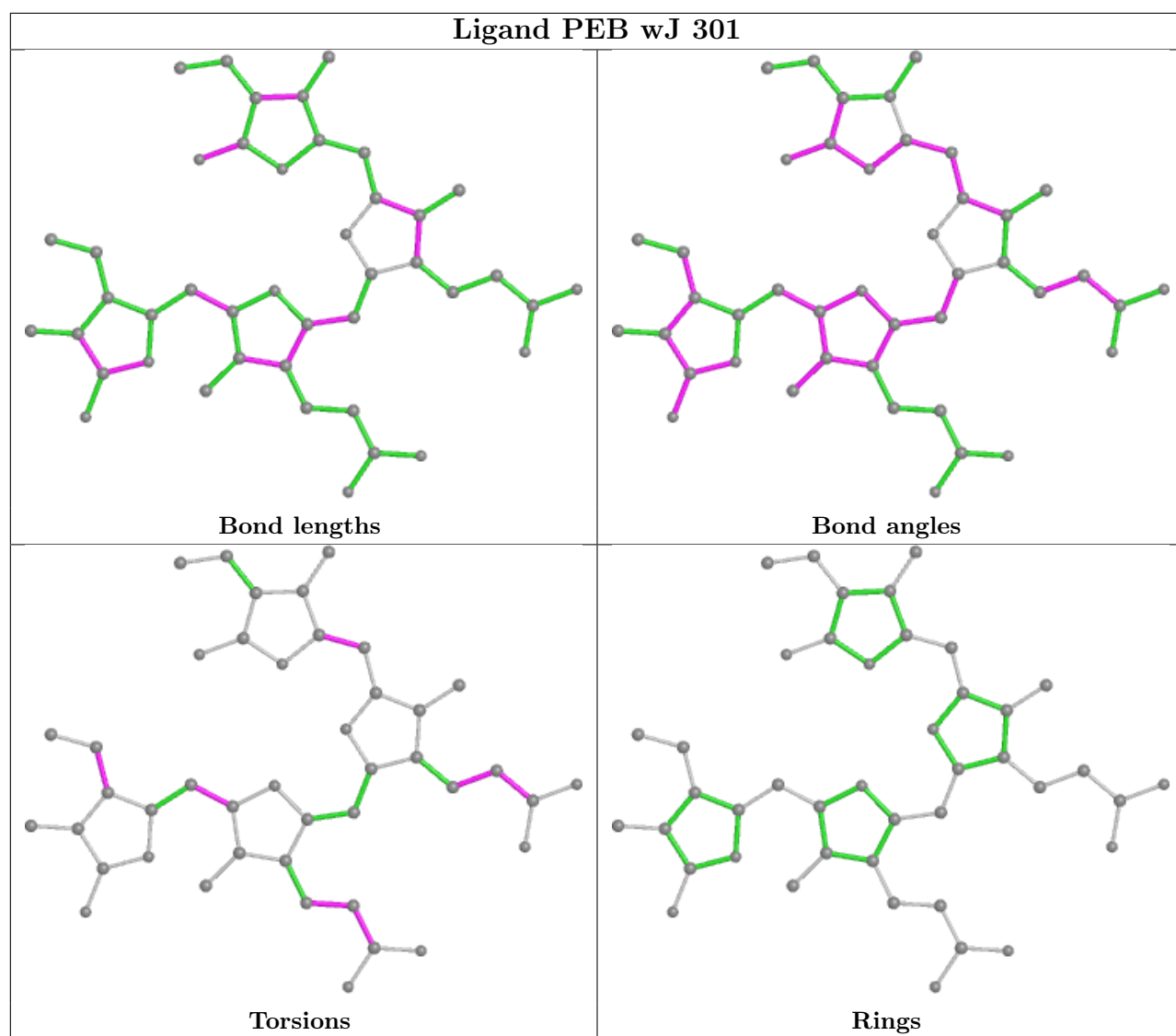


Torsions

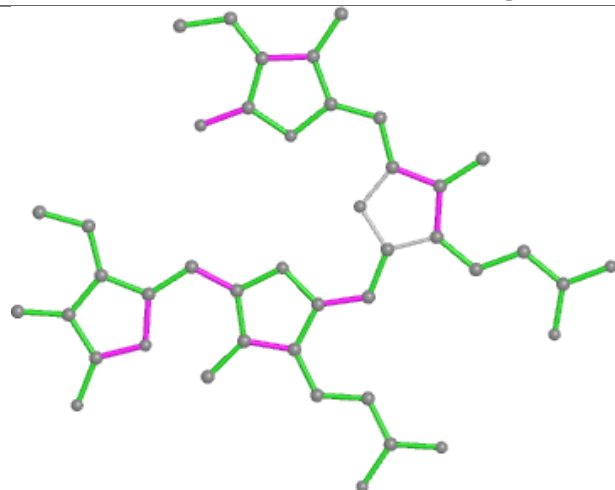


Rings

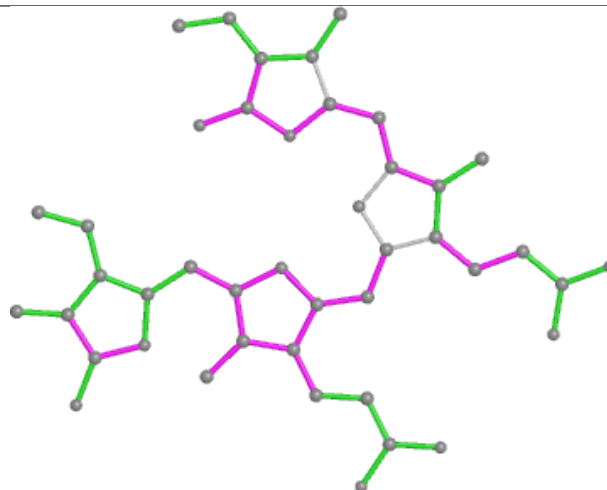




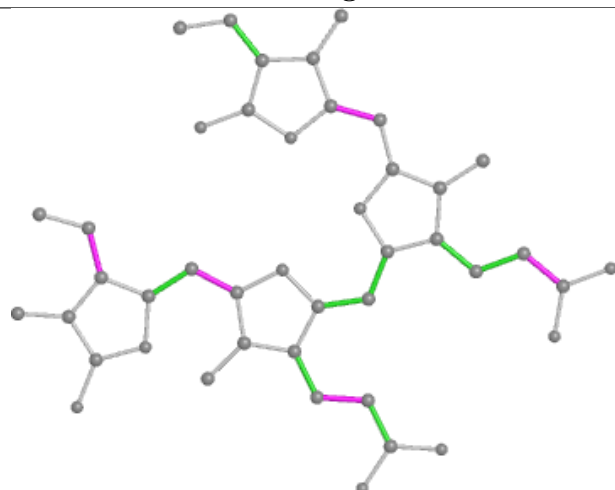
Ligand PEB WL 202



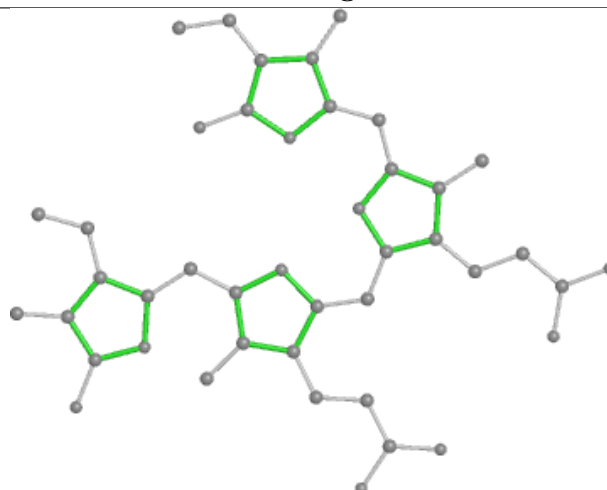
Bond lengths



Bond angles

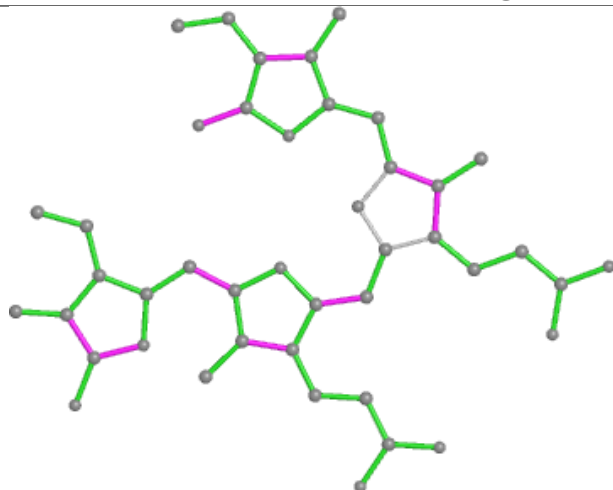


Torsions

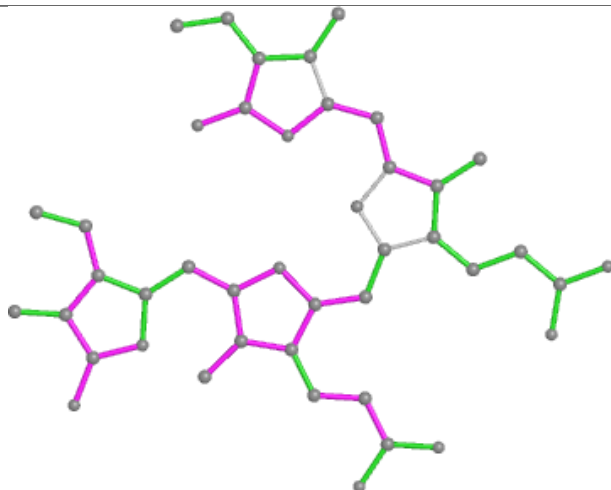


Rings

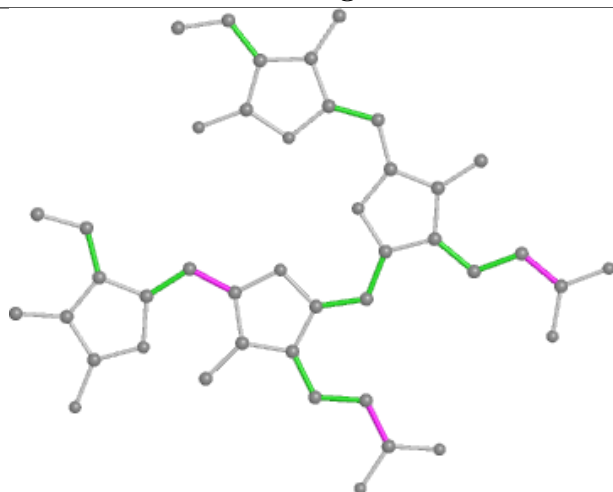
Ligand PEB MO 201



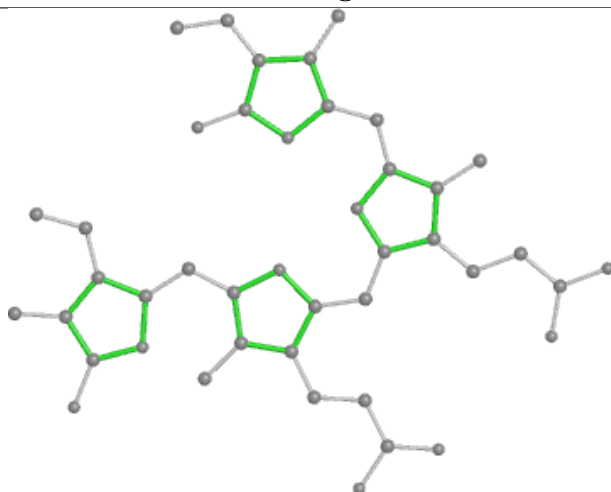
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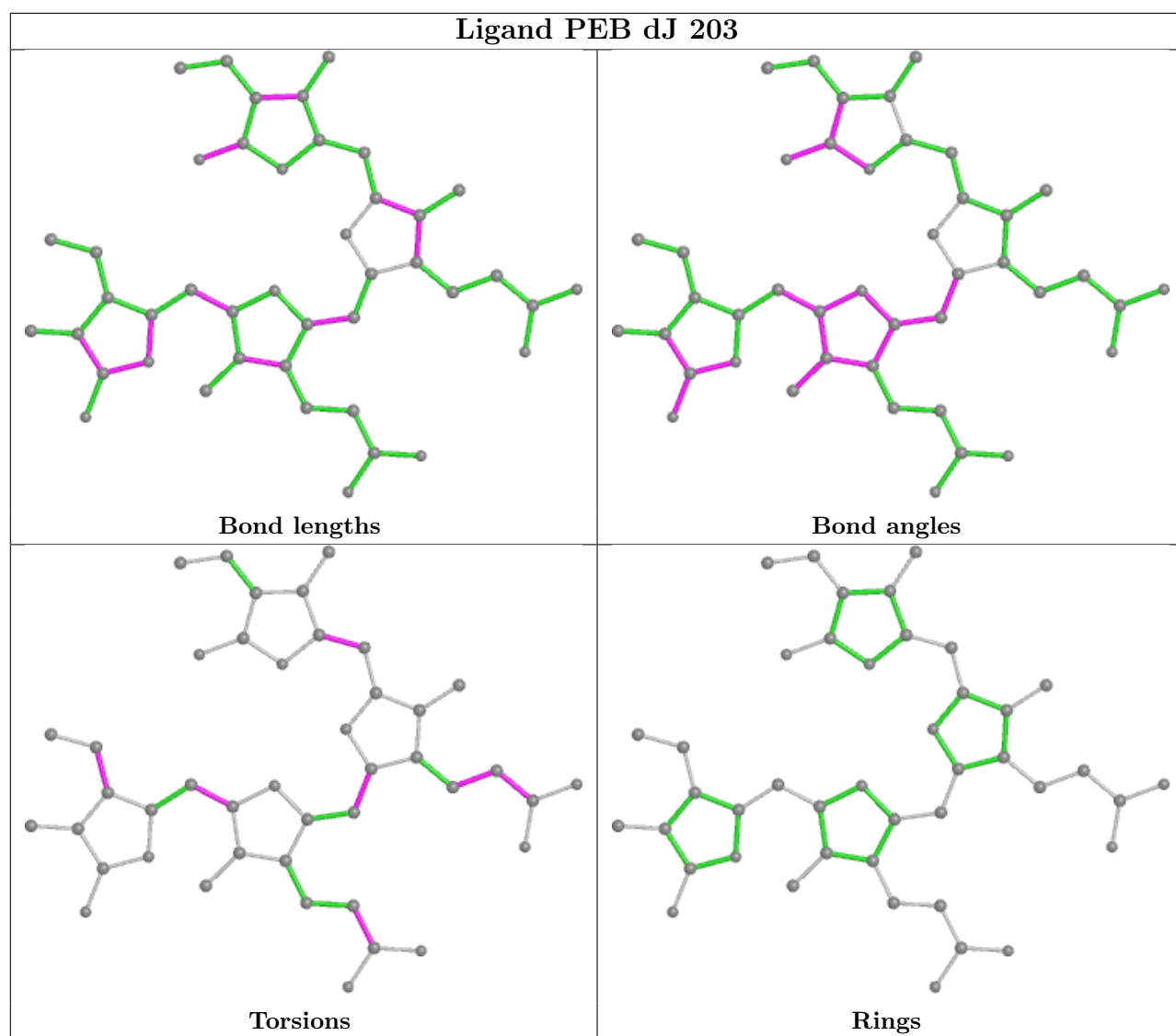
Bond angles



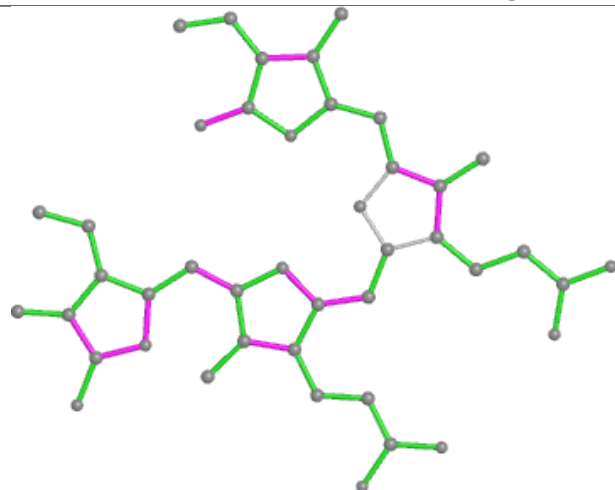
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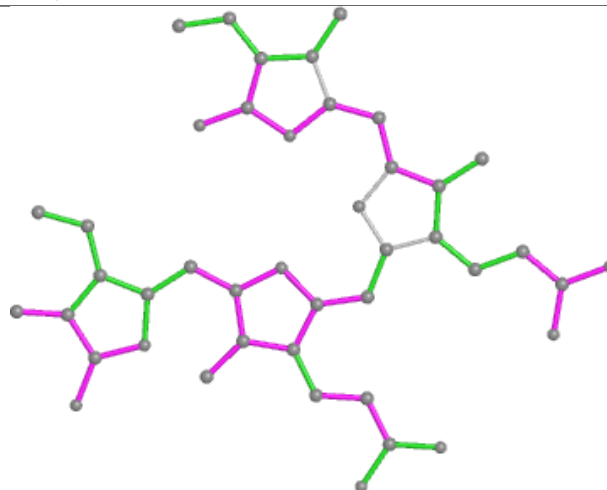
Rings



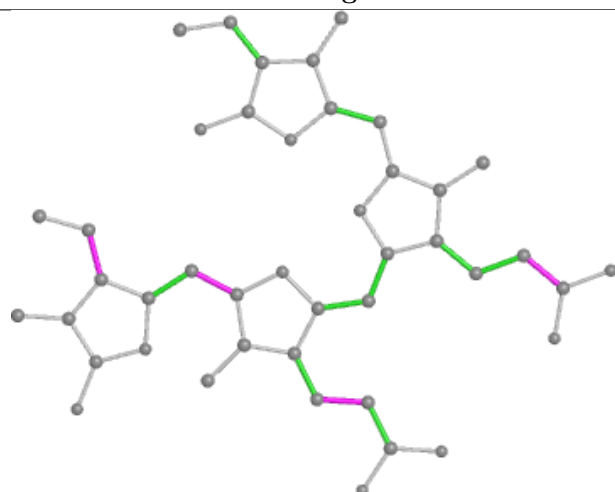
Ligand PEB QR 201



Bond lengths



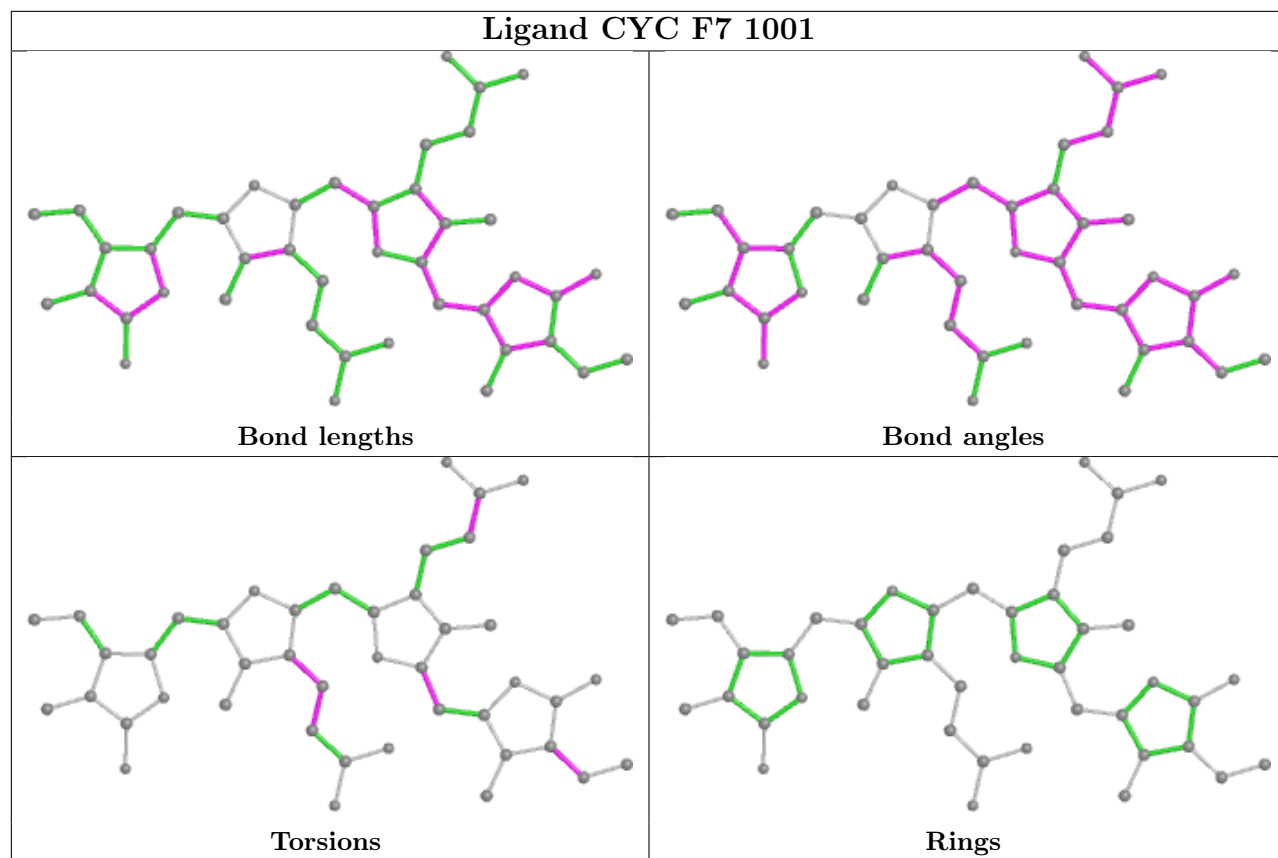
Bond angles



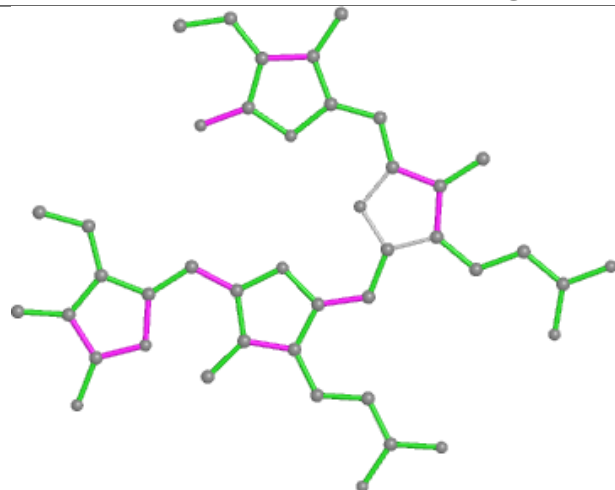
Torsions



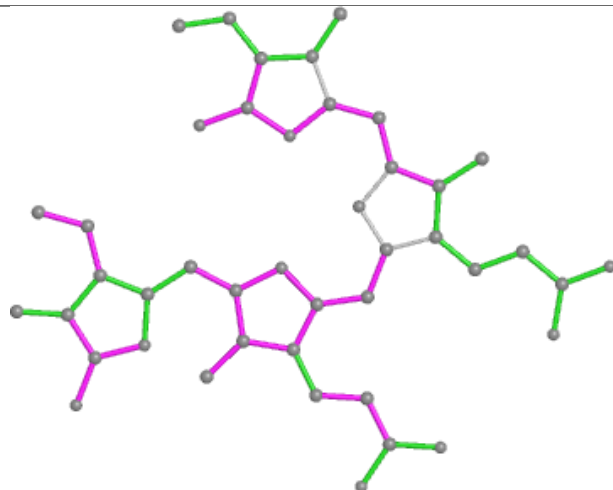
Rings



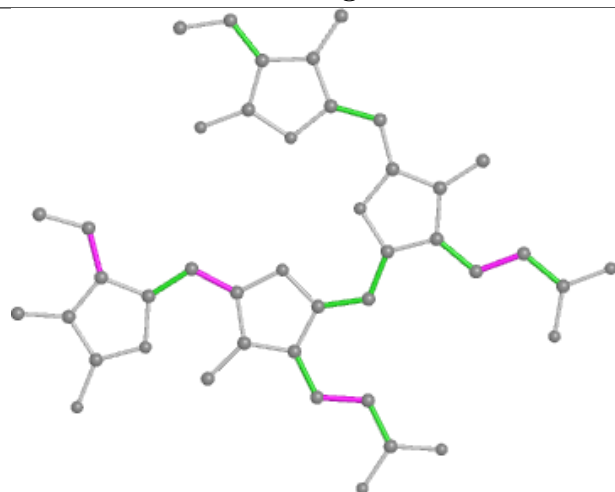
Ligand PEB FG 202



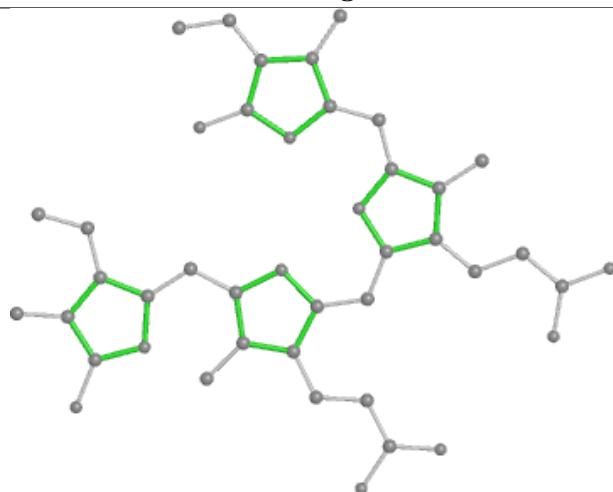
Bond lengths



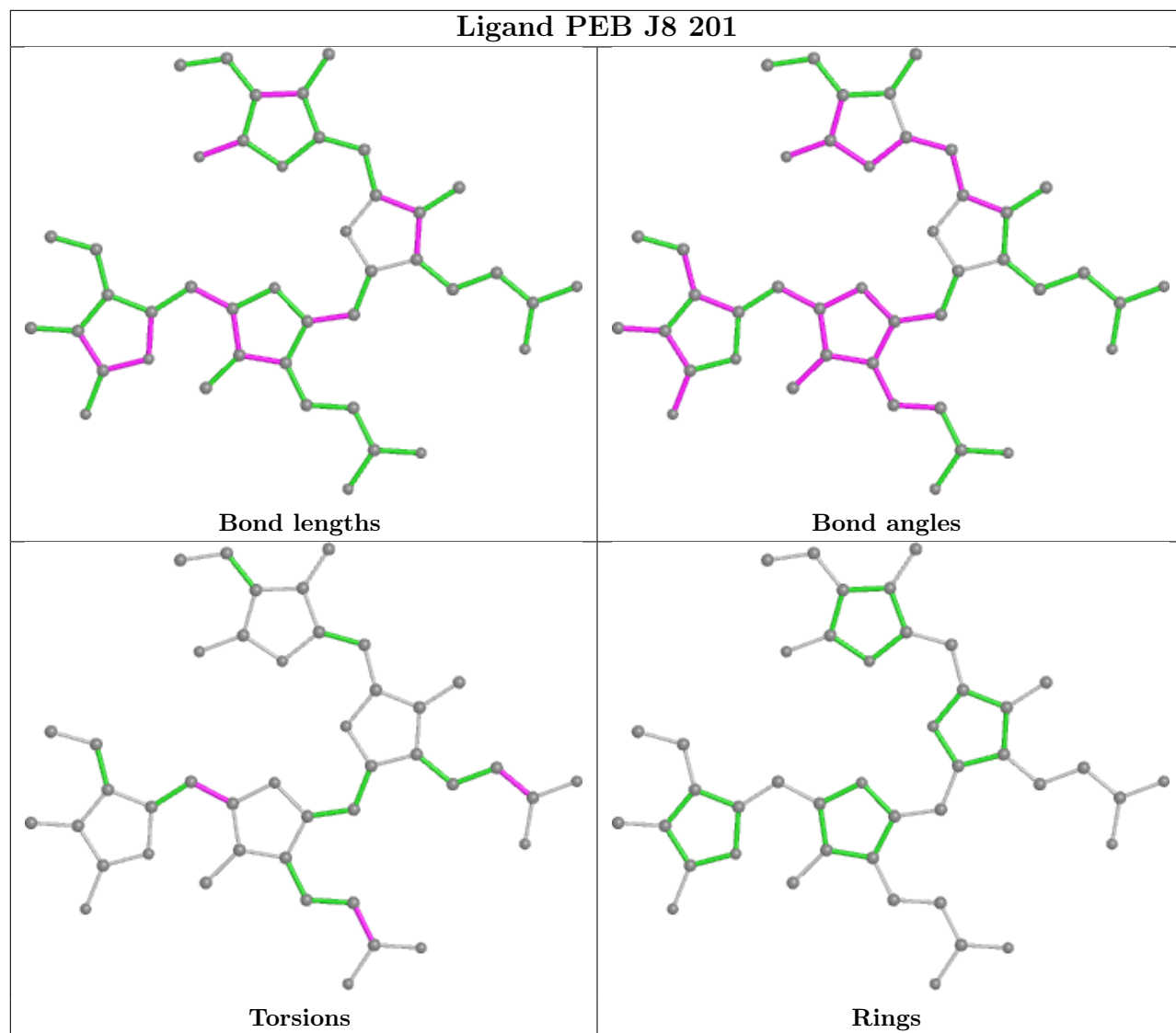
Bond angles

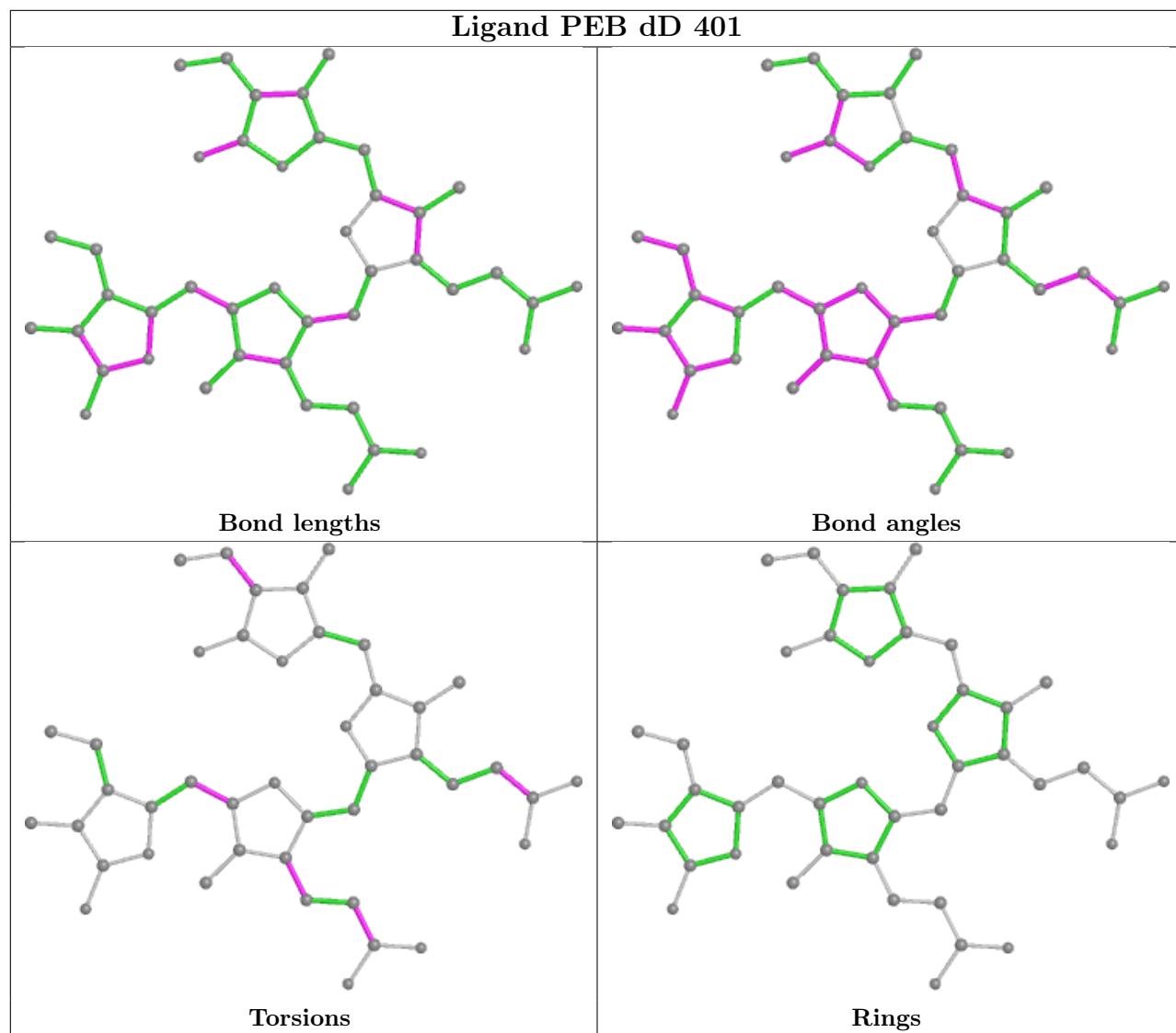


Torsions

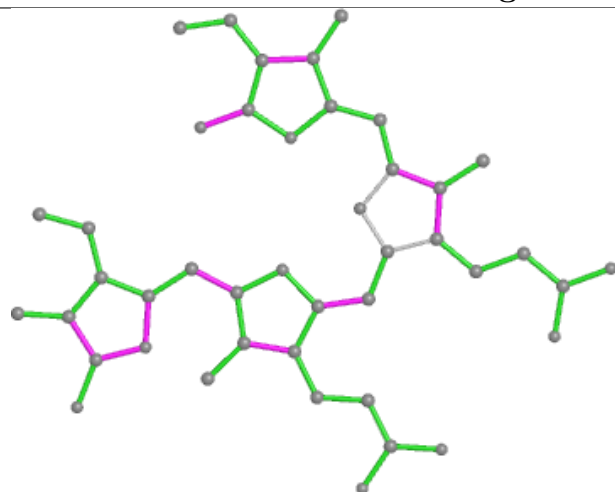


Rings

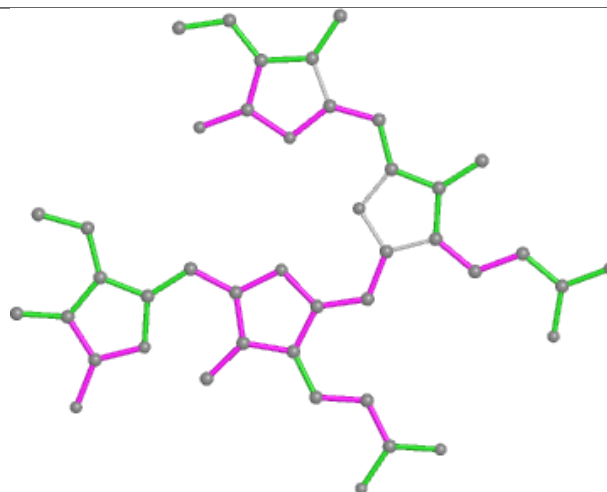




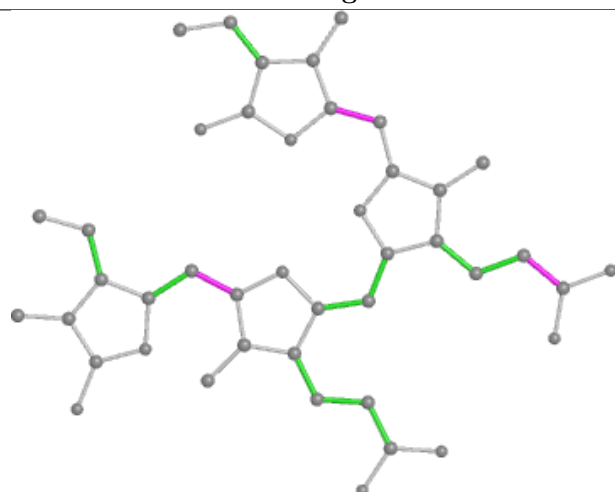
Ligand PEB XM 201



Bond lengths



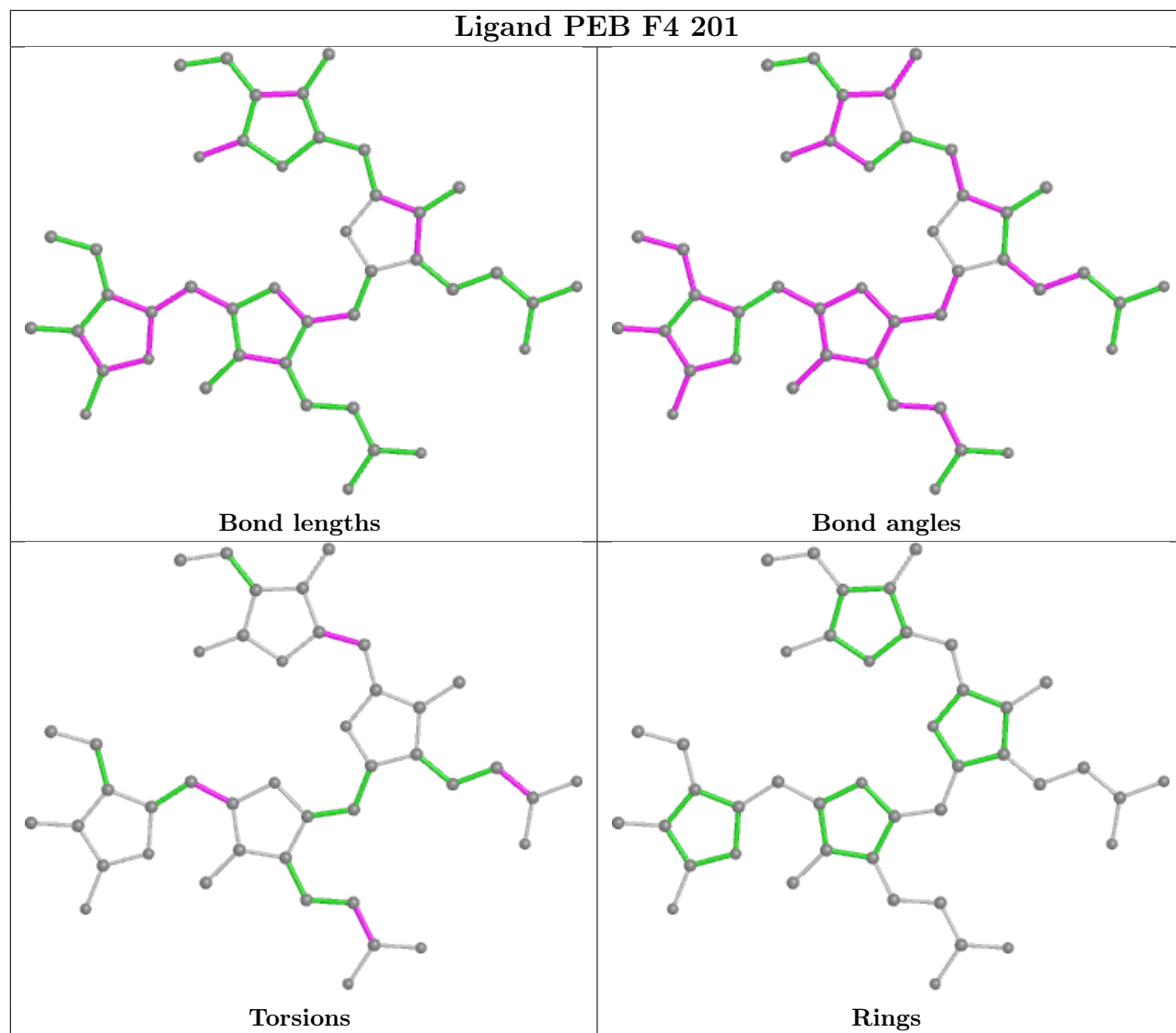
Bond angles



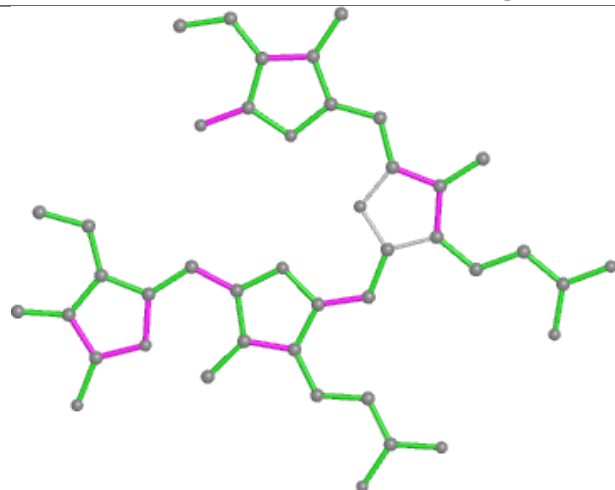
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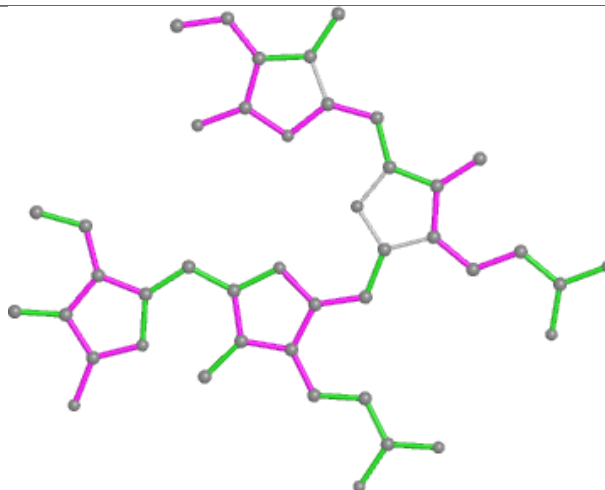
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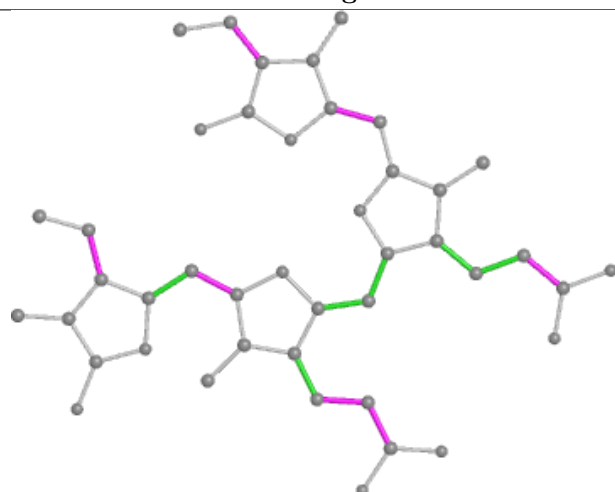
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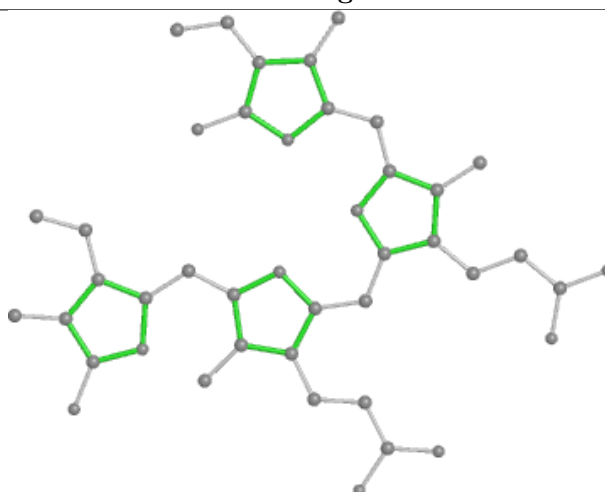
Bond lengths



Bond angles

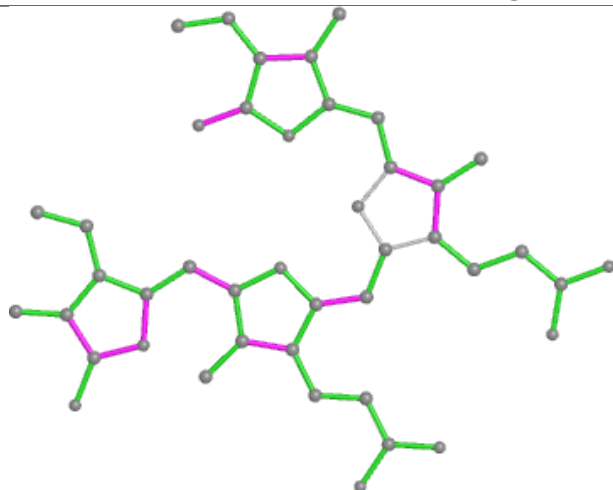


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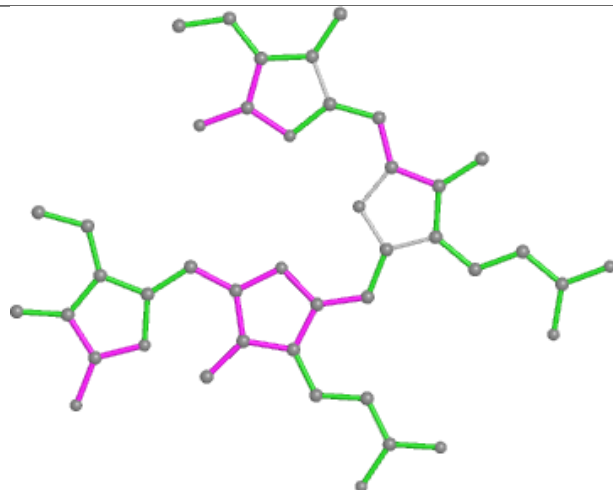


Rings

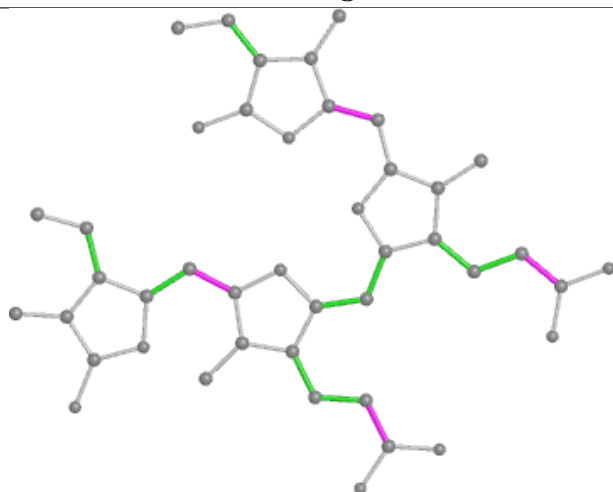
Ligand PEB O7 202



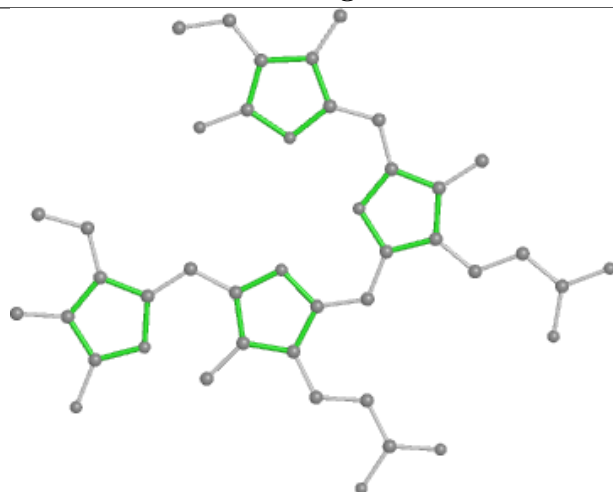
Bond lengths



Bond angles

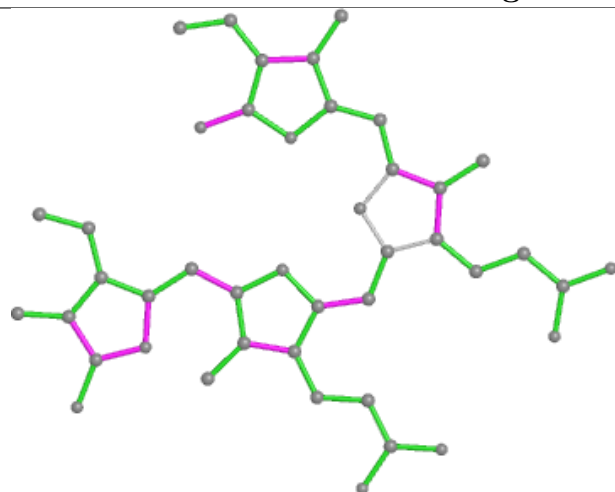


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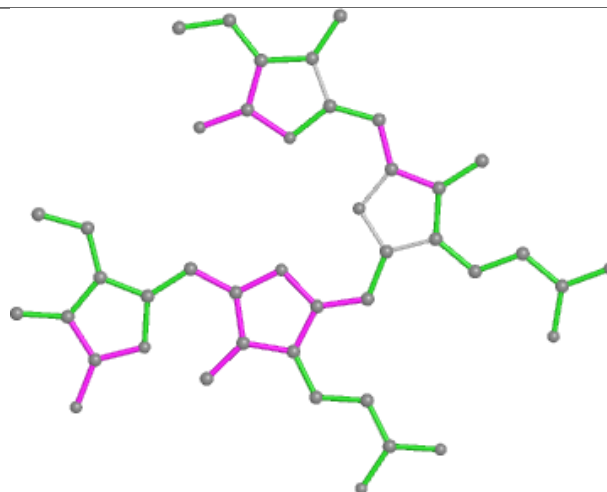


Rings

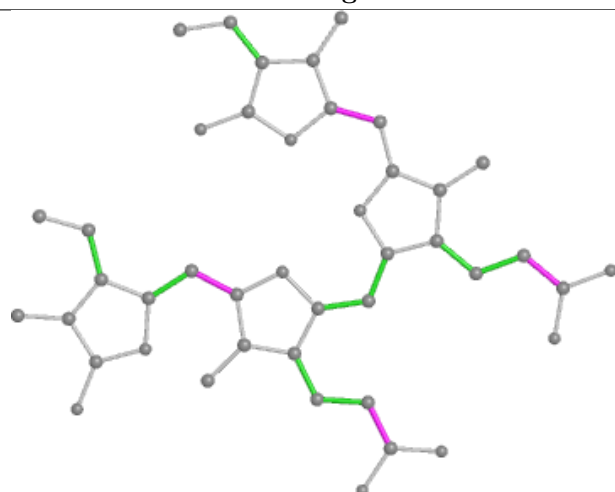
Ligand PEB W9 202



Bond lengths



Bond angles

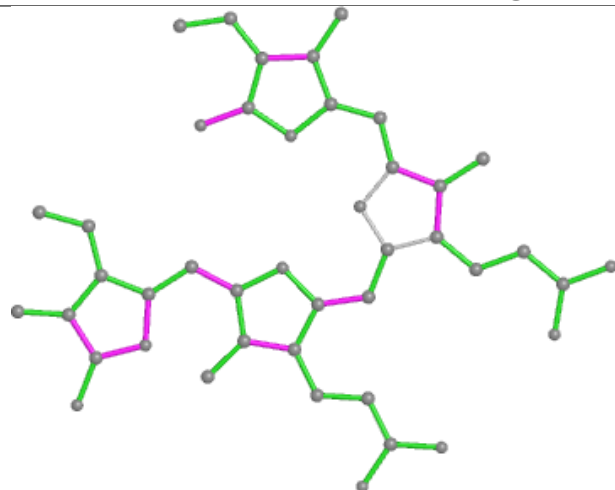


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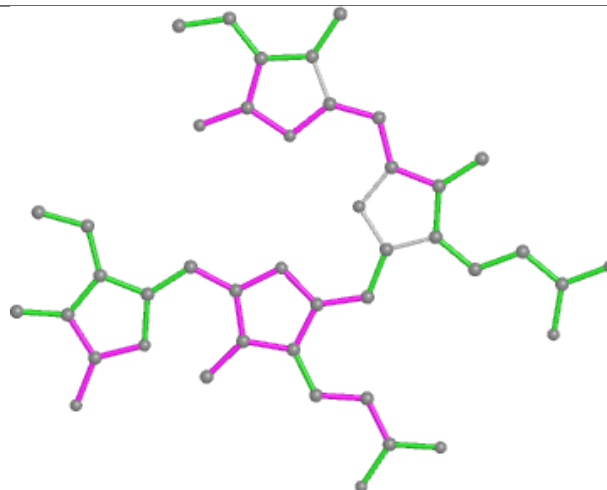


Rings

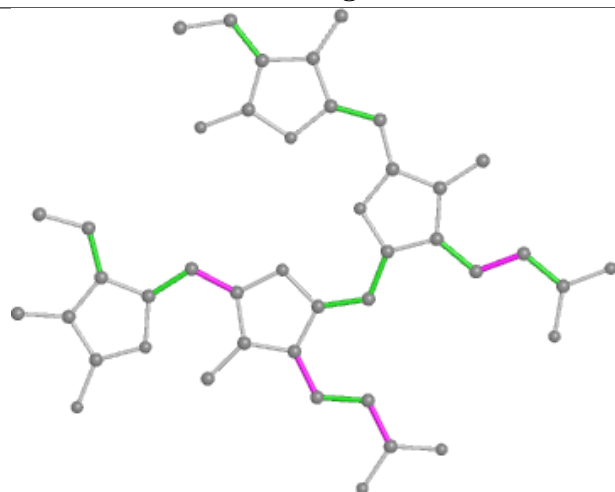
Ligand PEB V1 201



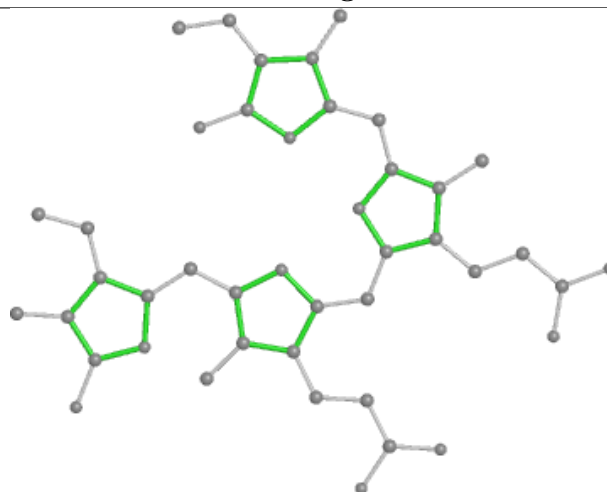
Bond lengths



Bond angles

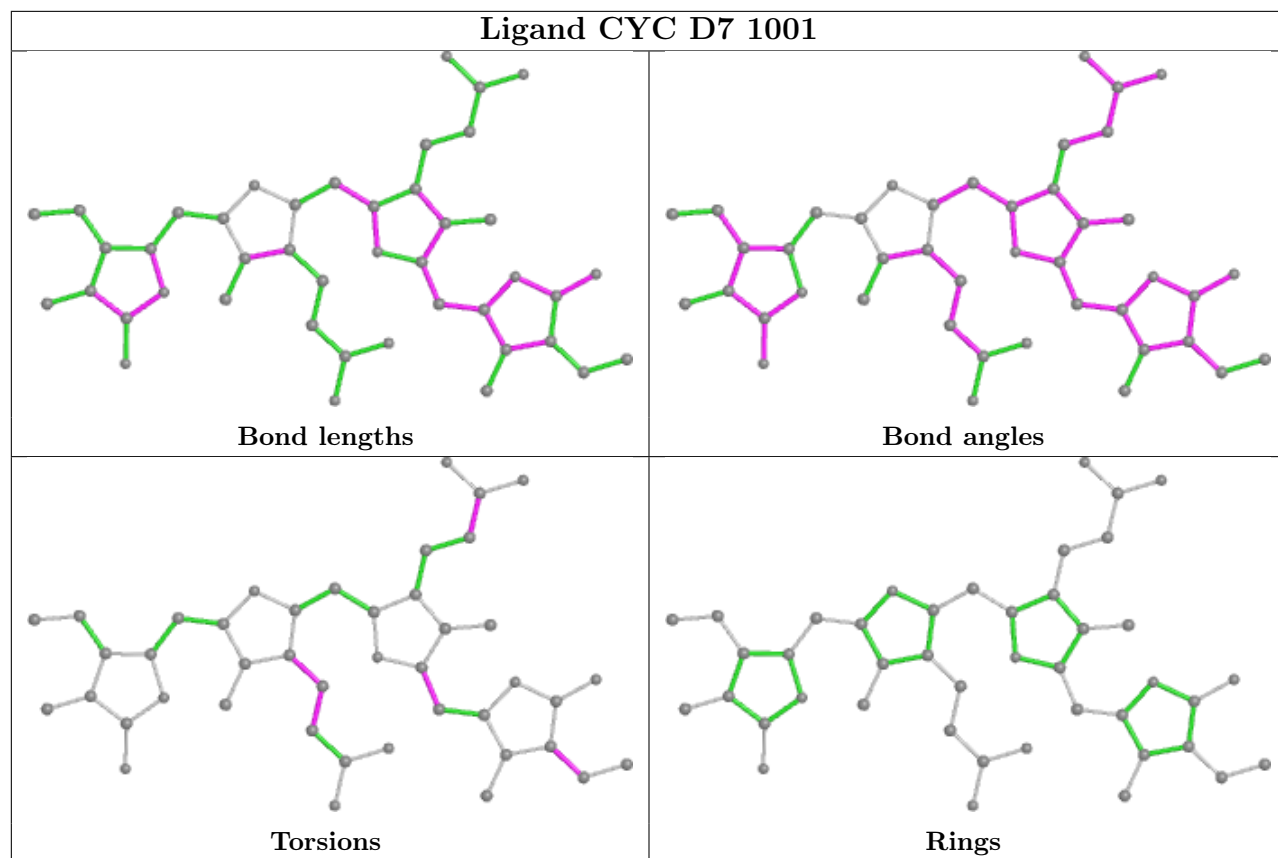


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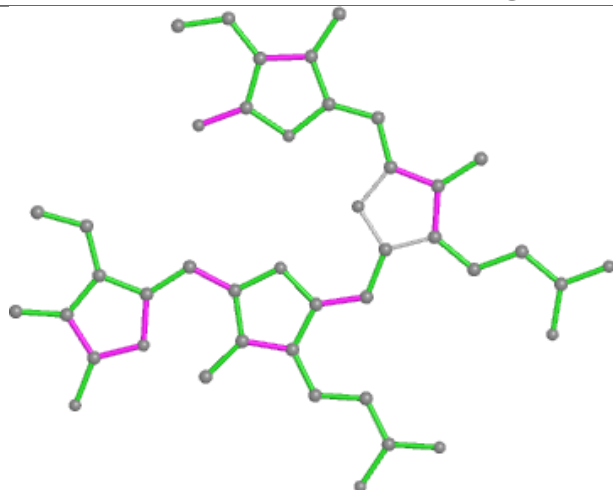


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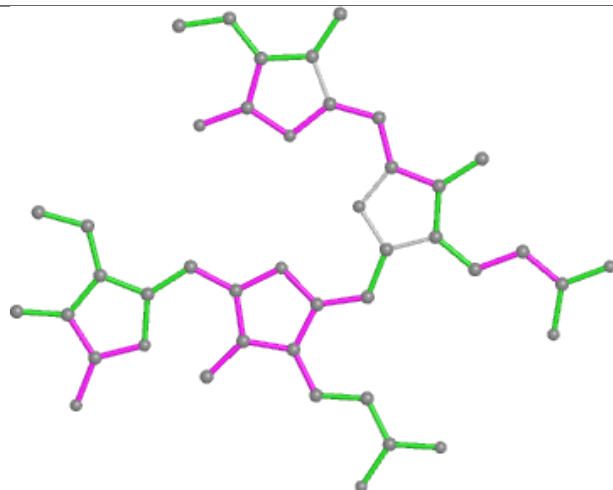
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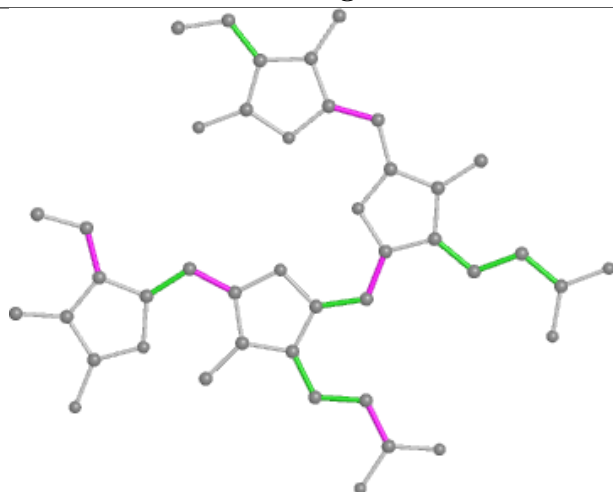
Ligand PEB FO 203



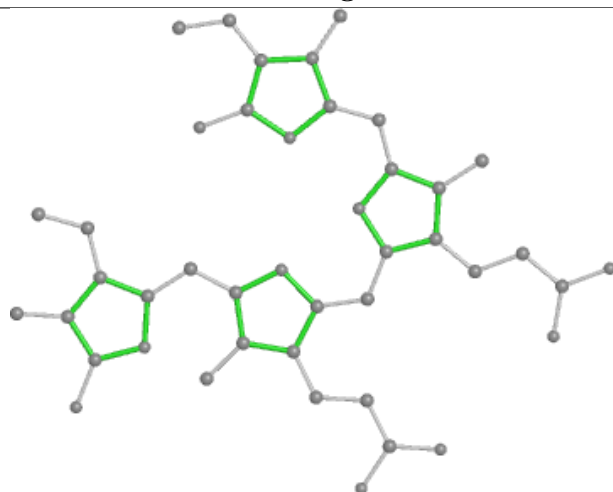
Bond lengths



Bond angles

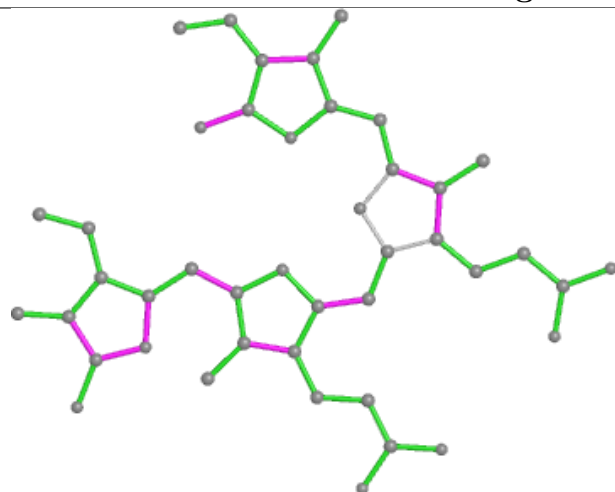


Torsions

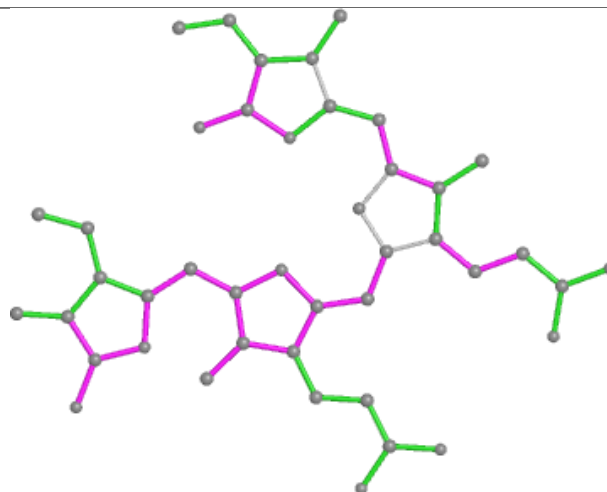


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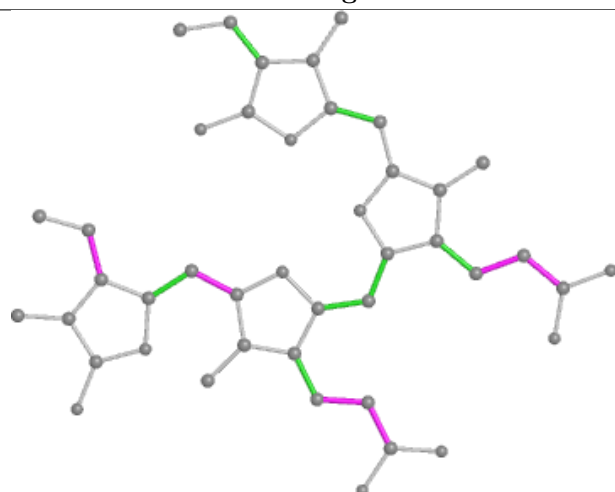
Ligand PEB 11 202



Bond lengths



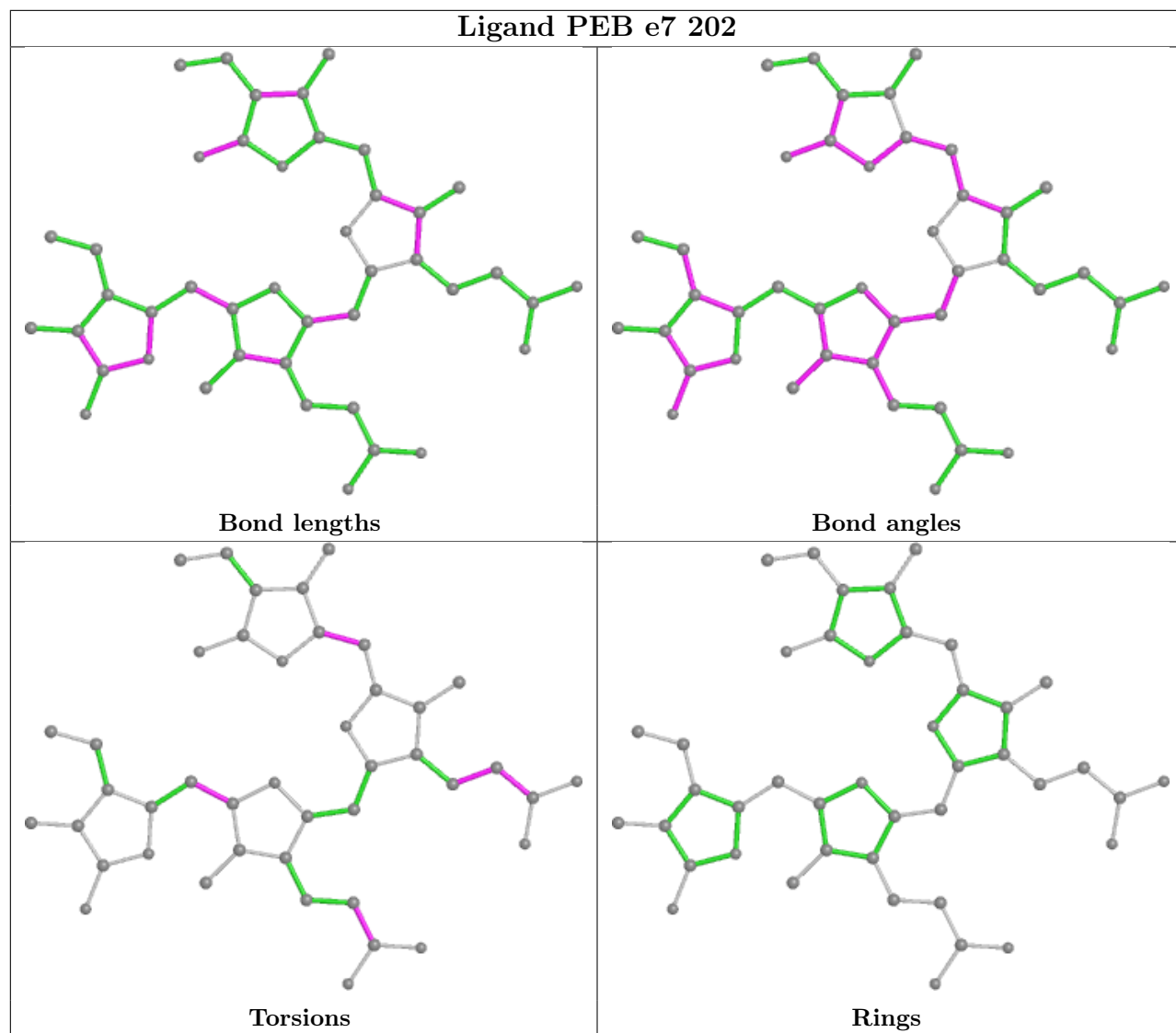
Bond angles



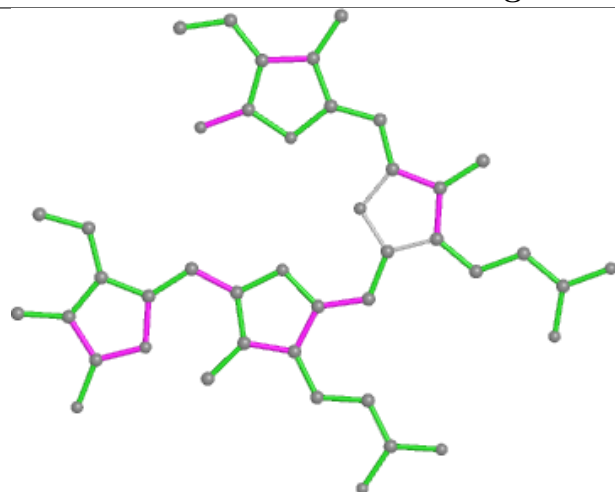
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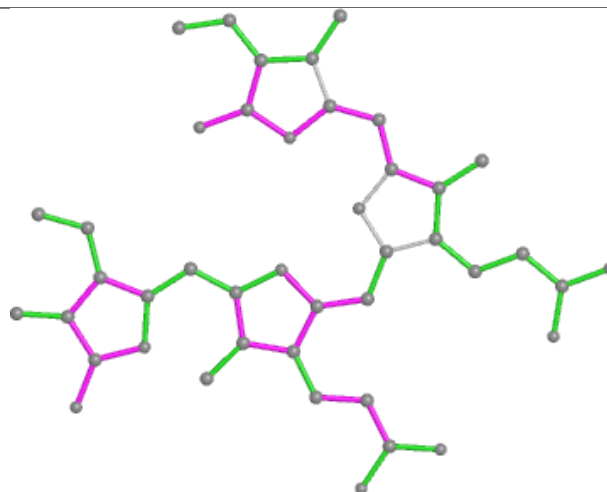
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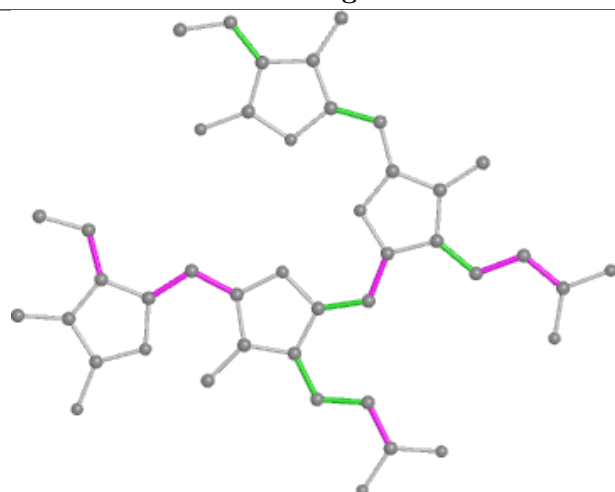
Ligand PEB EG 202



Bond lengths



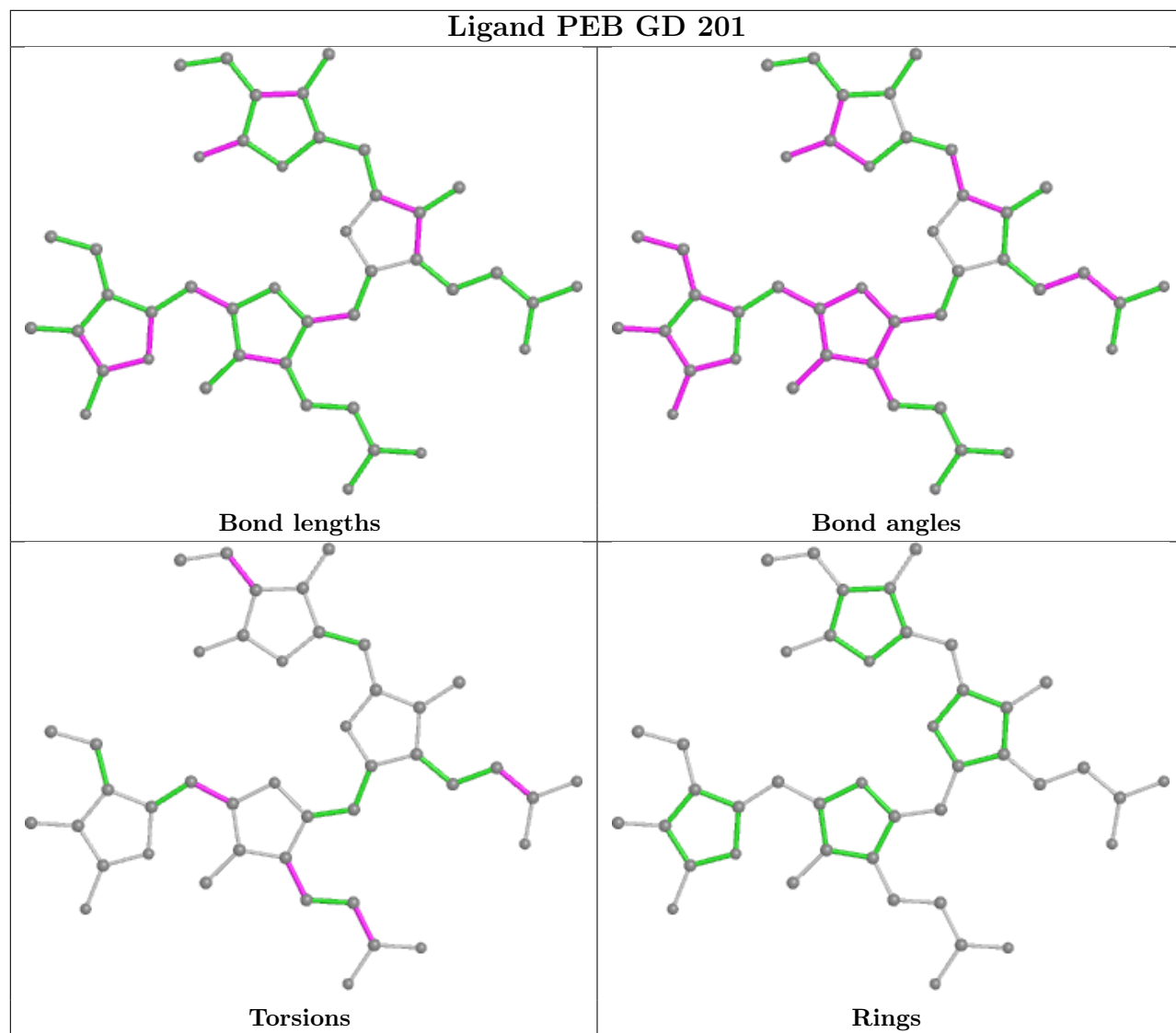
Bond angles



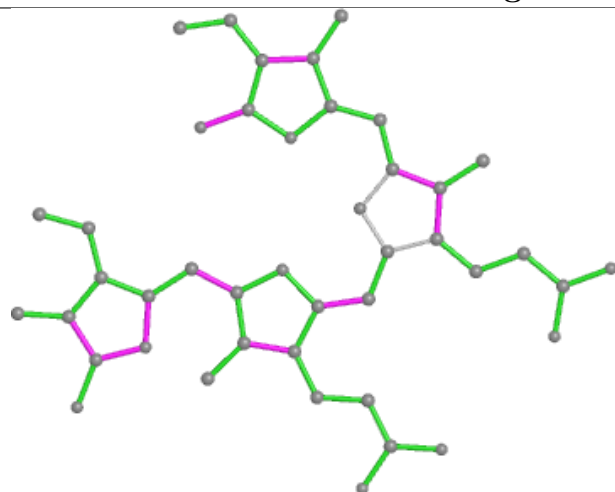
Torsions



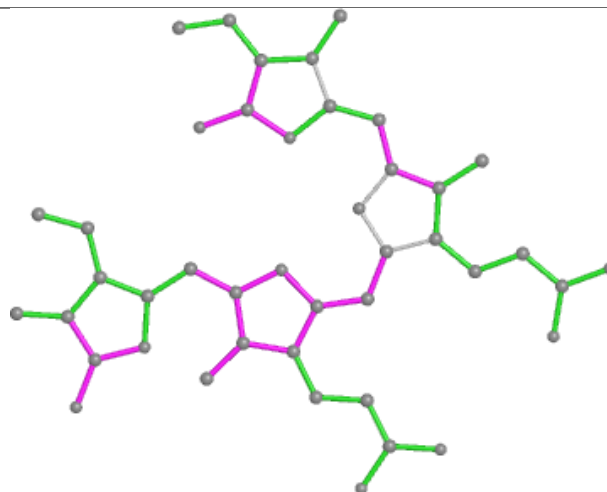
Rings



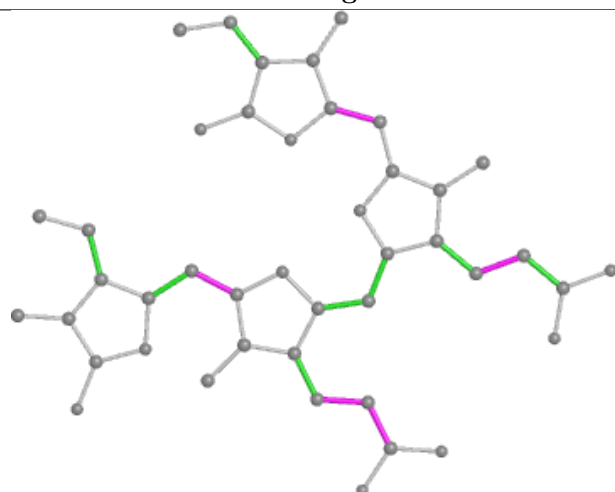
Ligand PEB EG 201



Bond lengths



Bond angles

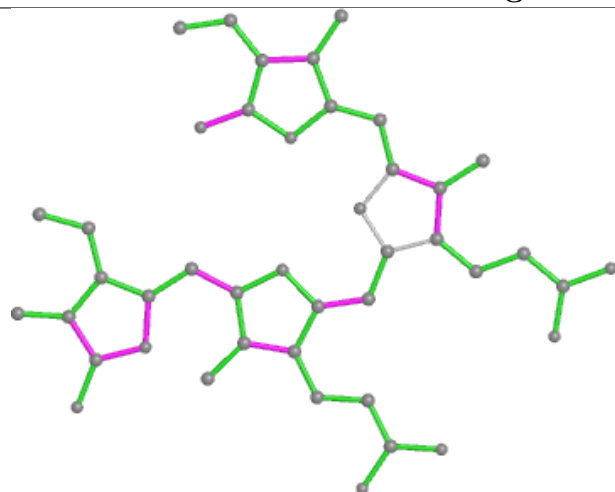


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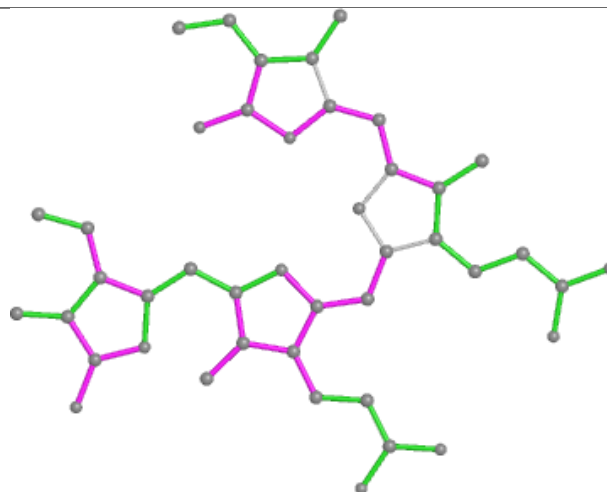


Rings

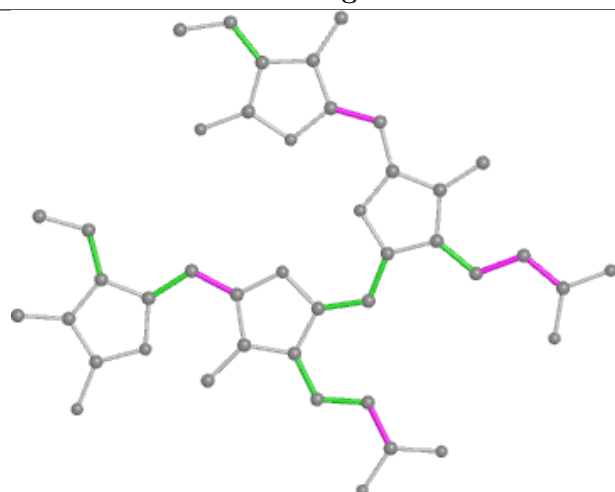
Ligand PEB m9 202



Bond lengths



Bond angles

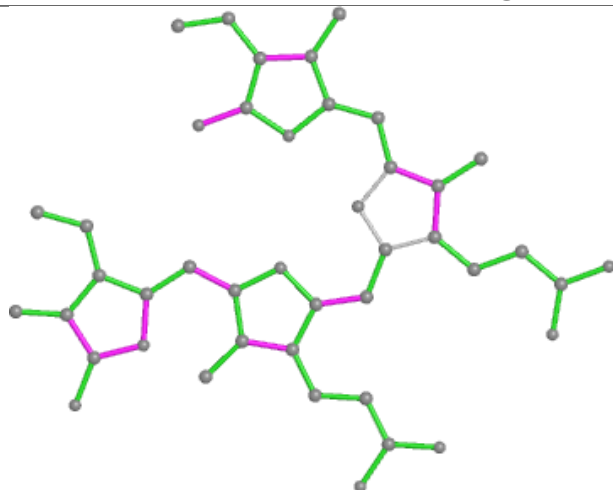


Torsions

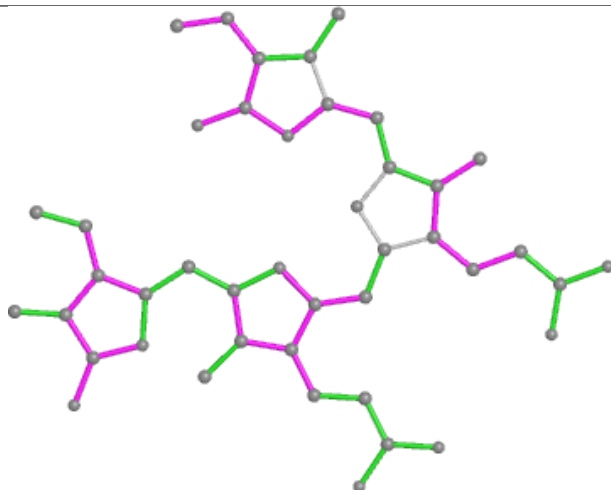


Rings

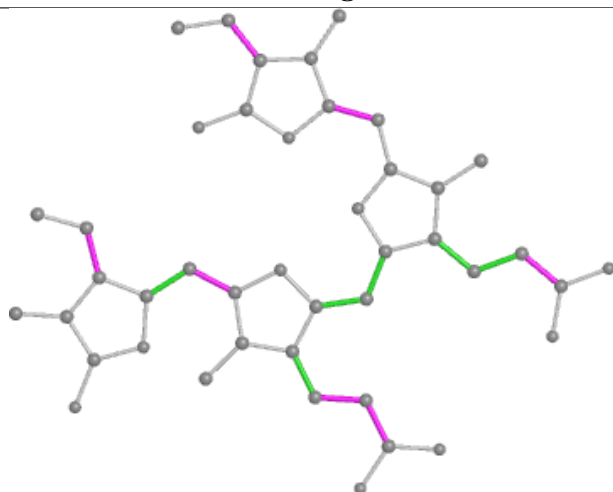
Ligand PEB HI 1002



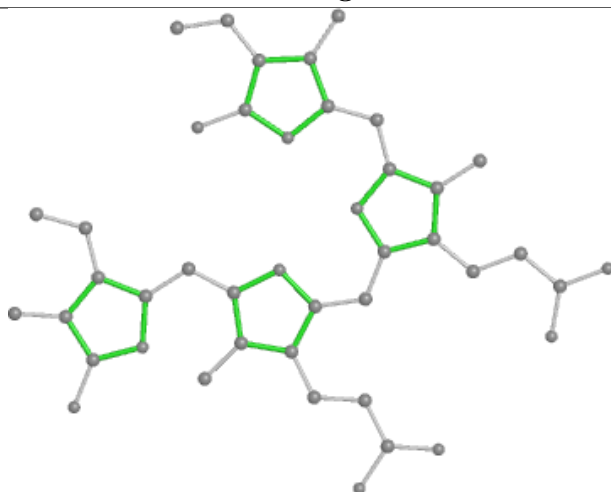
Bond lengths



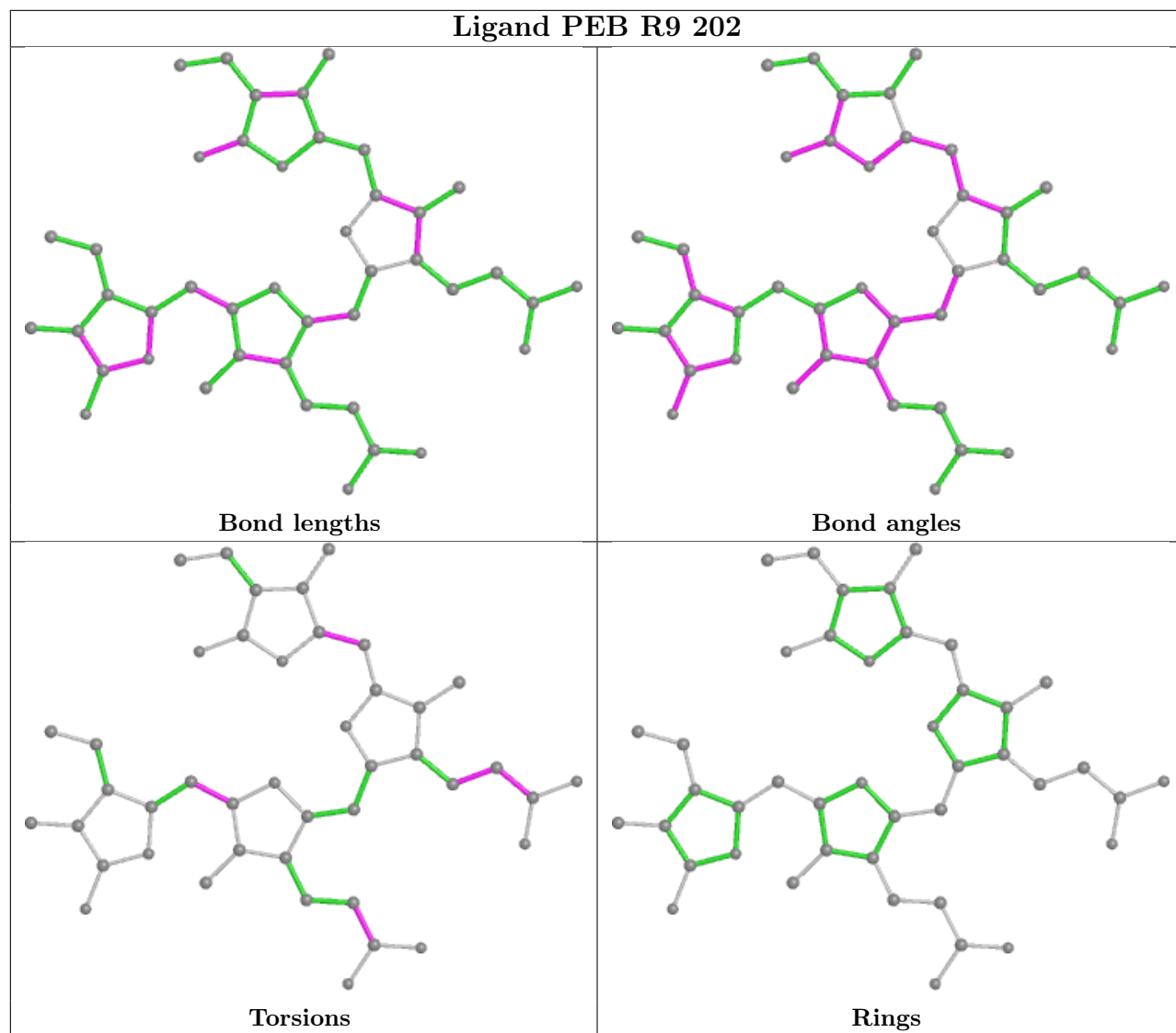
Bond angles

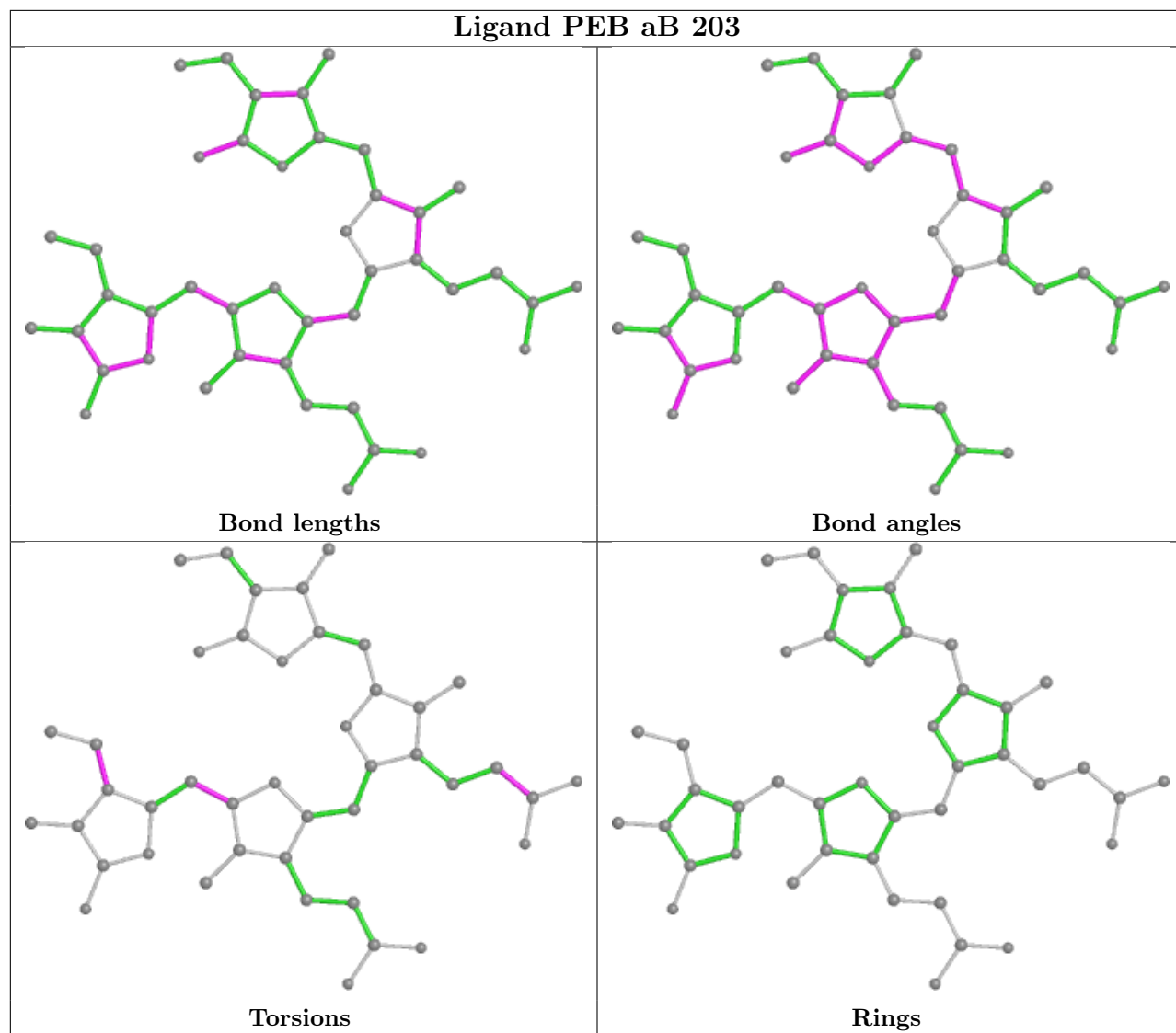


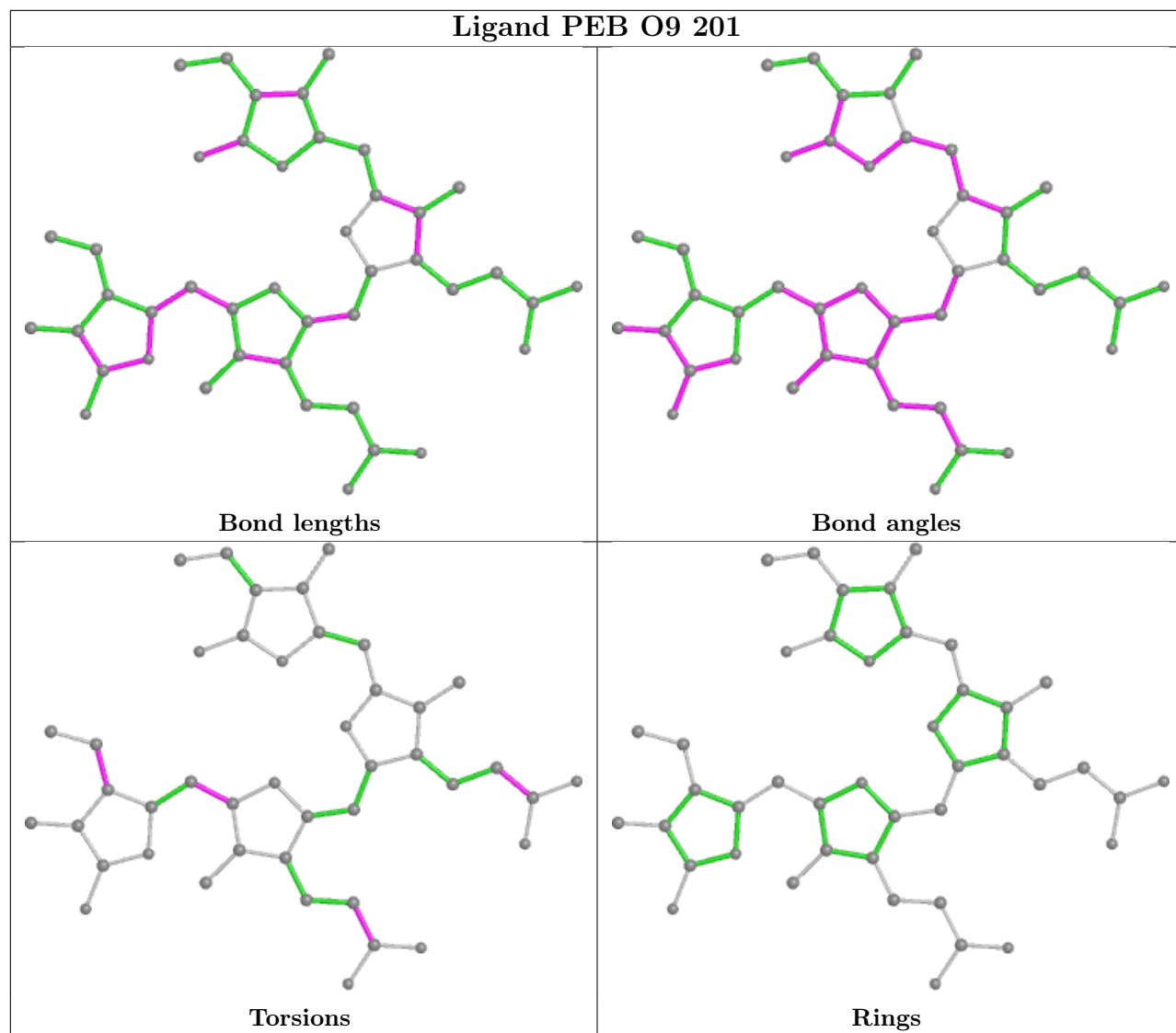
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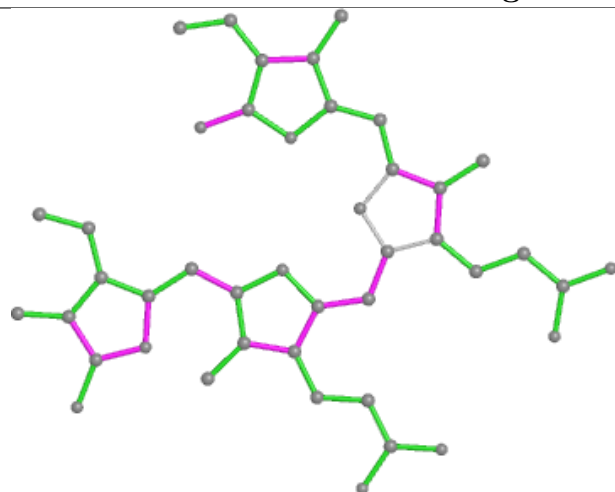
Rings



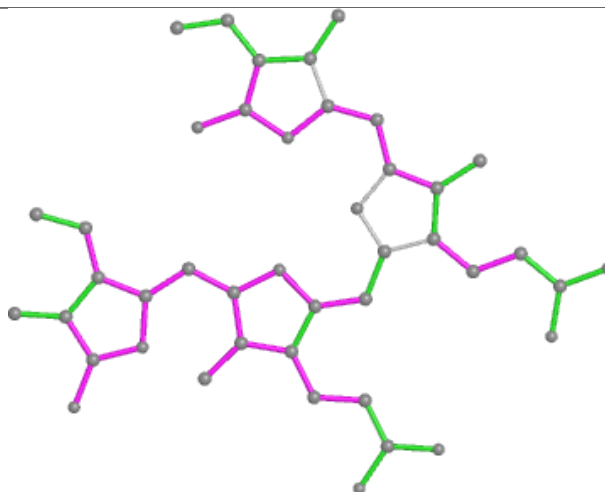




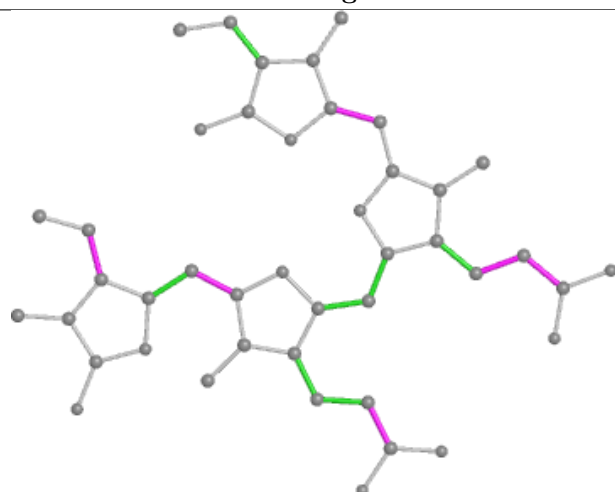
Ligand PEB W2 202



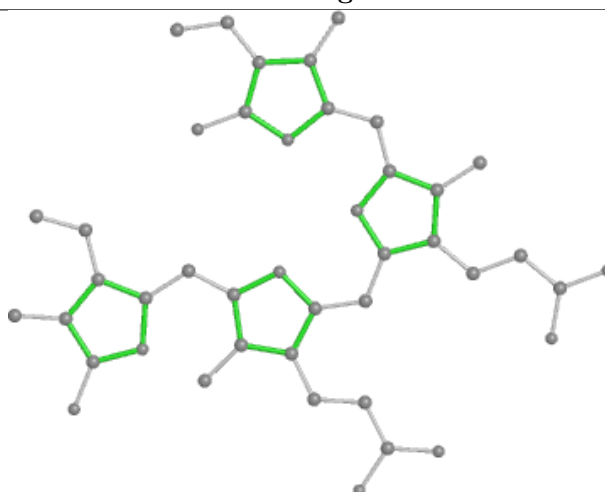
Bond lengths



Bond angles

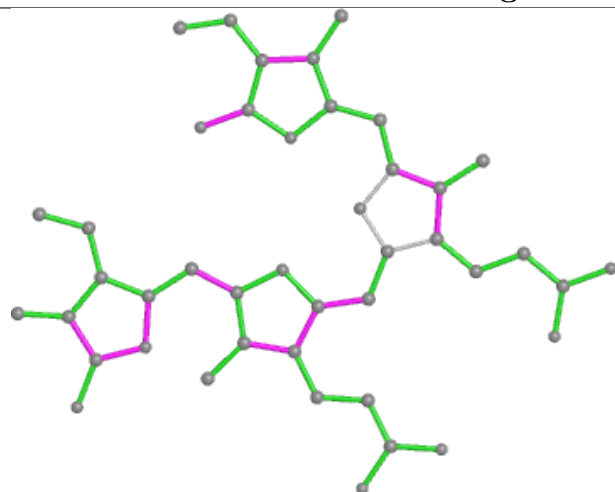


Torsions

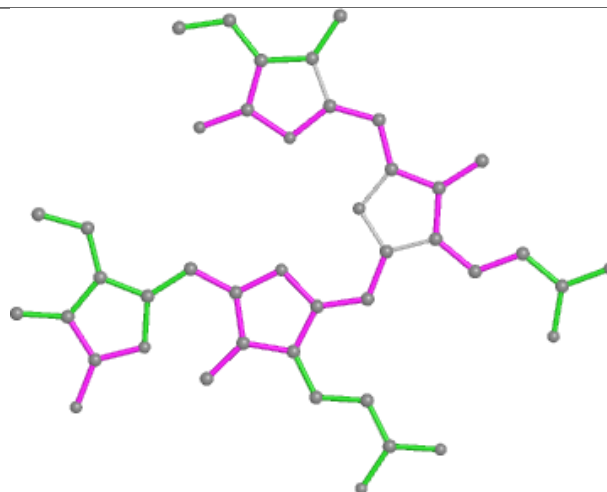


Rings

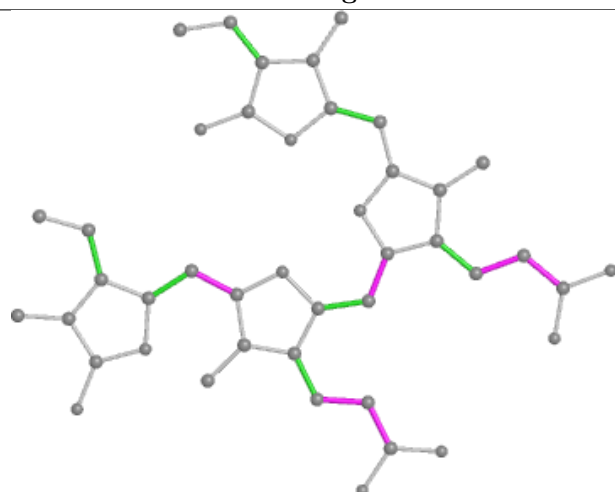
Ligand PEB MB 202



Bond lengths



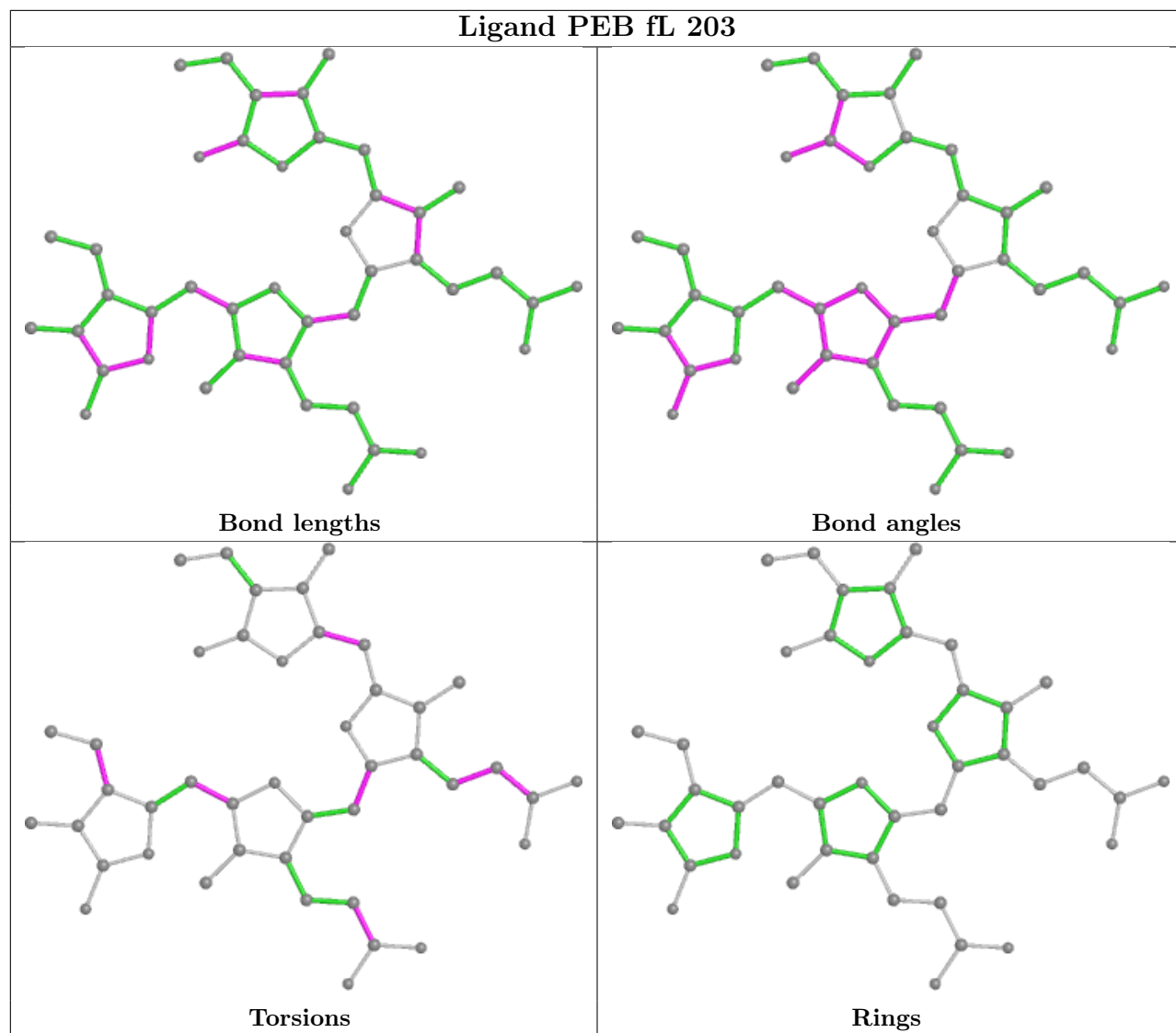
Bond angles

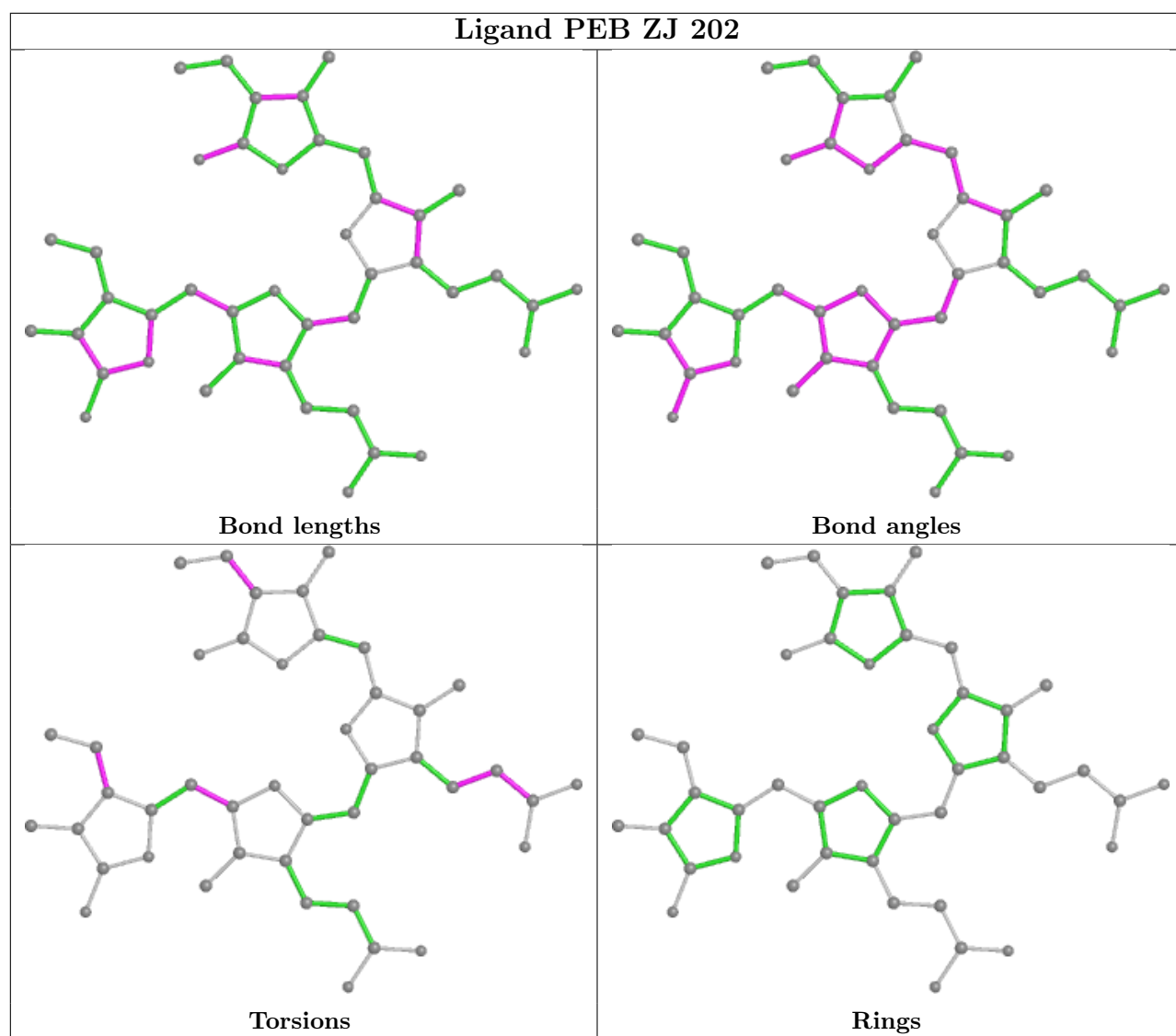


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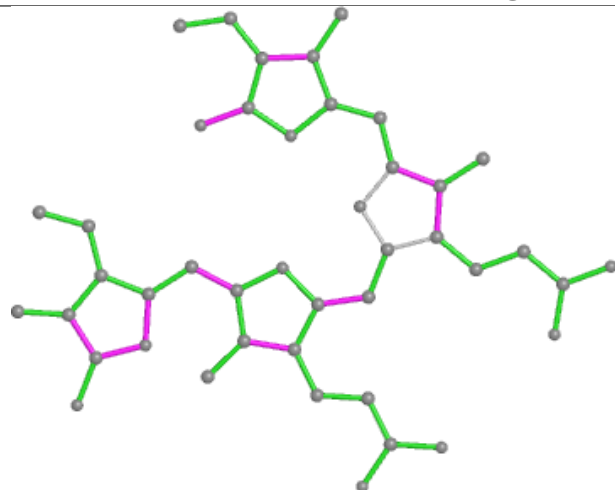


Rings

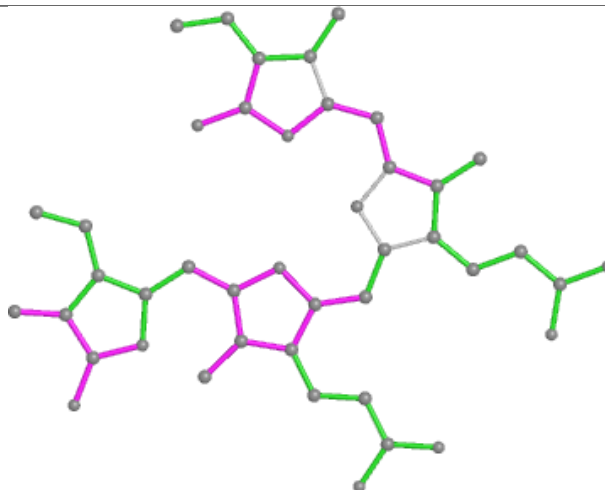




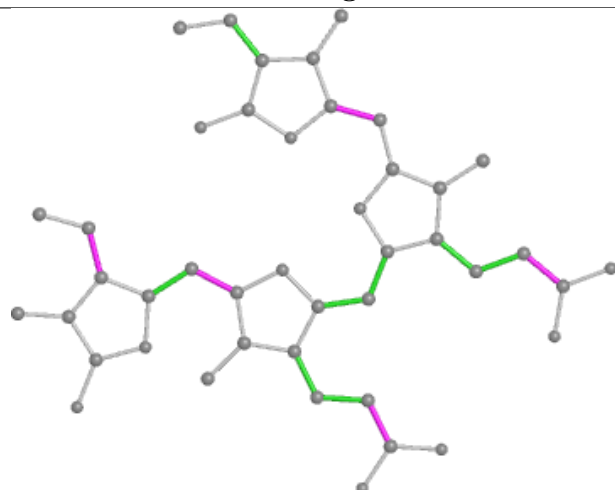
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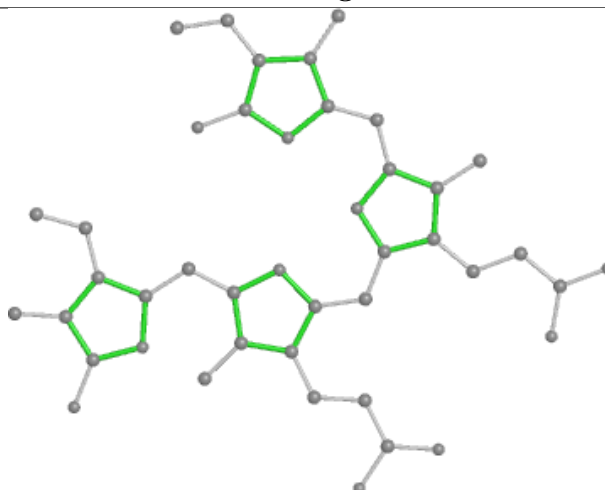
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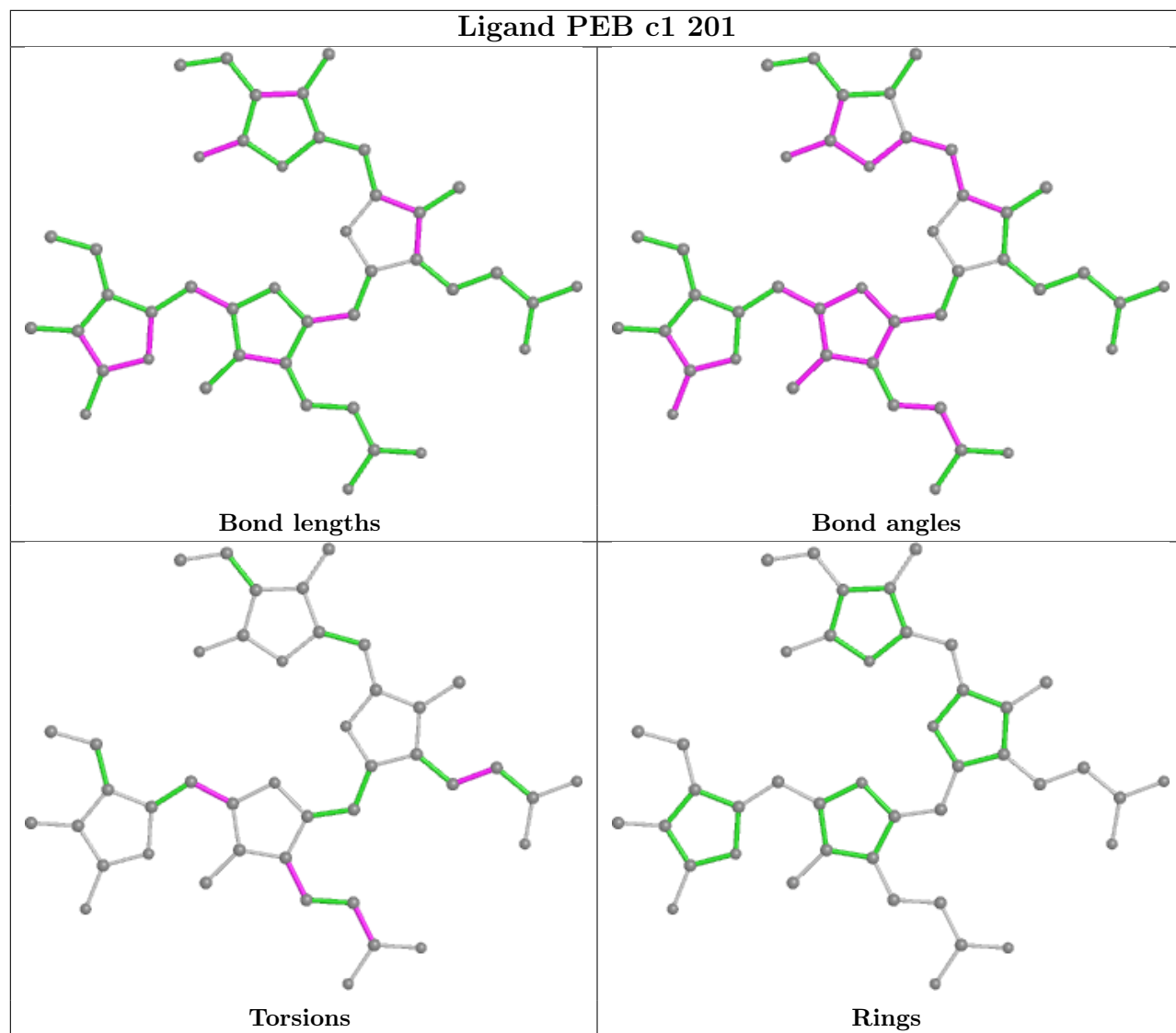
Bond angles



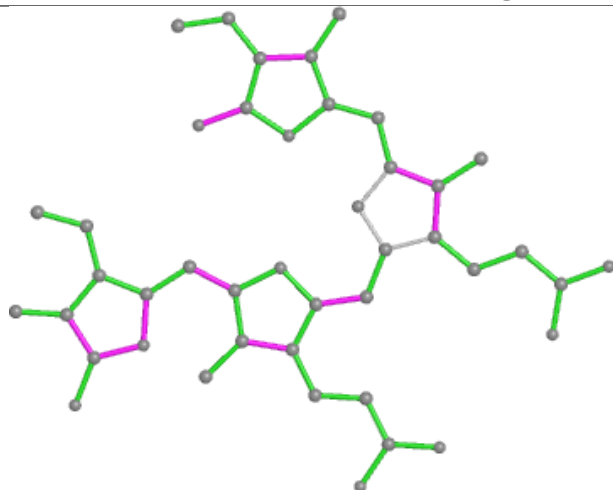
Torsions



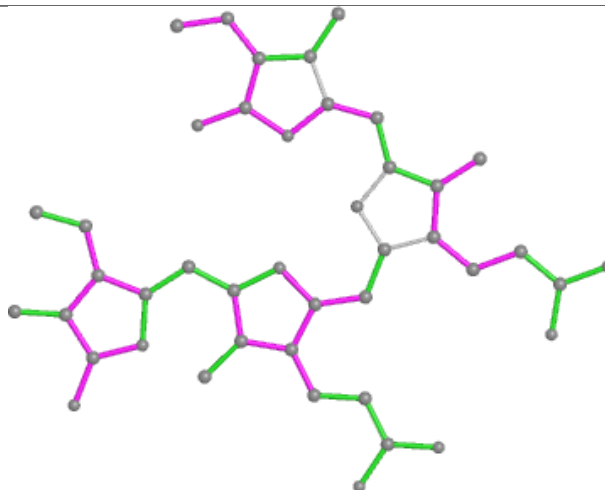
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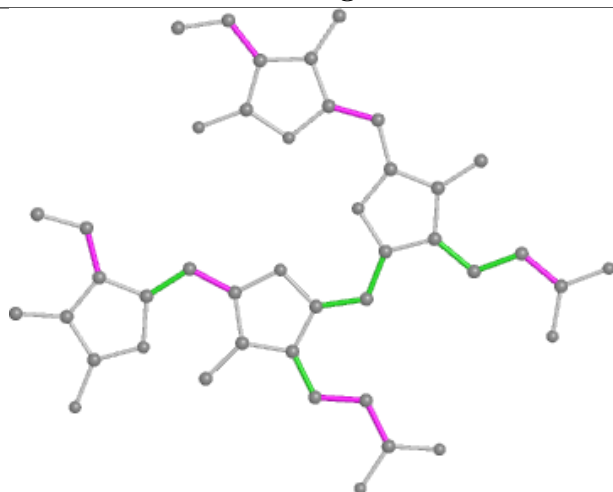
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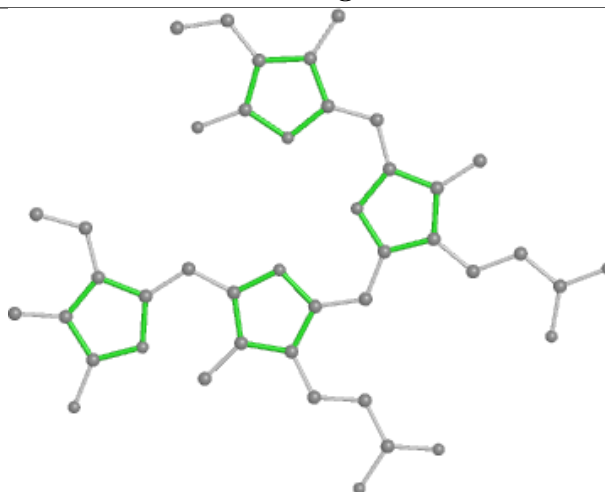
Bond lengths



Bond angles

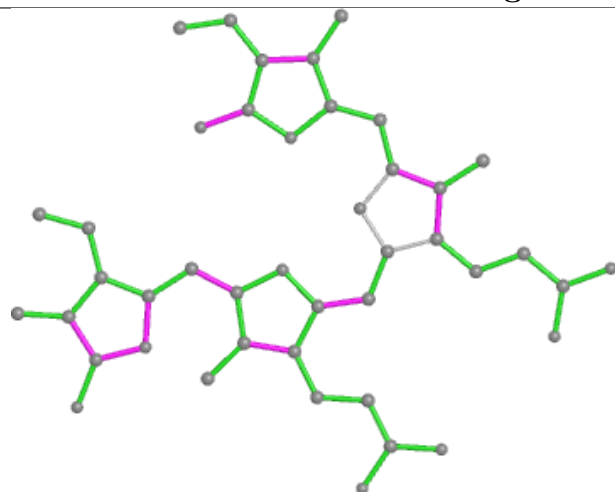


Torsions

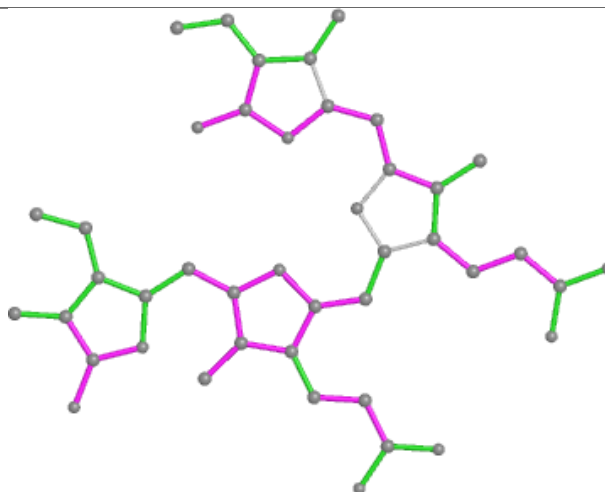


Rings

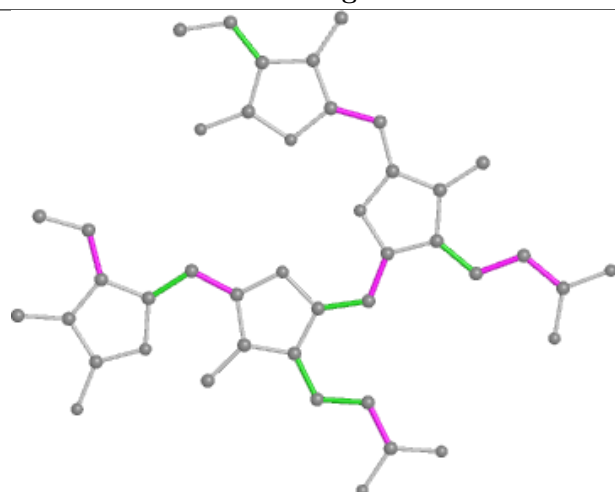
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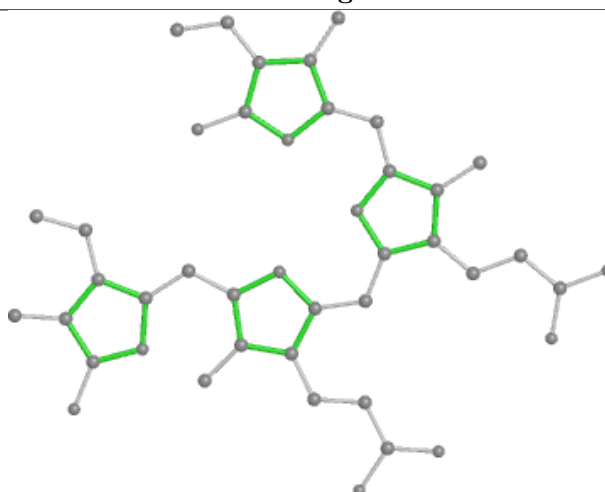
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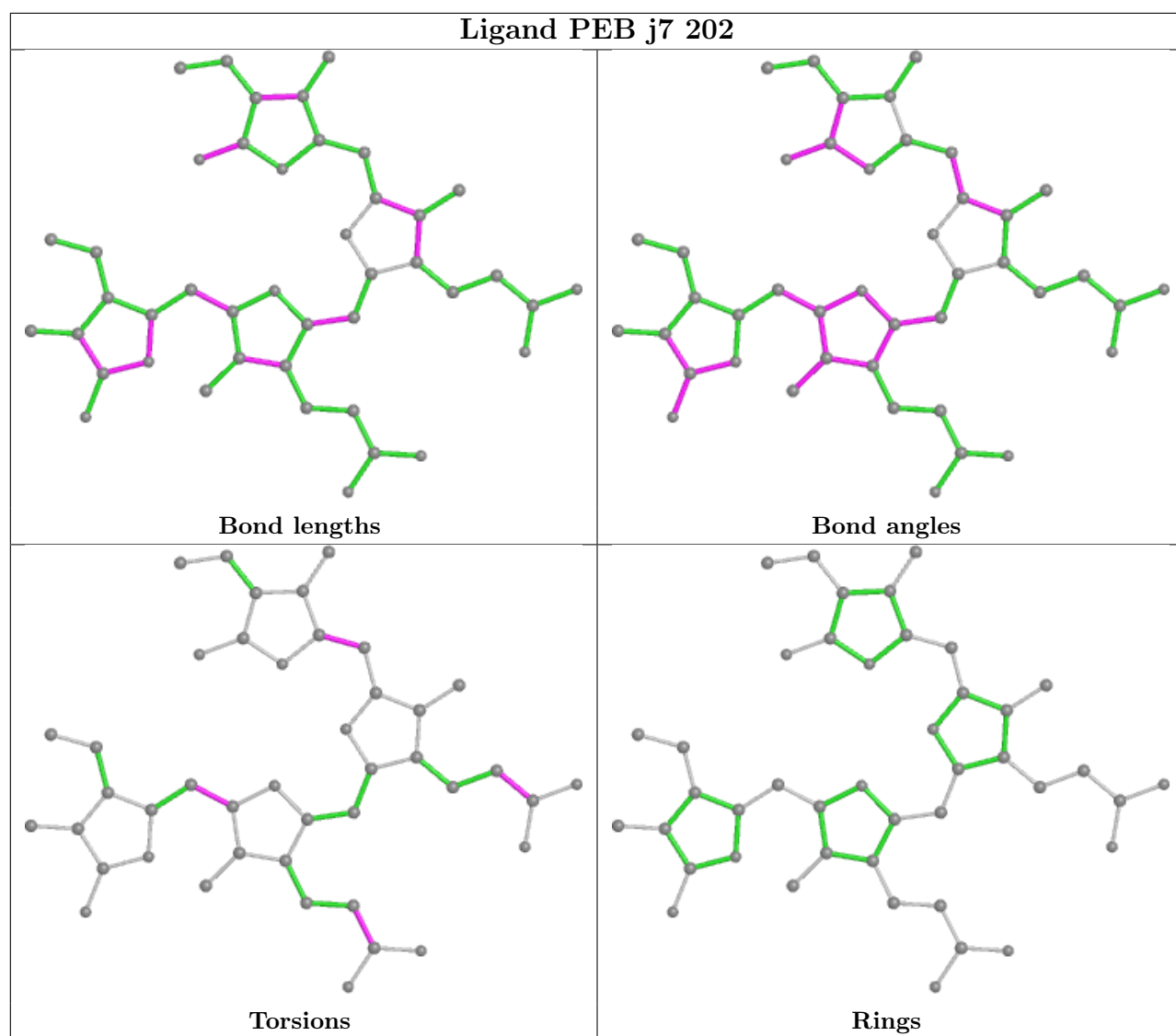
Bond angles



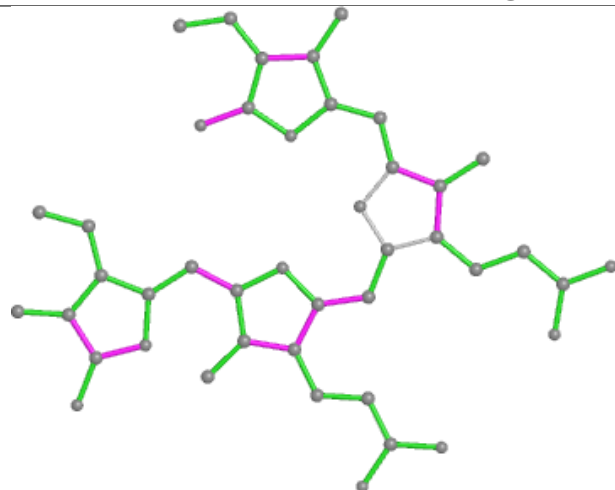
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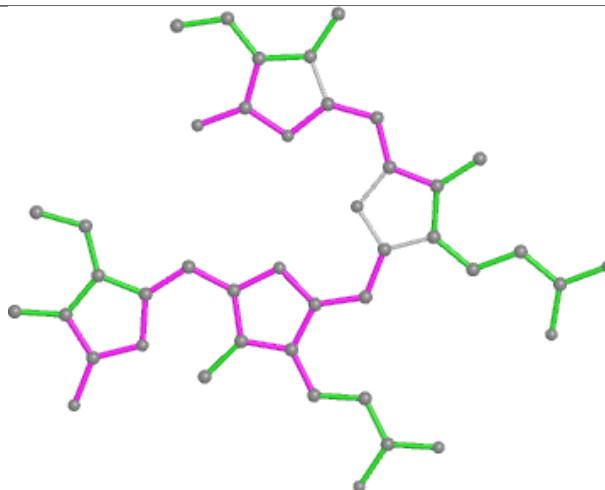
Rings



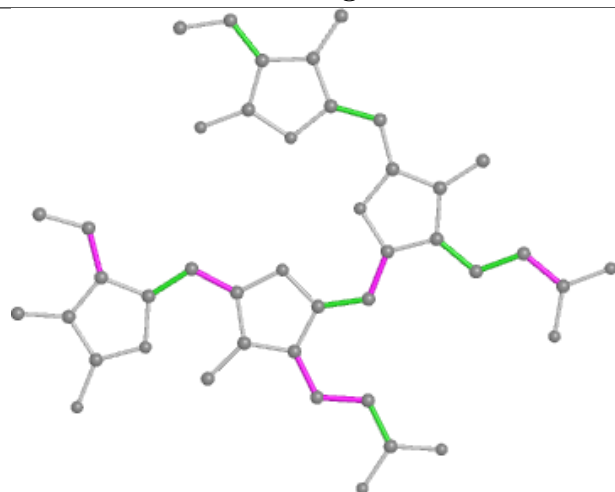
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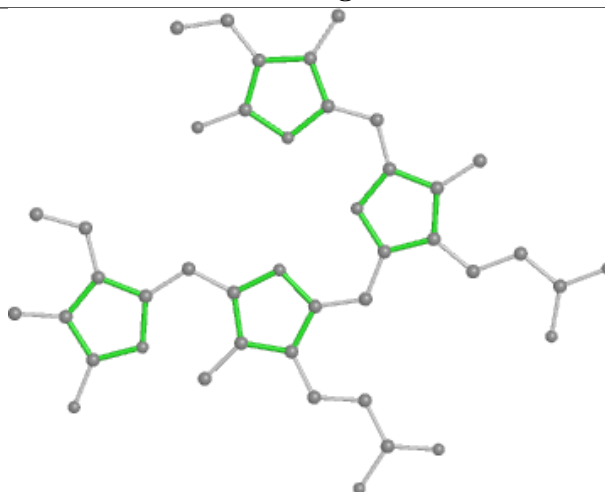
Bond lengths



Bond angles

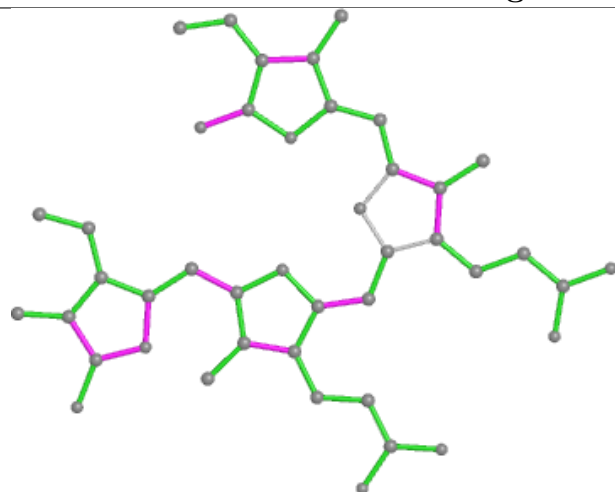


Torsions

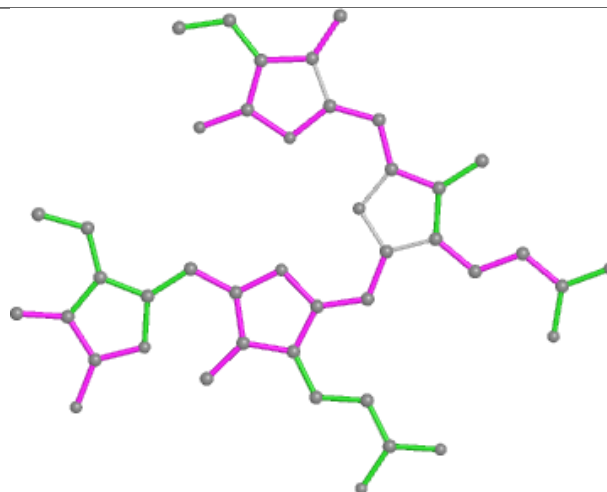


Rings

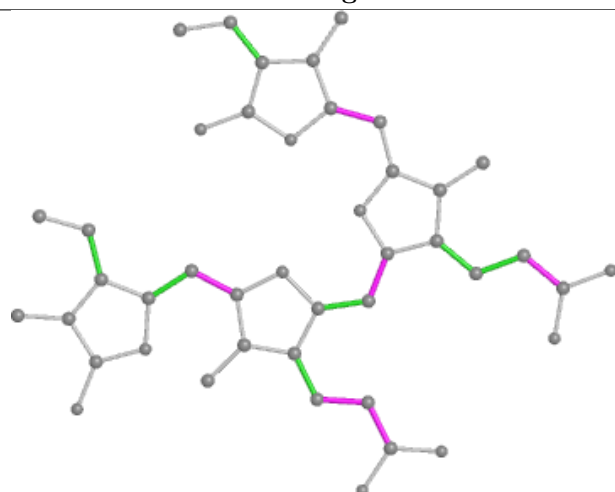
Ligand PEB K4 203



Bond lengths



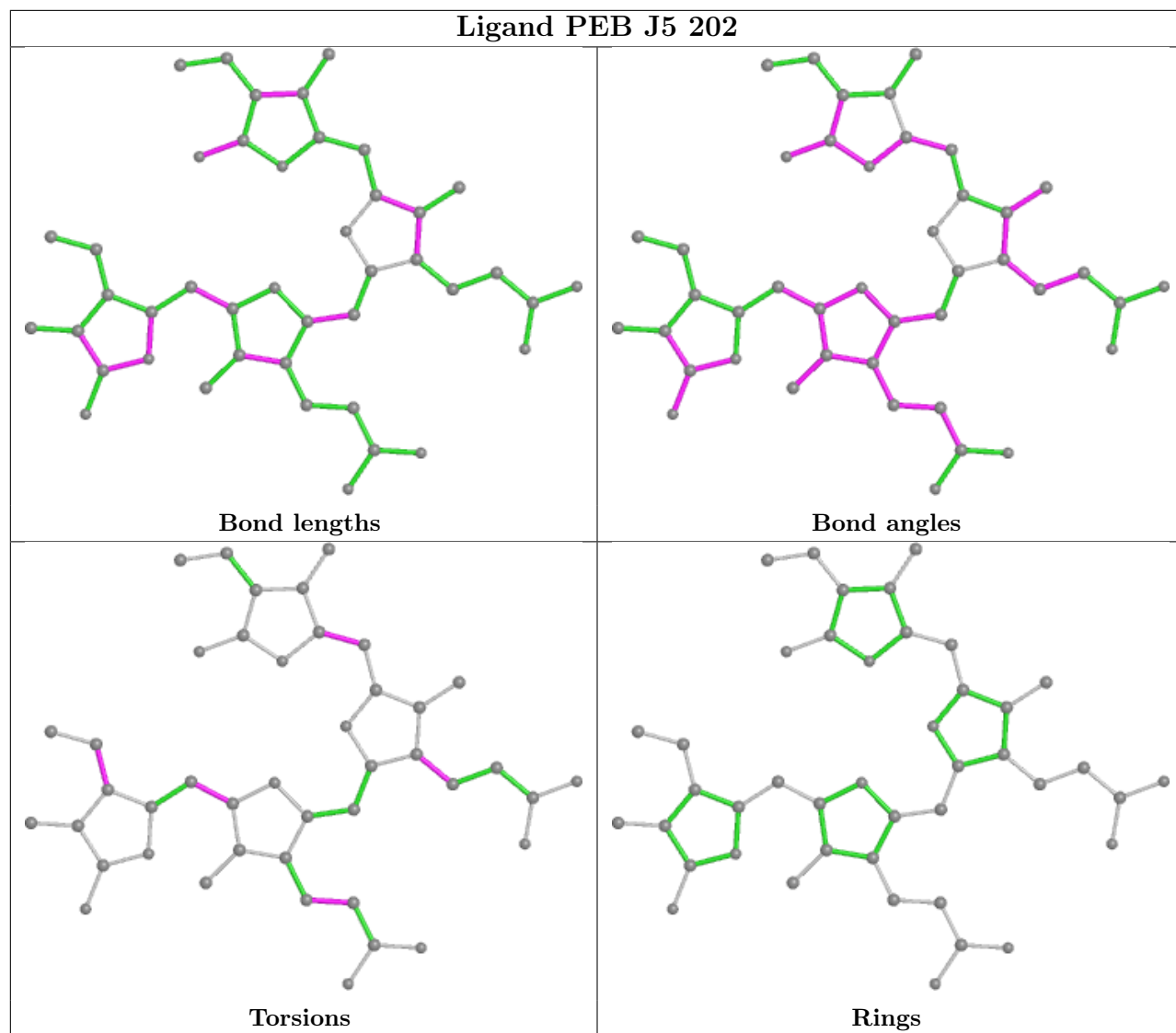
Bond angles

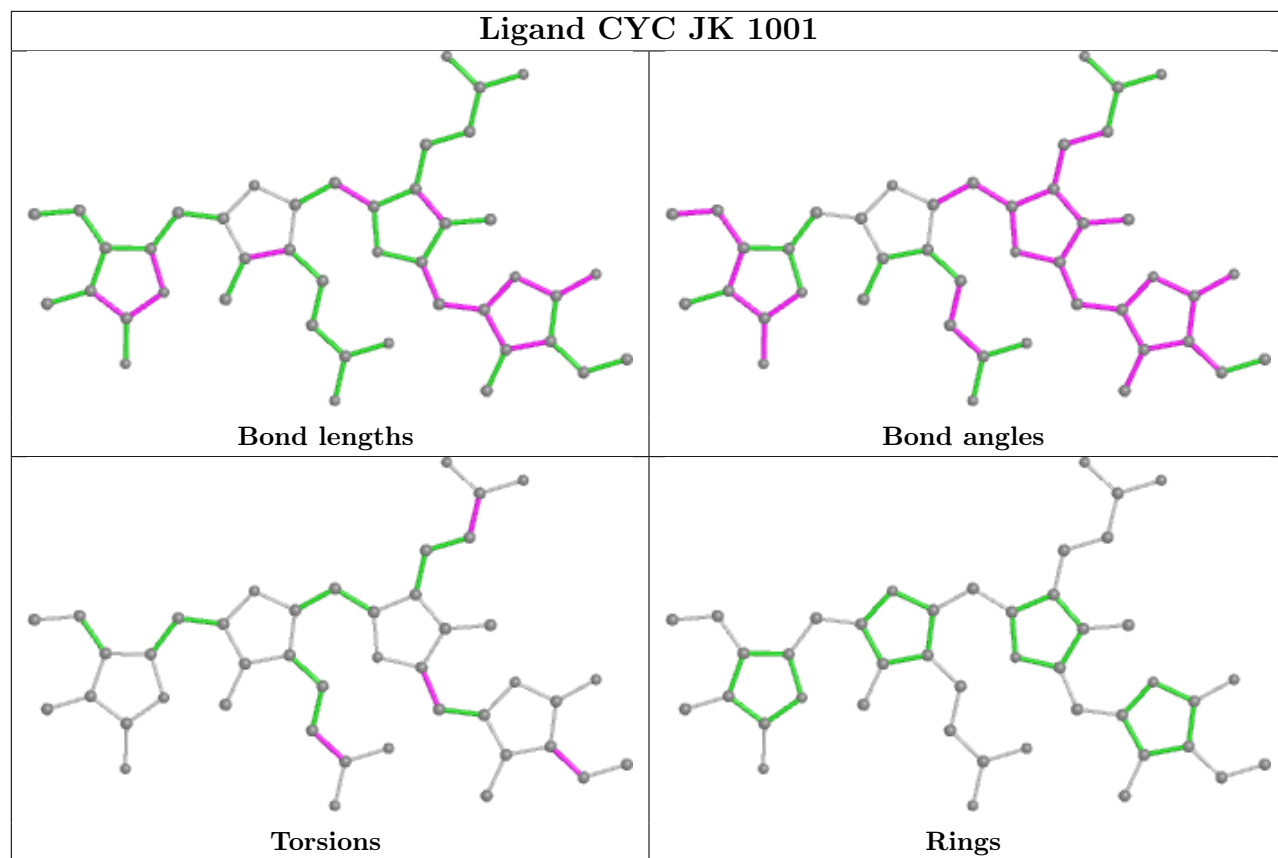


Torsions

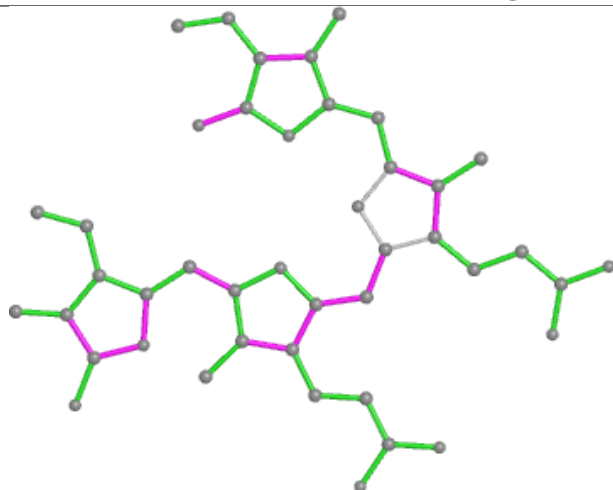


Rings

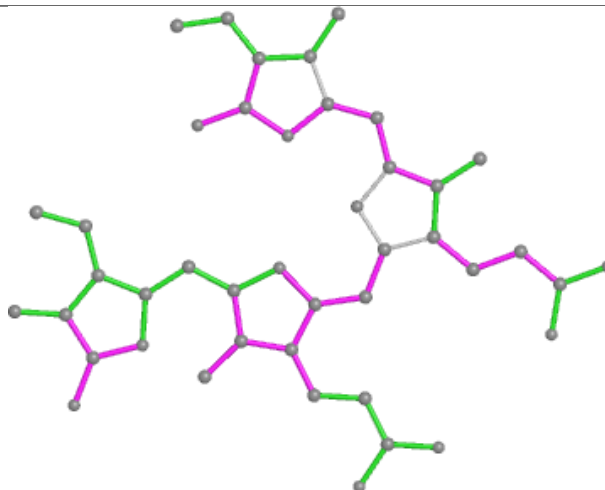




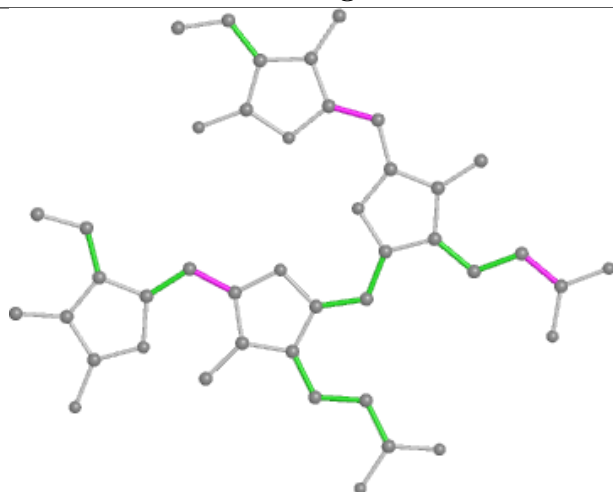
Ligand PEB FC 201



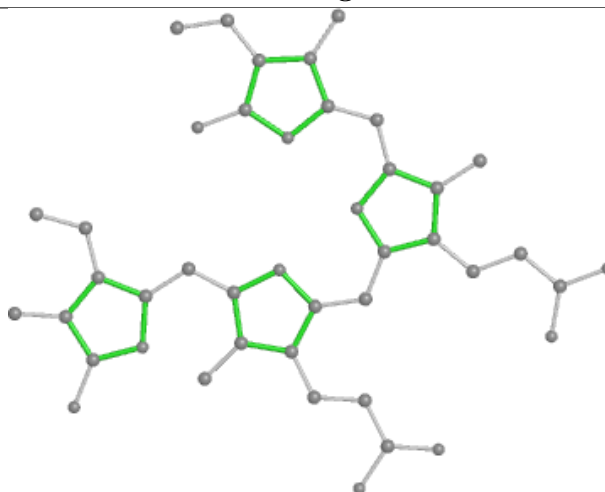
Bond lengths



Bond angles

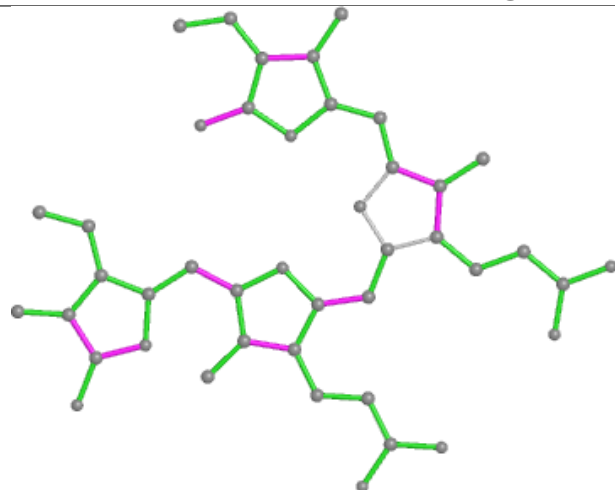


Torsions

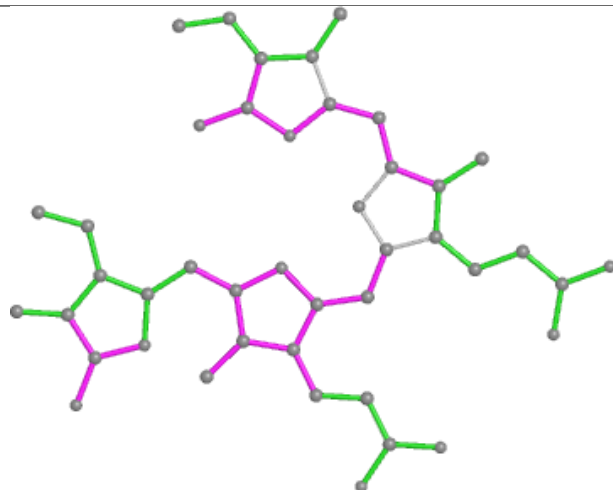


Rings

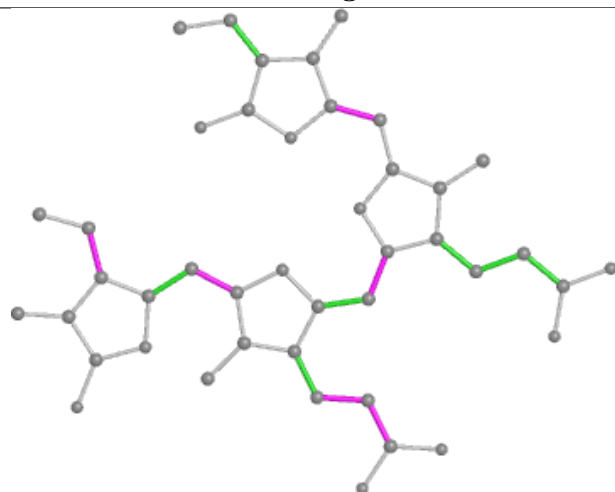
Ligand PEB HN 203



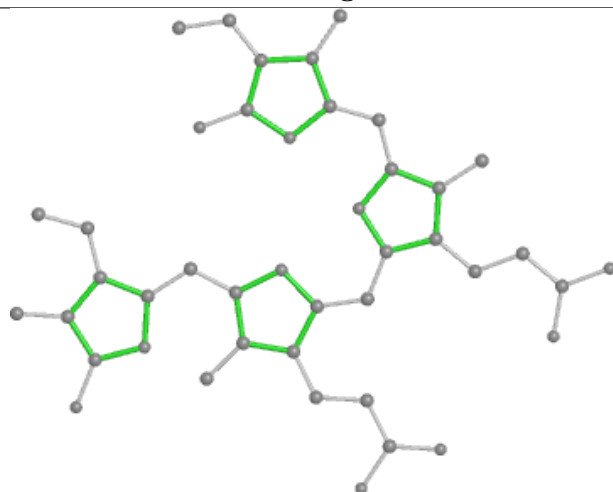
Bond lengths



Bond angles

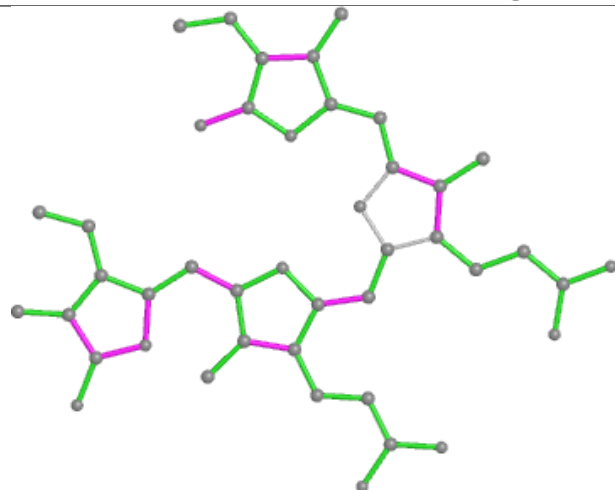


Torsions

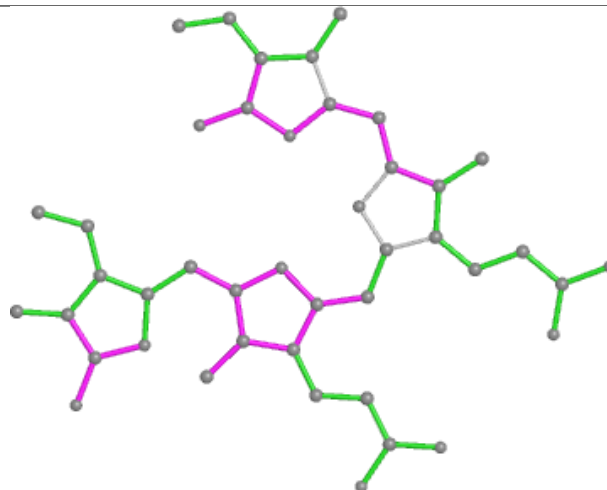


Rings

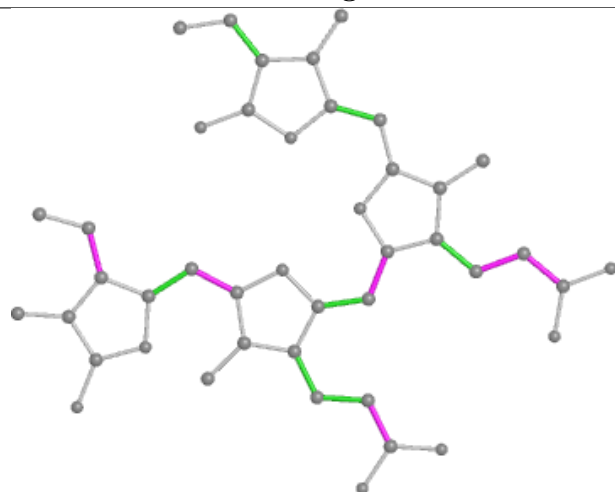
Ligand PEB EL 202



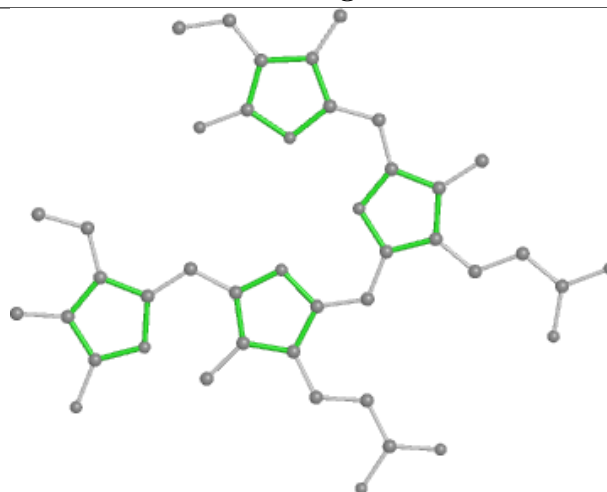
Bond lengths



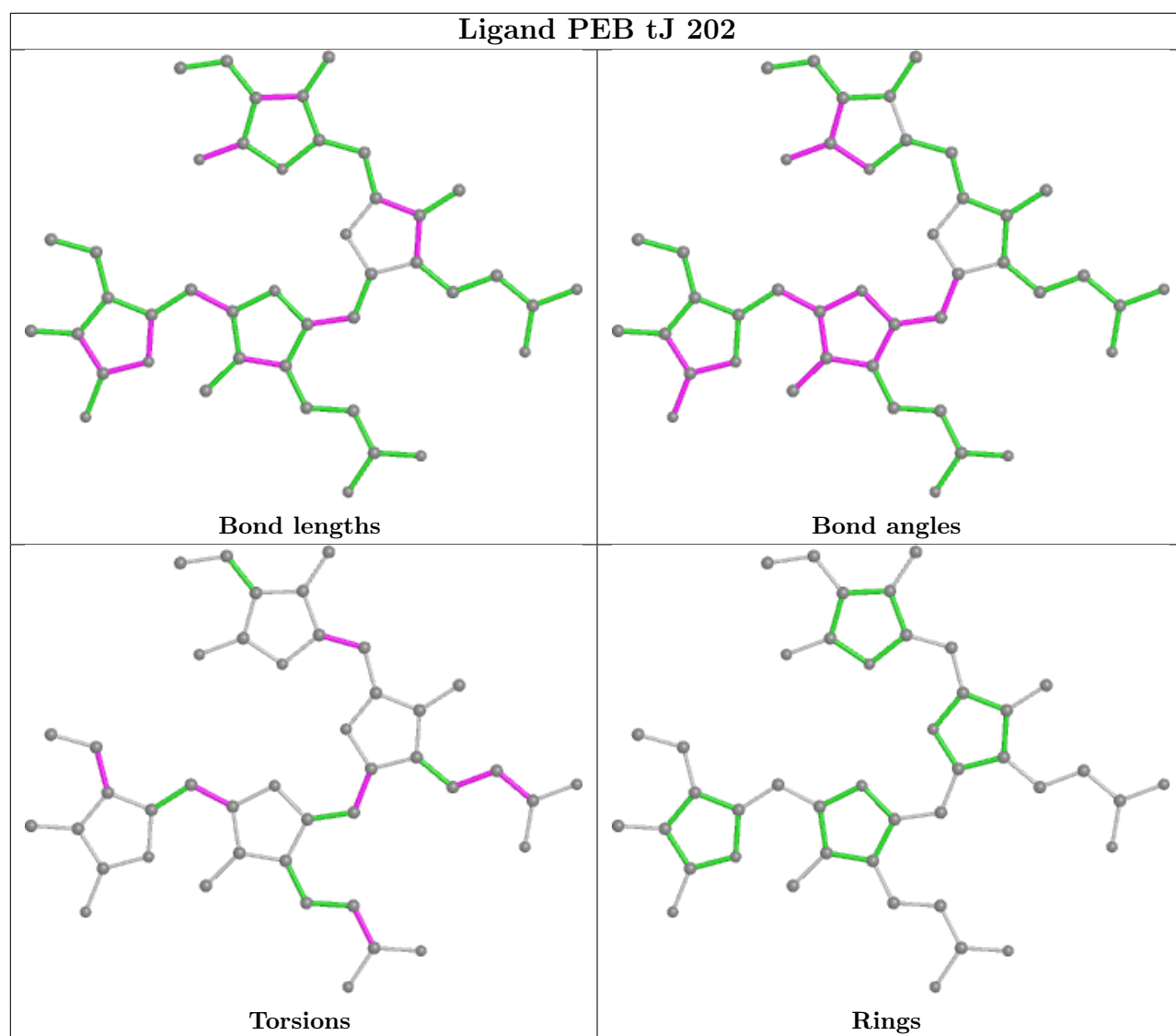
Bond angles



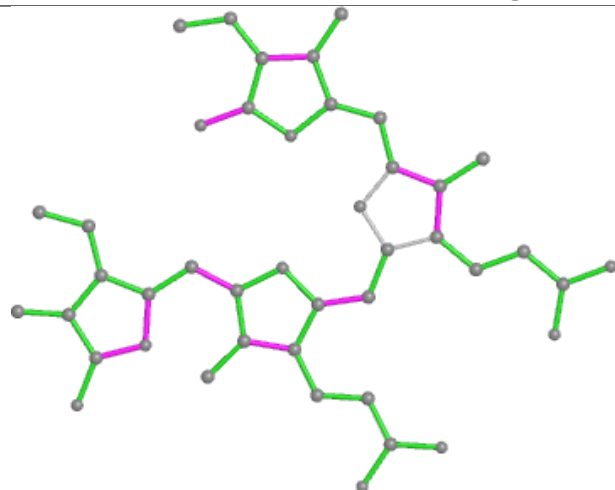
Torsions



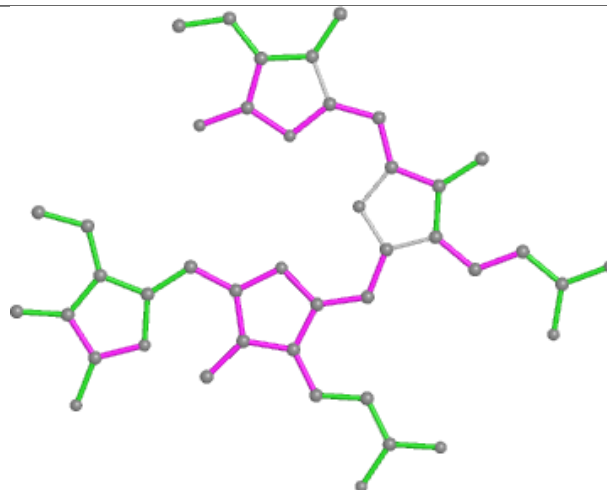
Rings



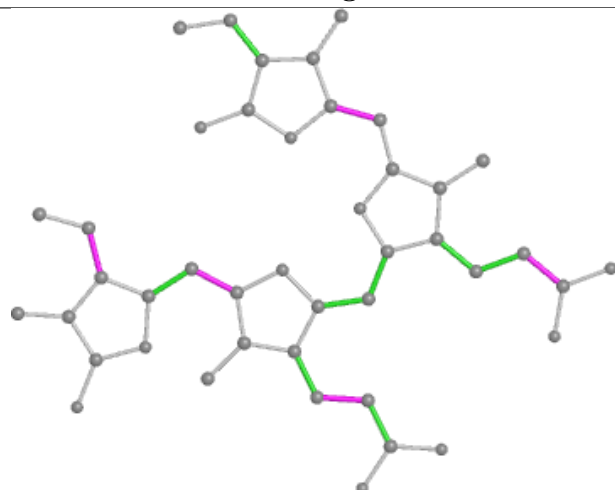
Ligand PEB KJ 201



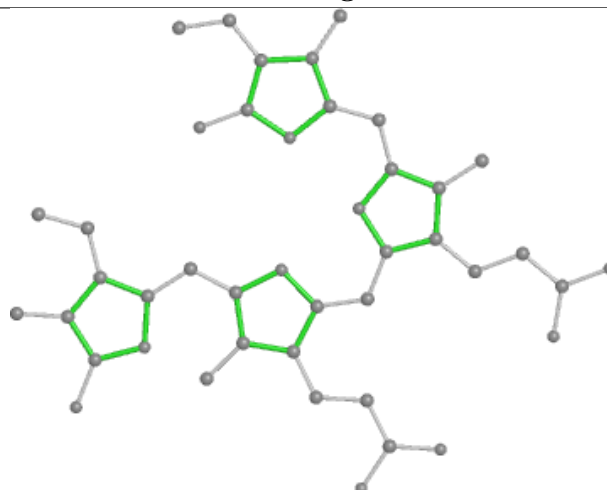
Bond lengths



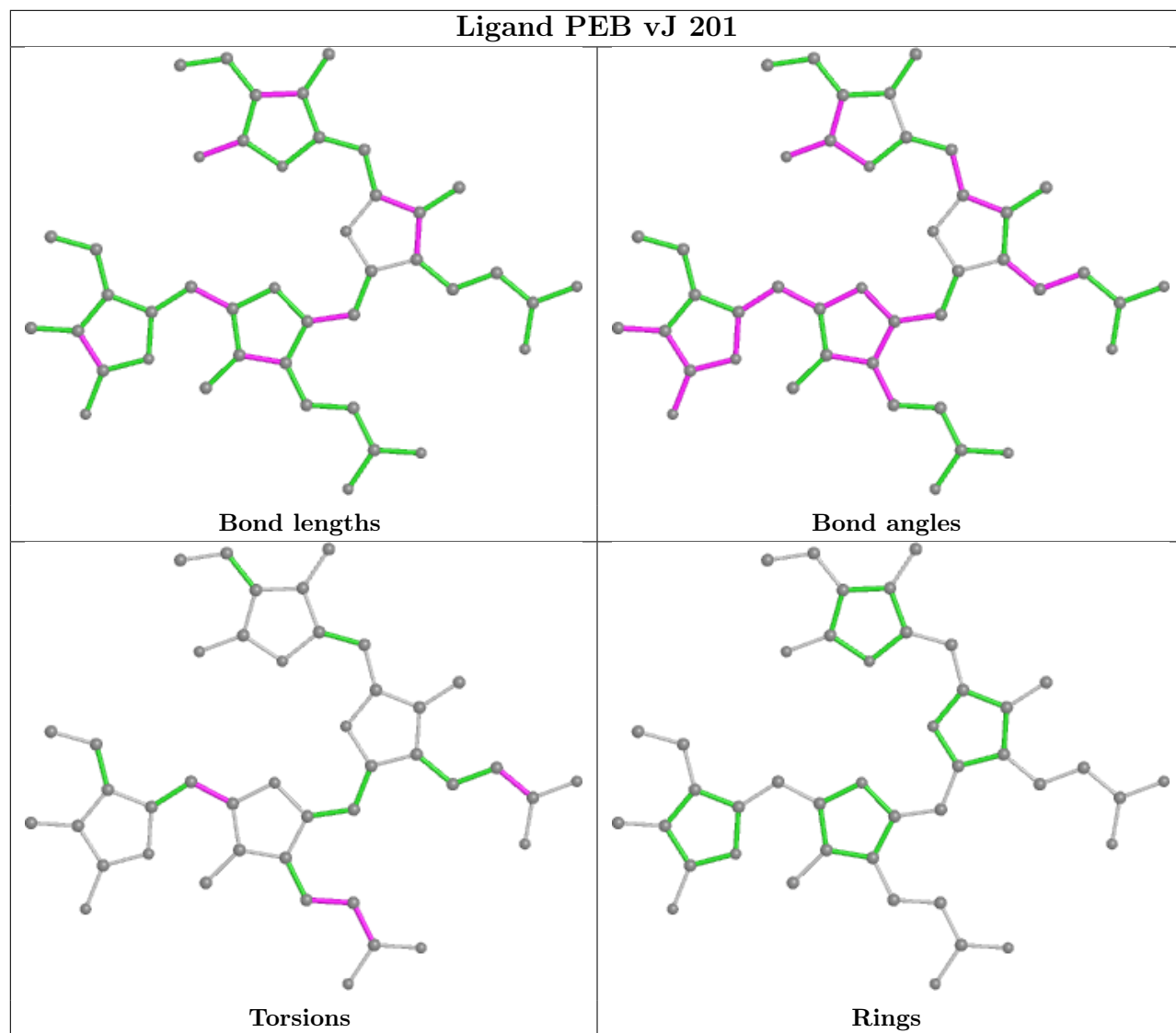
Bond angles



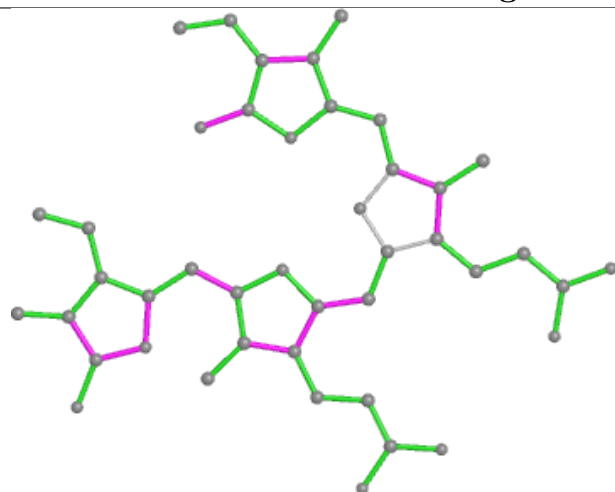
Torsions



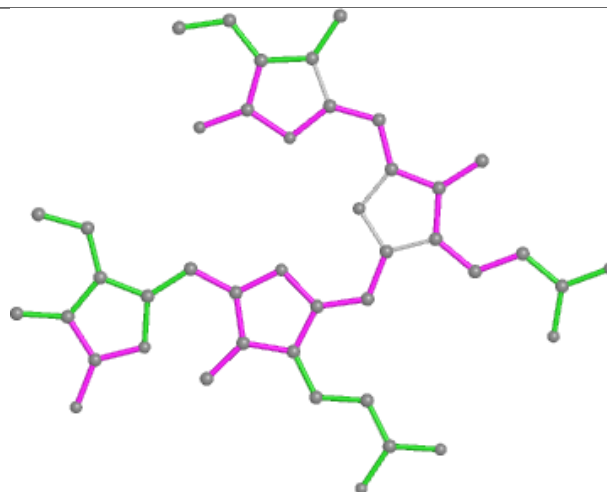
Rings



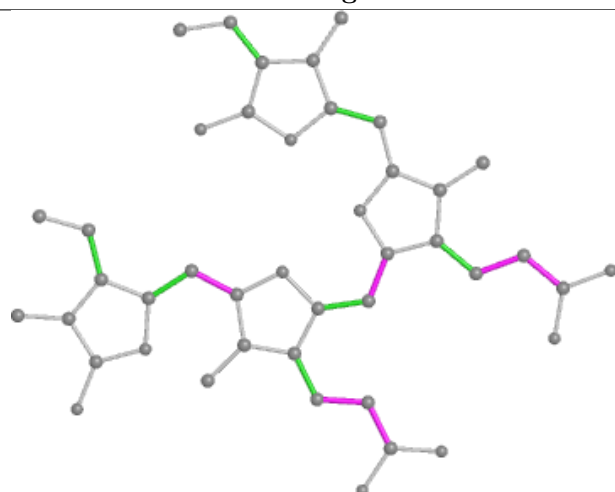
Ligand PEB OM 202



Bond lengths



Bond angles

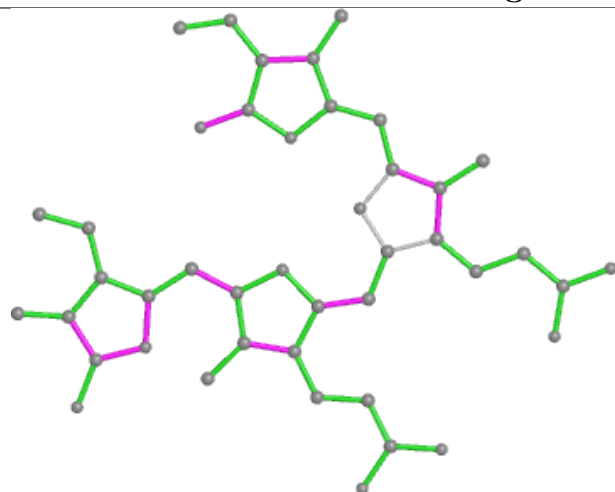


Torsions

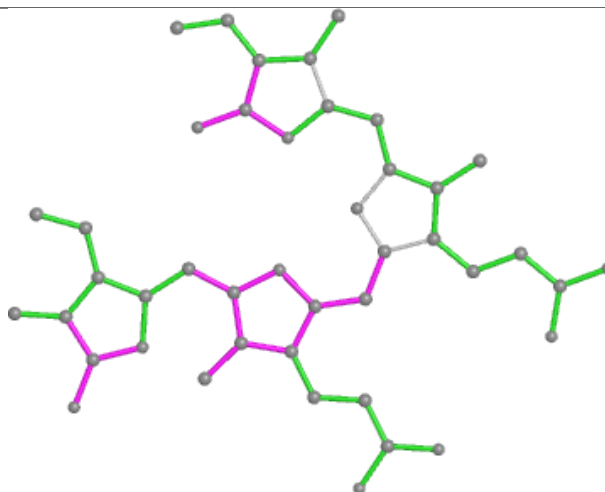


Rings

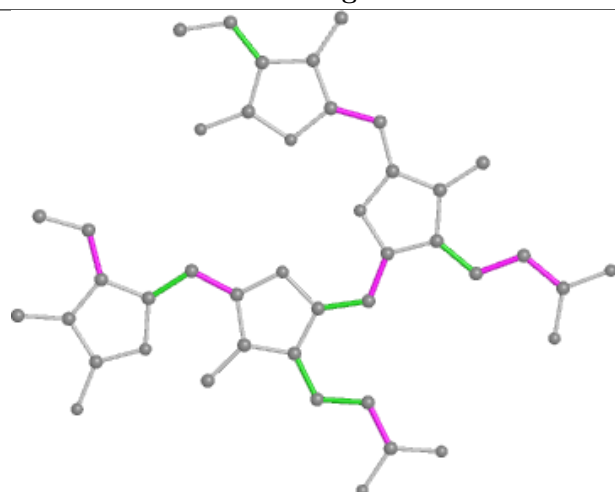
Ligand PEB VL 202



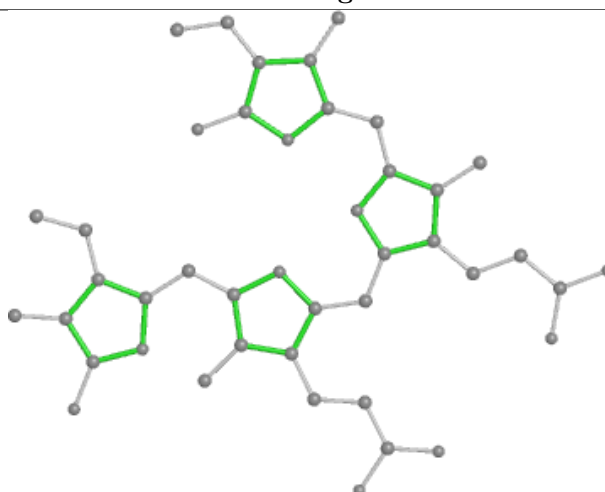
Bond lengths



Bond angles

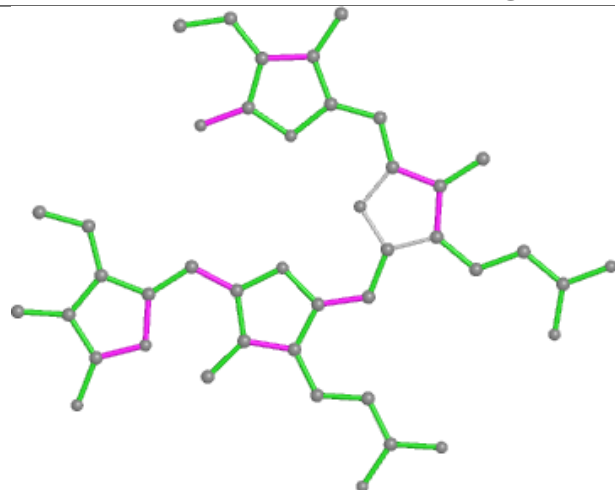


Torsions

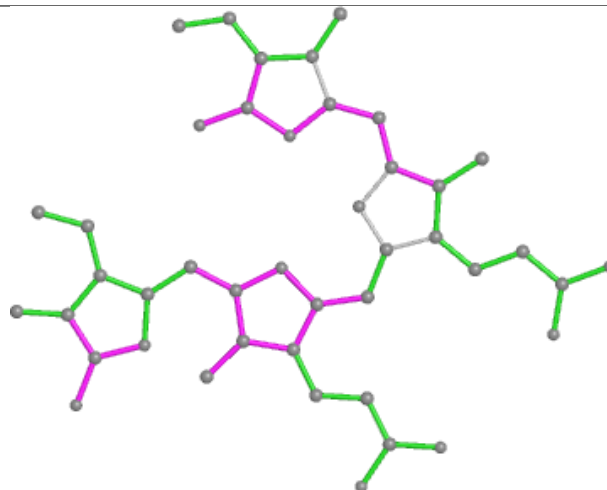


Rings

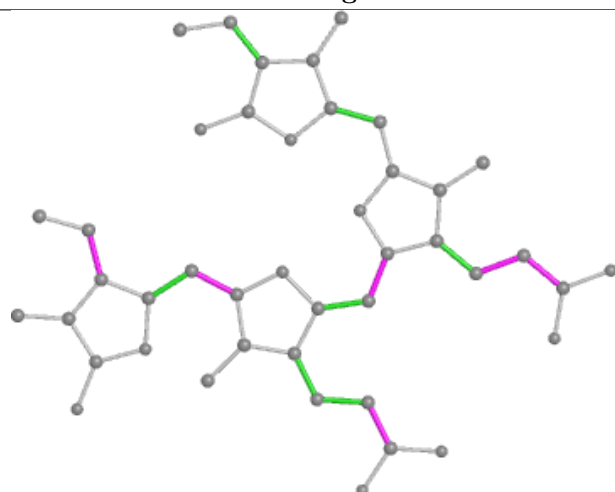
Ligand PEB ML 202



Bond lengths



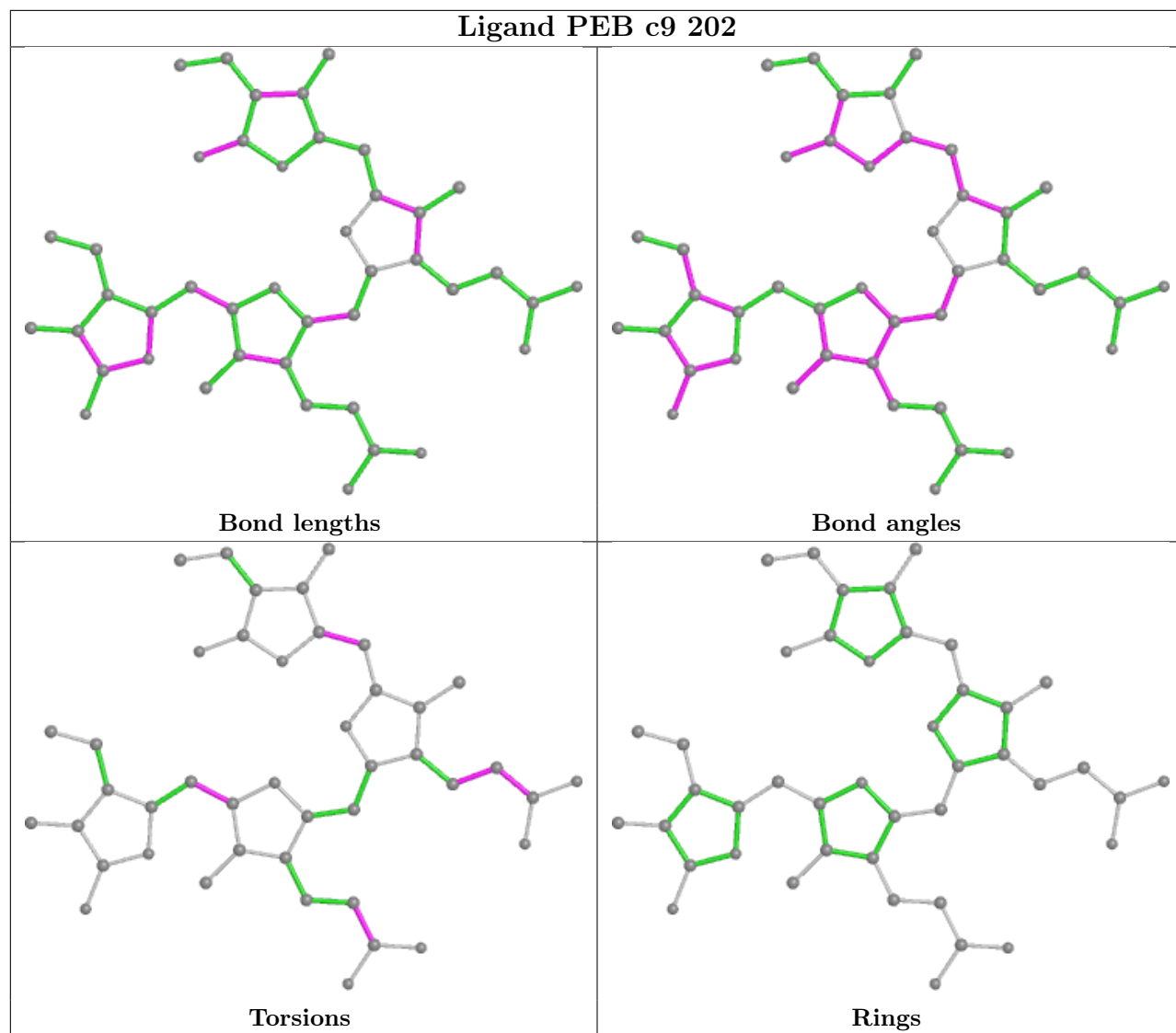
Bond angles

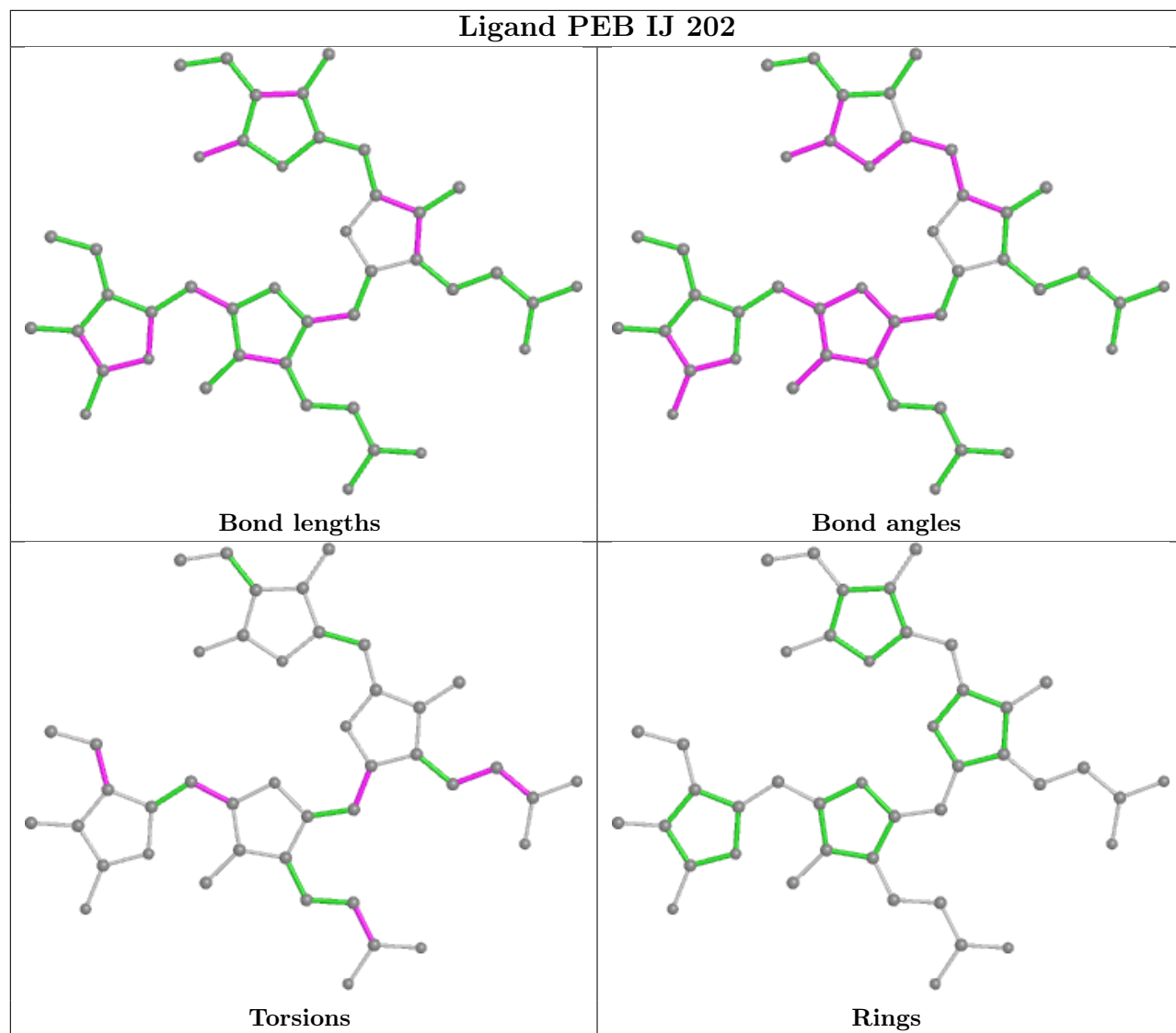


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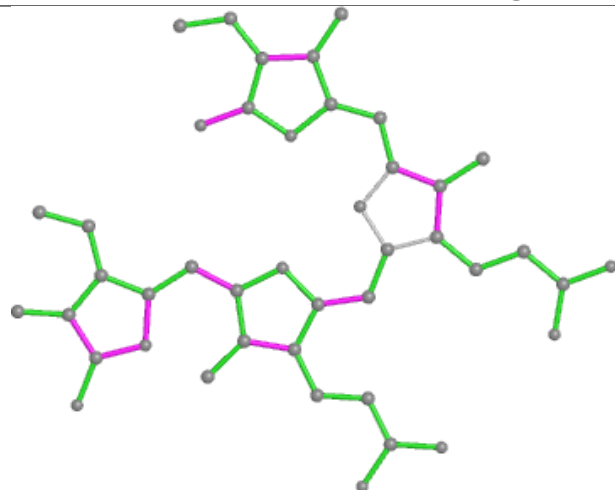


Rings

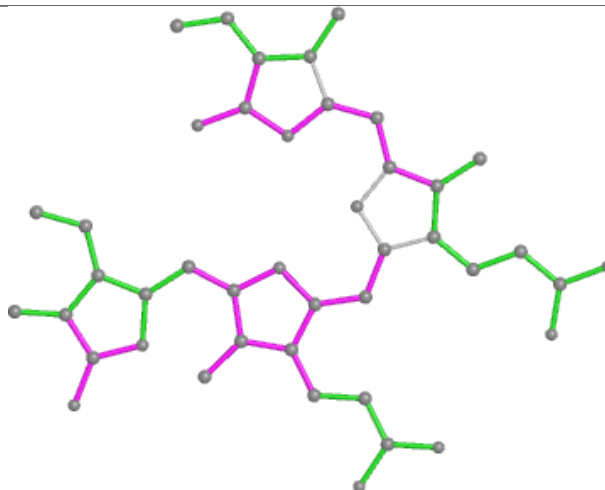




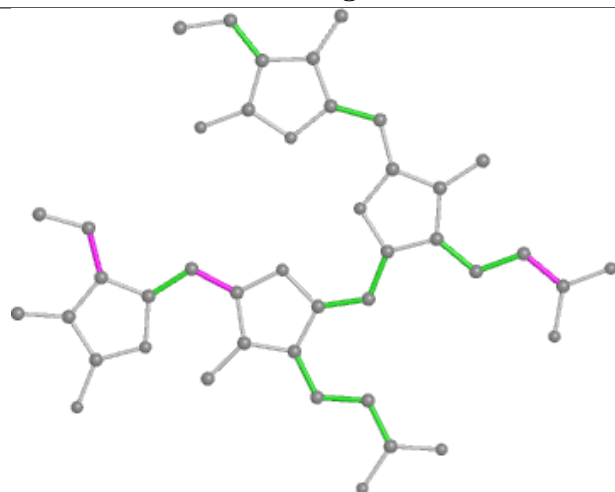
Ligand PEB JB 202



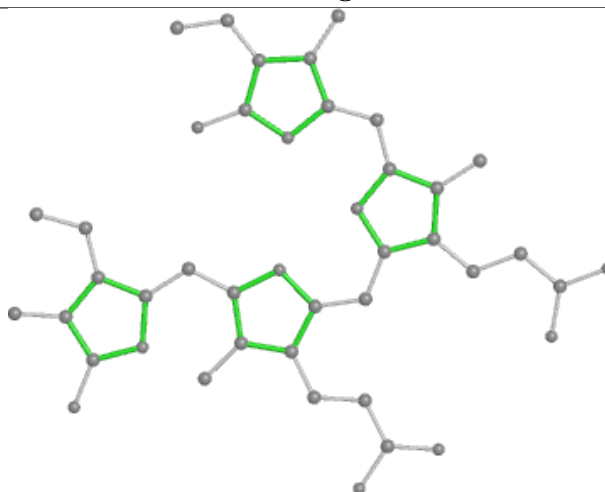
Bond lengths



Bond angles

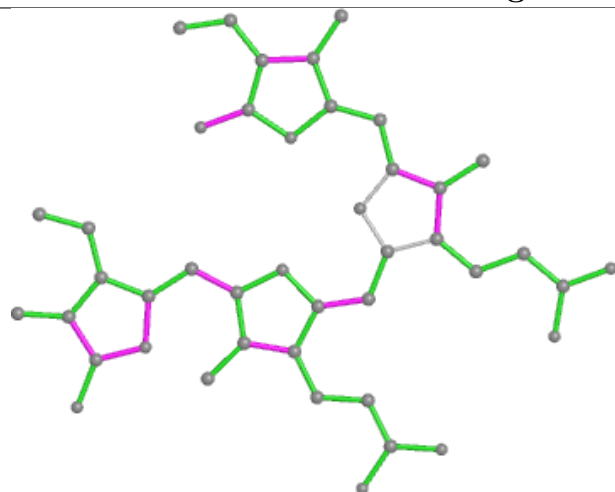


Torsions

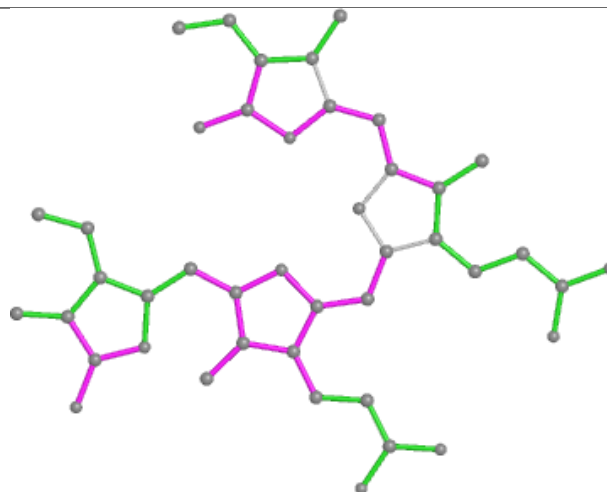


Rings

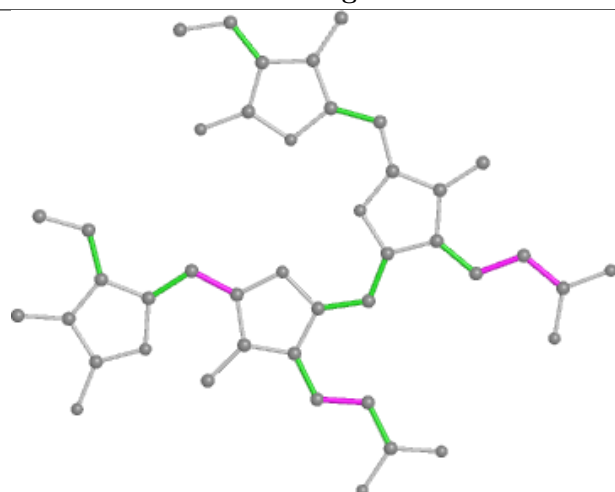
Ligand PEB V1 202



Bond lengths



Bond angles

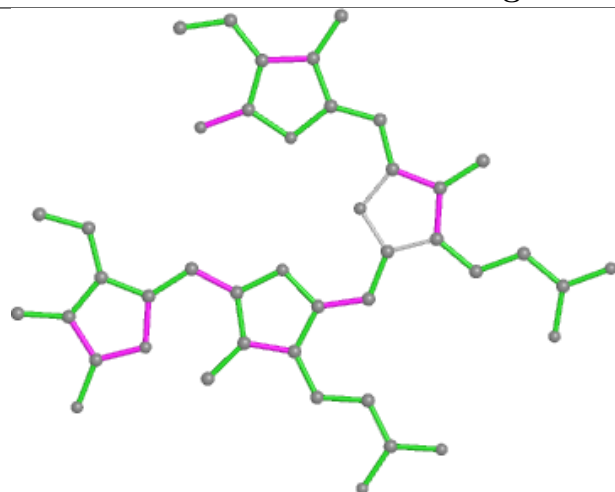


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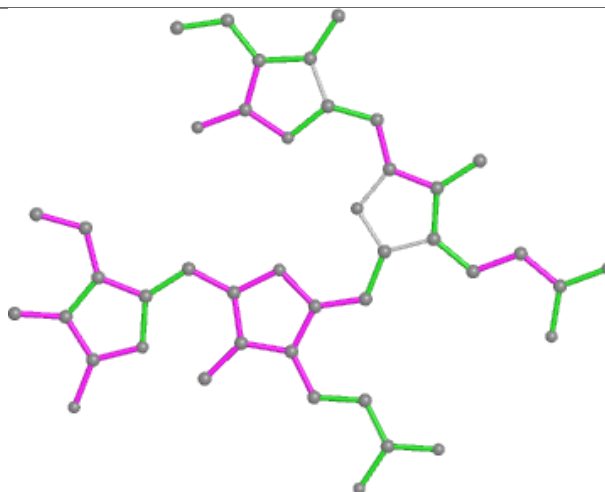


Rings

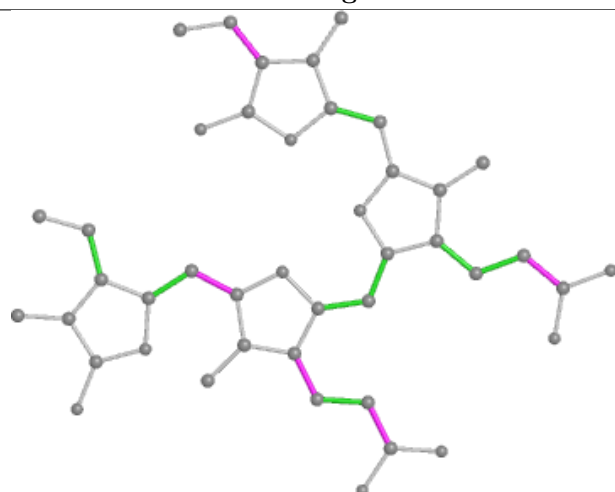
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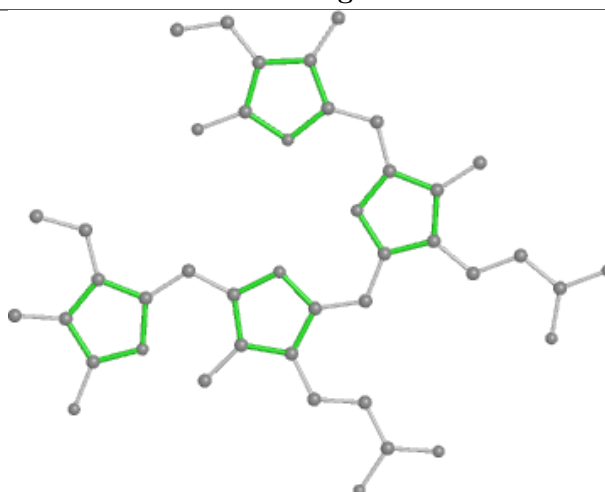
Bond lengths



Bond angles

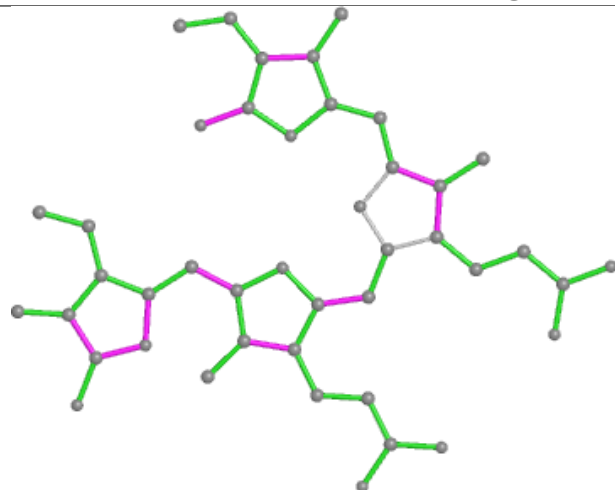


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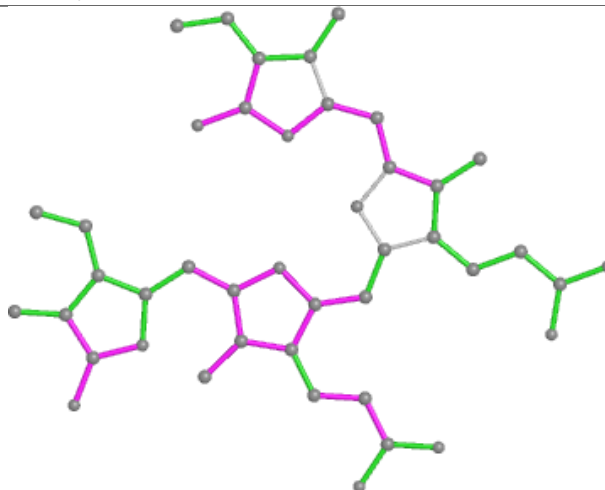


Rings

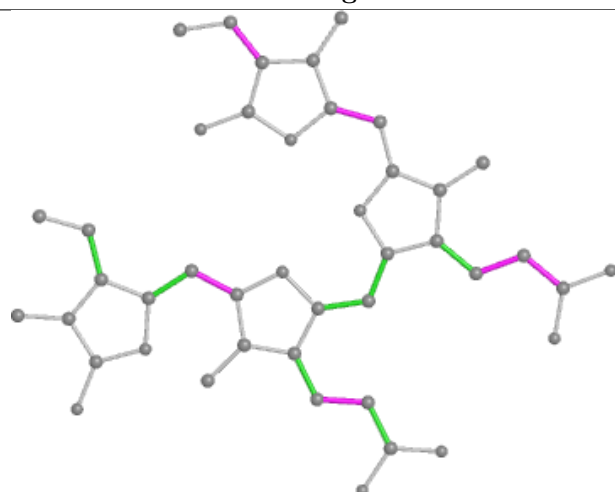
Ligand PEB FQ 201



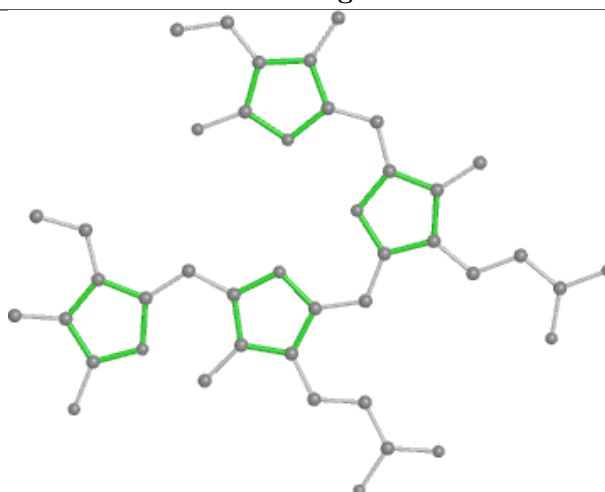
Bond lengths



Bond angles

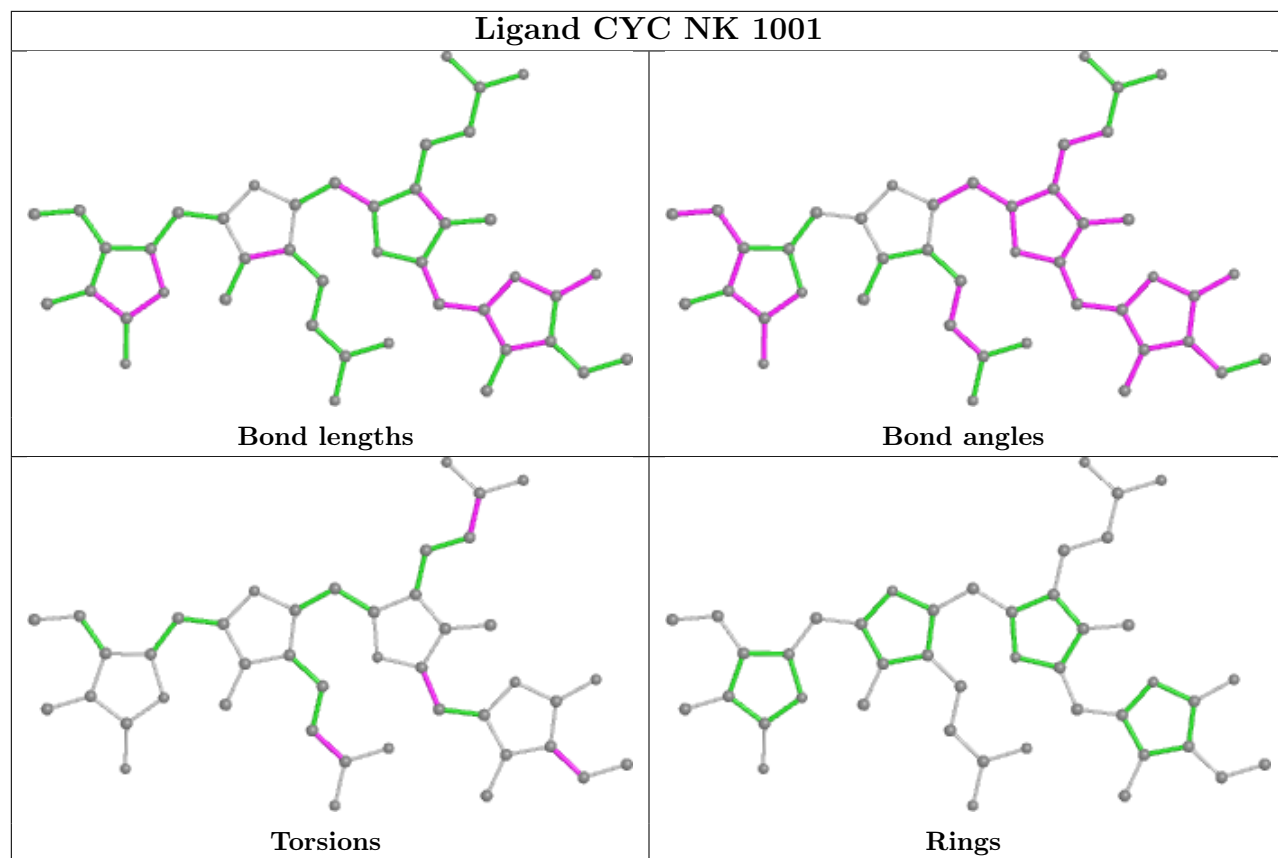


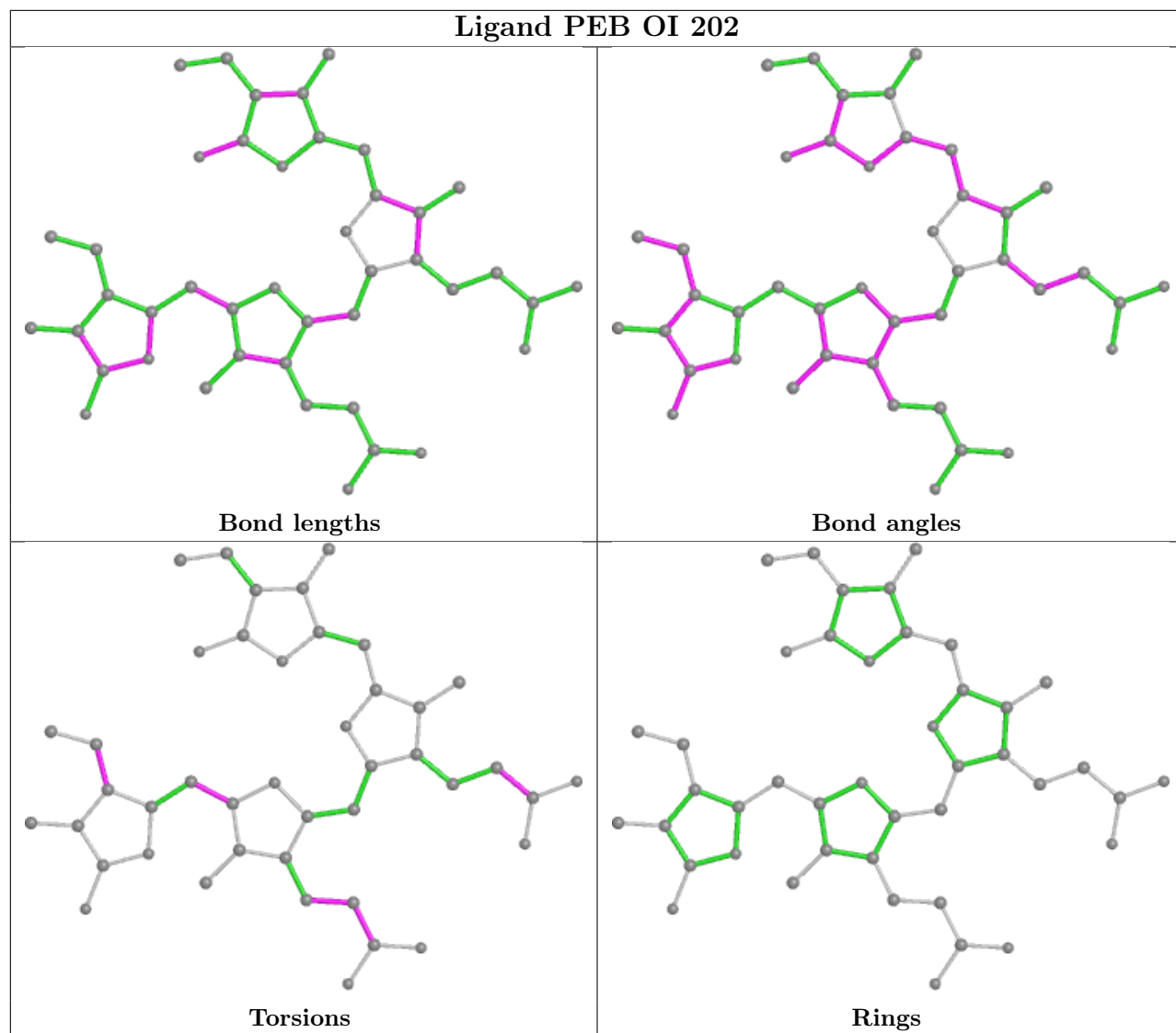
Torsions



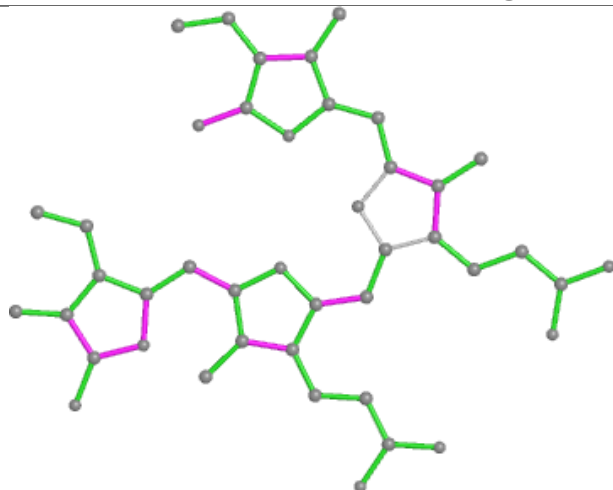
Rings

Ligand CYC NK 1001

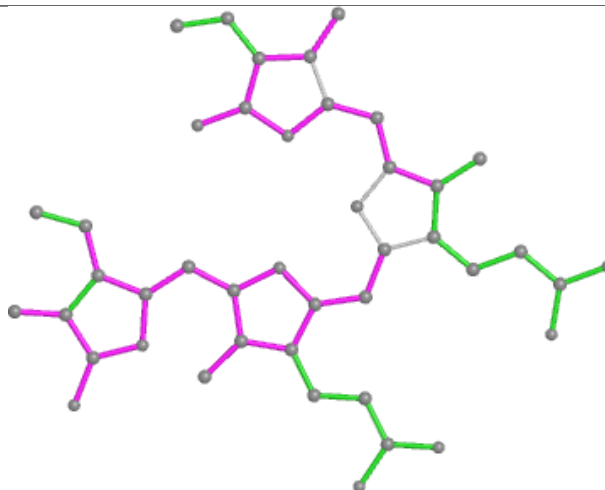




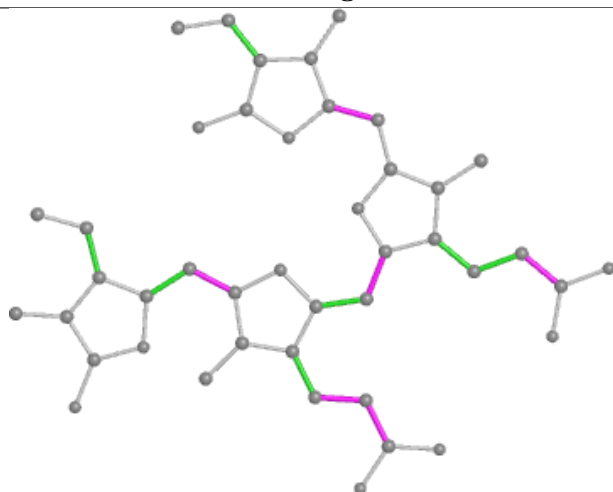
Ligand PEB DD 202



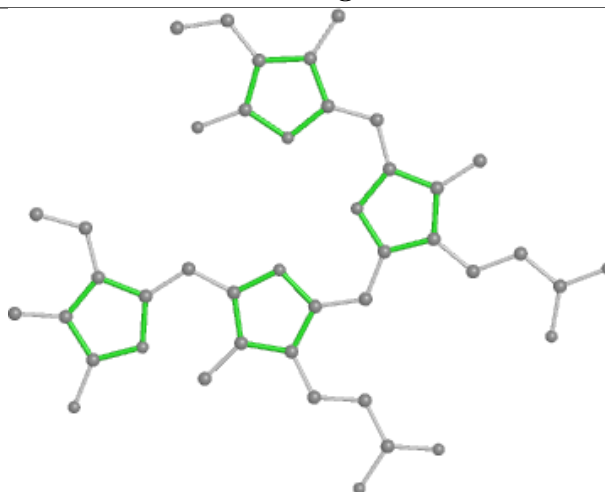
Bond lengths



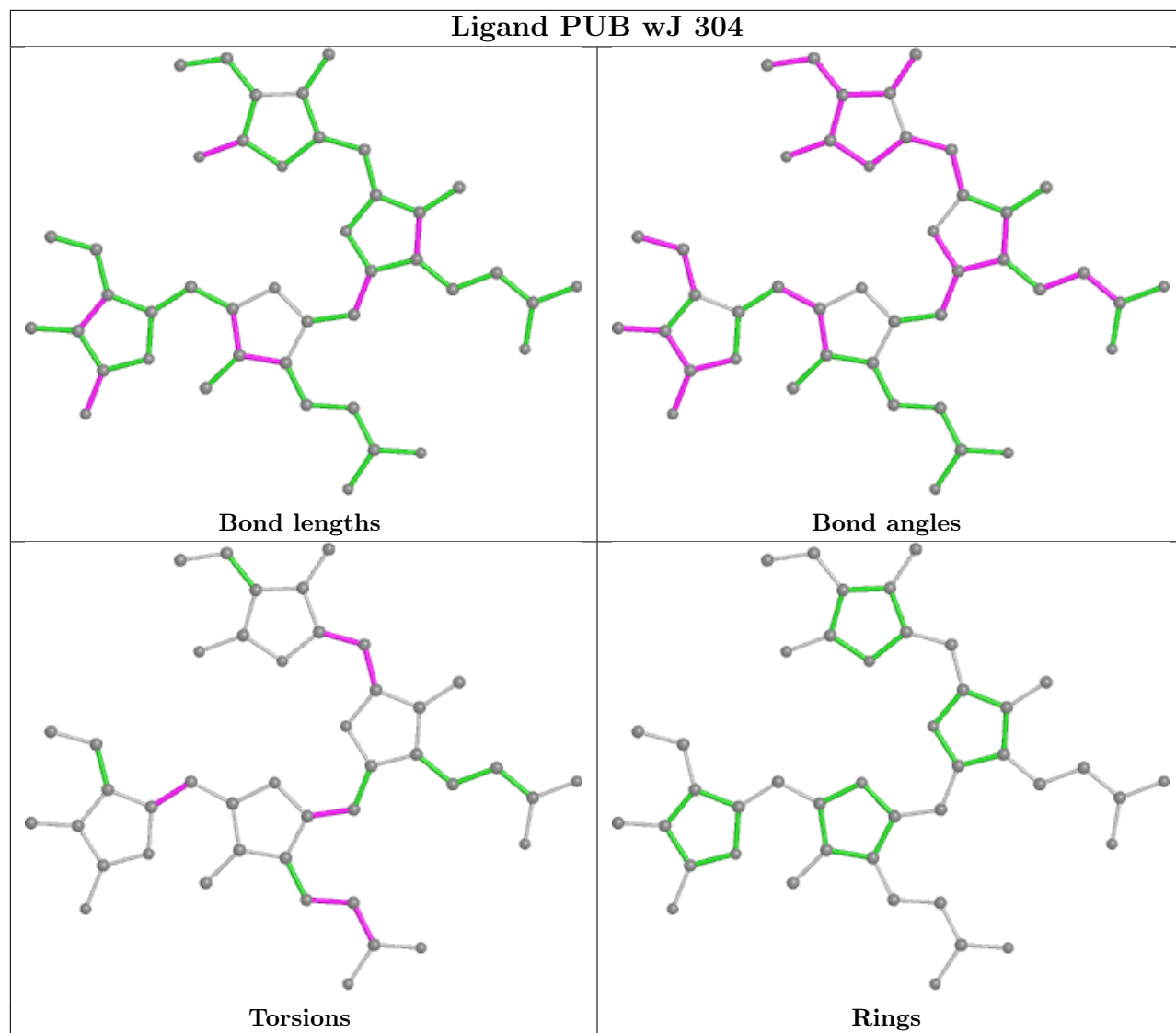
Bond angles

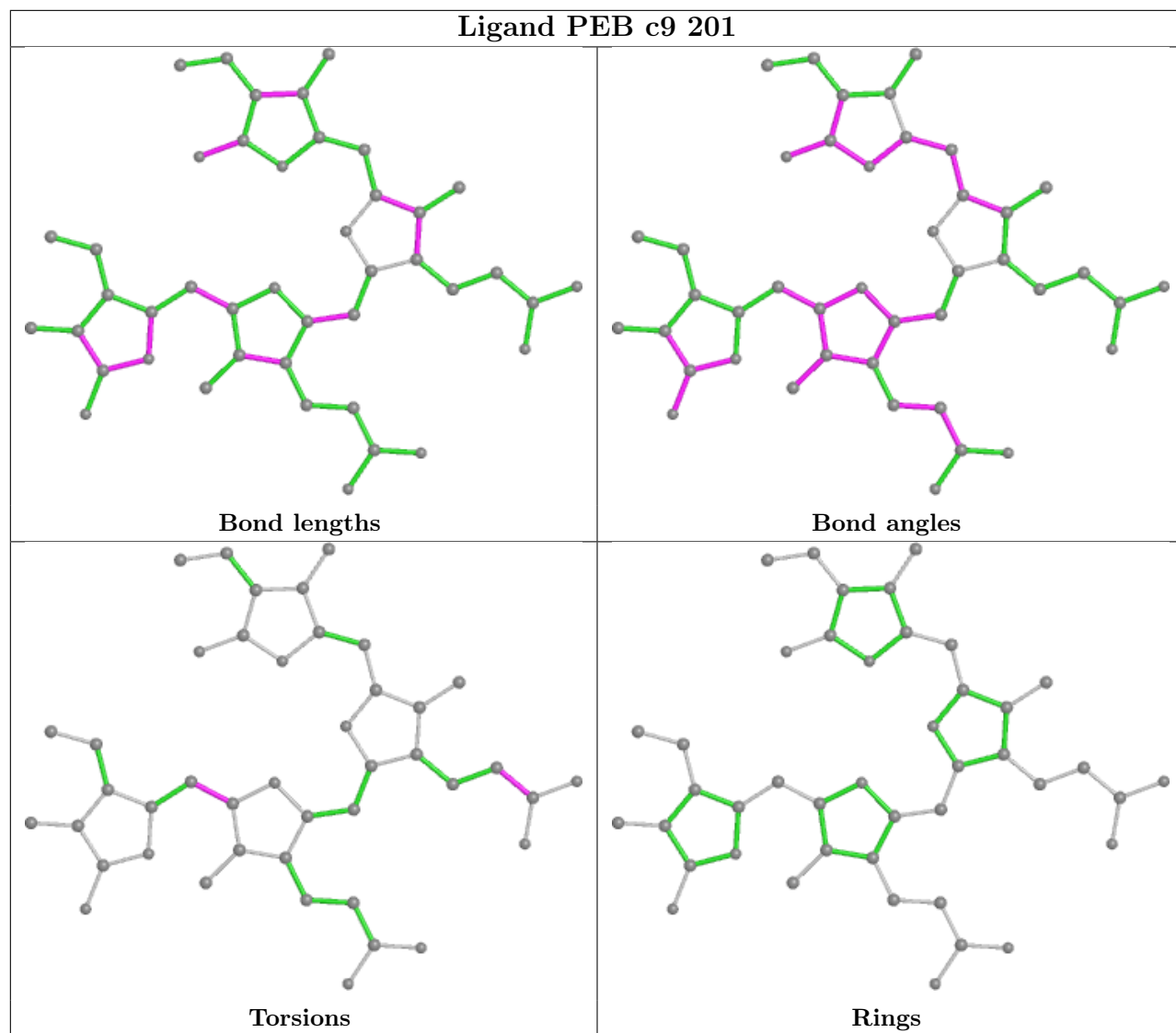


Torsions

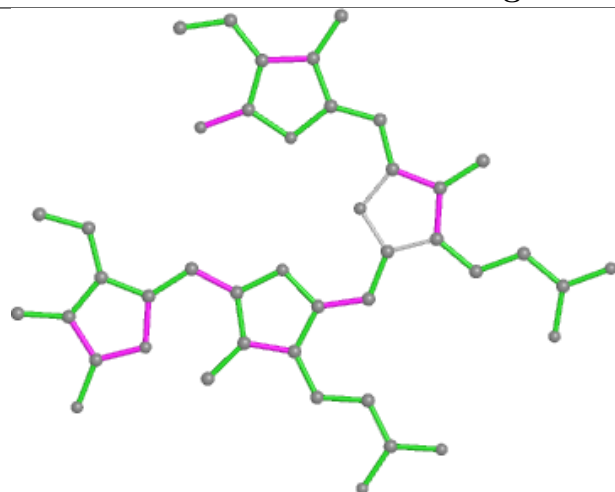


Rings

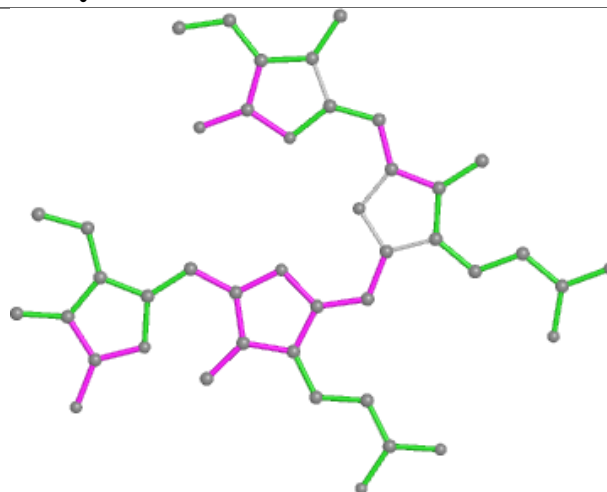




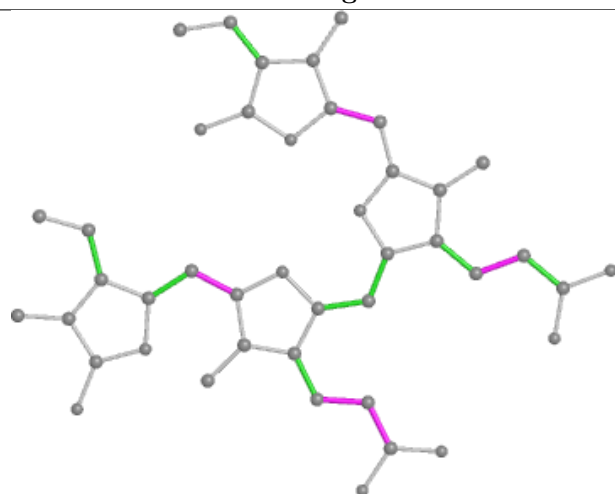
Ligand PEB CQ 201



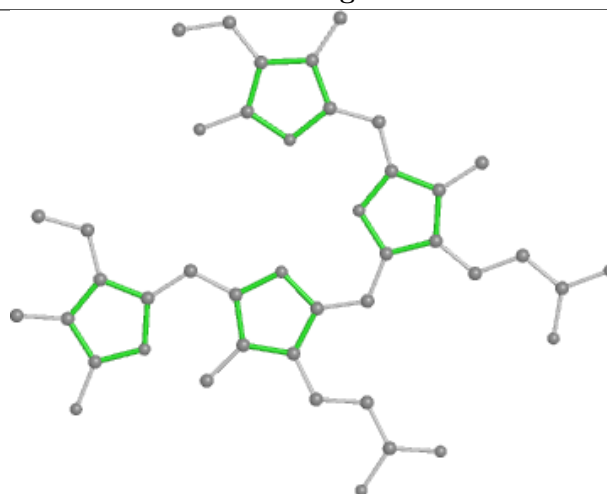
Bond lengths



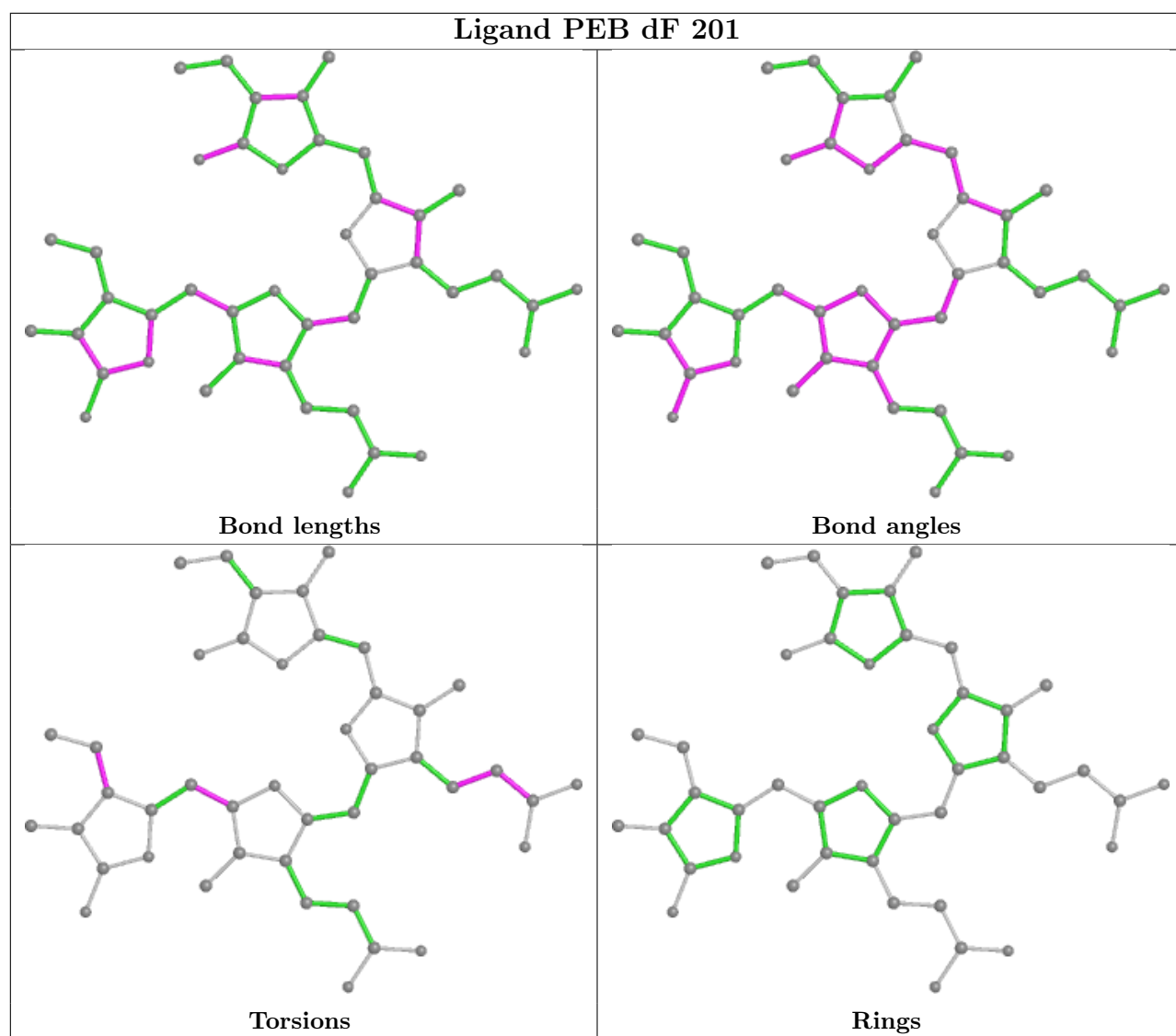
Bond angles



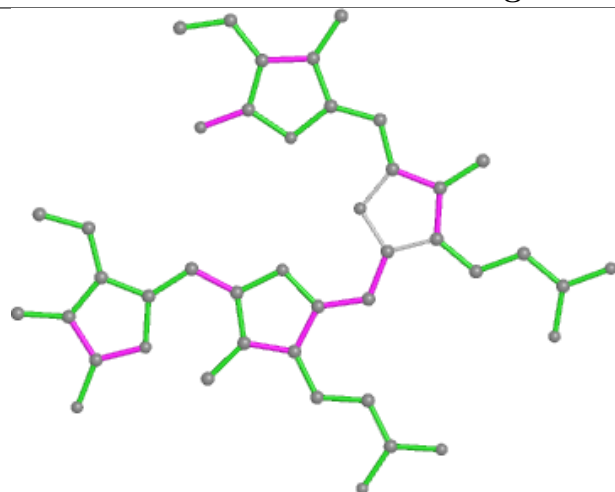
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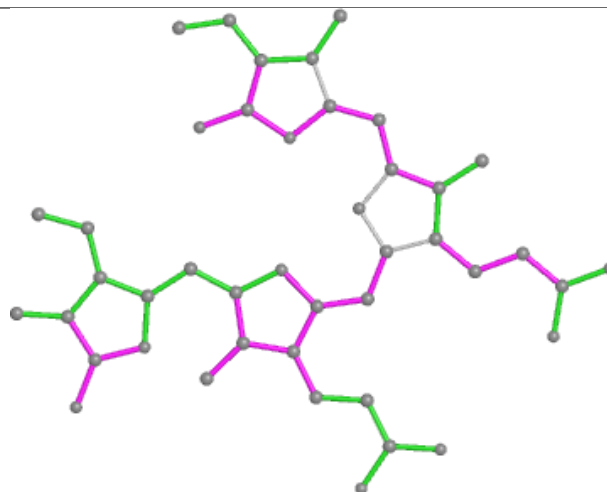
Rings



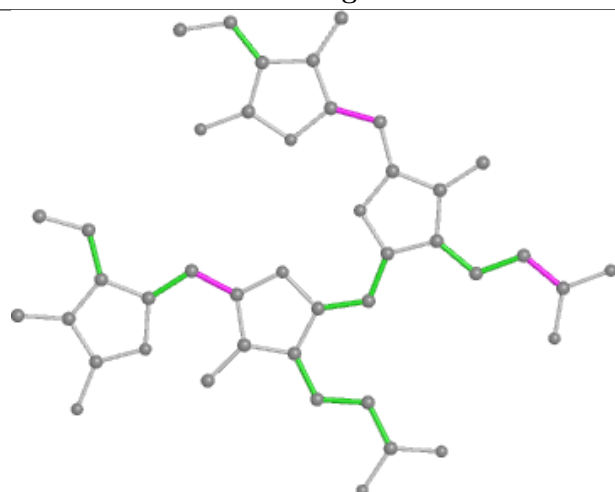
Ligand PEB BC 201



Bond lengths



Bond angles

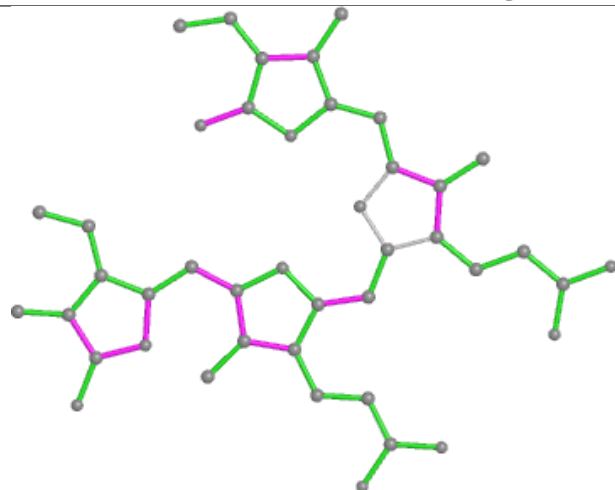


Torsions

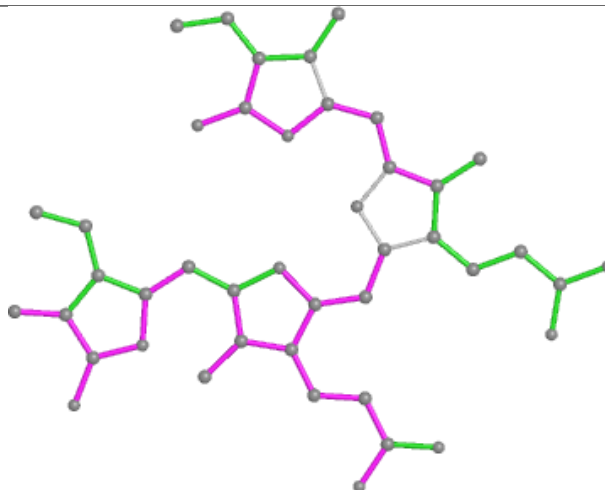


Rings

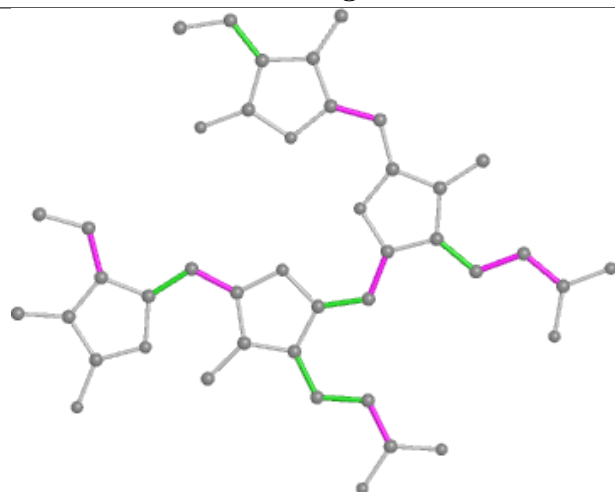
Ligand PEB PM 202



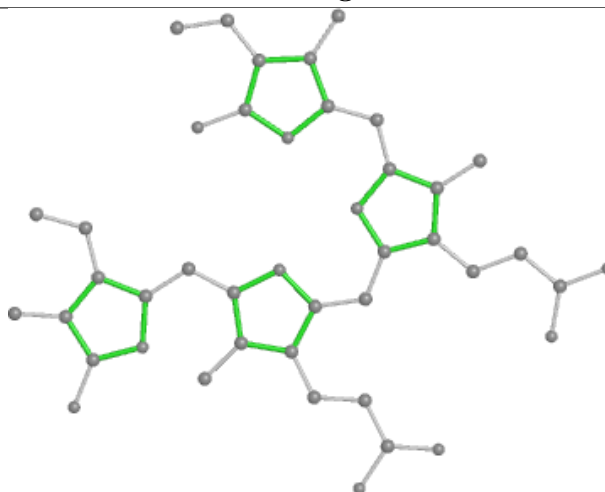
Bond lengths



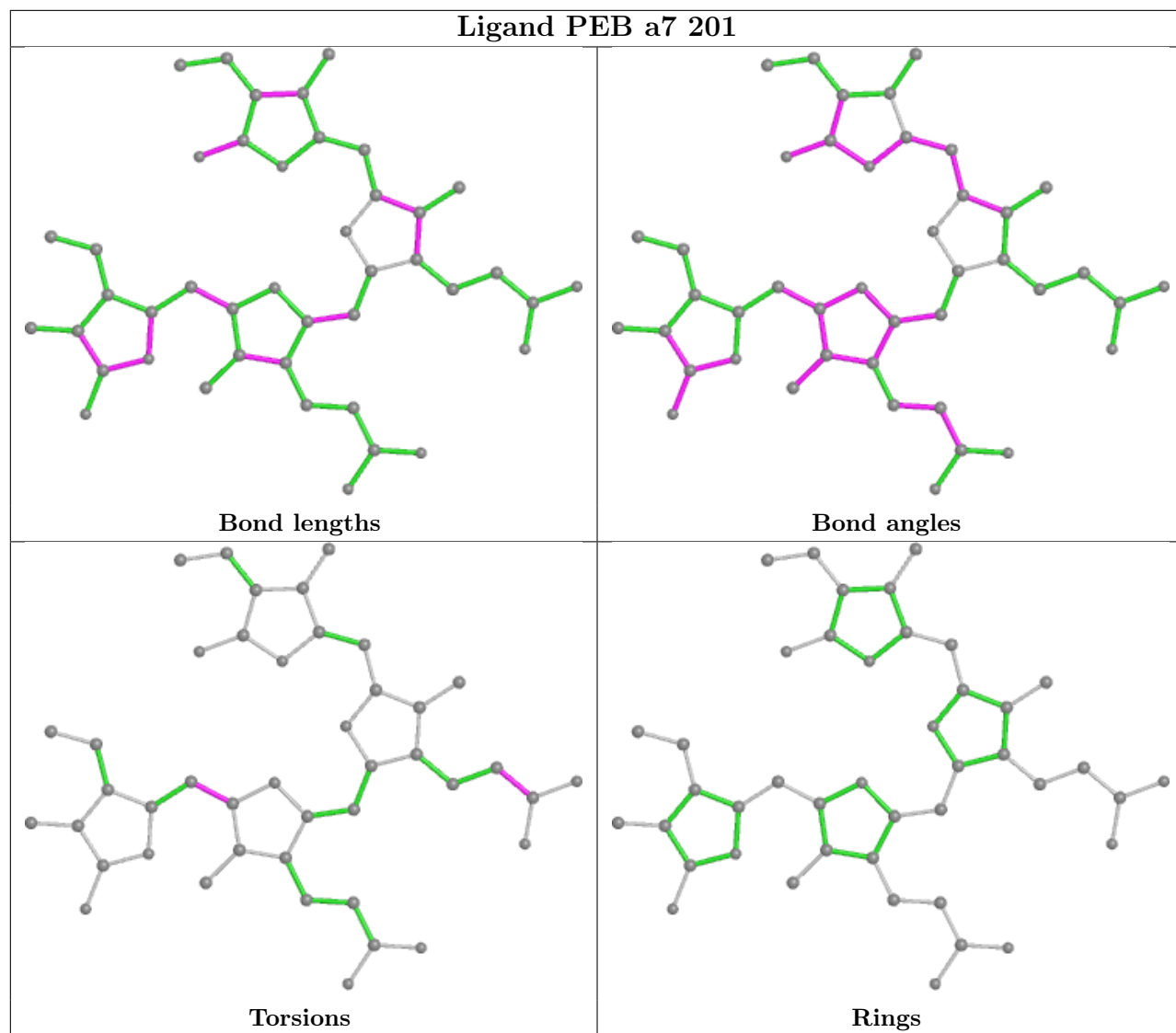
Bond angles

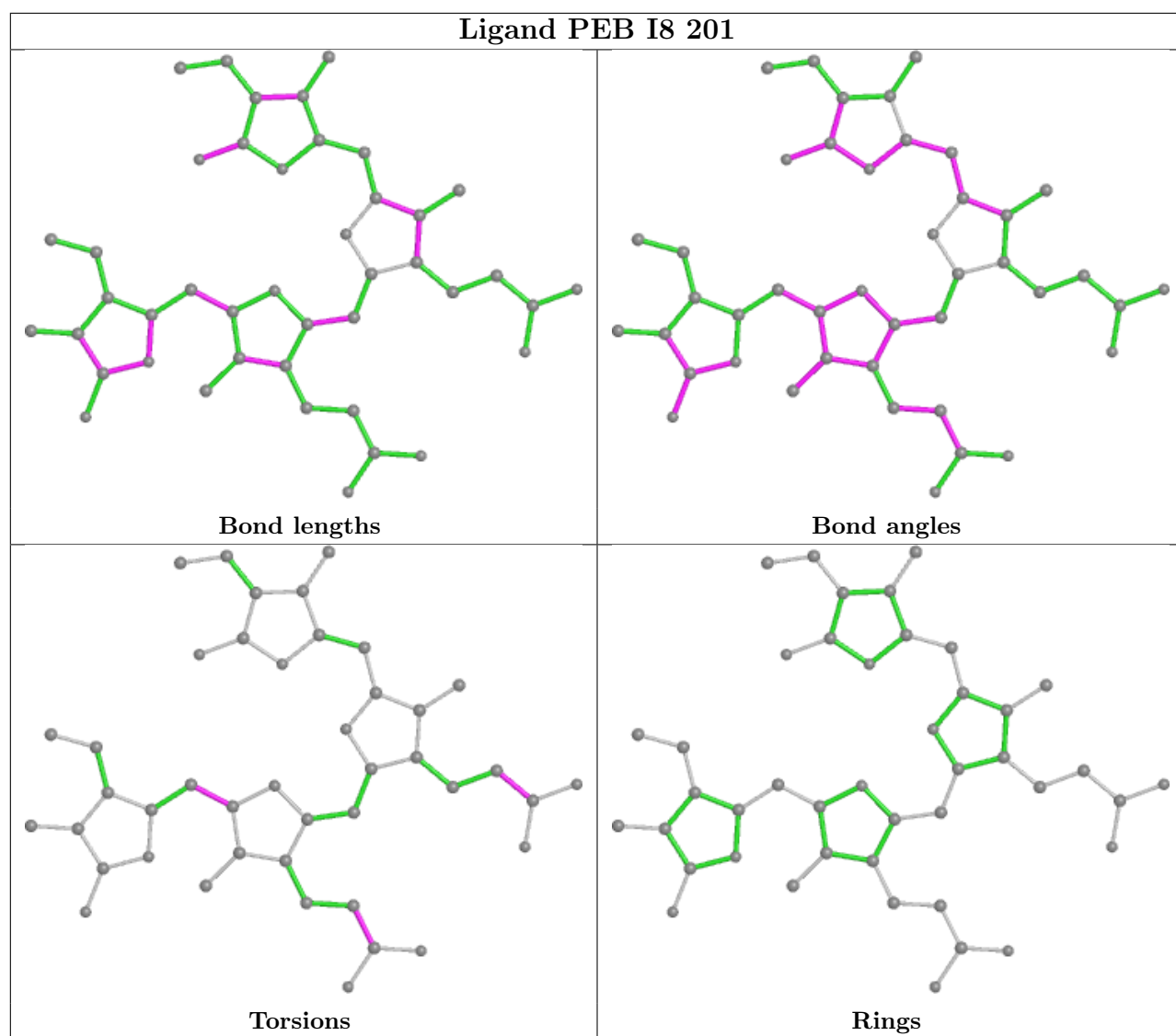


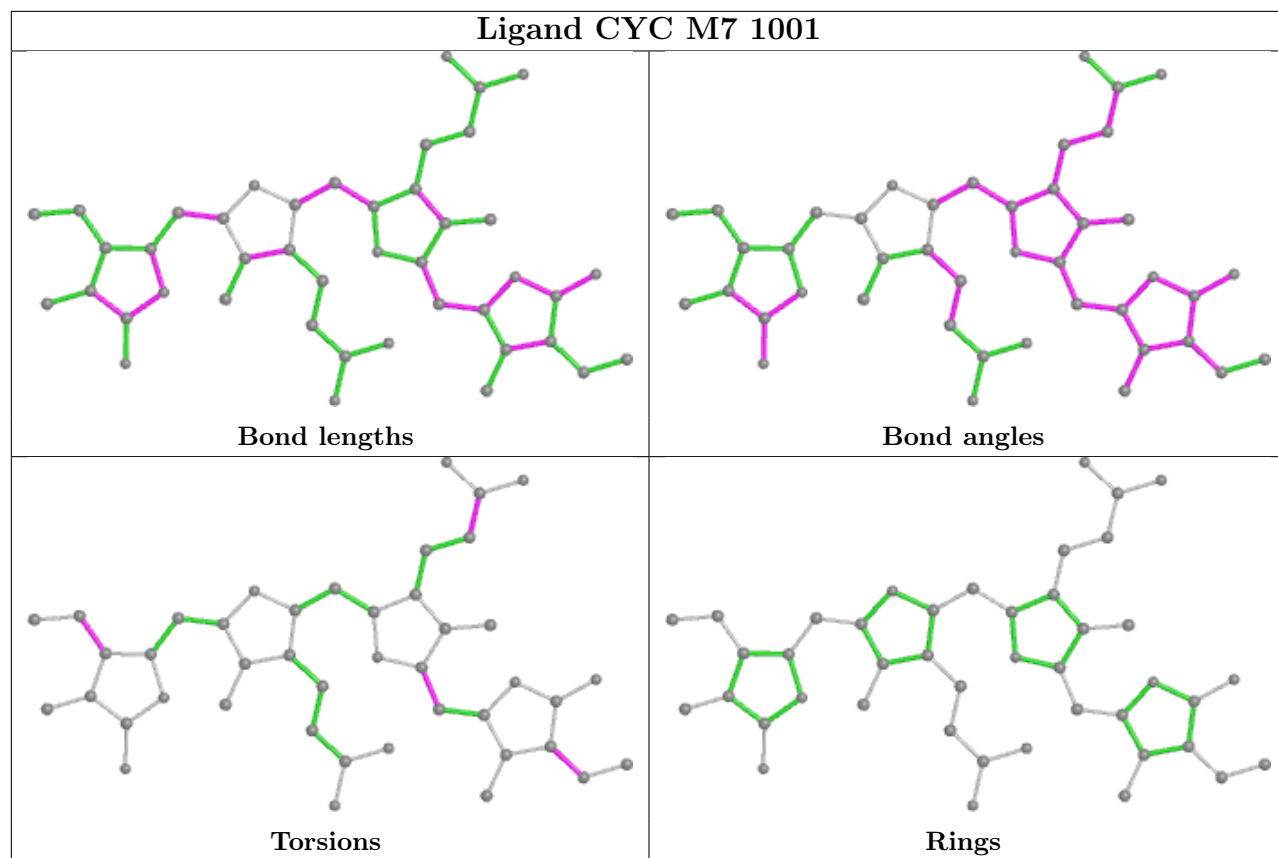
Torsions



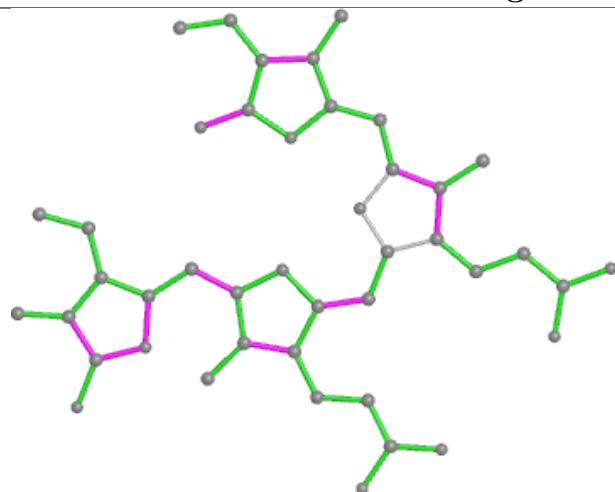
Rings



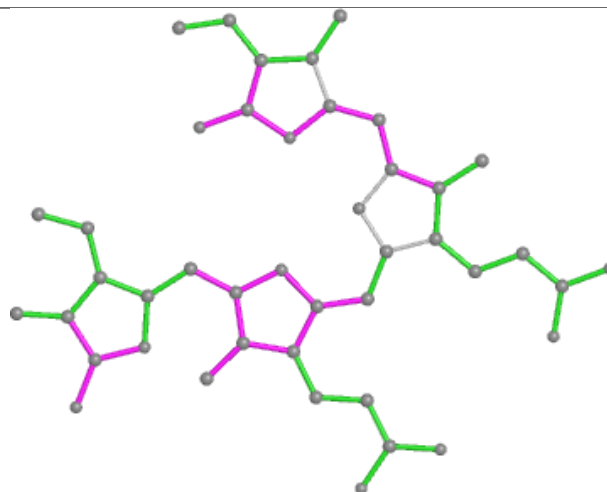




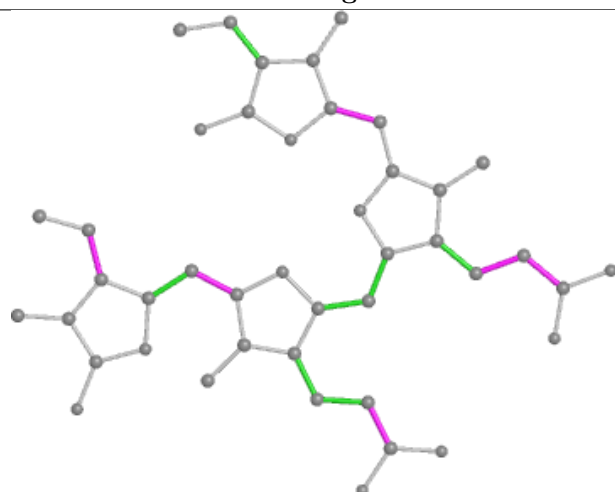
Ligand PEB H8 202



Bond lengths



Bond angles

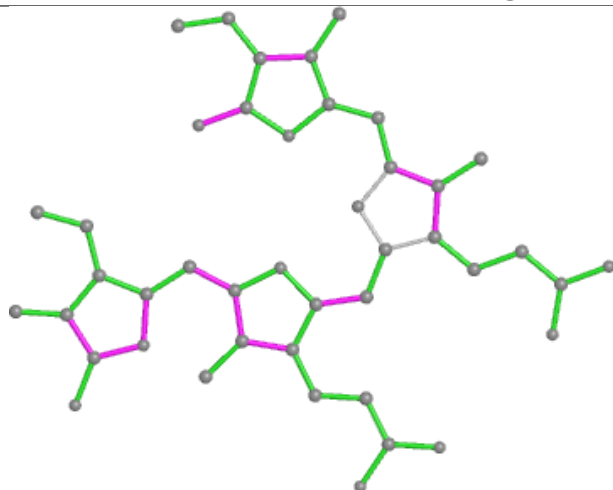


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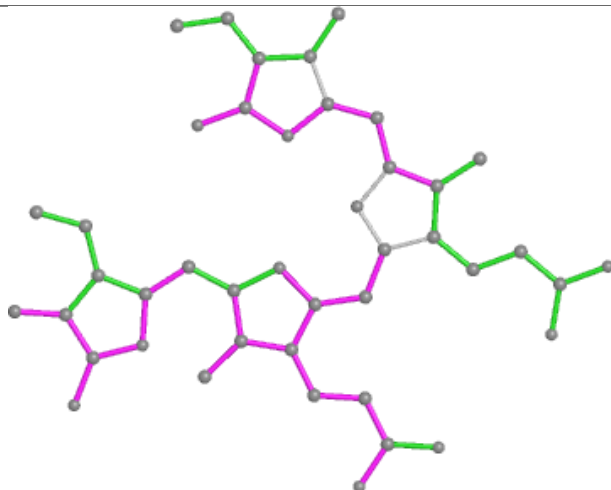


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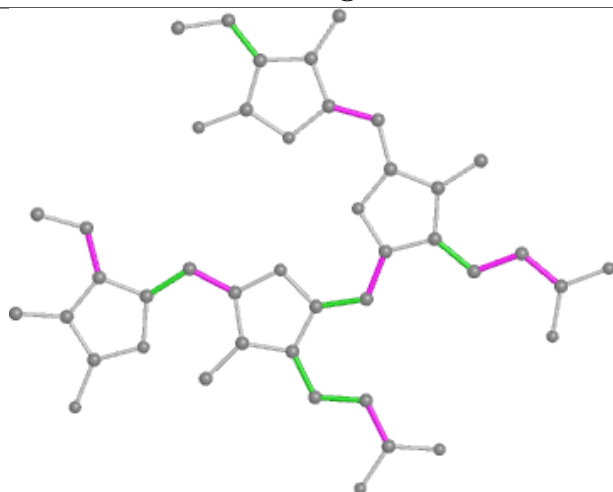
Ligand PEB DB 203



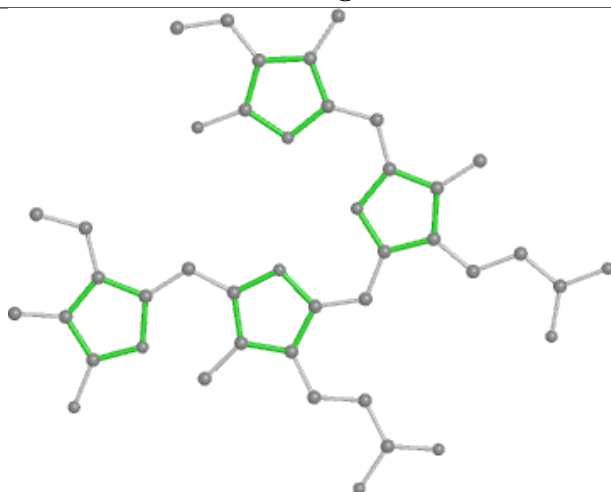
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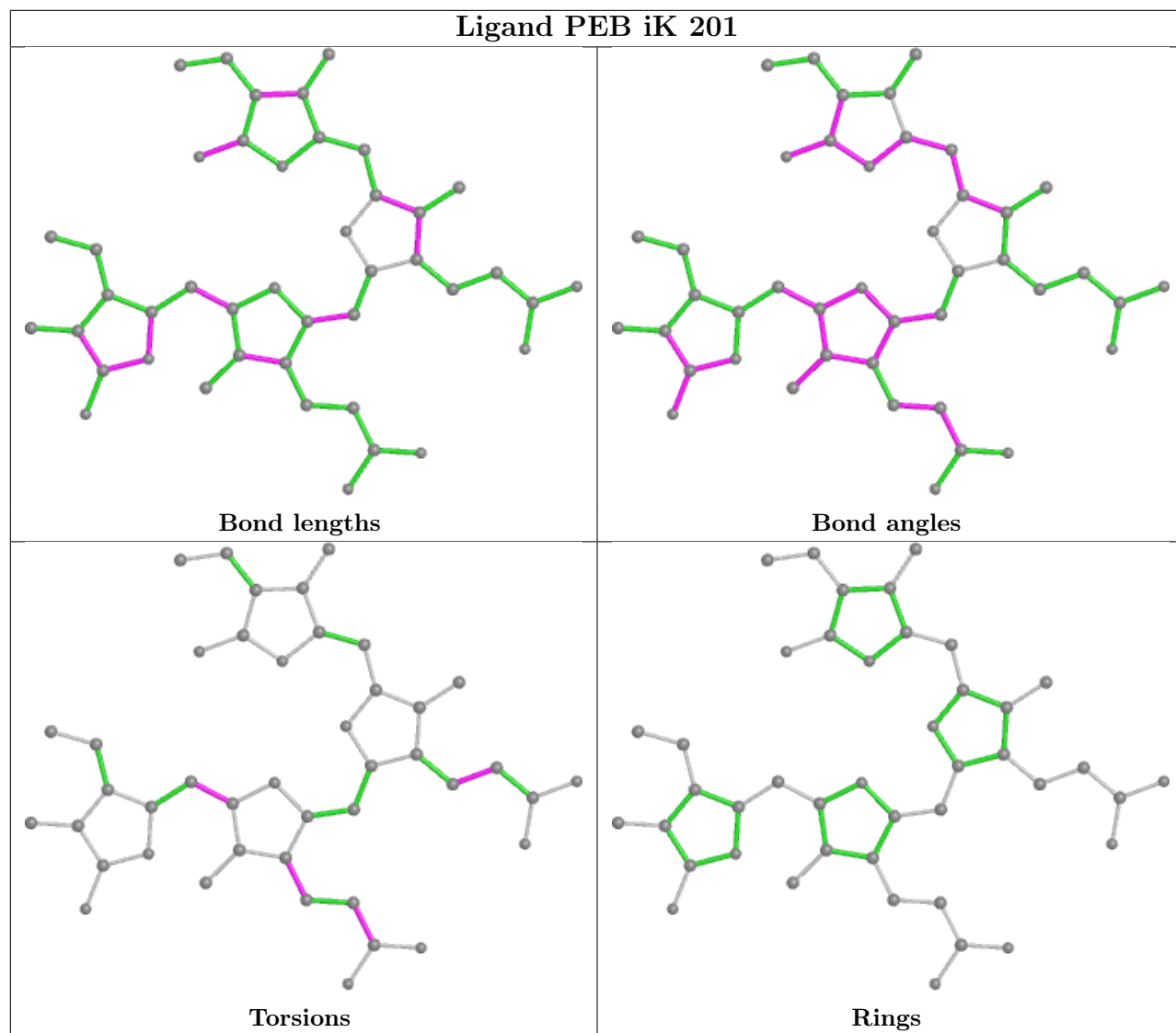
Bond angles



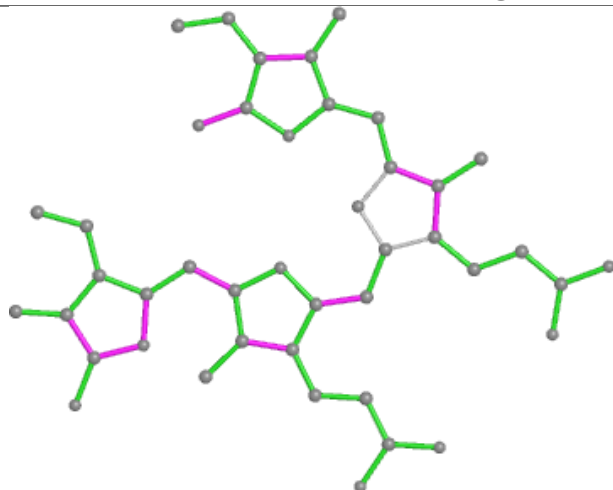
Torsions



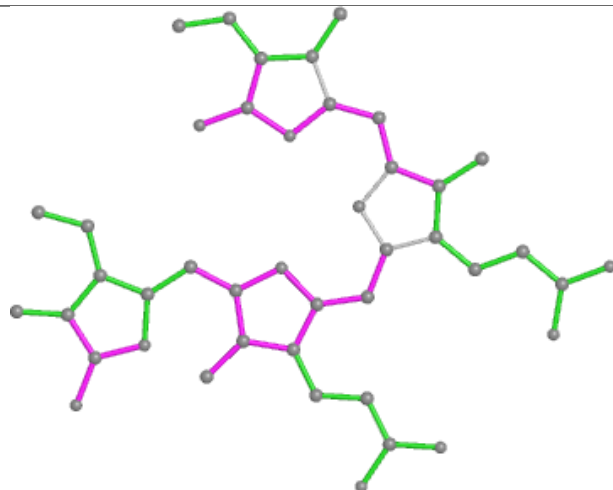
Rings



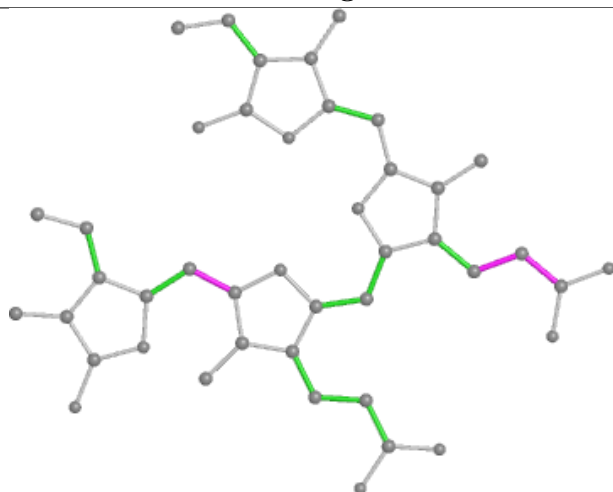
Ligand PEB WM 201



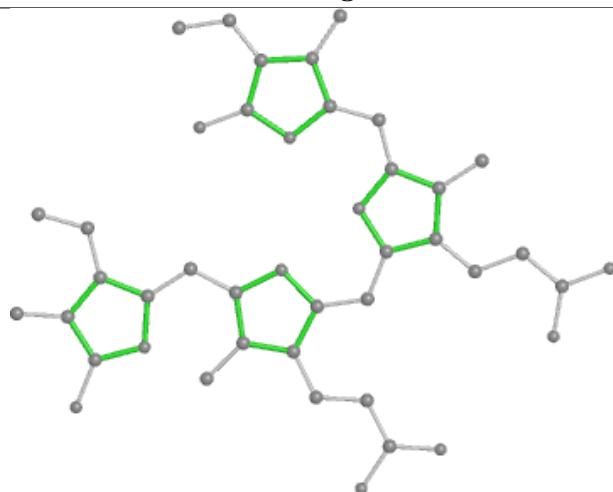
Bond lengths



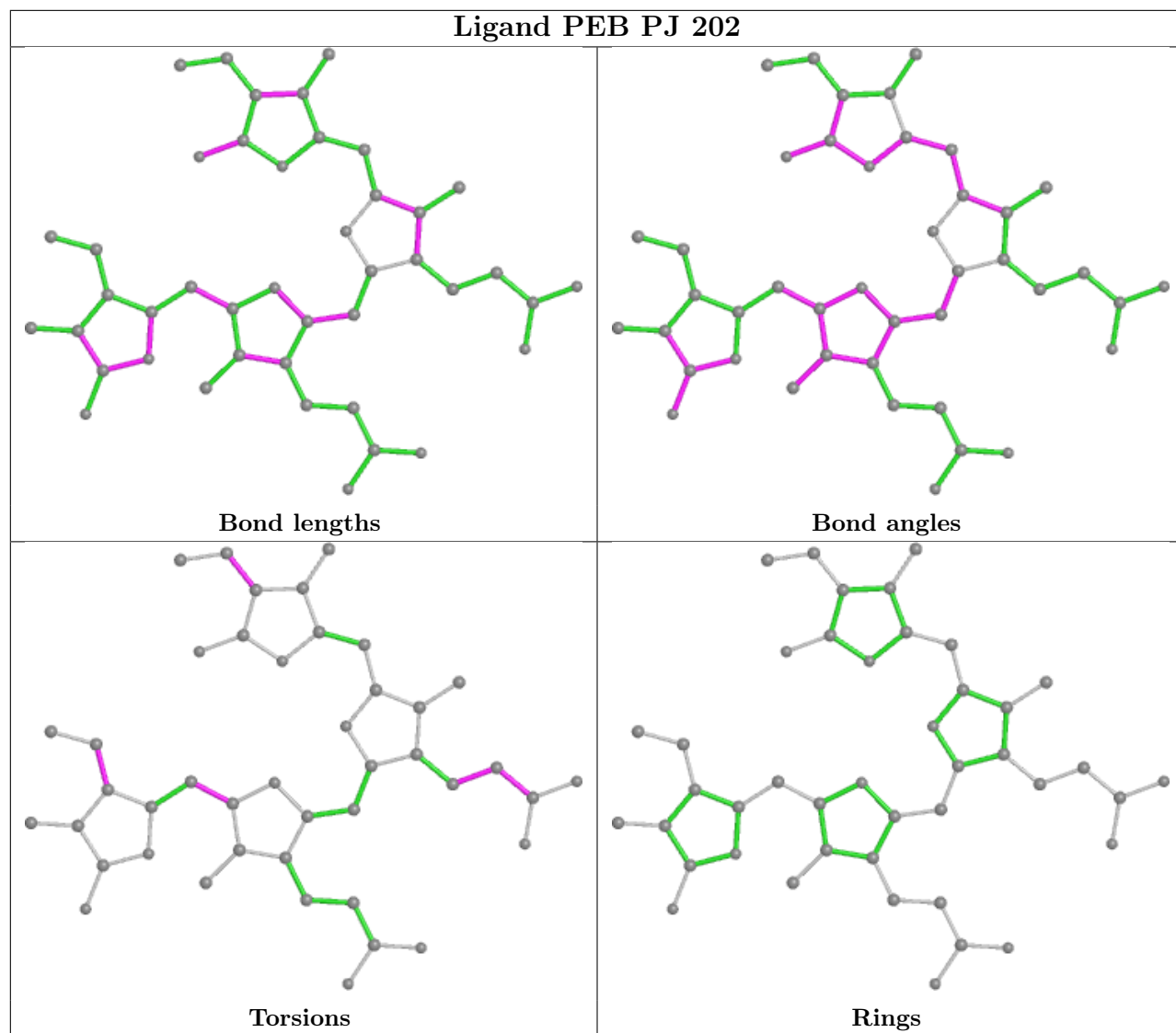
Bond angles



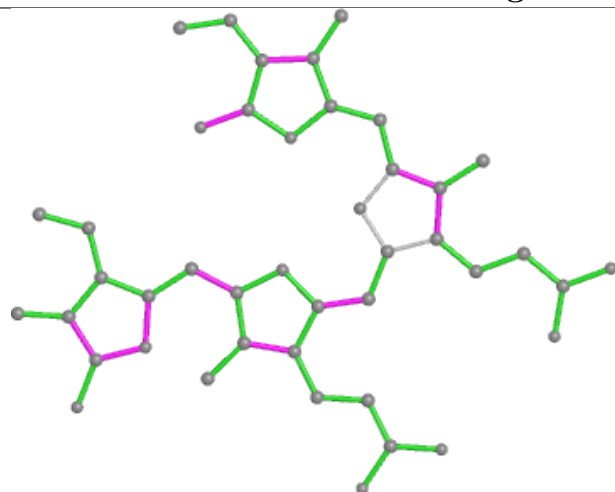
Torsions



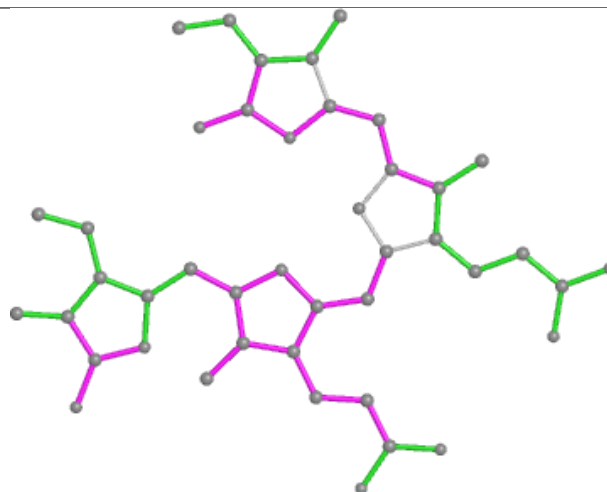
Rings



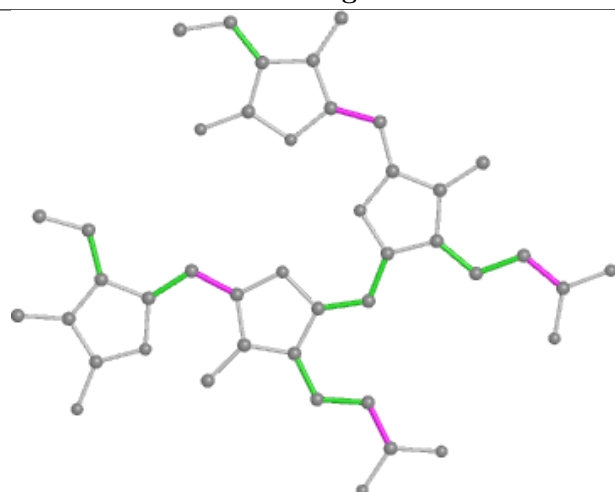
Ligand PEB H8 201



Bond lengths



Bond angles

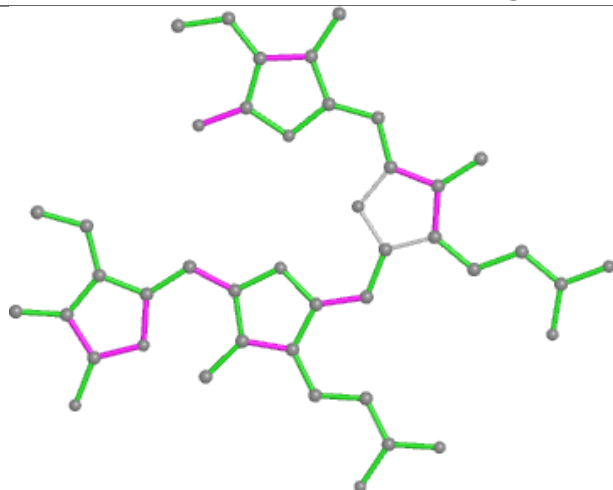


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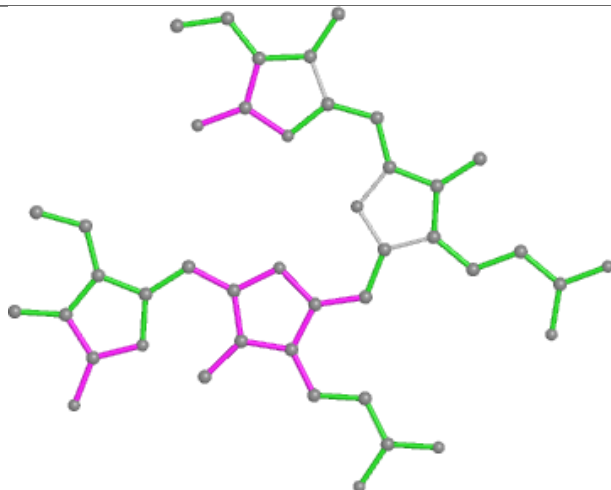


Rings

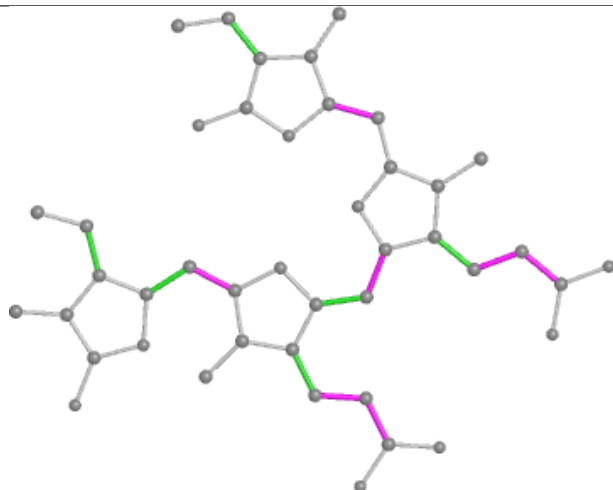
Ligand PEB G5 203



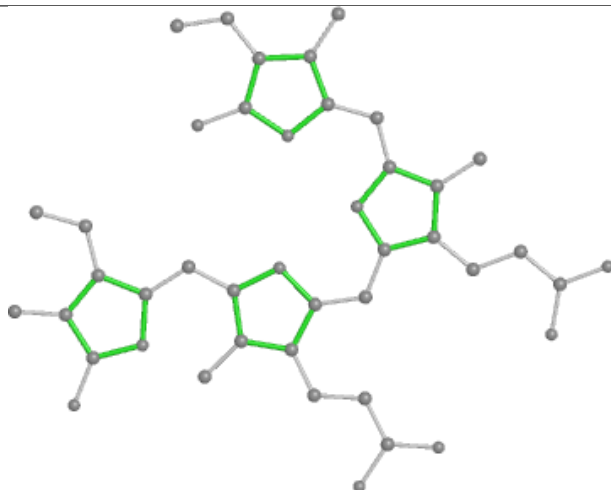
Bond lengths



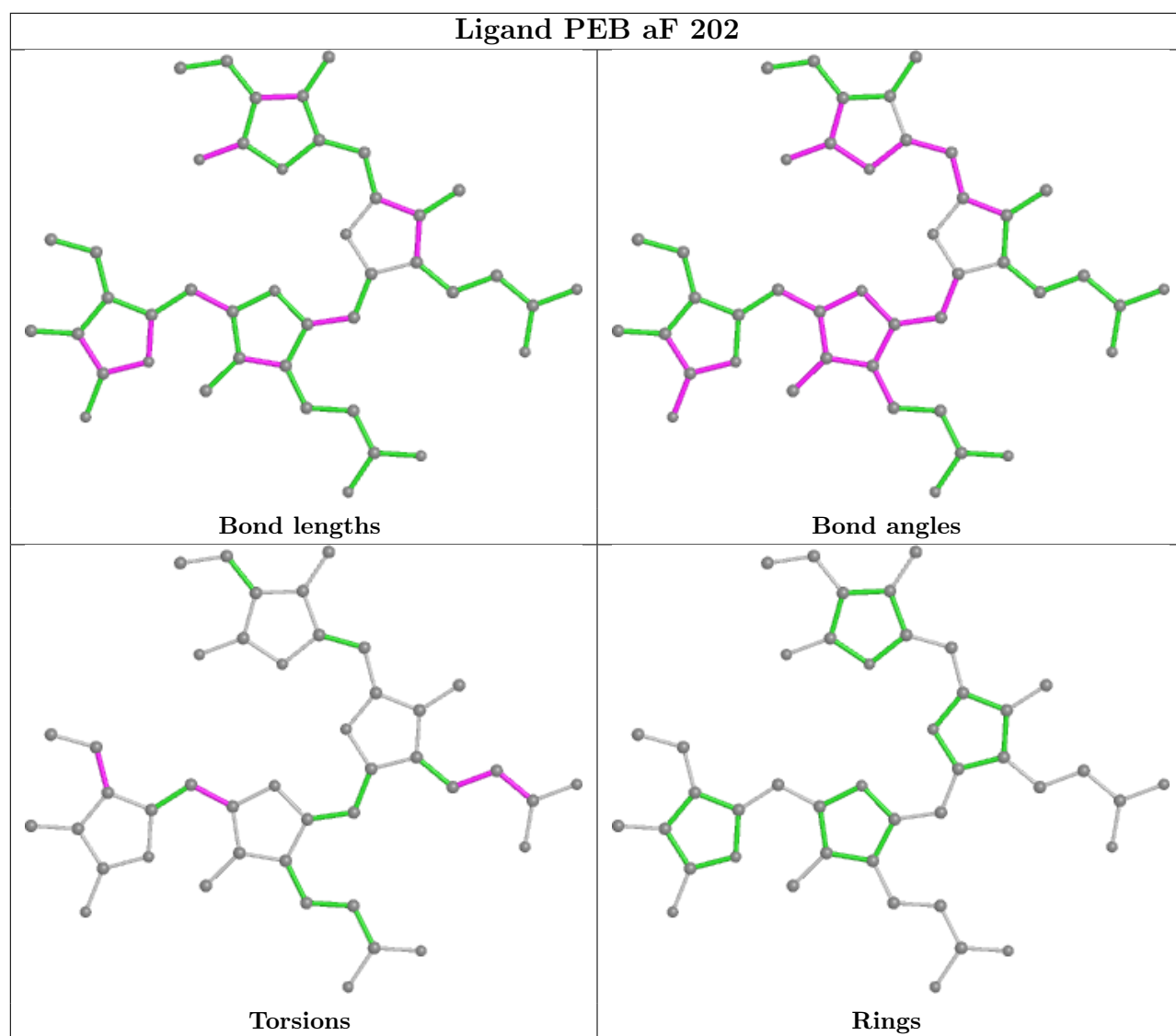
Bond angles



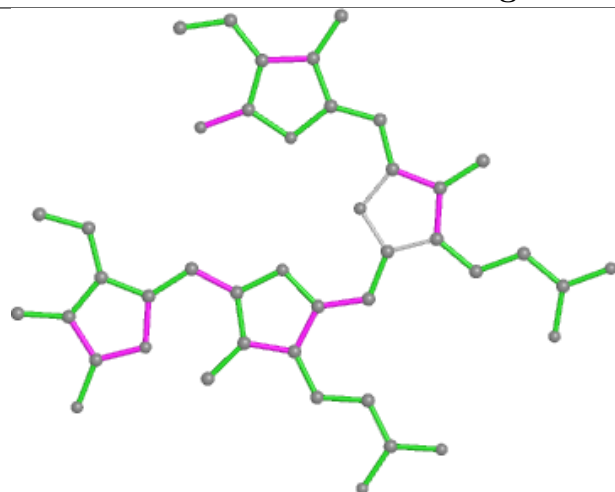
Torsions



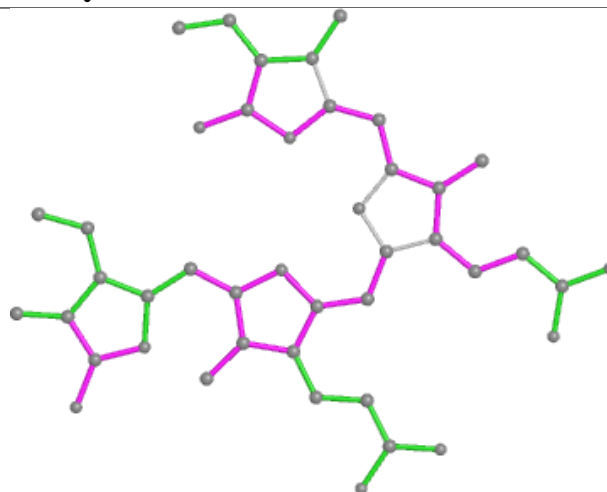
Rings



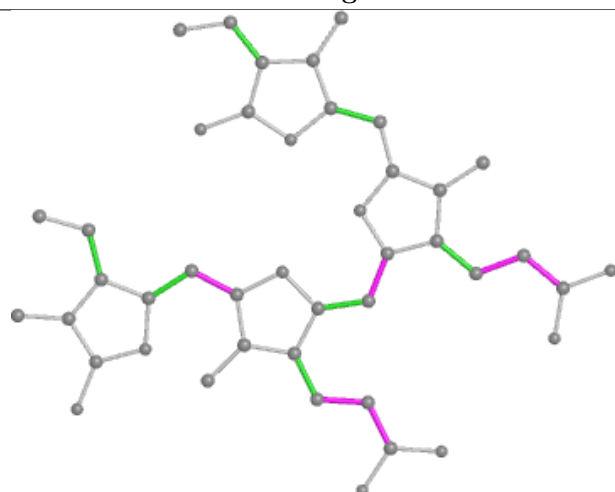
Ligand PEB MQ 401



Bond lengths



Bond angles

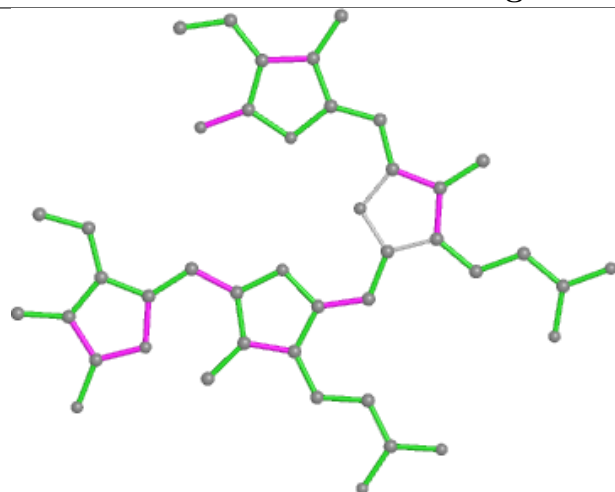


Torsions

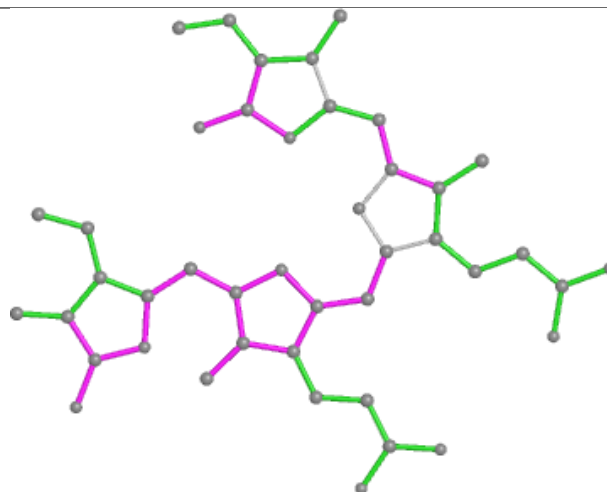


Rings

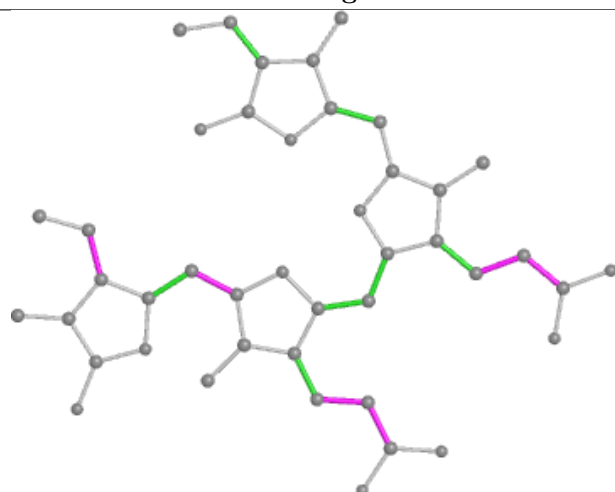
Ligand PEB hK 202



Bond lengths



Bond angles

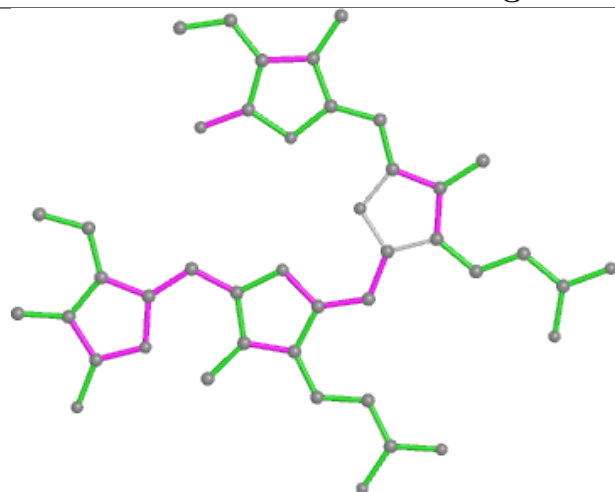


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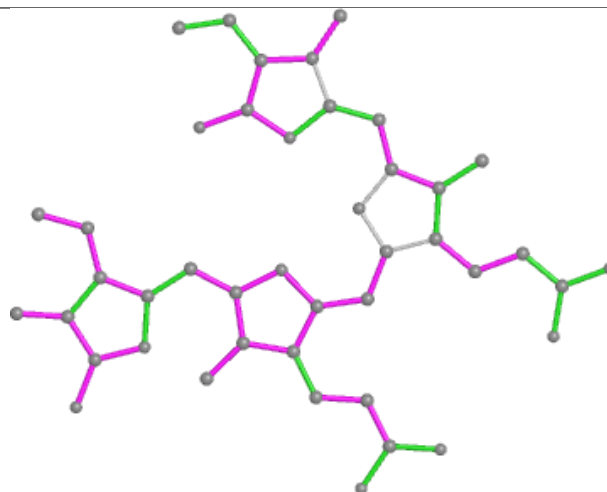


Rings

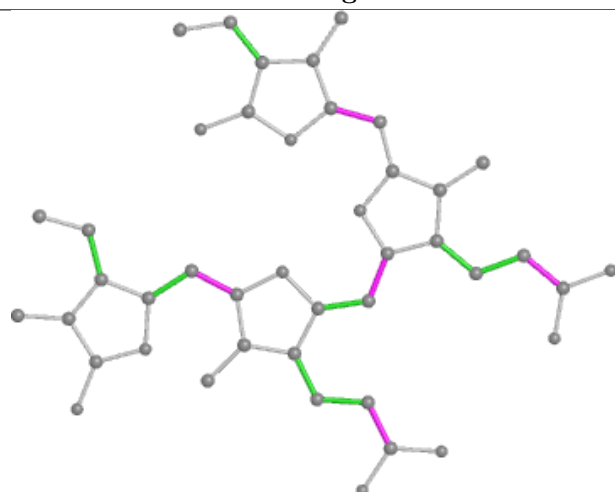
Ligand PEB BD 201



Bond lengths



Bond angles

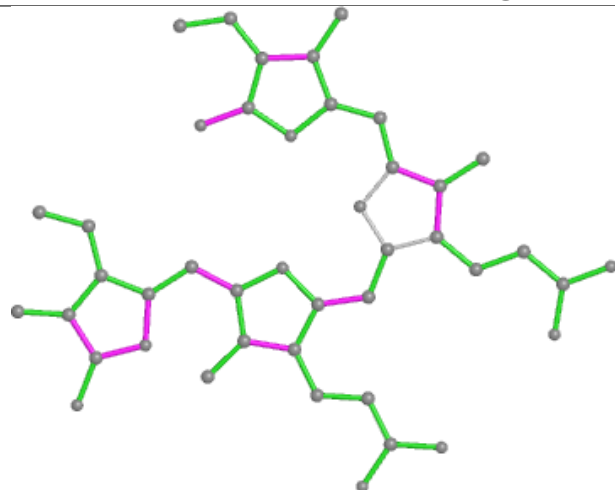


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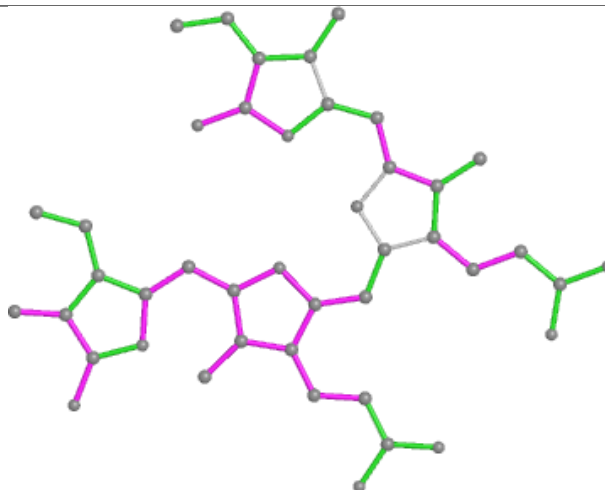


Rings

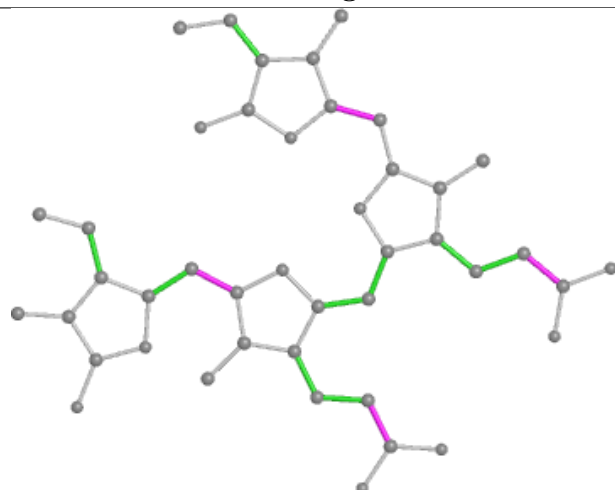
Ligand PEB WK 201



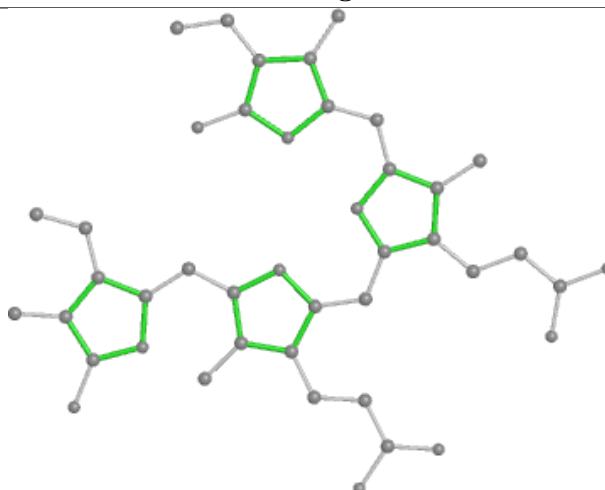
Bond lengths



Bond angles

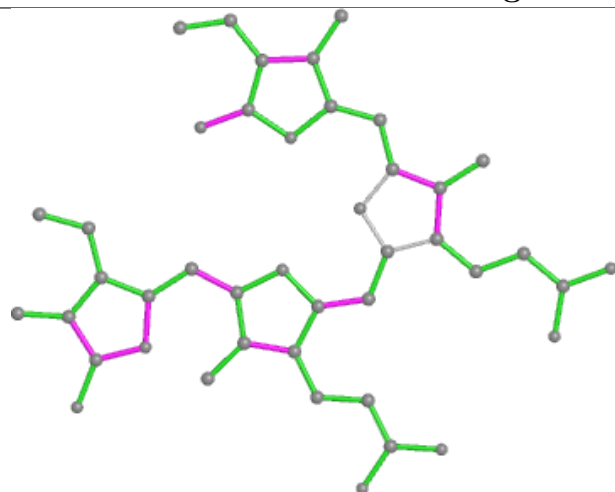


Torsions

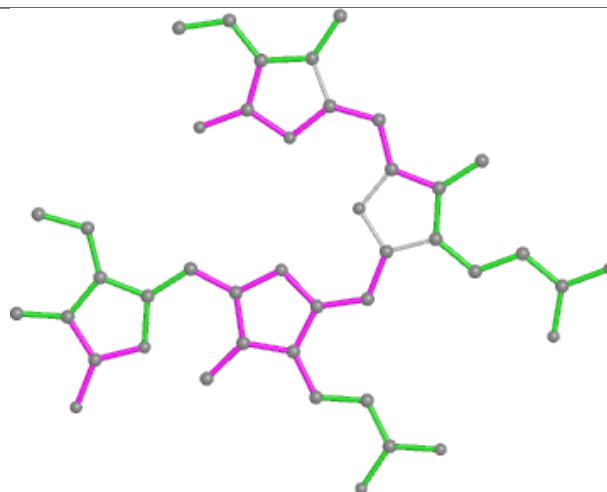


Rings

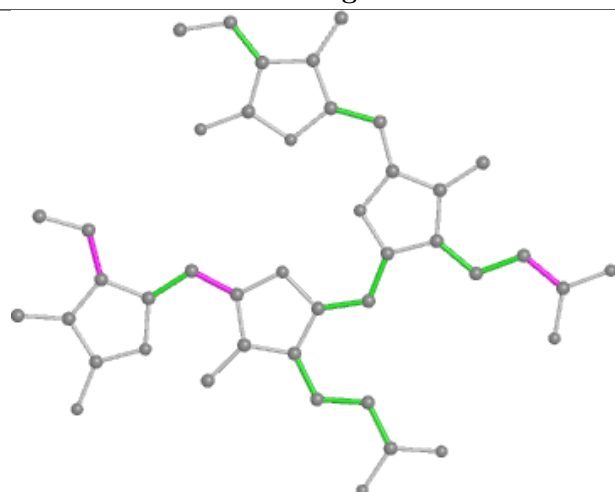
Ligand PEB YB 201



Bond lengths



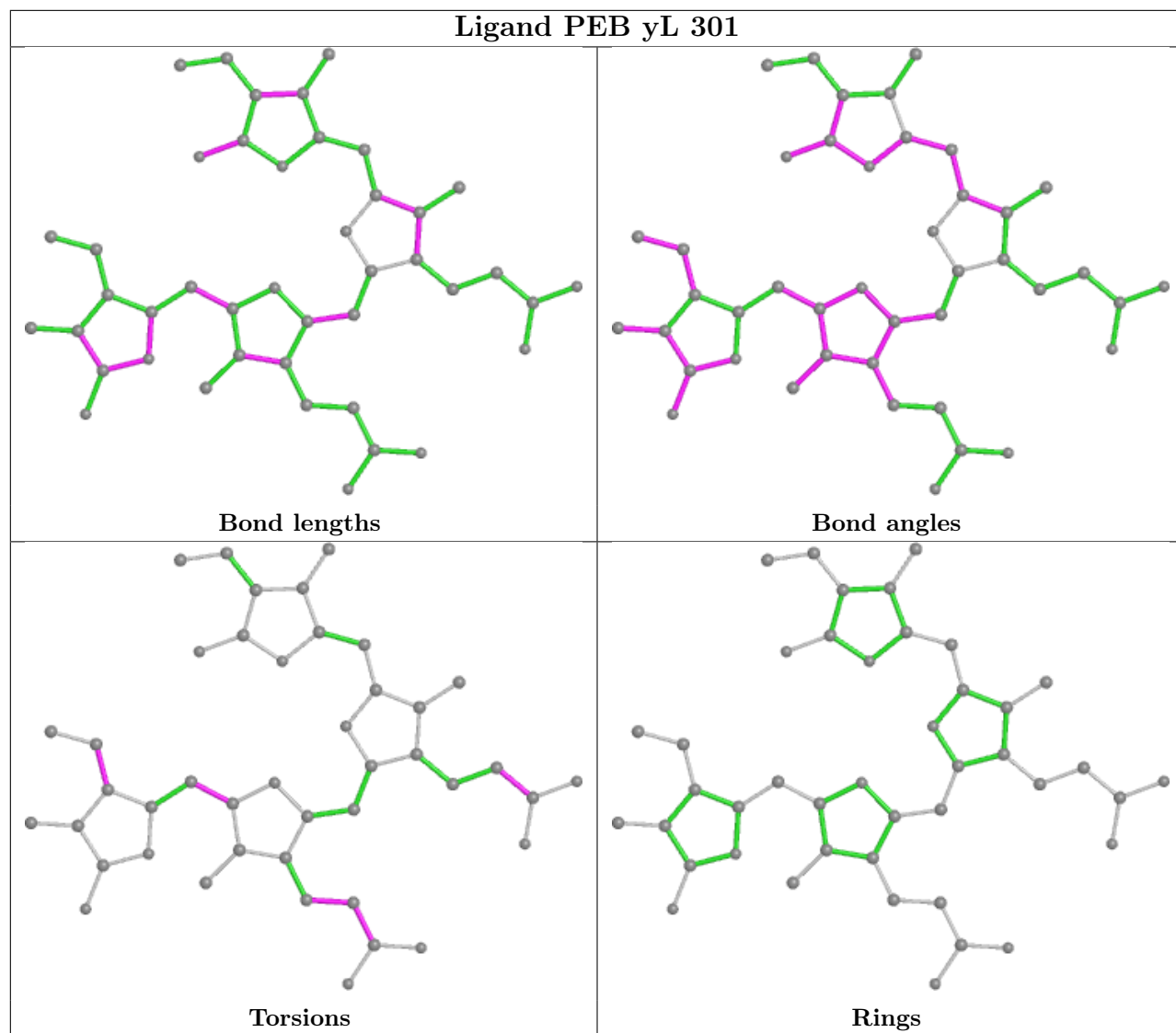
Bond angles

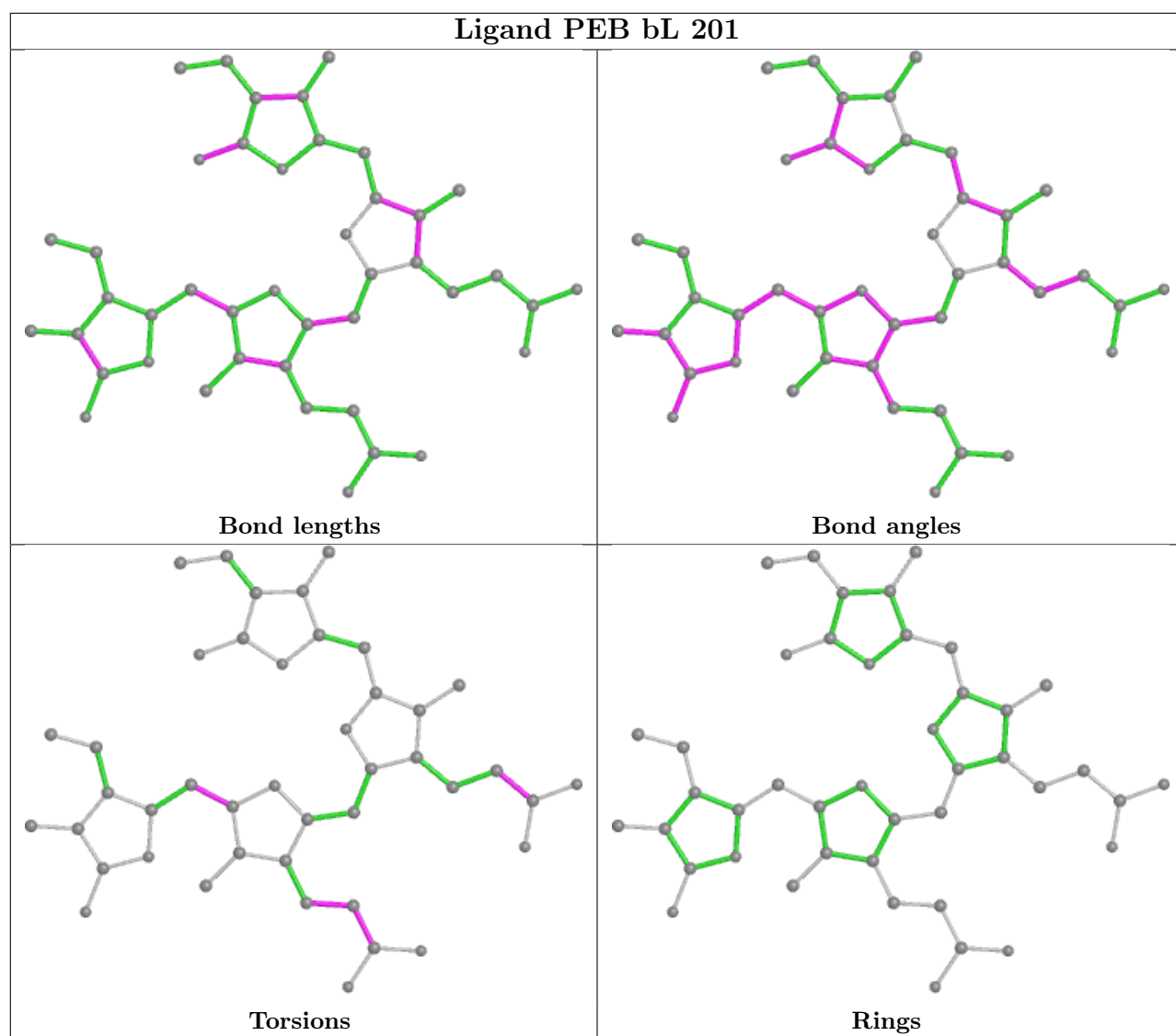


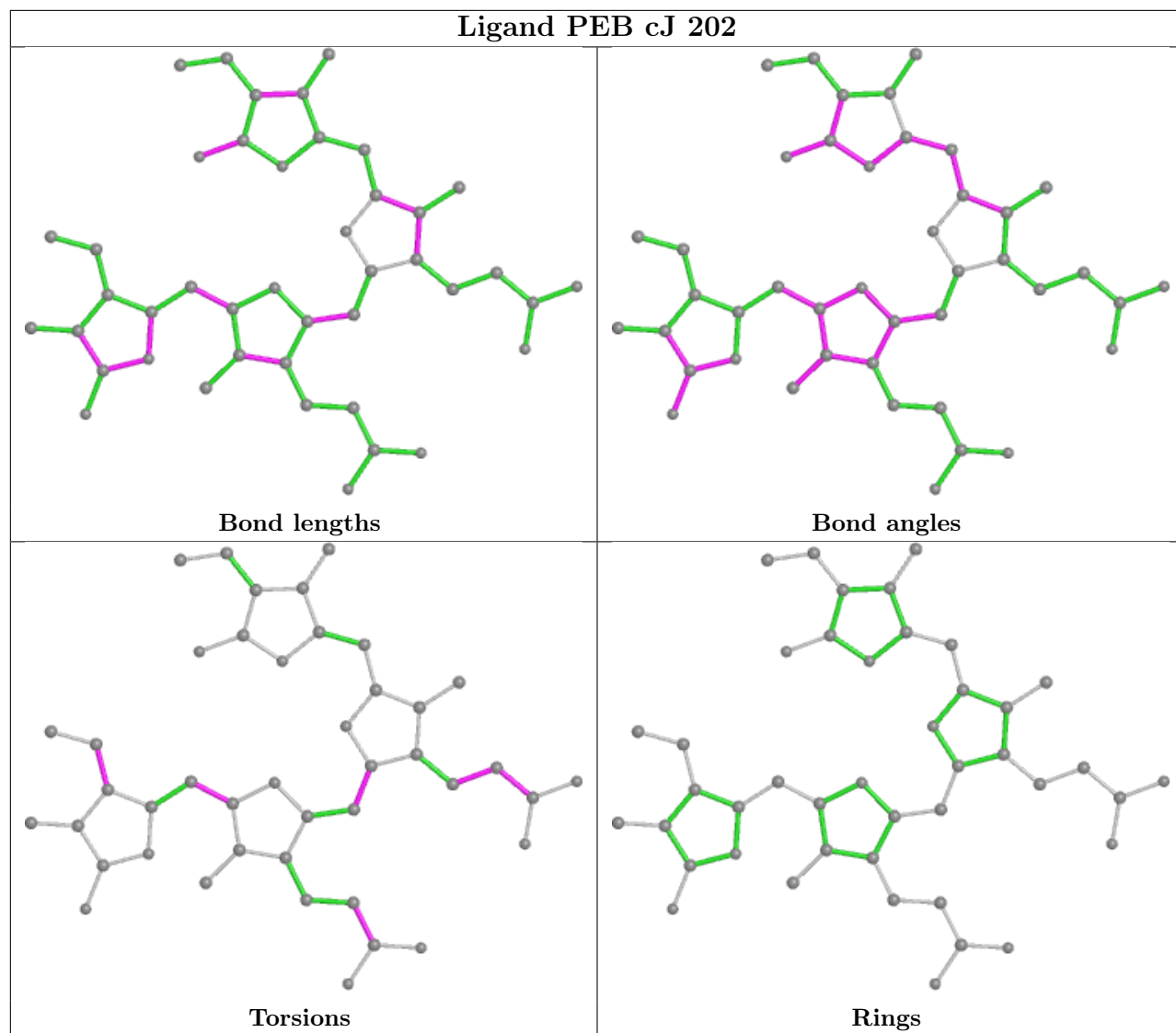
Torsions



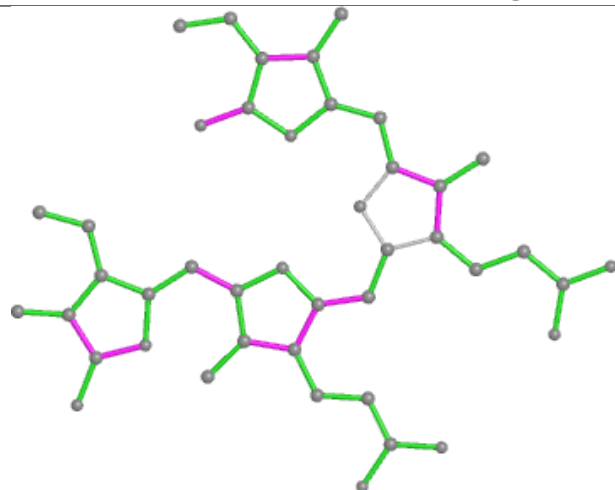
Rings



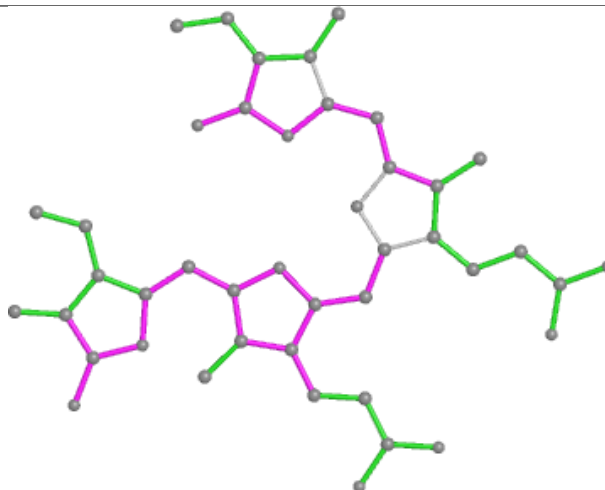




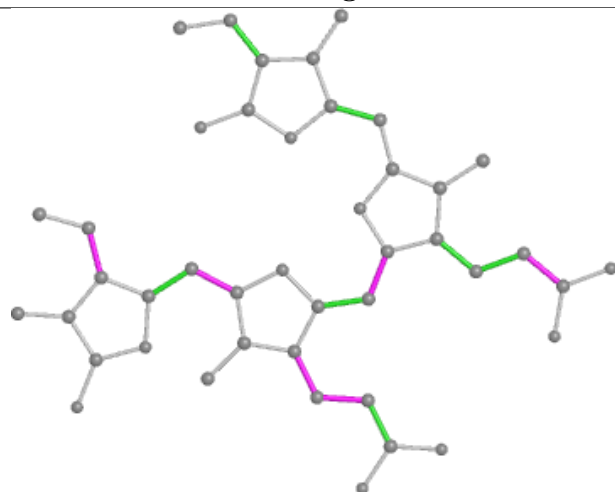
Ligand PEB JA 202



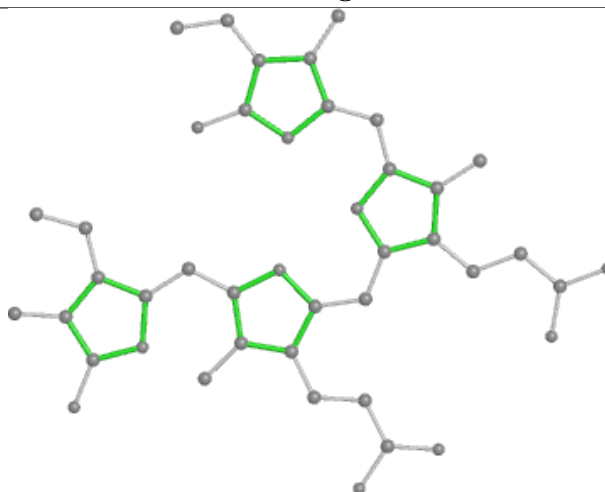
Bond lengths



Bond angles

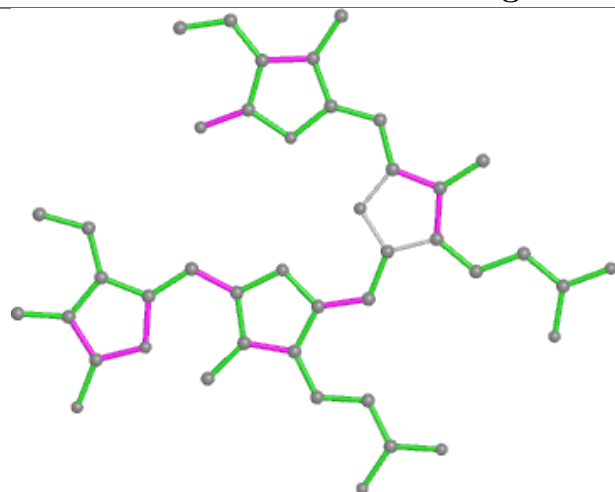


Torsions

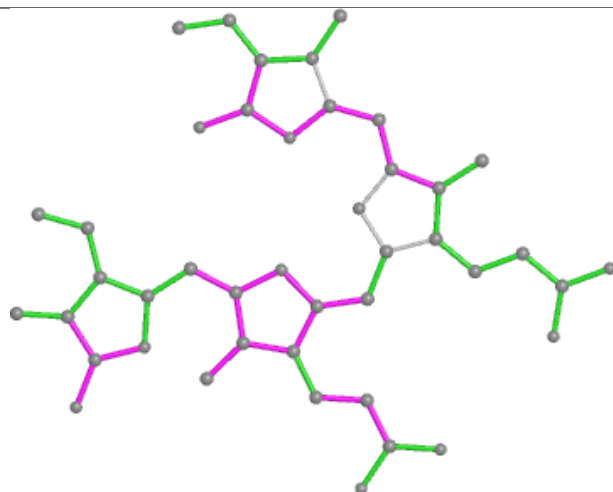


Rings

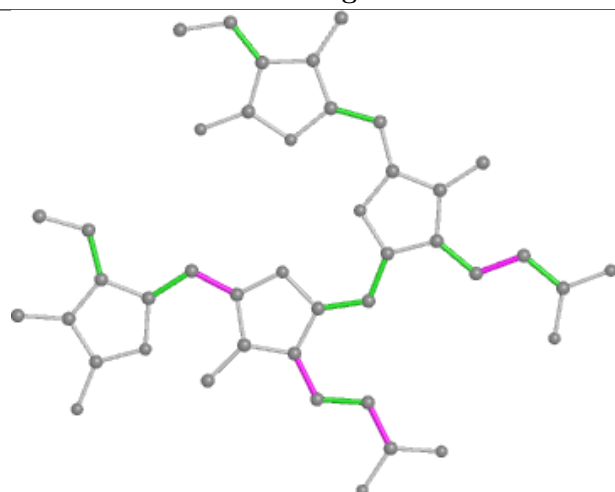
Ligand PEB VK 201



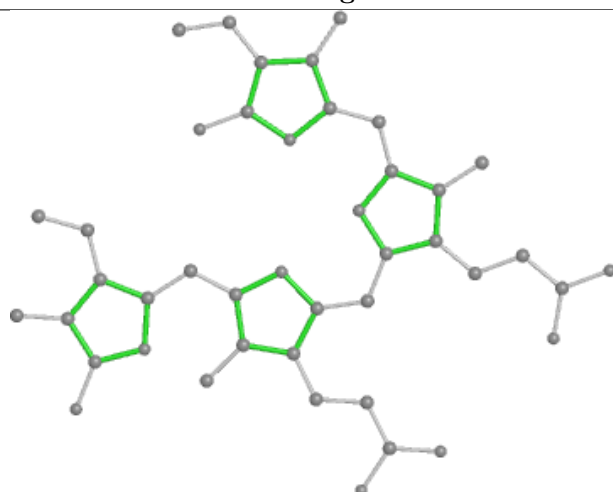
Bond lengths



Bond angles

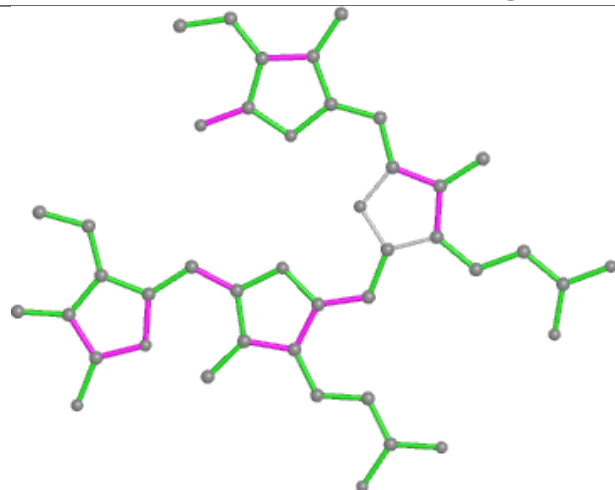


Torsions

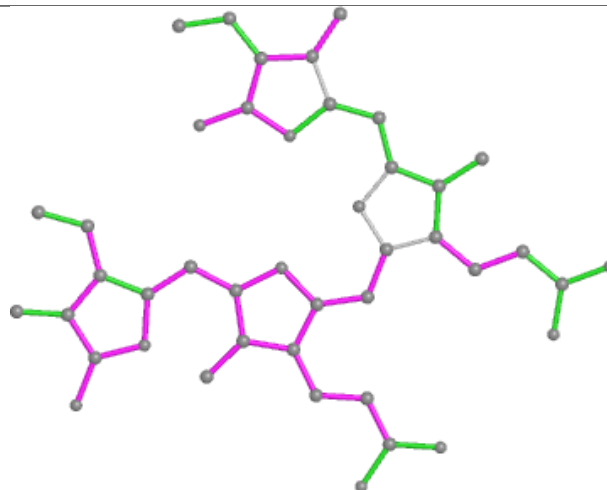


Rings

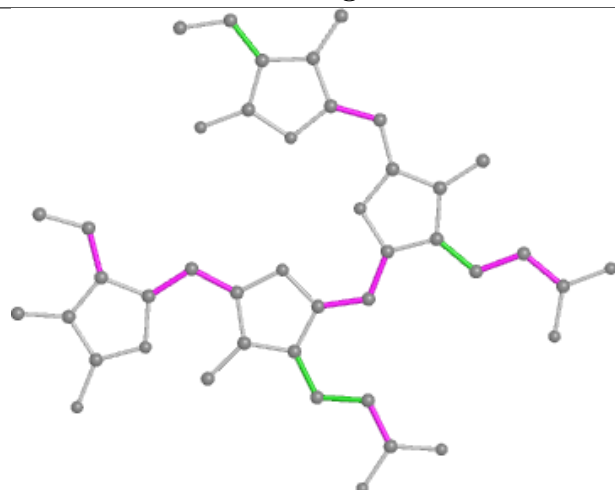
Ligand PEB AN 202



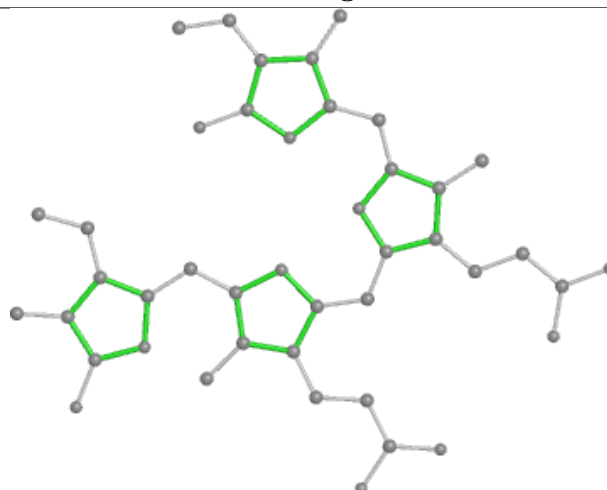
Bond lengths



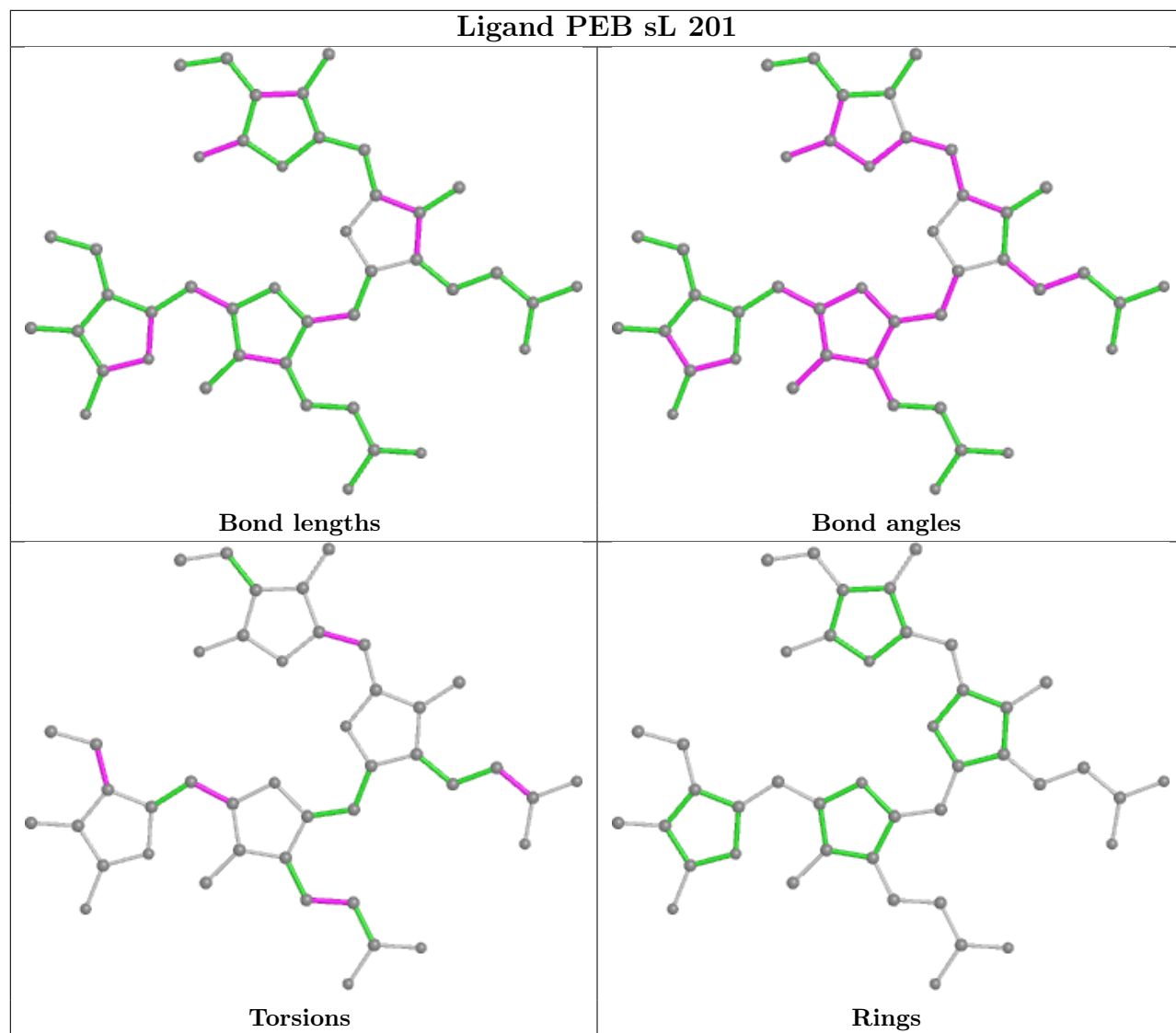
Bond angles



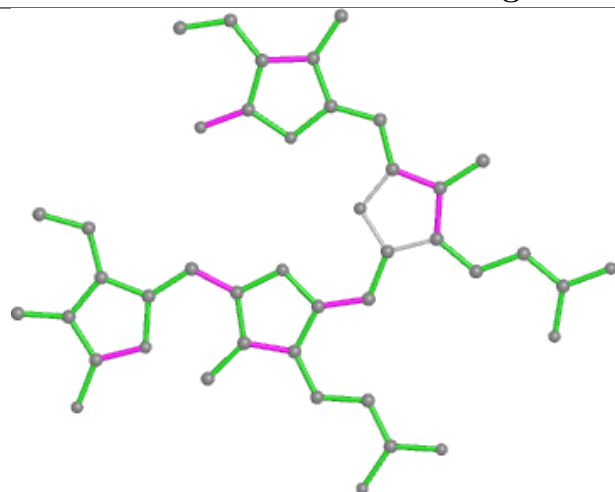
Torsions



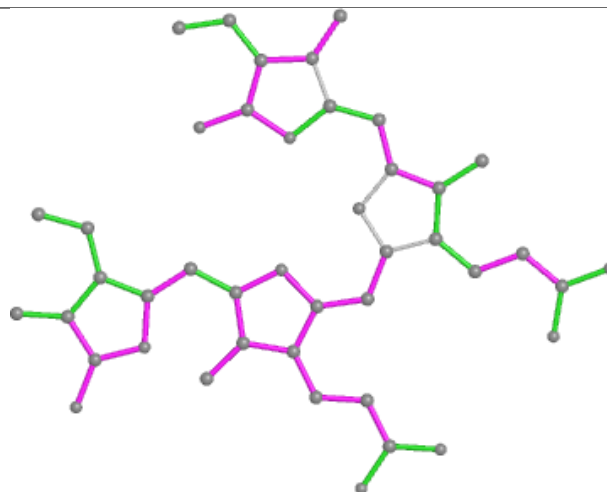
Rings



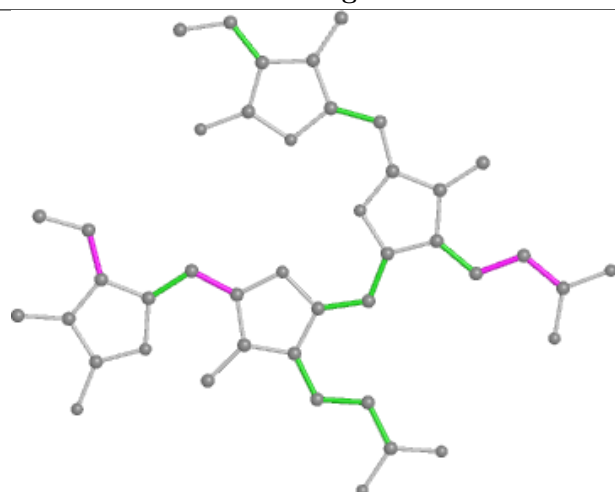
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Bond lengths



Bond angles

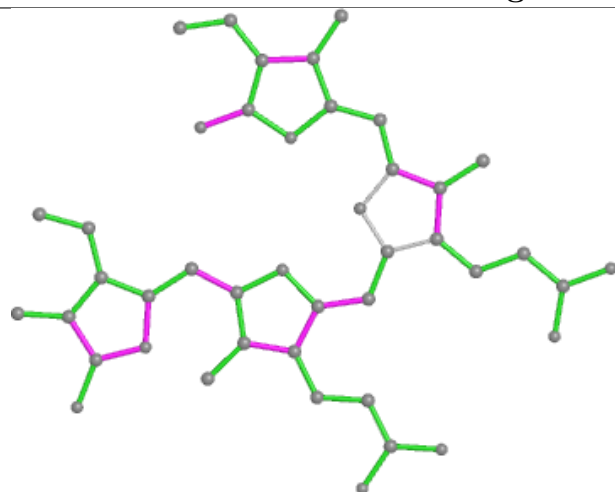


Torsions

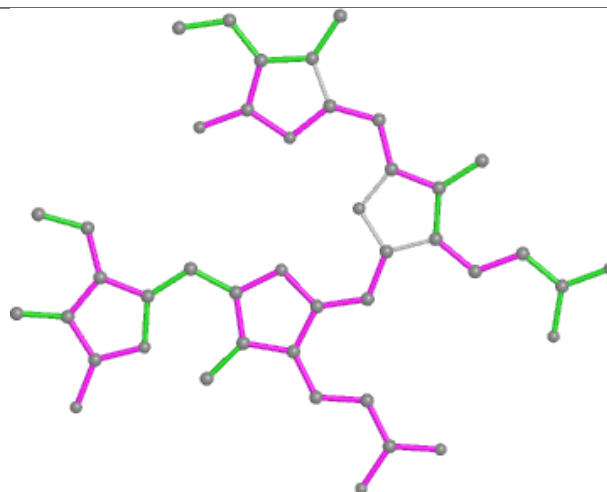


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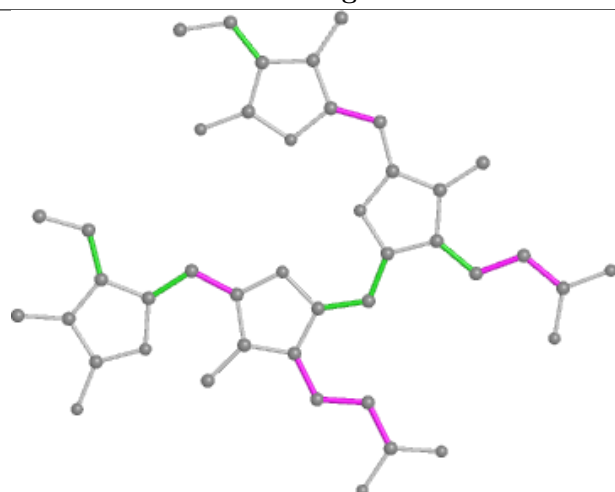
Ligand PEB JA 201



Bond lengths



Bond angles

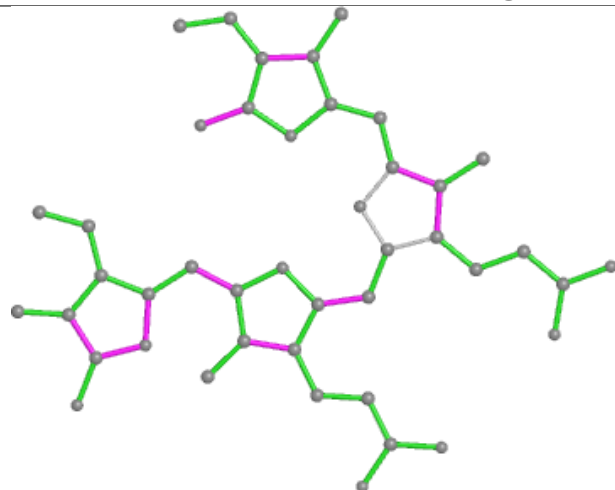


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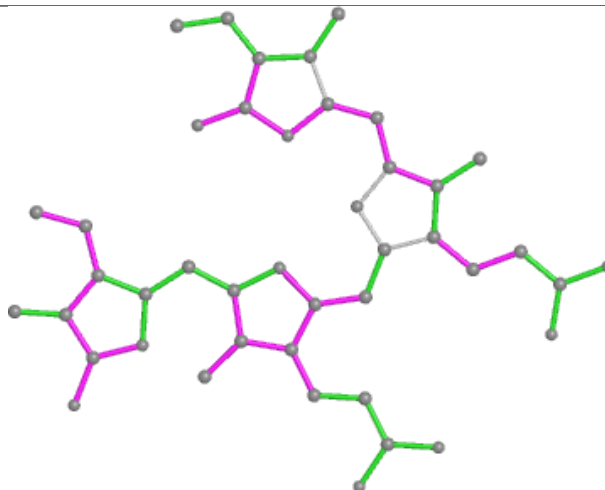


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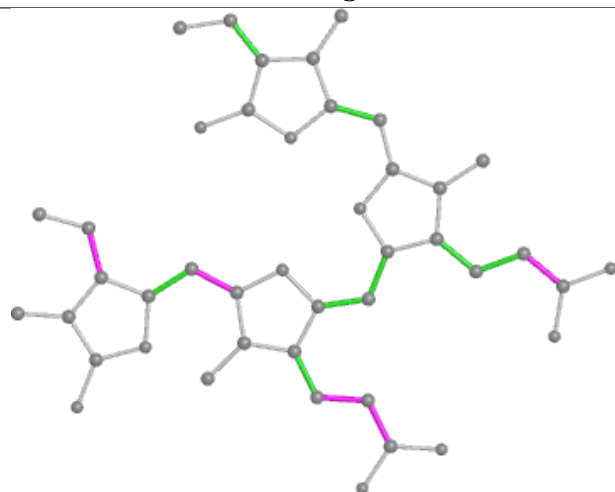
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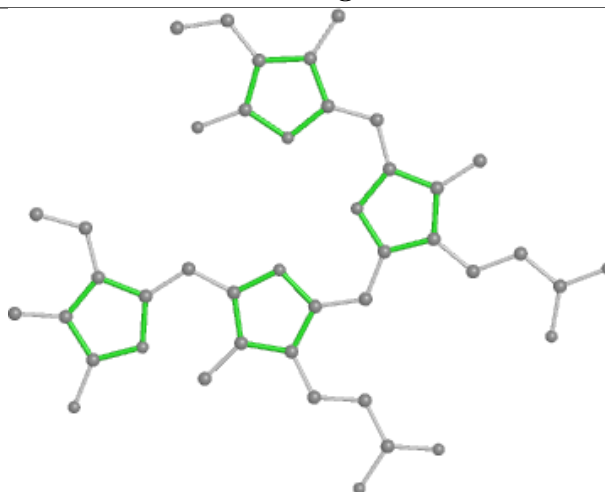
Bond lengths



Bond angles

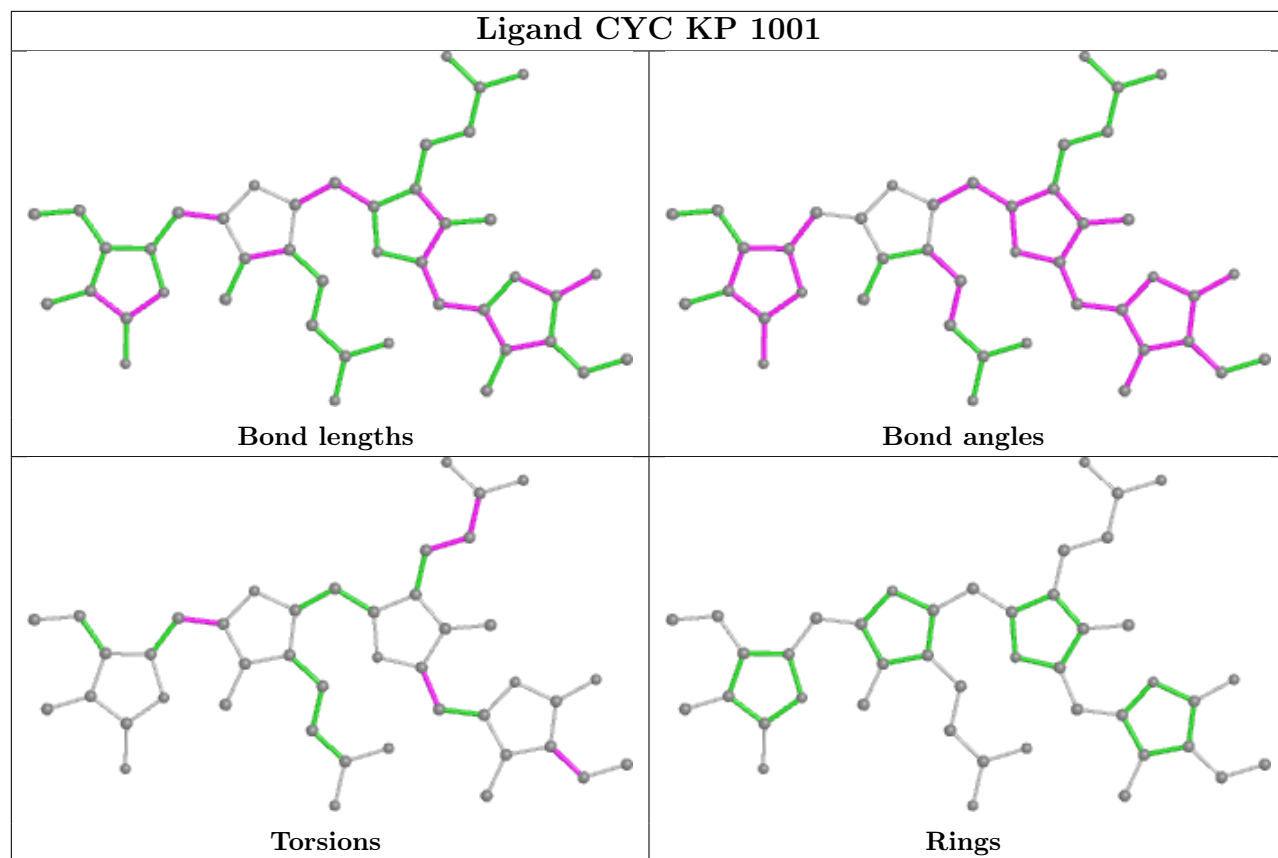


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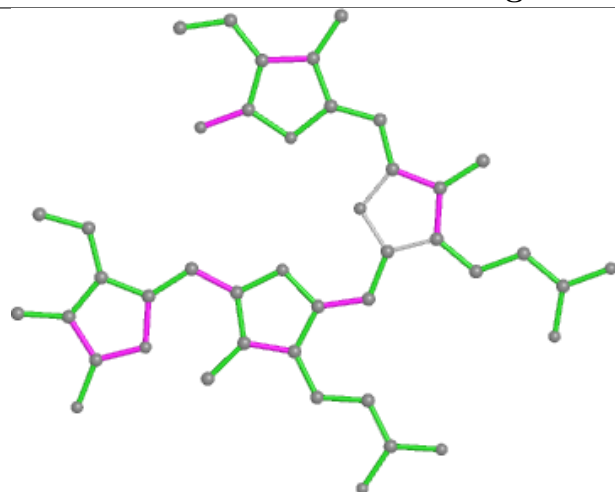


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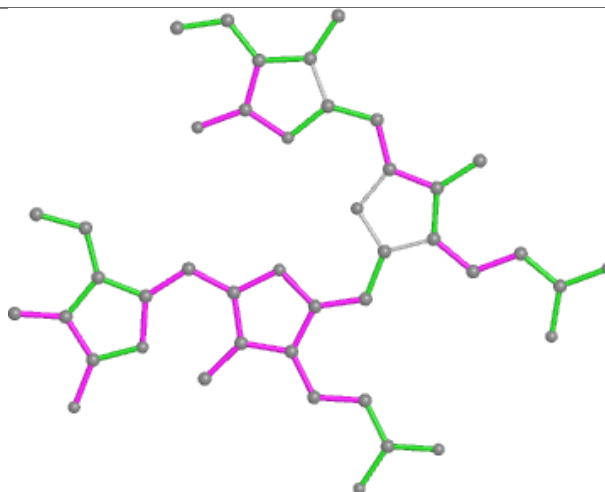
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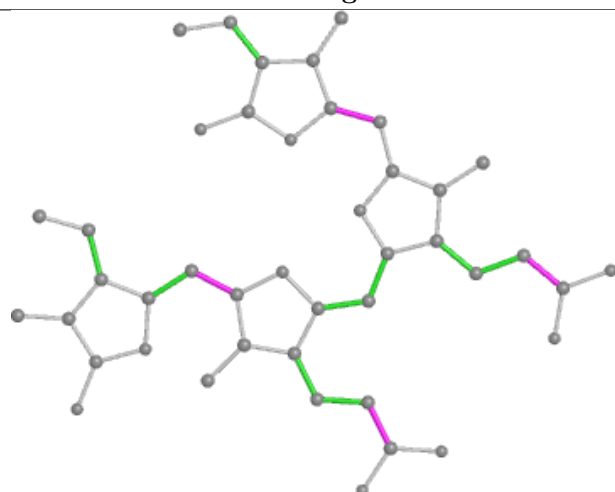
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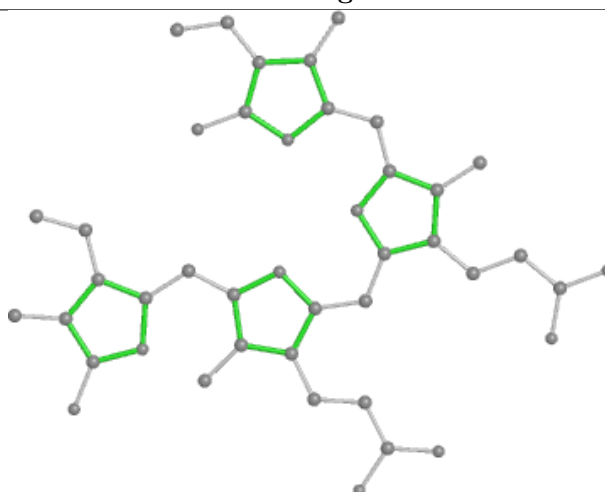
Bond lengths



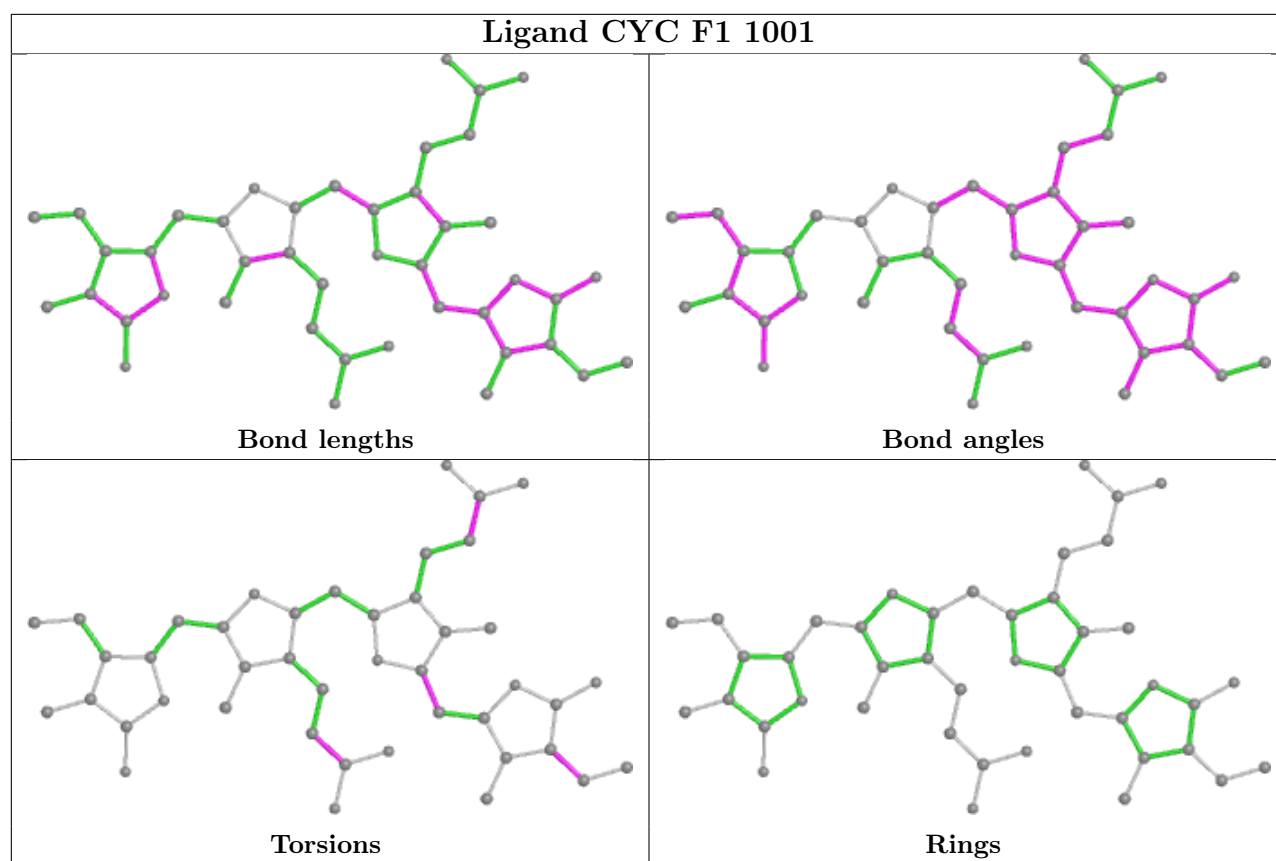
Bond angles



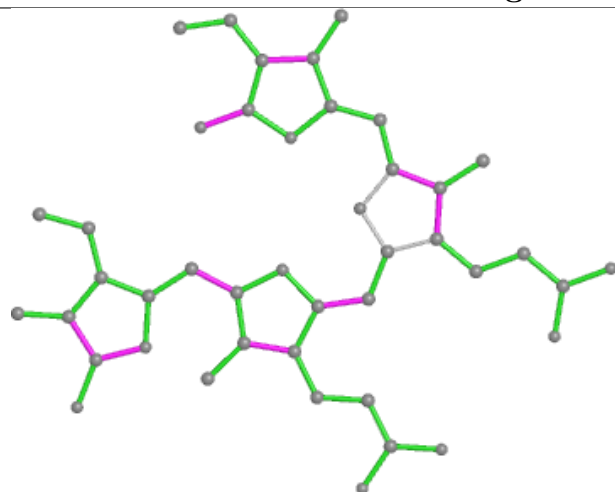
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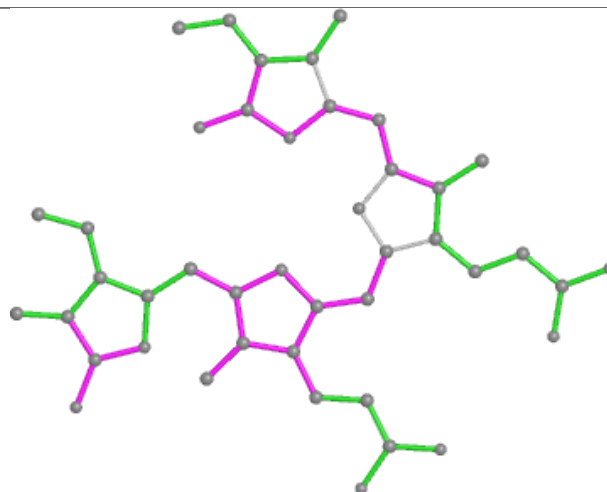
Rings



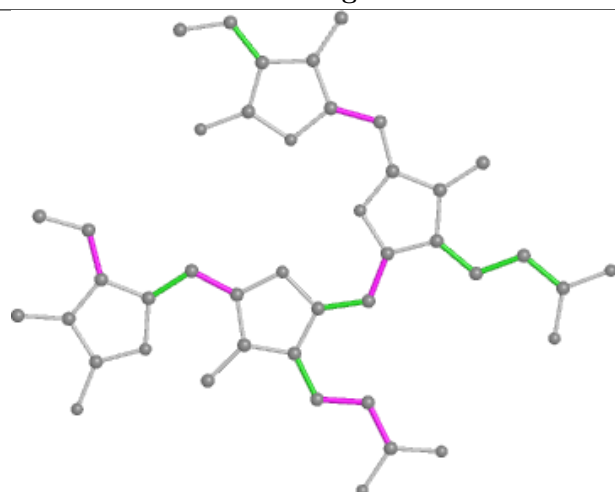
Ligand PEB LA 203



Bond lengths



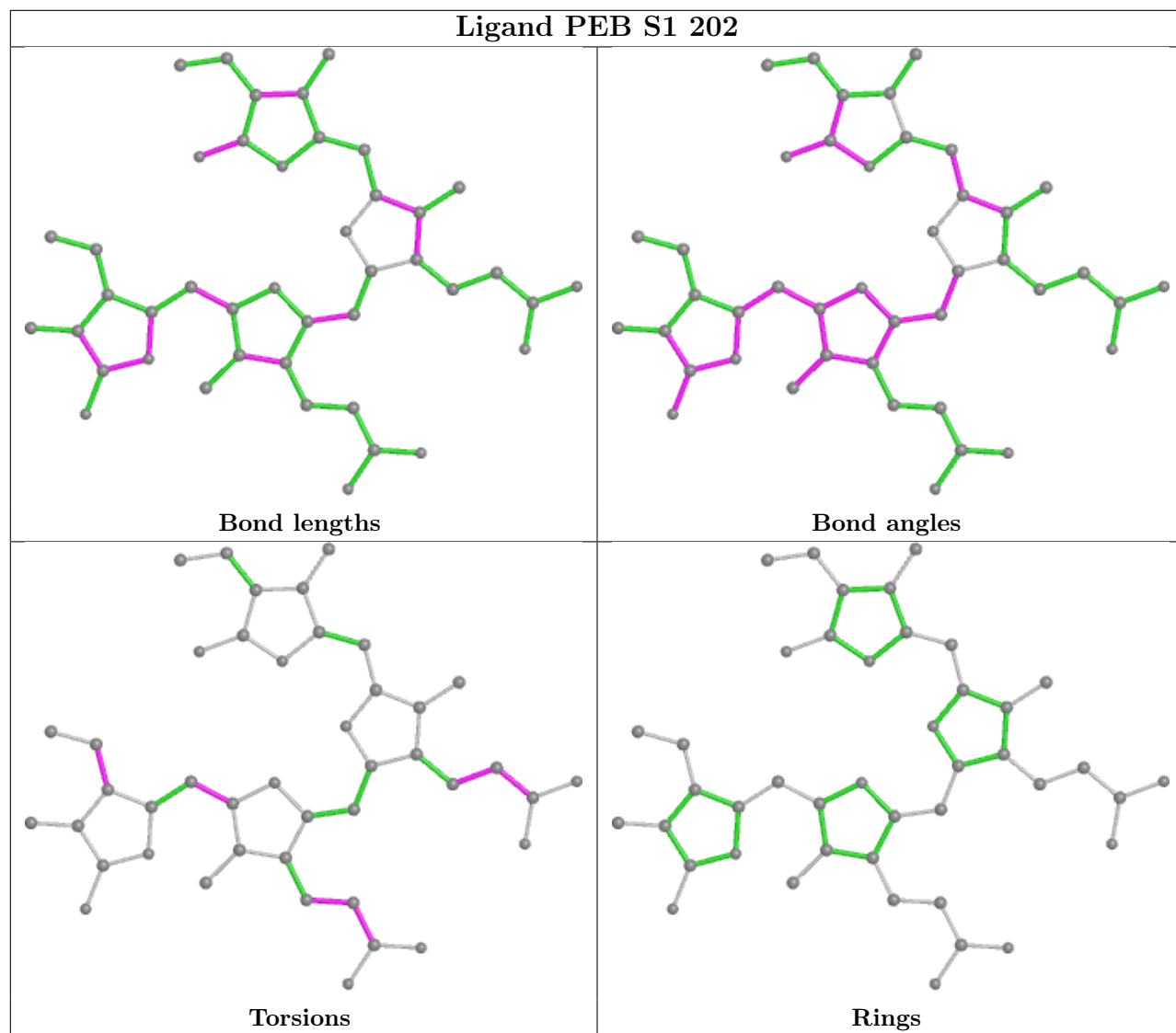
Bond angles

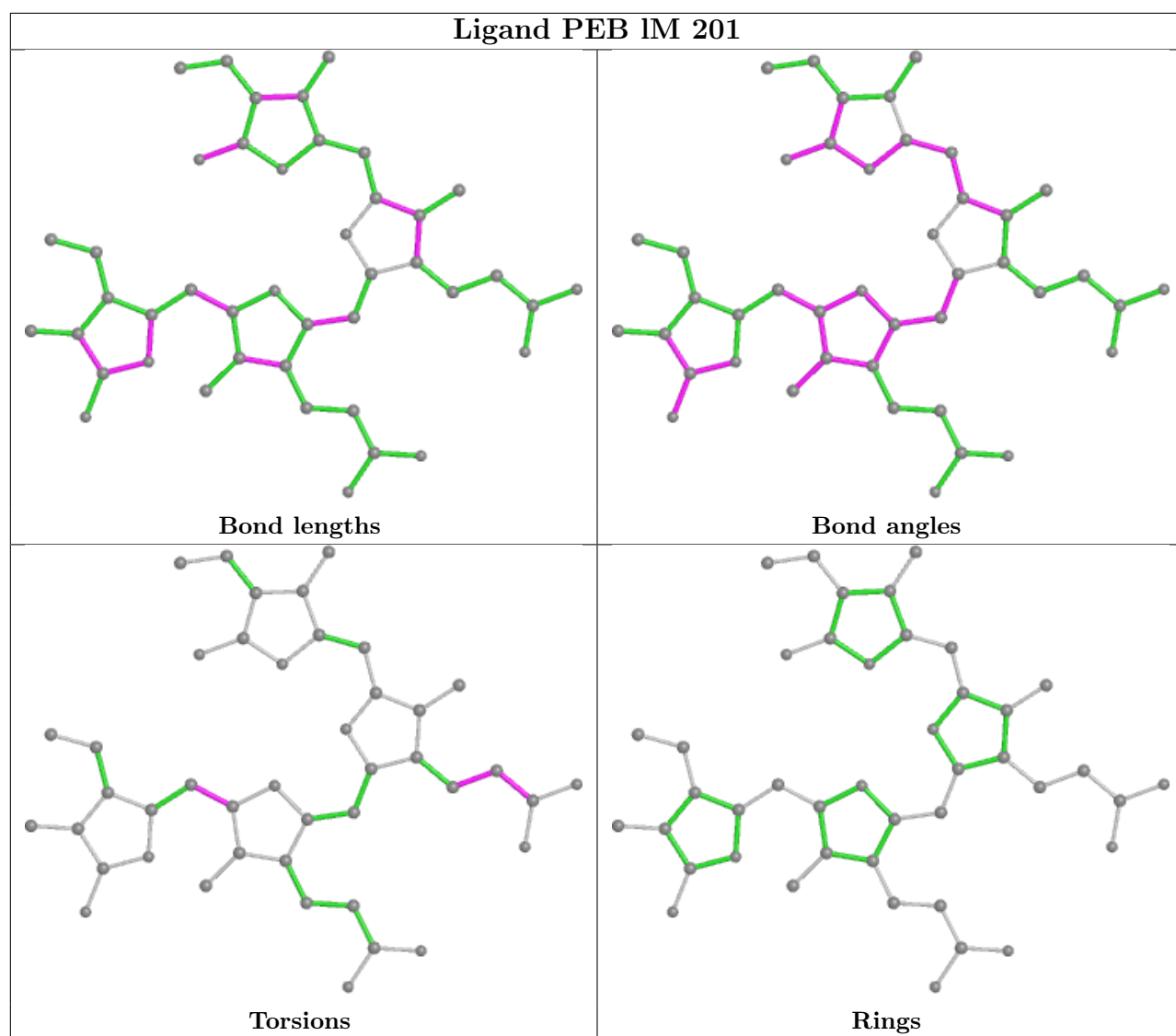


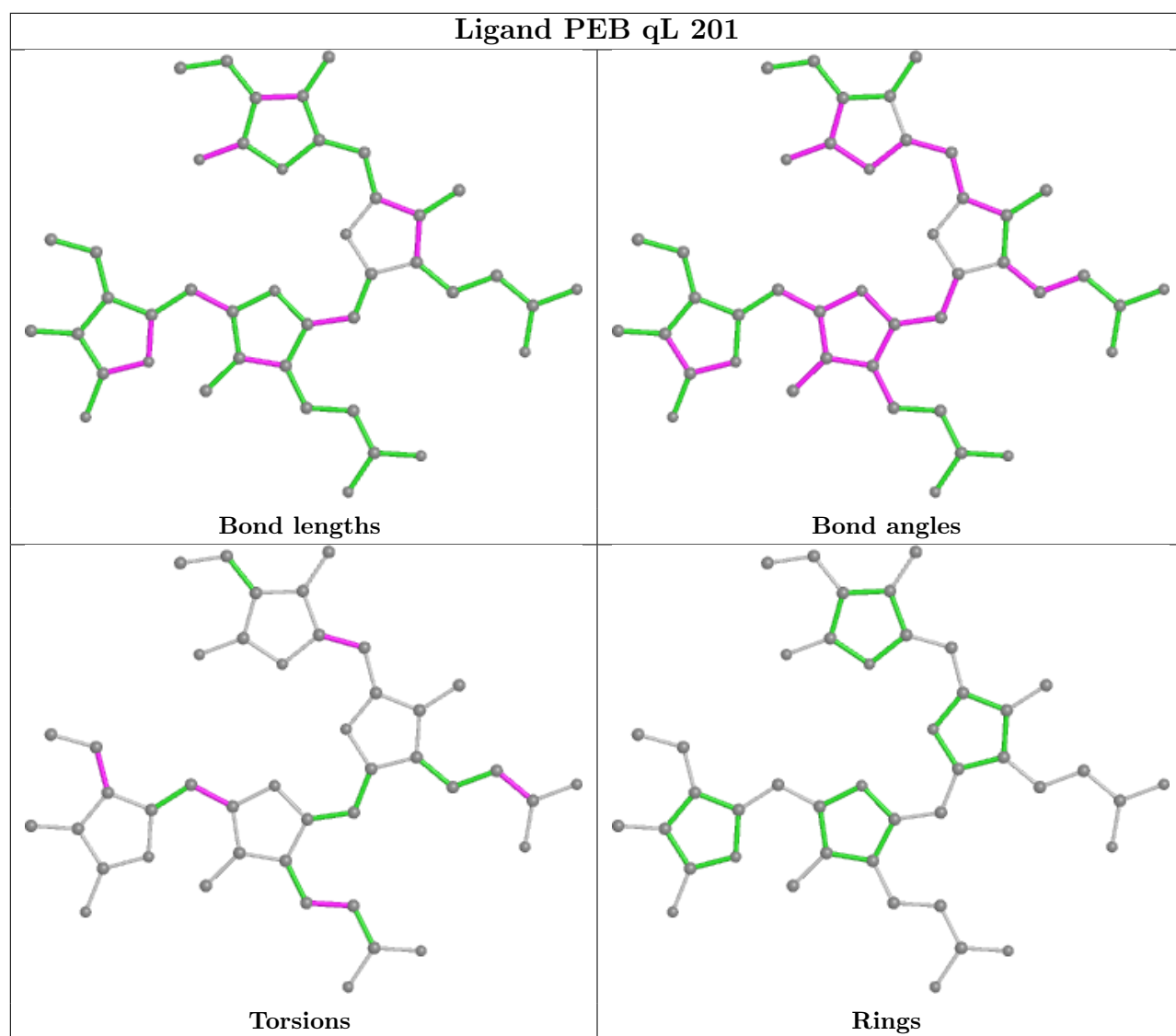
Torsions

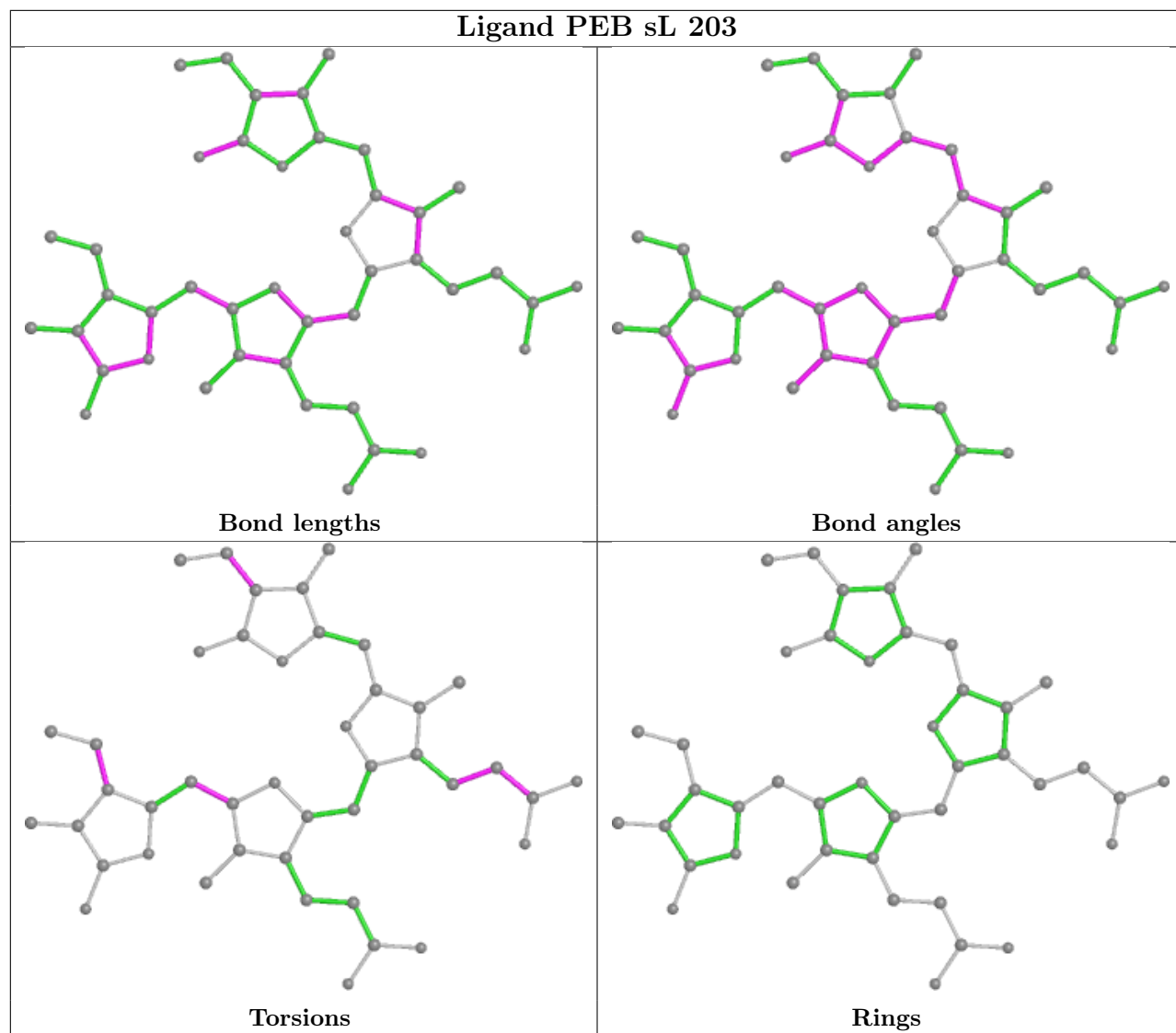


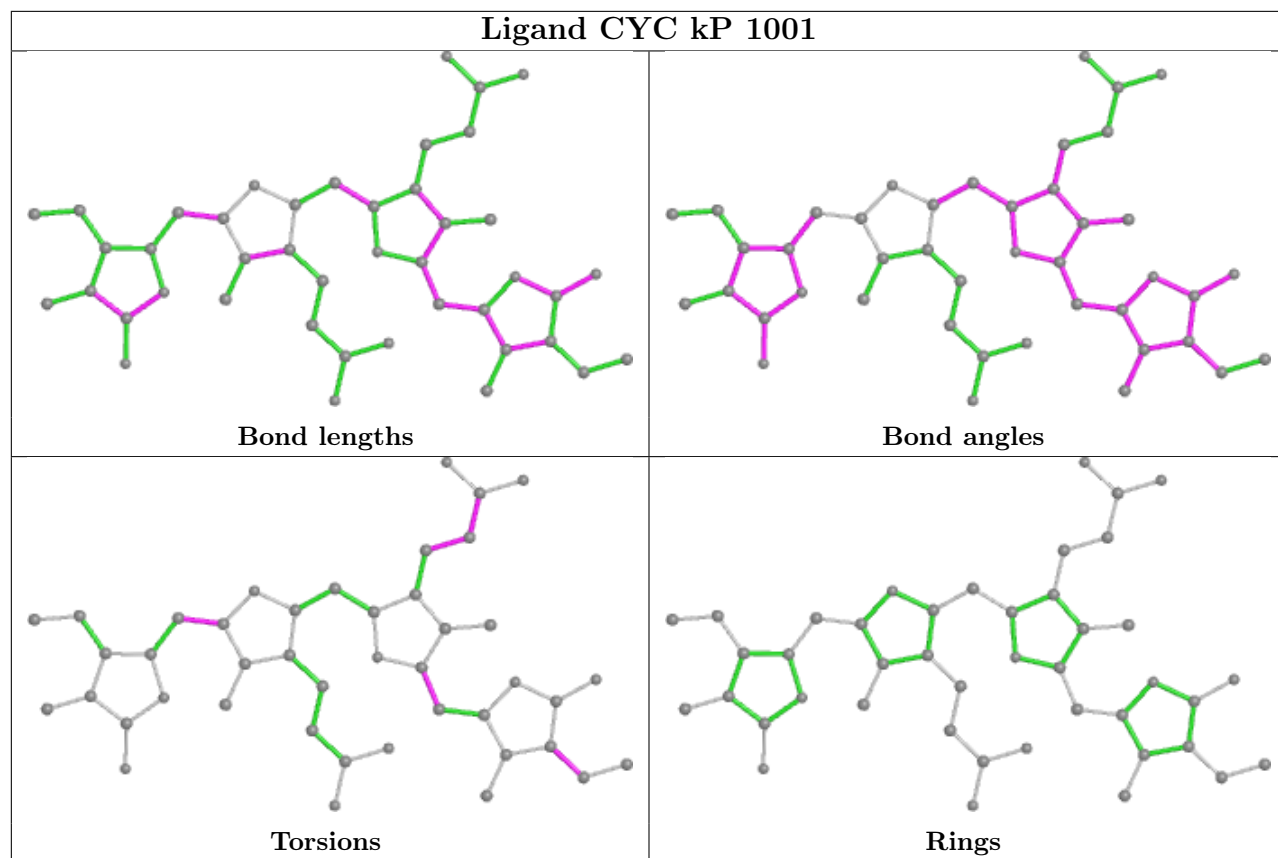
Rings

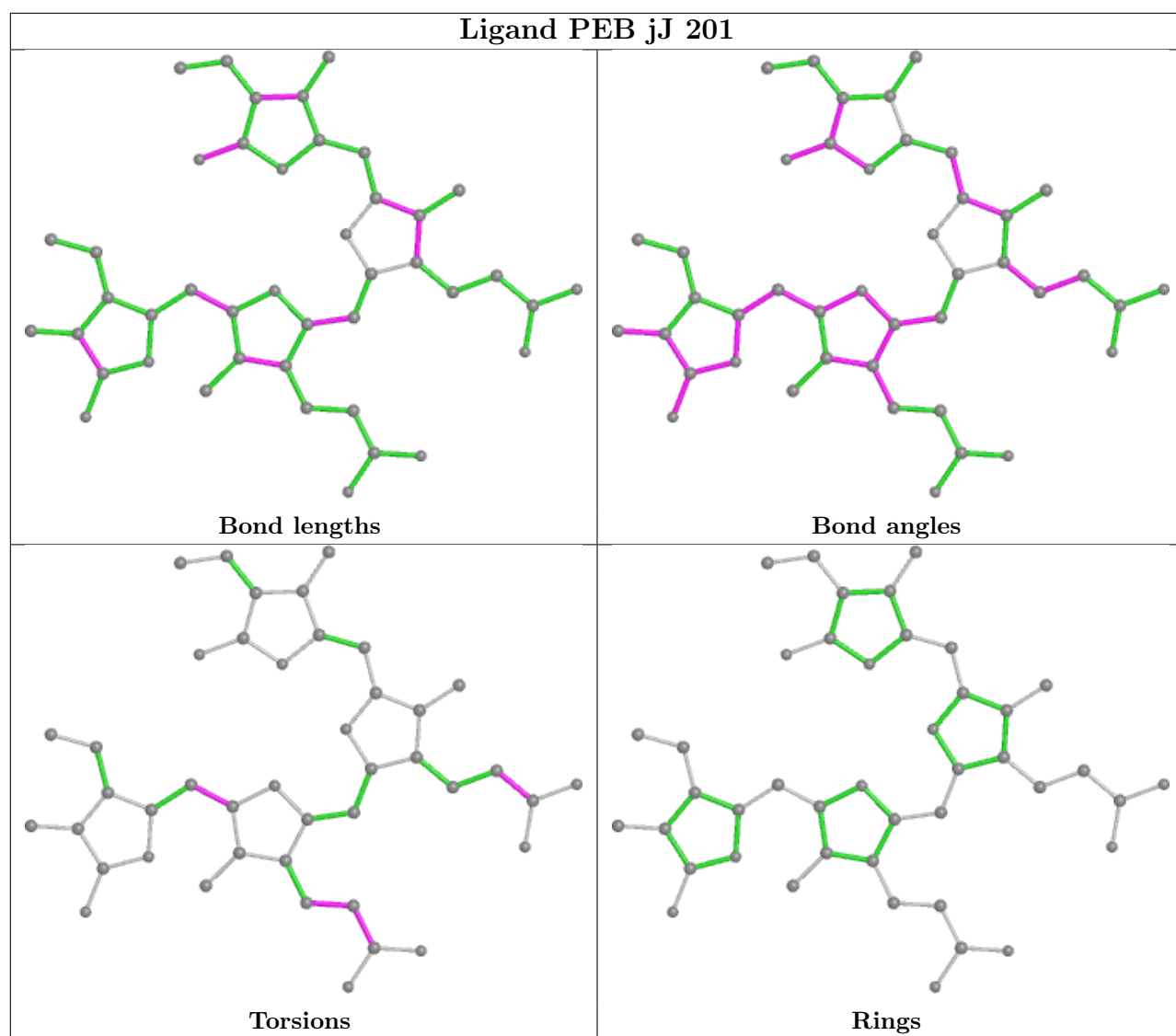




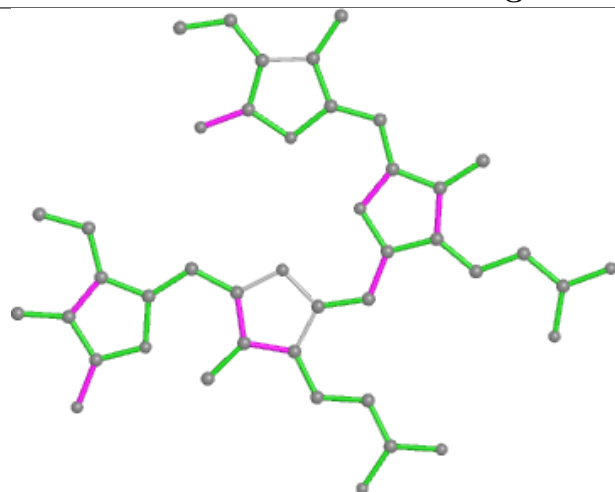




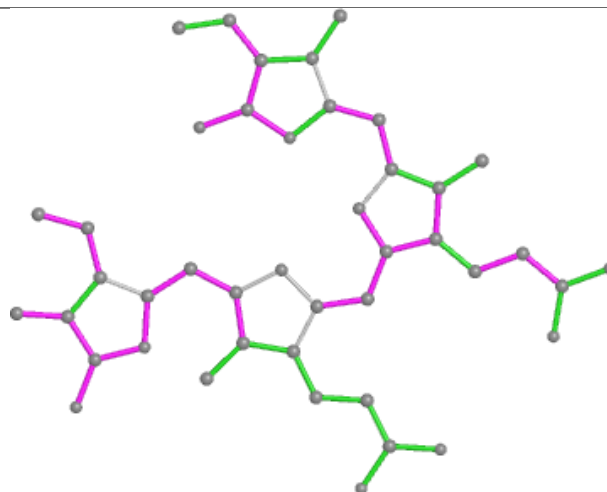




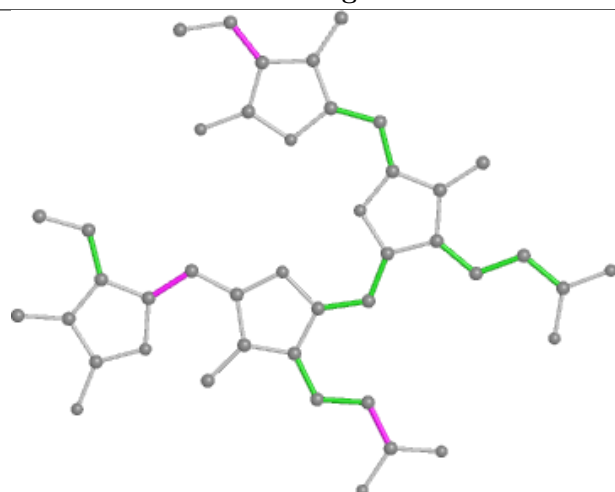
Ligand PUB wJ 305



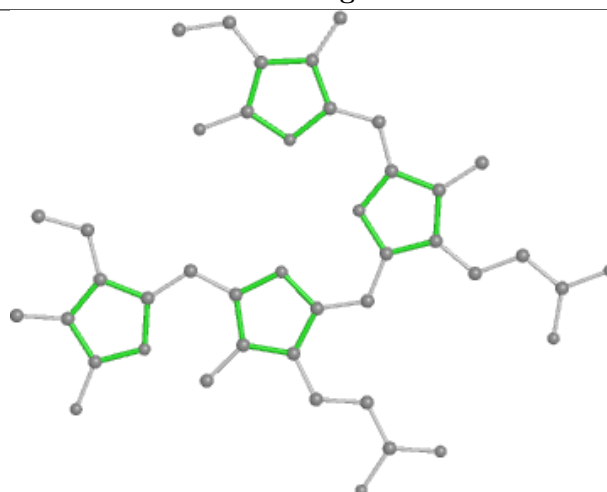
Bond lengths



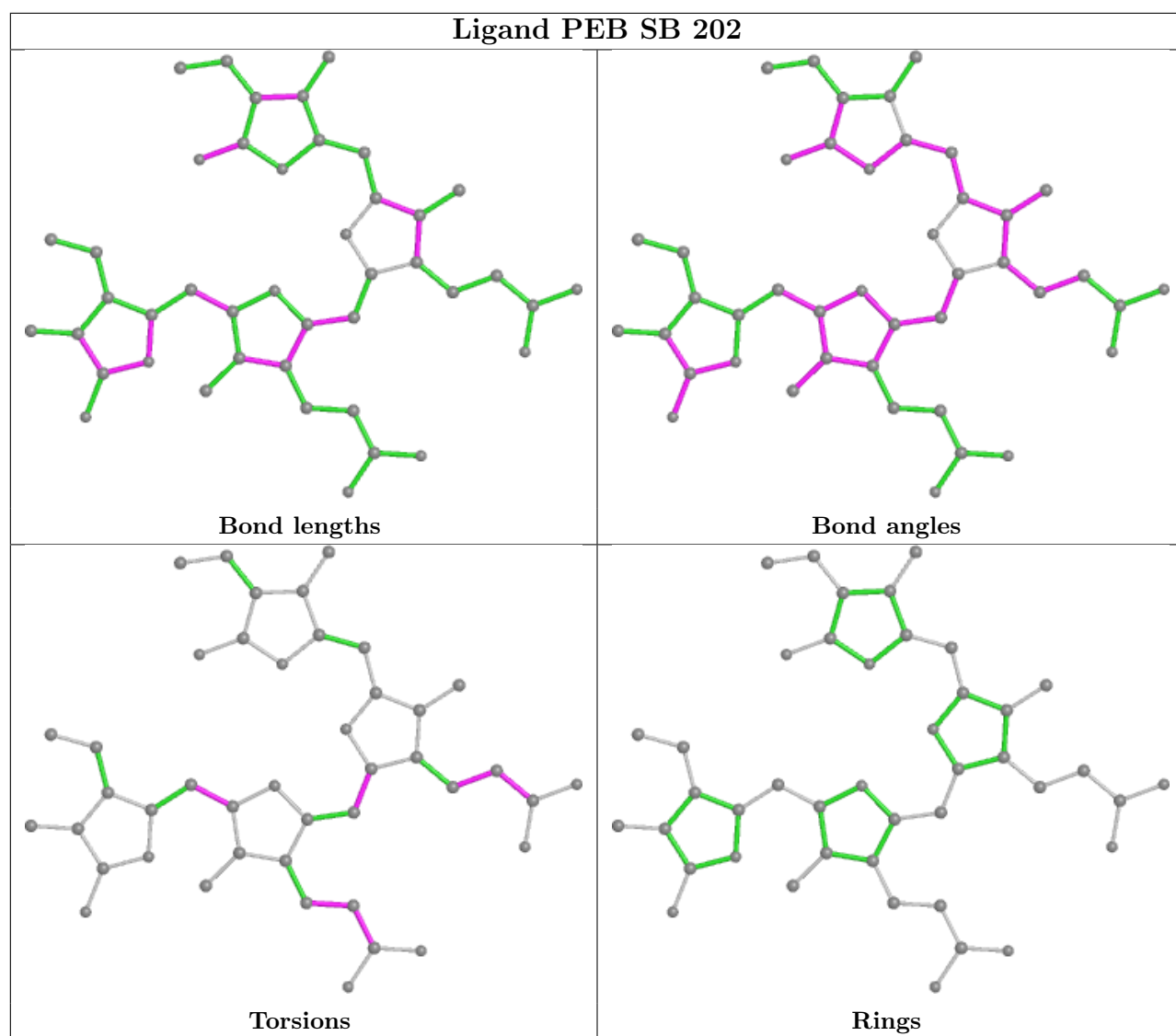
Bond angles

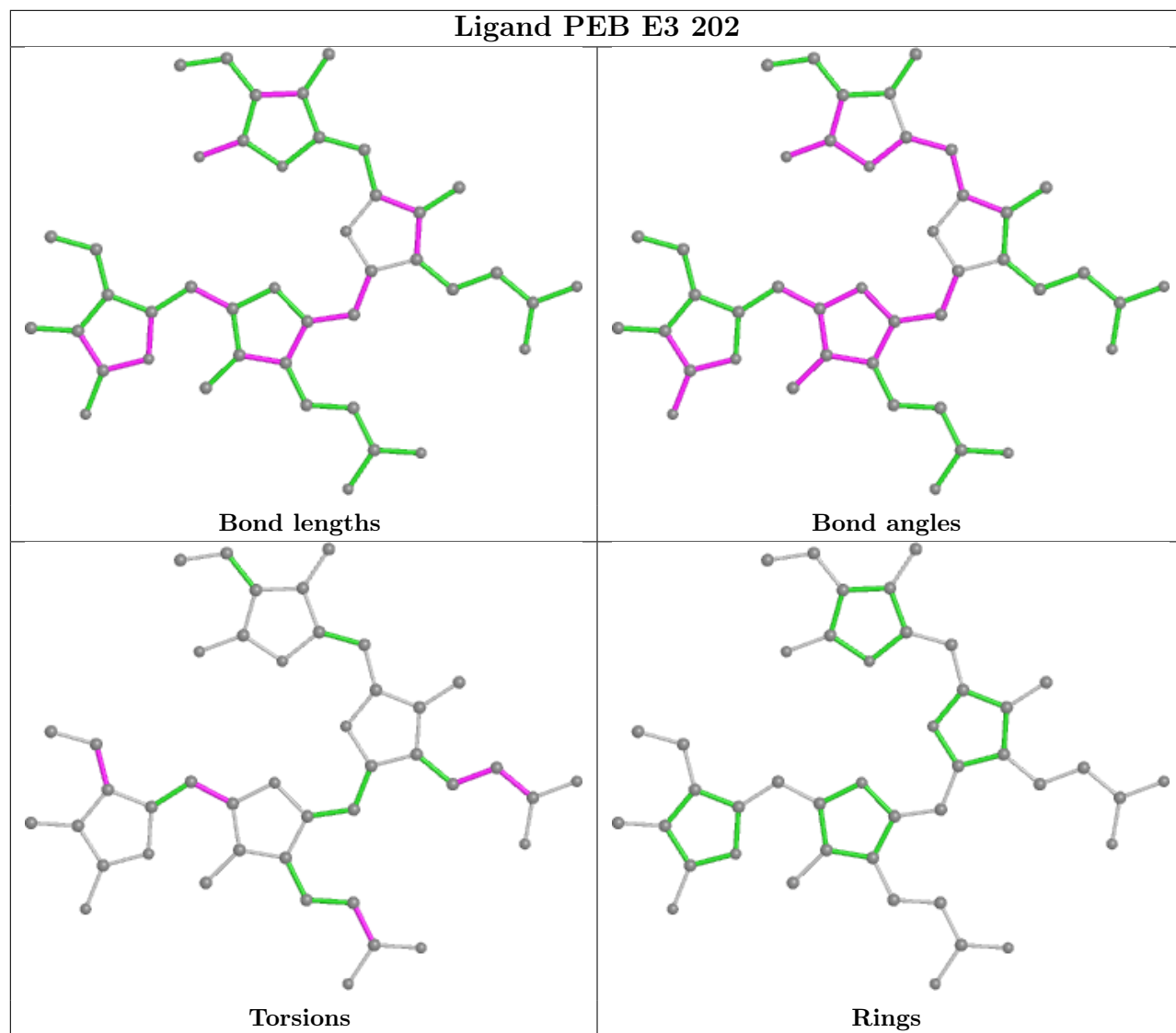


Torsions

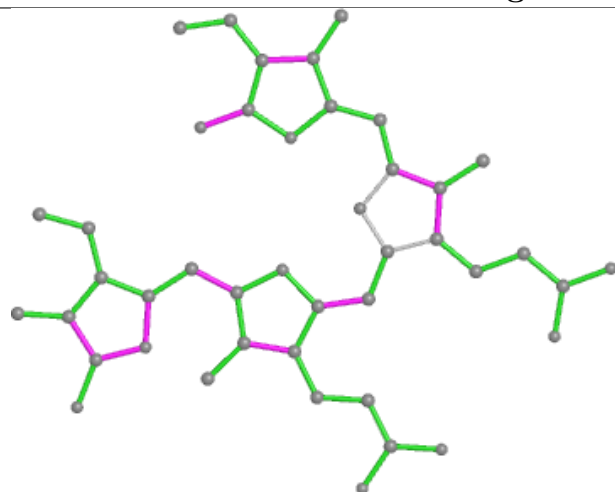


Rings

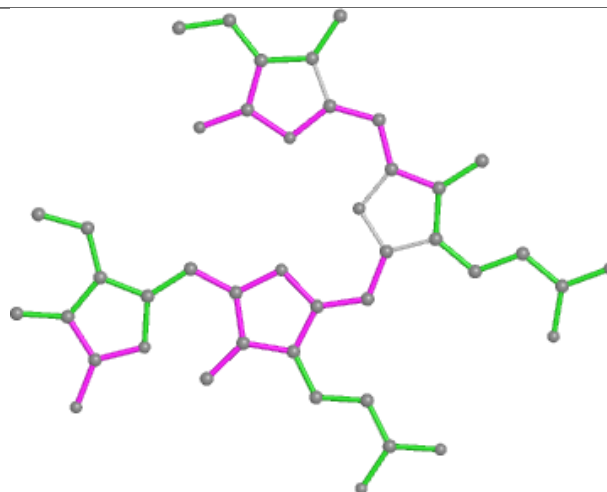




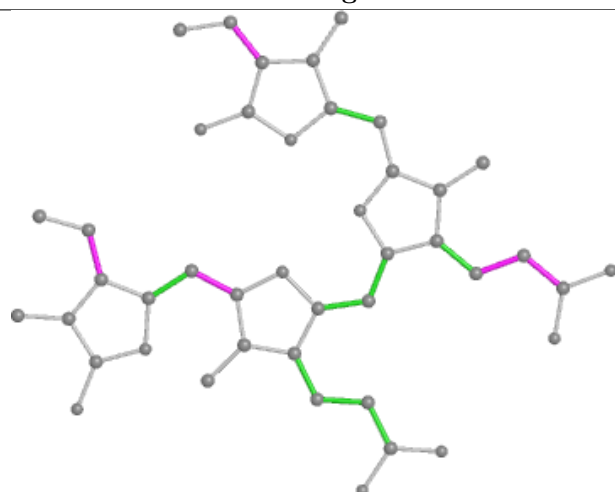
Ligand PEB AJ 203



Bond lengths



Bond angles

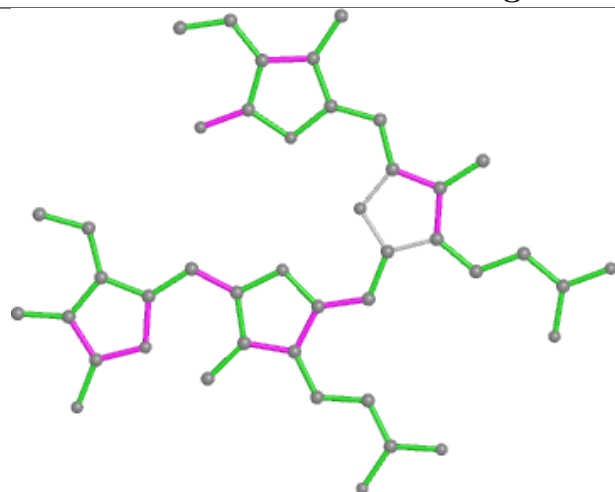


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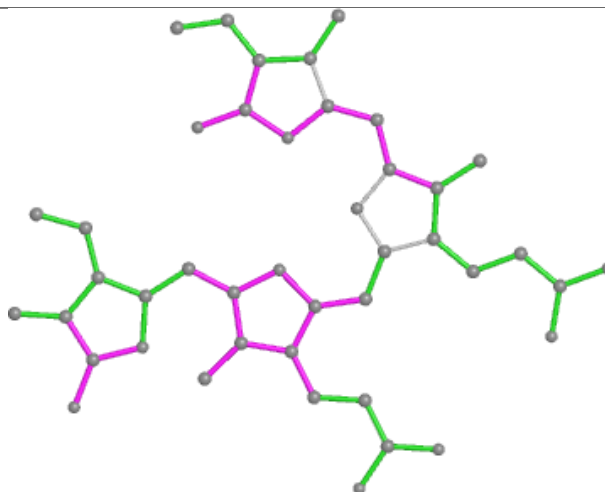


Rings

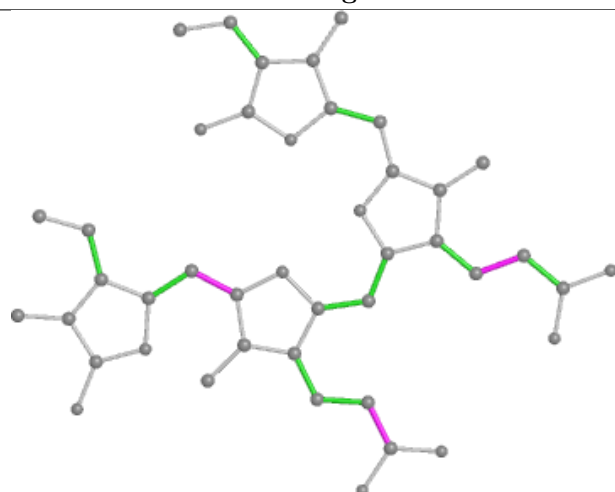
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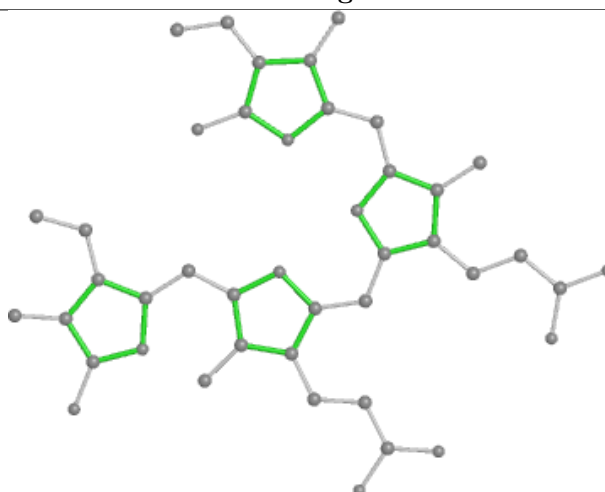
Bond lengths



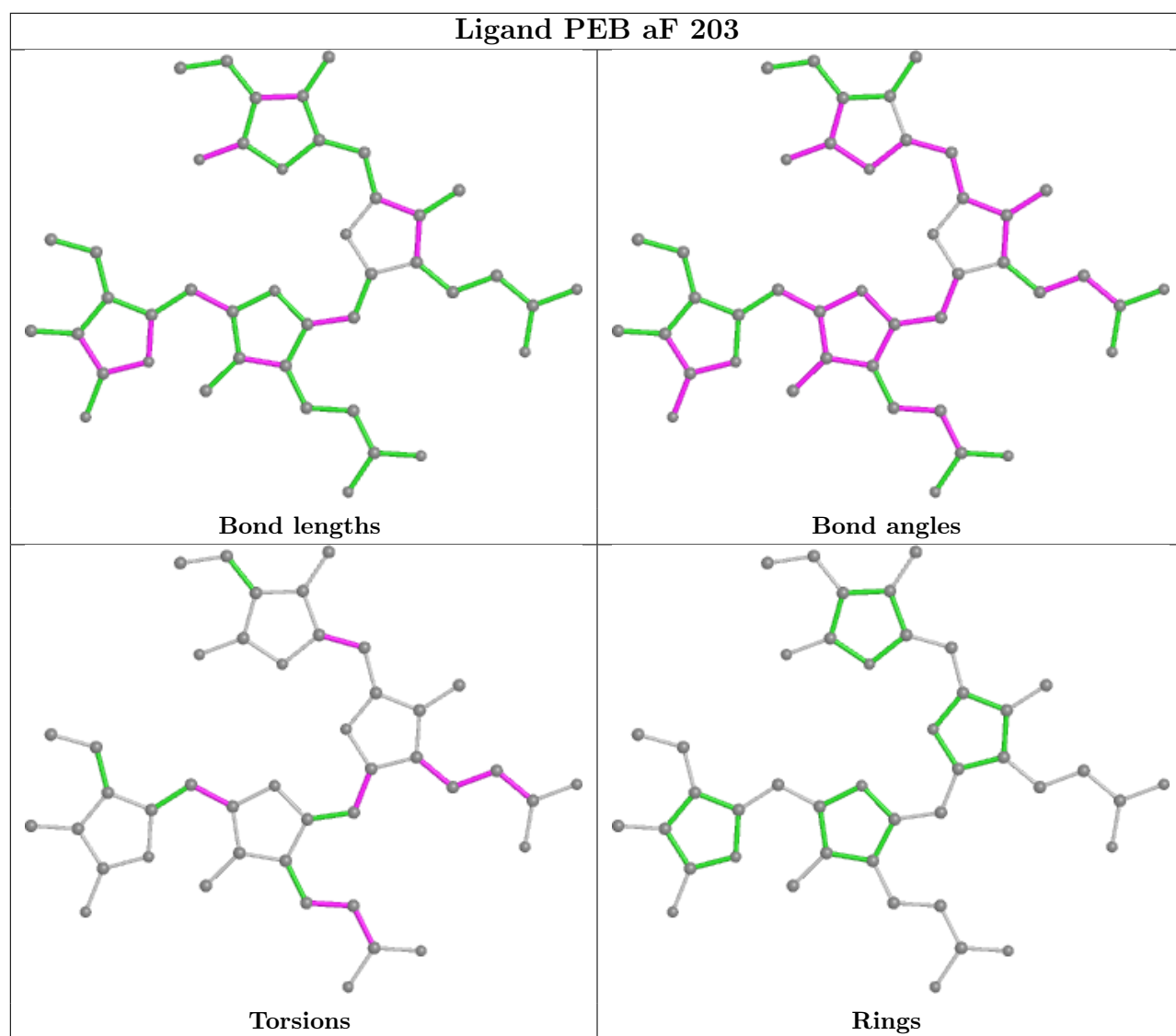
Bond angles



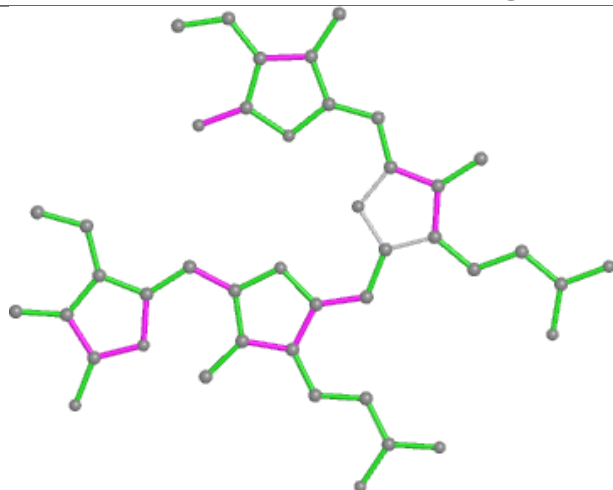
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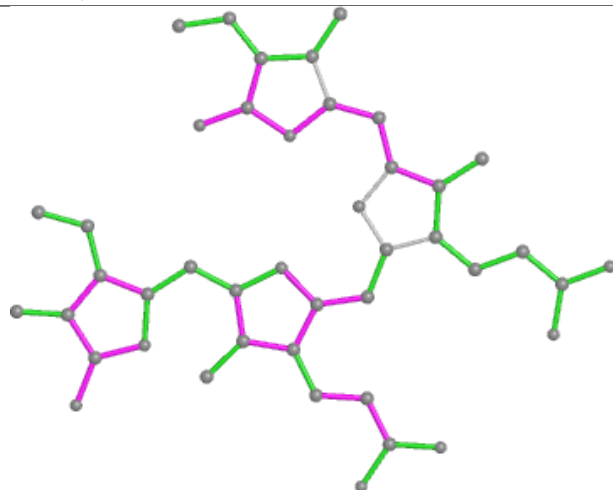
Rings



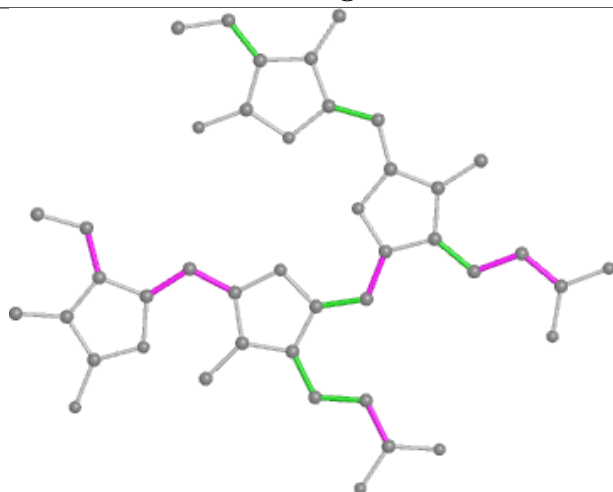
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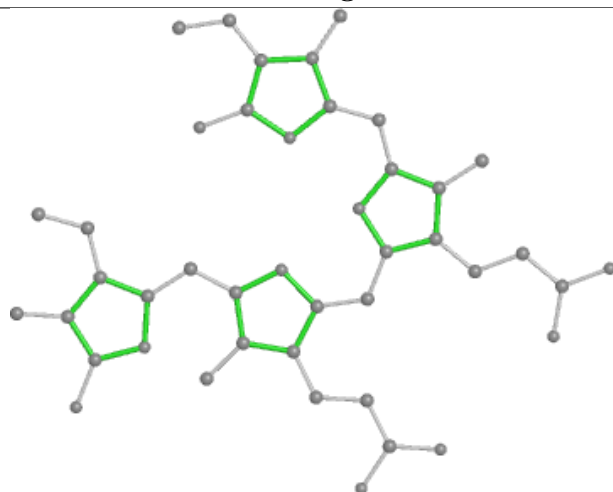
Bond lengths



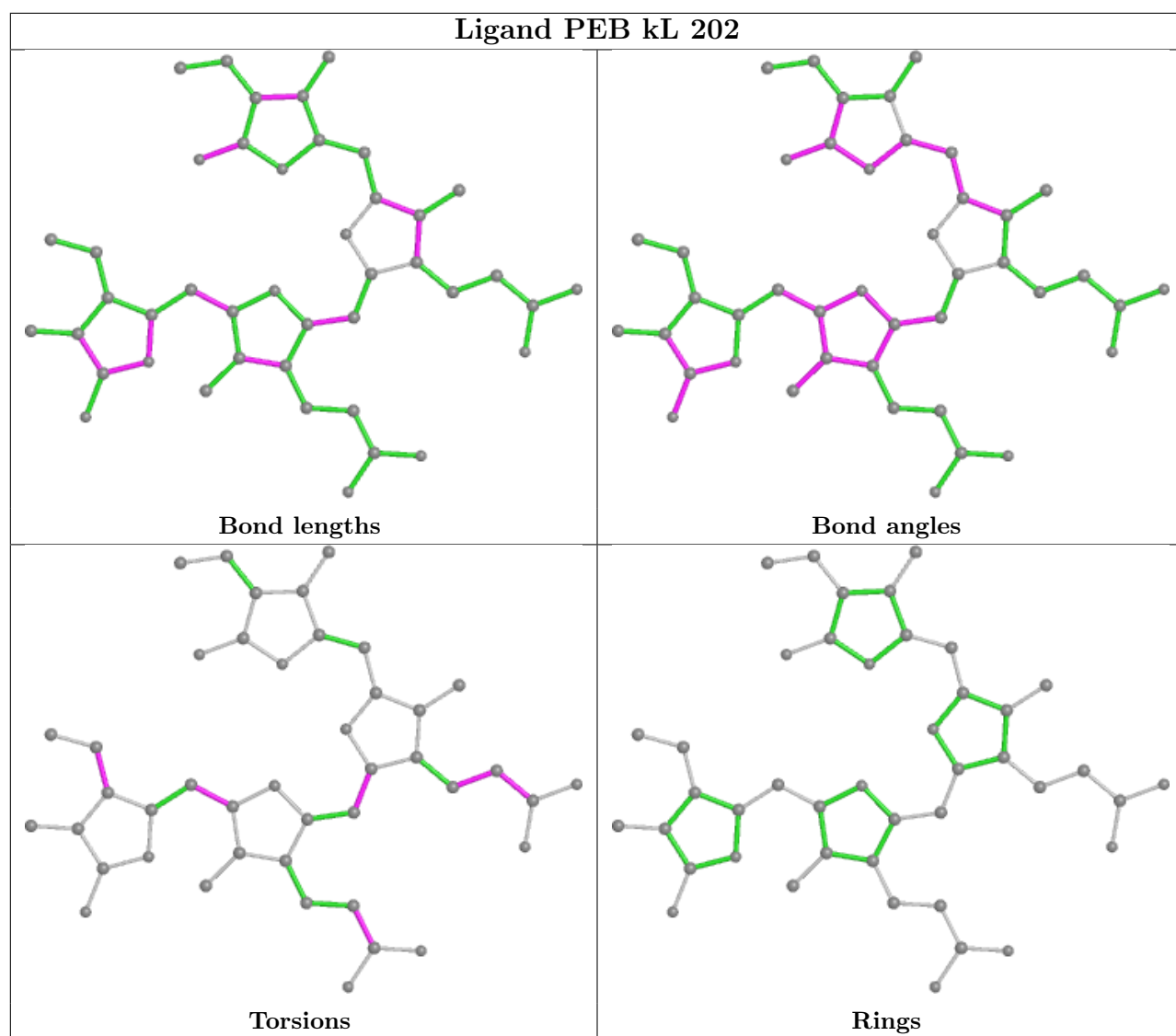
Bond angles

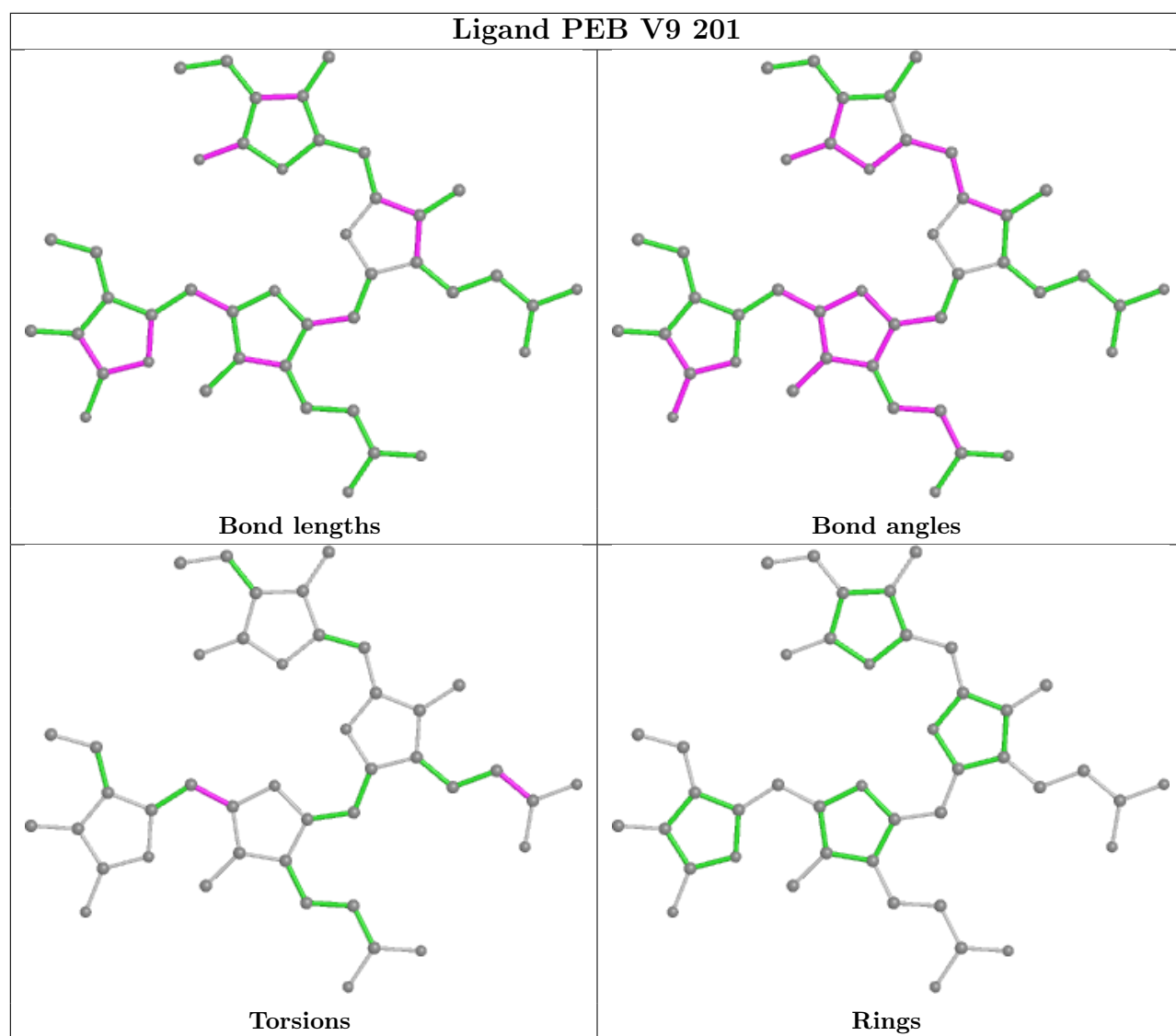


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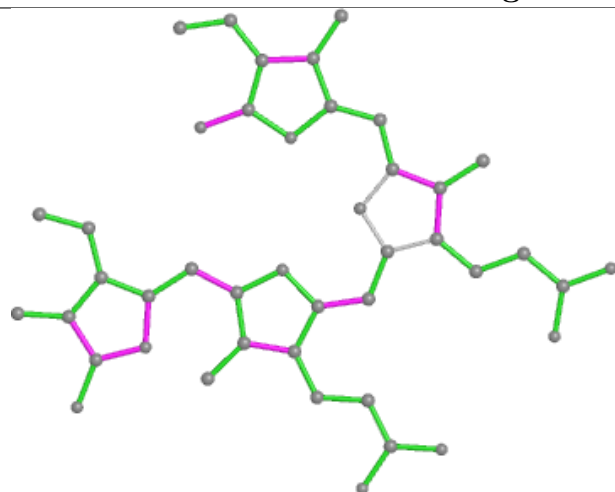


Rings

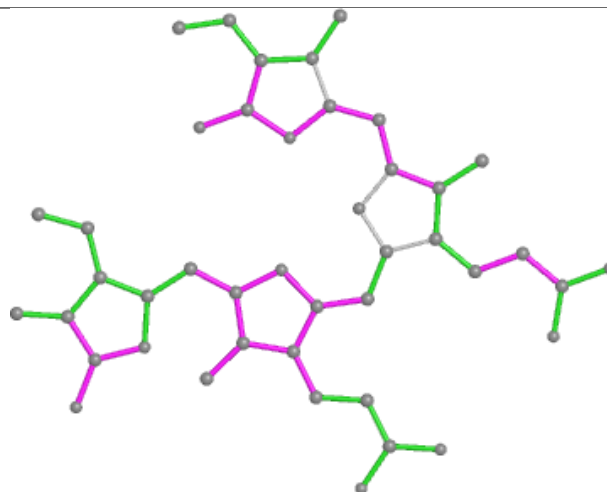




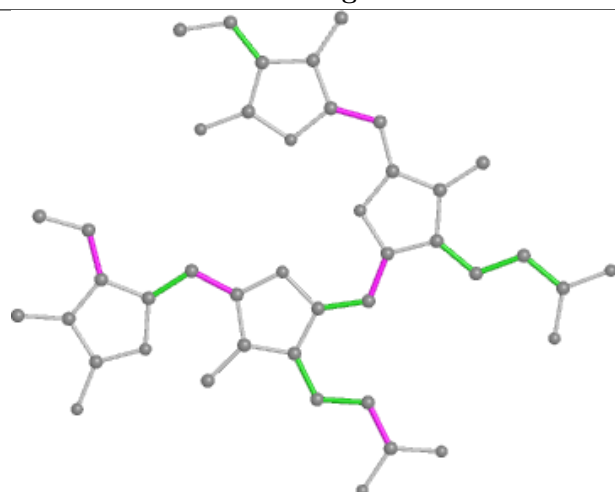
Ligand PEB HO 203



Bond lengths



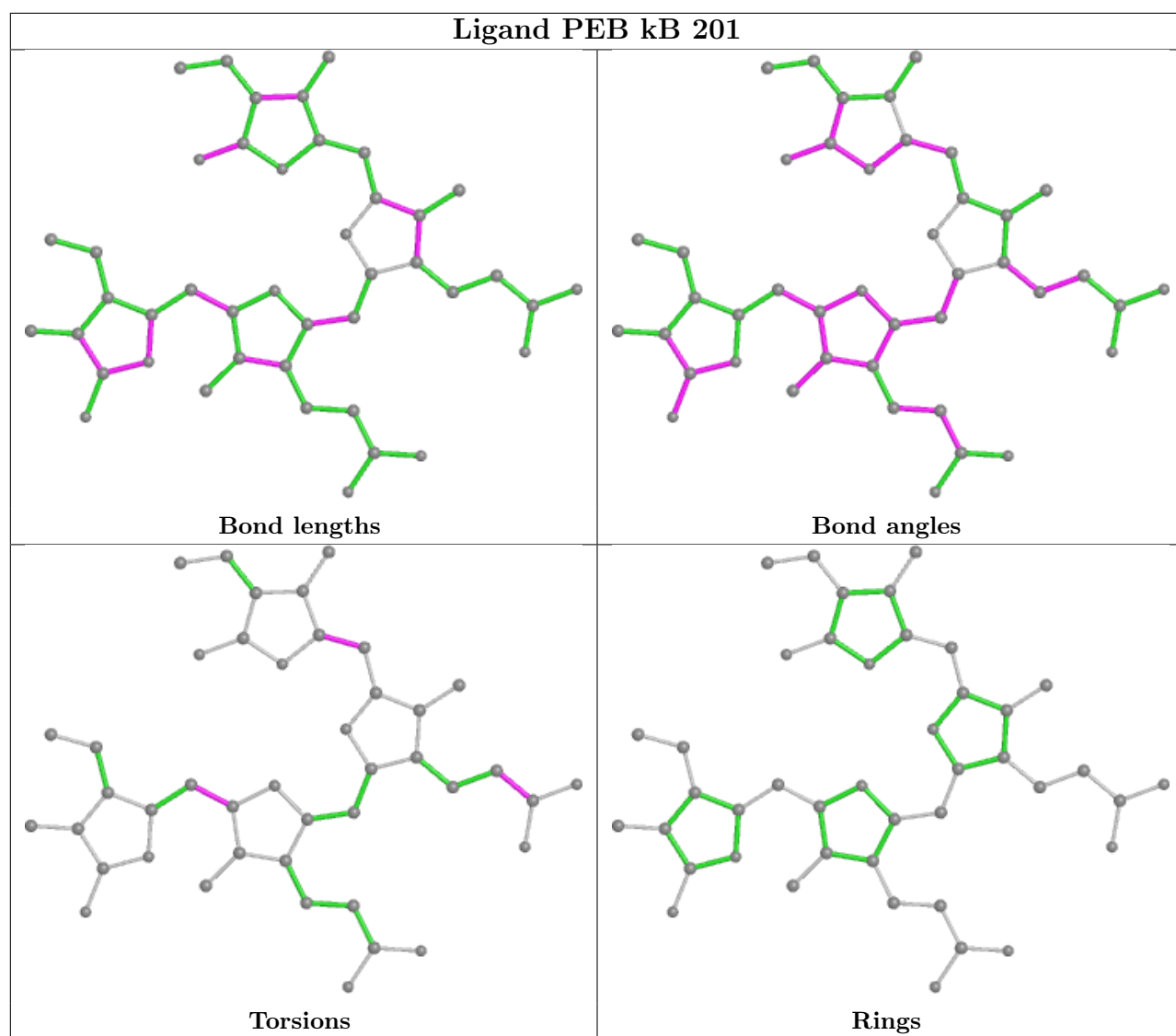
Bond angles

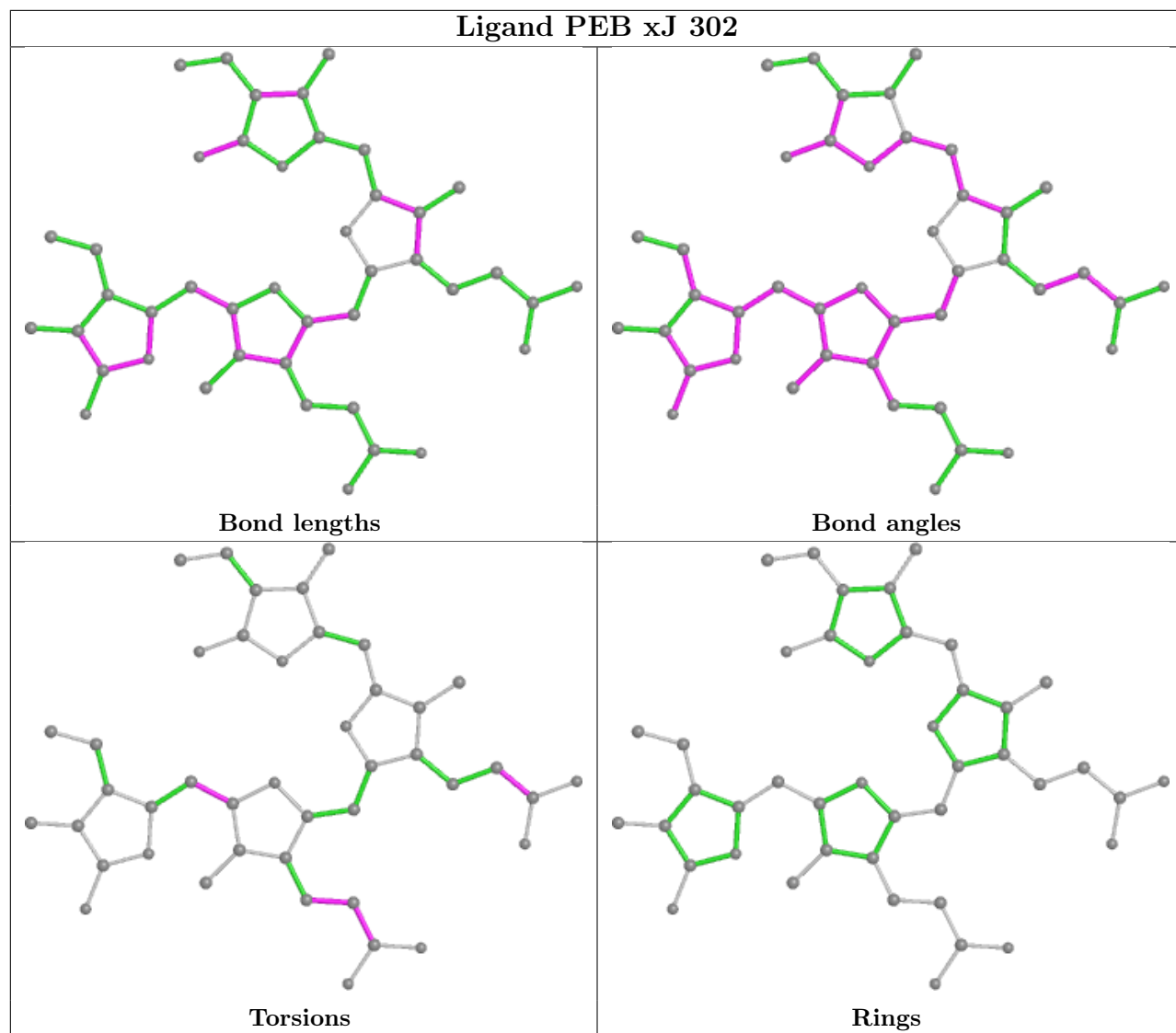


Torsions

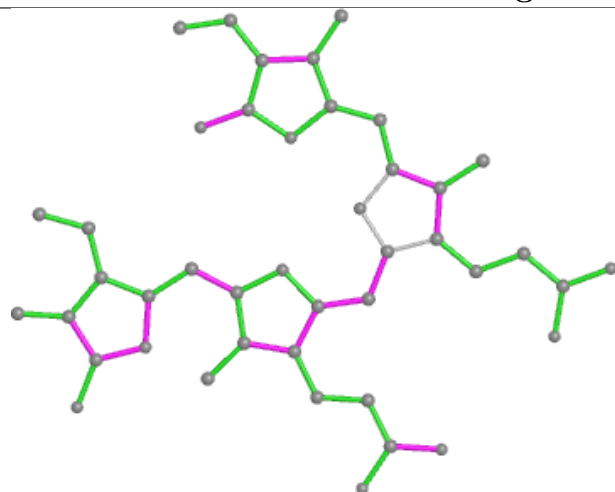


Rings

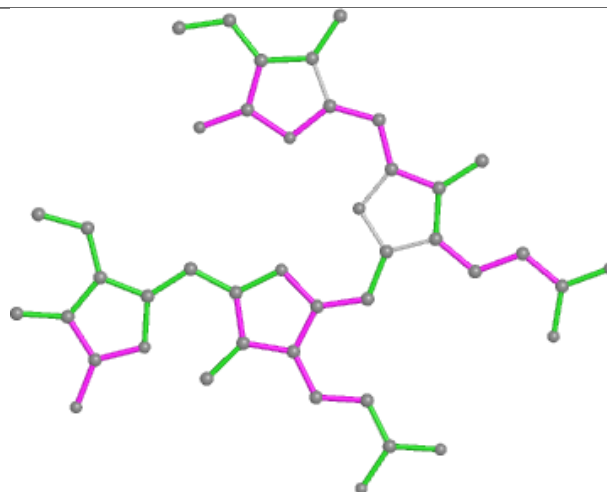




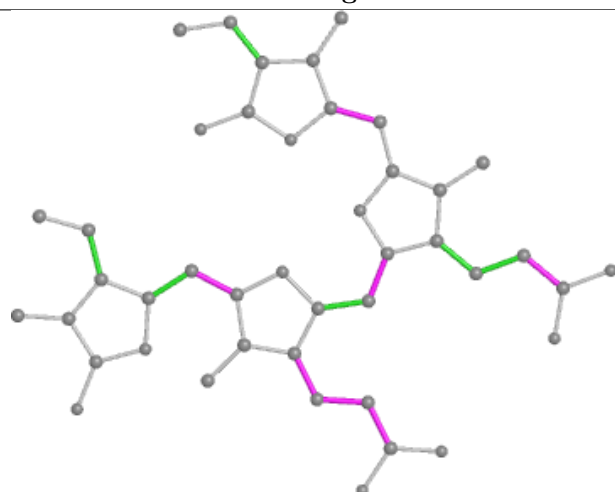
Ligand PEB i7 203



Bond lengths



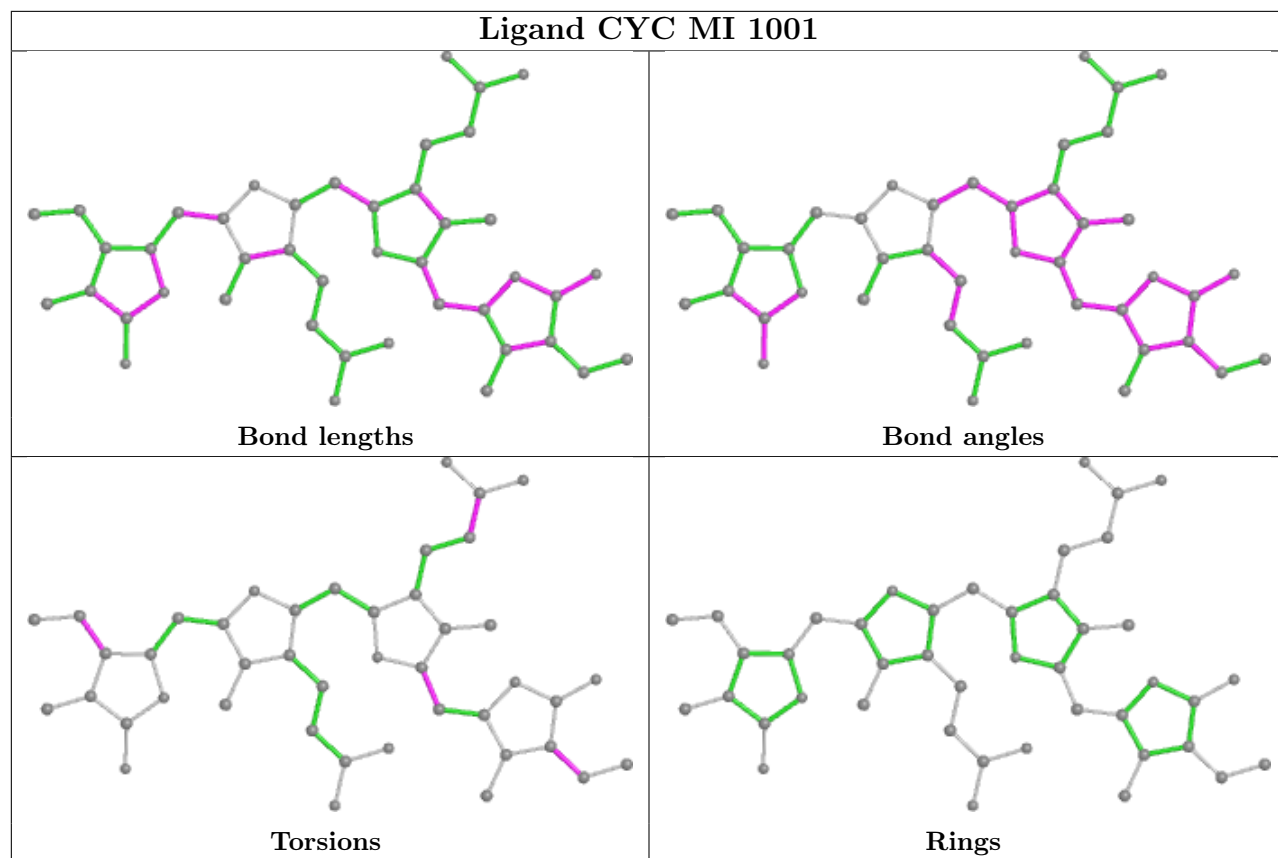
Bond angles

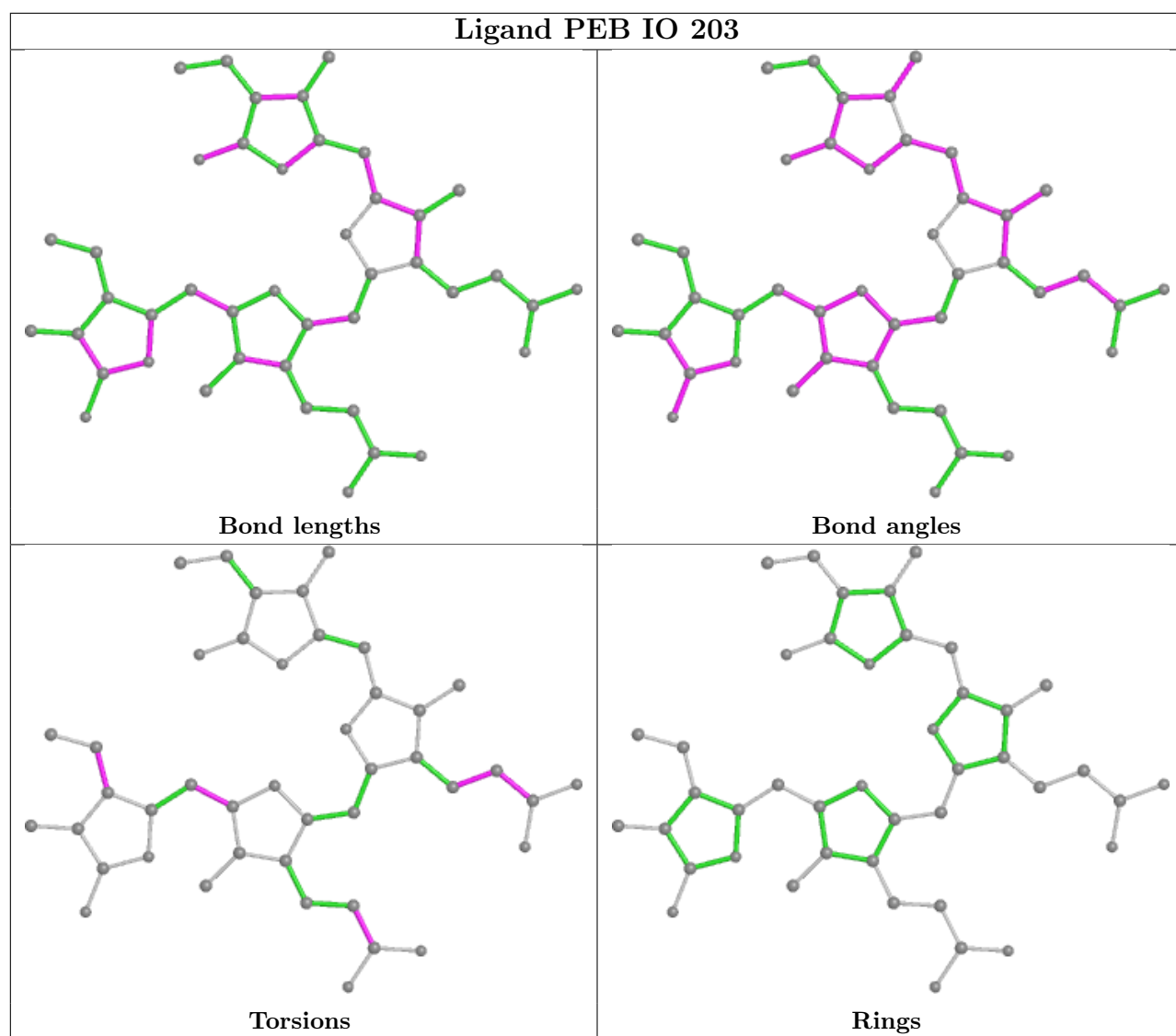


Torsions

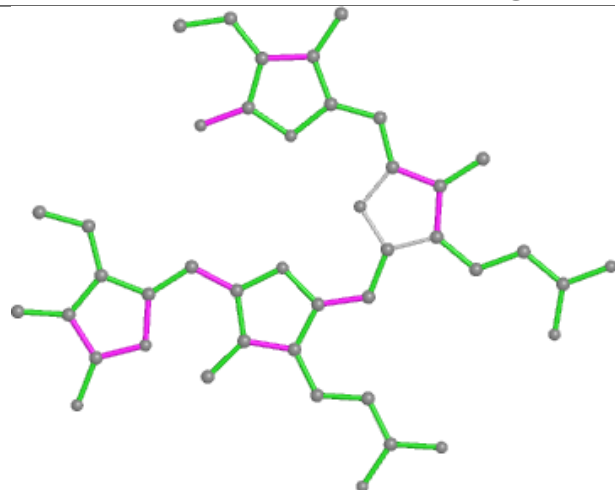


Rings

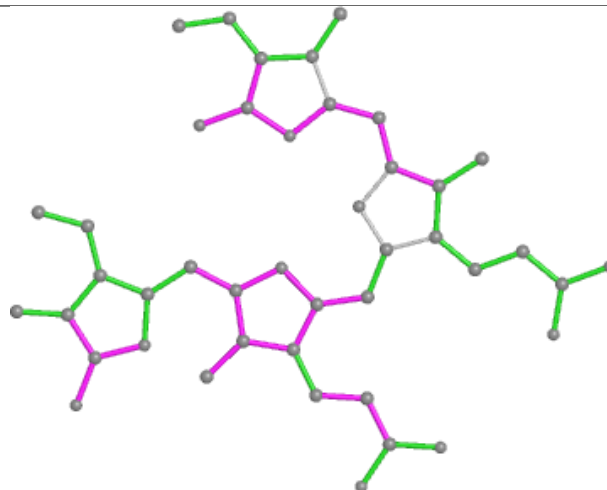




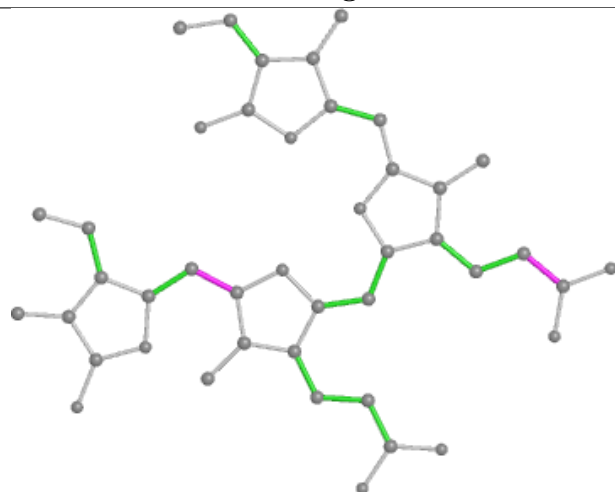
Ligand PEB V7 201



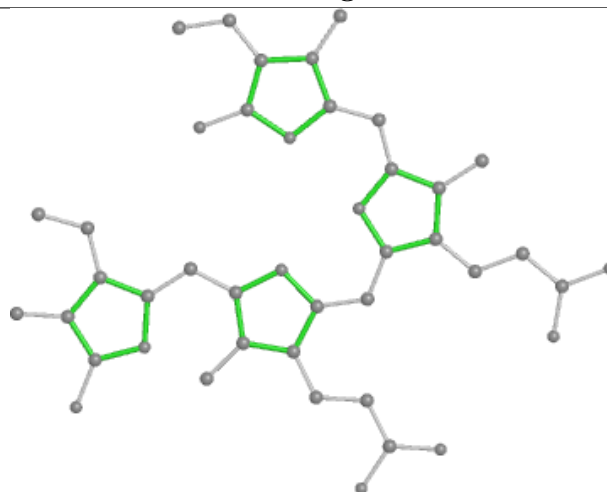
Bond lengths



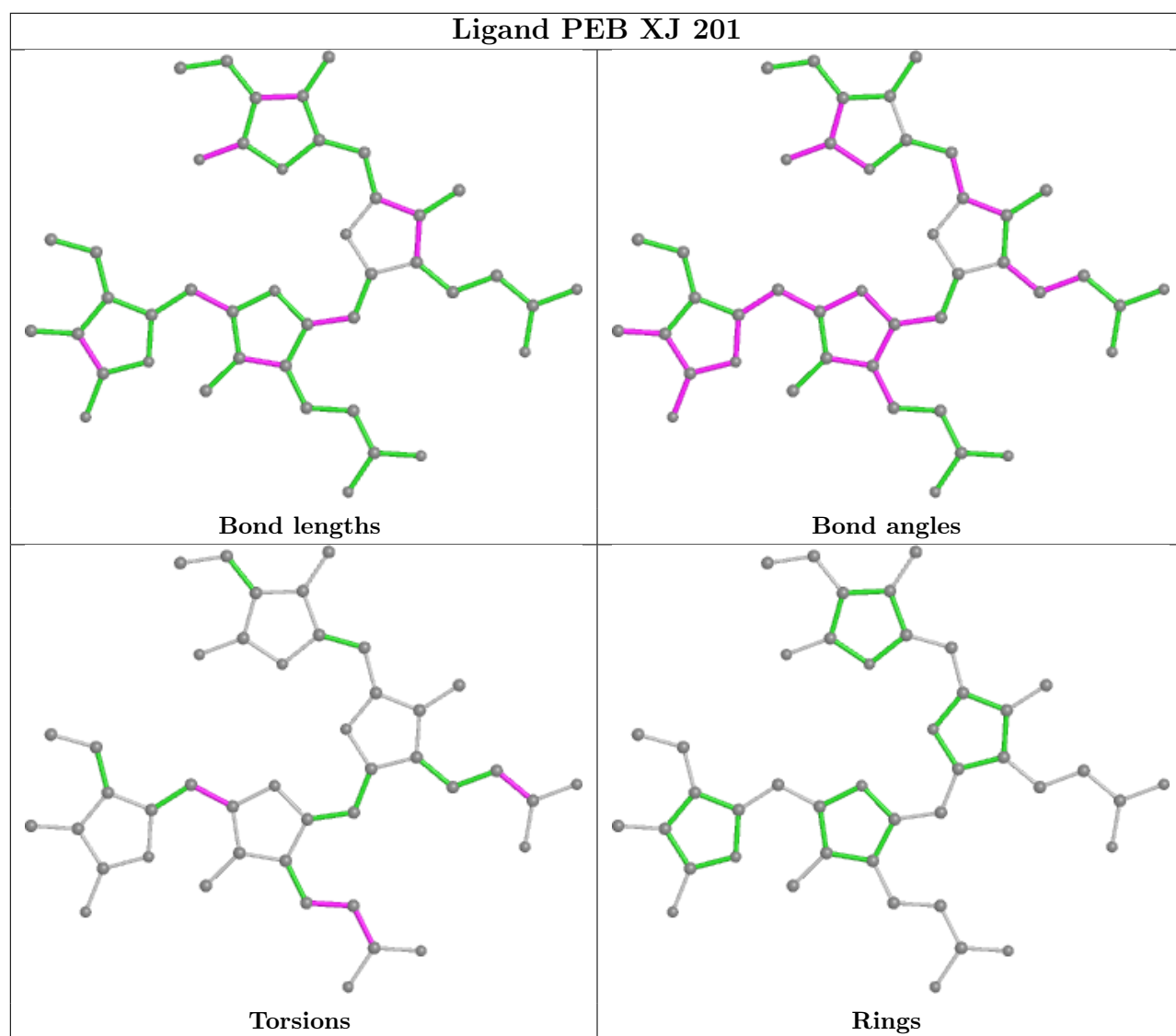
Bond angles



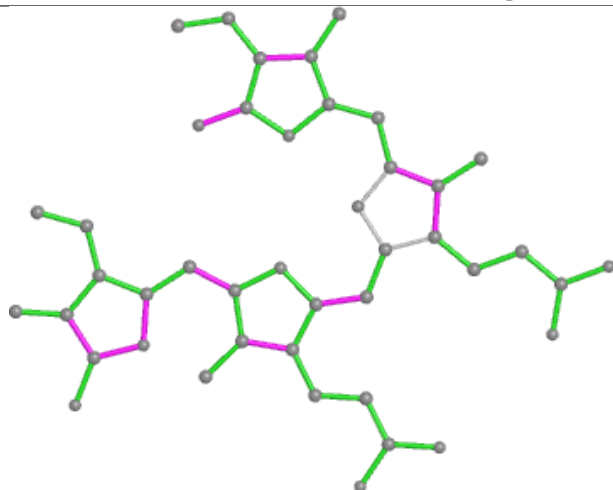
Torsions



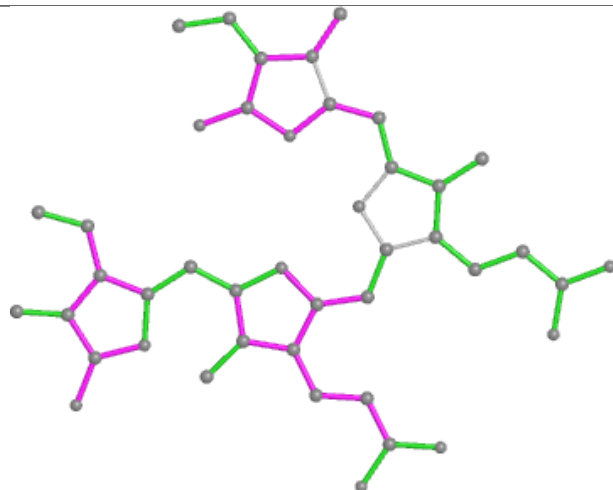
Rings



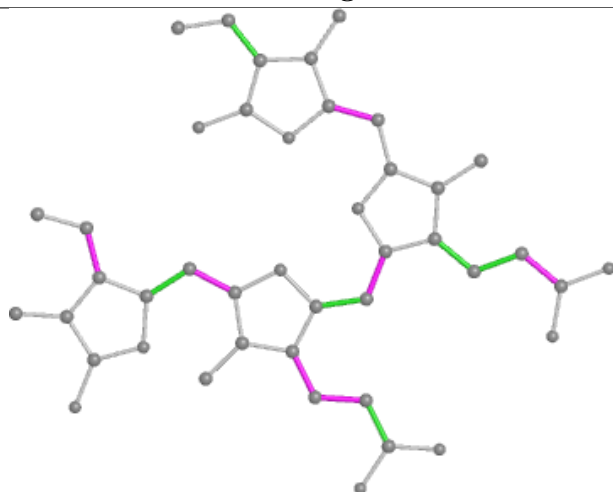
Ligand PEB J9 1002



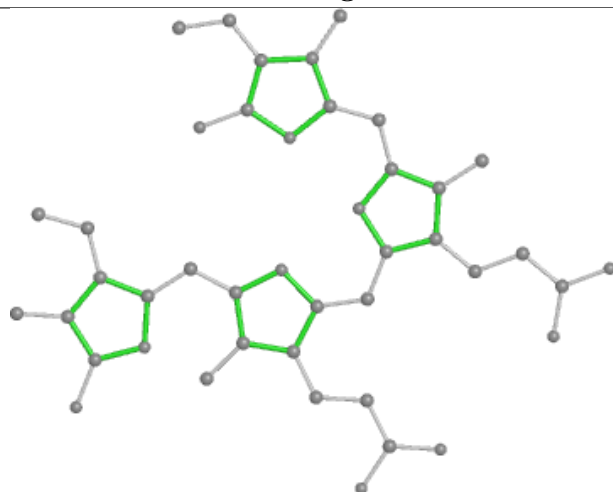
Bond lengths



Bond angles

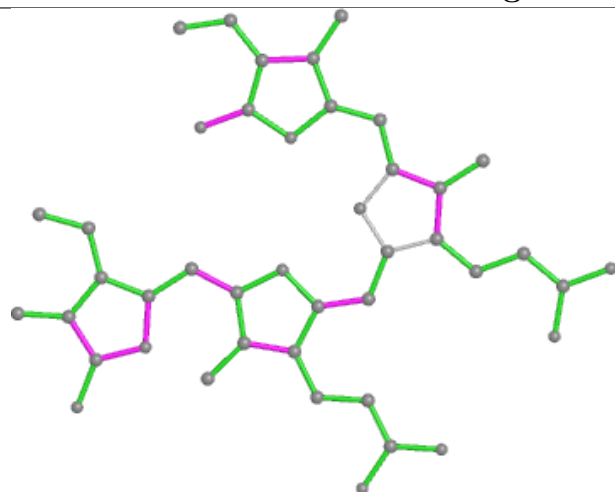


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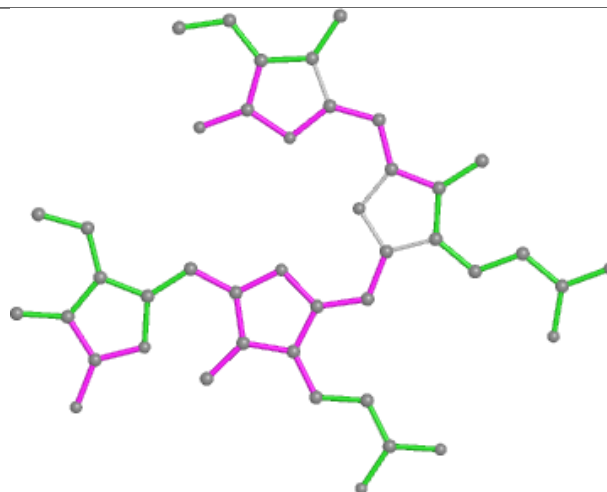


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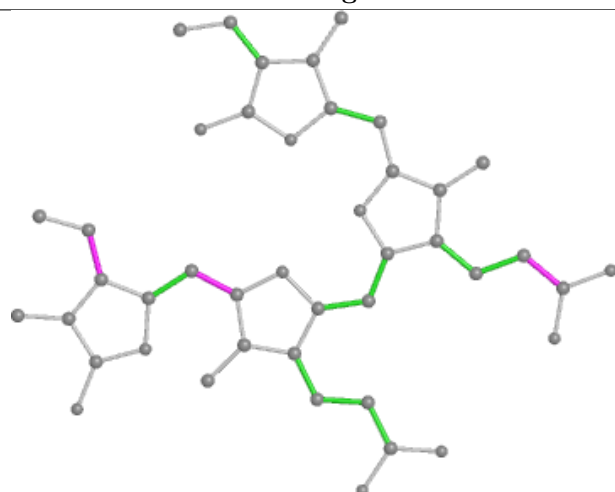
Ligand PEB JM 202



Bond lengths



Bond angles

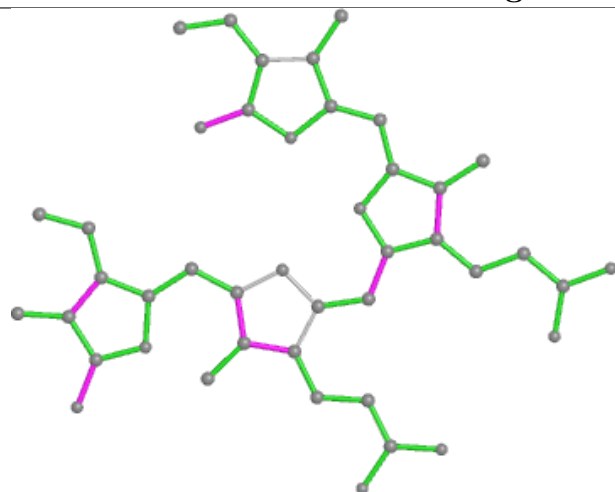


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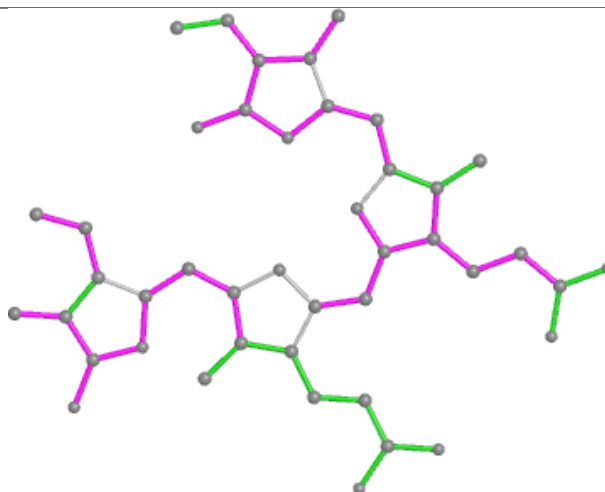


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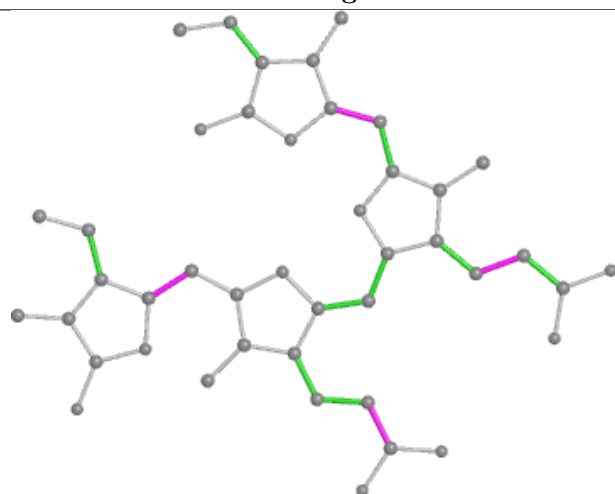
Ligand PUB A9 302



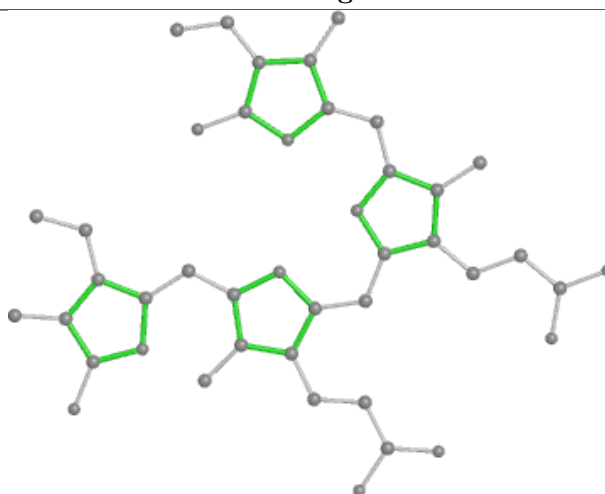
Bond lengths



Bond angles

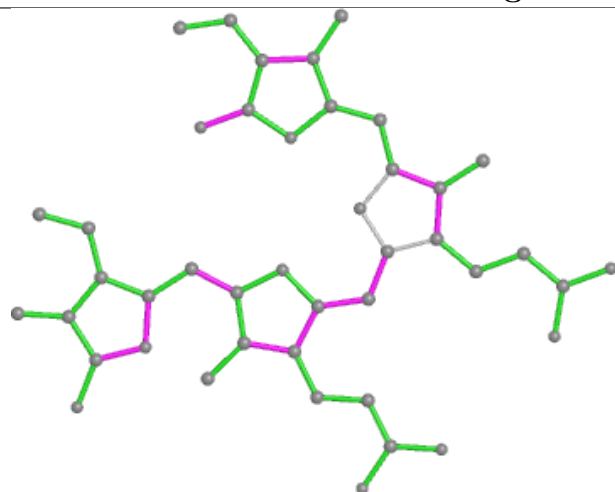


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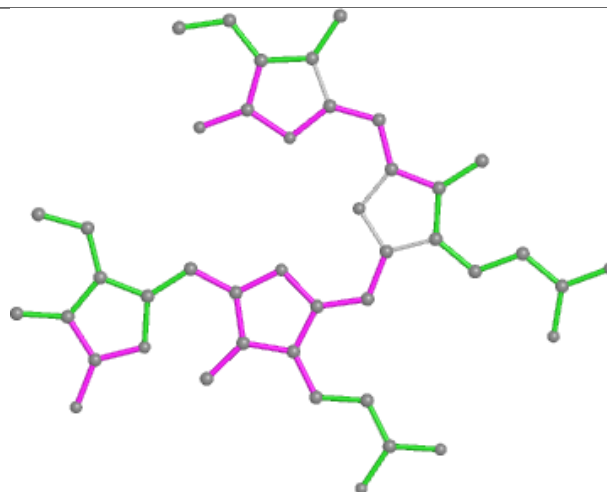


Rings

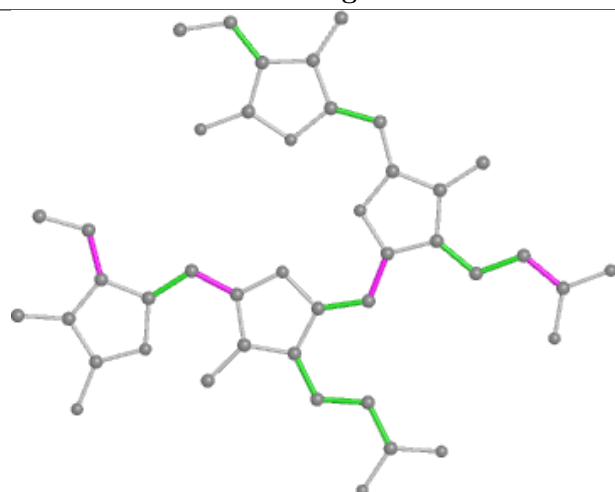
Ligand PEB AE 203



Bond lengths



Bond angles

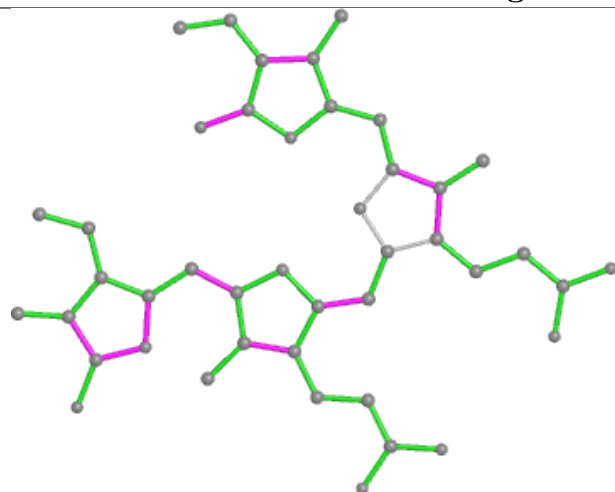


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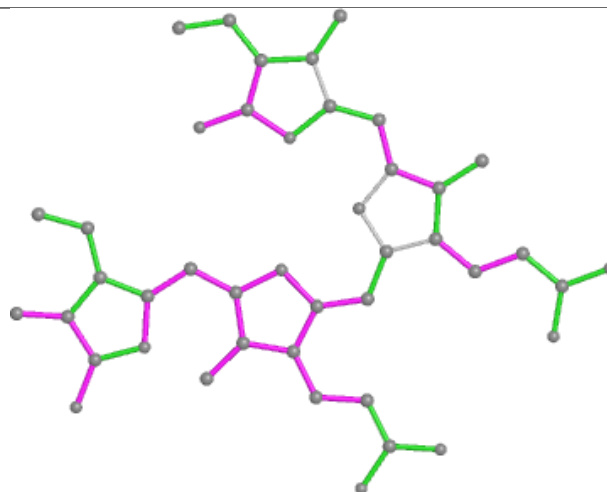


Rings

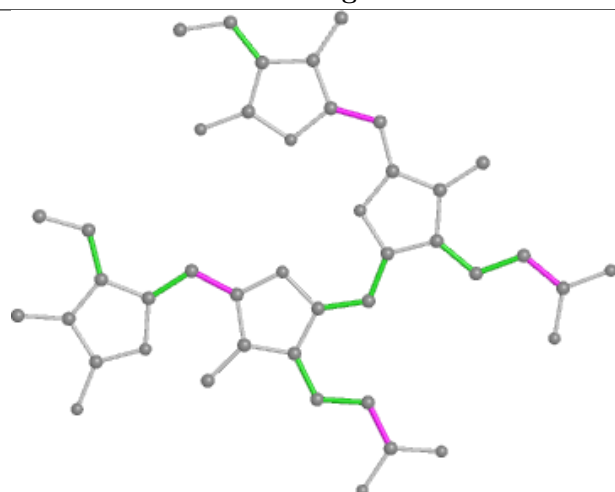
Ligand PEB U1 202



Bond lengths



Bond angles

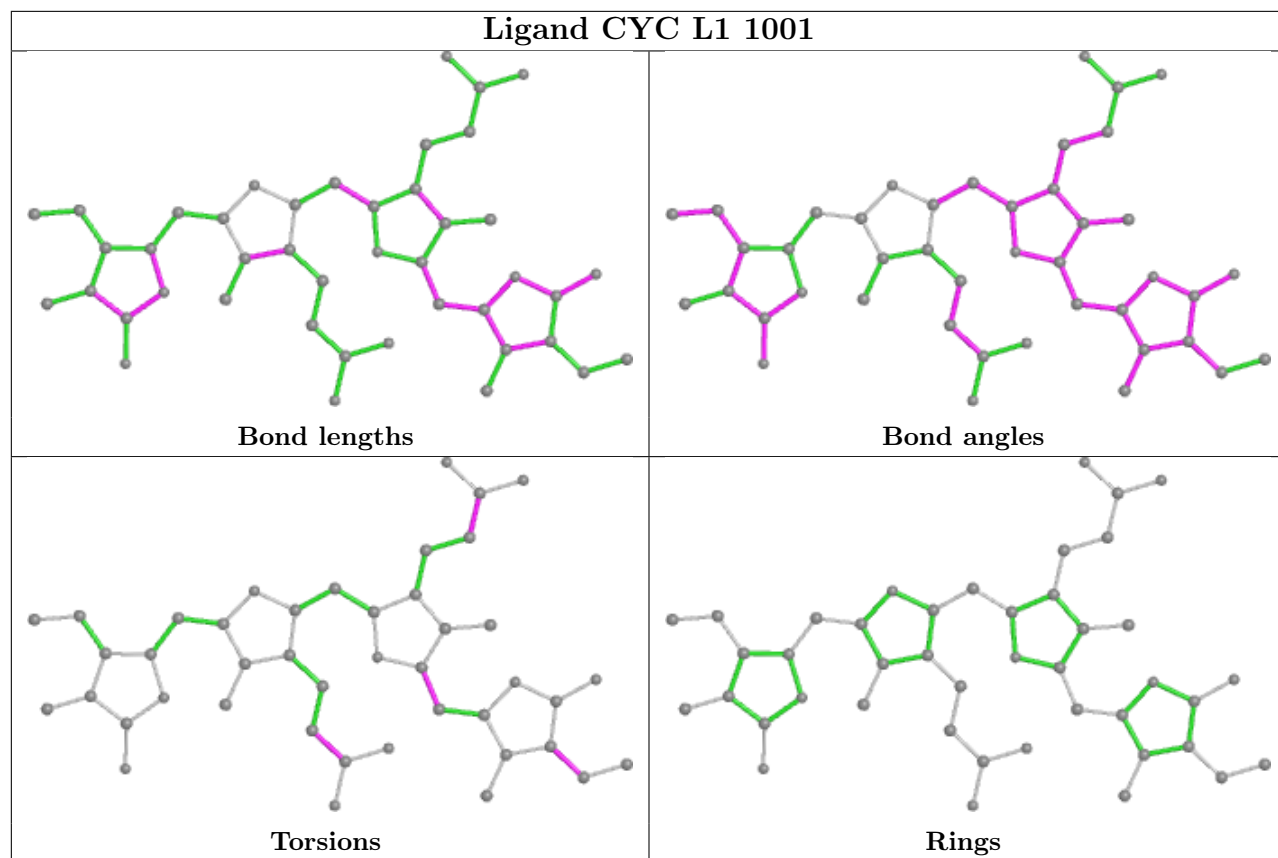


Torsions

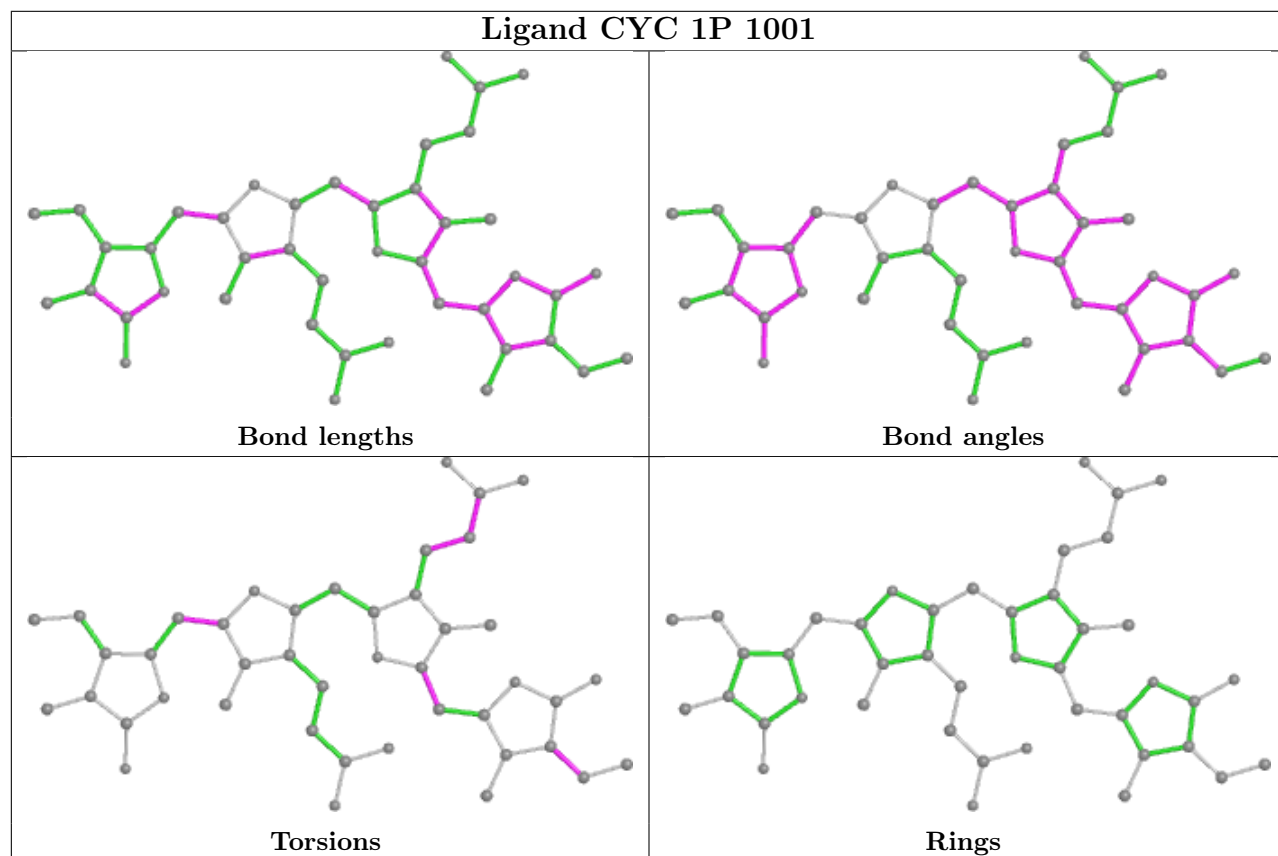


Rings

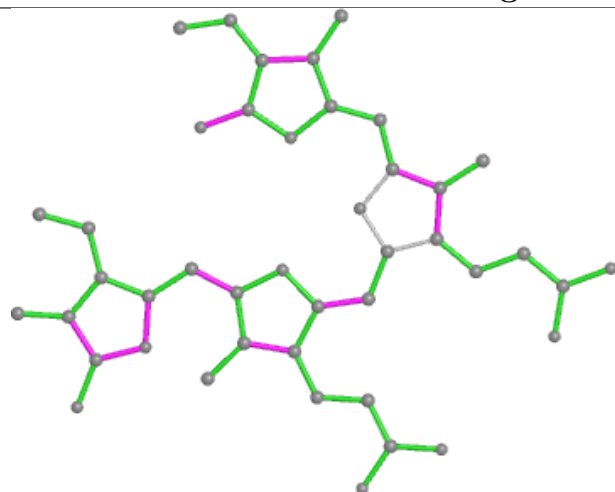
Ligand CYC L1 1001



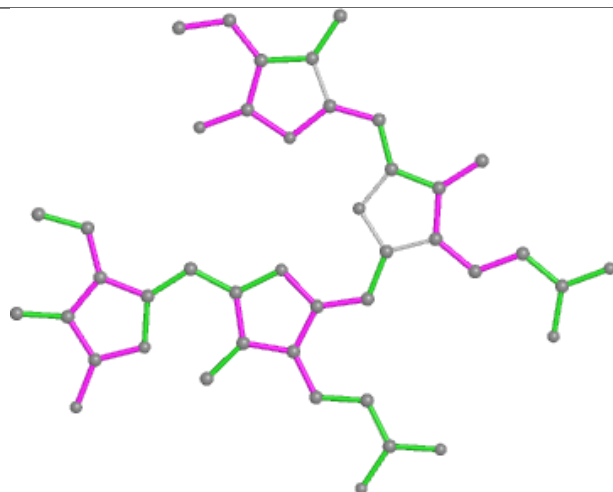
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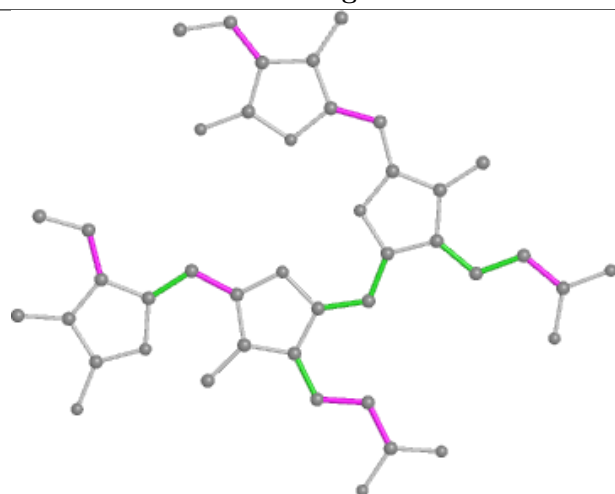
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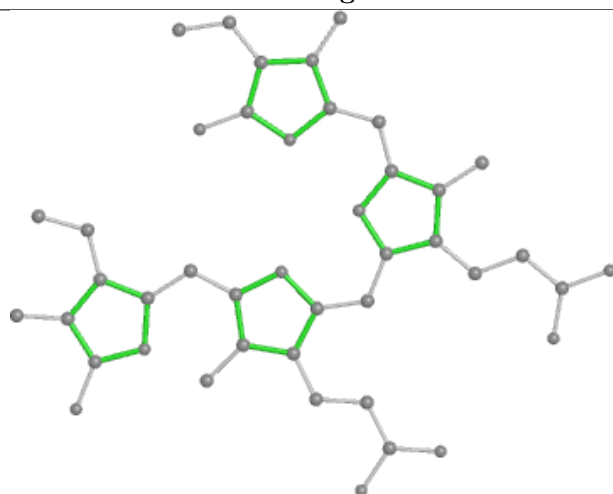
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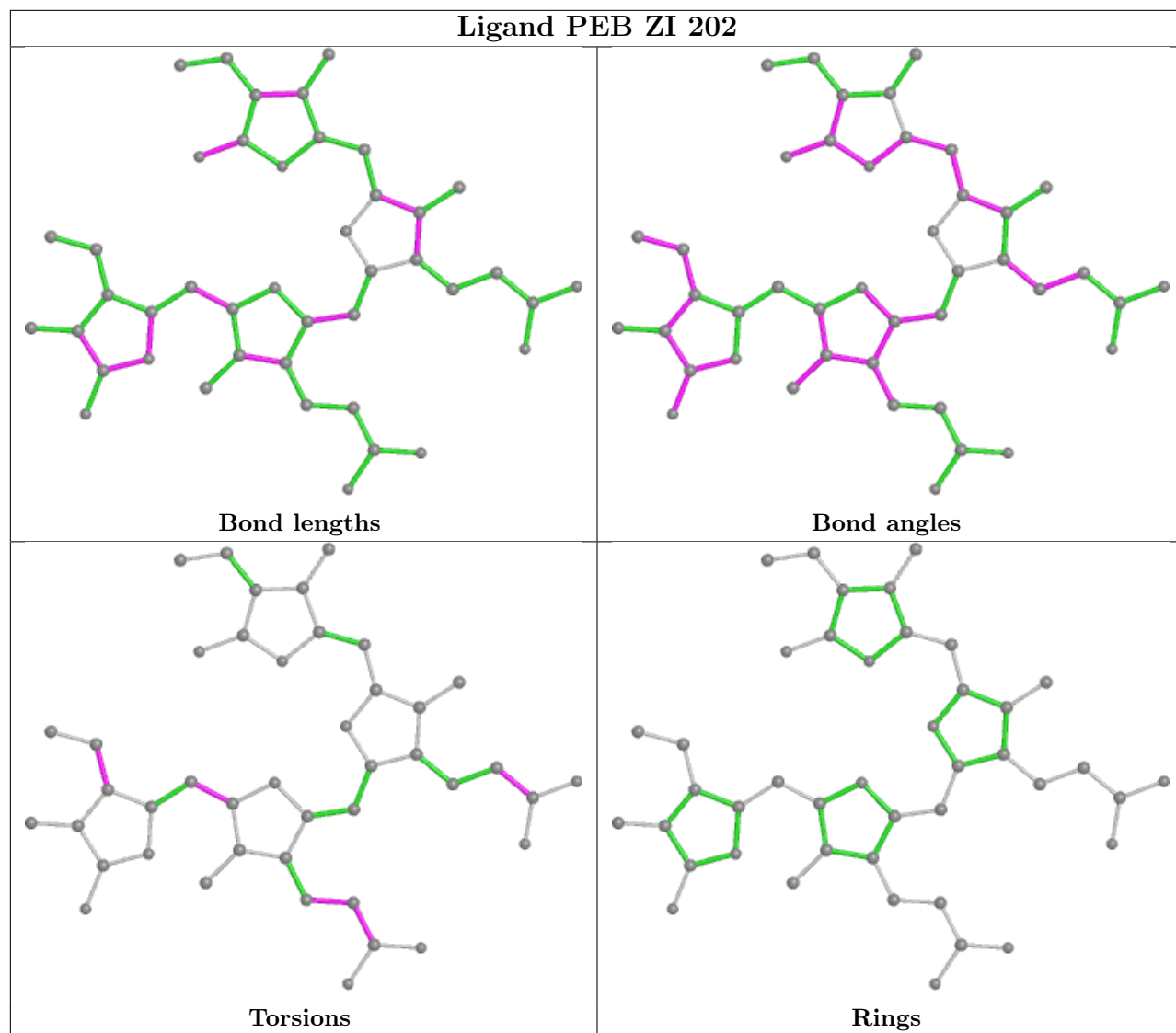
Bond angles



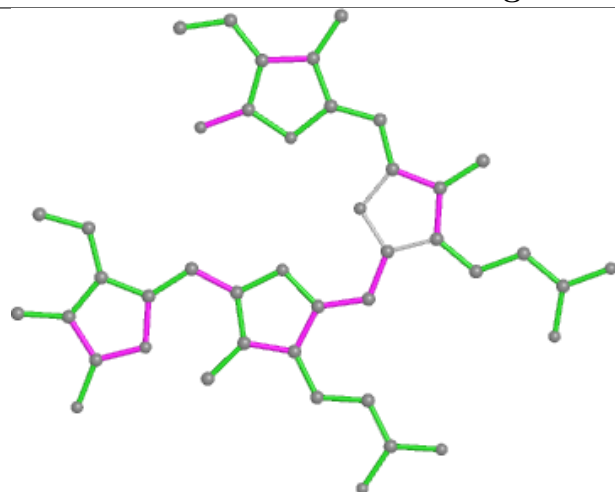
Torsions



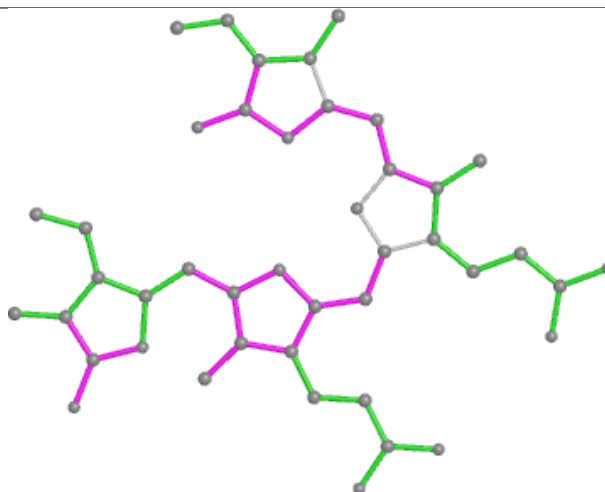
Rings



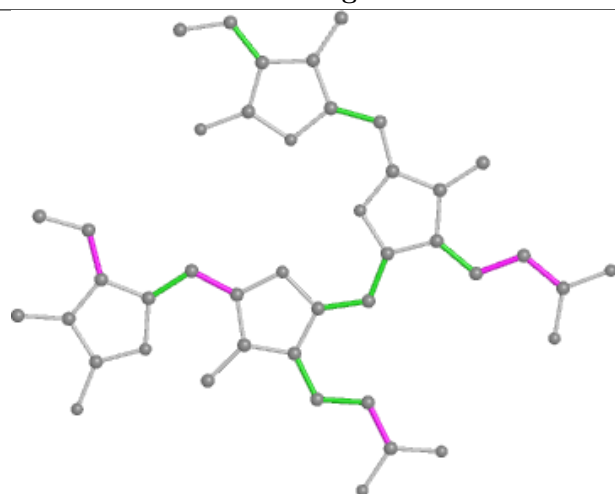
Ligand PEB AO 202



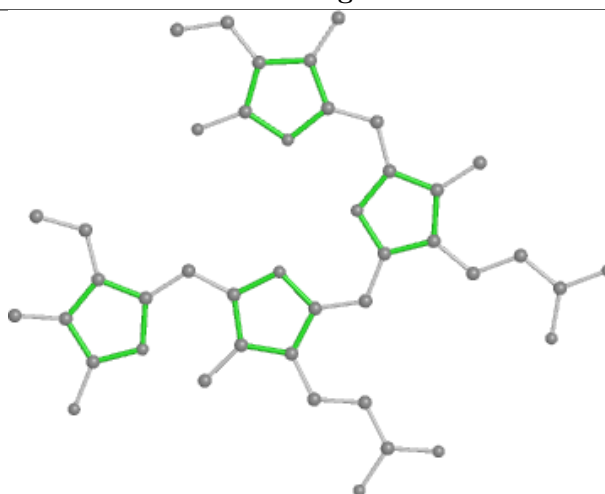
Bond lengths



Bond angles

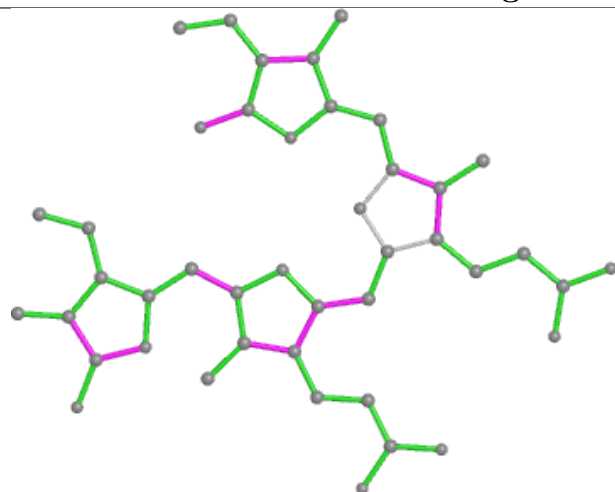


Torsions

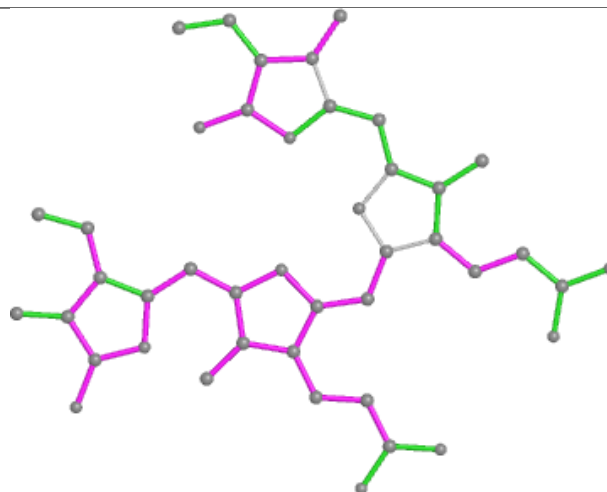


Rings

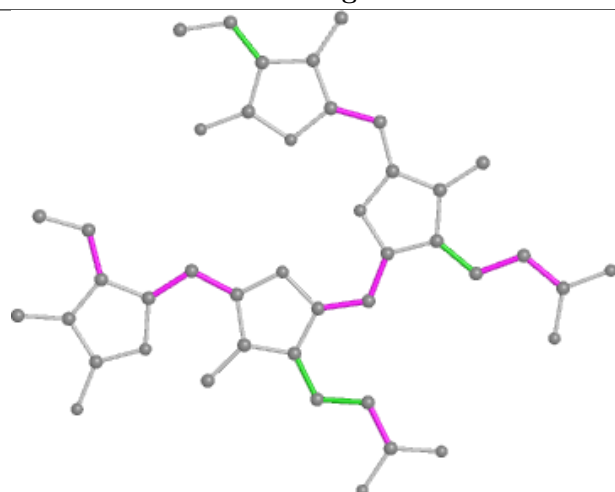
Ligand PEB GA 202



Bond lengths



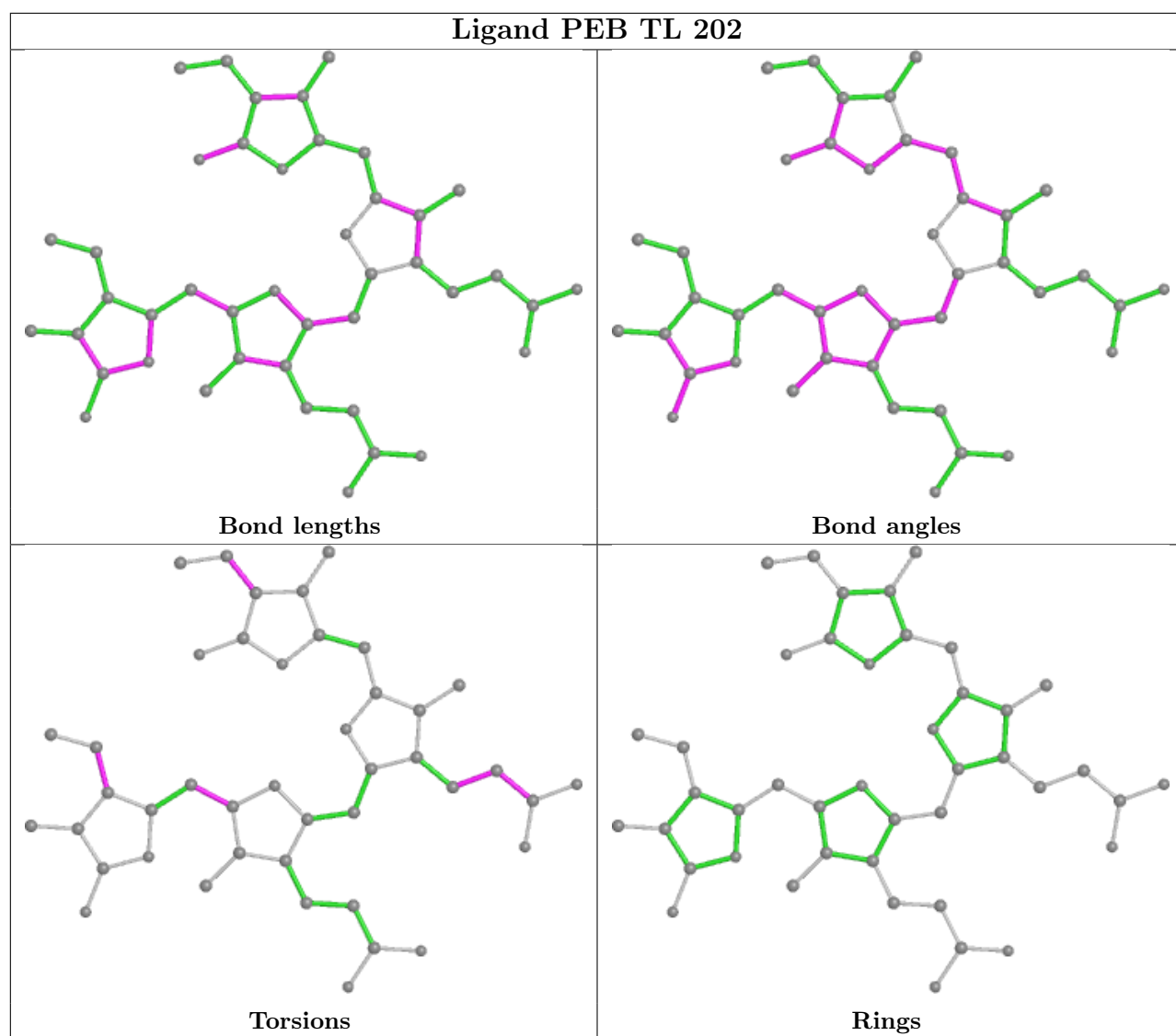
Bond angles



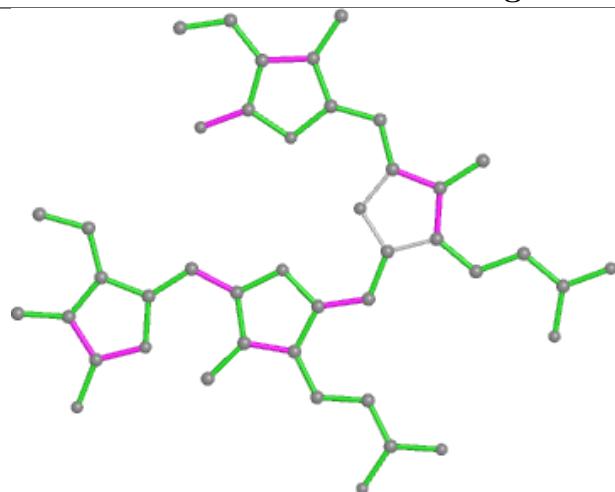
Torsions



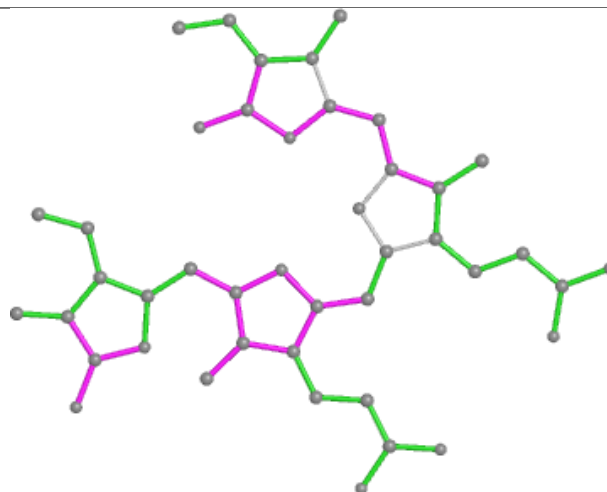
Rings



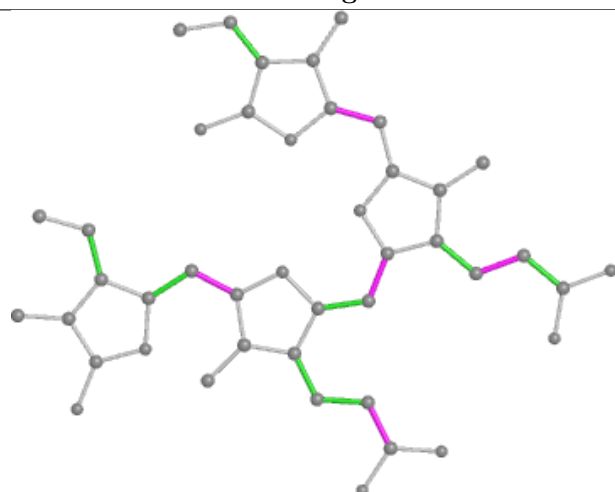
Ligand PEB HE 203



Bond lengths



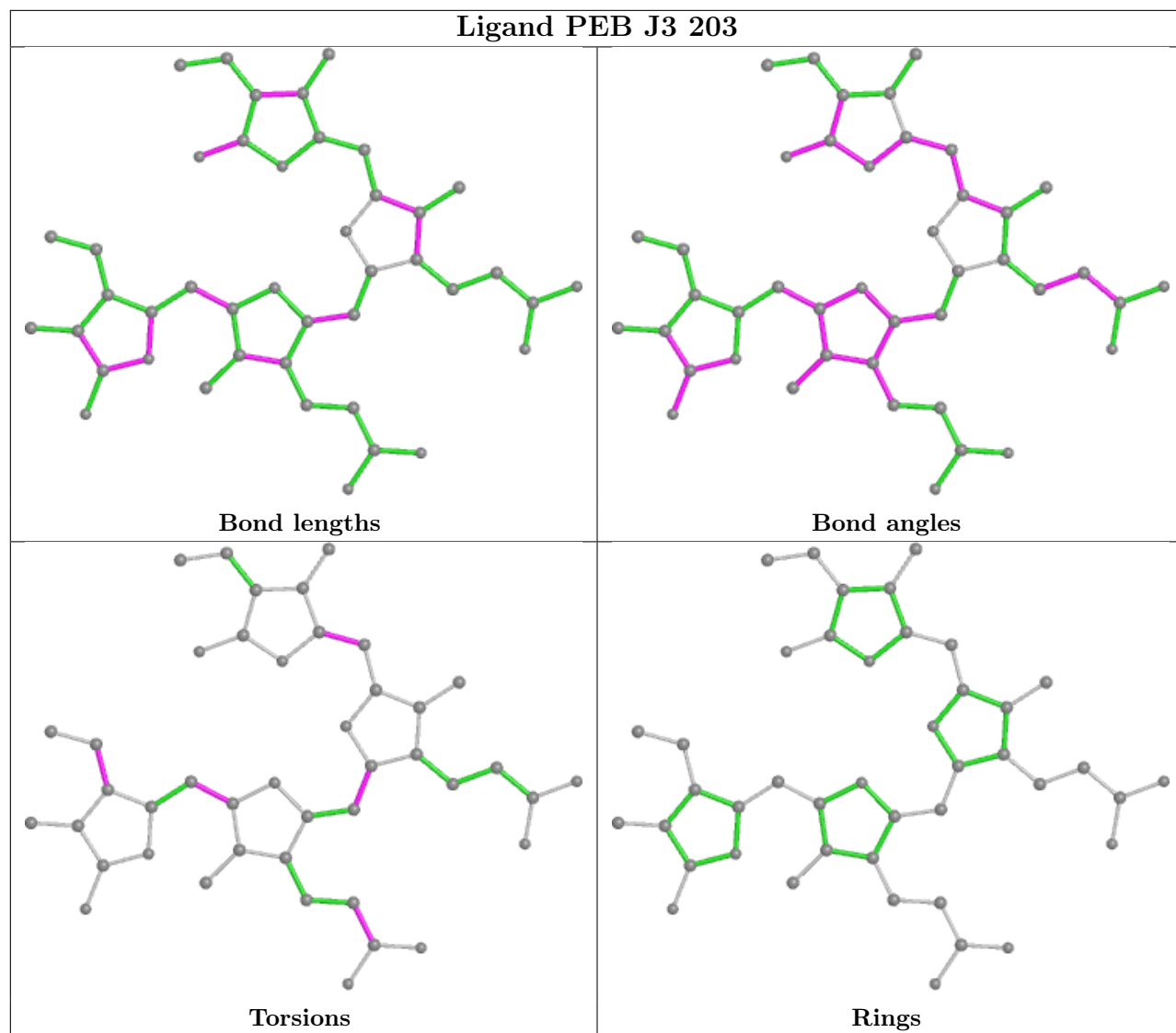
Bond angles

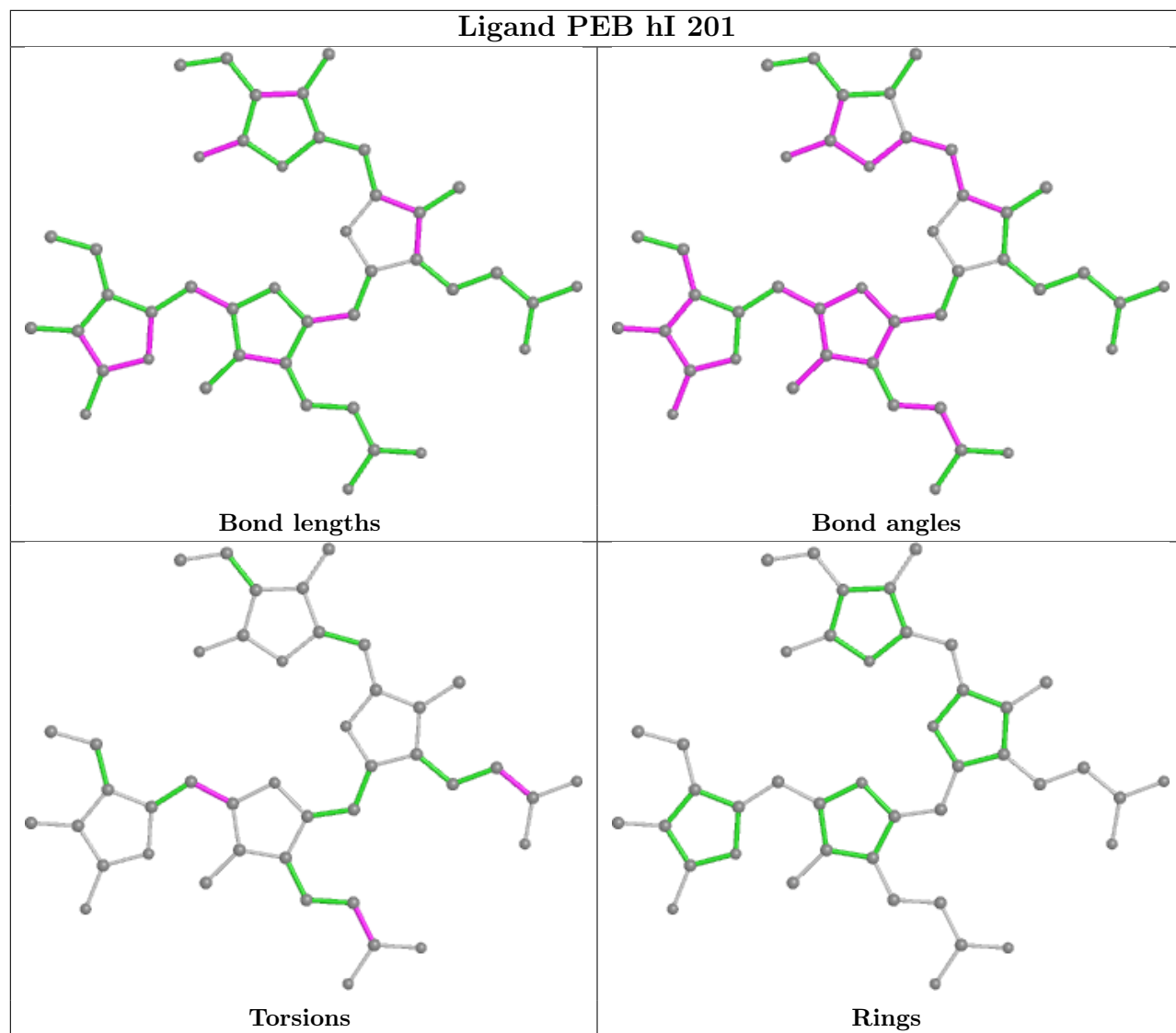


Torsions

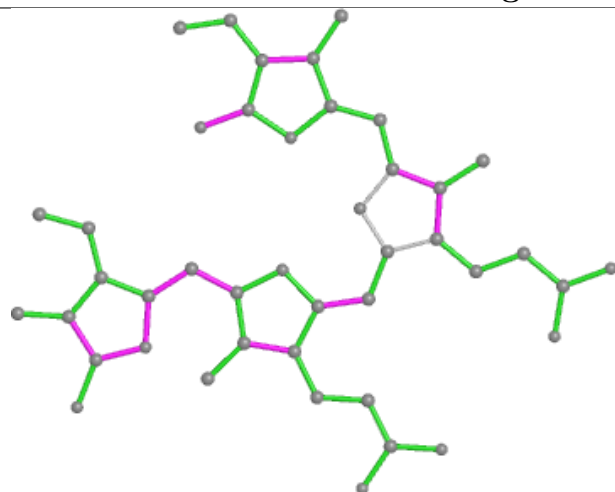


Rings

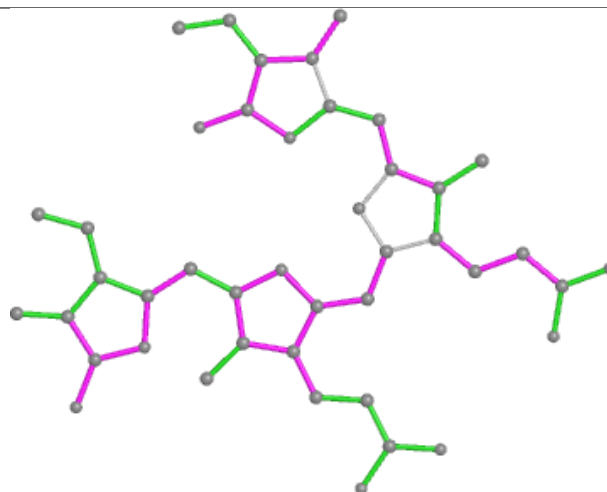




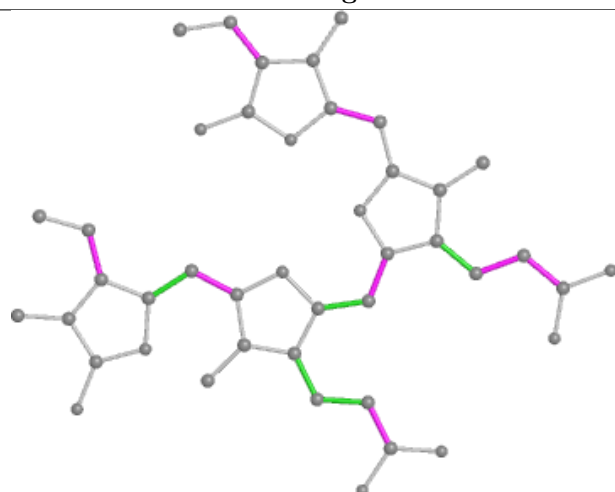
Ligand PEB GD 202



Bond lengths



Bond angles

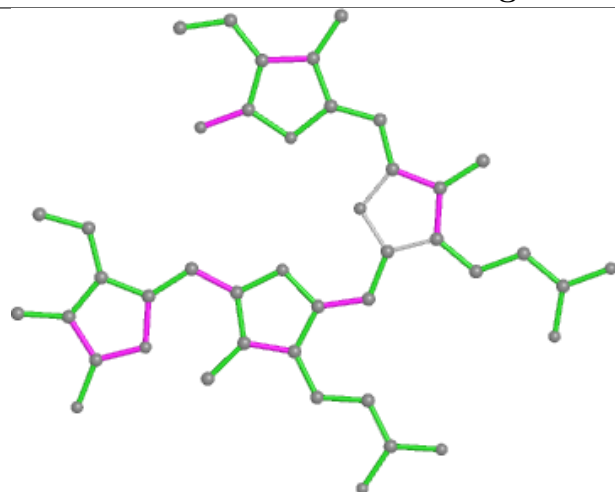


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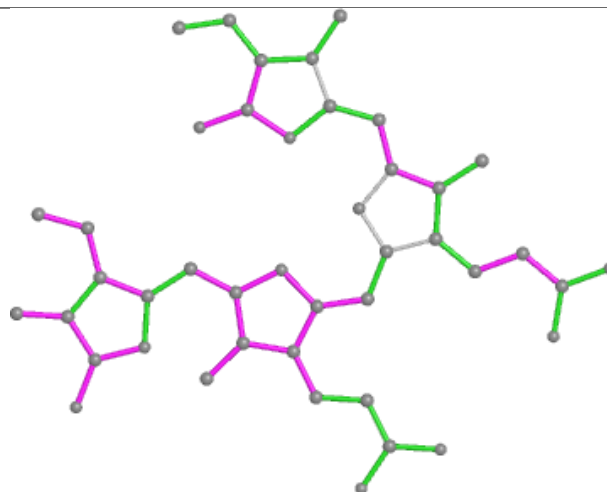


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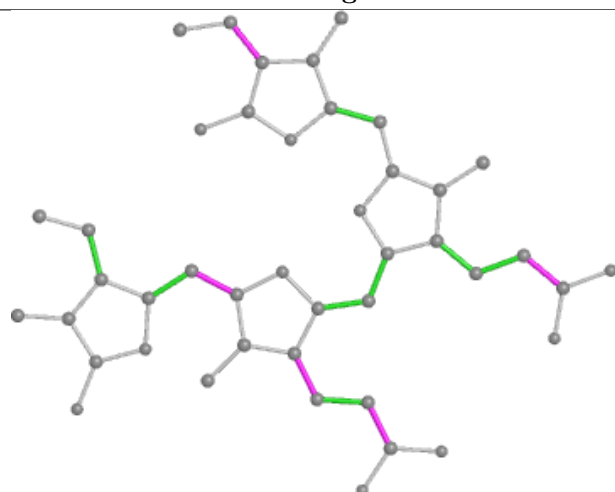
Ligand PEB MD 201



Bond lengths



Bond angles

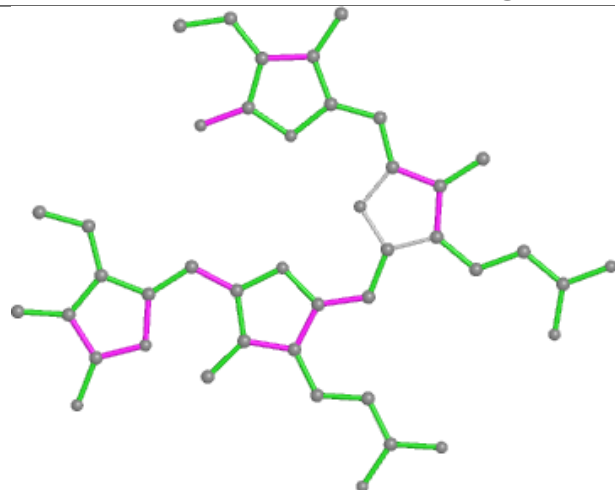


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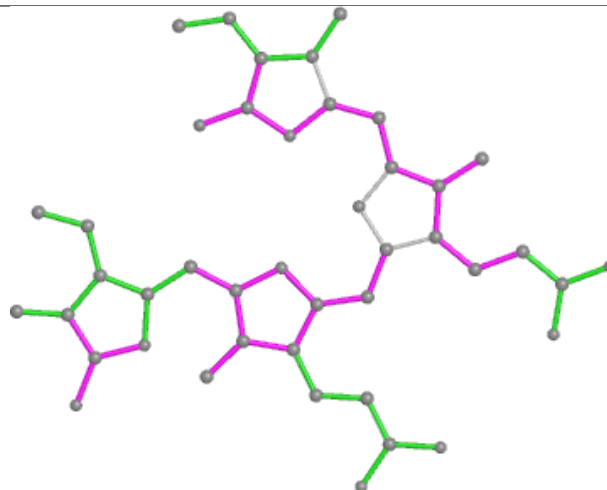


Rings

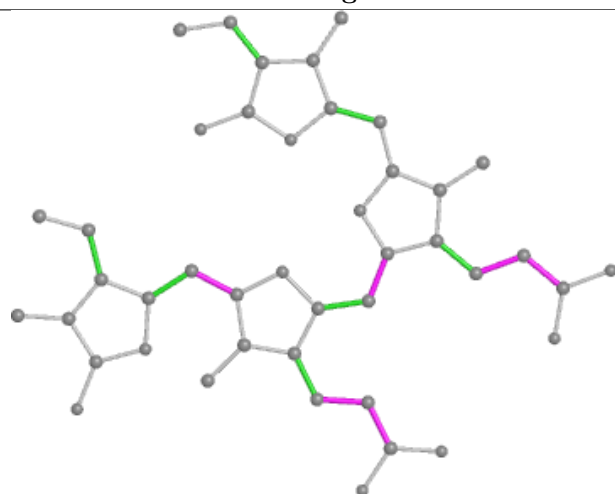
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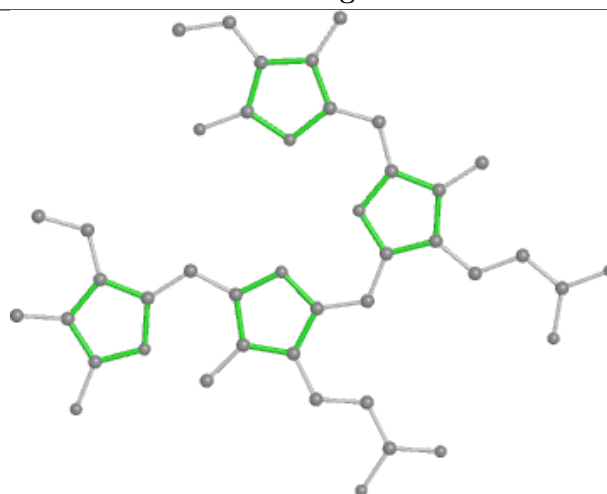
Bond lengths



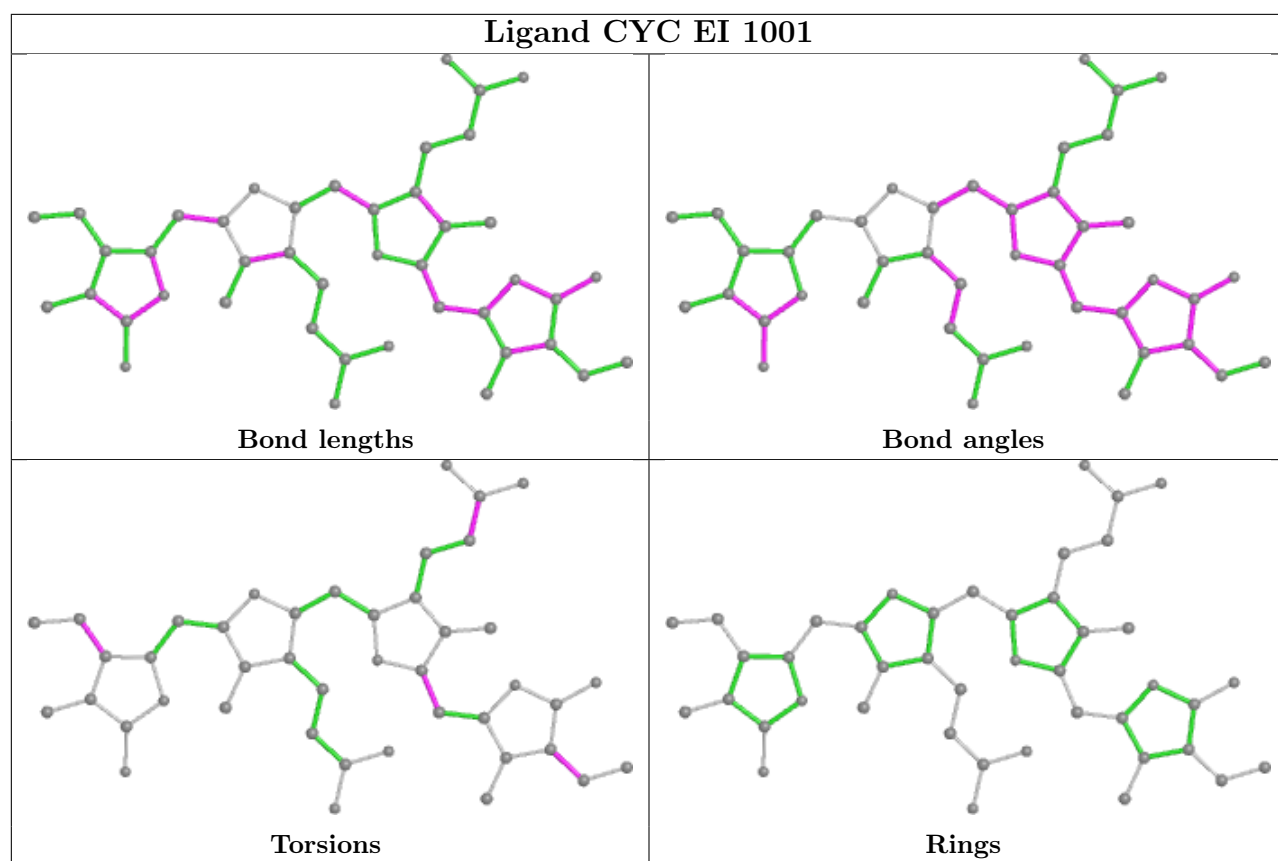
Bond angles



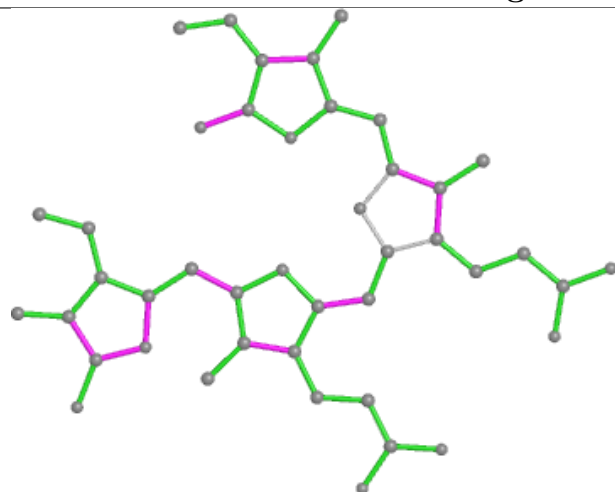
Torsions



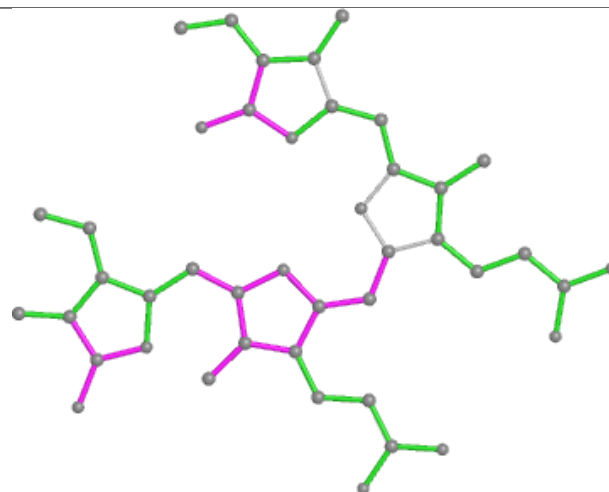
Rings



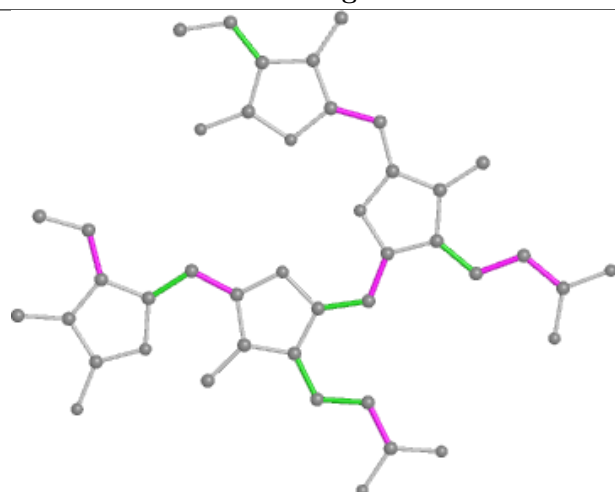
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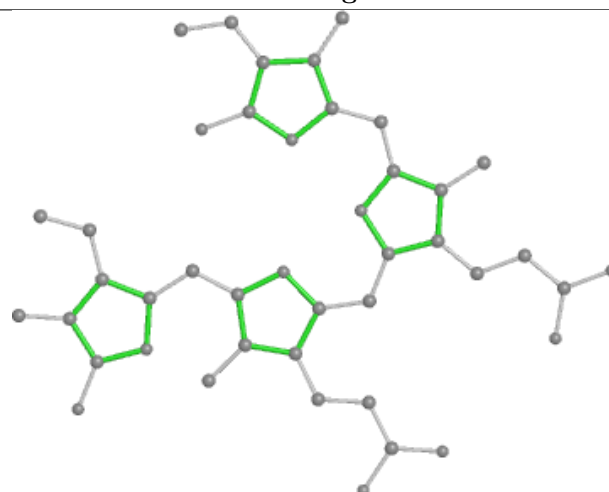
Bond lengths



Bond angles

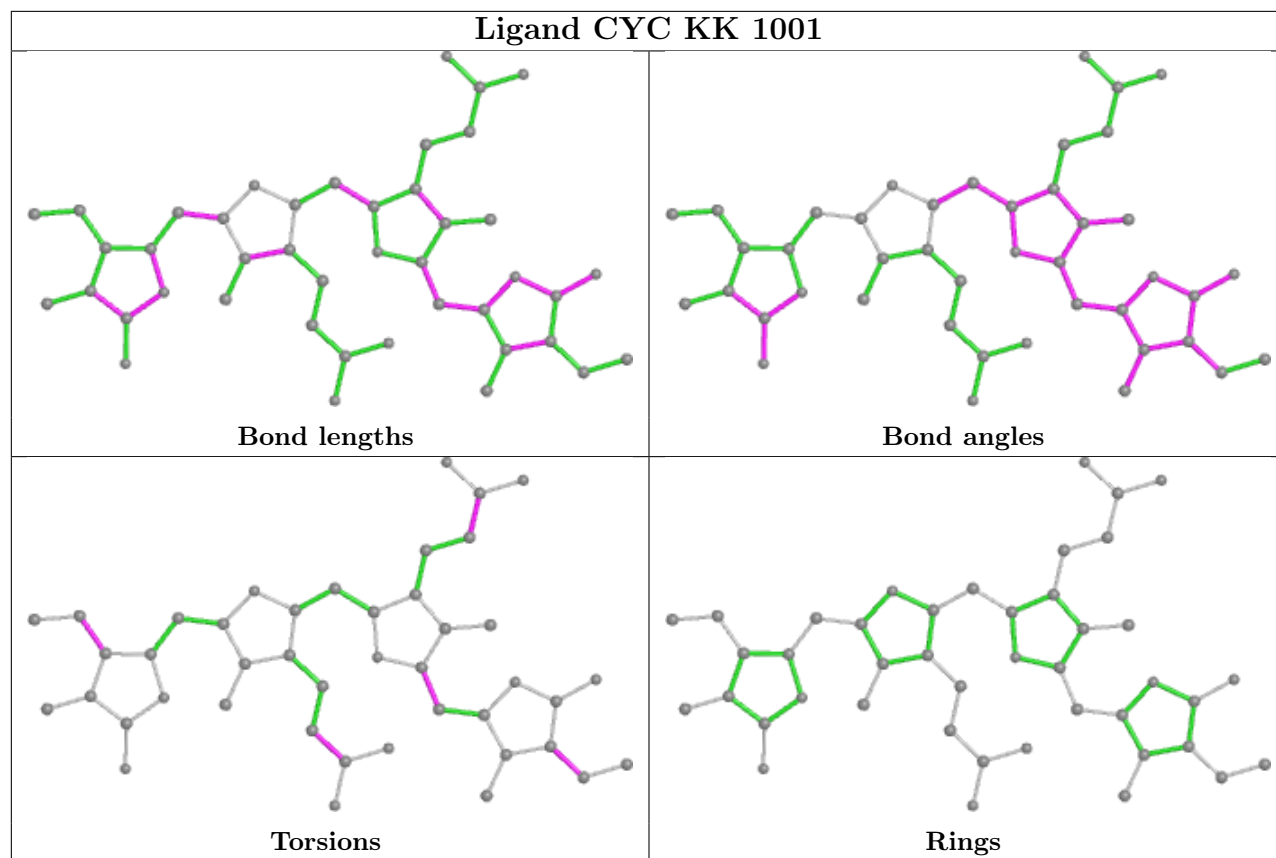


Torsions

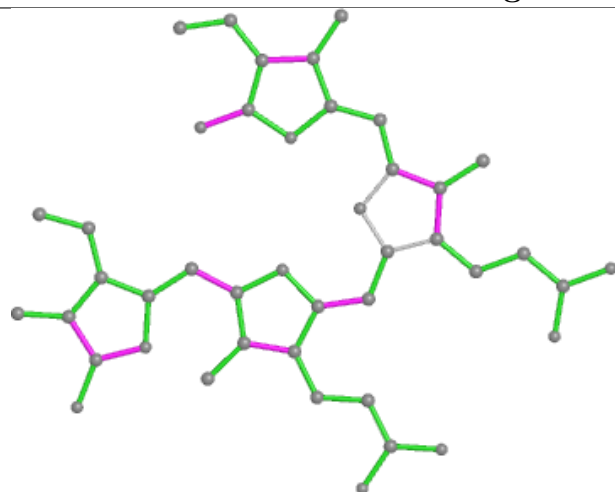


Rings

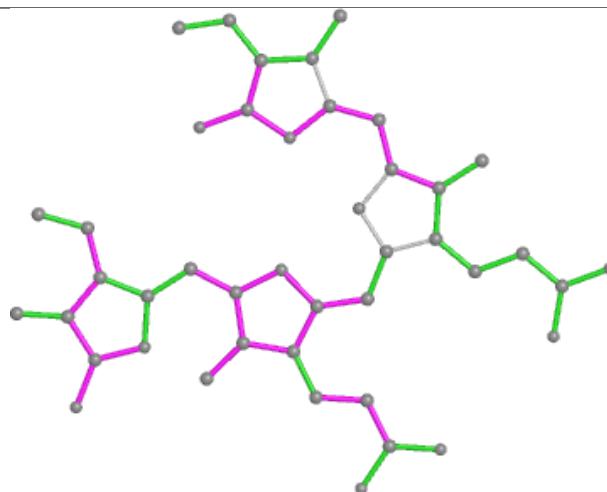
Ligand CYC KK 1001



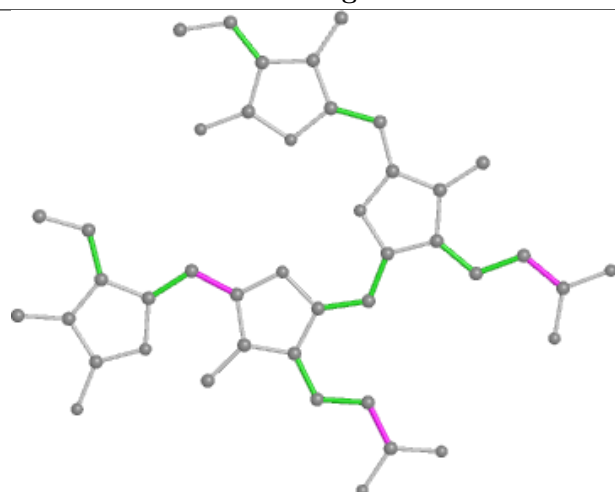
Ligand PEB M3 201



Bond lengths



Bond angles

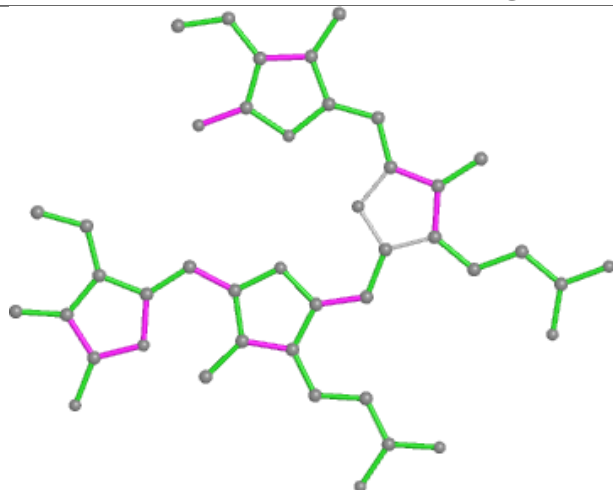


Torsions

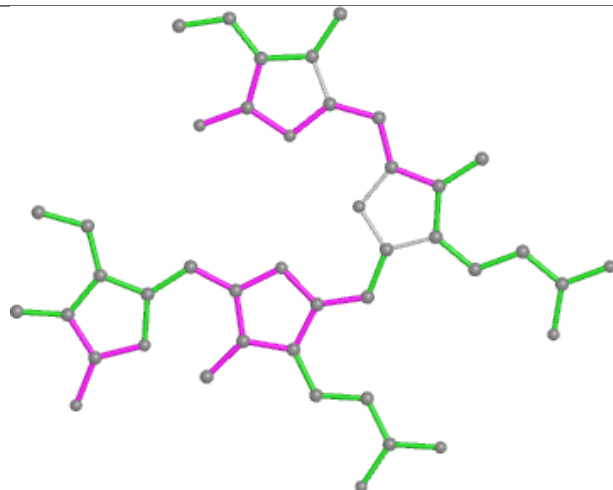


Rings

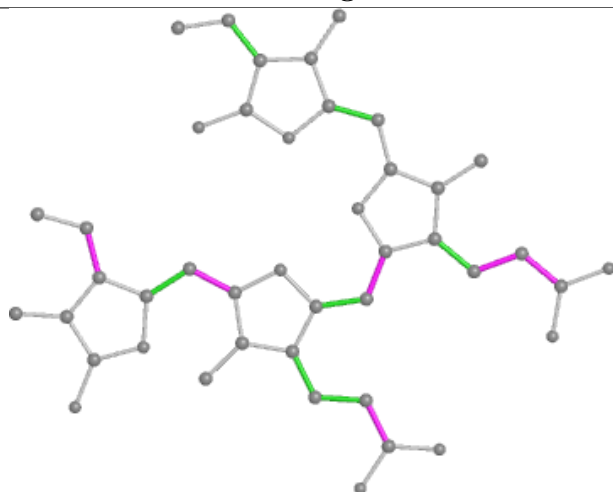
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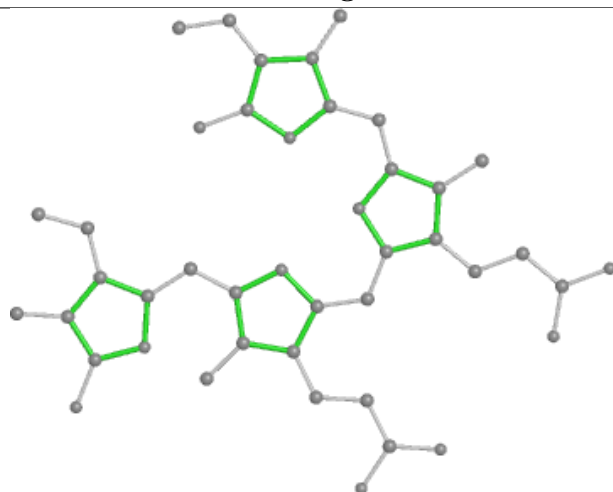
Bond lengths



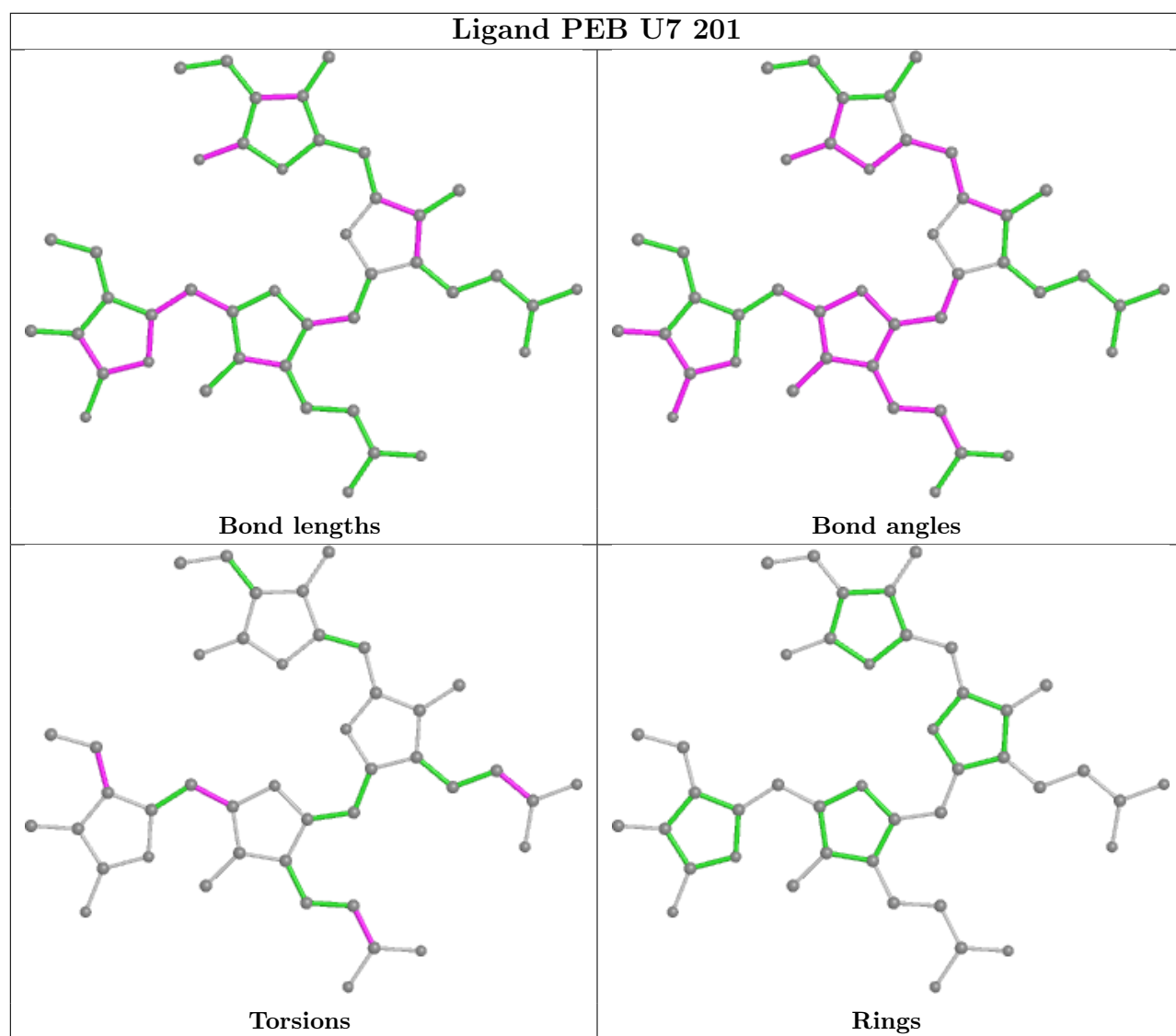
Bond angles



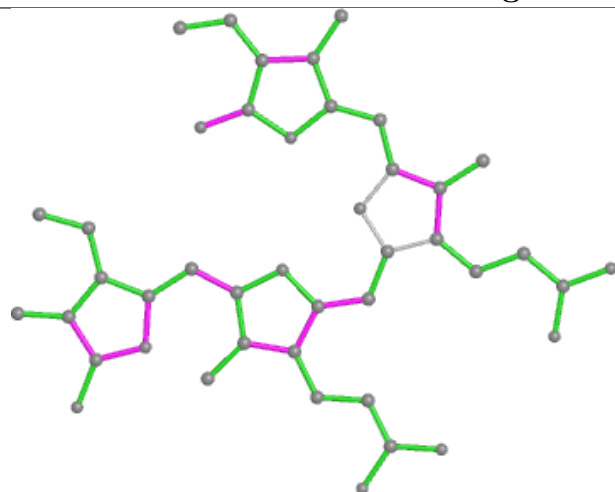
Torsions



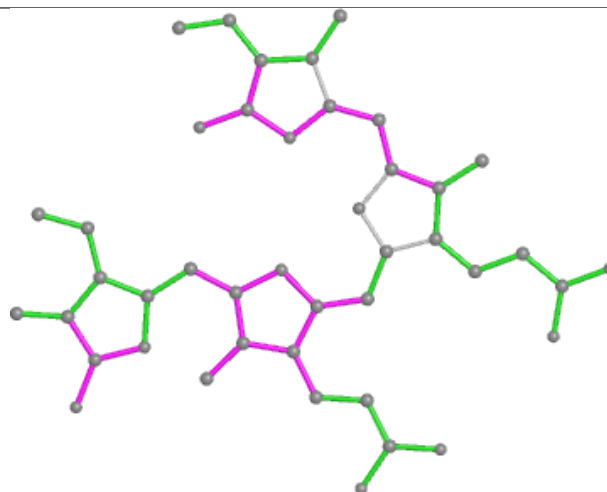
Rings



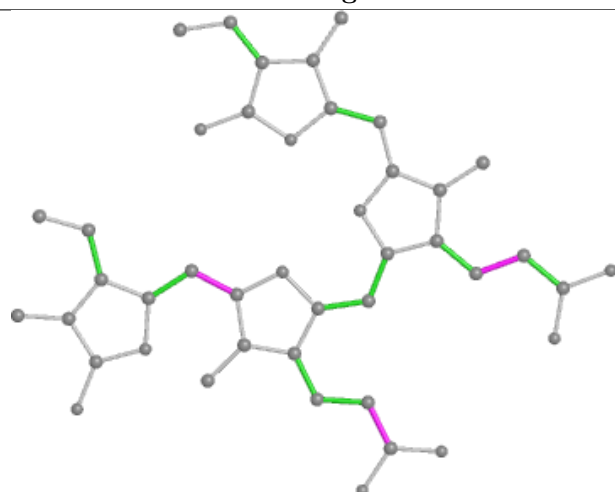
Ligand PEB DO 201



Bond lengths



Bond angles

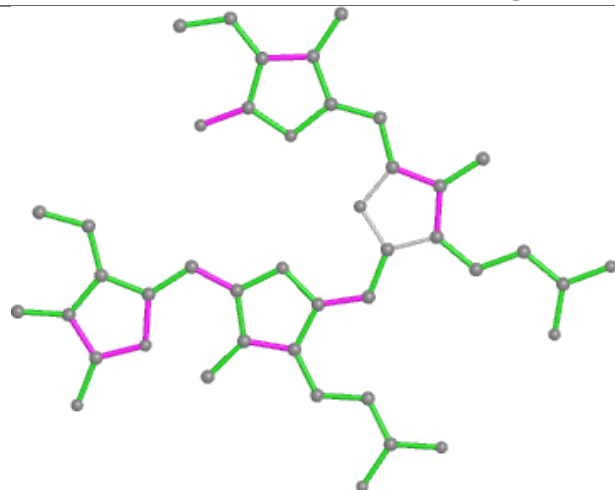


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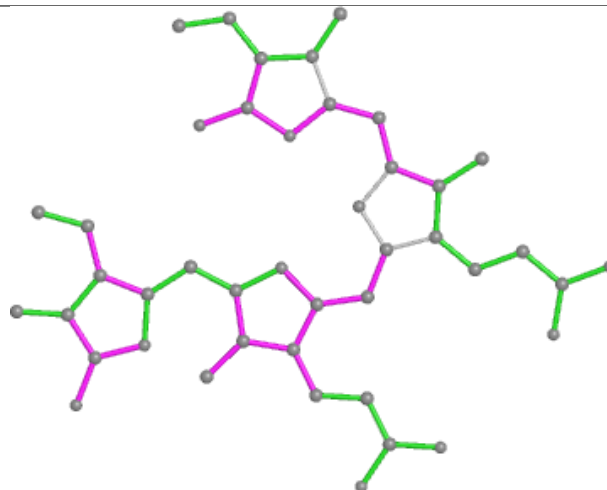


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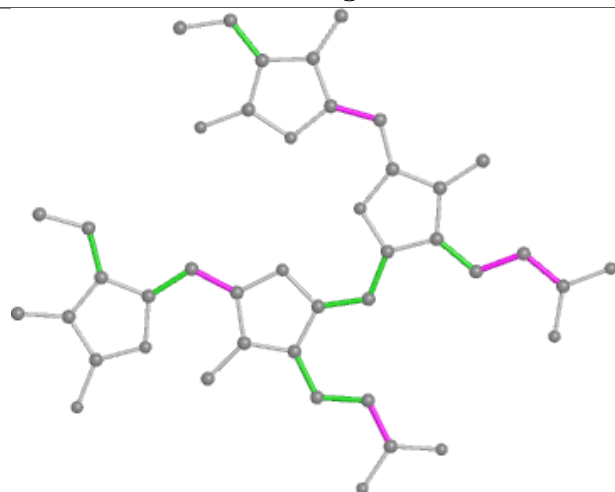
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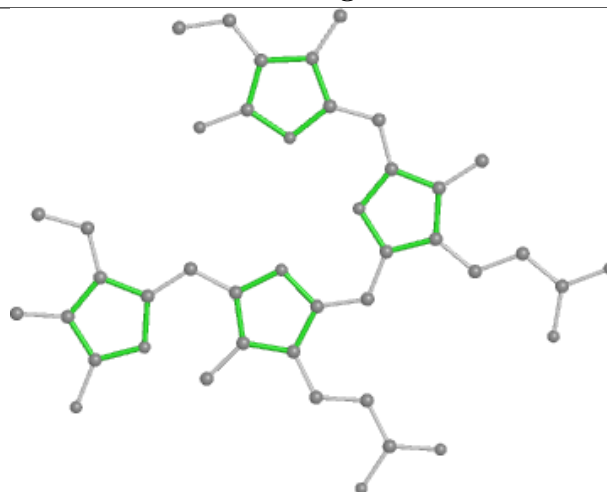
Bond lengths



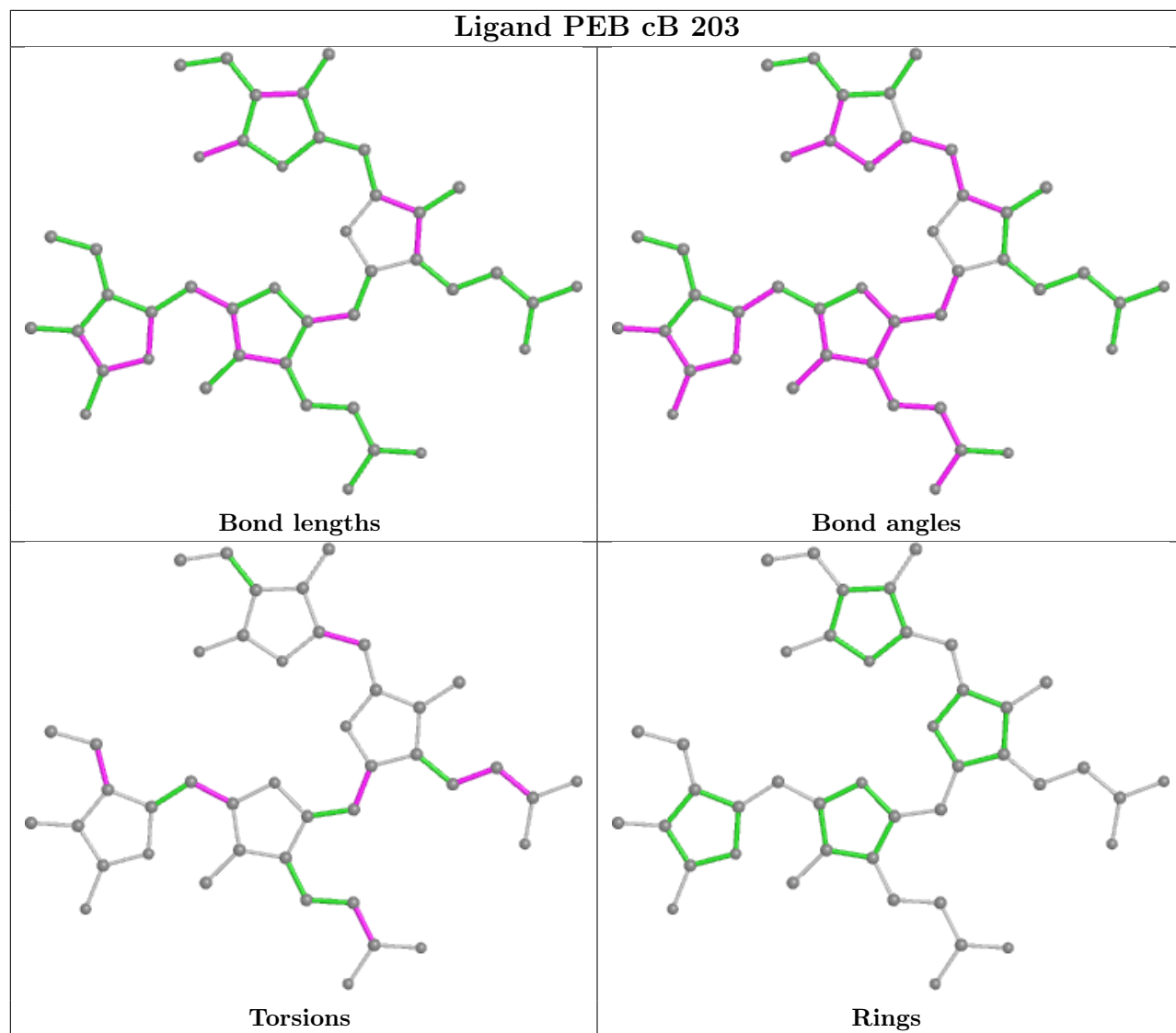
Bond angles



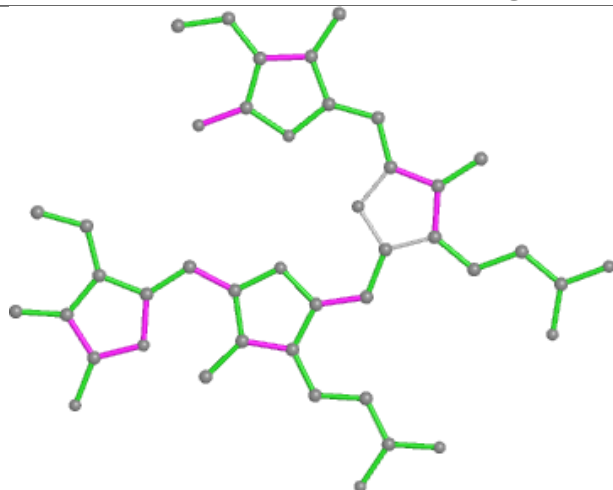
Torsions



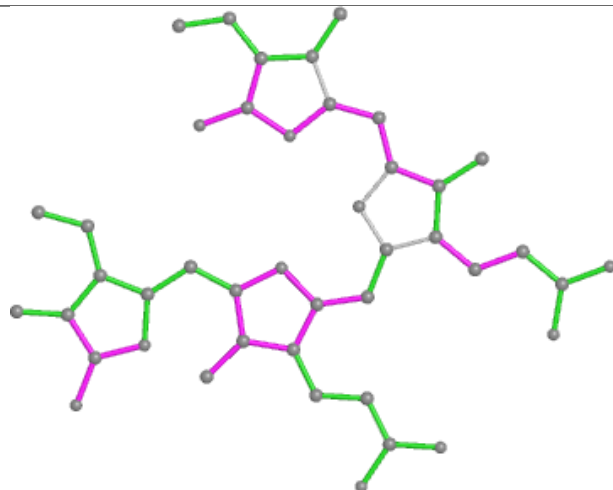
Rings



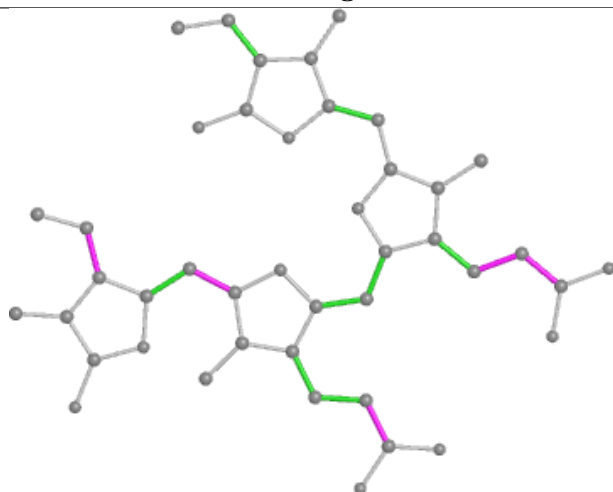
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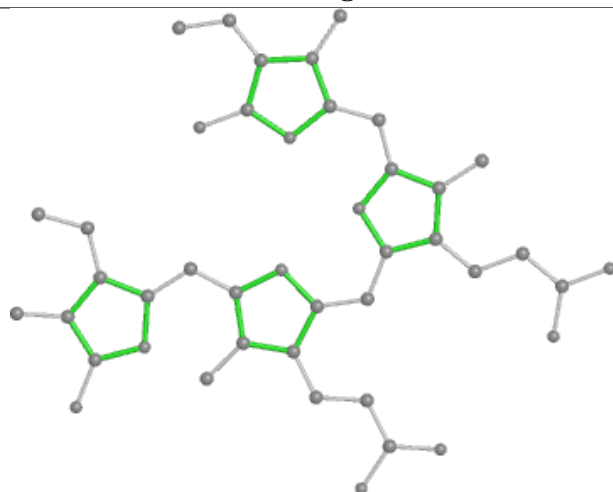
Bond lengths



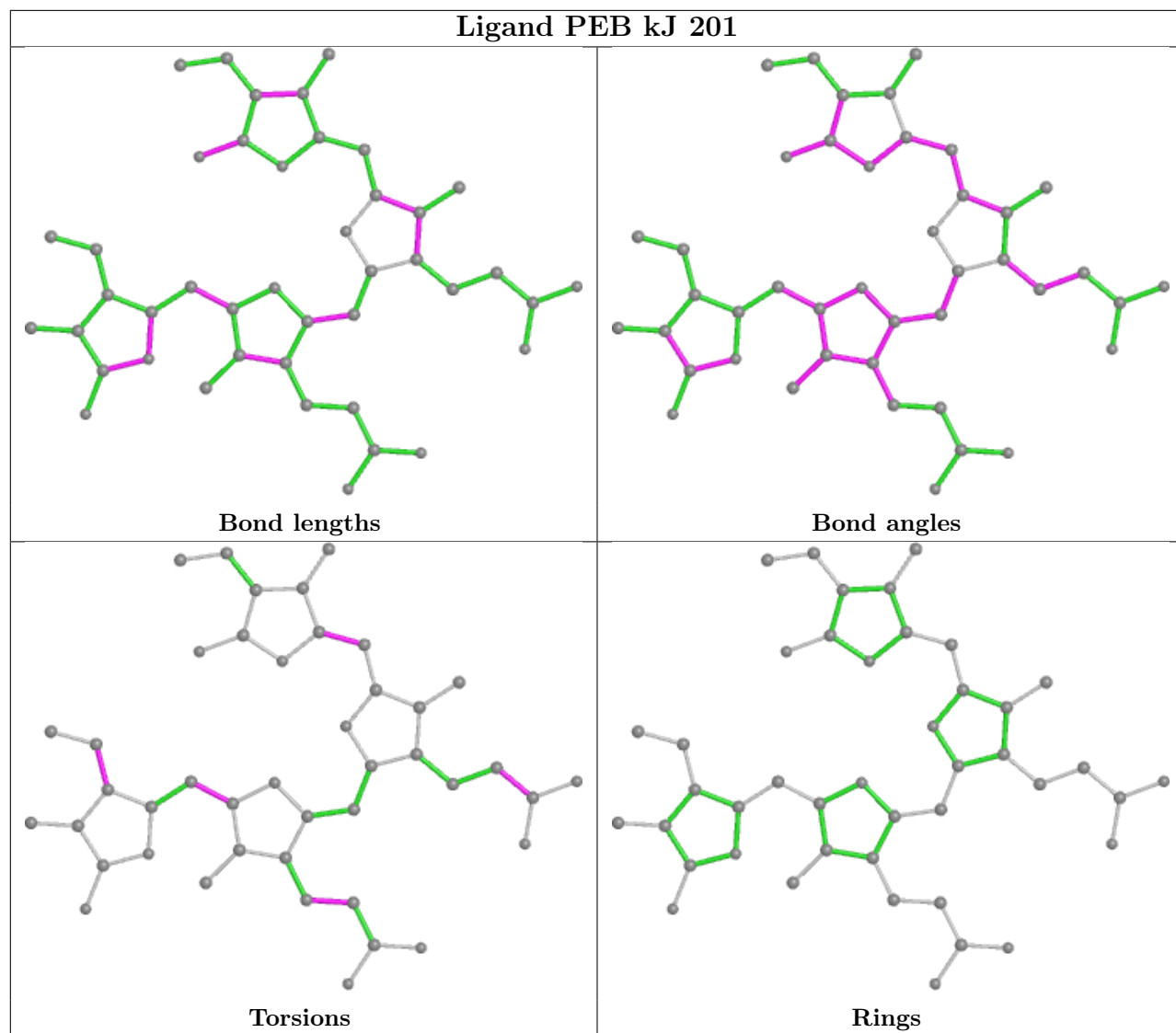
Bond angles

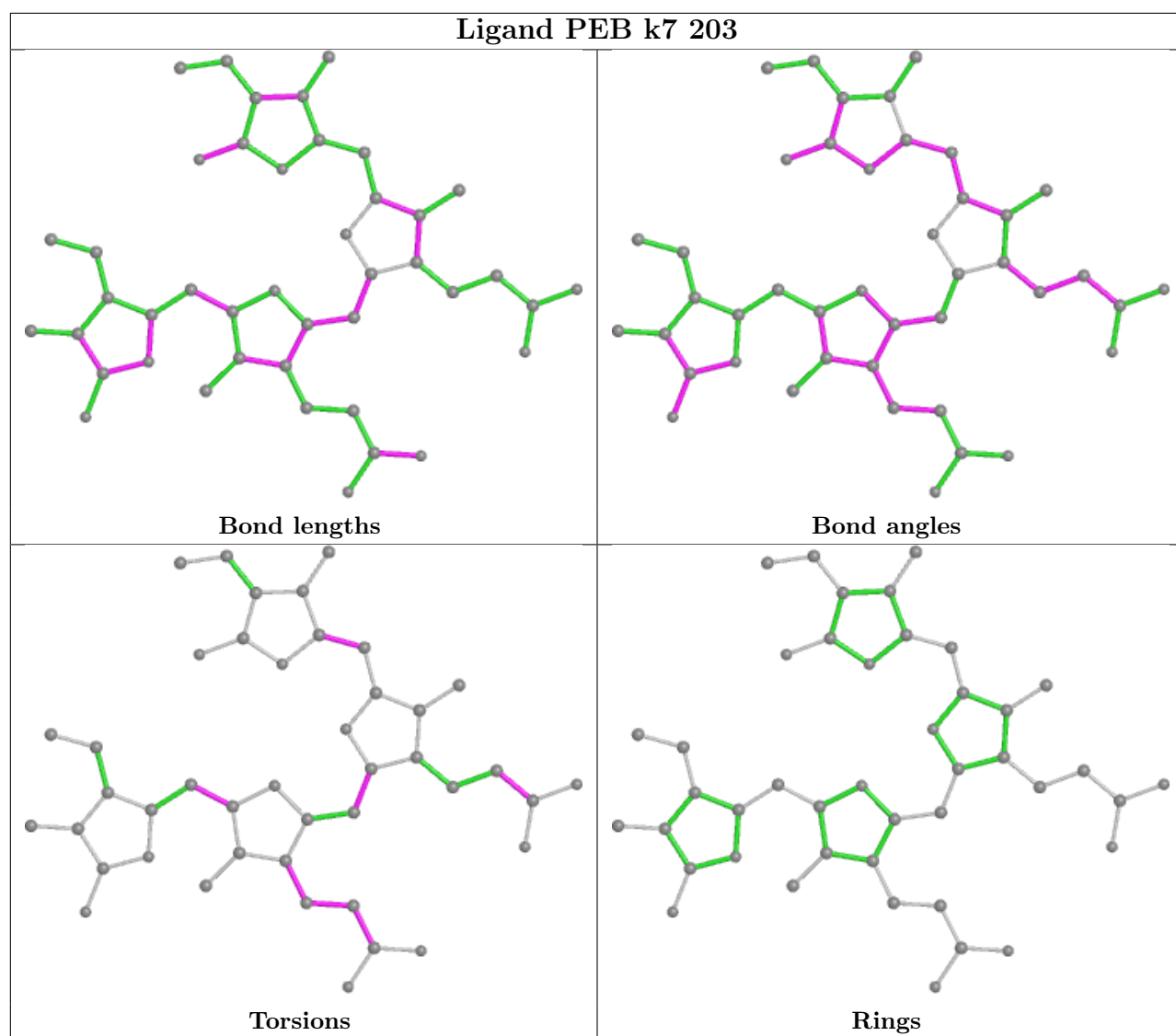


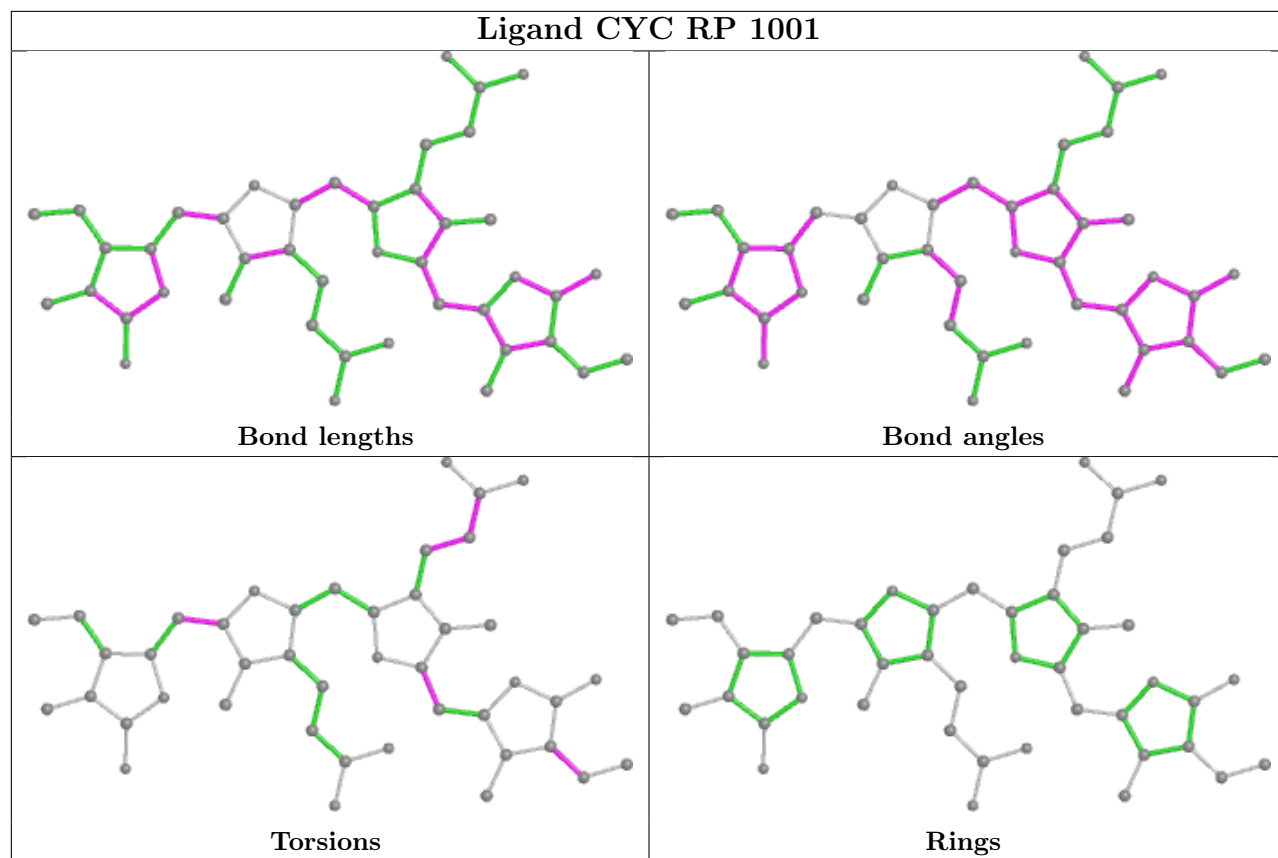
Torsions



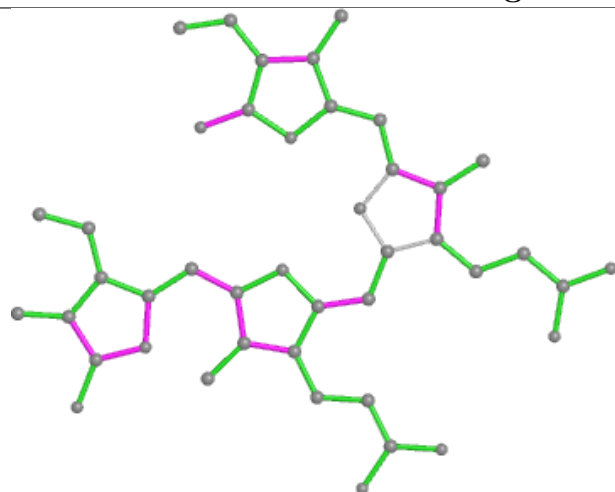
Rings



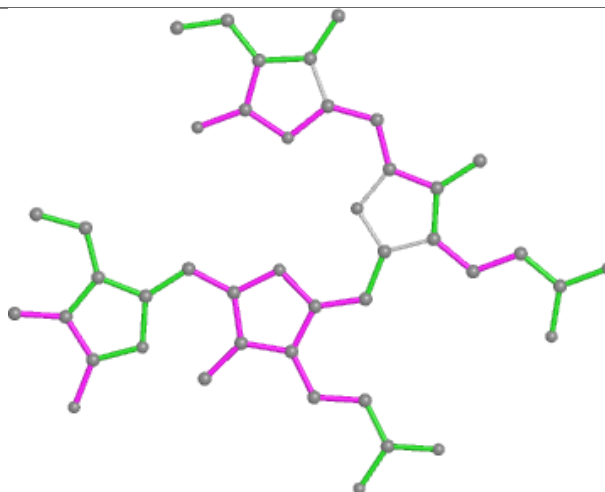




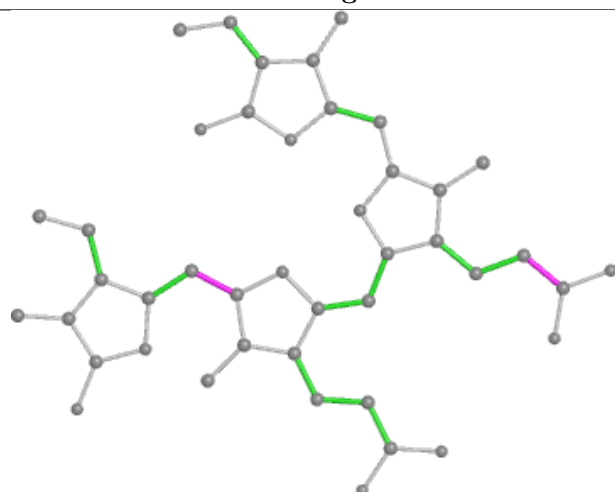
Ligand PEB EO 201



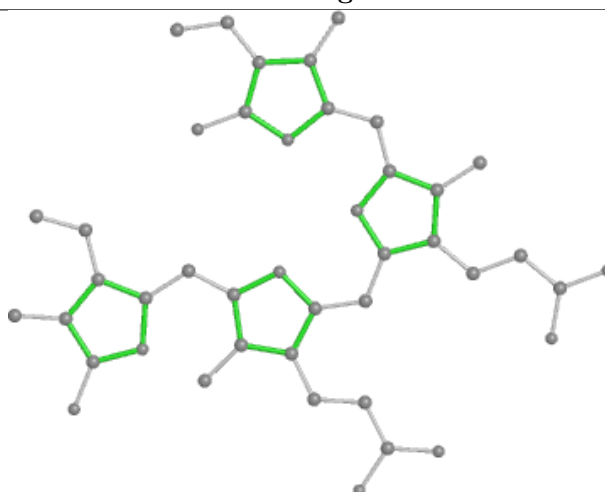
Bond lengths



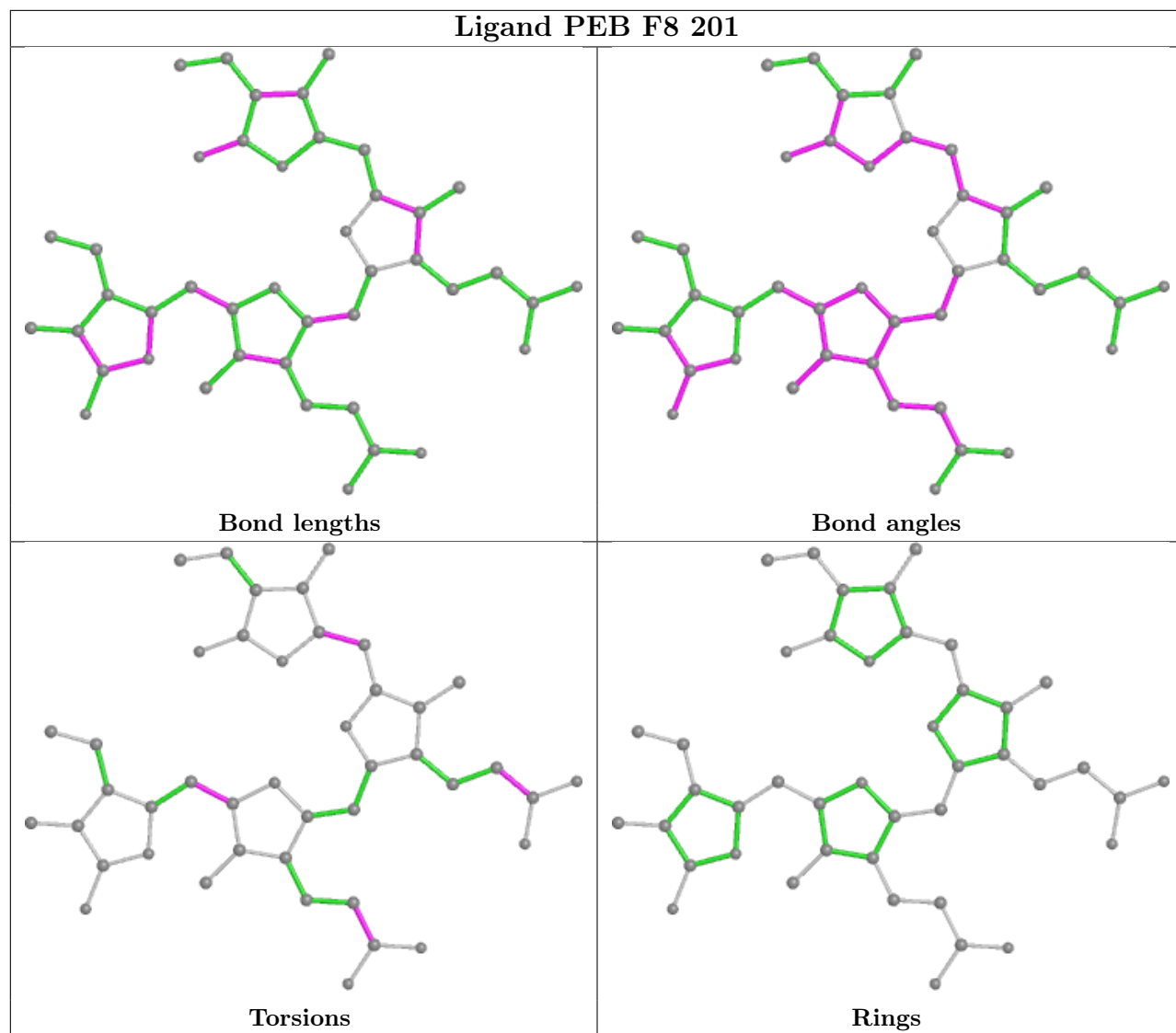
Bond angles



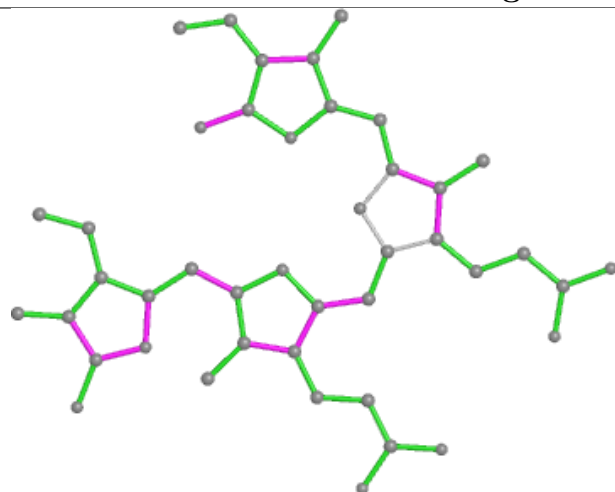
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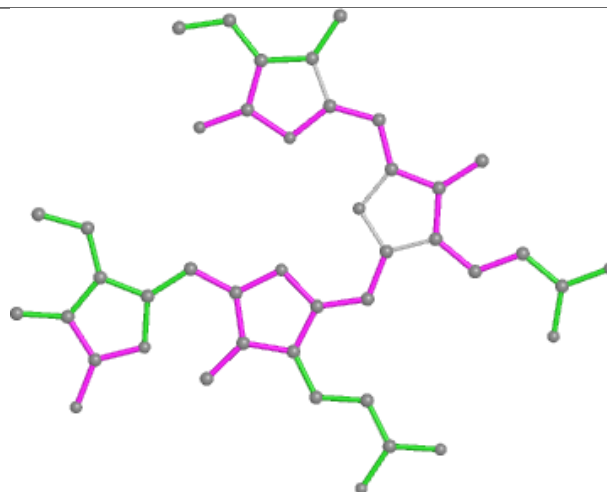
Rings



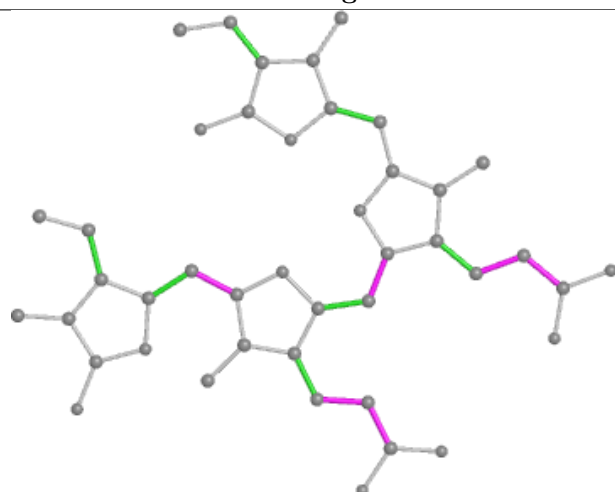
Ligand PEB dM 202



Bond lengths



Bond angles

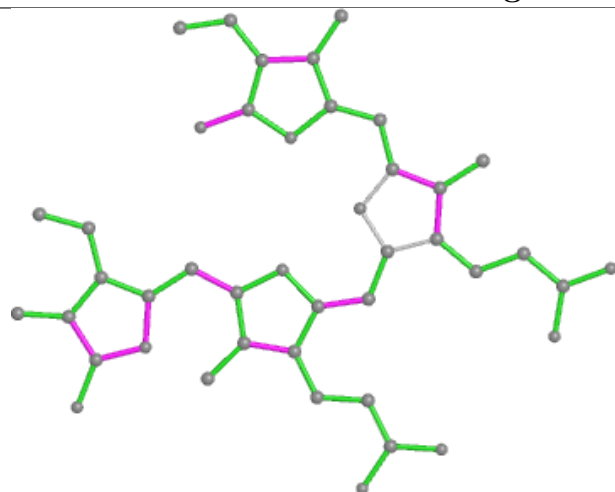


Torsions

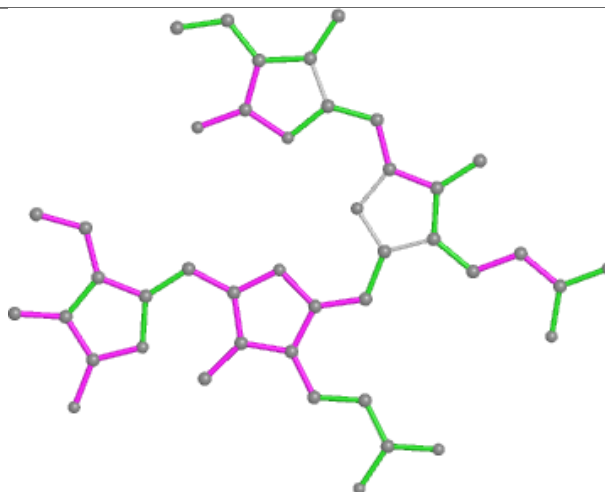


Rings

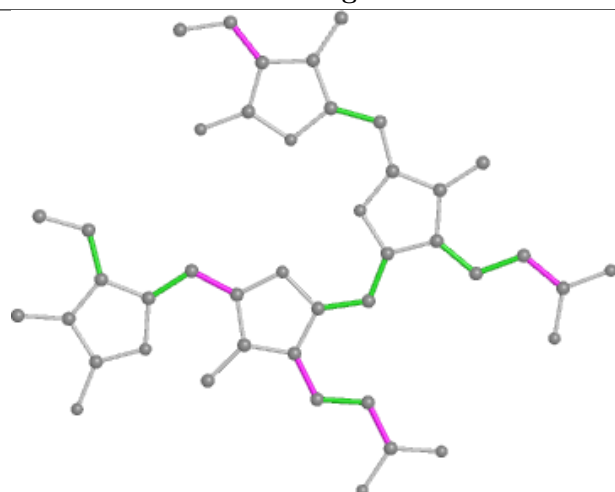
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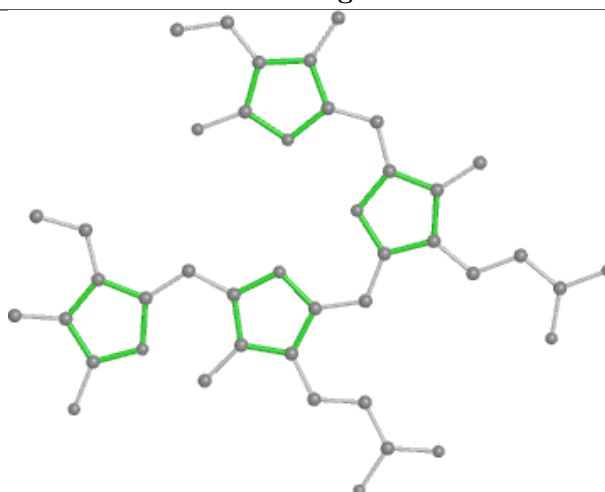
Bond lengths



Bond angles

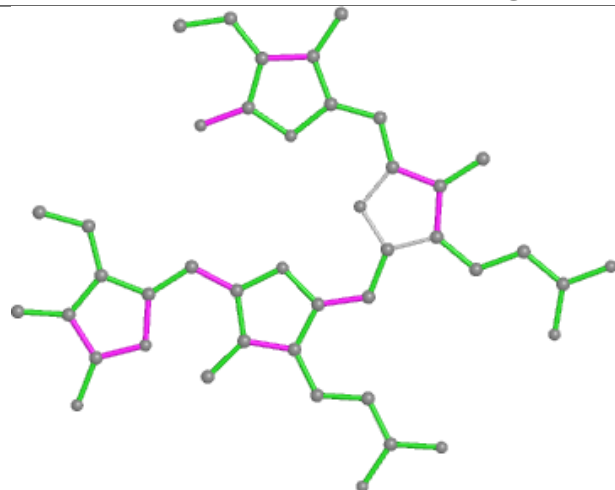


Torsions

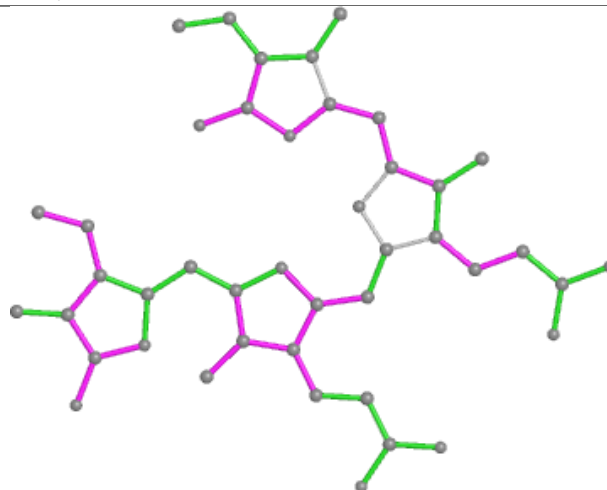


Rings

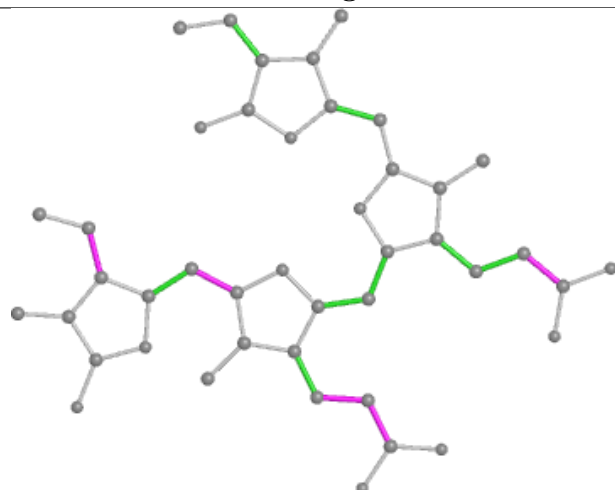
Ligand PEB QF 202



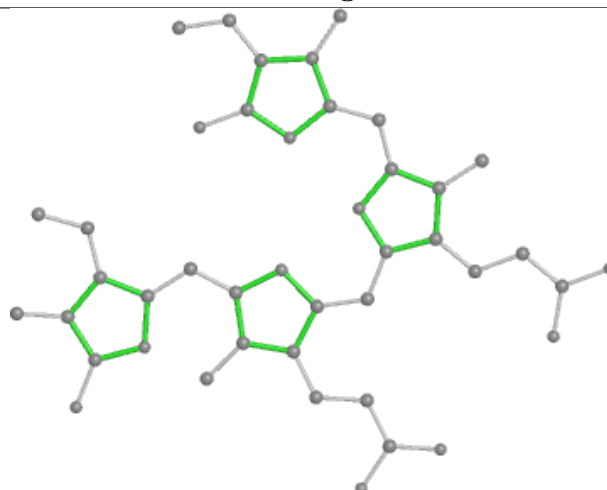
Bond lengths



Bond angles

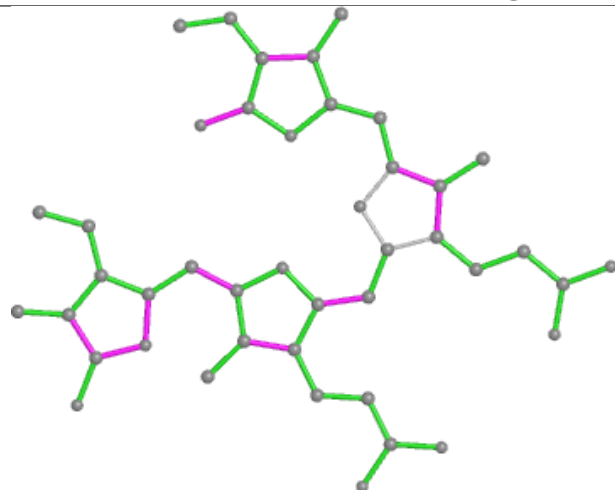


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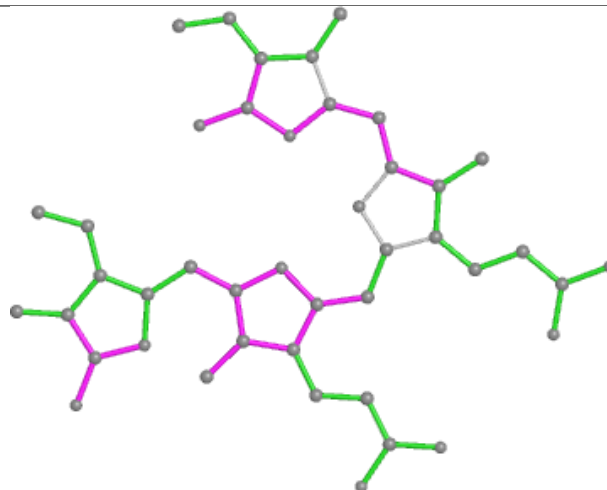


Rings

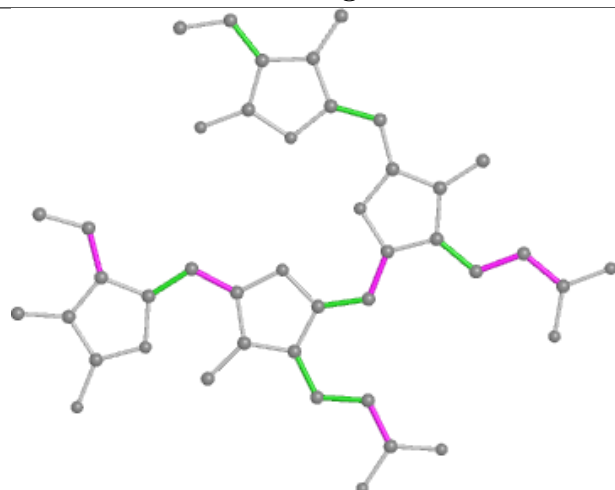
Ligand PEB UL 202



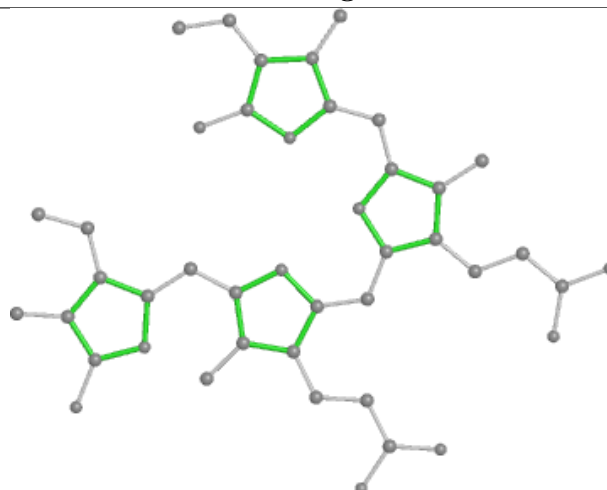
Bond lengths



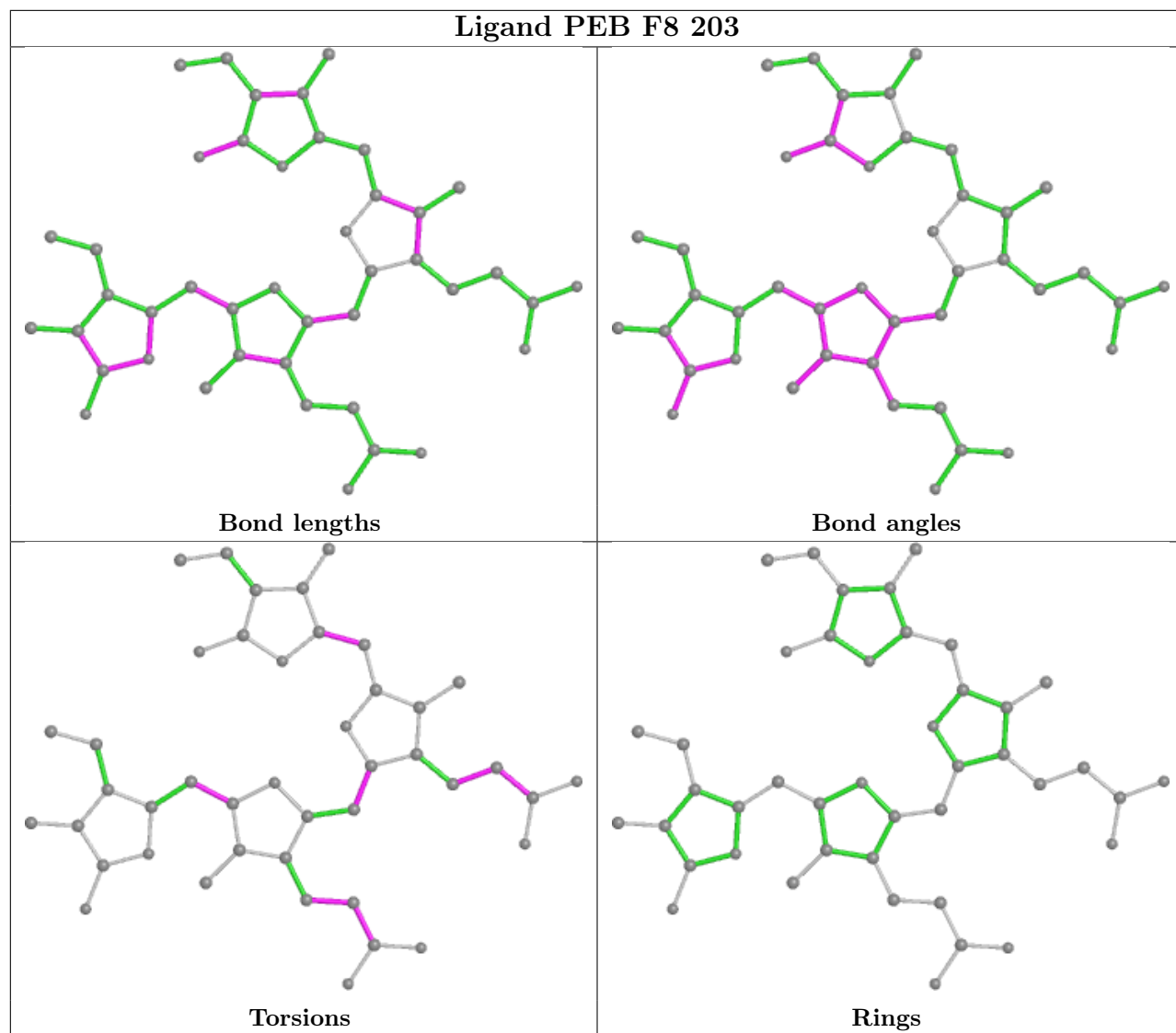
Bond angles



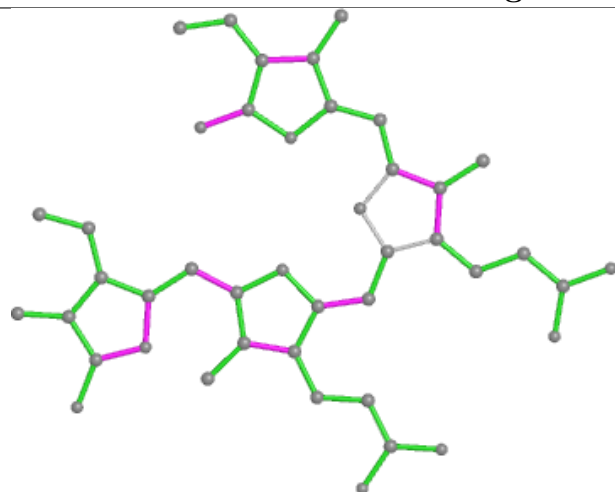
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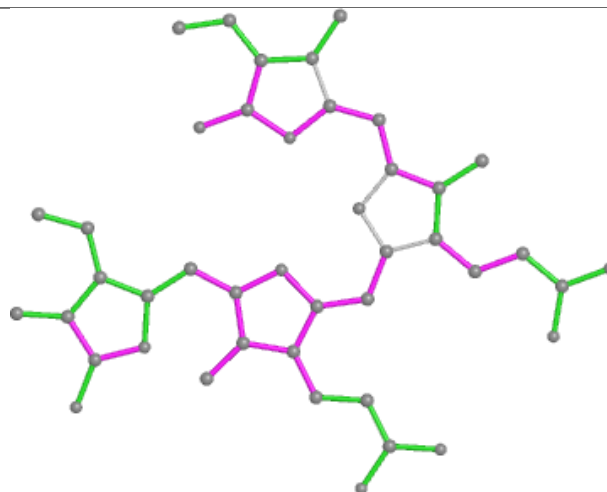
Rings



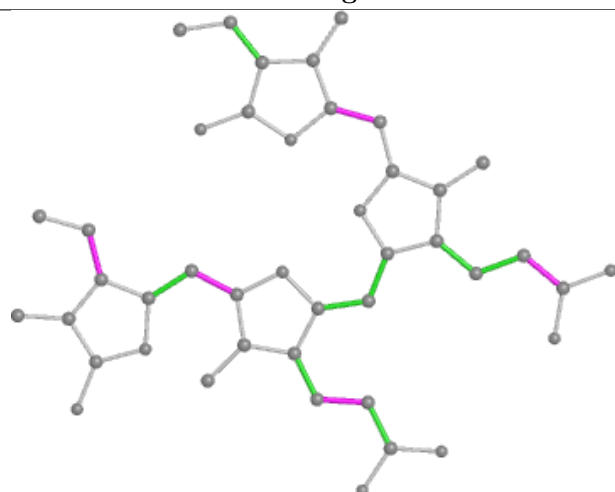
Ligand PEB UL 201



Bond lengths



Bond angles

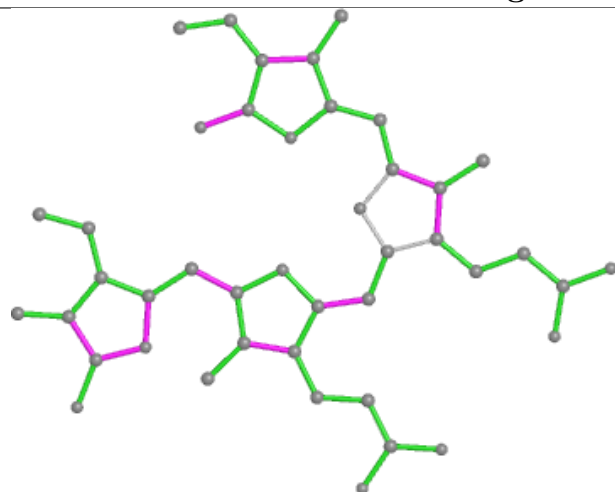


Torsions

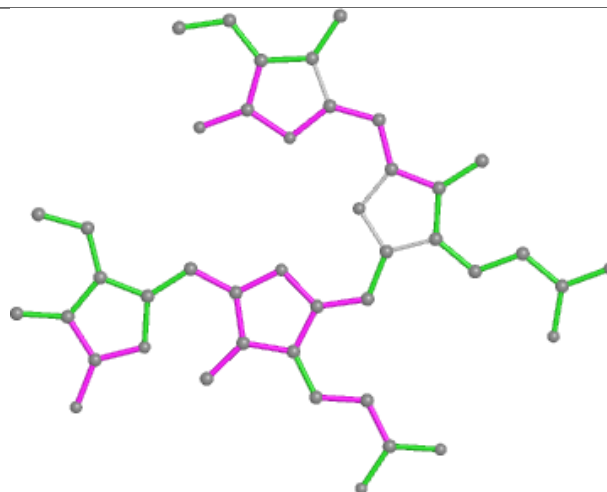


Rings

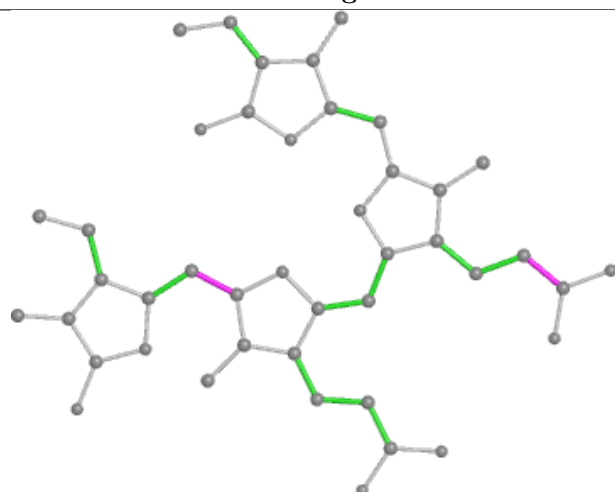
Ligand PEB R7 201



Bond lengths



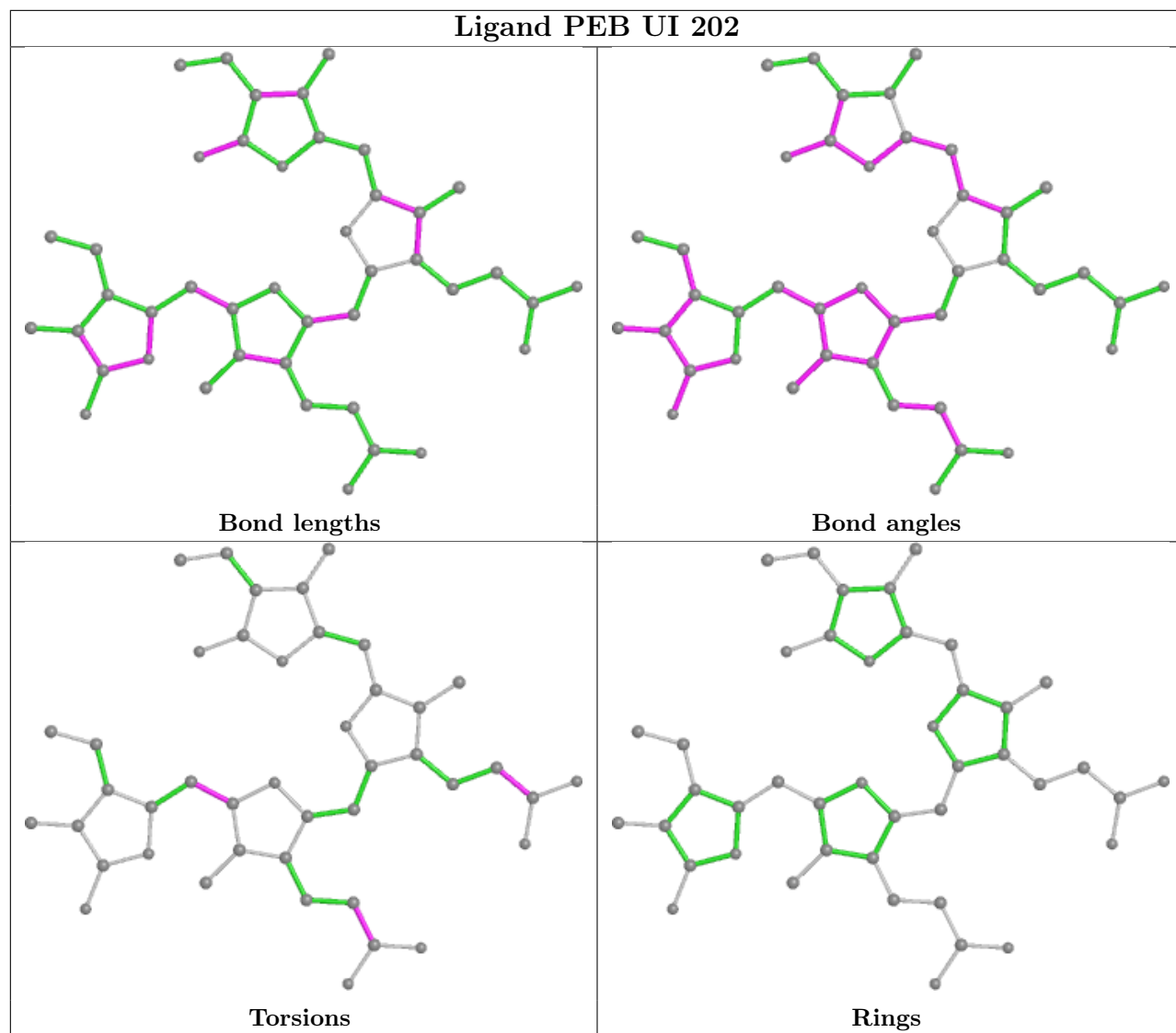
Bond angles



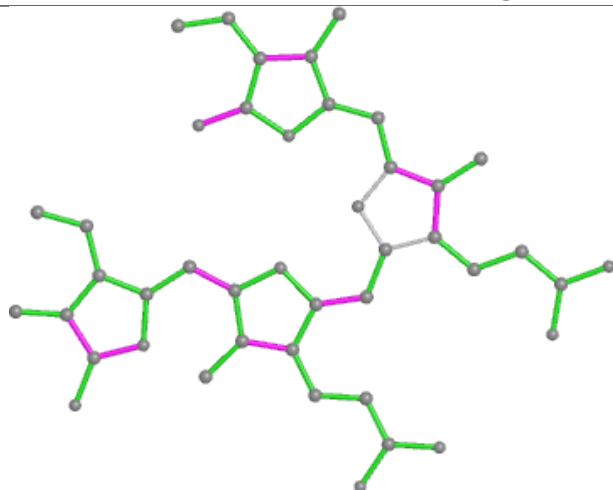
Torsions



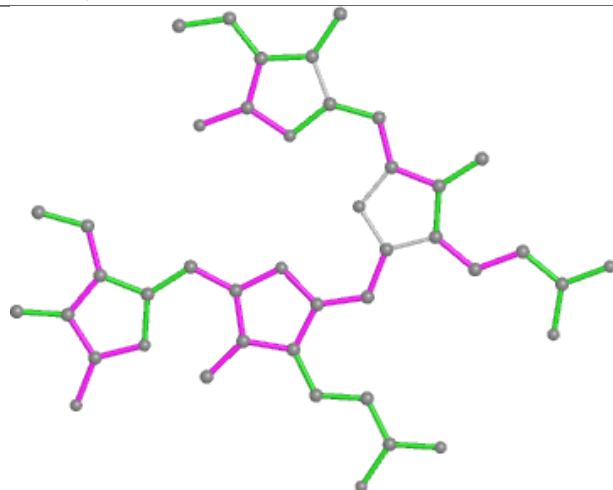
Rings



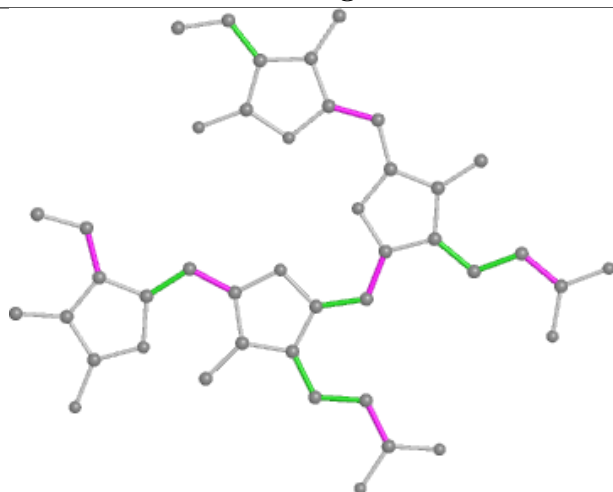
Ligand PEB MQ 407



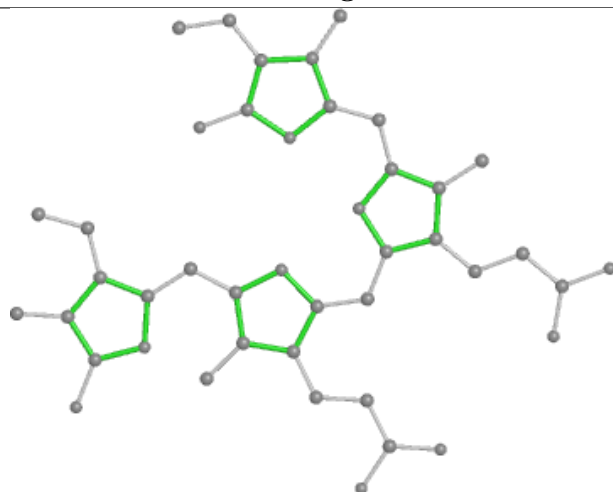
Bond lengths



Bond angles

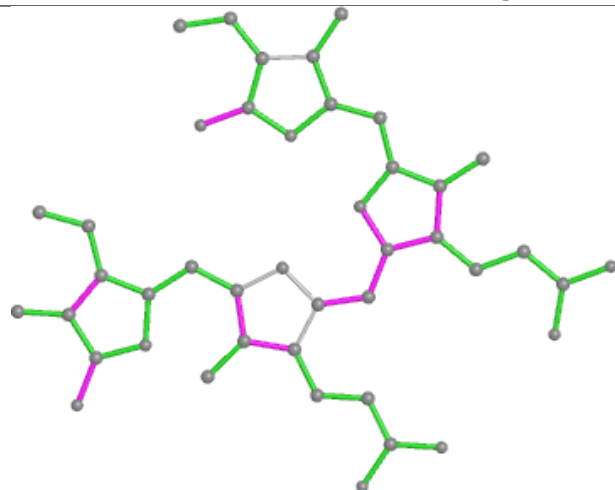


Torsions

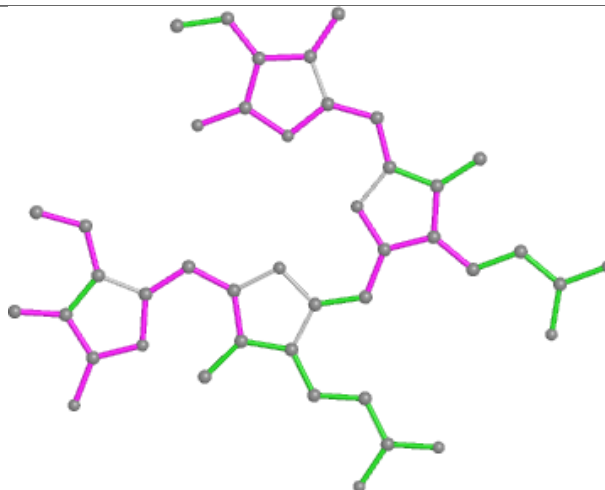


Rings

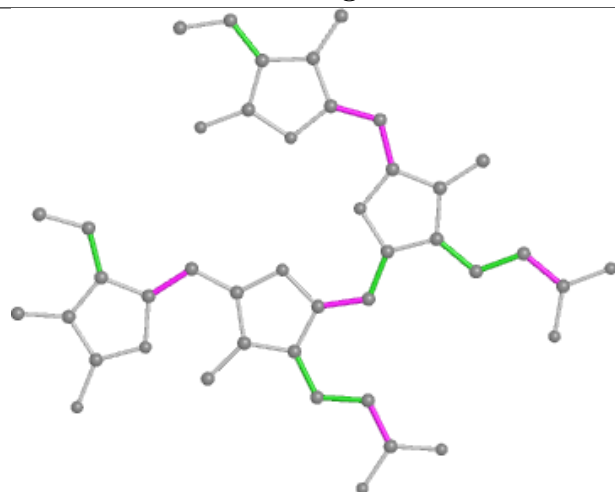
Ligand PUB MA 403



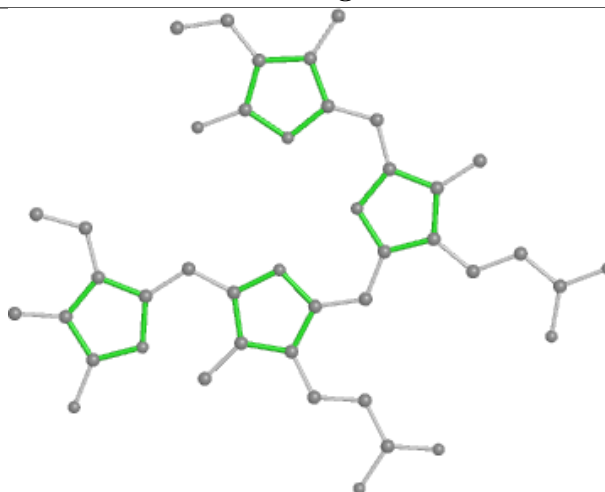
Bond lengths



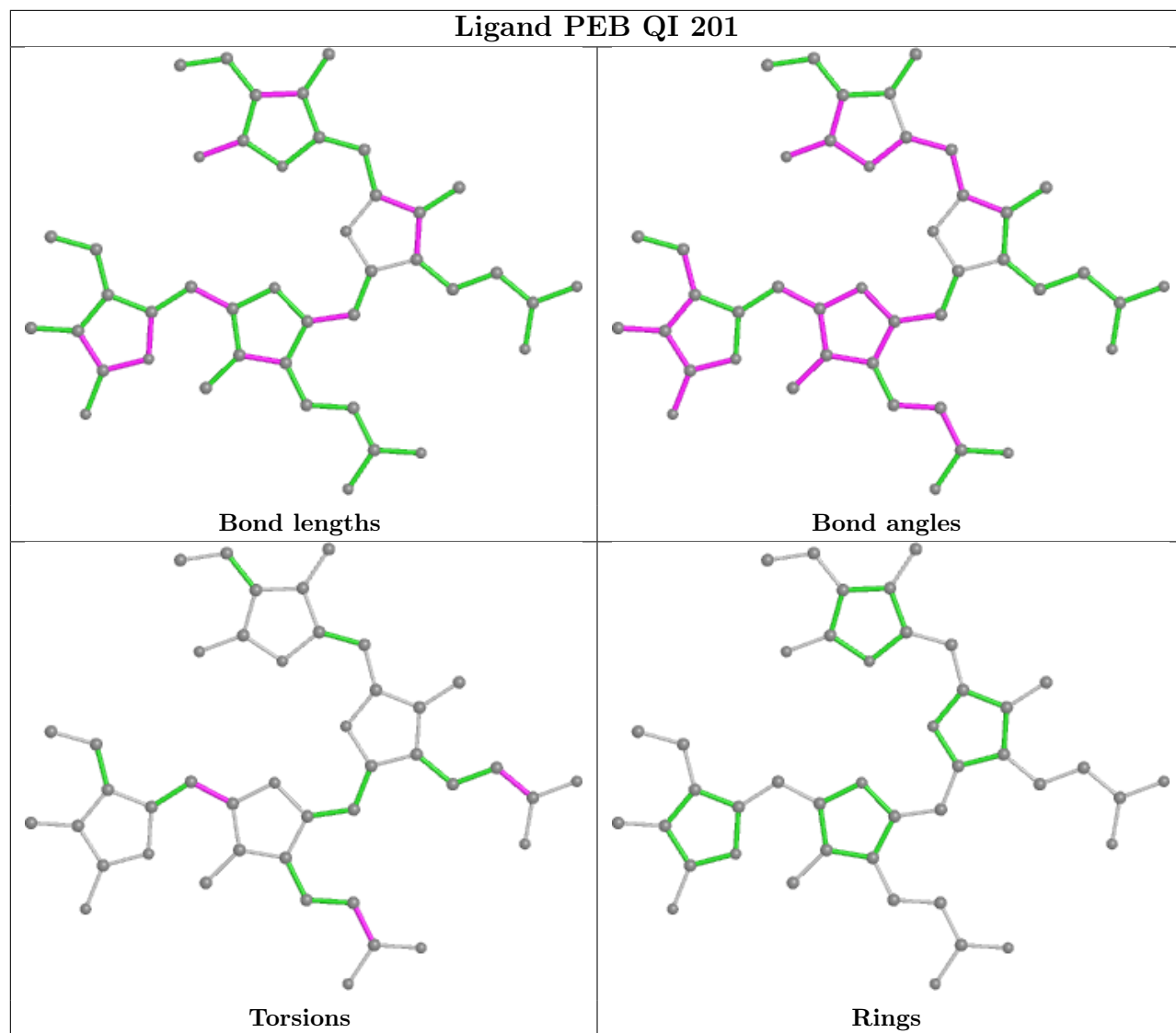
Bond angles



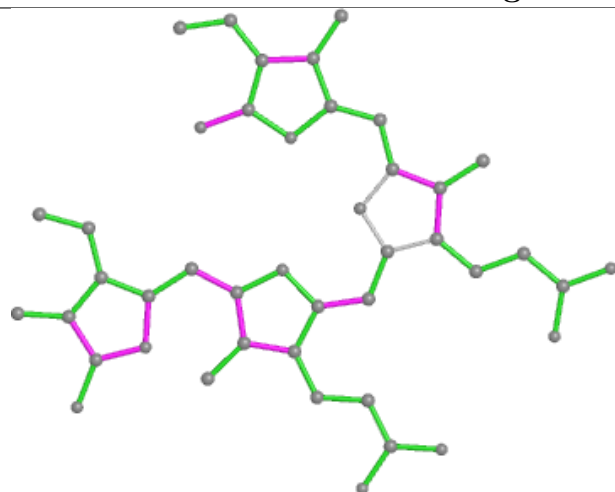
Torsions



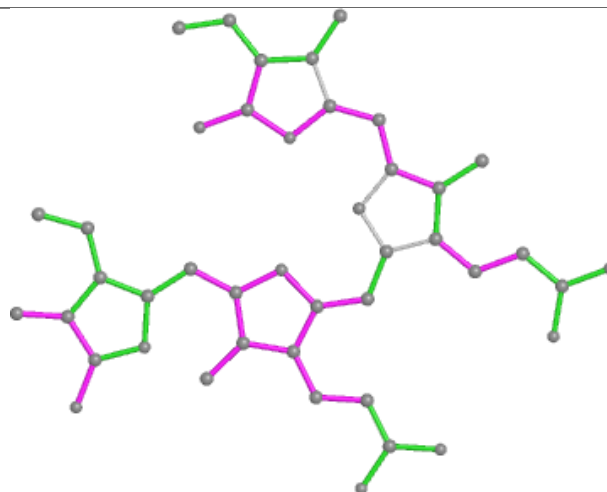
Rings



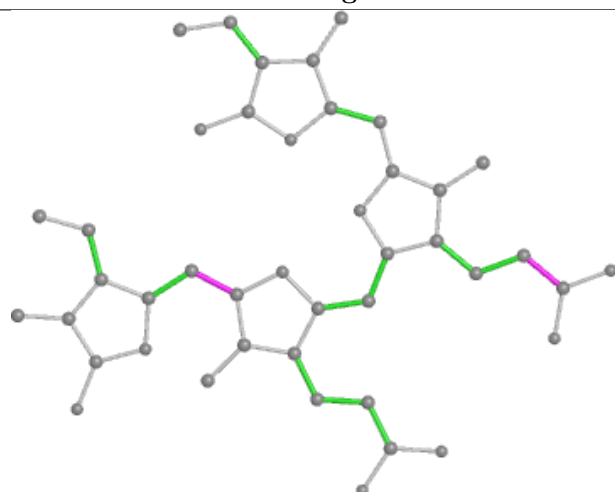
Ligand PEB CO 201



Bond lengths



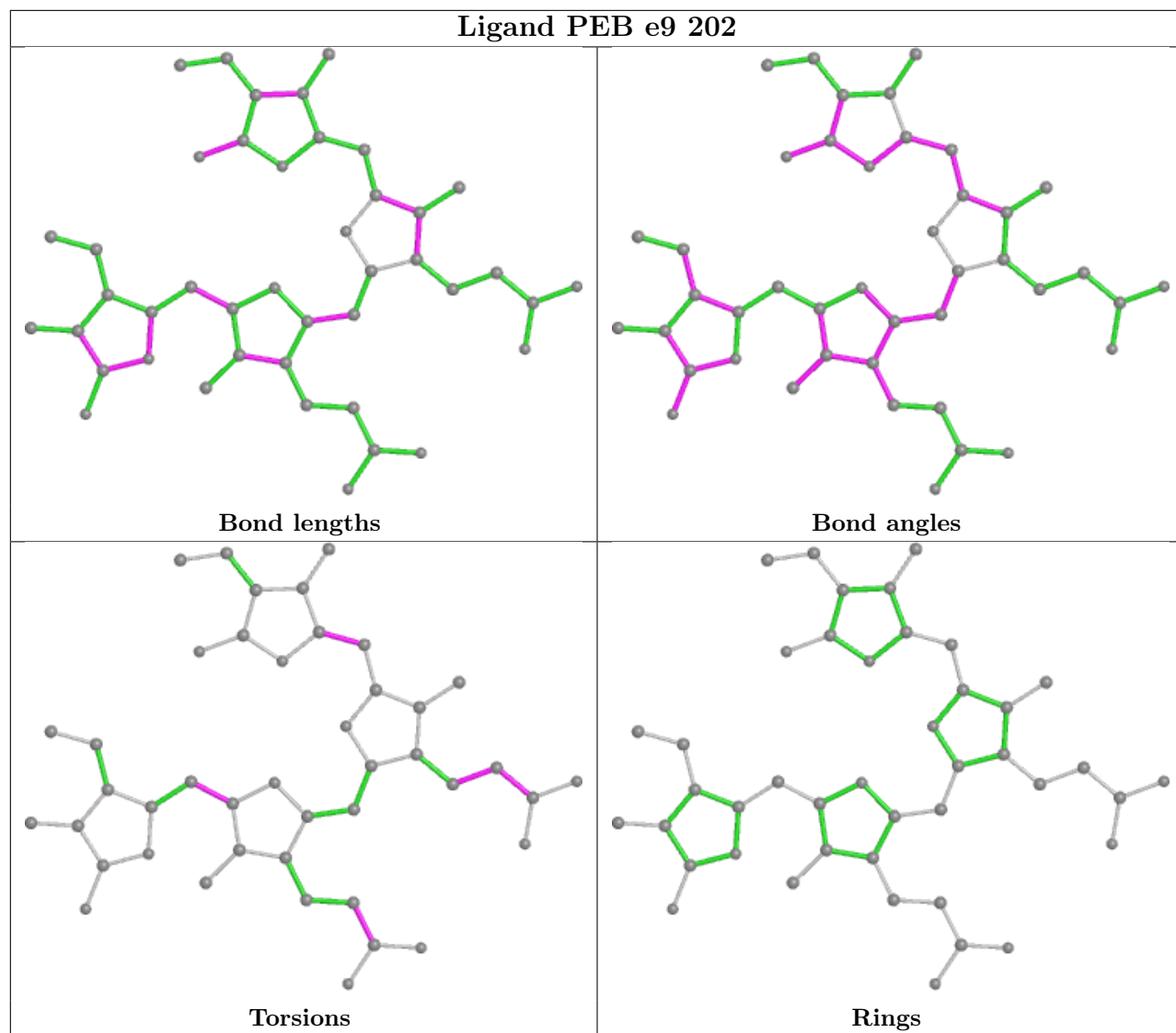
Bond angles



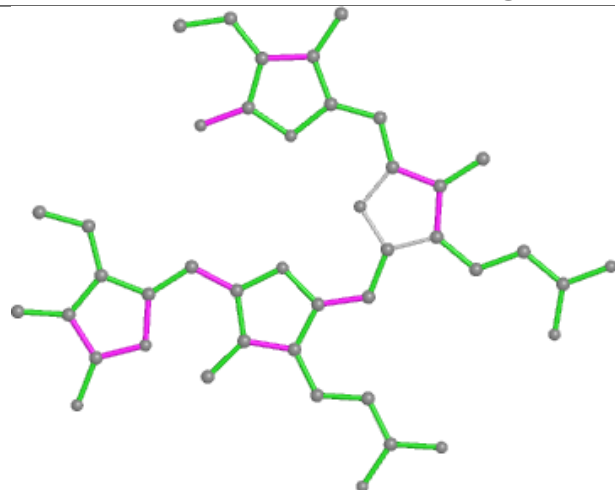
Torsions



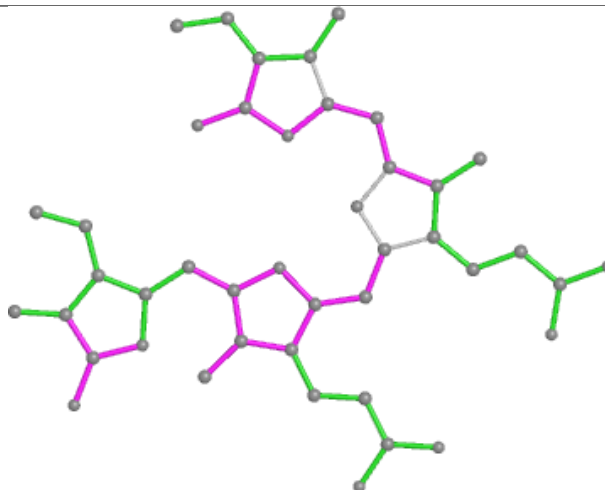
Rings



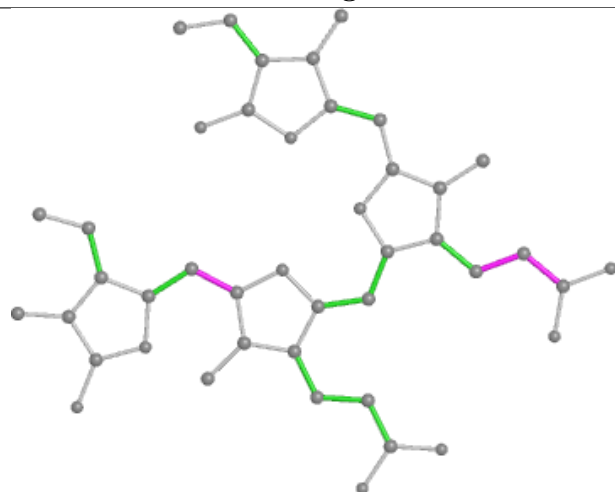
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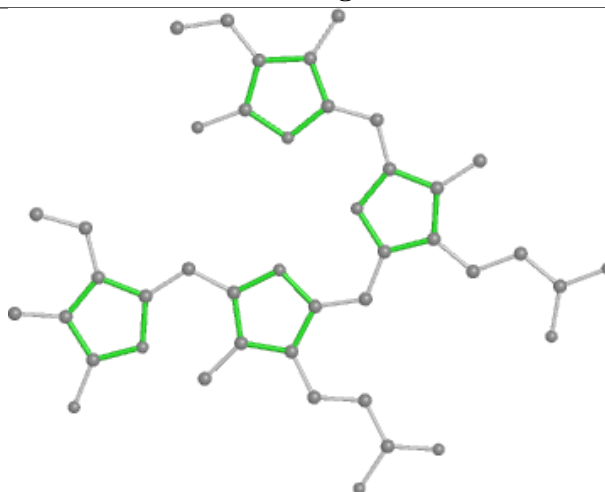
Bond lengths



Bond angles

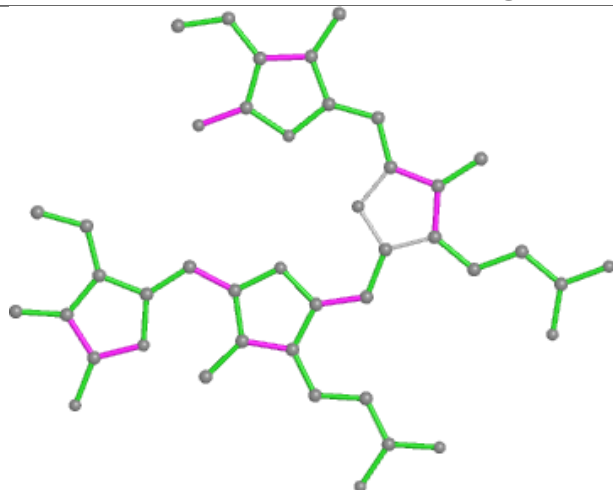


Torsions

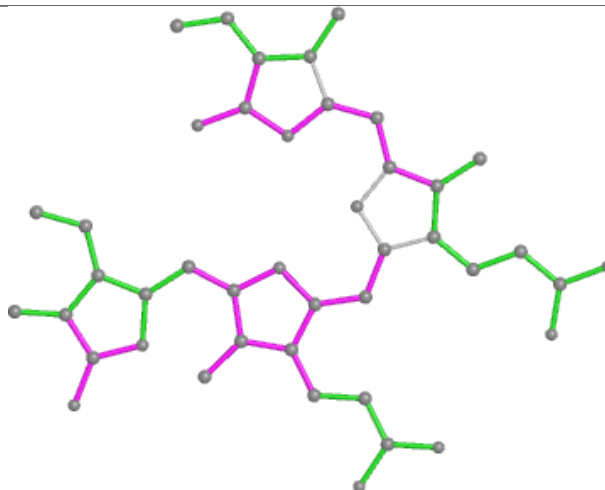


Rings

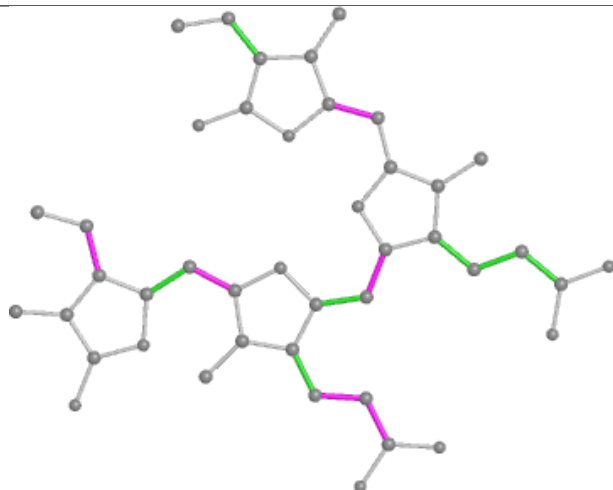
Ligand PEB DN 203



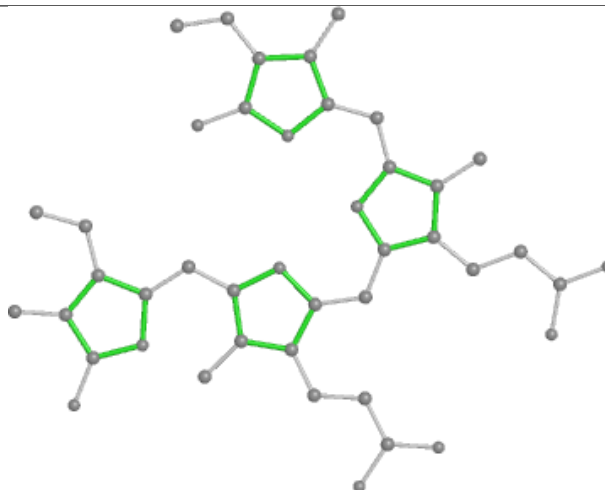
Bond lengths



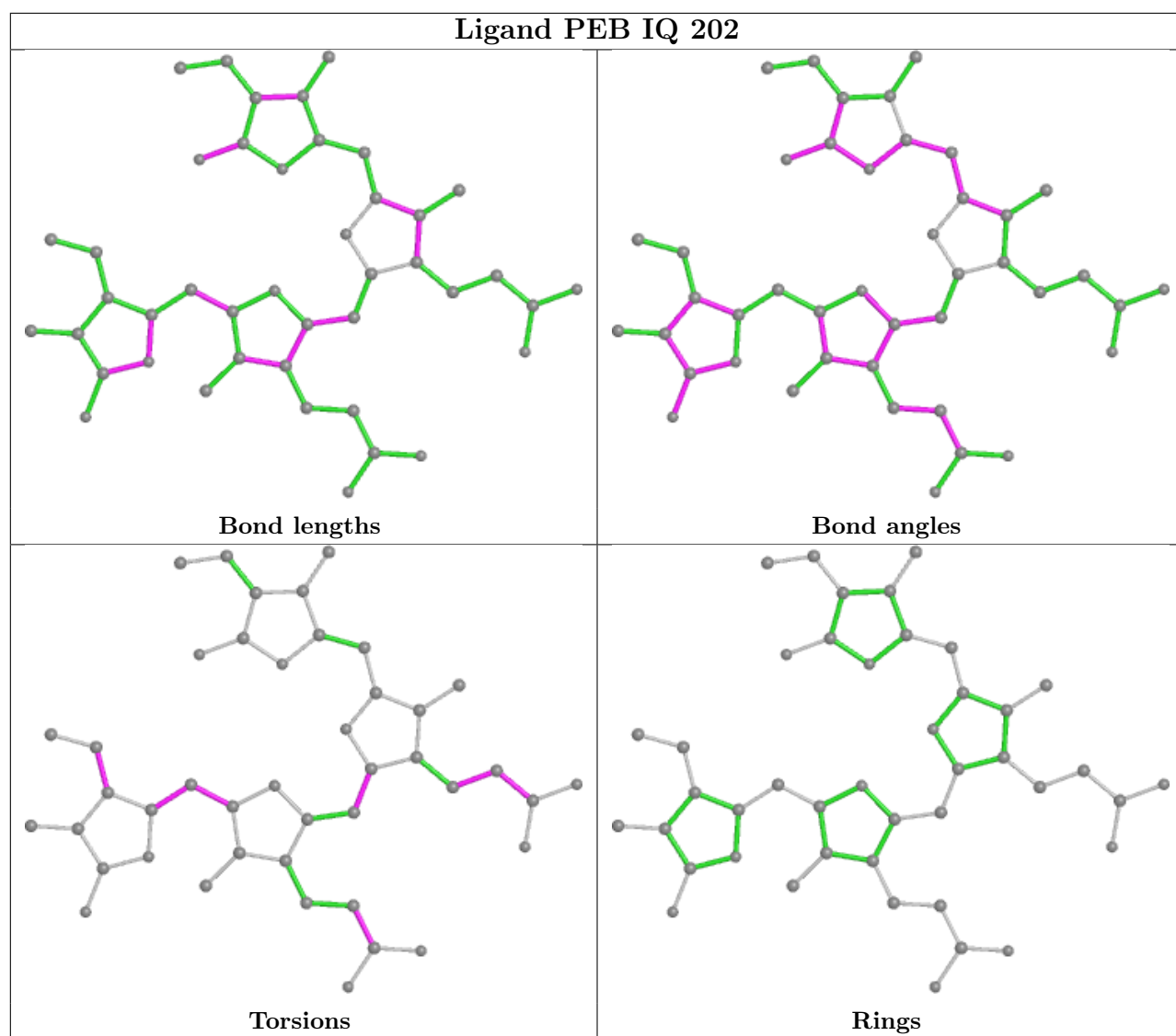
Bond angles



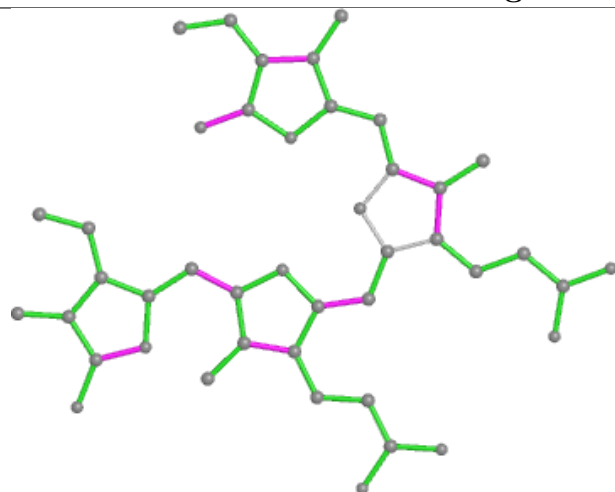
Torsions



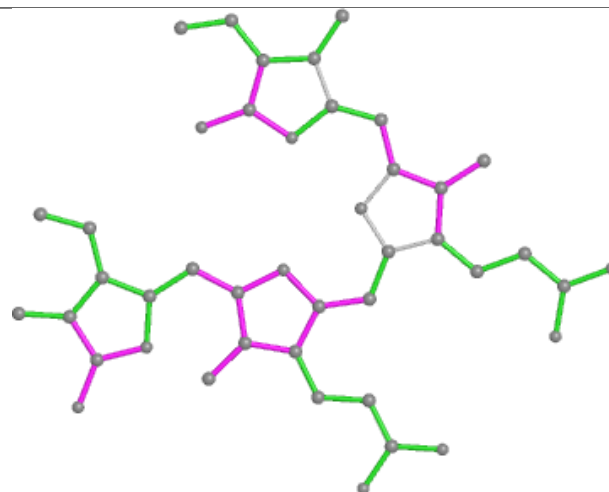
Rings



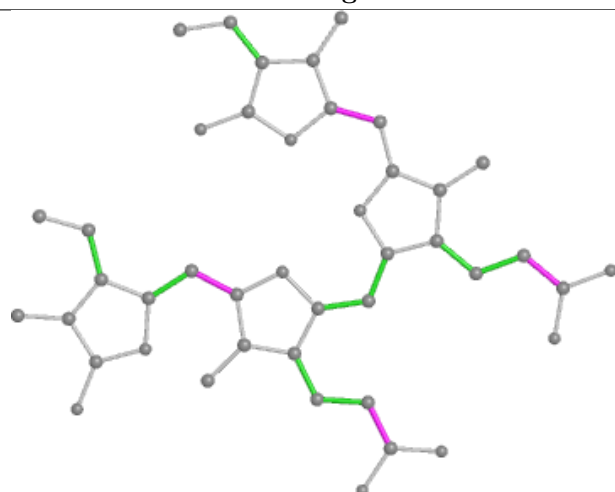
Ligand PEB AF 305



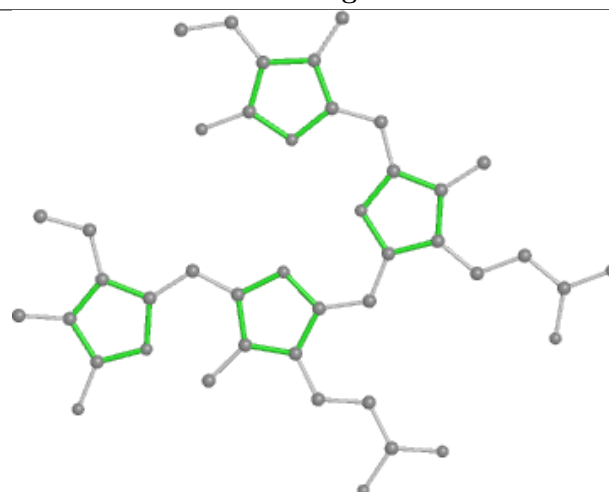
Bond lengths



Bond angles

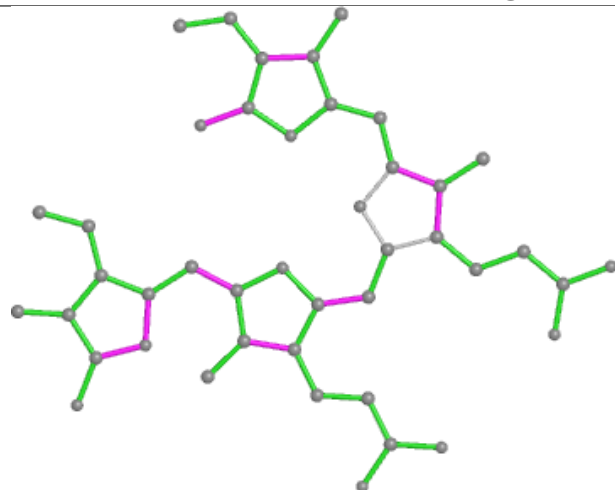


Torsions

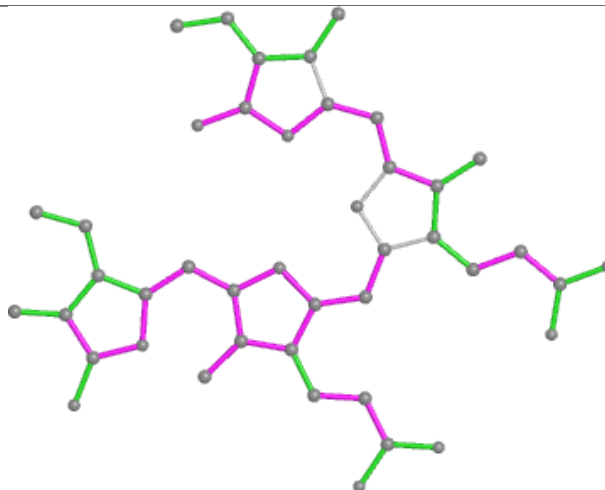


Rings

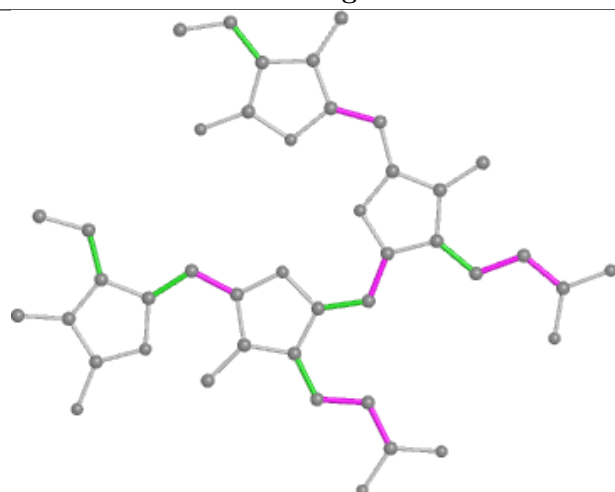
Ligand PEB DG 203



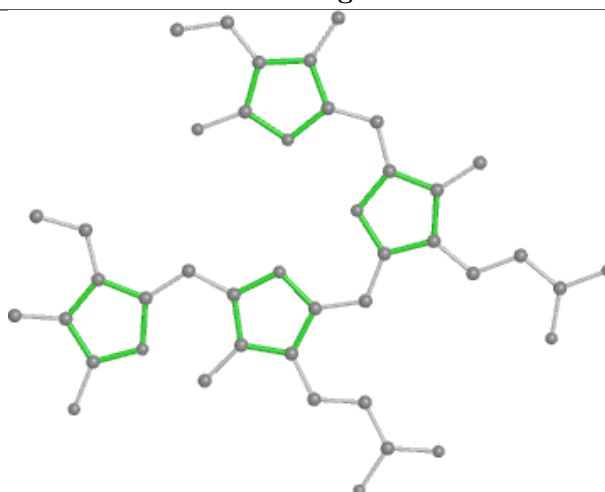
Bond lengths



Bond angles

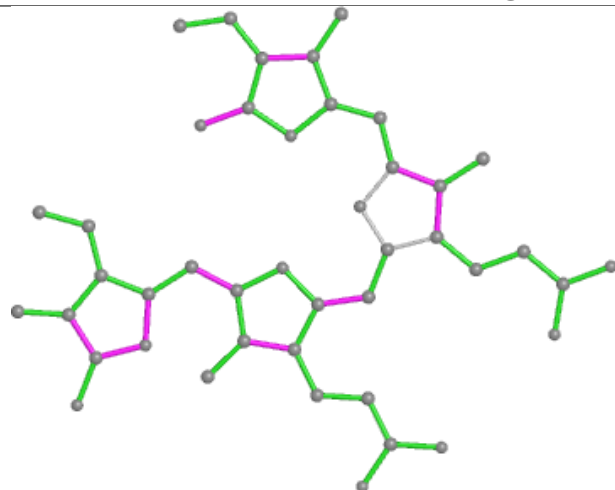


Torsions

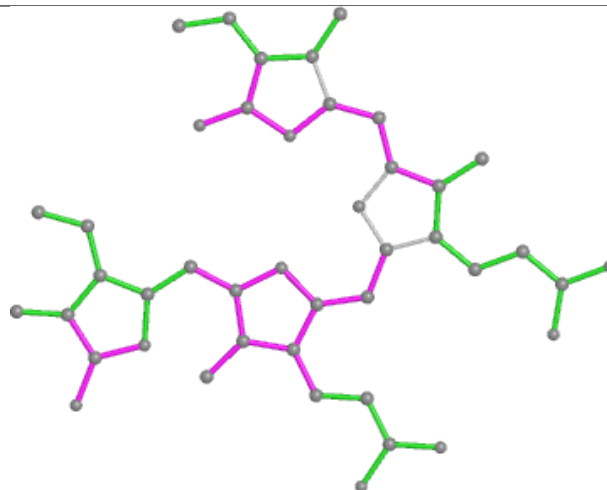


Rings

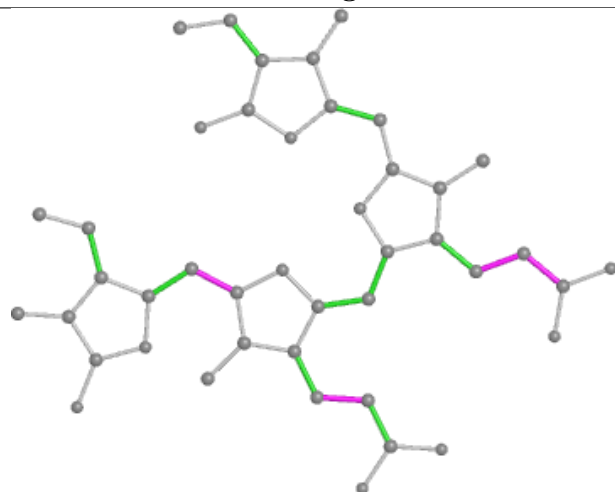
Ligand PEB UK 201



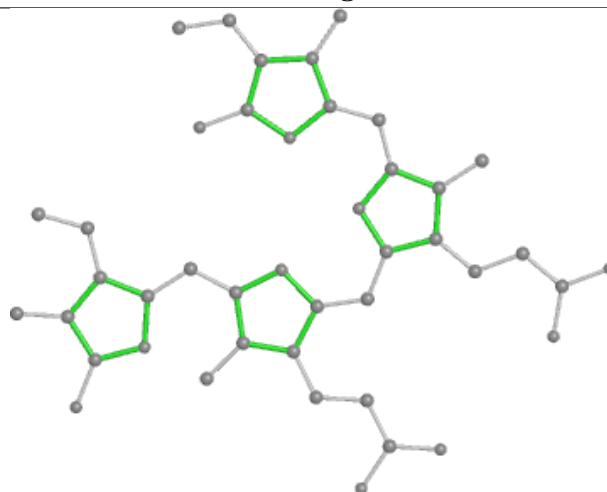
Bond lengths



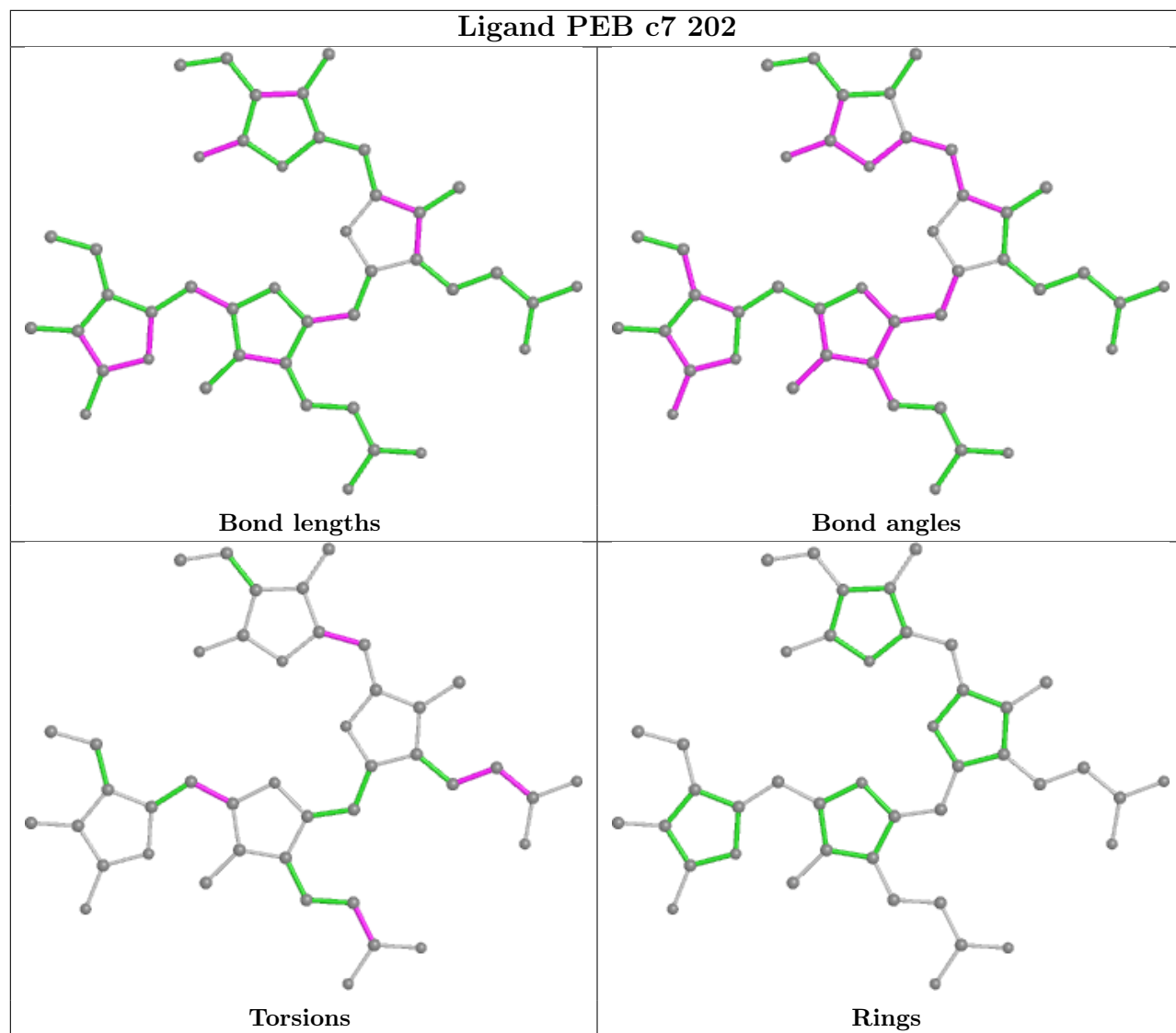
Bond angles

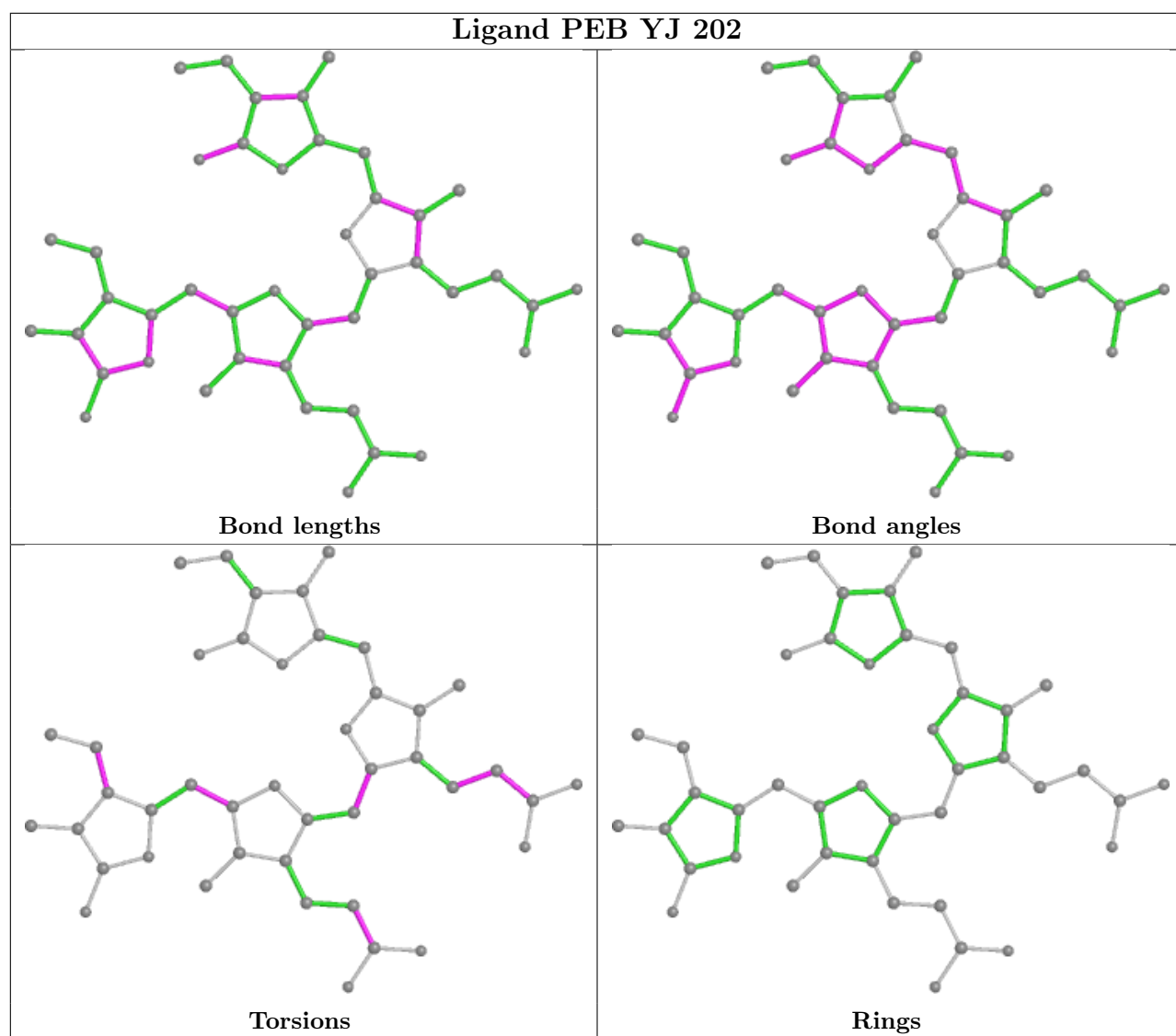


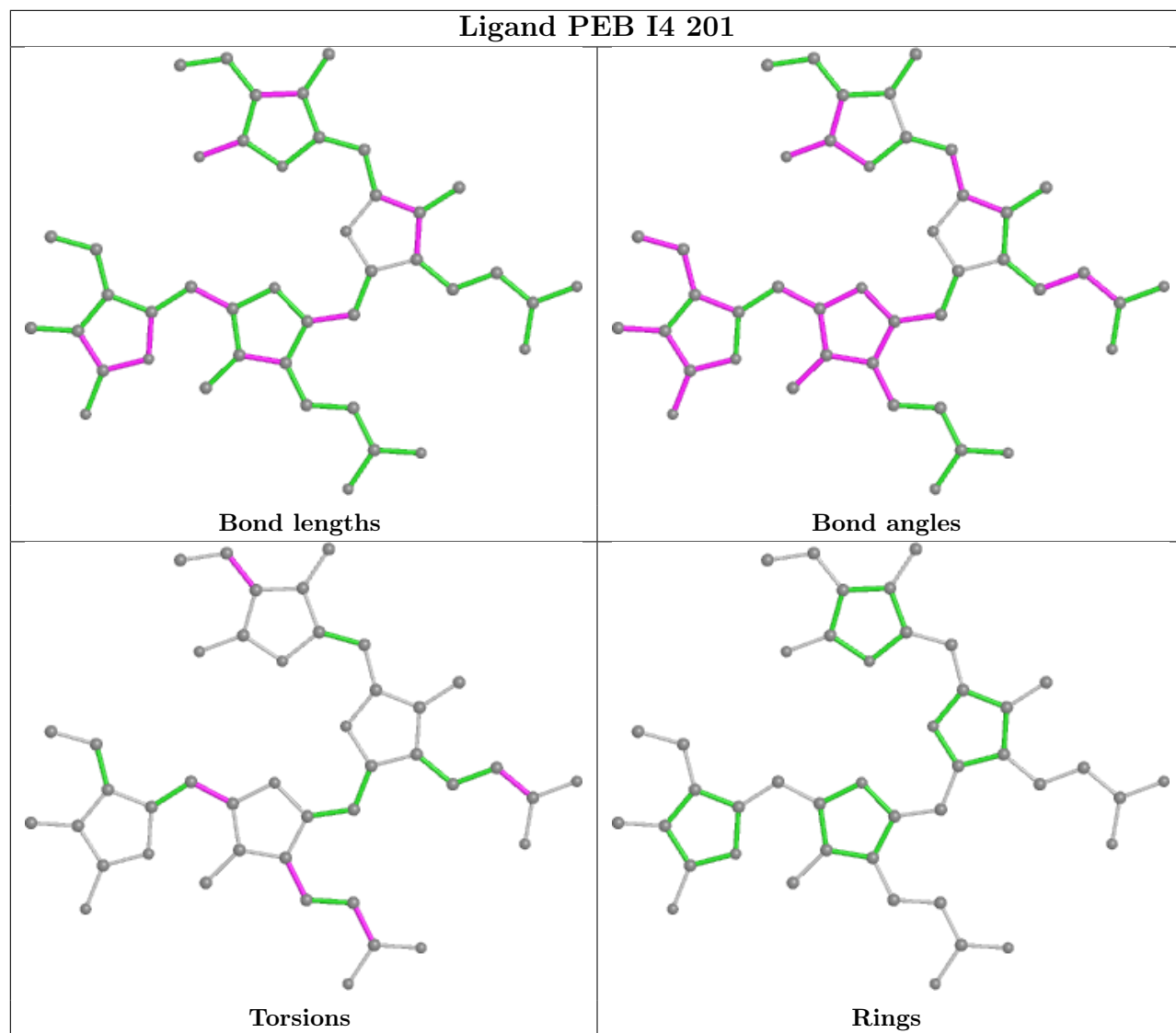
Torsions



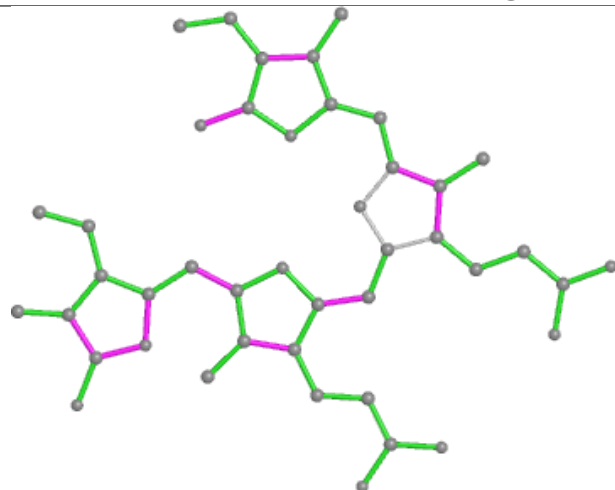
Rings



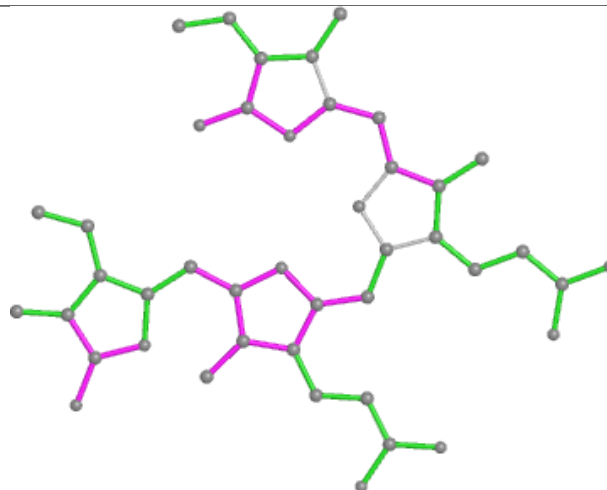




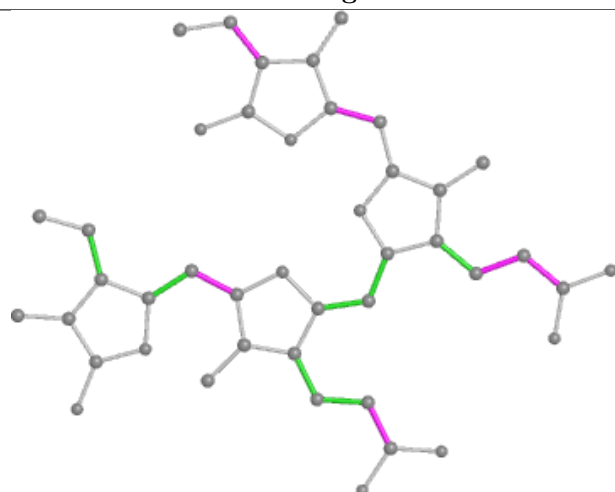
Ligand PEB NO 202



Bond lengths



Bond angles

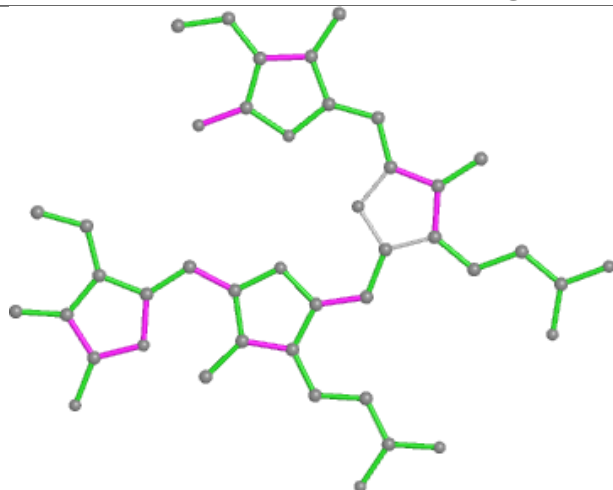


Torsions

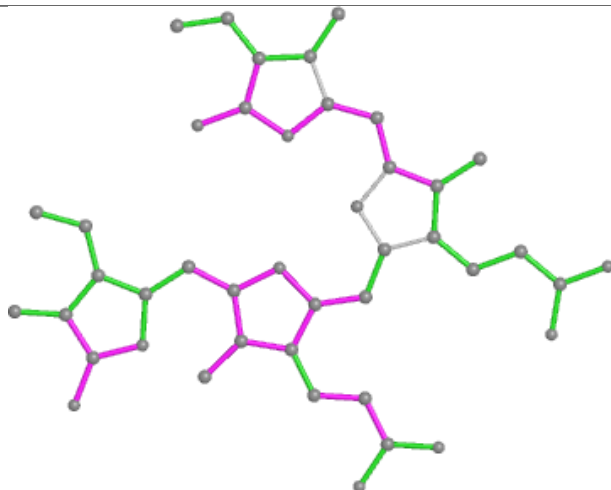


Rings

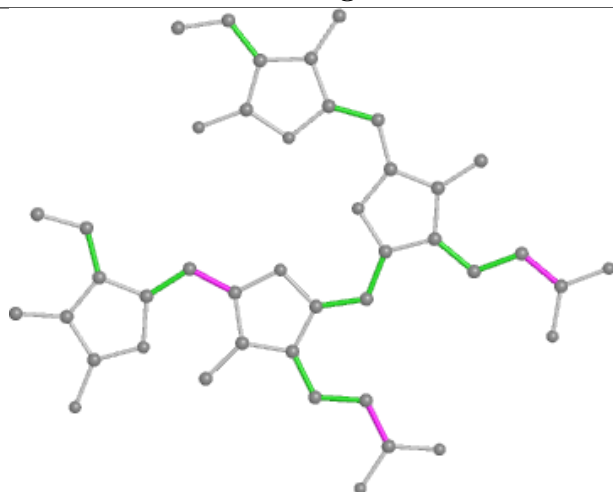
Ligand PEB K5 201



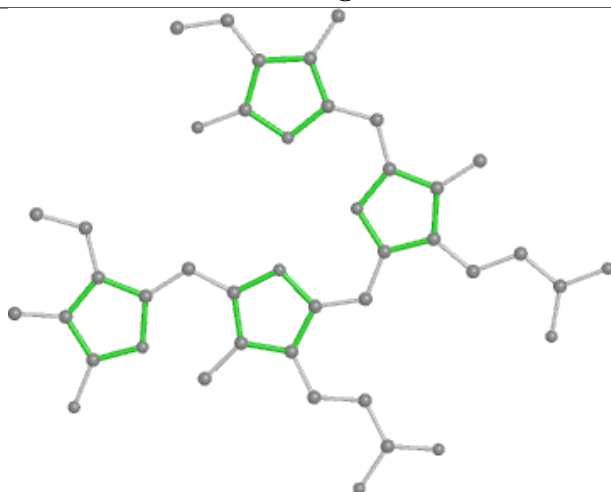
Bond lengths



Bond angles

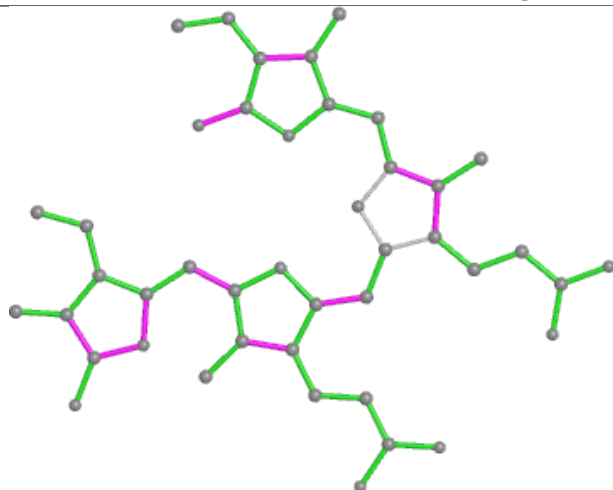


Torsions

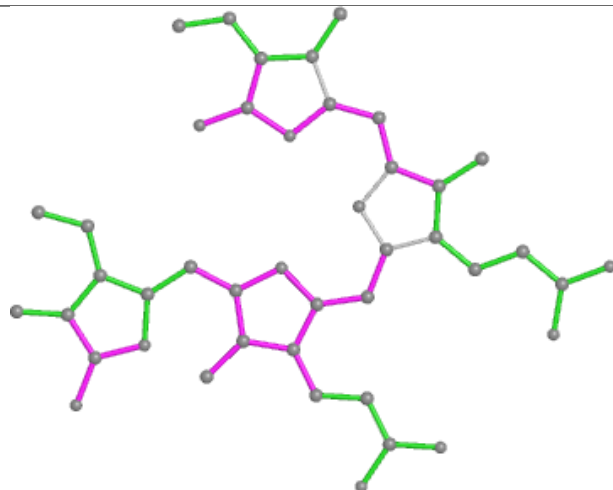


Rings

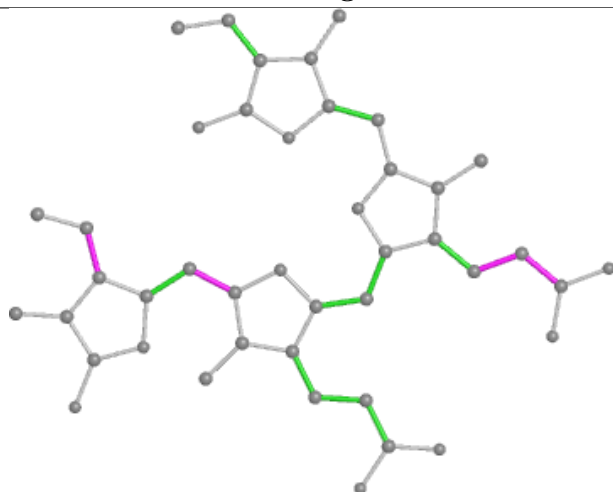
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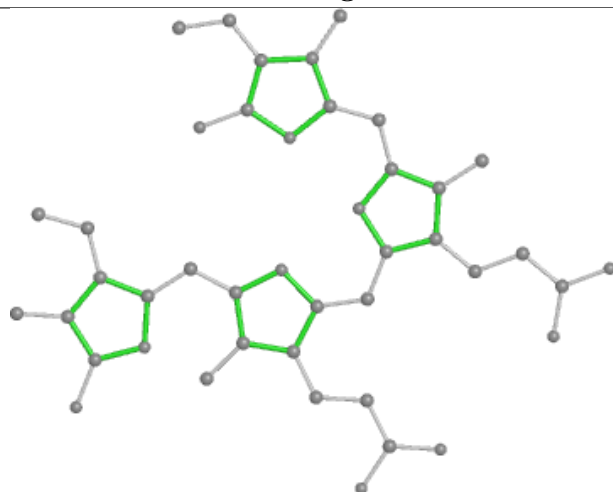
Bond lengths



Bond angles

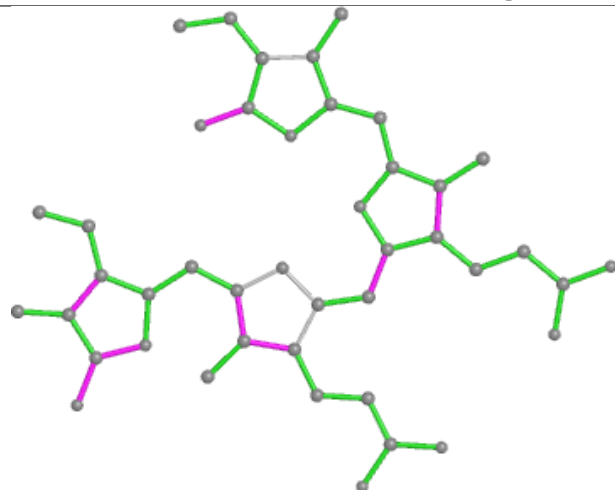


Torsions

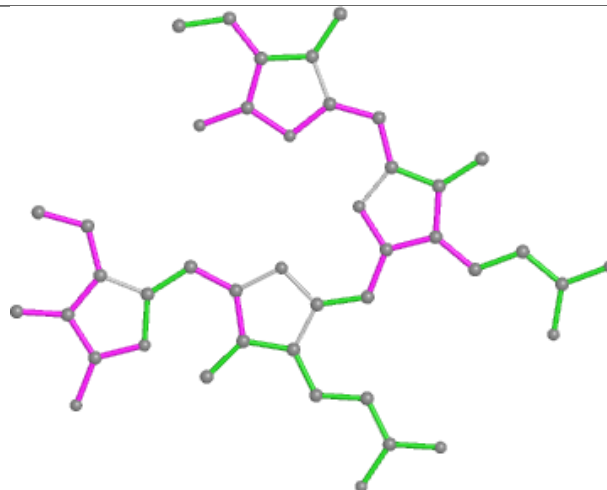


Rings

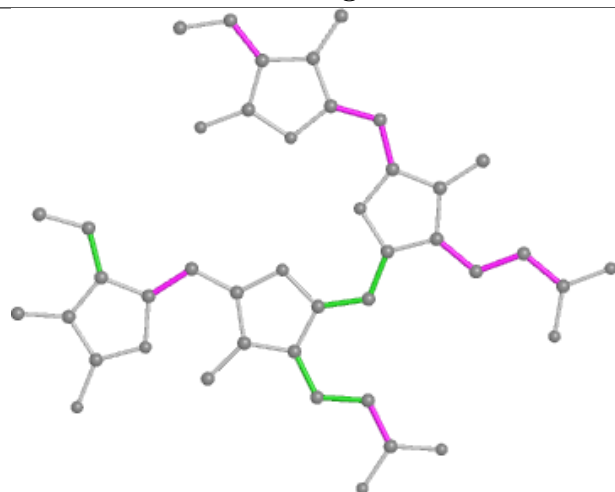
Ligand PUB AK 305



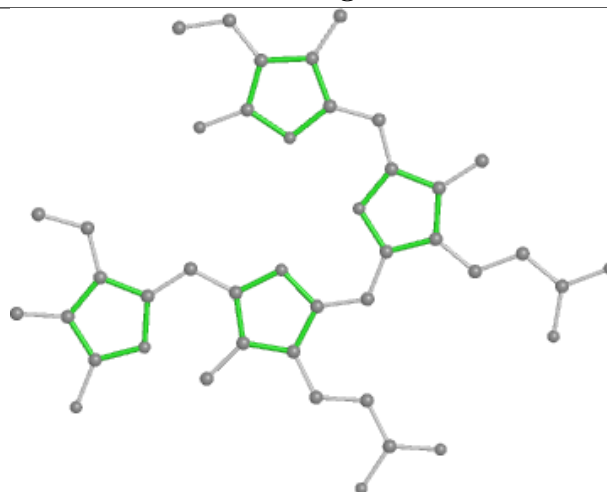
Bond lengths



Bond angles

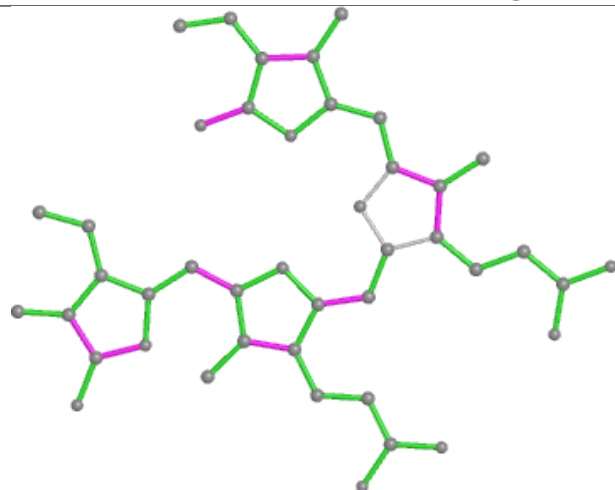


Torsions

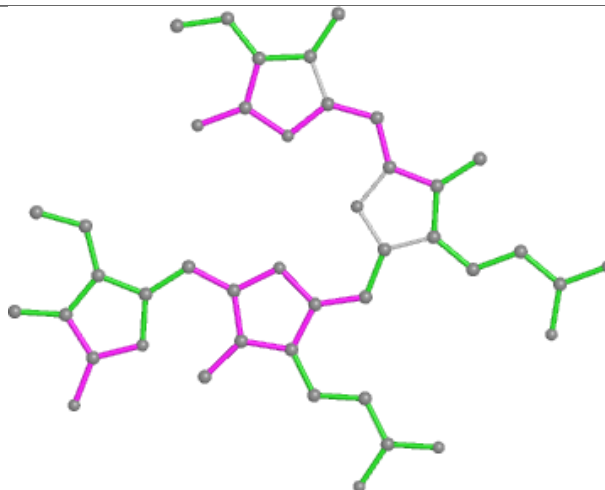


Rings

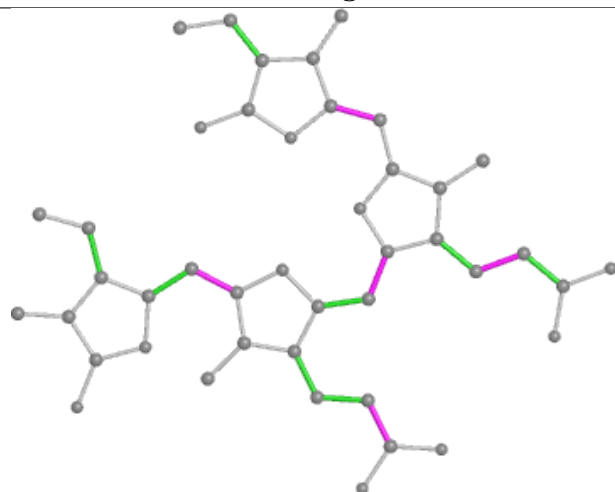
Ligand PEB JC 202



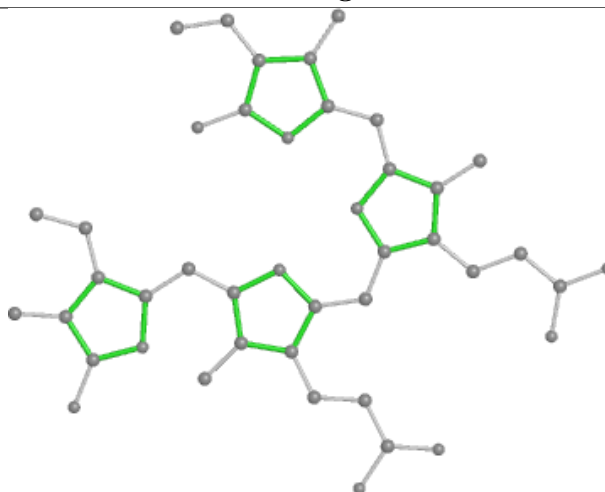
Bond lengths



Bond angles

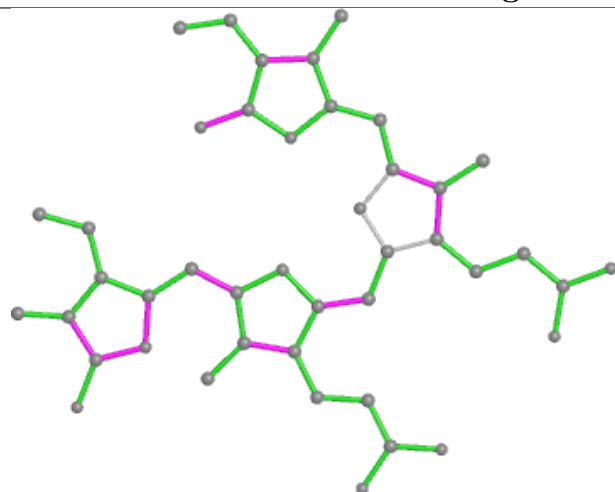


Torsions

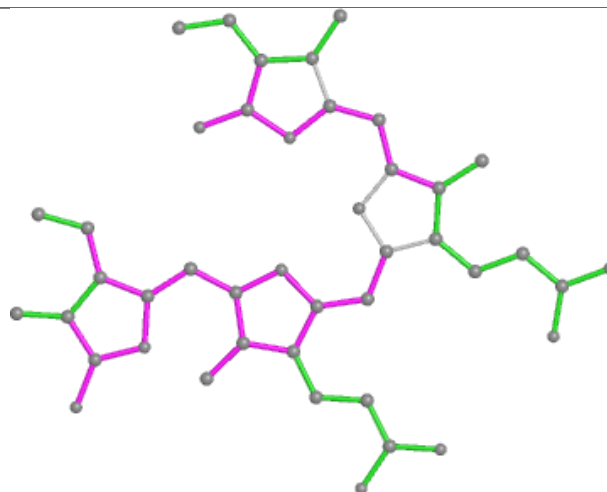


Rings

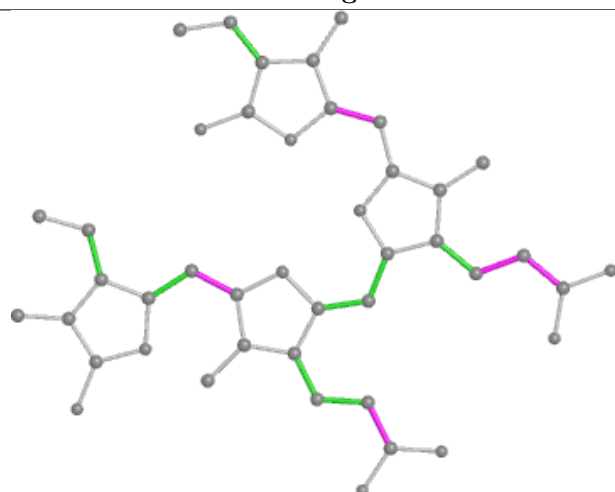
Ligand PEB AK 302



Bond lengths



Bond angles

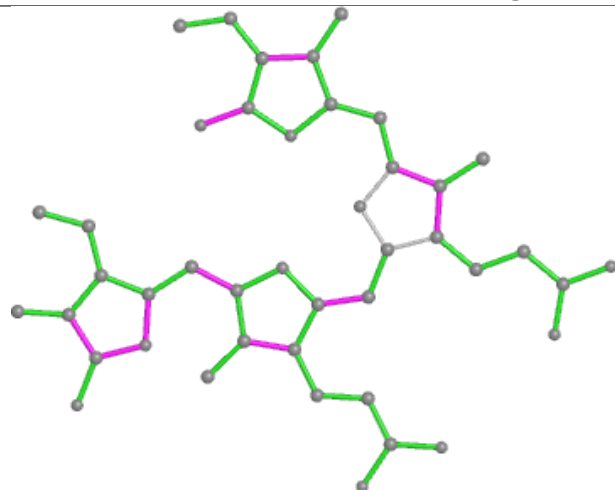


Torsions

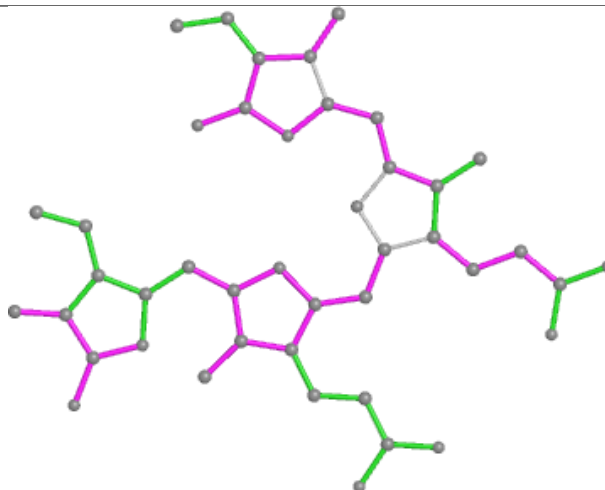


Rings

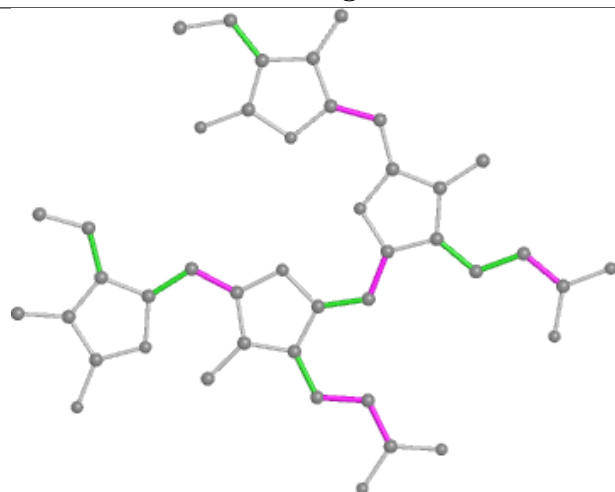
Ligand PEB G4 203



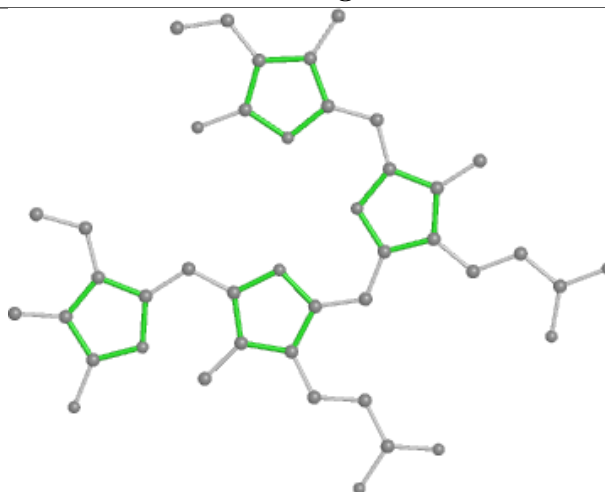
Bond lengths



Bond angles

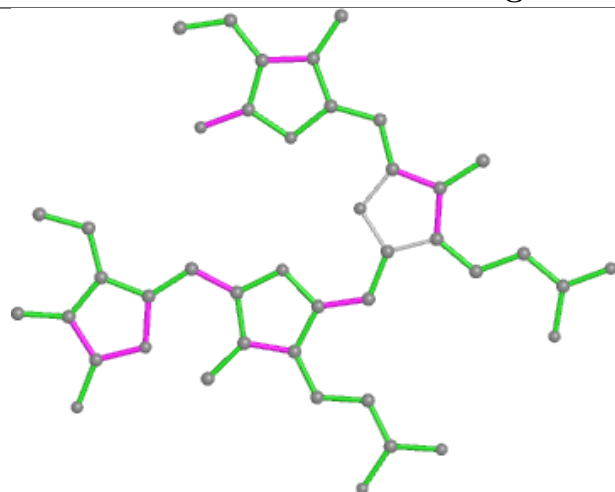


Torsions

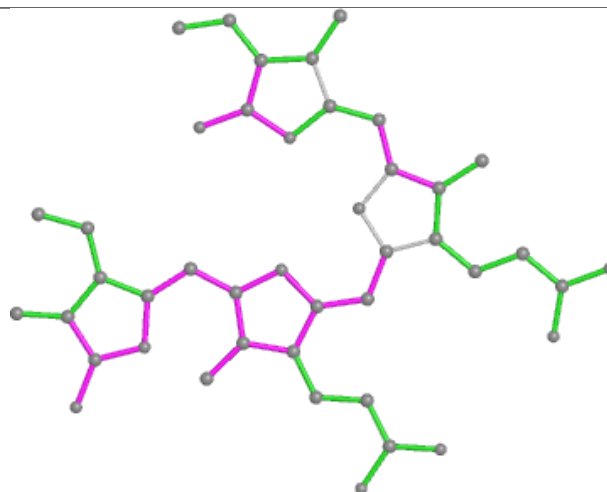


Rings

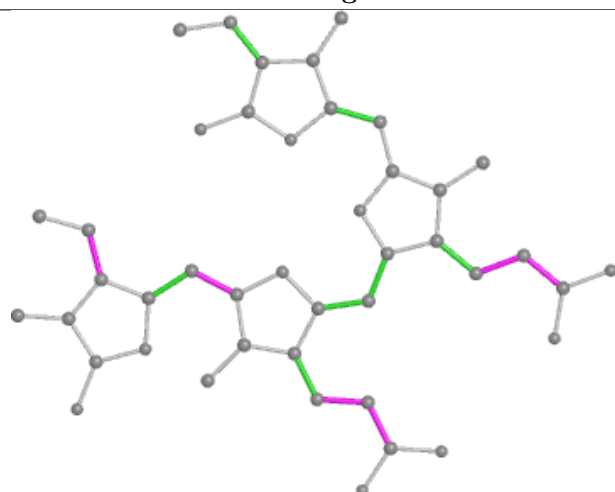
Ligand PEB dK 202



Bond lengths



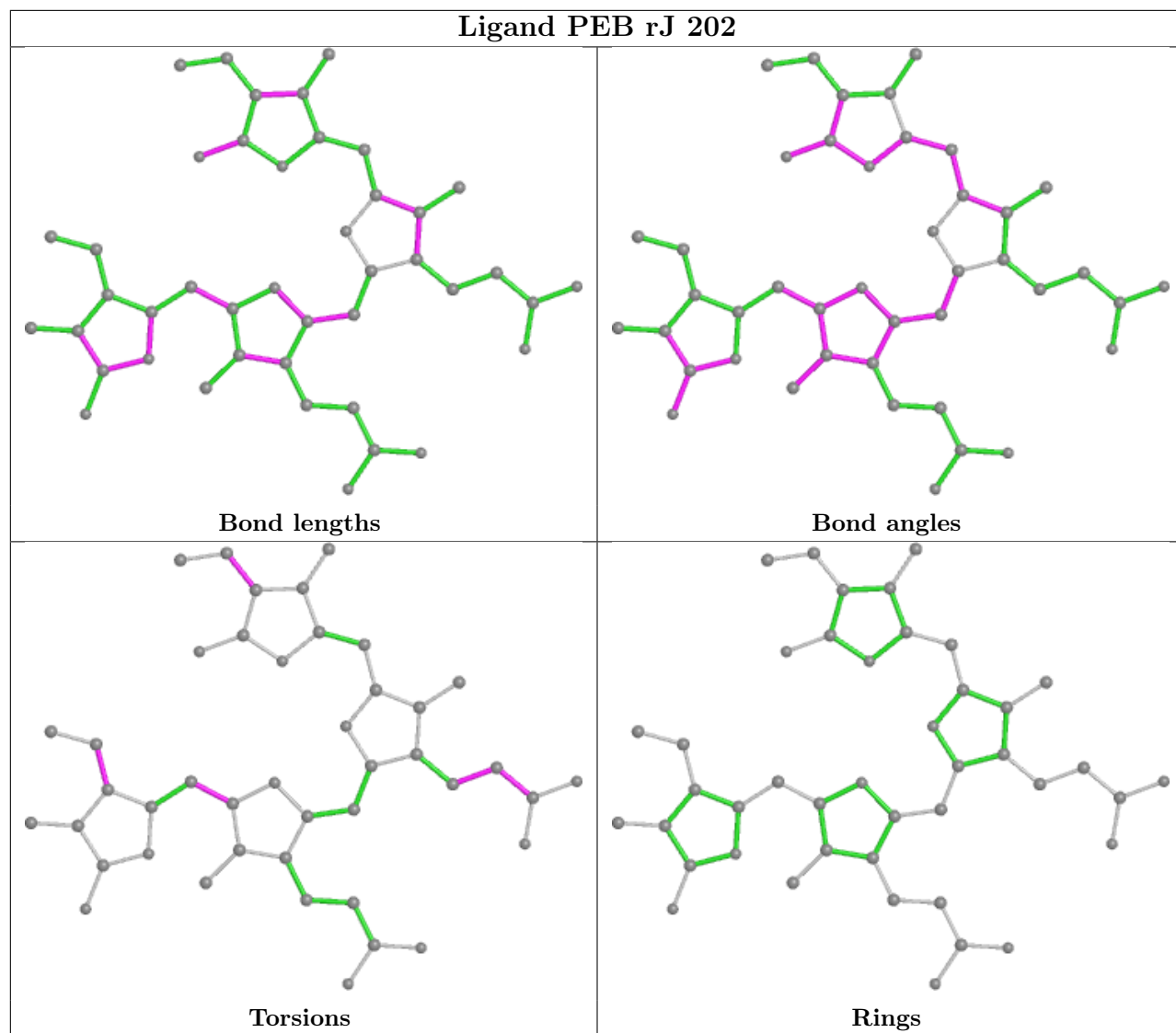
Bond angles



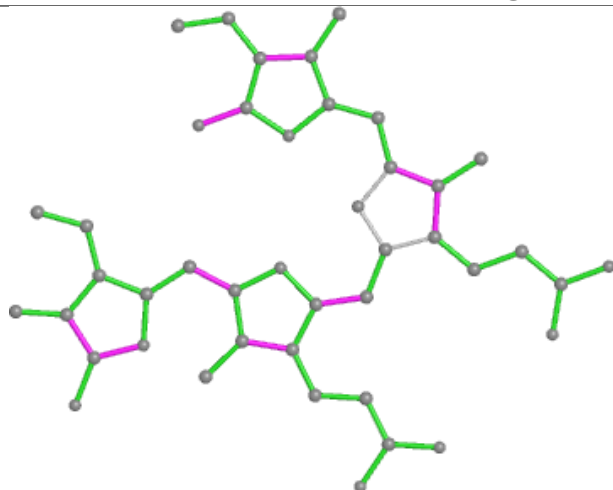
Torsions



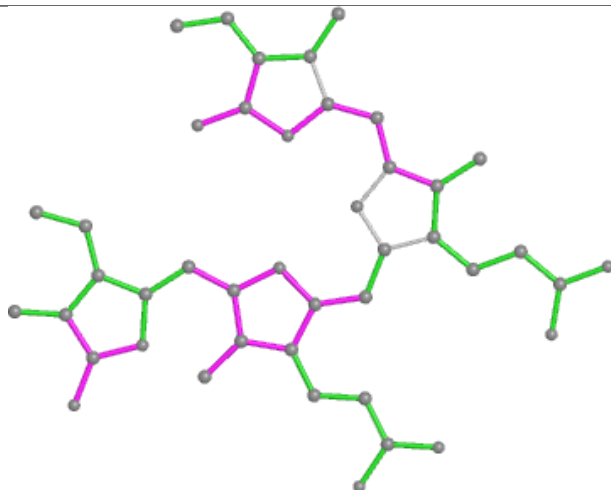
Rings



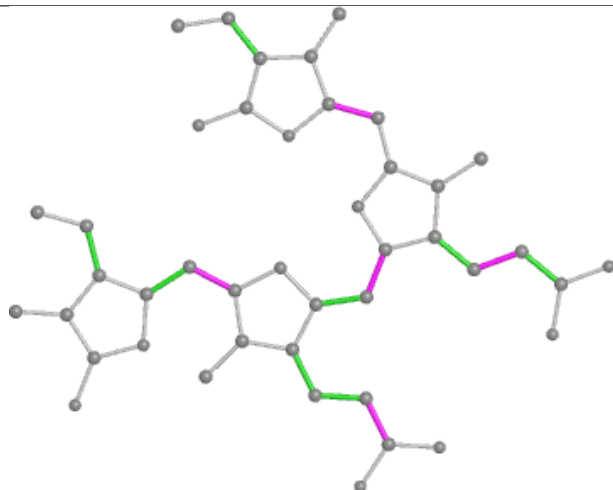
Ligand PEB FE 203



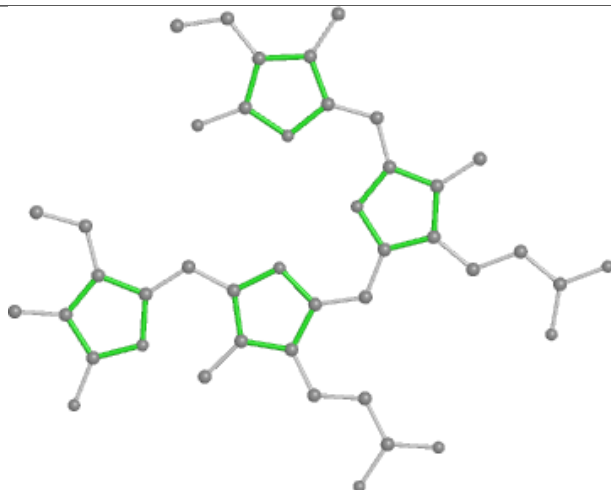
Bond lengths



Bond angles

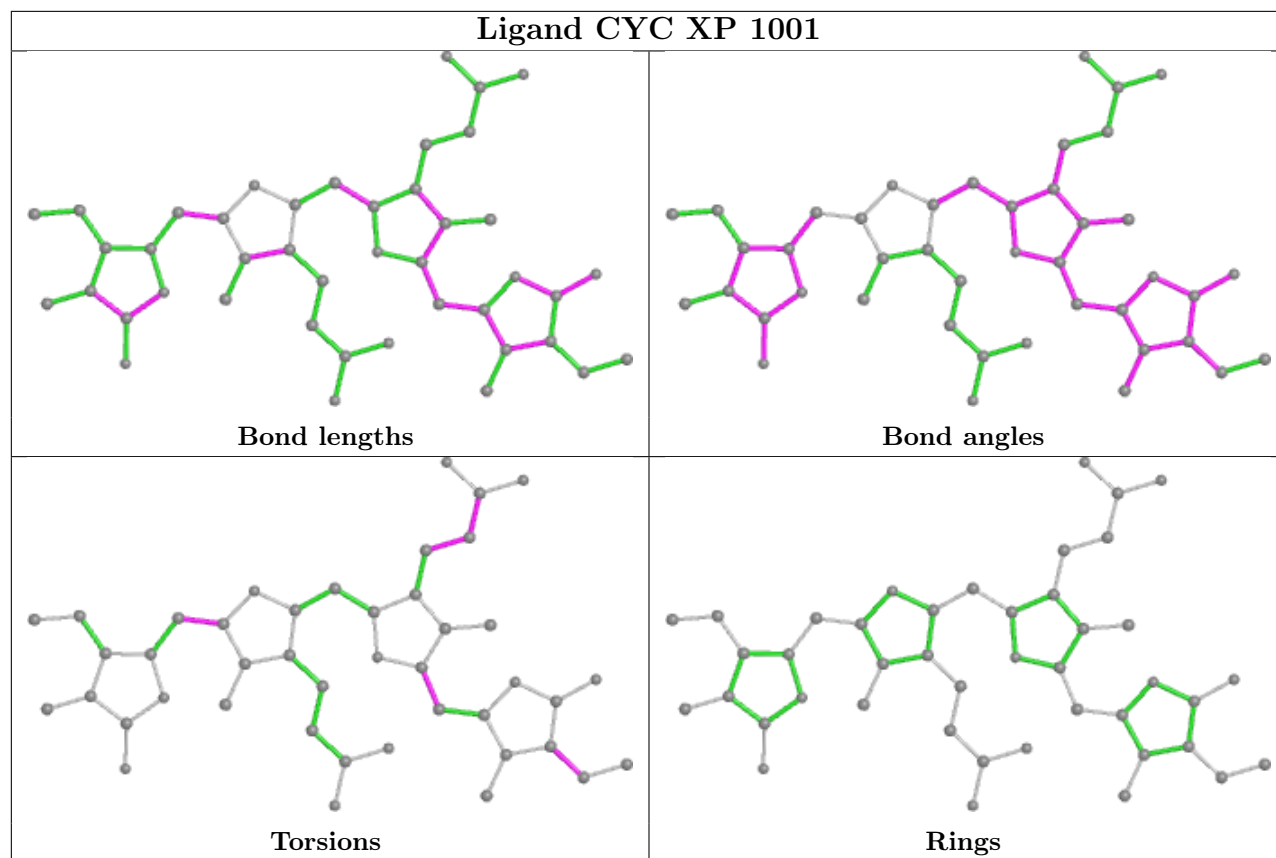


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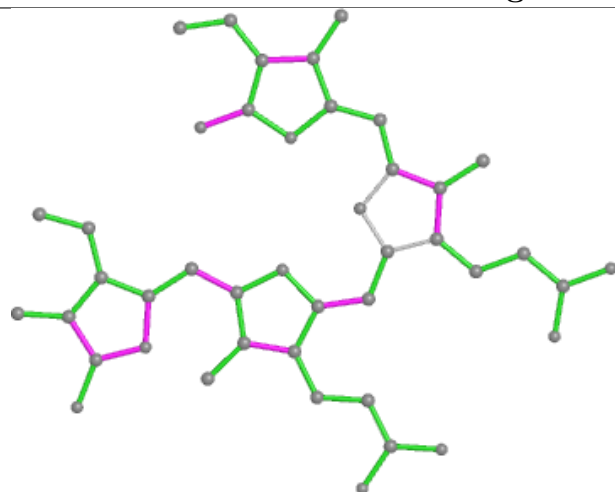


Rings

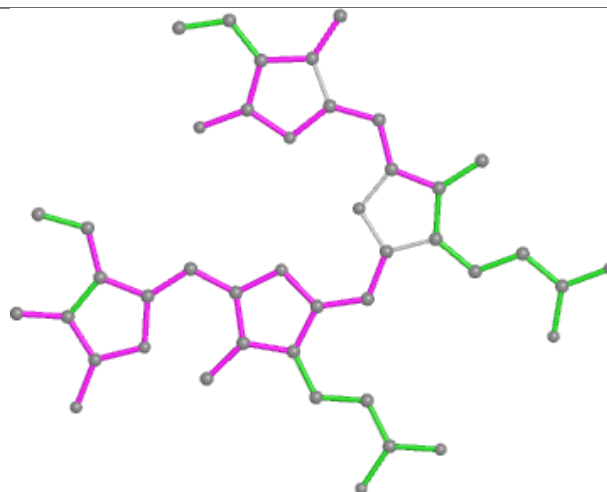
Ligand CYC XP 1001



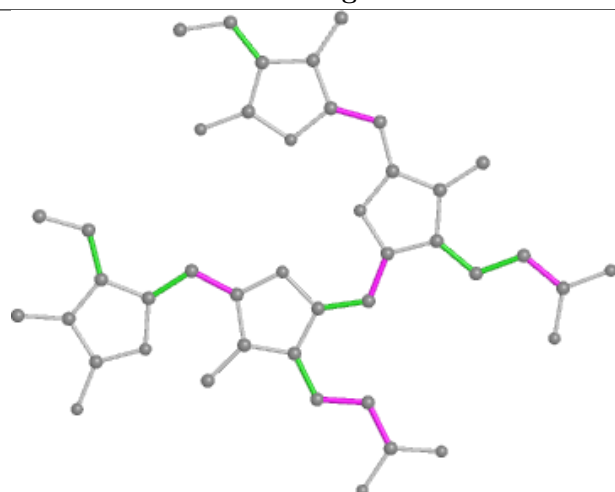
Ligand PEB JD 202



Bond lengths



Bond angles

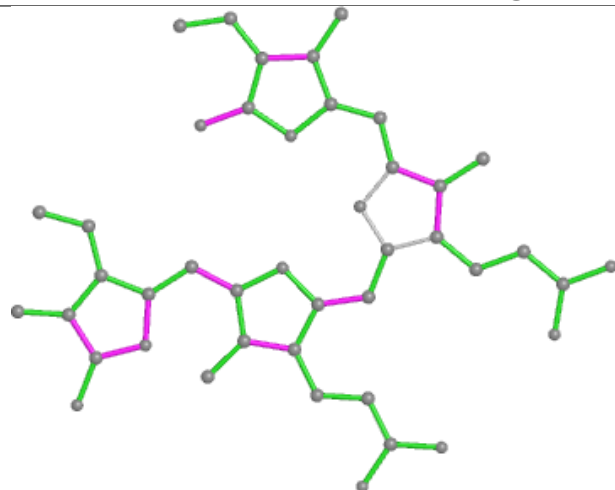


Torsions

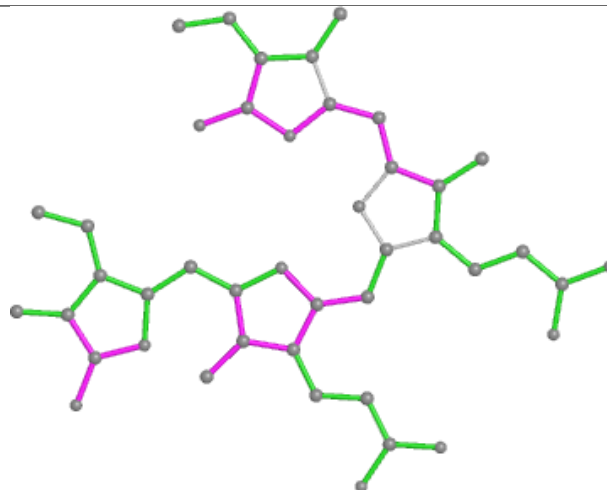


Rings

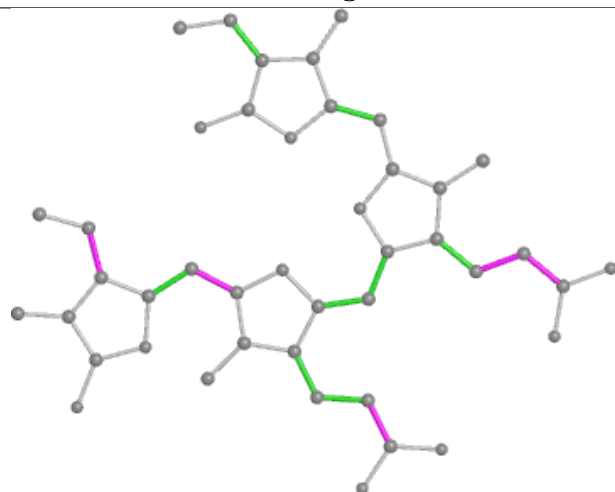
Ligand PEB C8 202



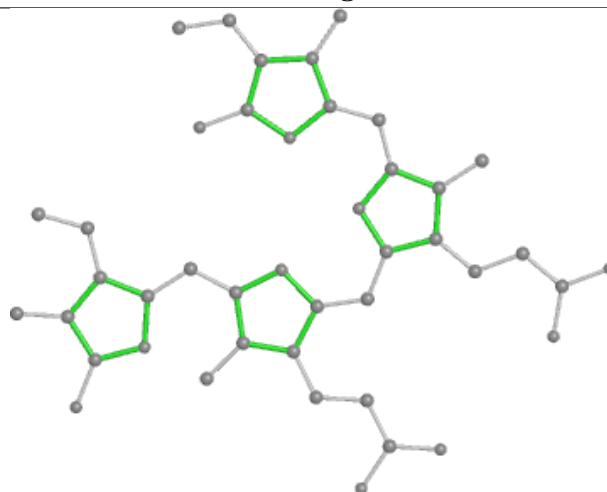
Bond lengths



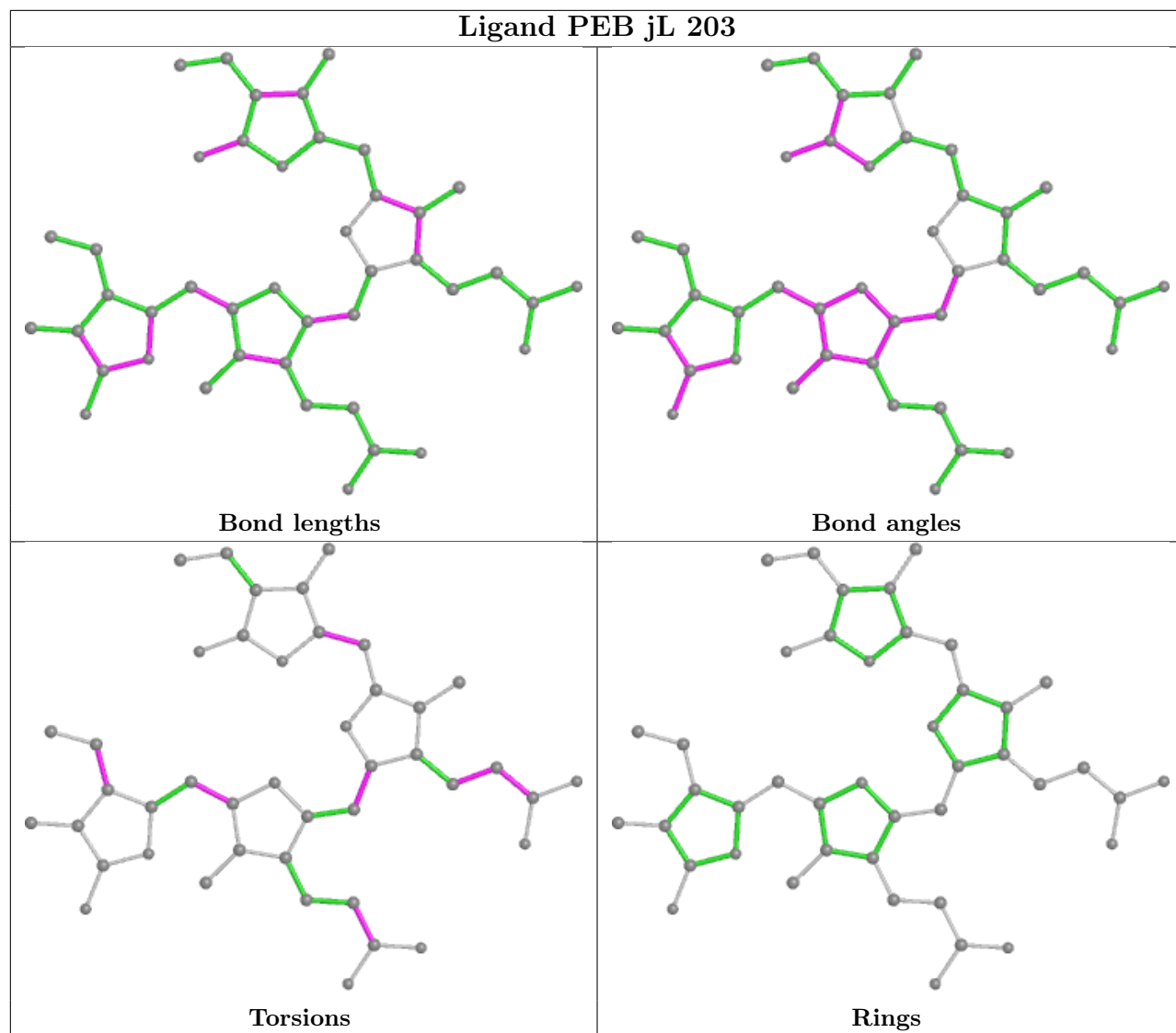
Bond angles

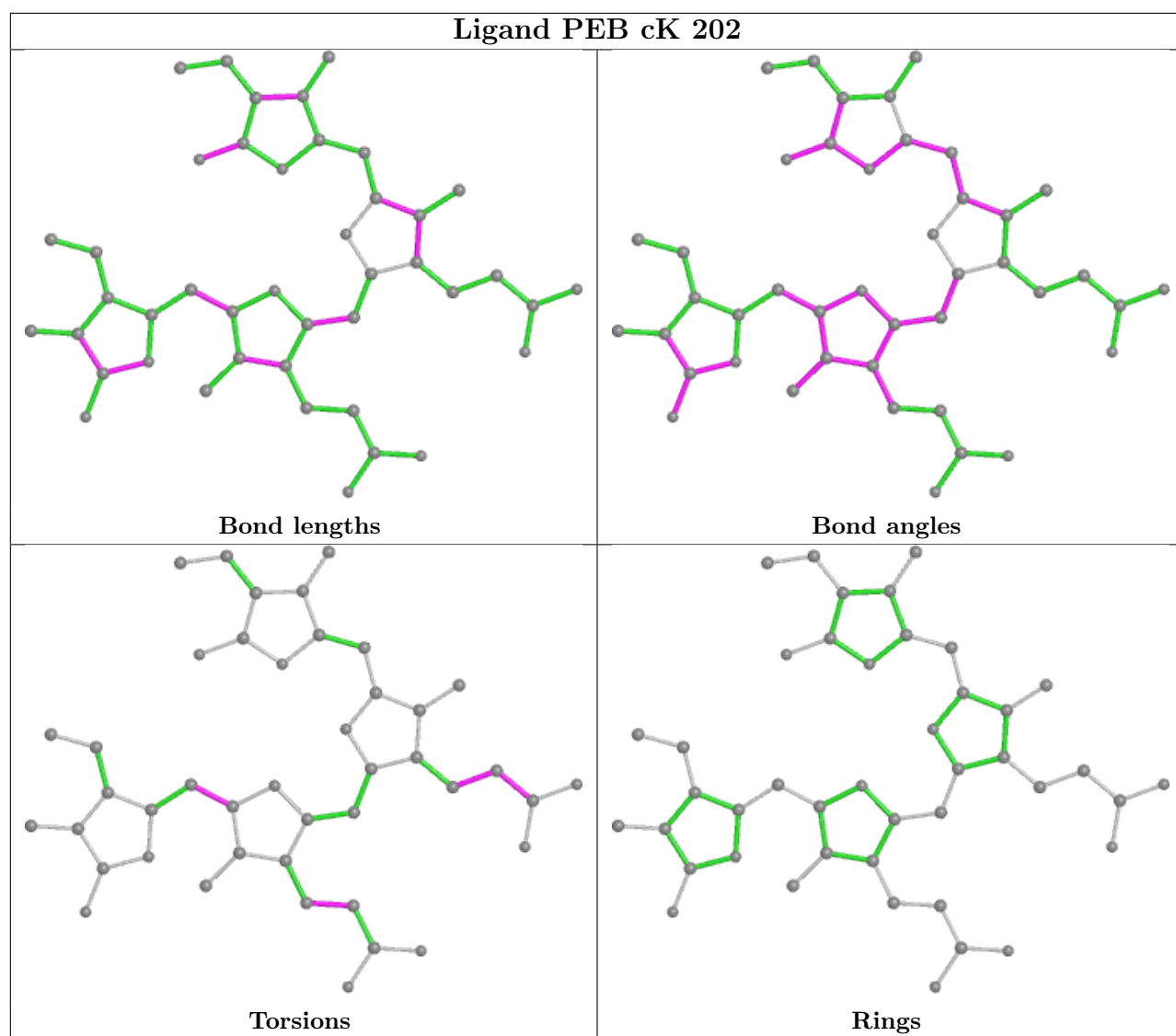


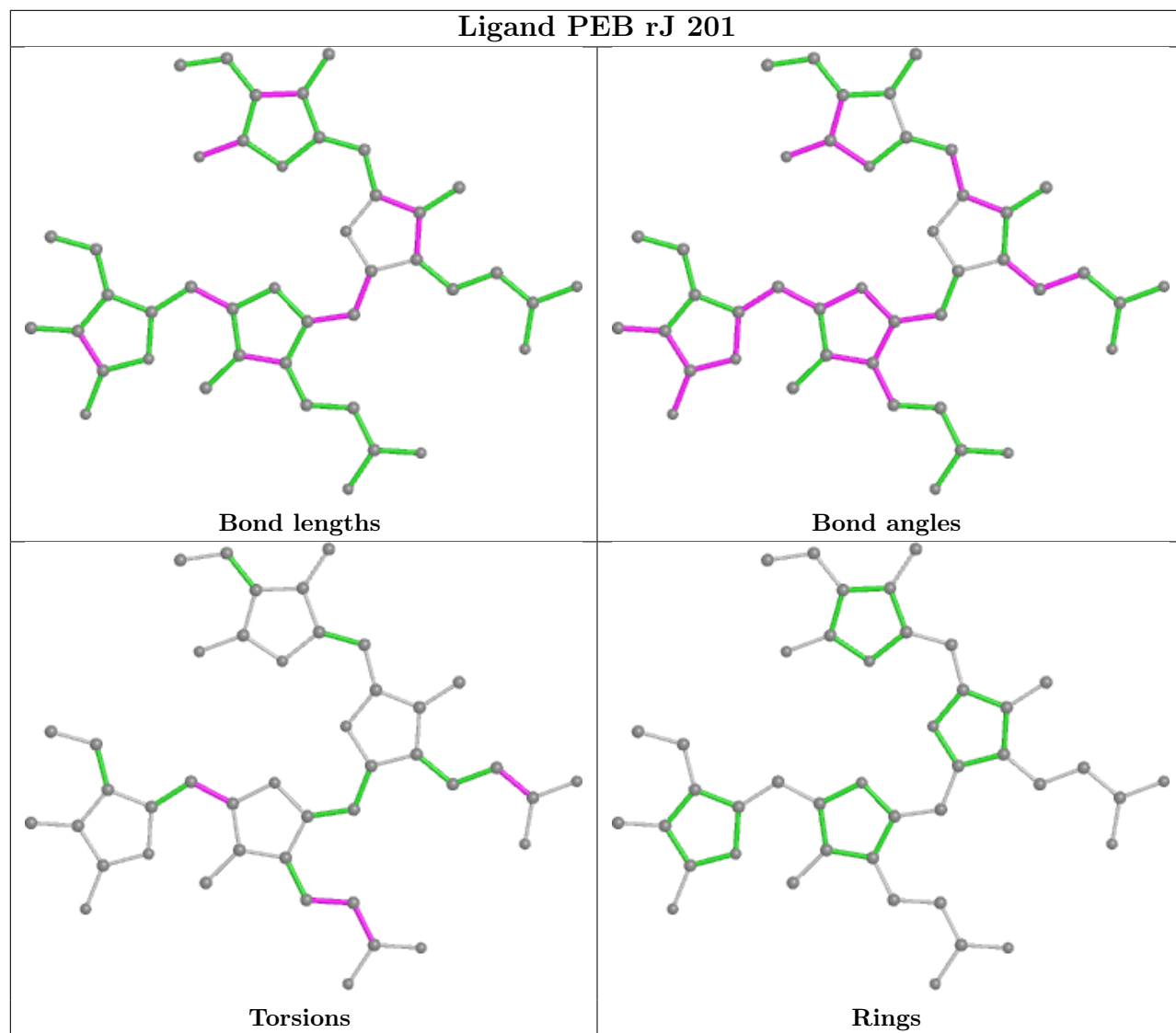
Torsions



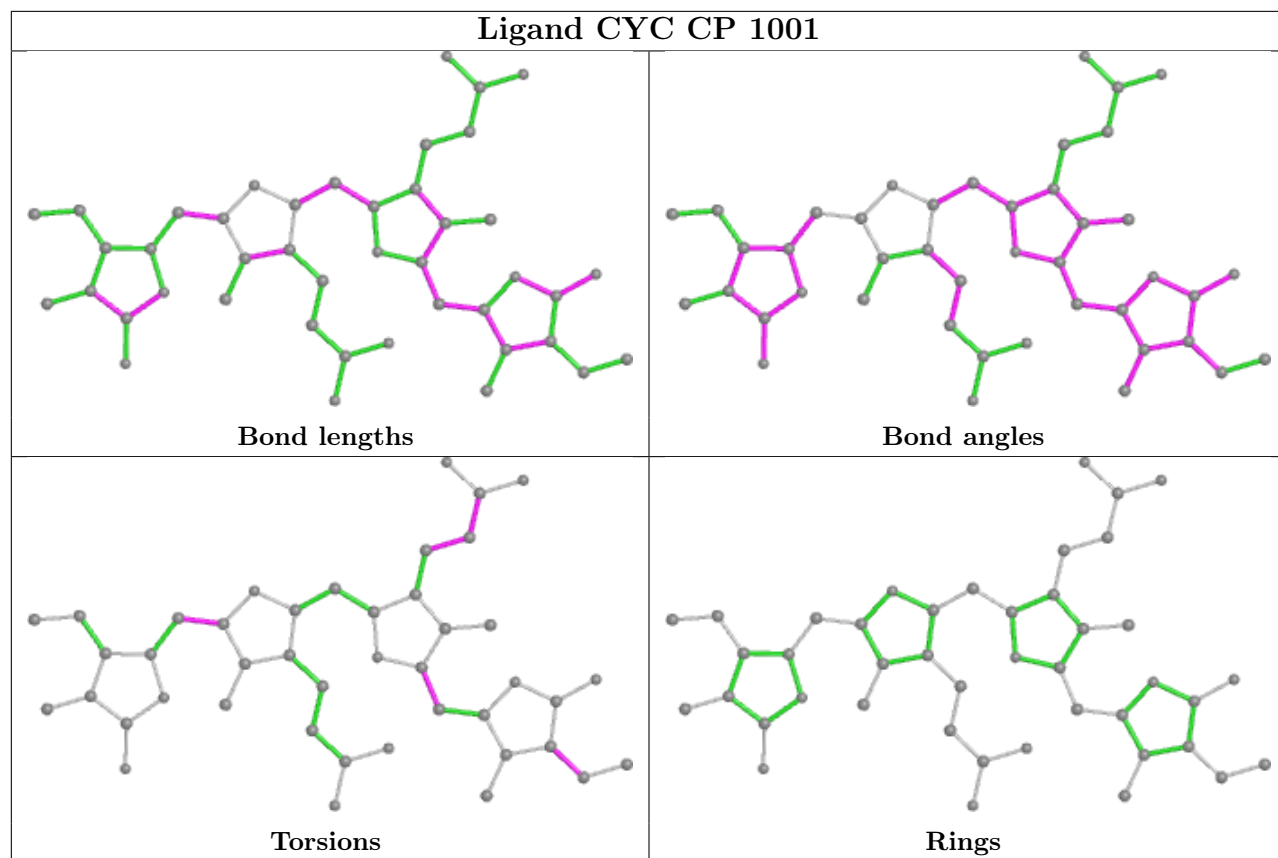
Rings



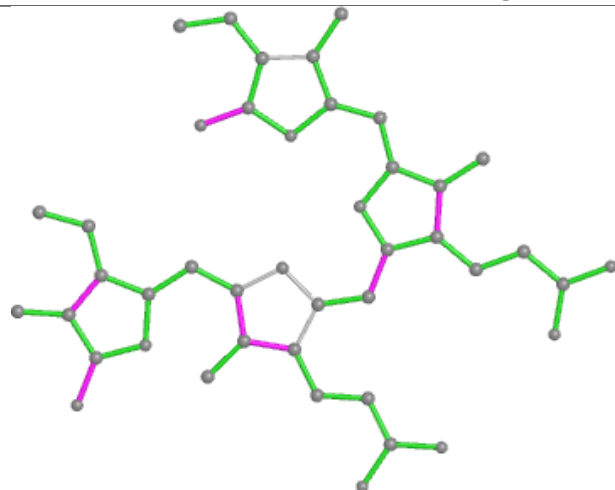




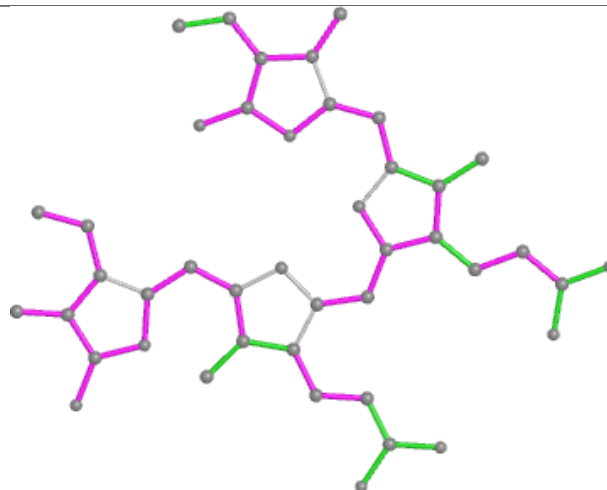
Ligand CYC CP 1001



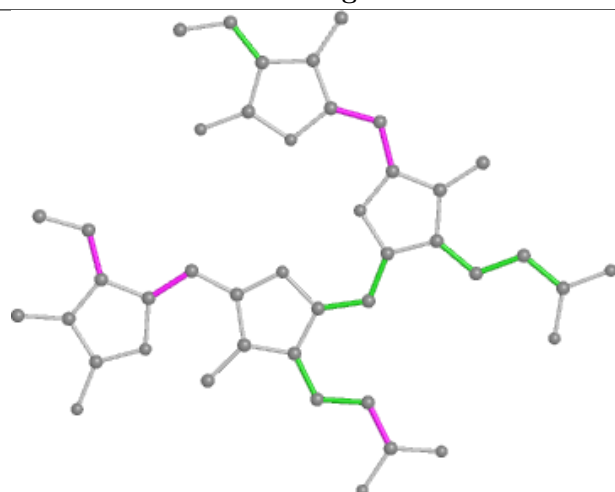
Ligand PUB MA 402



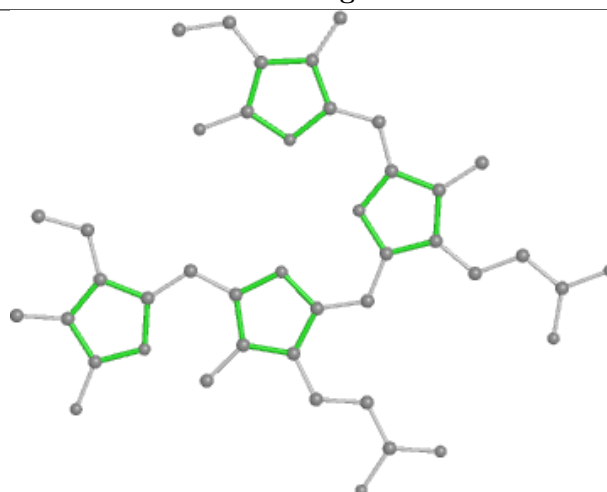
Bond lengths



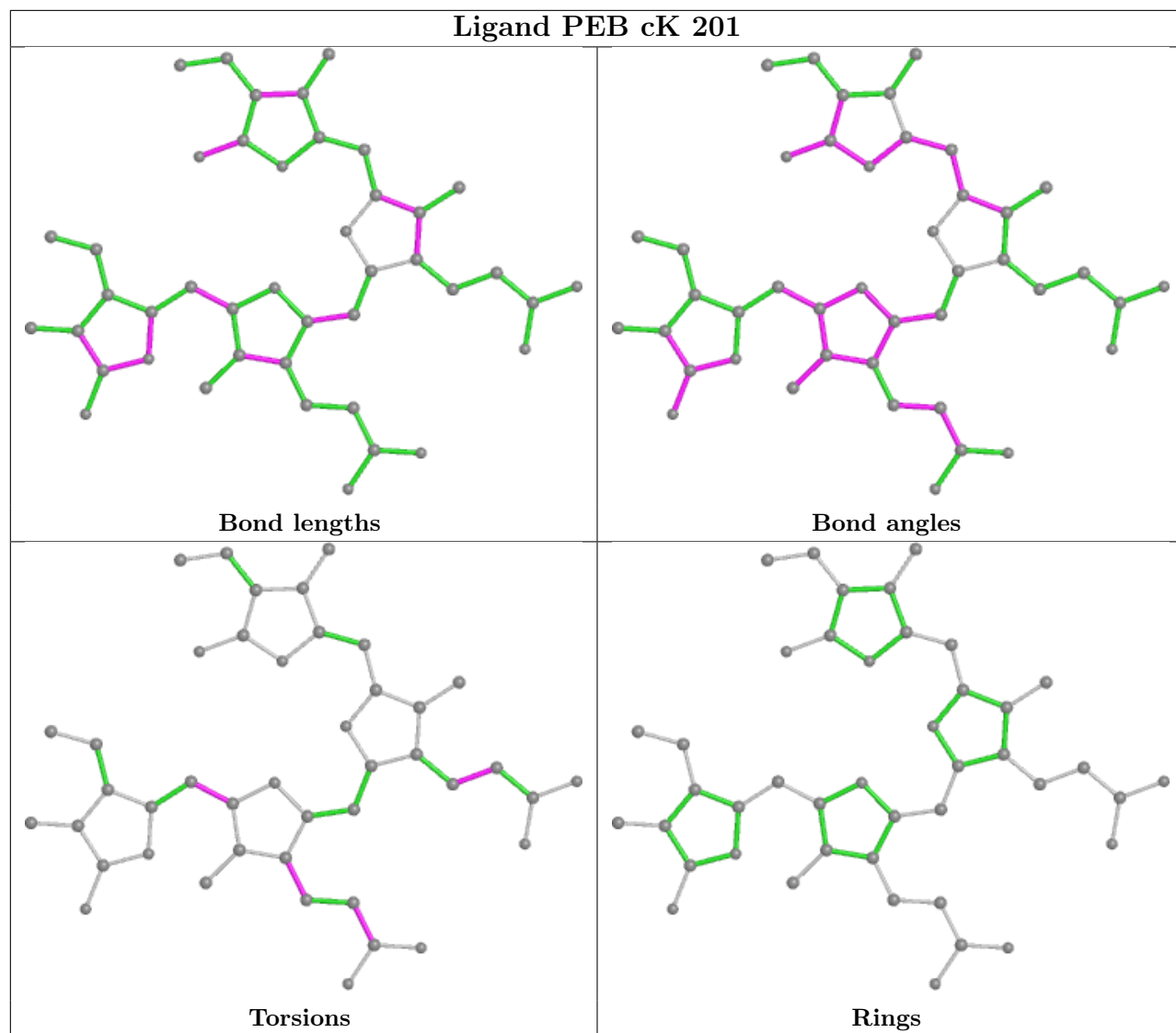
Bond angles

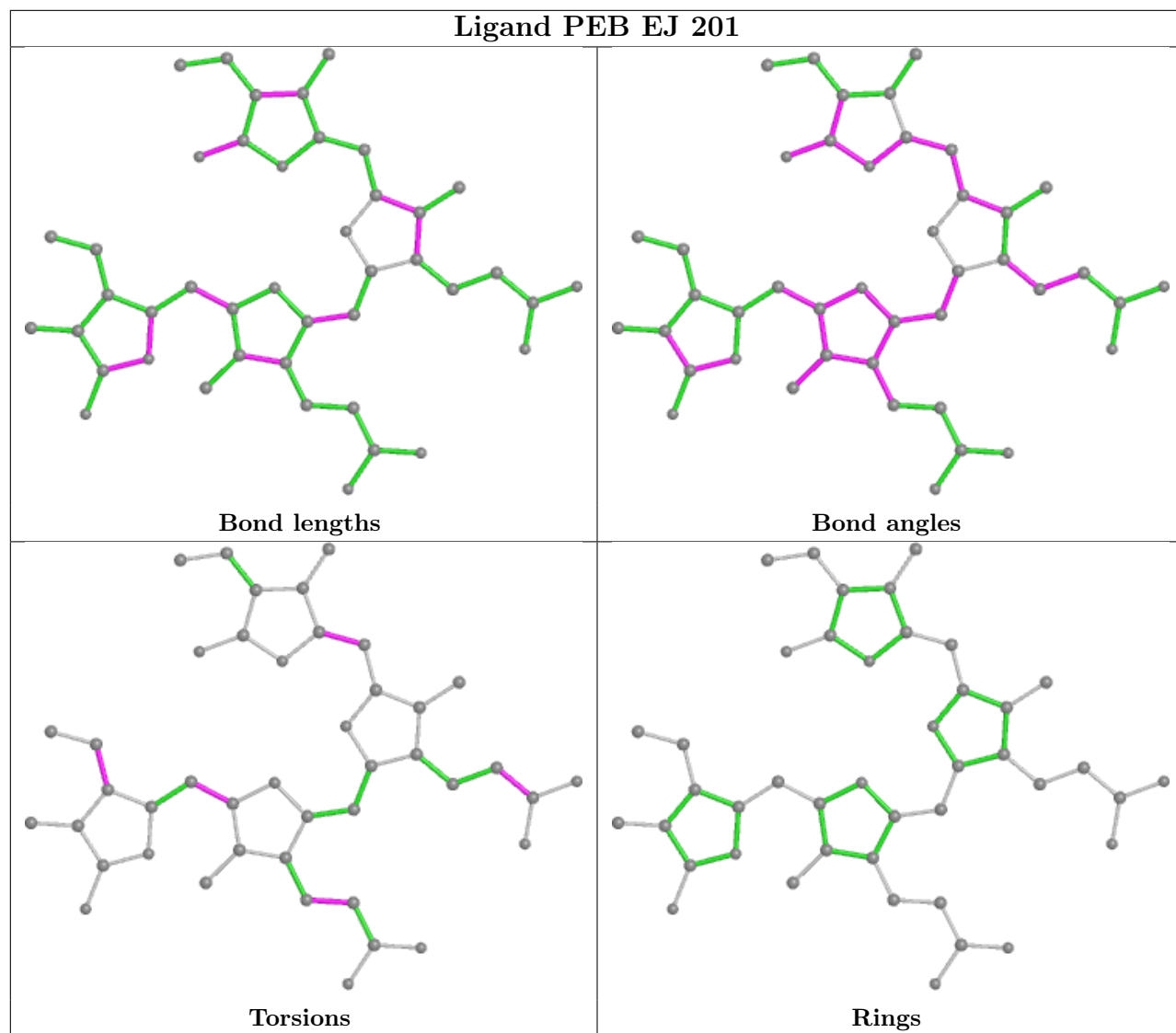


Torsions

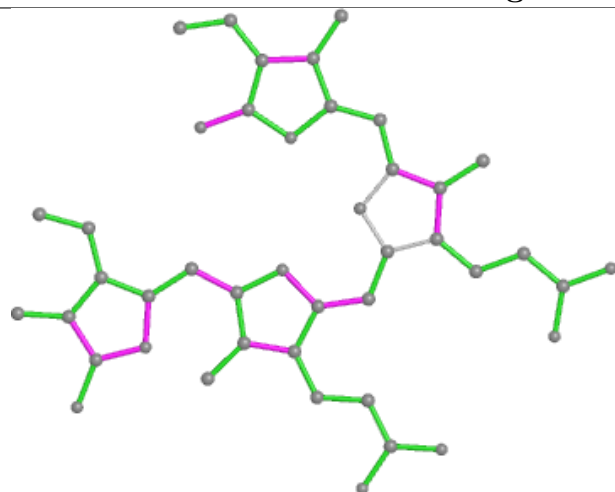


Rings

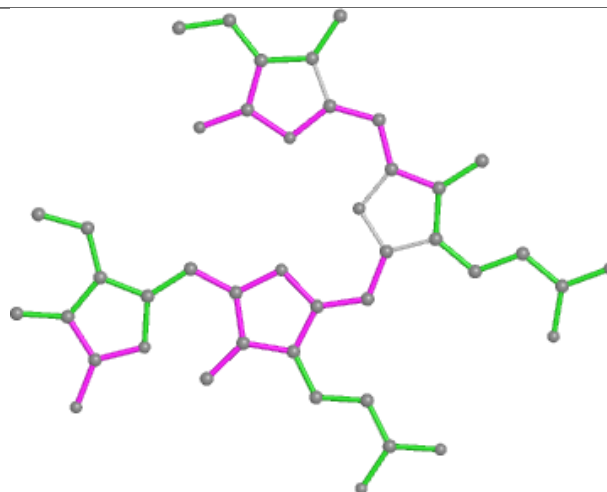




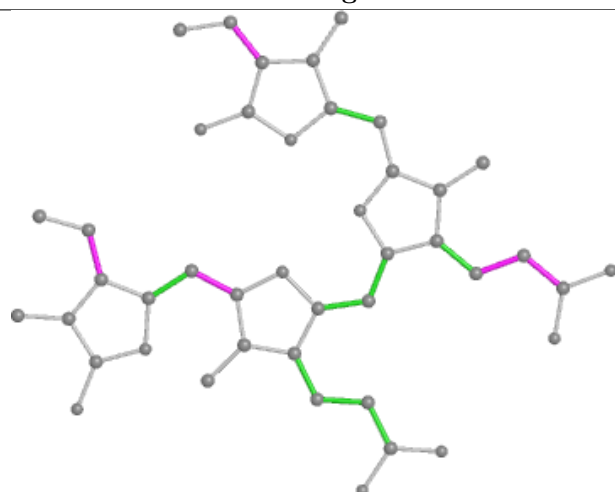
Ligand PEB BL 202



Bond lengths



Bond angles

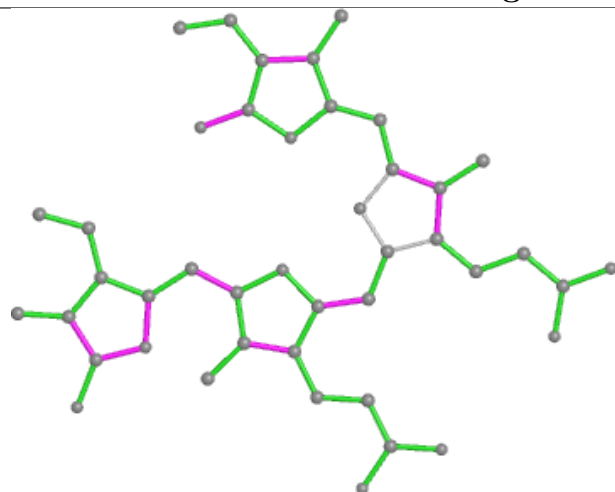


Torsions

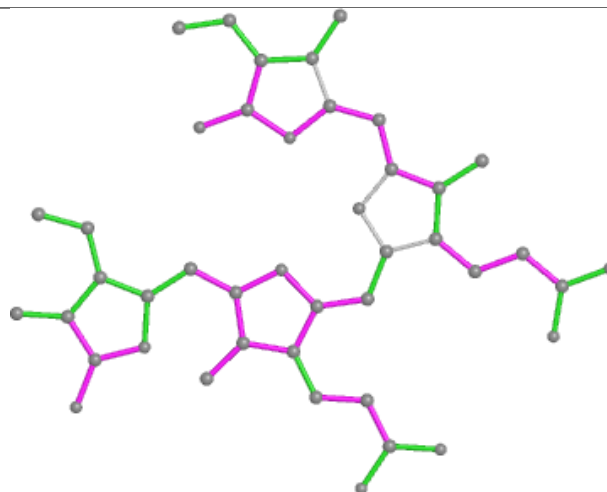


Rings

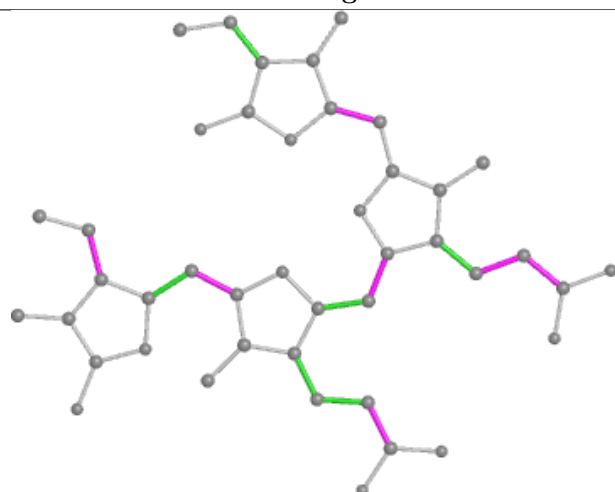
Ligand PEB VR 203



Bond lengths



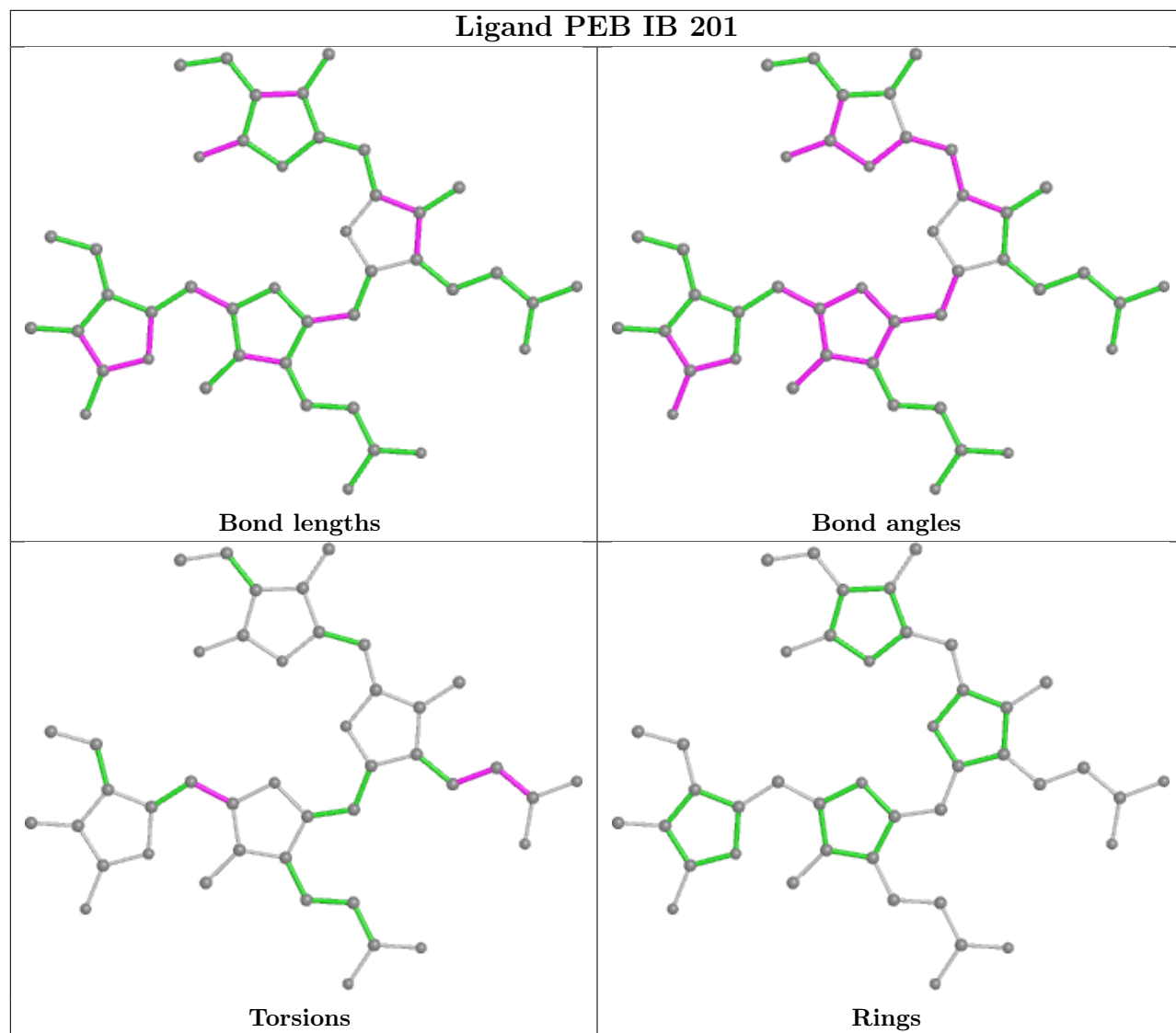
Bond angles



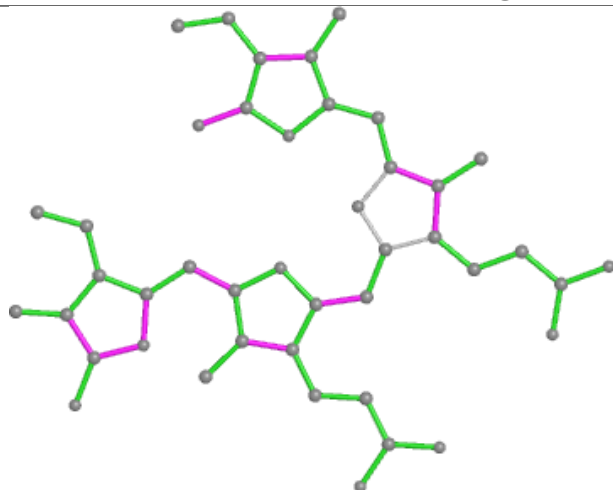
Torsions



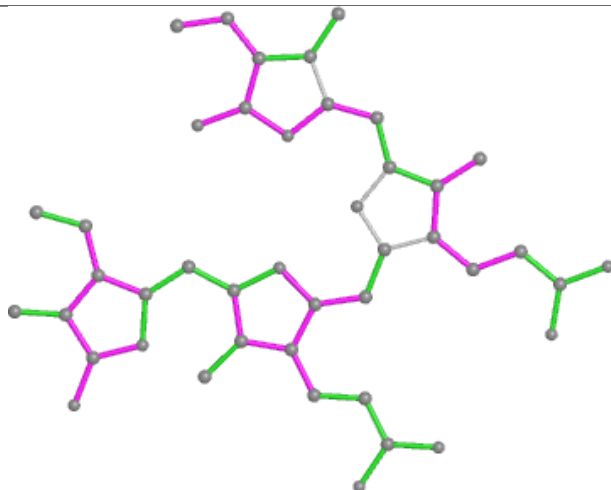
Rings



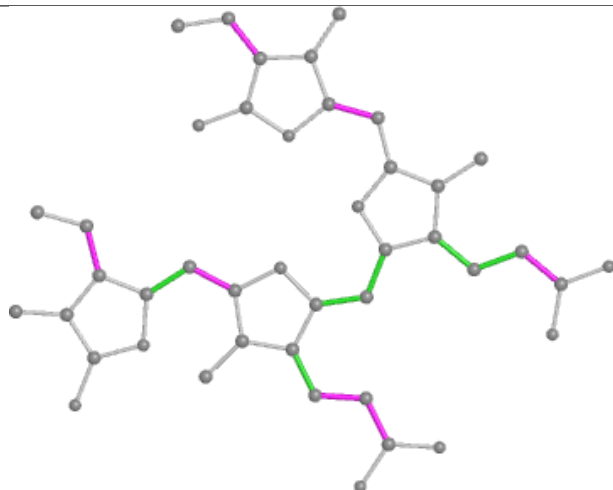
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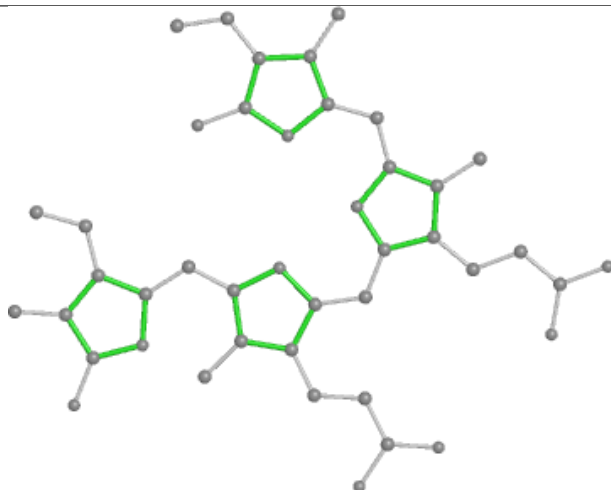
Bond lengths



Bond angles

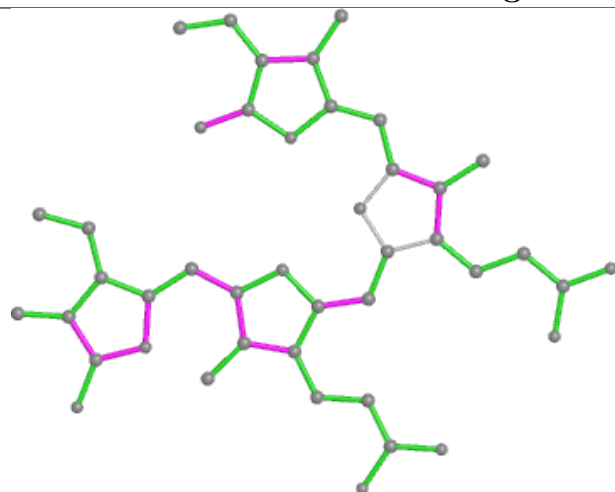


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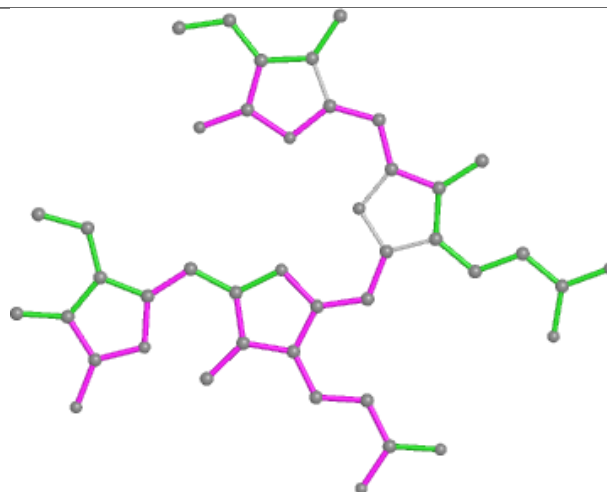


Rings

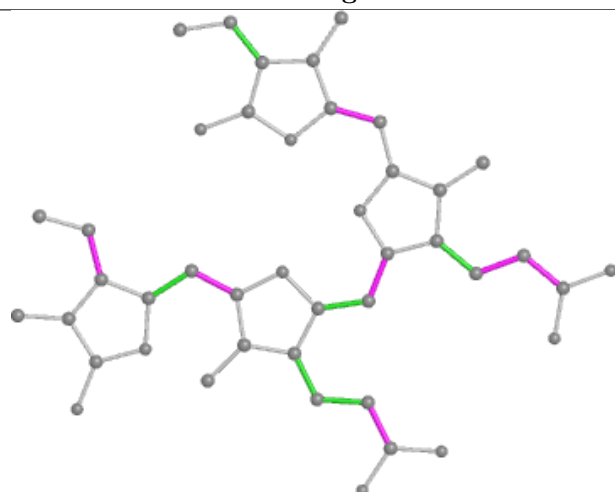
Ligand PEB XB 202



Bond lengths



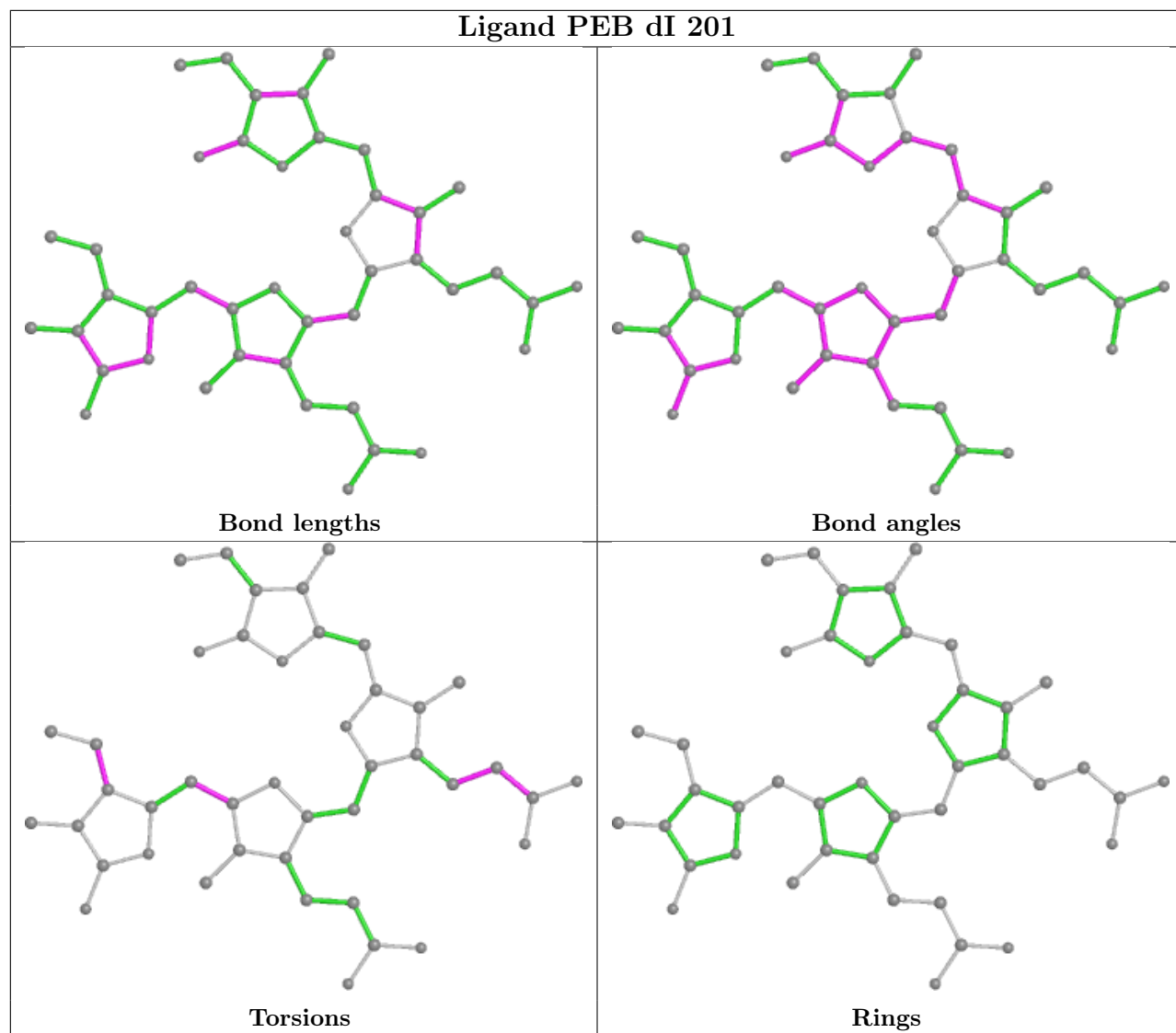
Bond angles

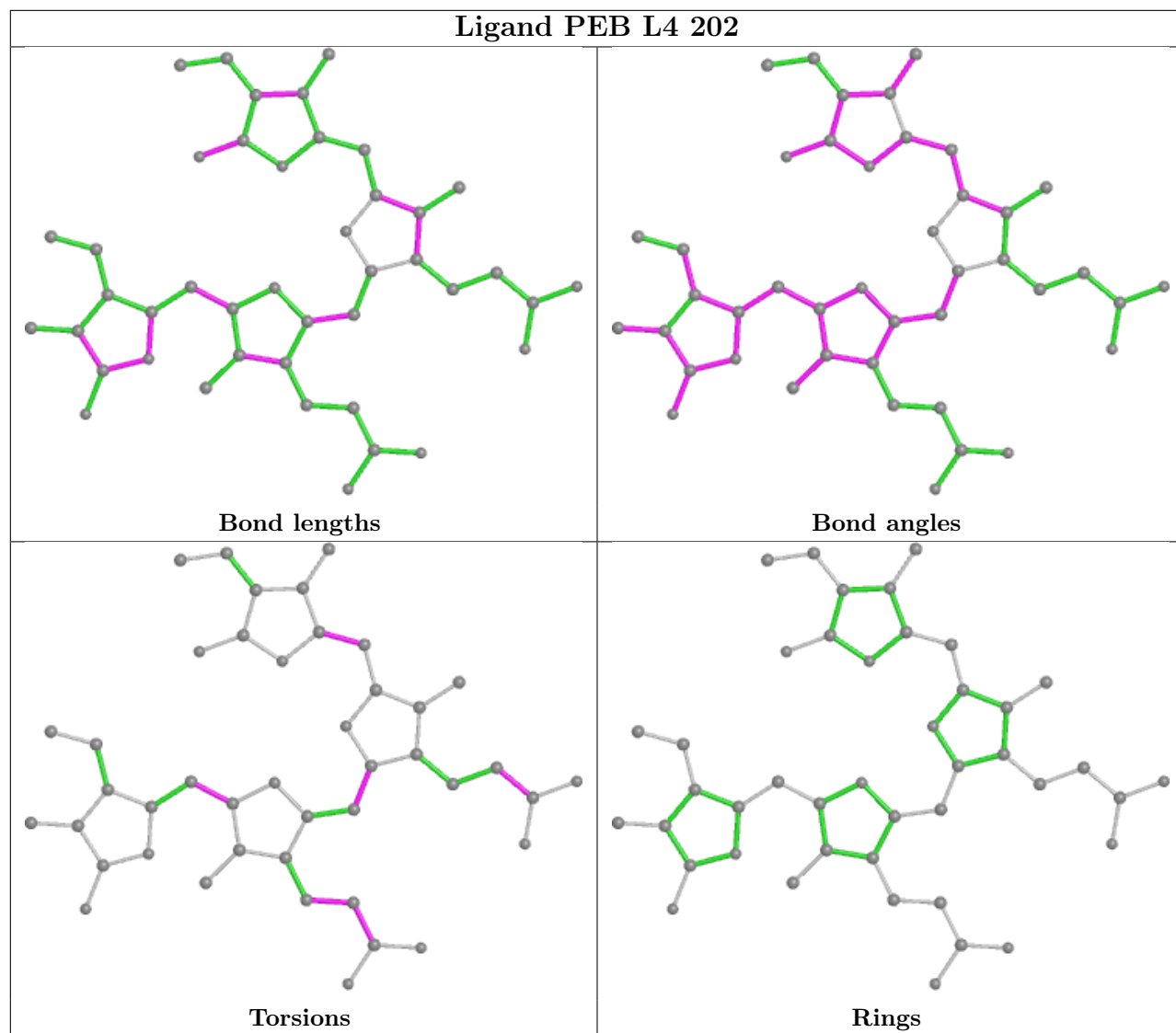


Torsions

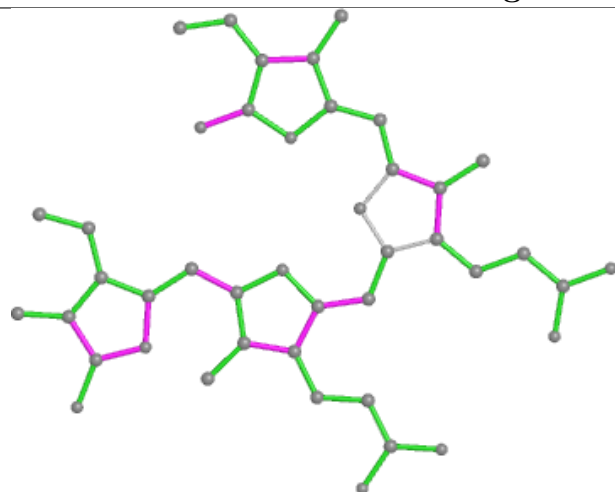


Rings

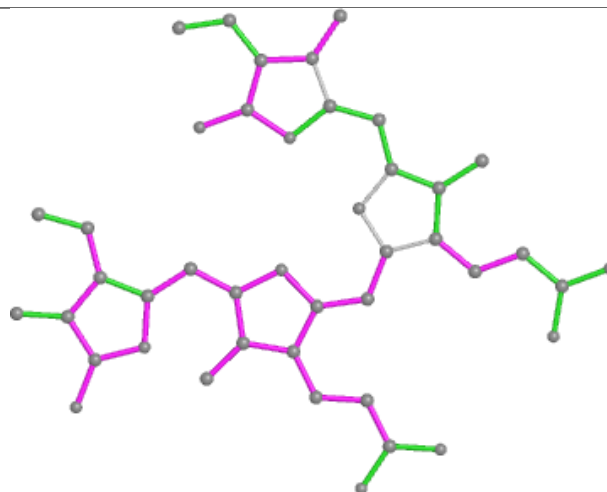




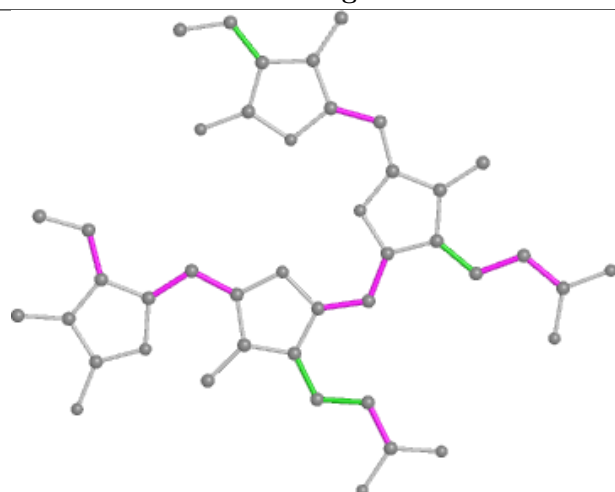
Ligand PEB CA 202



Bond lengths



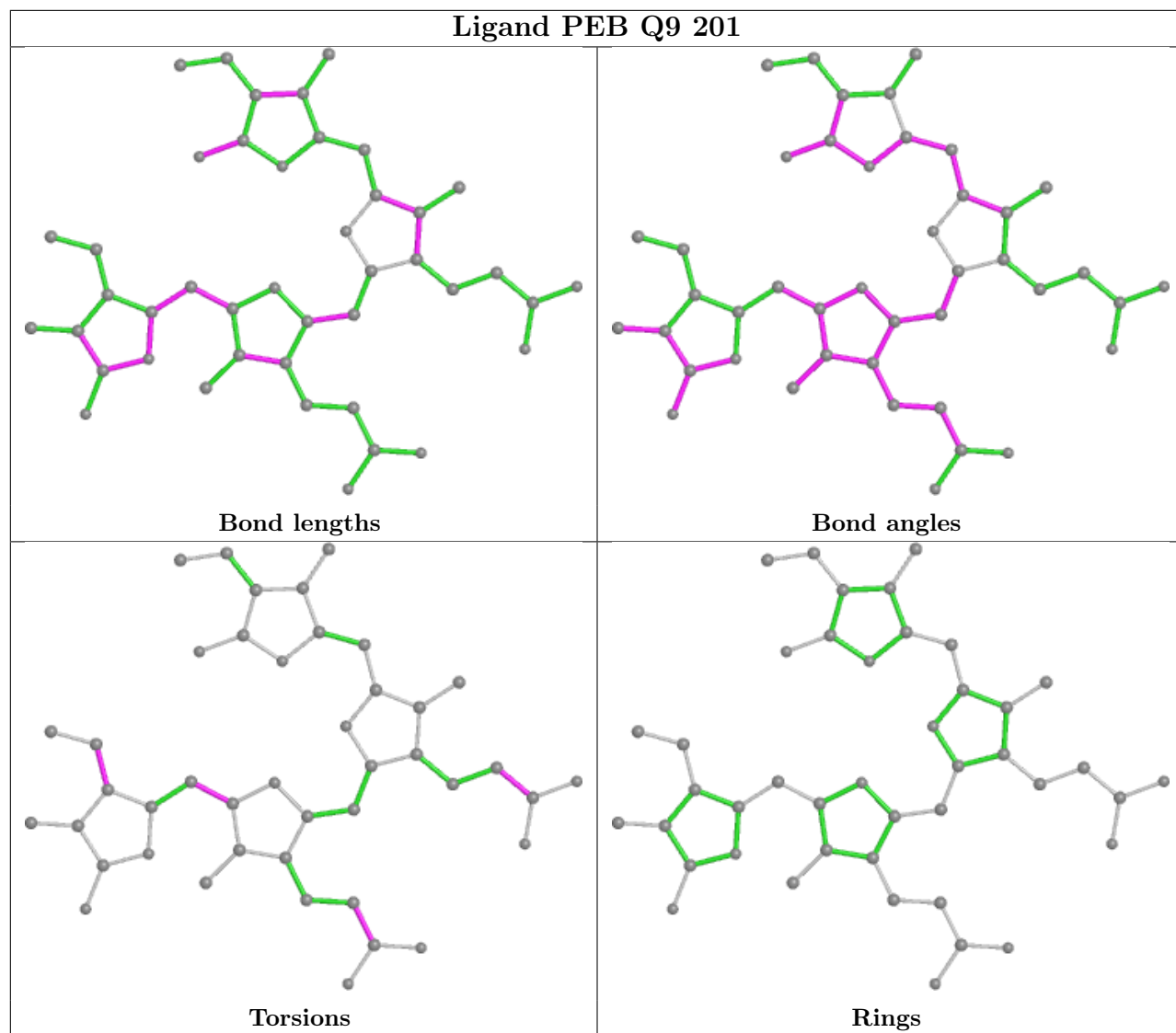
Bond angles



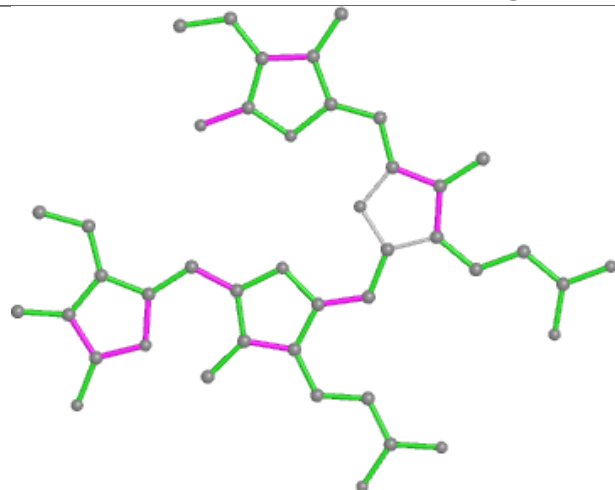
Torsions



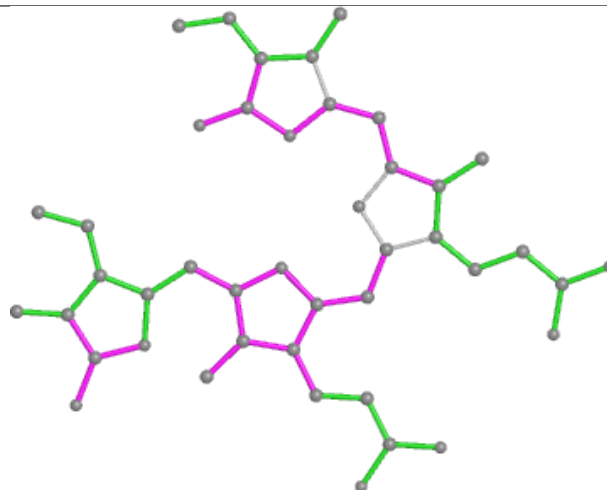
Rings



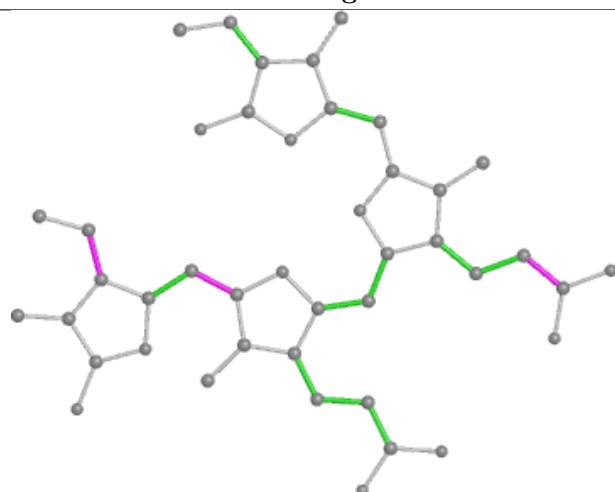
Ligand PEB cM 202



Bond lengths



Bond angles

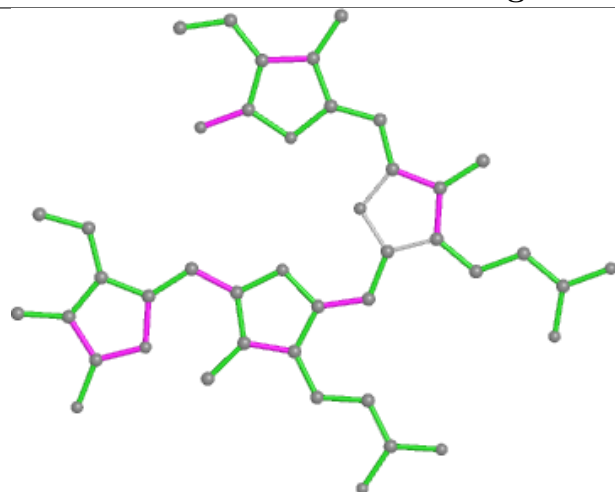


Torsions

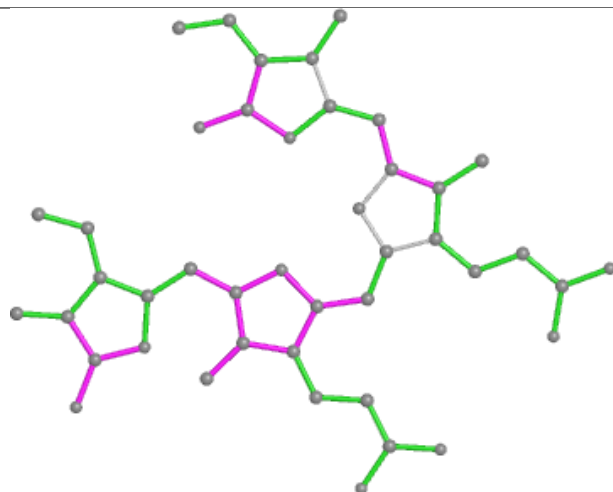


Rings

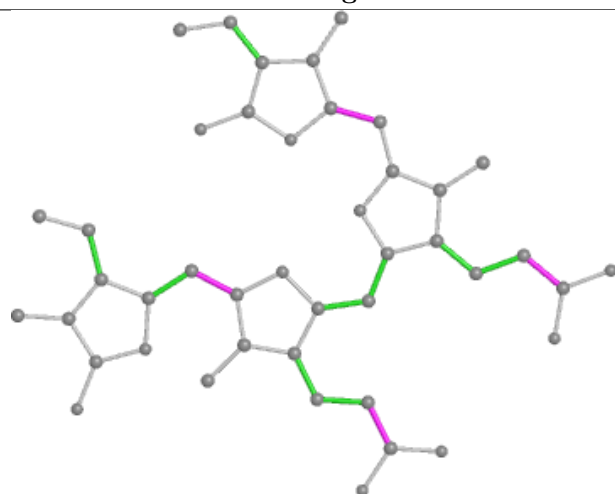
Ligand PEB O9 202



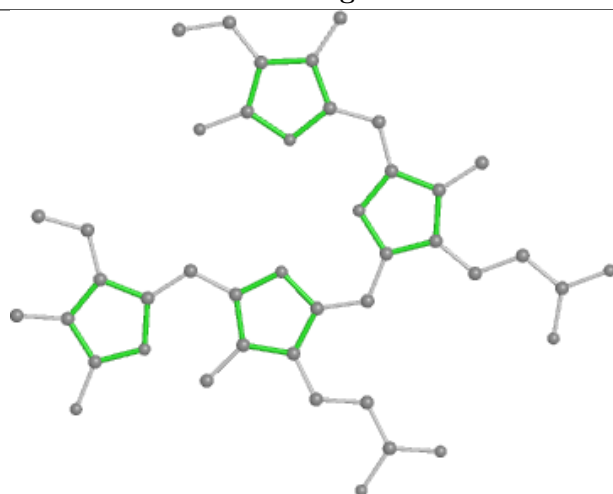
Bond lengths



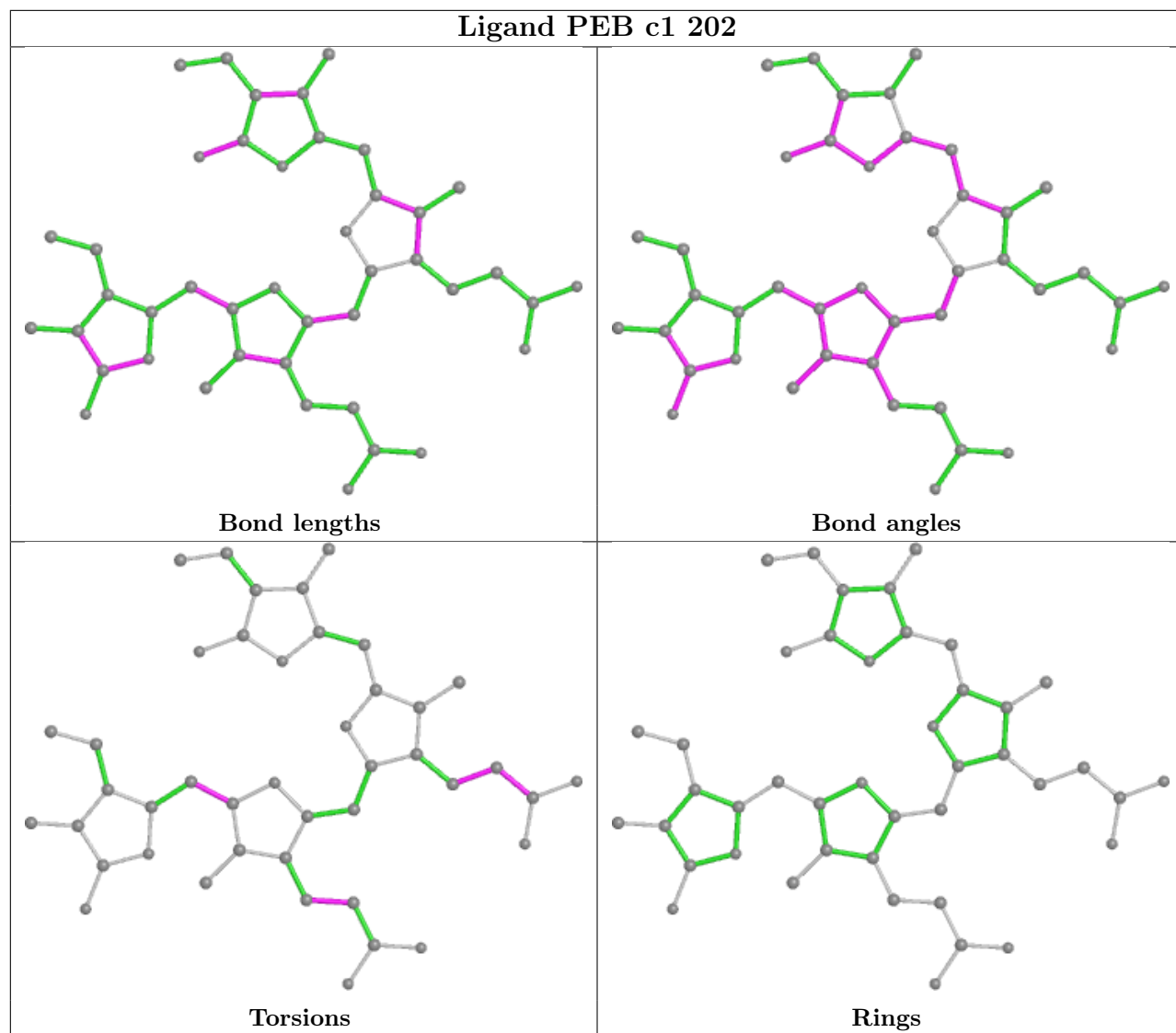
Bond angles

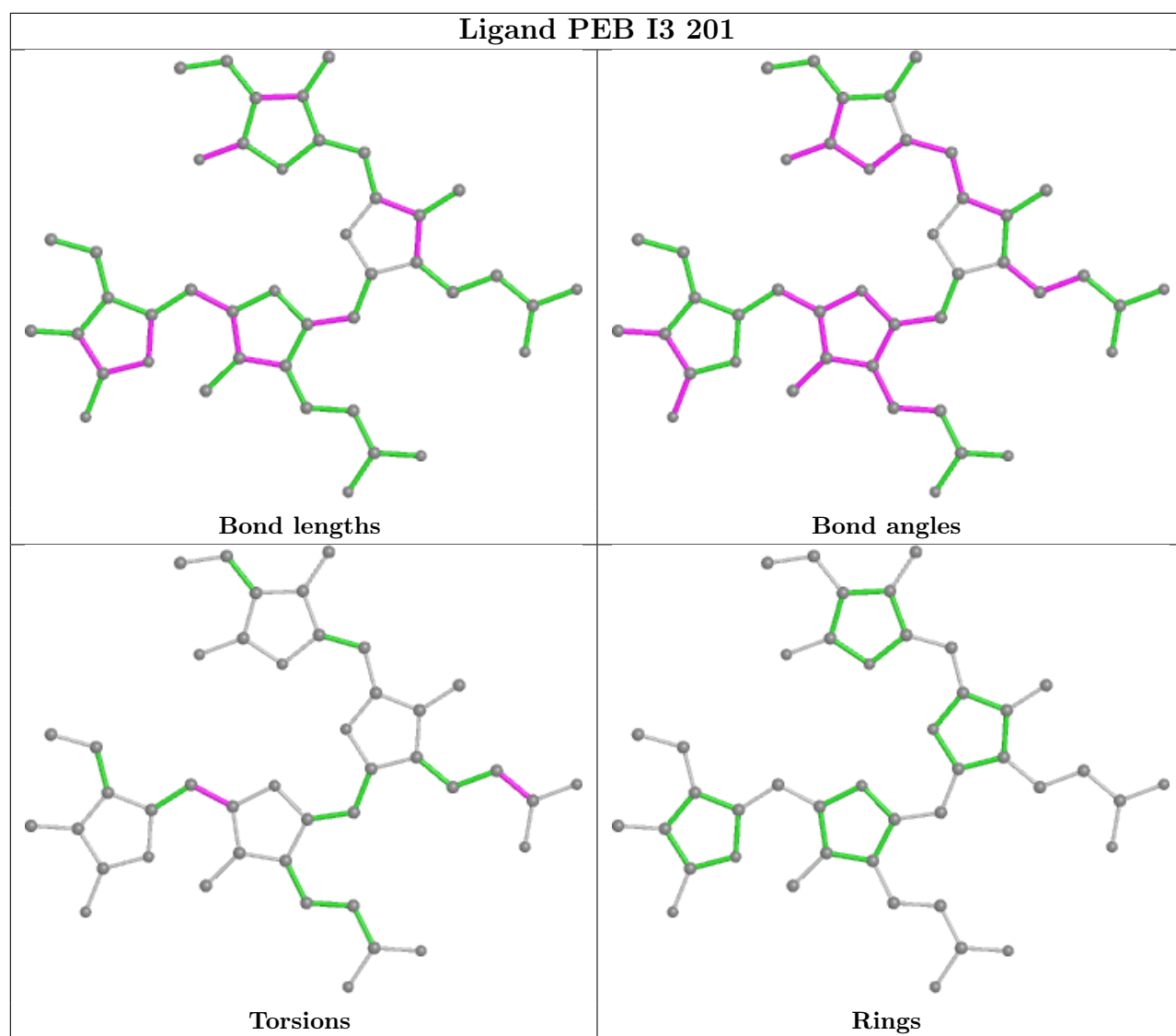


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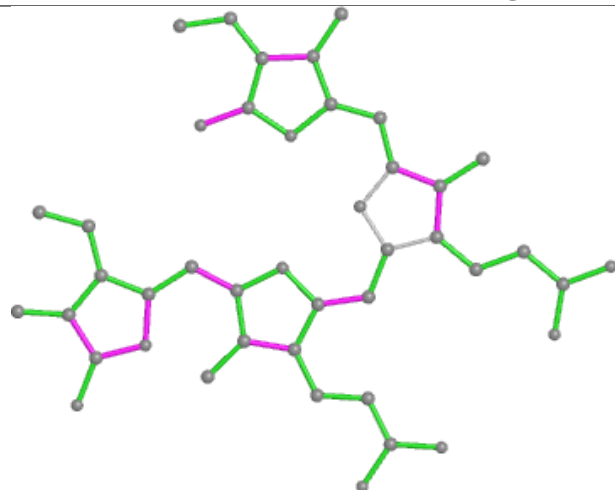


Rings

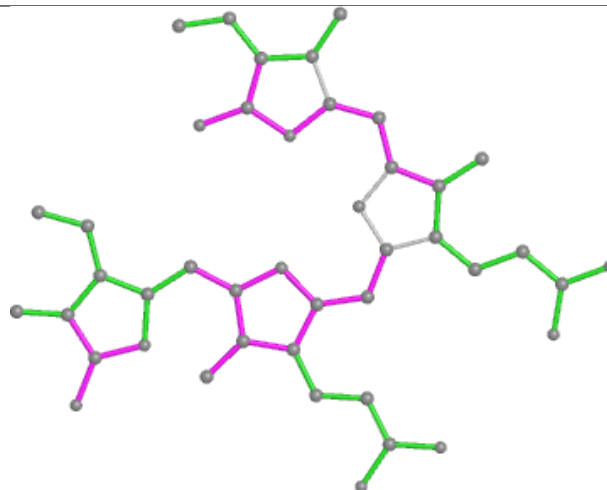




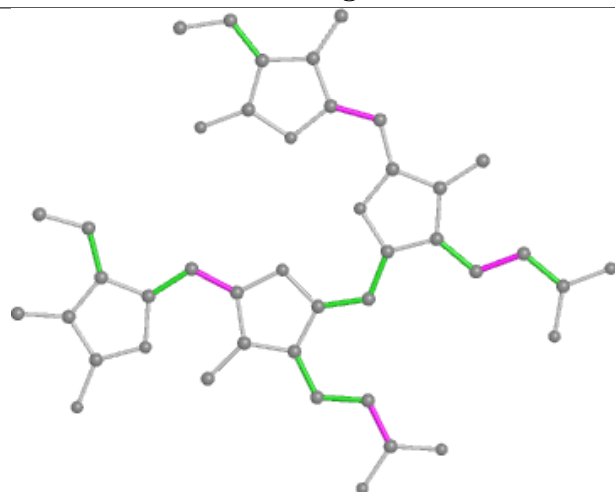
Ligand PEB GE 201



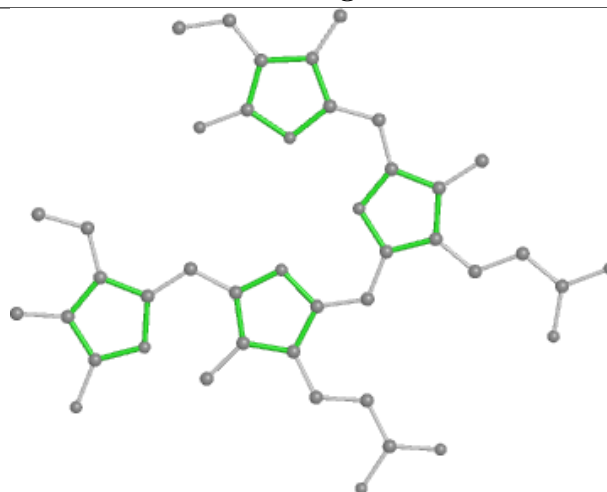
Bond lengths



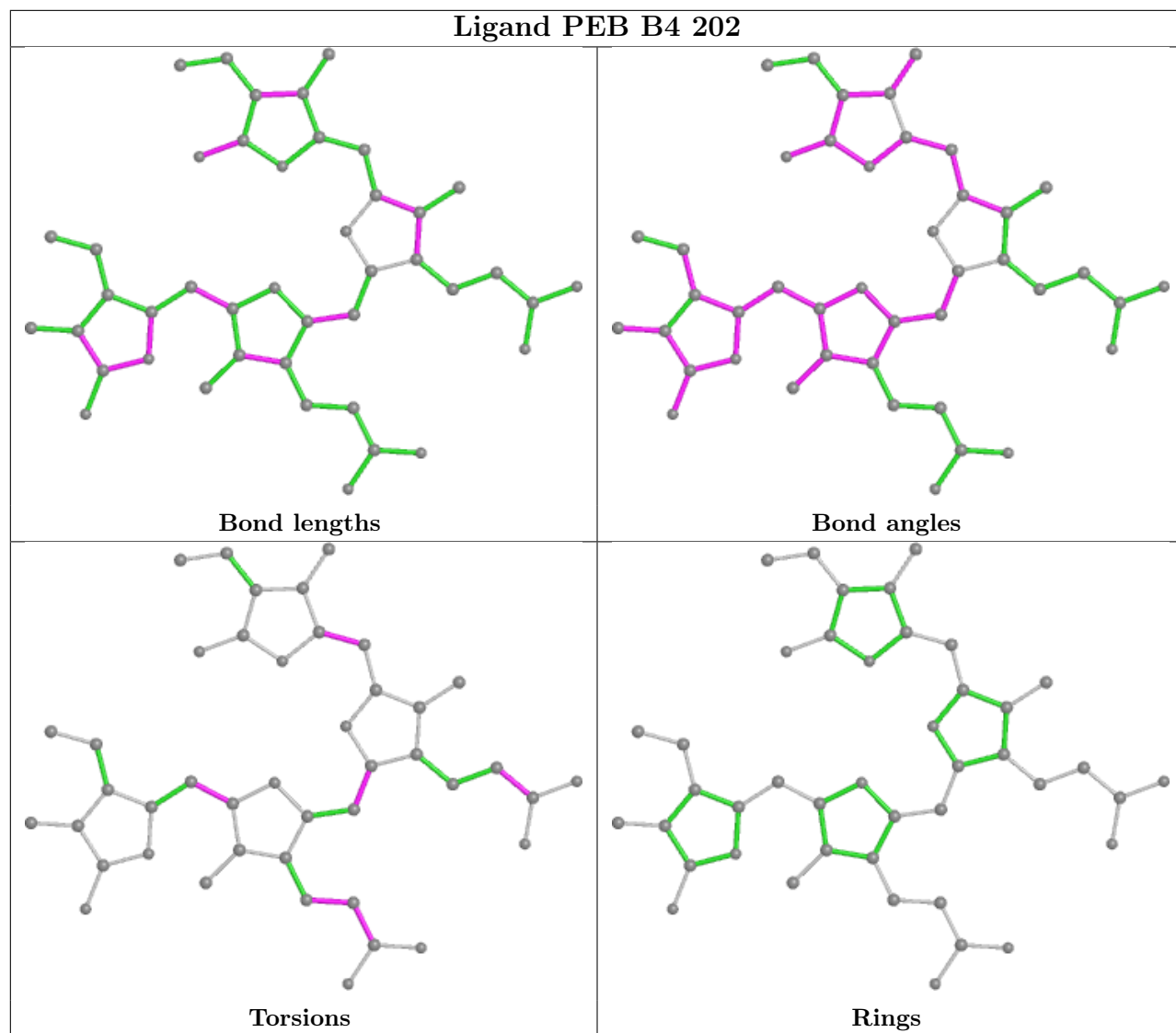
Bond angles



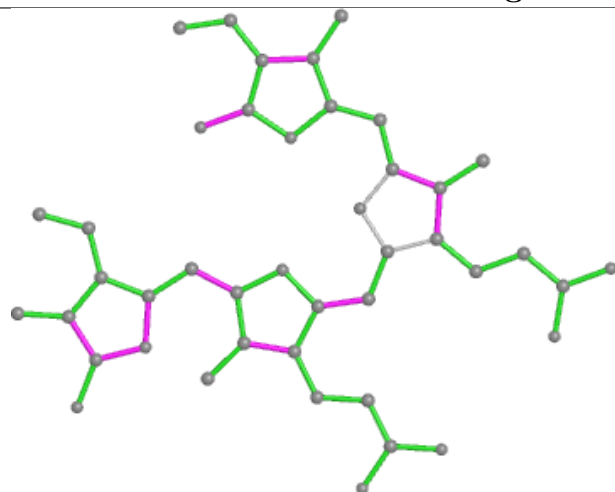
Torsions



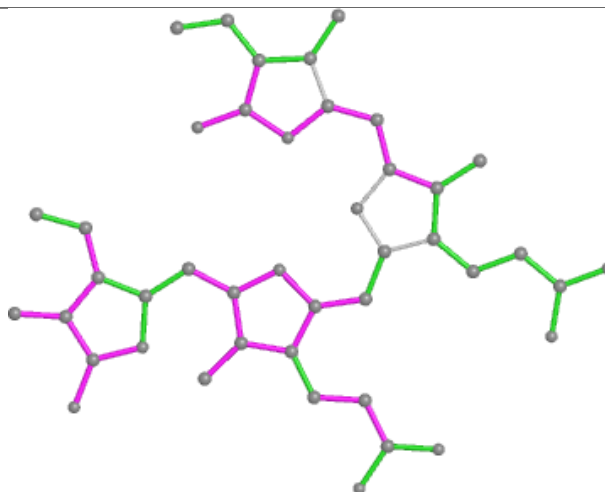
Rings



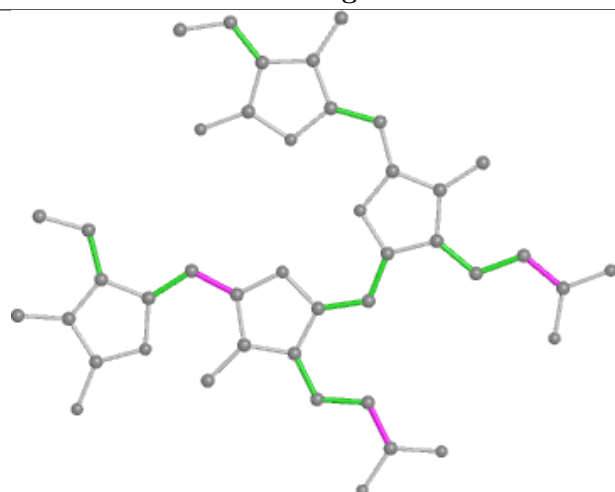
Ligand PEB OF 201



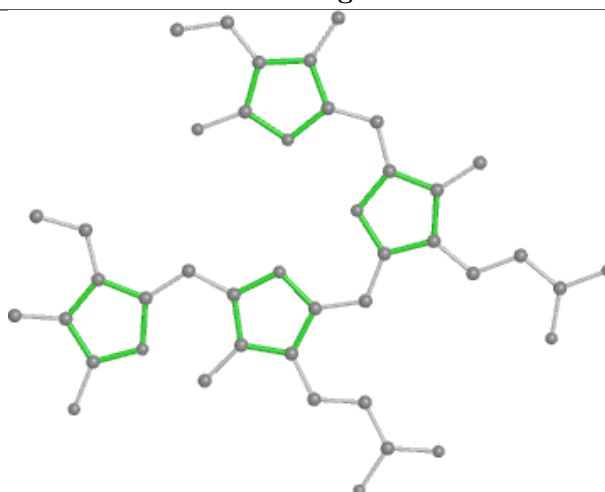
Bond lengths



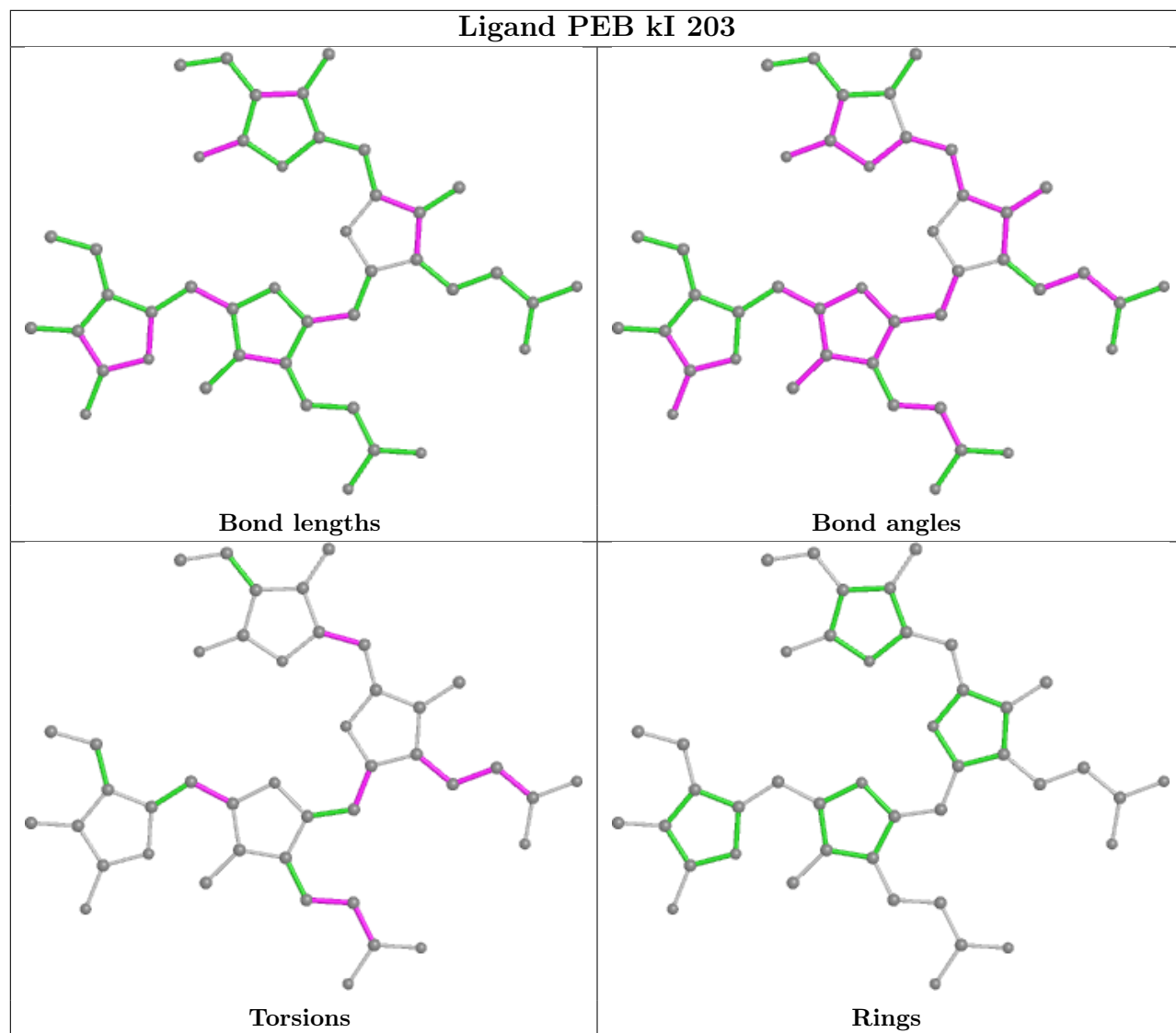
Bond angles



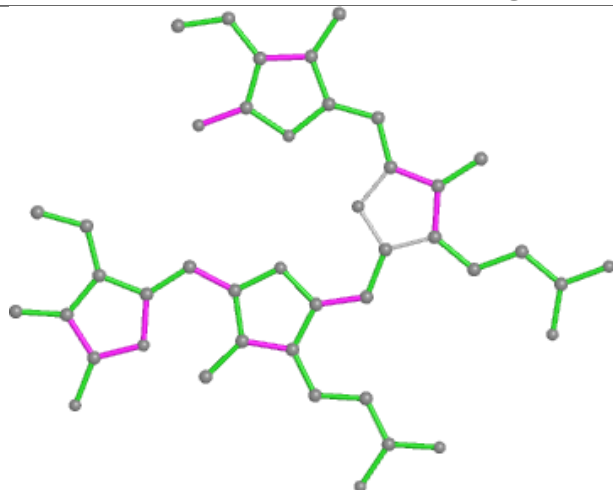
Torsions



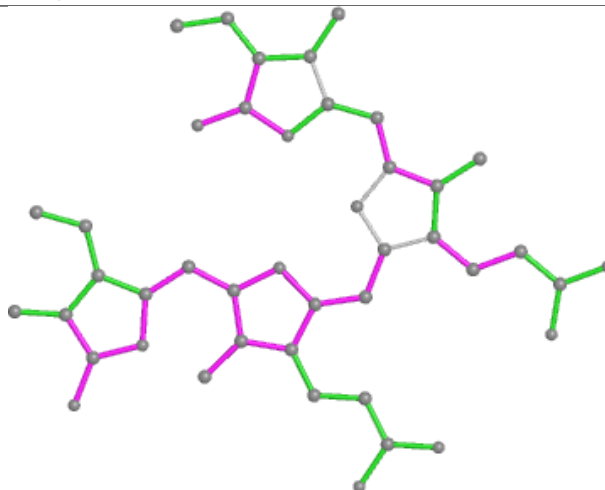
Rings



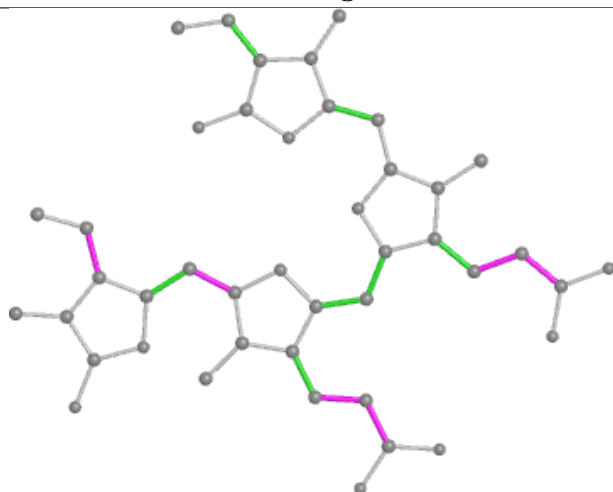
Ligand PEB Q1 202



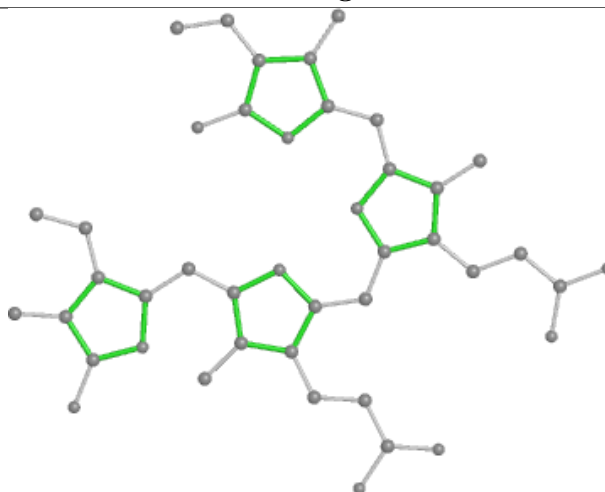
Bond lengths



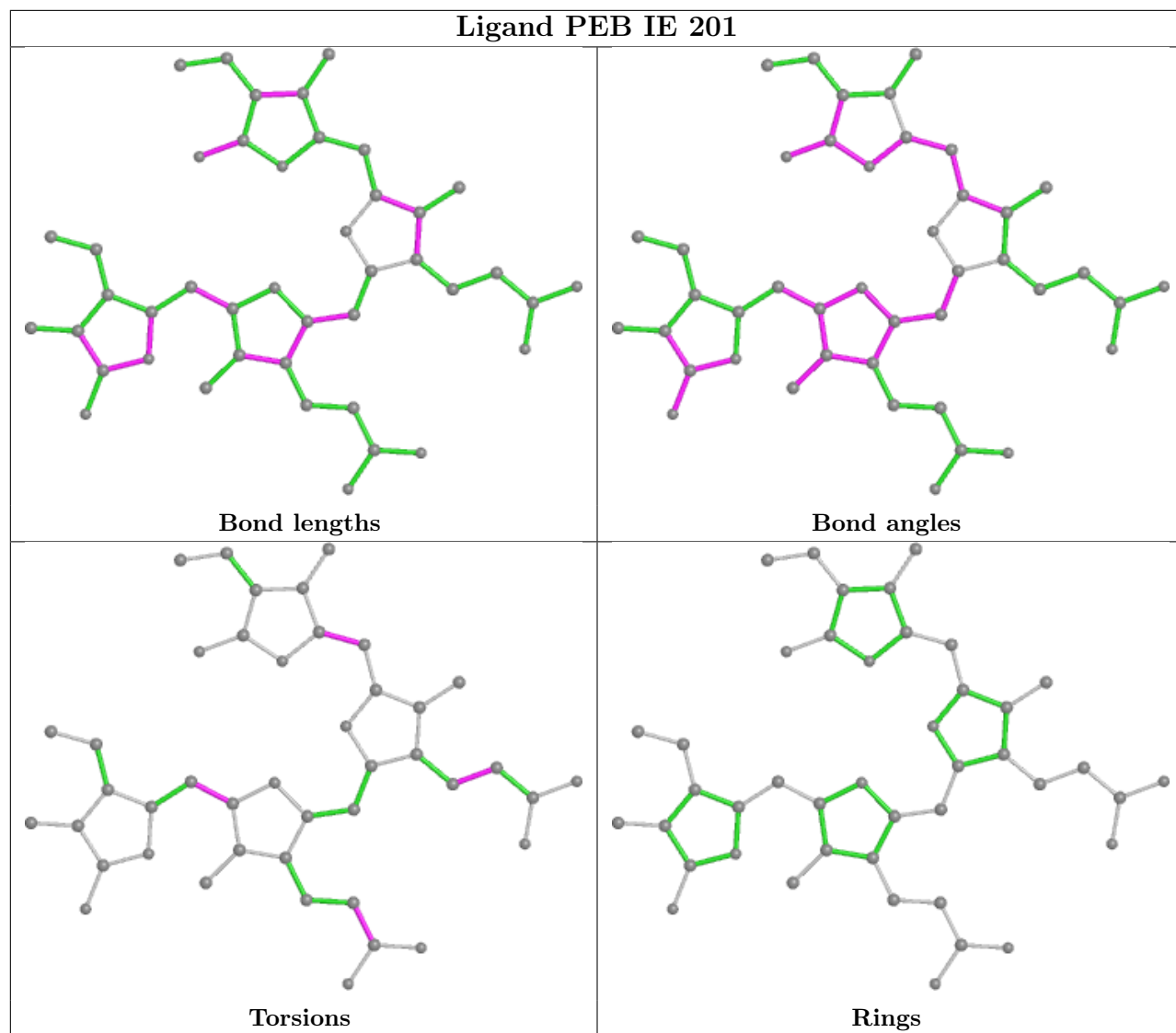
Bond angles

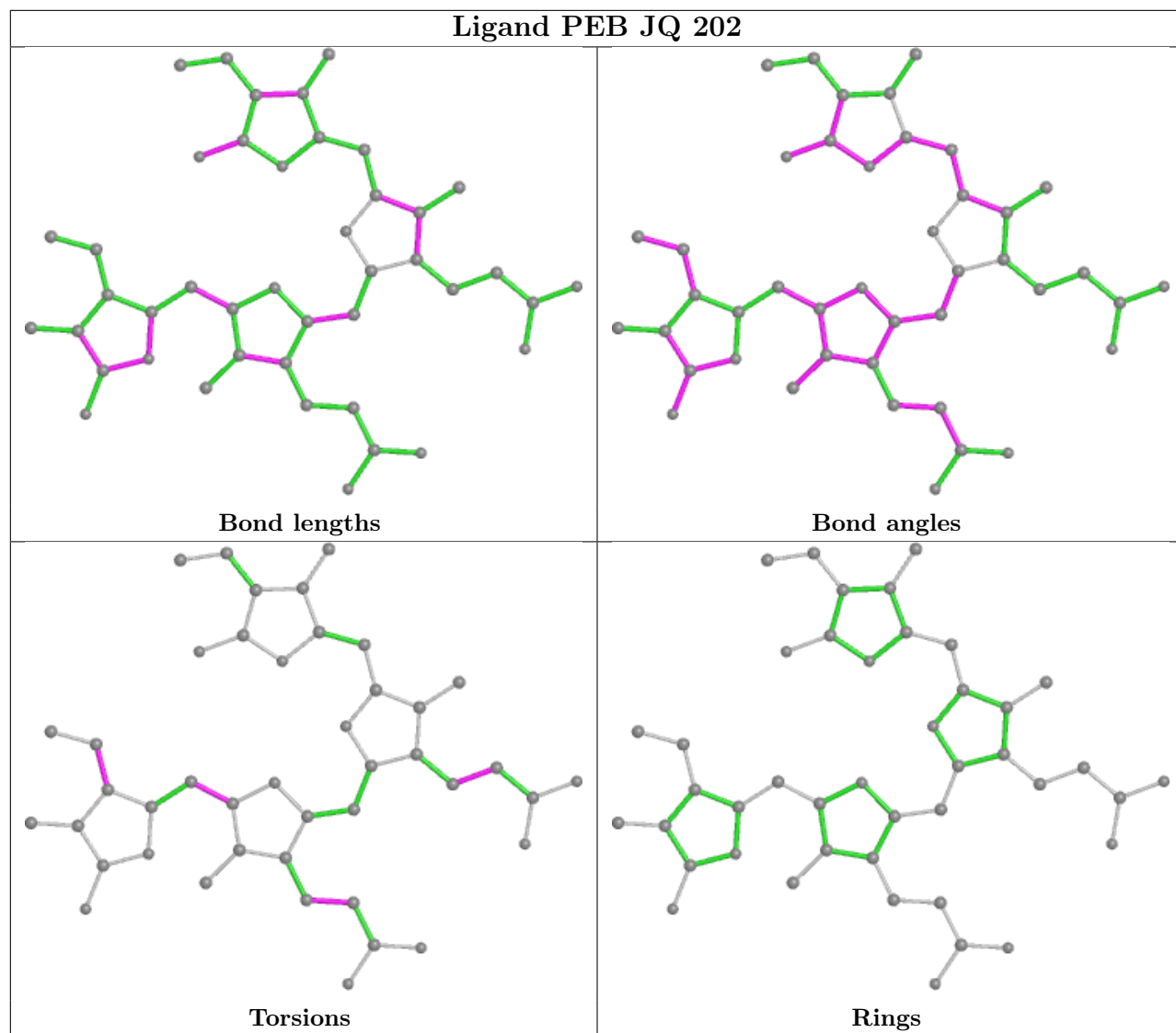


Torsions

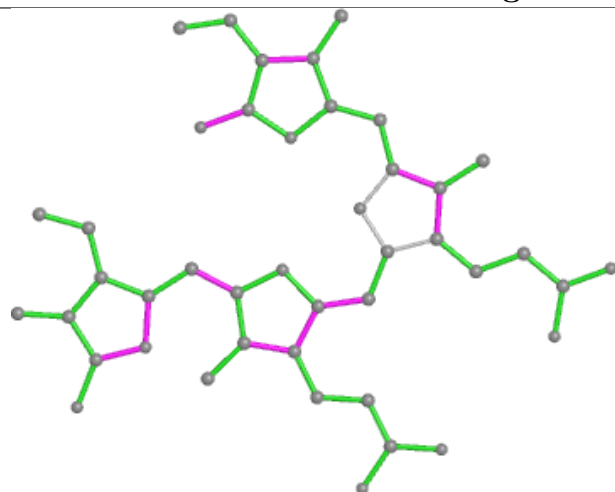


Rings

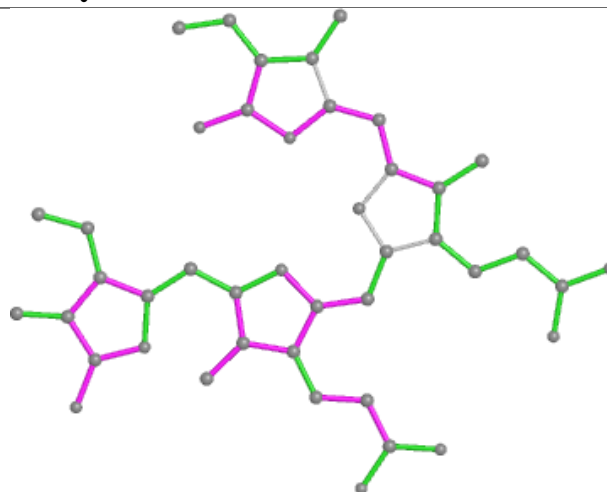




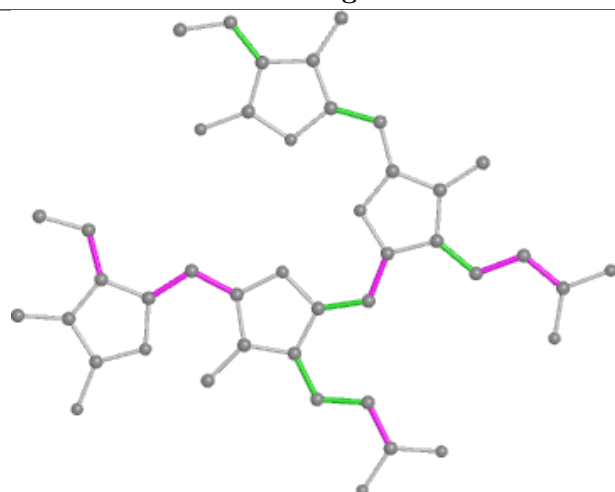
Ligand PEB KQ 202



Bond lengths



Bond angles

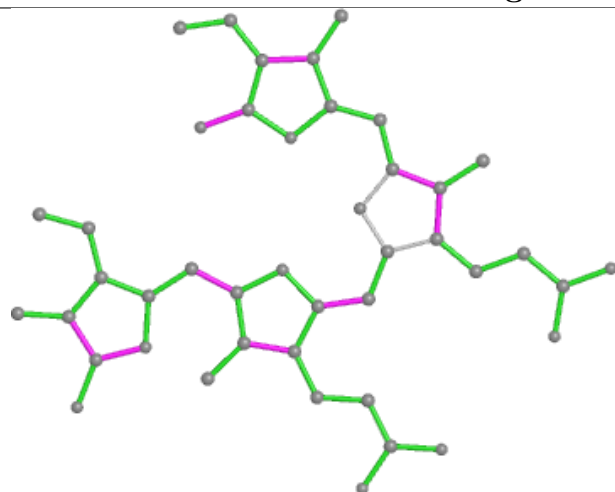


Torsions

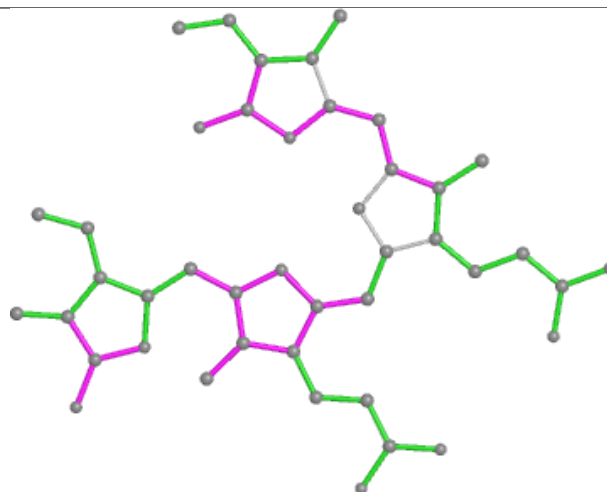


Rings

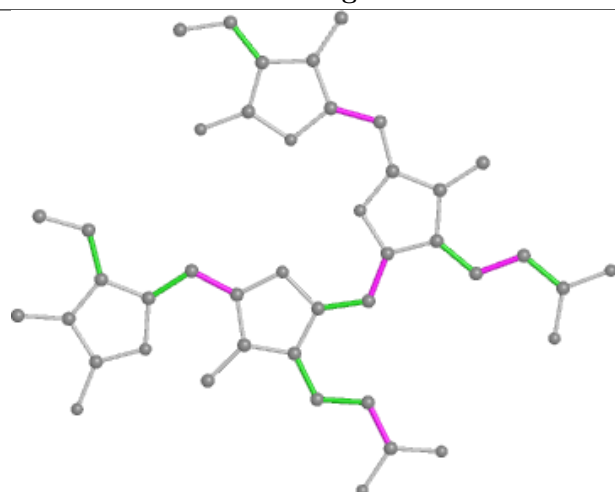
Ligand PEB BE 203



Bond lengths



Bond angles

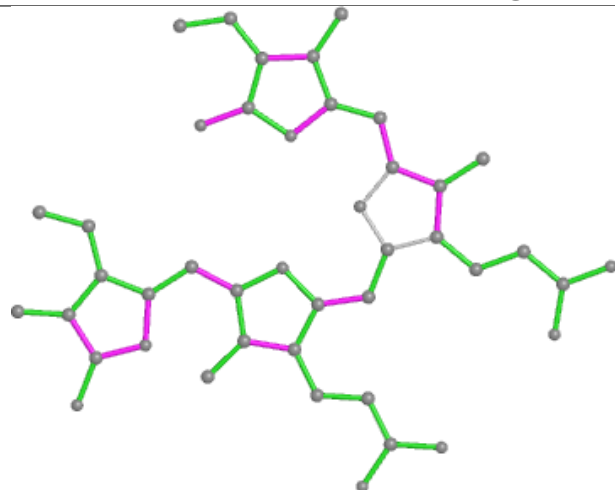


Torsions

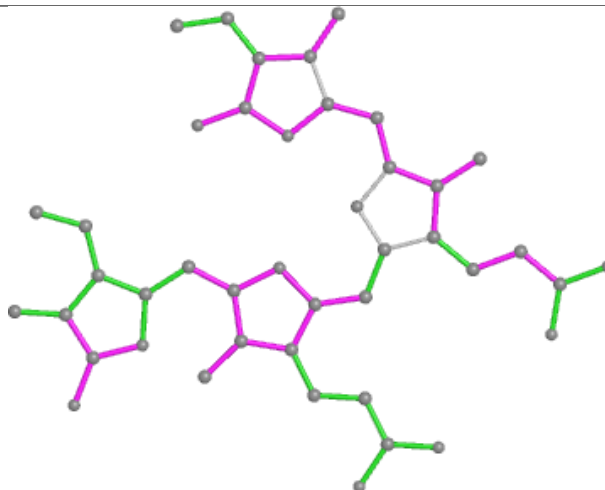


Rings

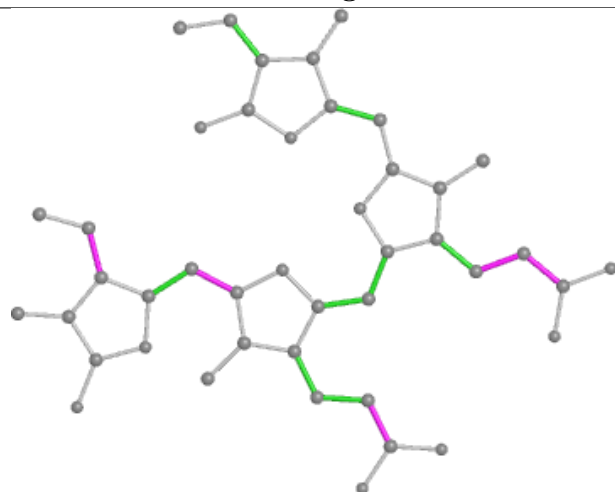
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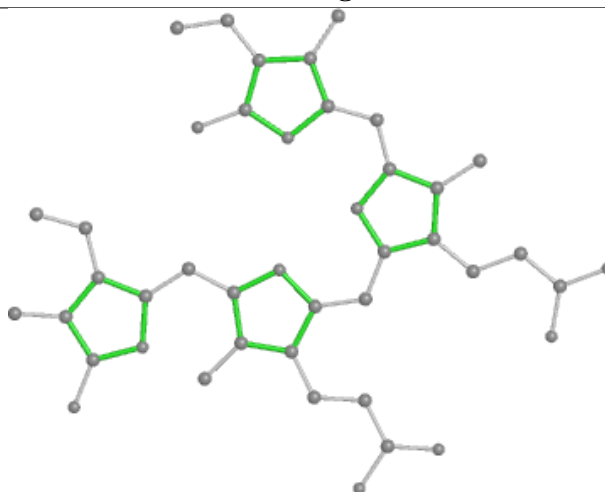
Bond lengths



Bond angles

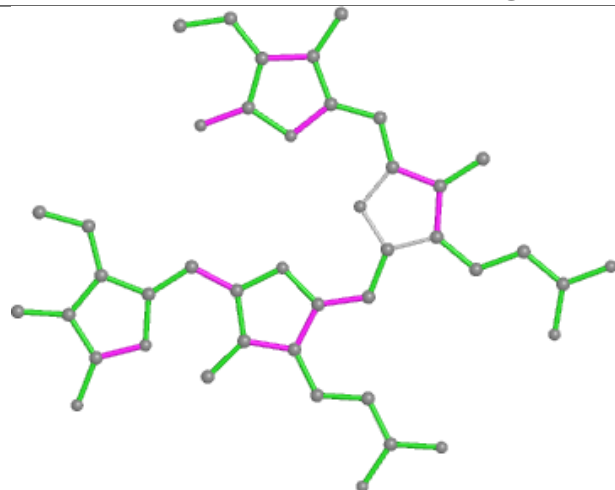


Torsions

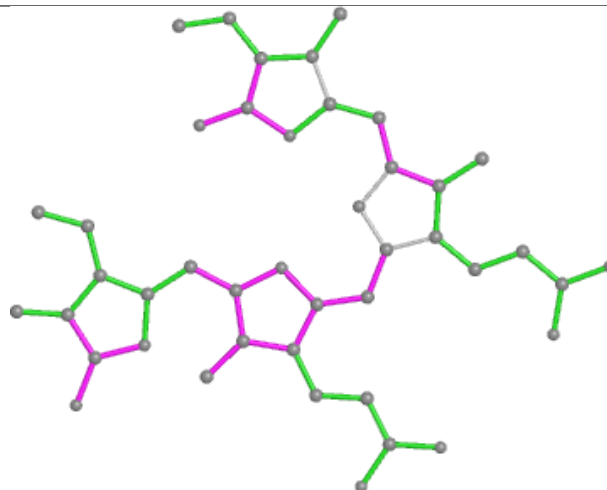


Rings

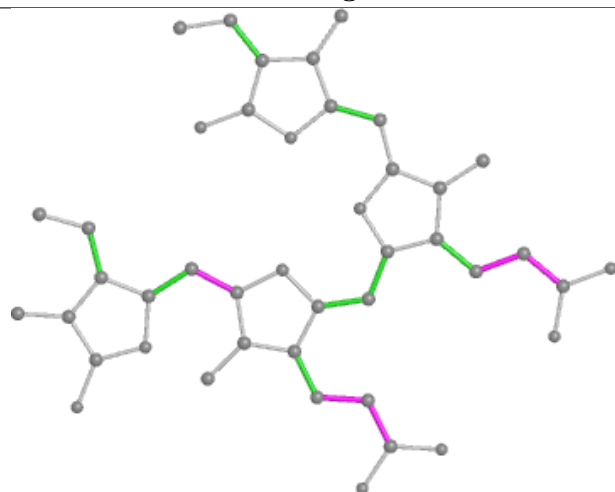
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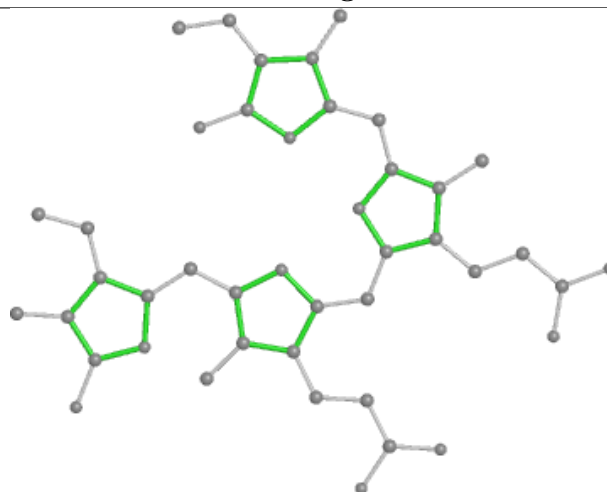
Bond lengths



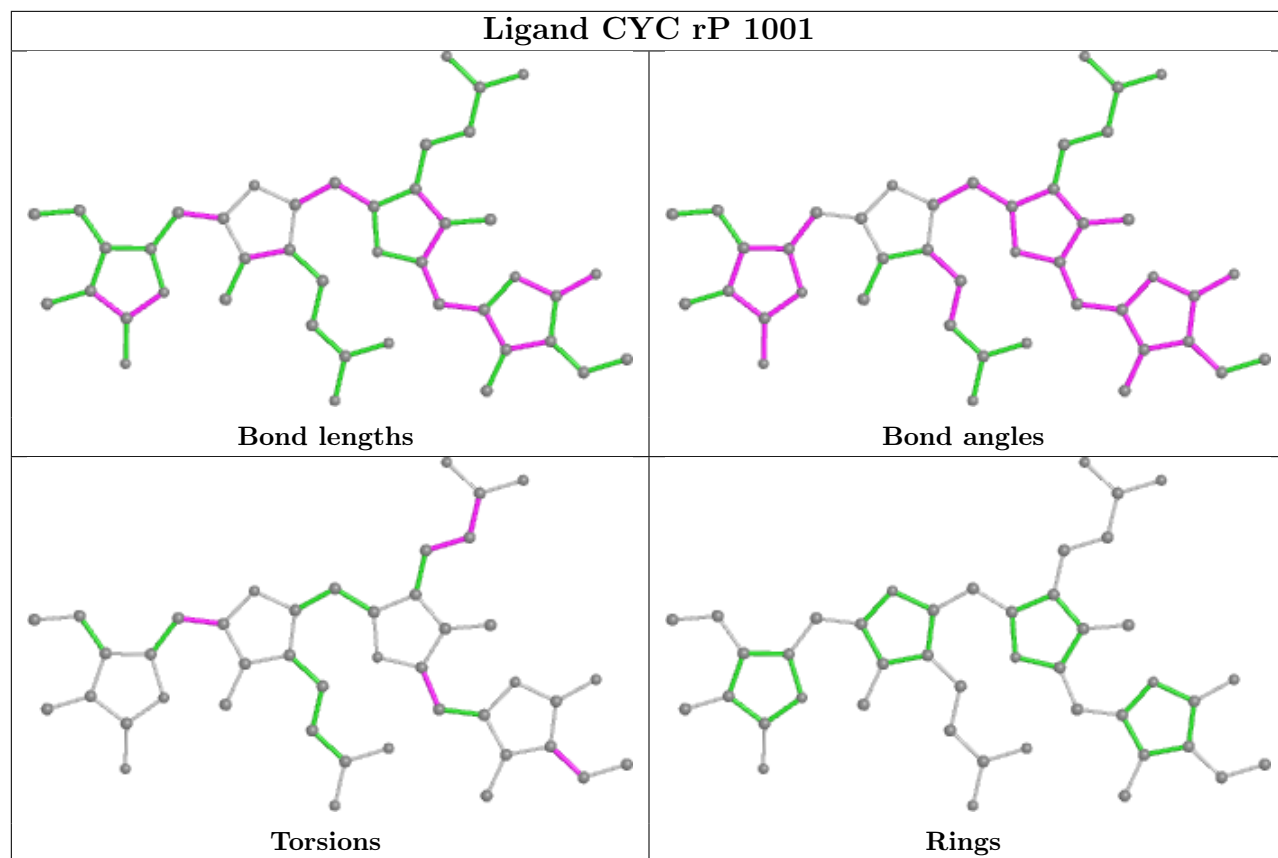
Bond angles

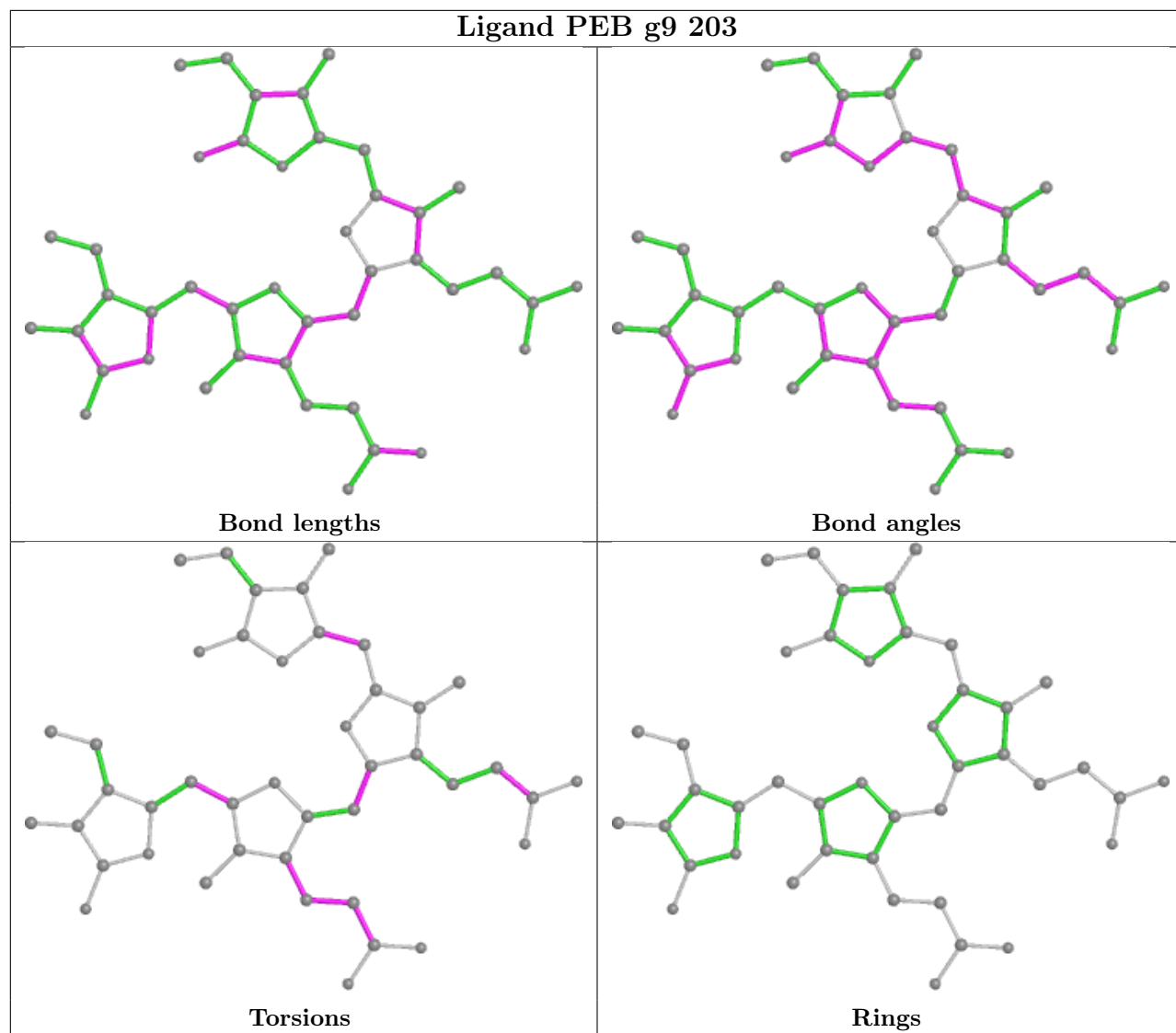


Torsions

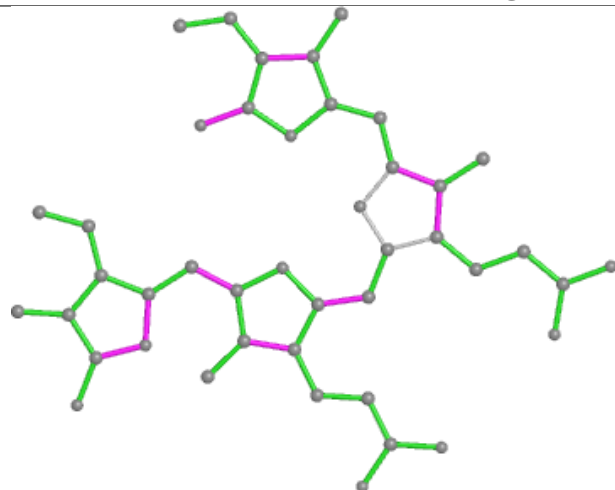


Rings

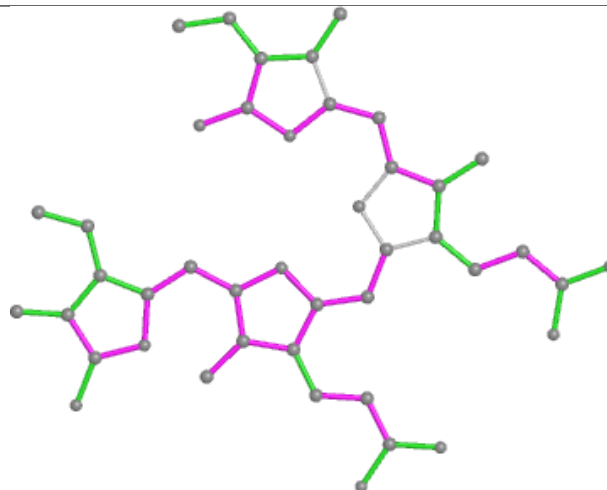




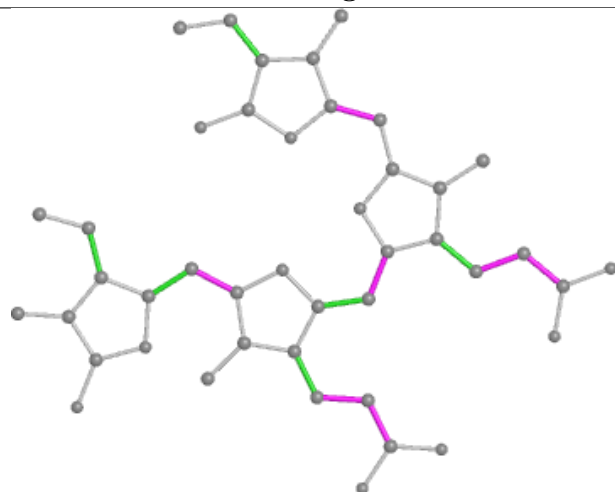
Ligand PEB BG 203



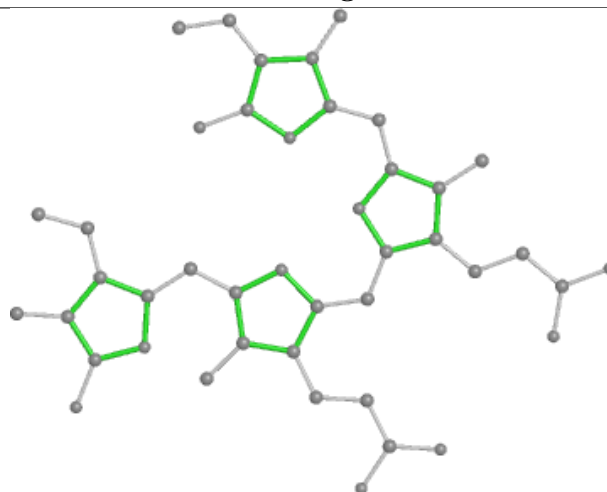
Bond lengths



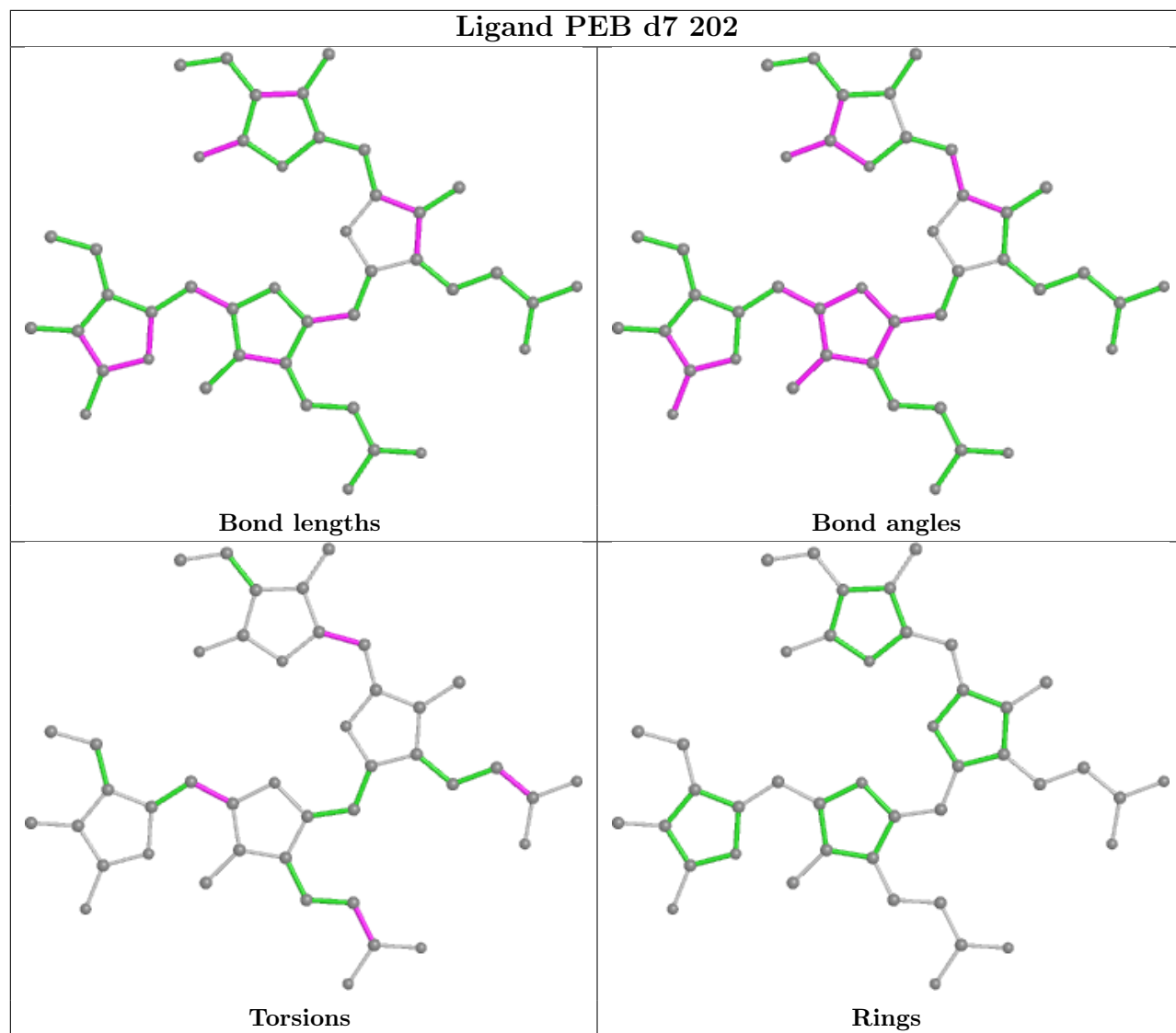
Bond angles

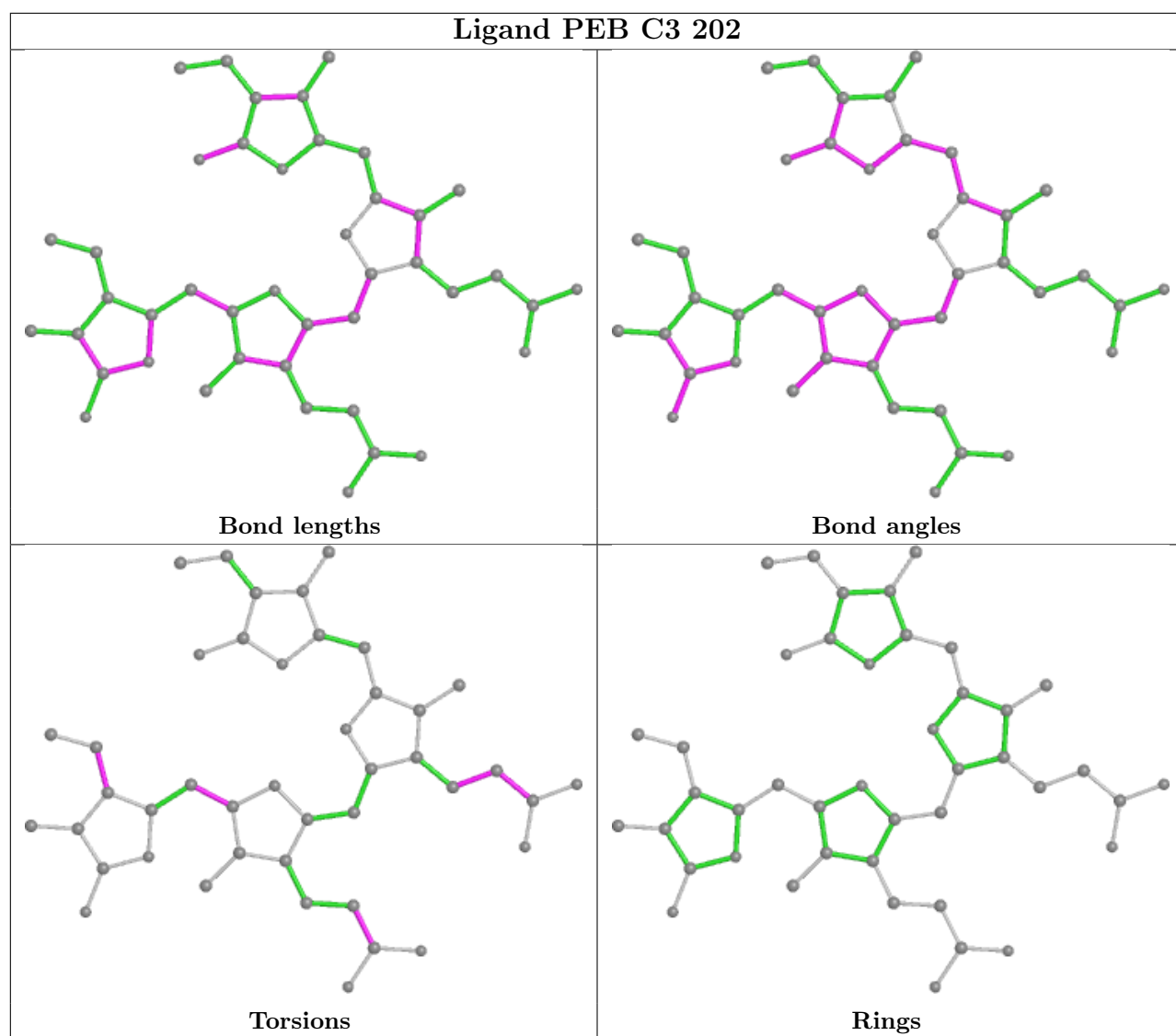


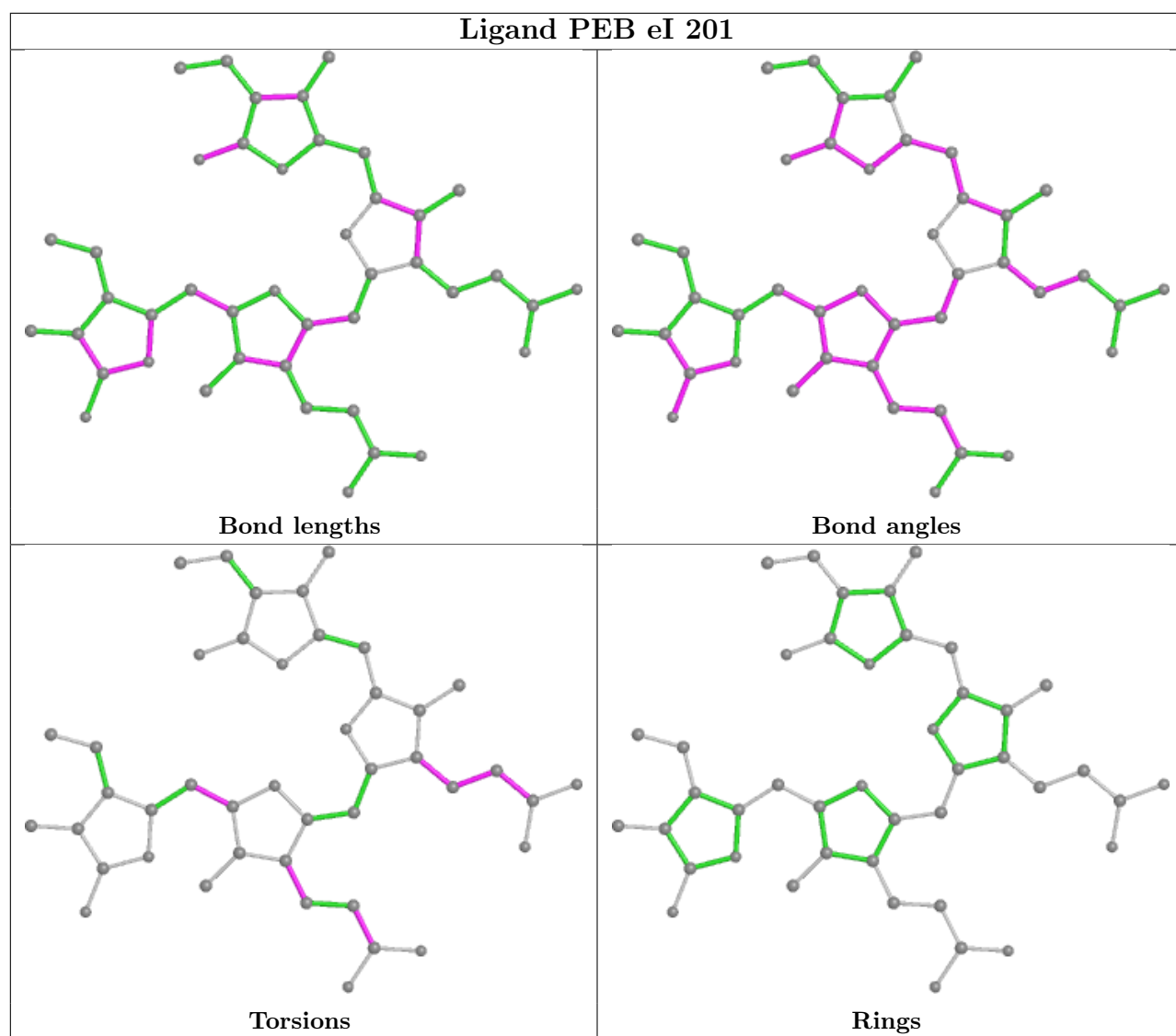
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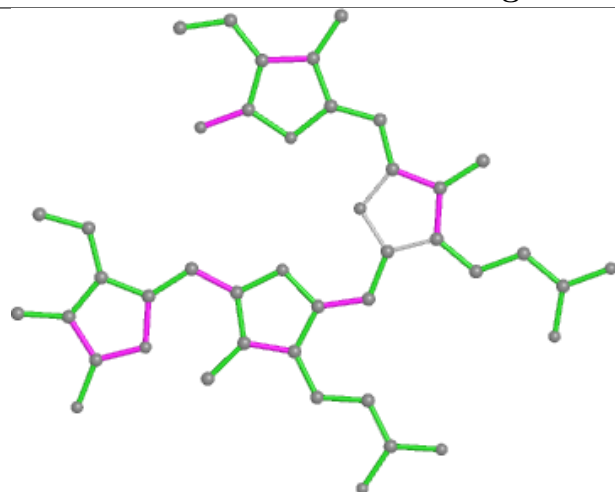
Rings



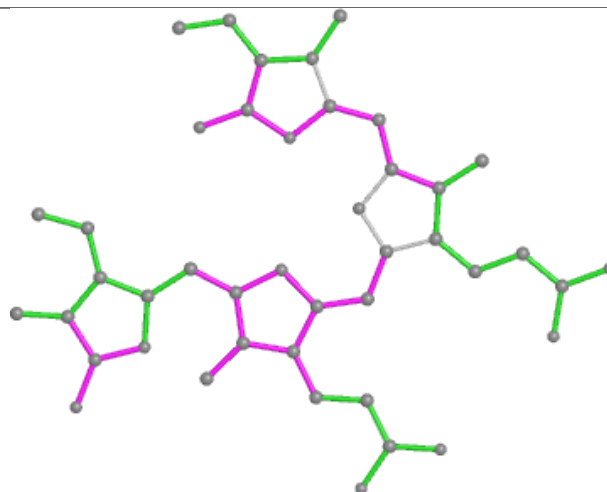




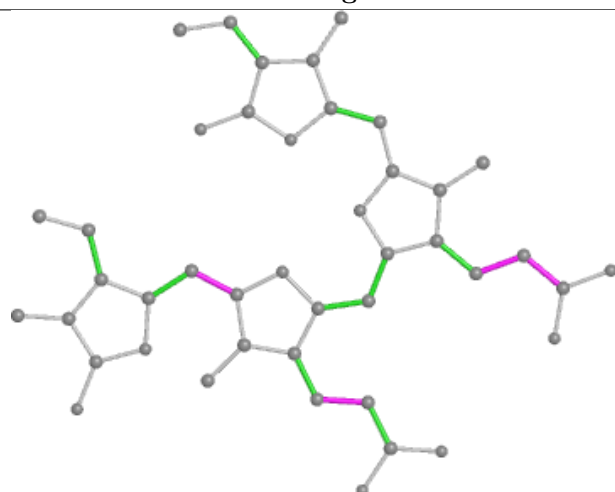
Ligand PEB VK 202



Bond lengths



Bond angles

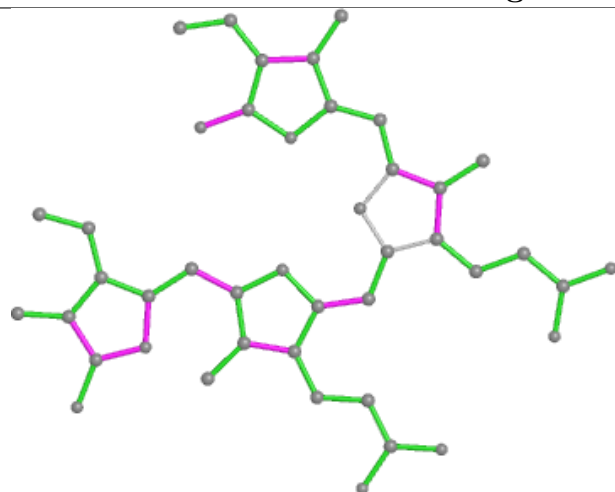


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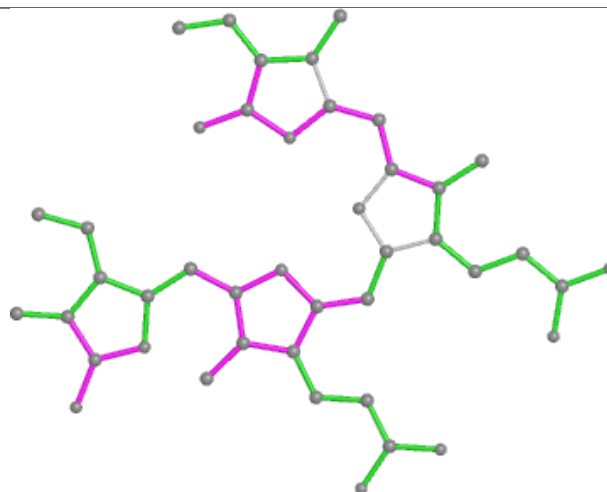


Rings

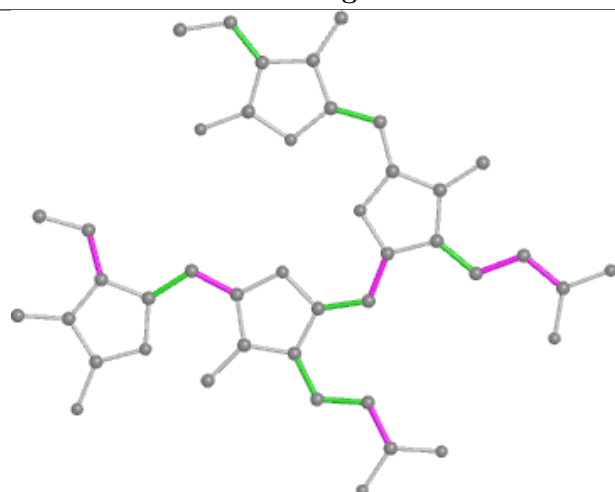
Ligand PEB KJ 202



Bond lengths



Bond angles

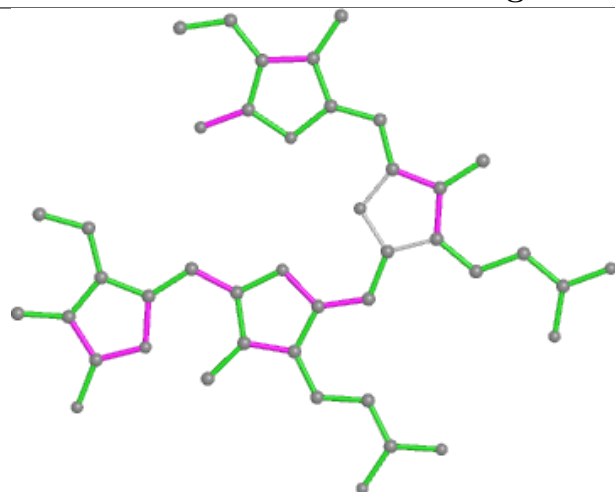


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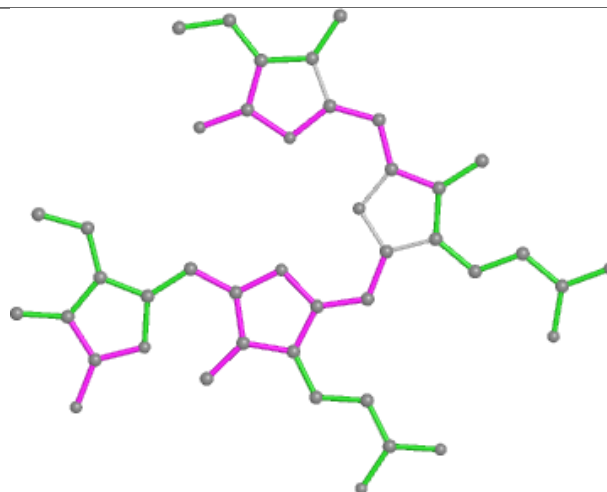


Rings

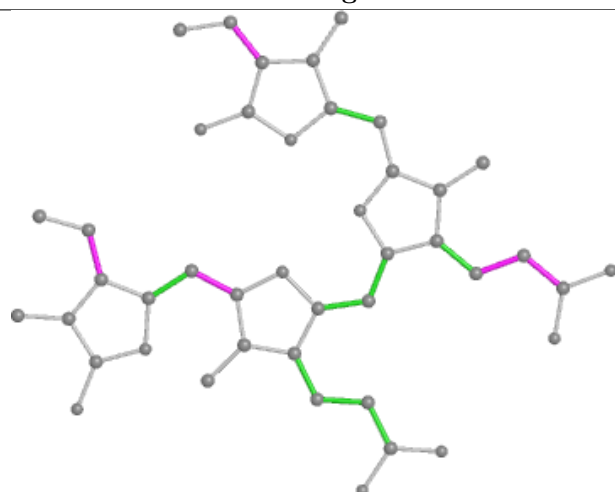
Ligand PEB PL 202



Bond lengths



Bond angles

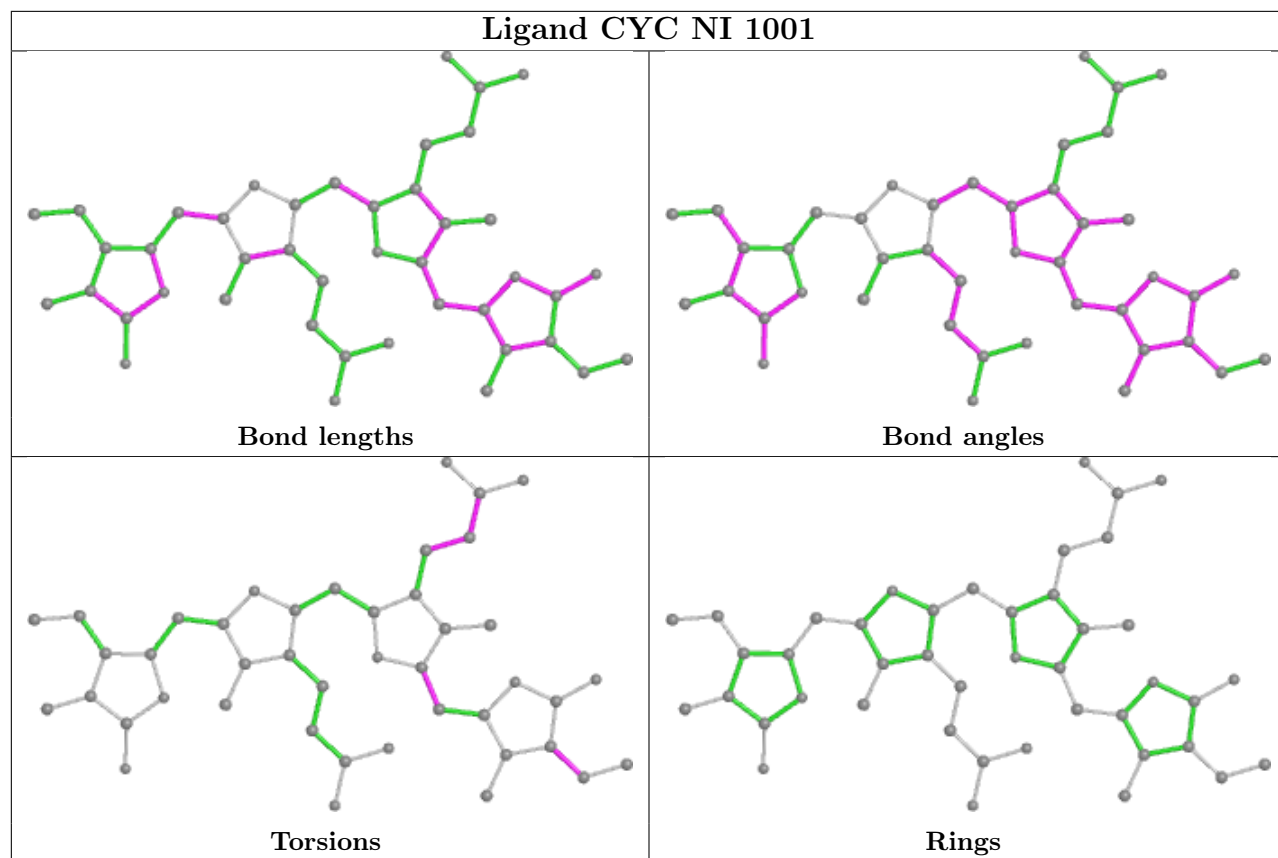


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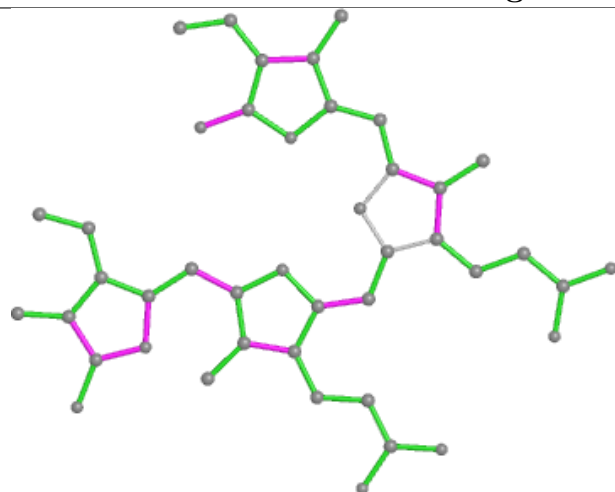


Rings

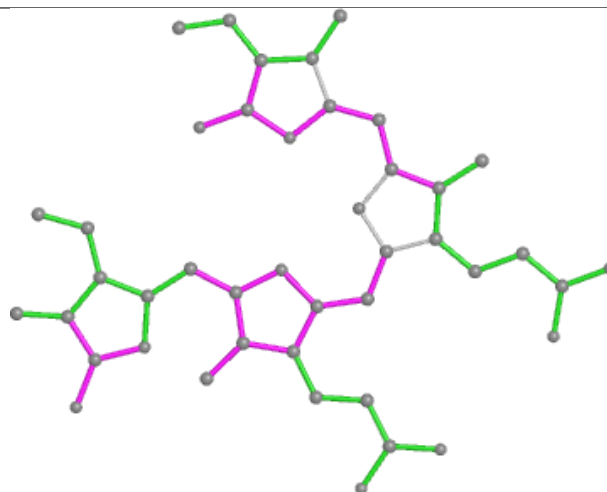
Ligand CYC NI 1001



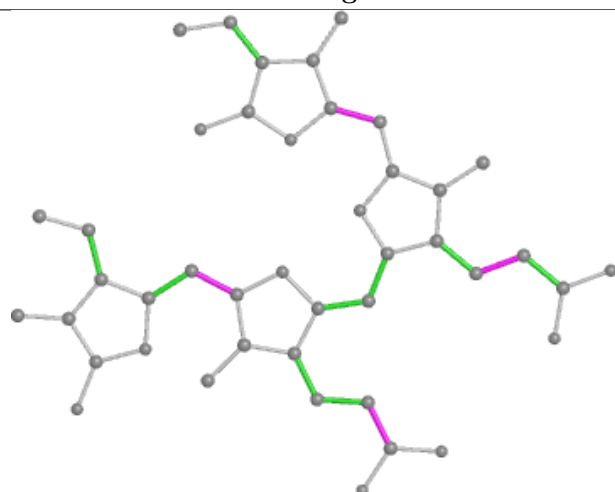
Ligand PEB EE 201



Bond lengths



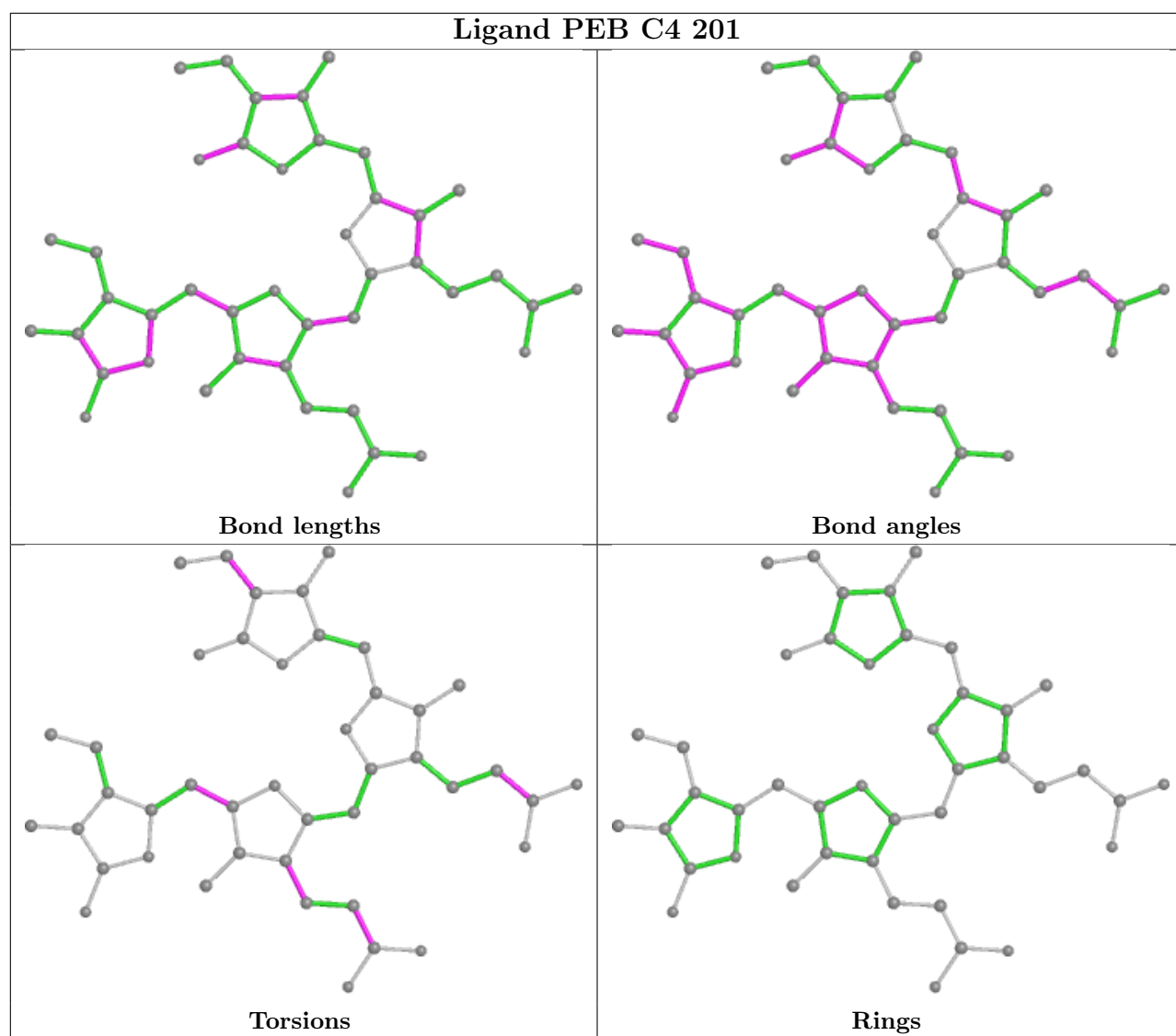
Bond angles



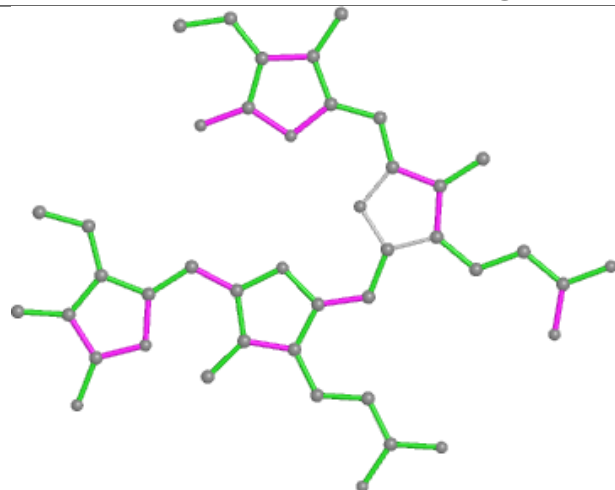
Torsions



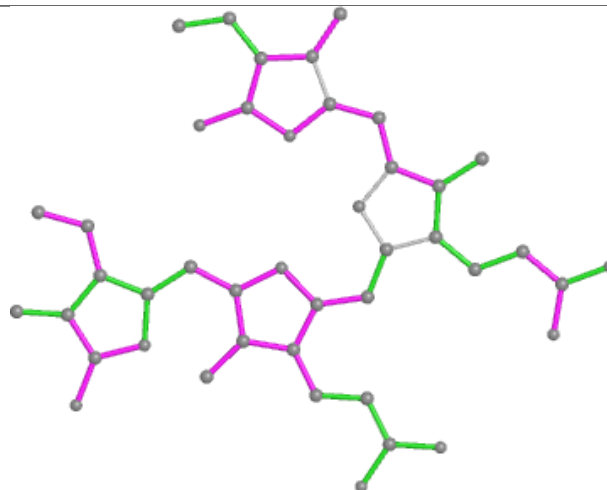
Rings



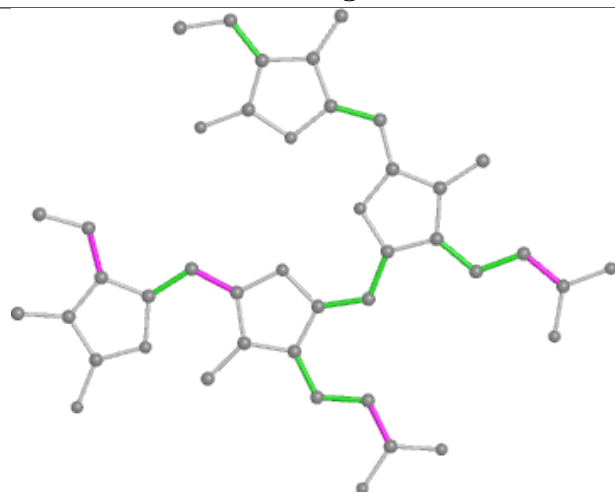
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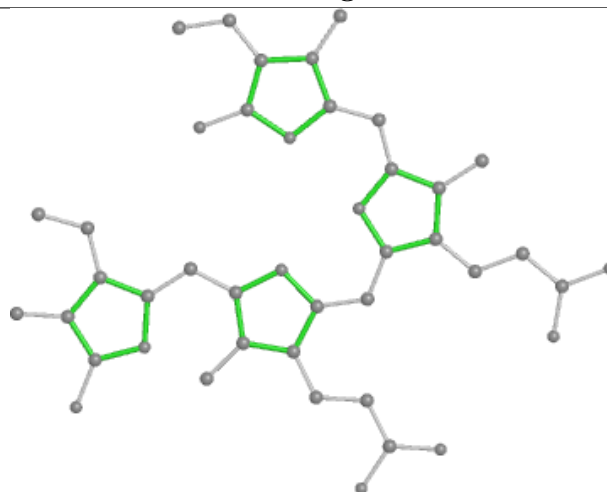
Bond lengths



Bond angles

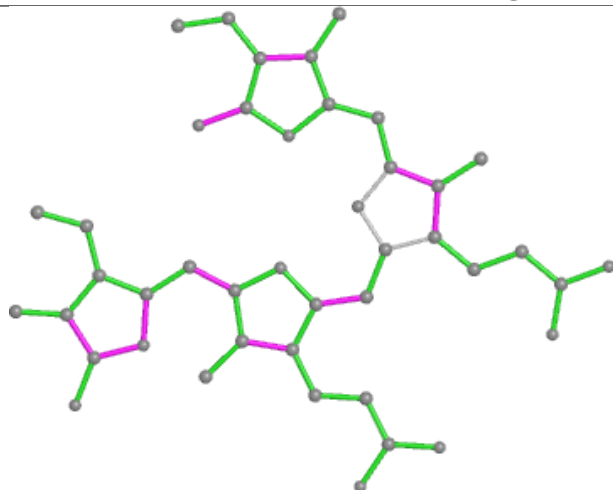


Torsions

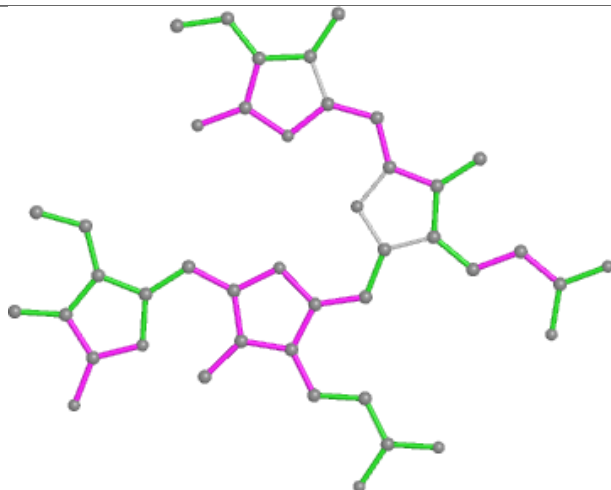


Rings

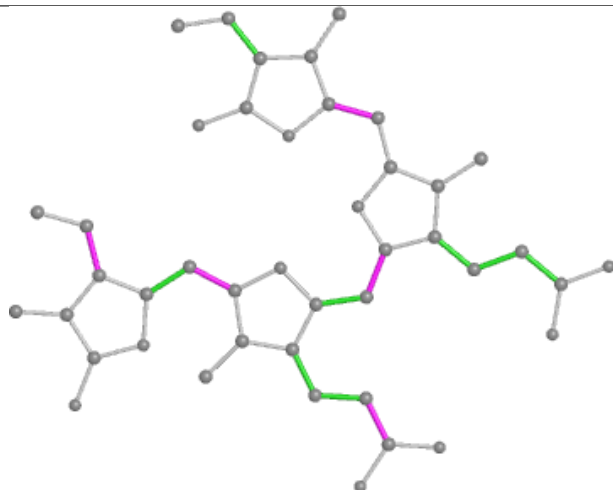
Ligand PEB D3 203



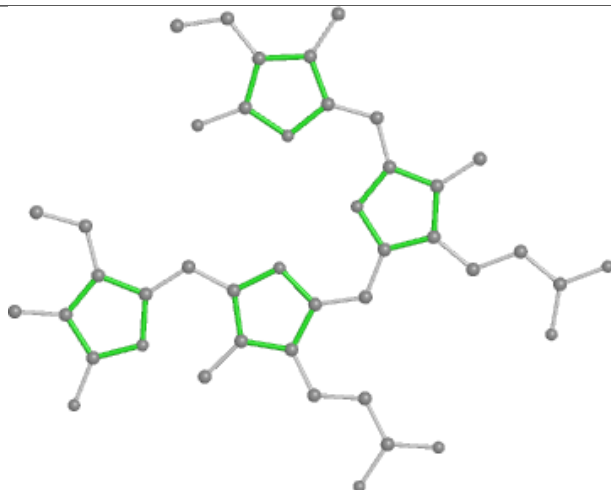
Bond lengths



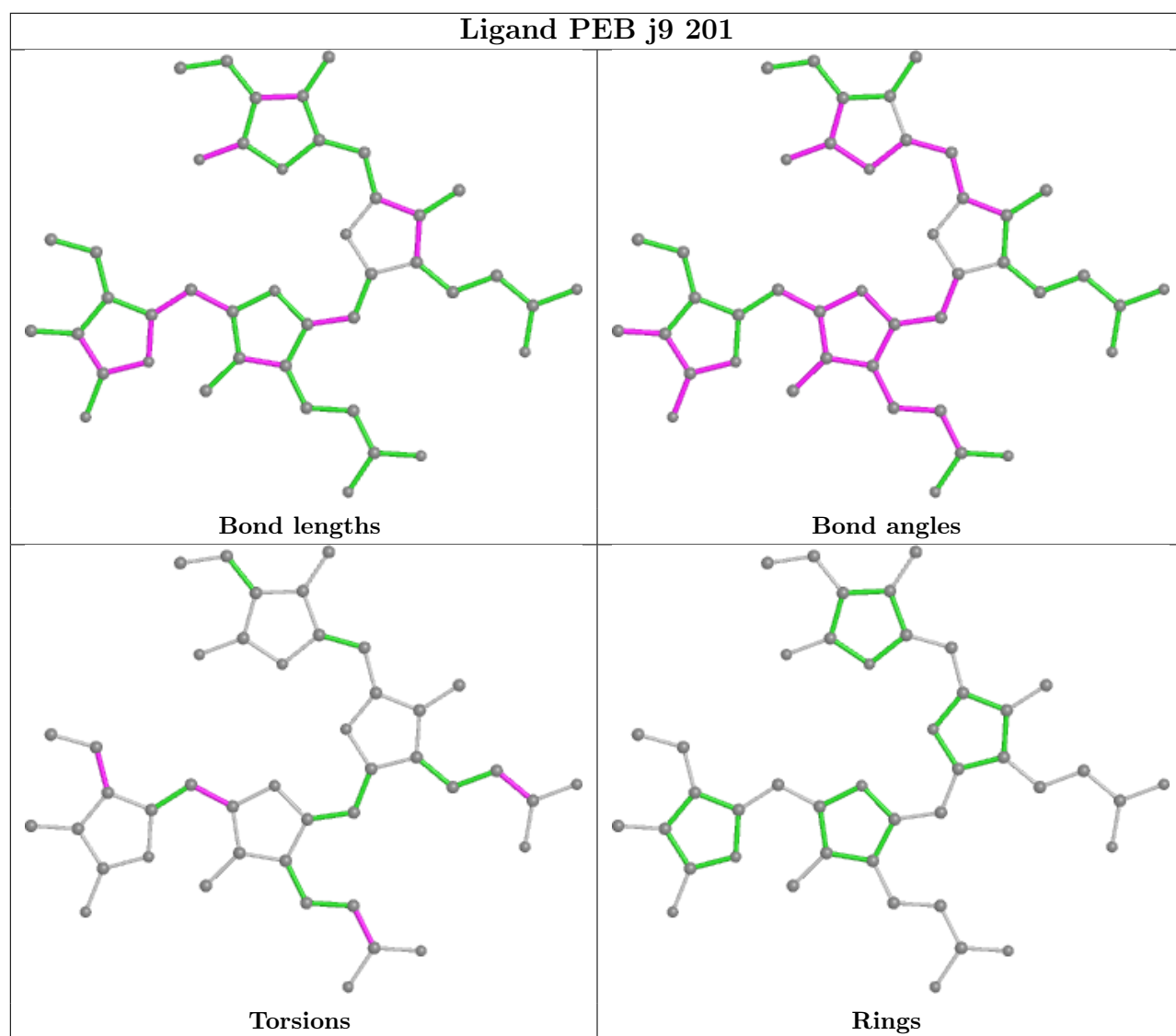
Bond angles

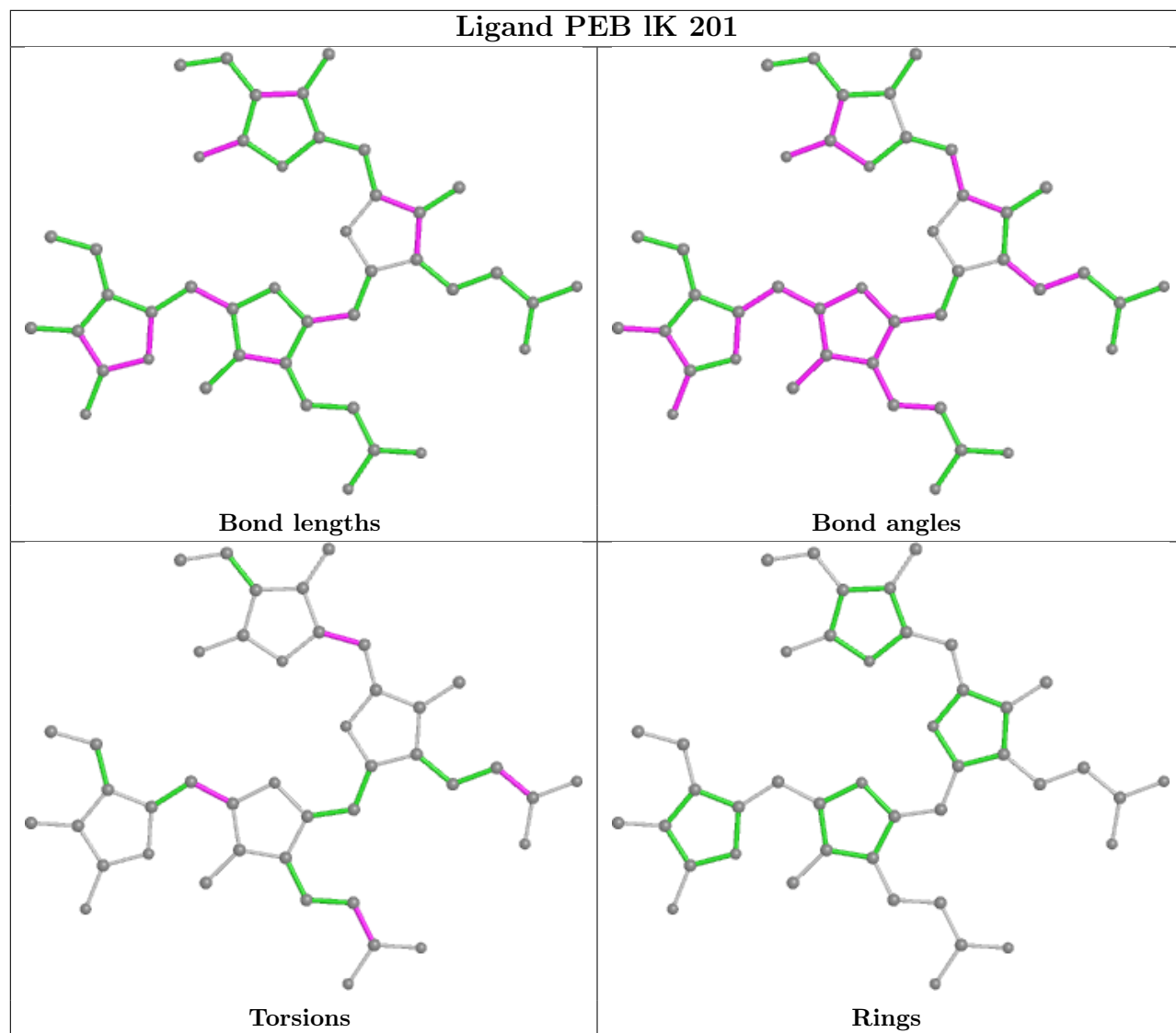


Torsions

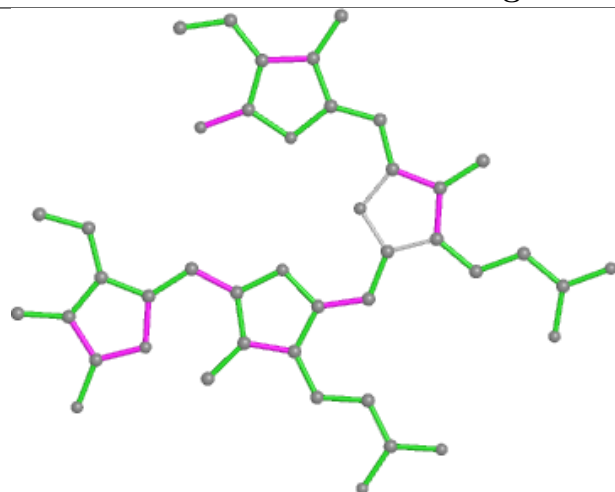


Rings

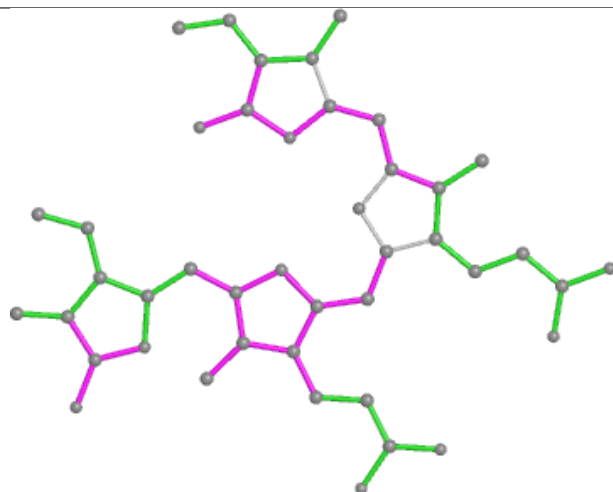




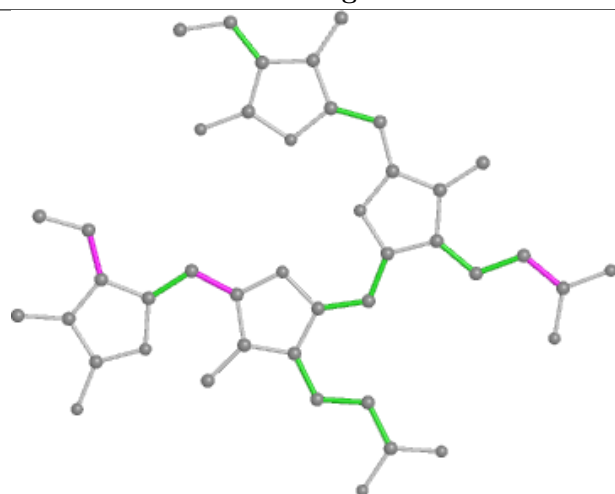
Ligand PEB KB 203



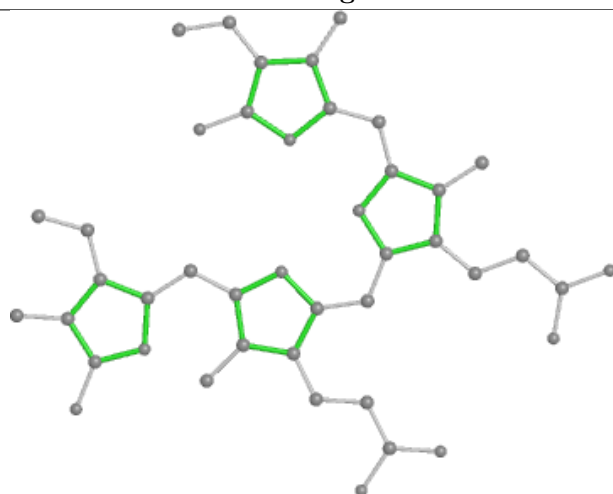
Bond lengths



Bond angles

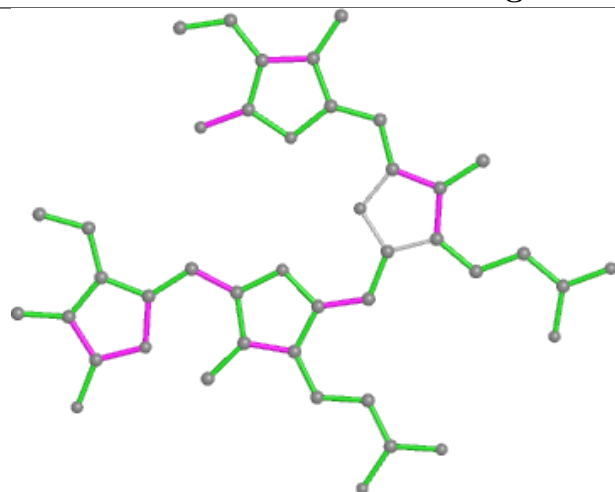


Torsions

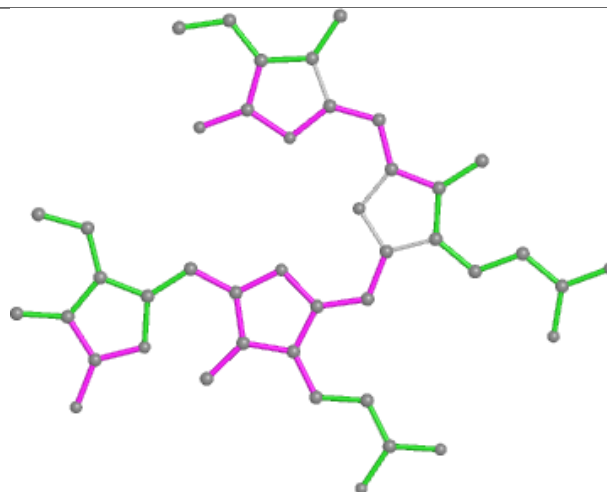


Rings

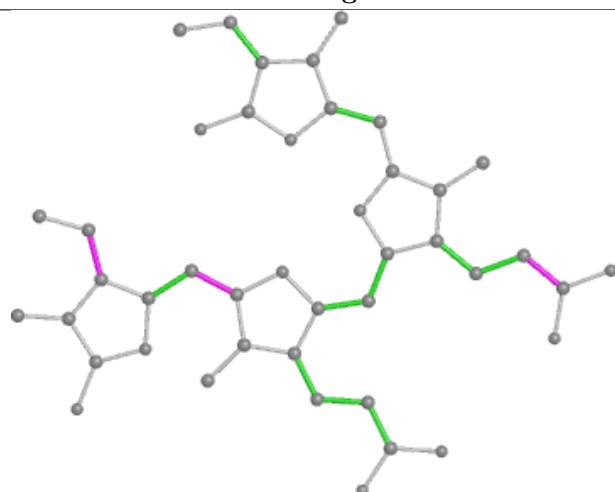
Ligand PEB FB 202



Bond lengths



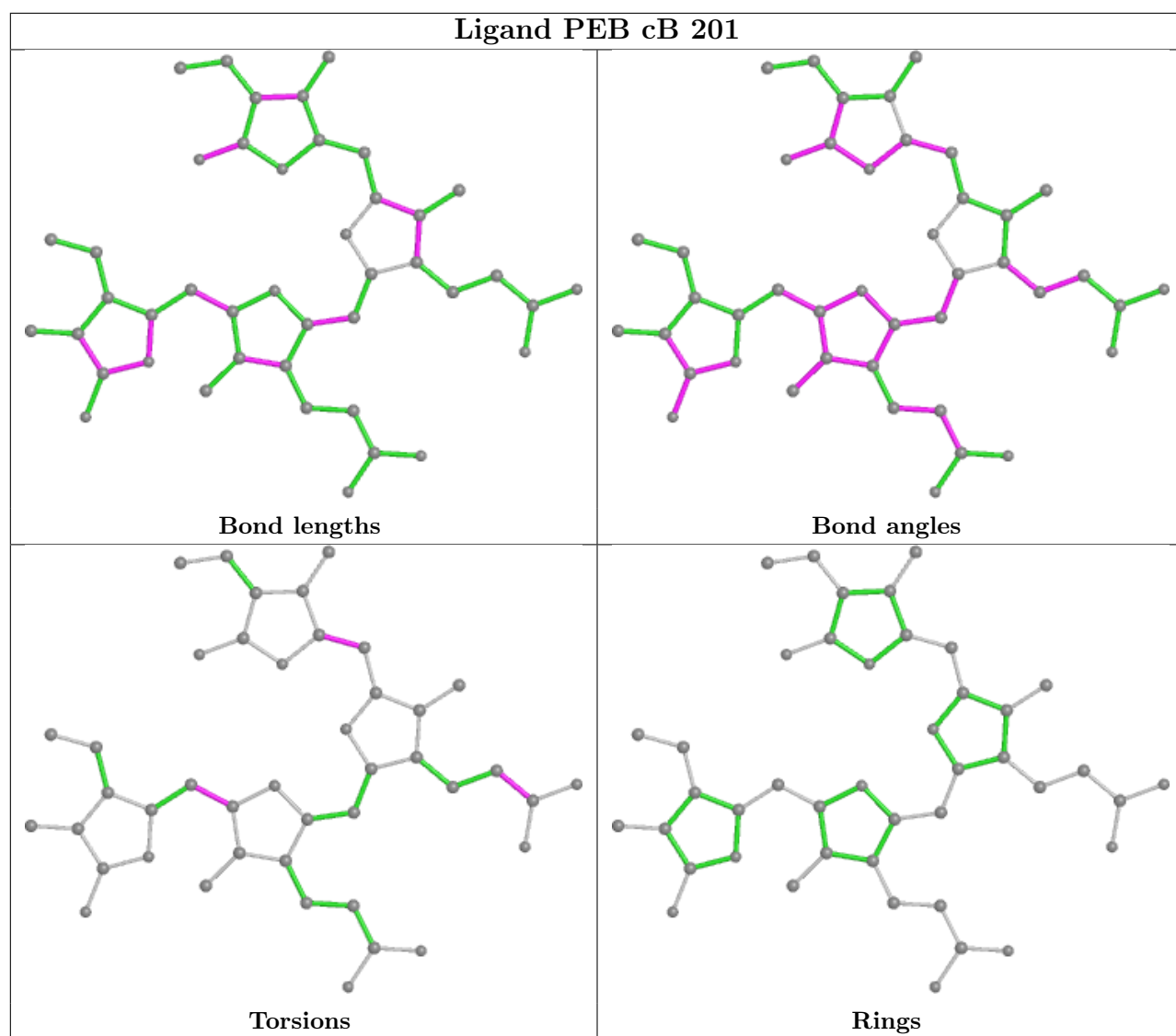
Bond angles



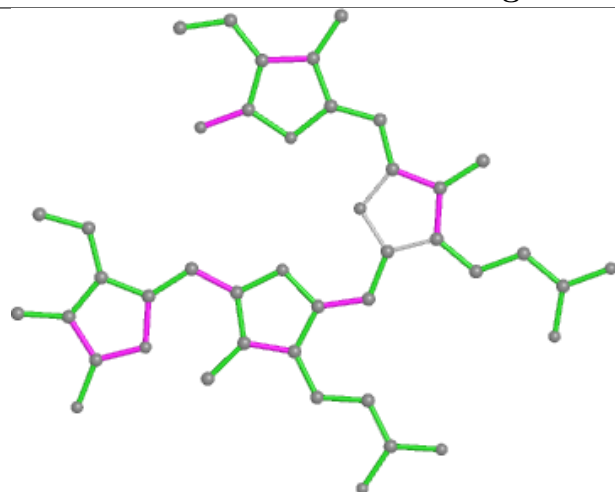
Torsions



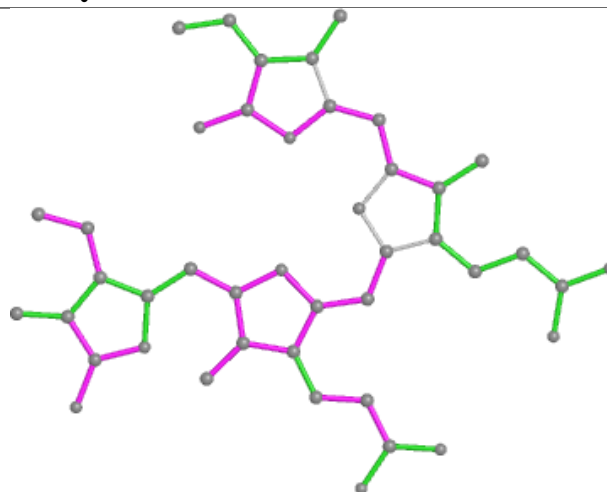
Rings



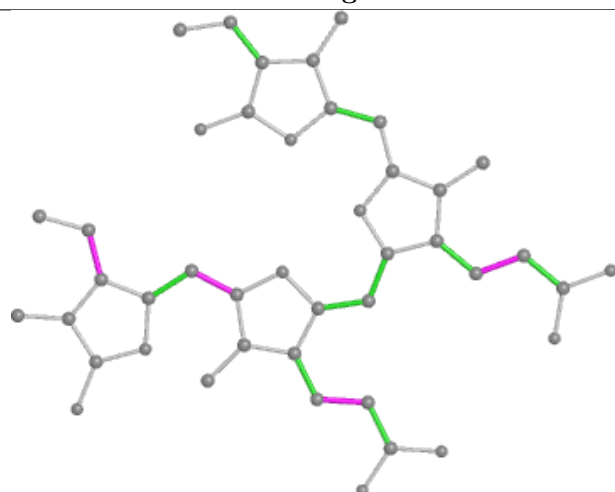
Ligand PEB HQ 202



Bond lengths



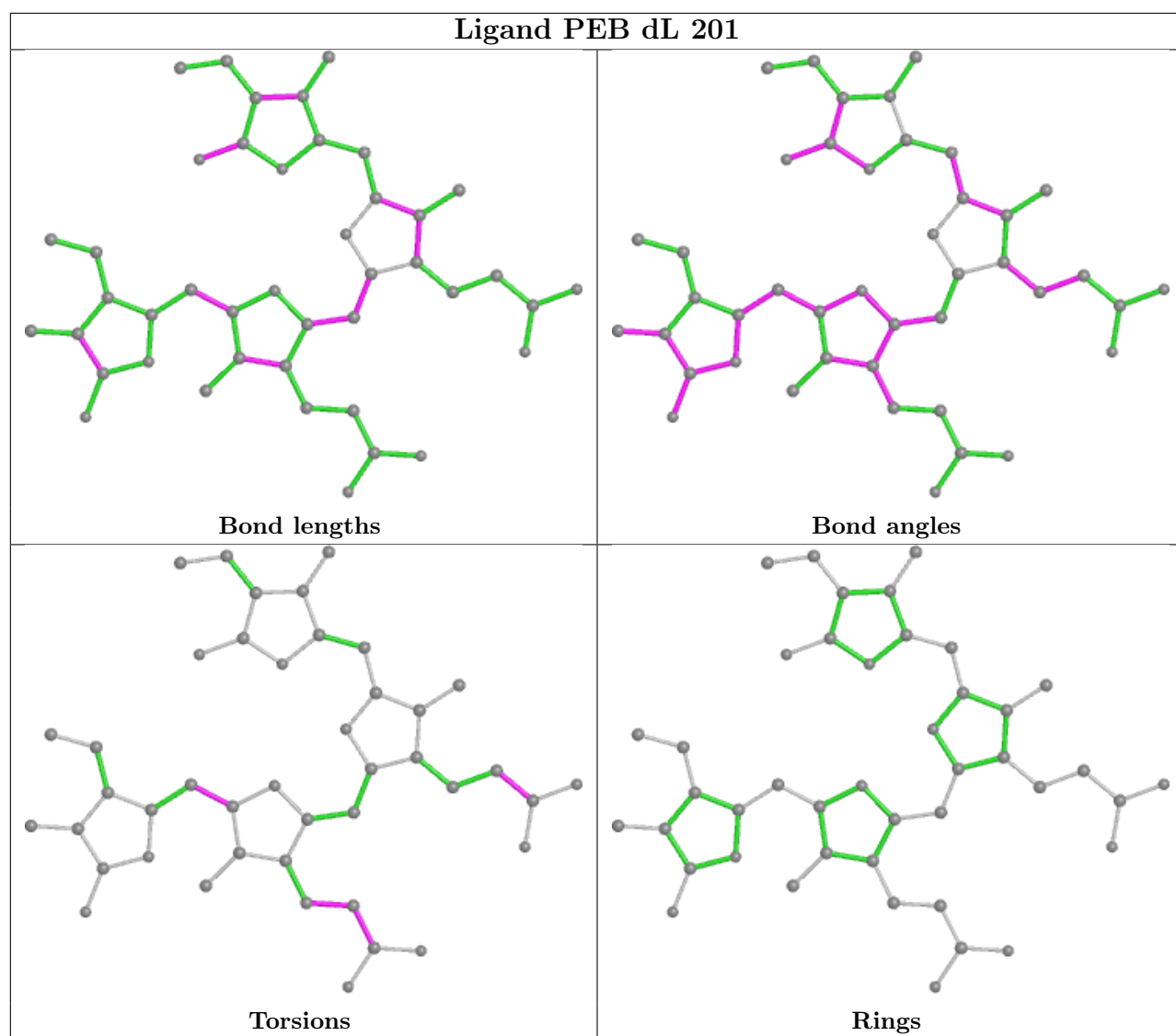
Bond angles

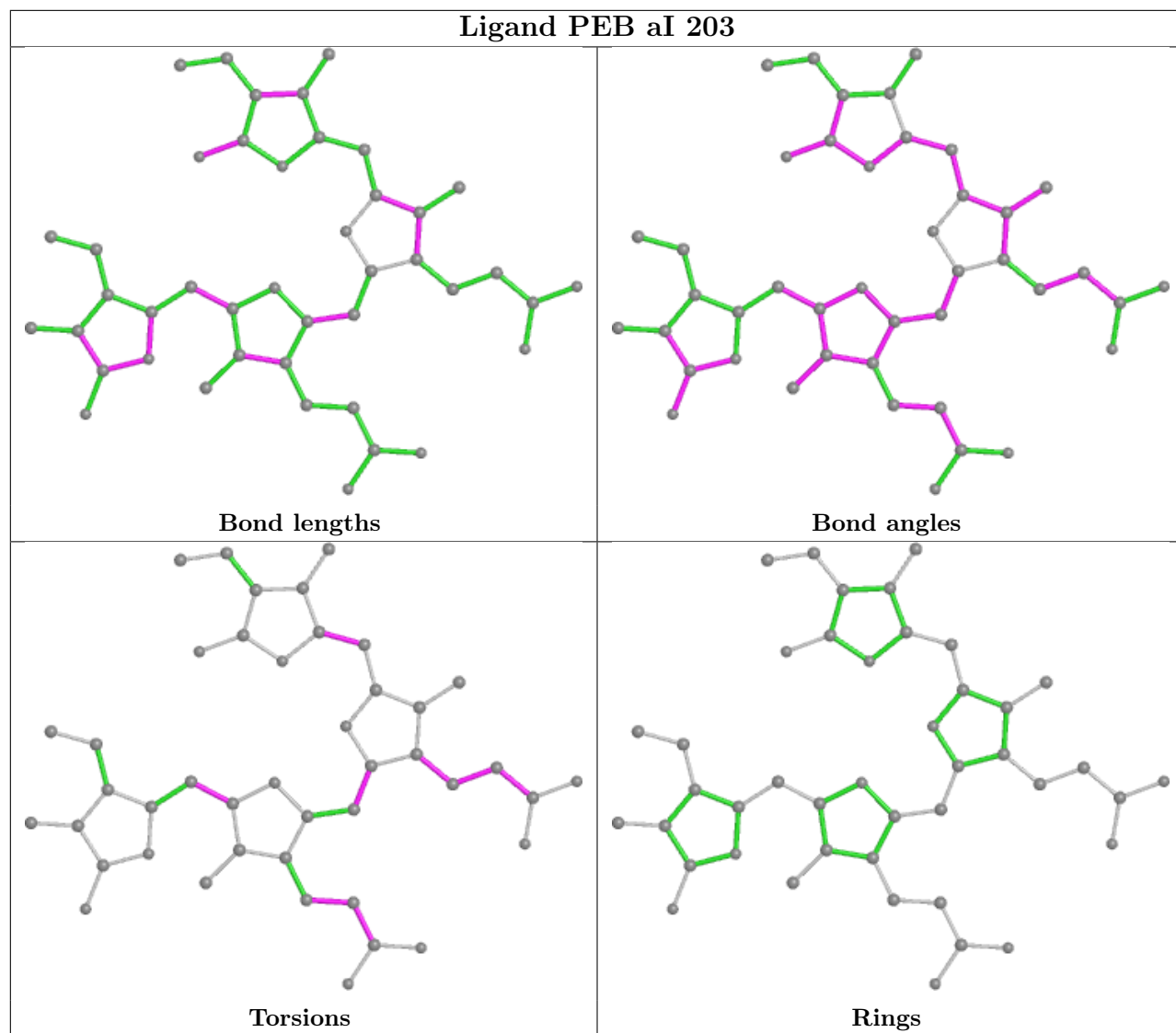


Torsions

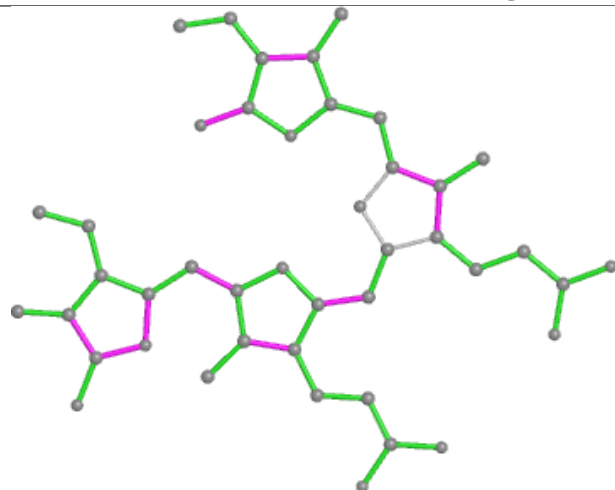


Rings

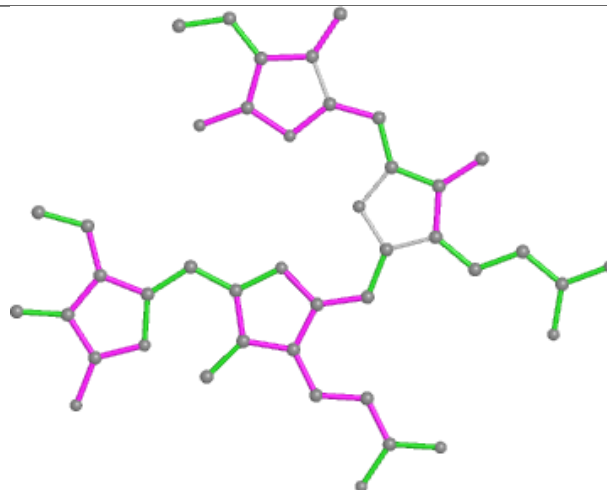




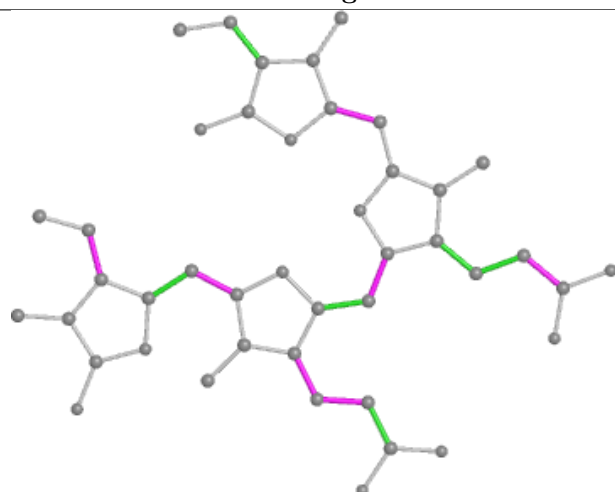
Ligand PEB J7 1002



Bond lengths



Bond angles

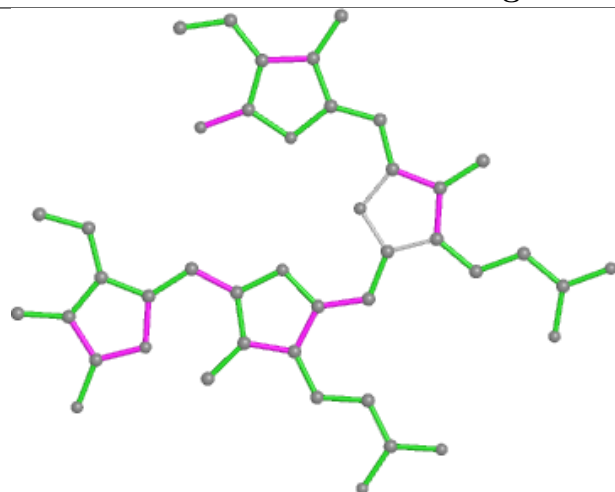


Torsions

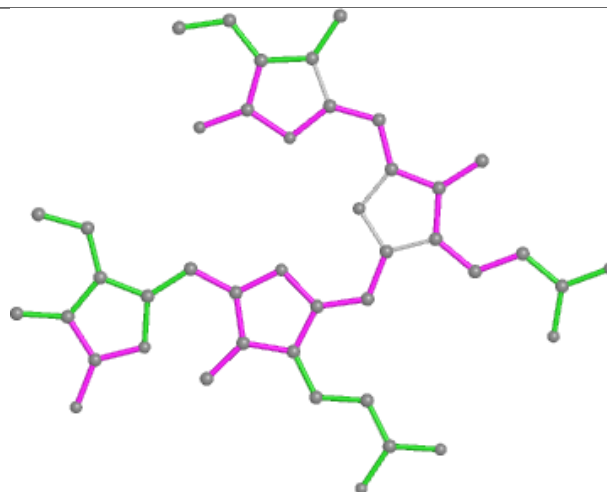


Rings

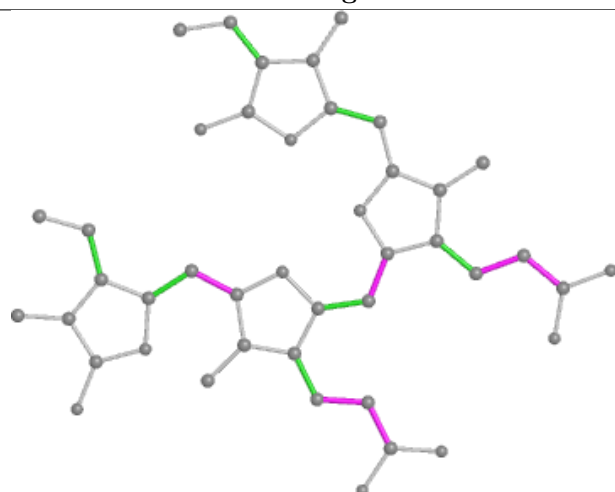
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Bond lengths



Bond angles

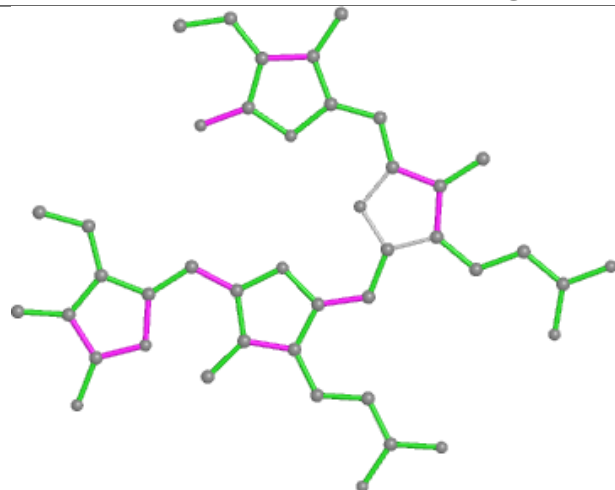


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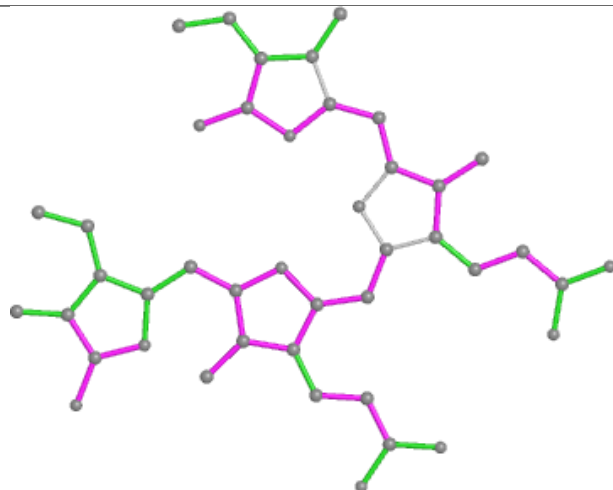


Rings

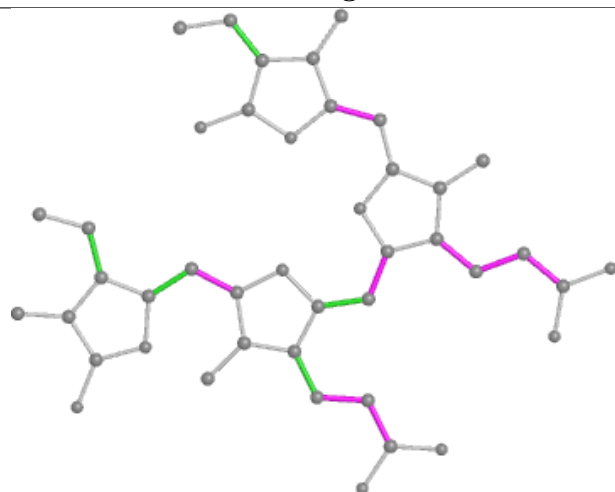
Ligand PEB VF 203



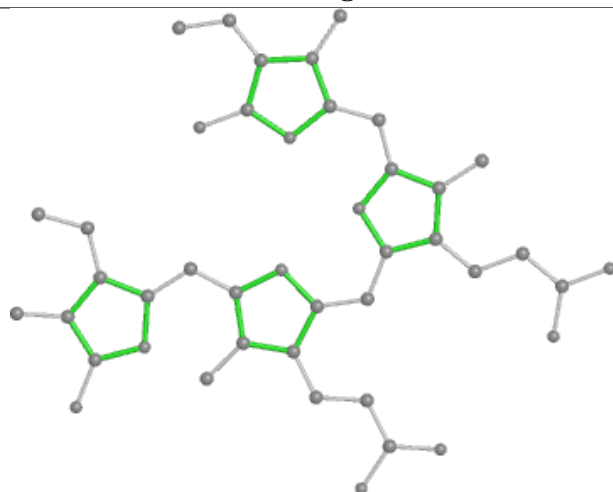
Bond lengths



Bond angles

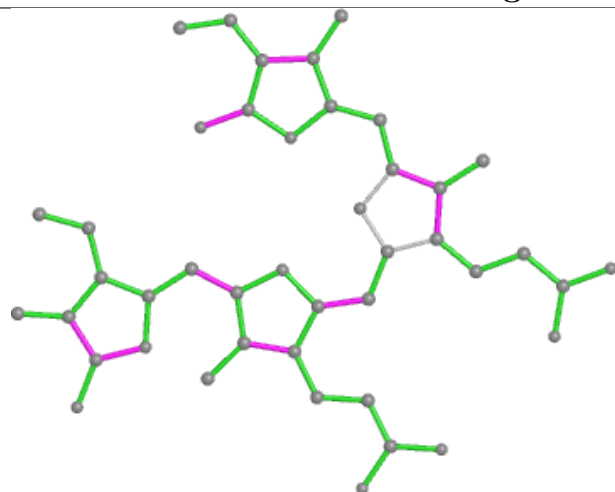


Torsions

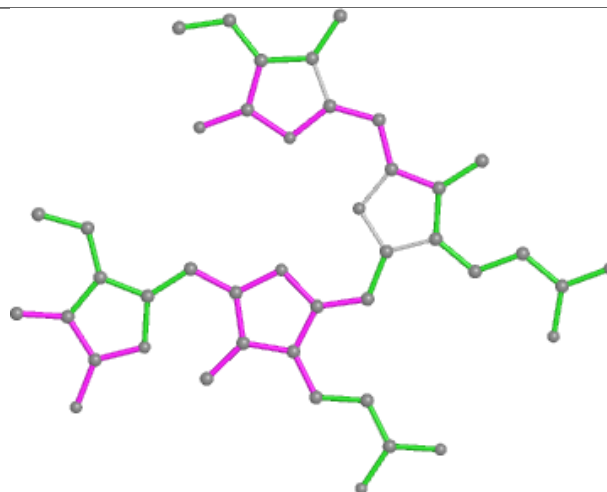


Rings

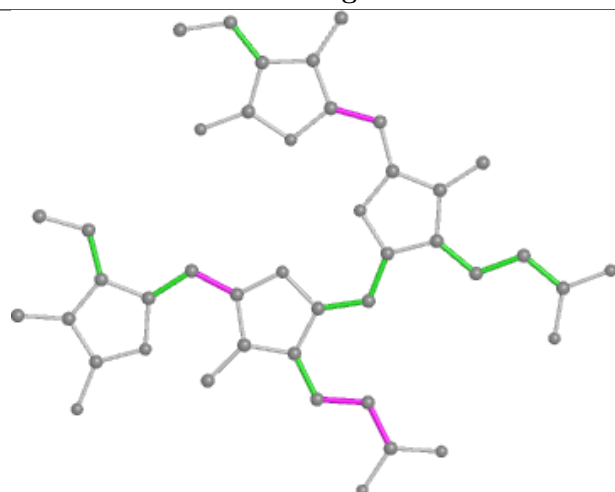
Ligand PEB TK 202



Bond lengths



Bond angles

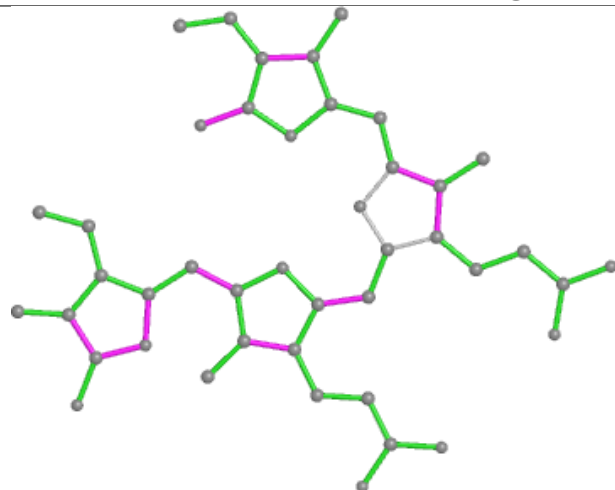


Torsions

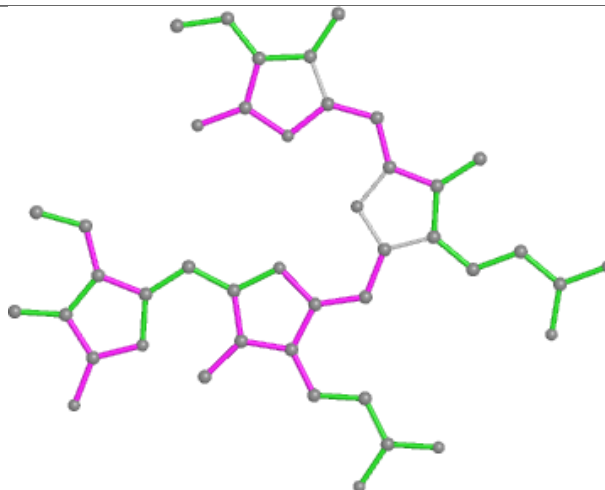


Rings

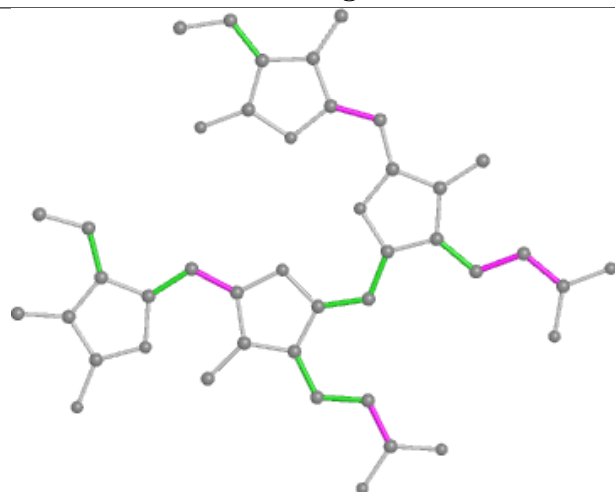
Ligand PEB V9 202



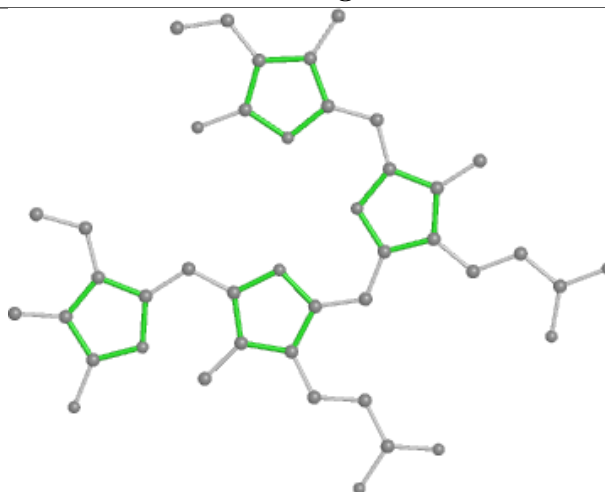
Bond lengths



Bond angles

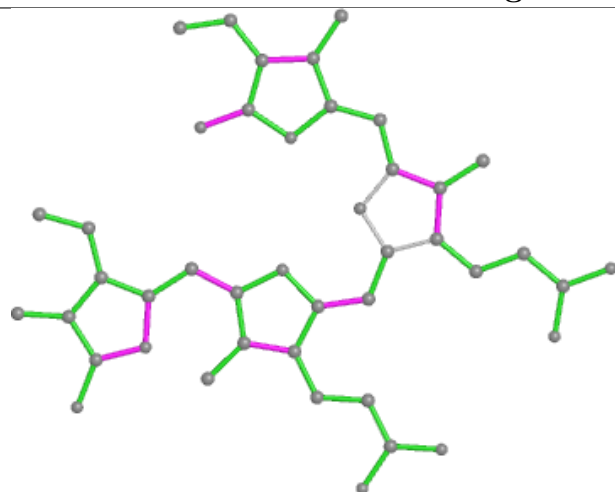


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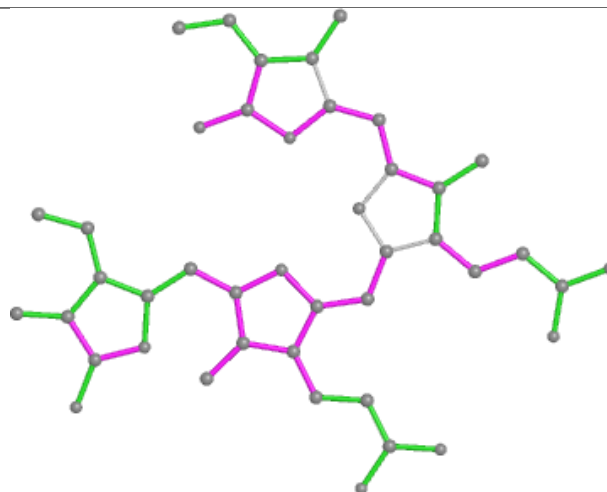


Rings

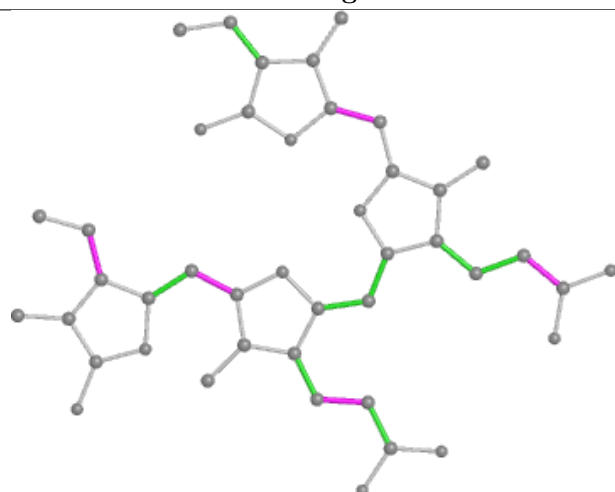
Ligand PEB KL 201



Bond lengths



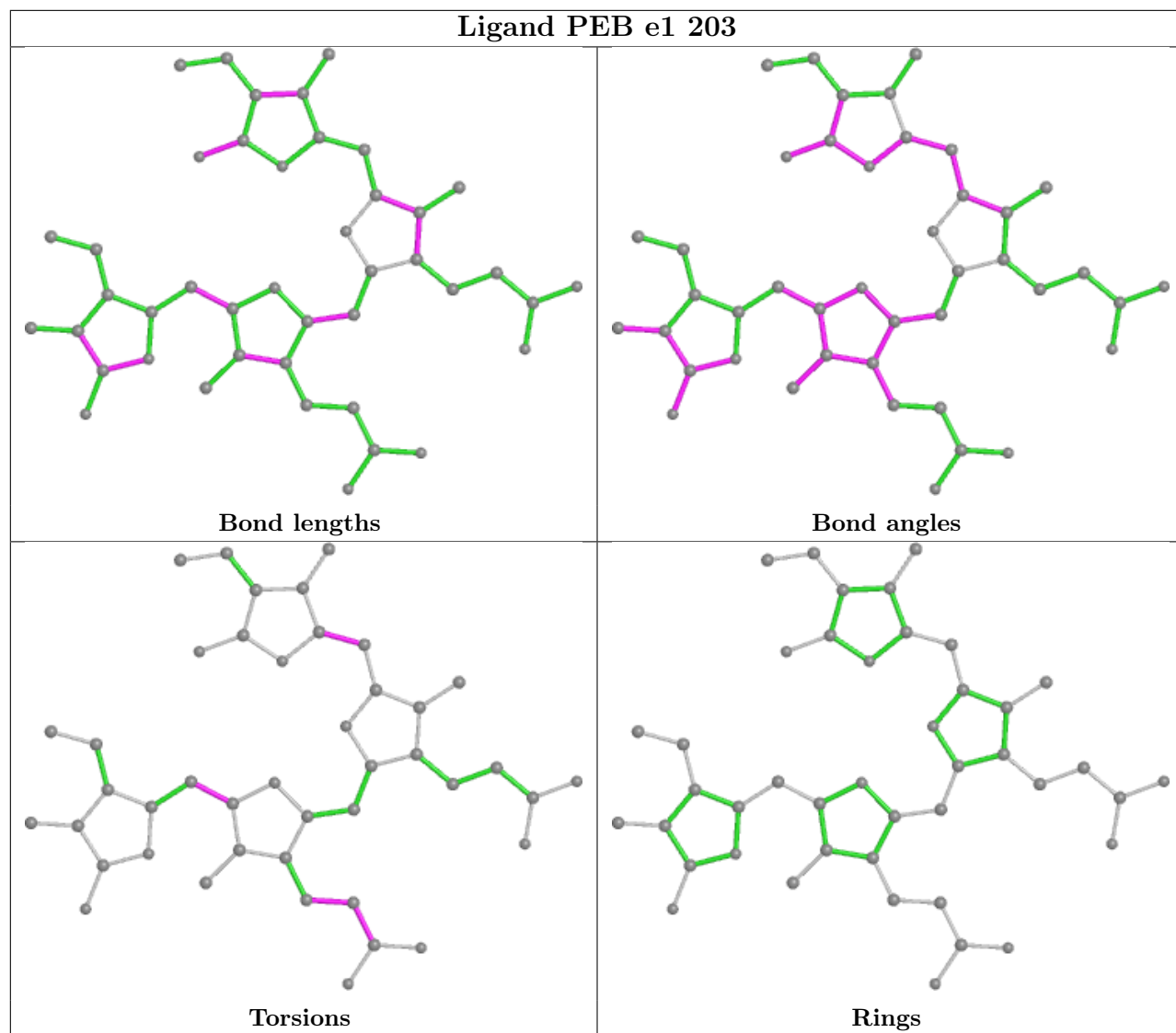
Bond angles

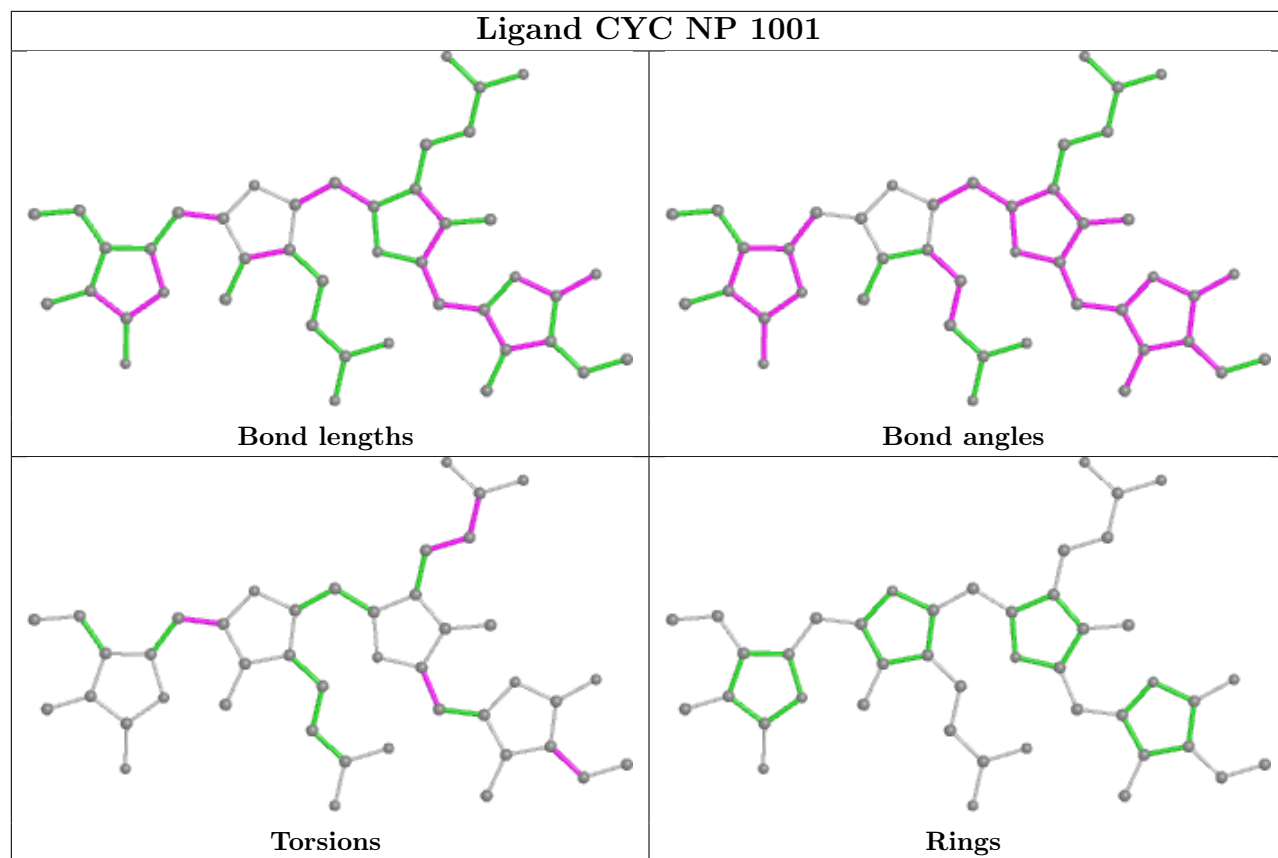


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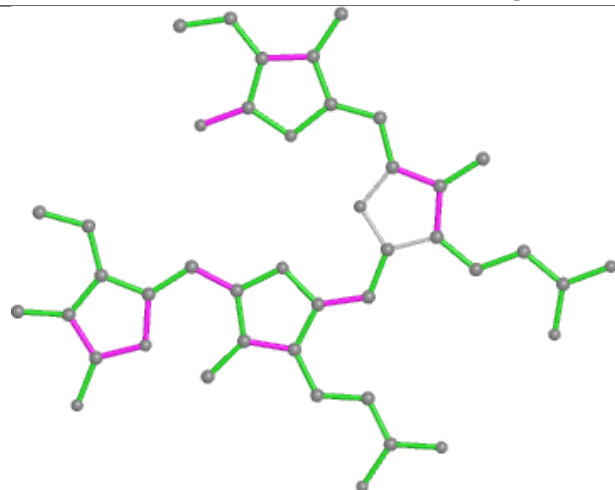


Rings

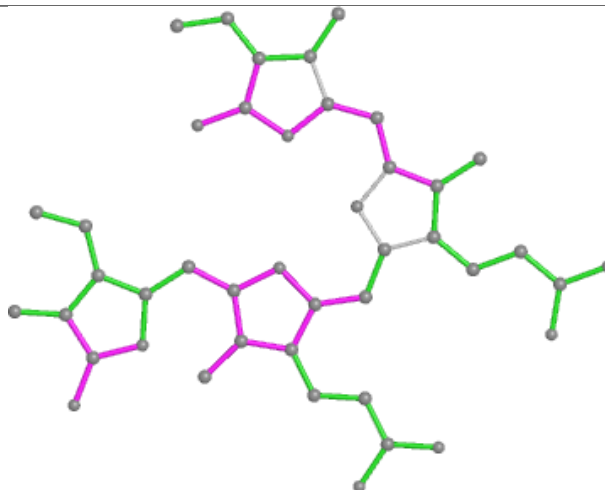




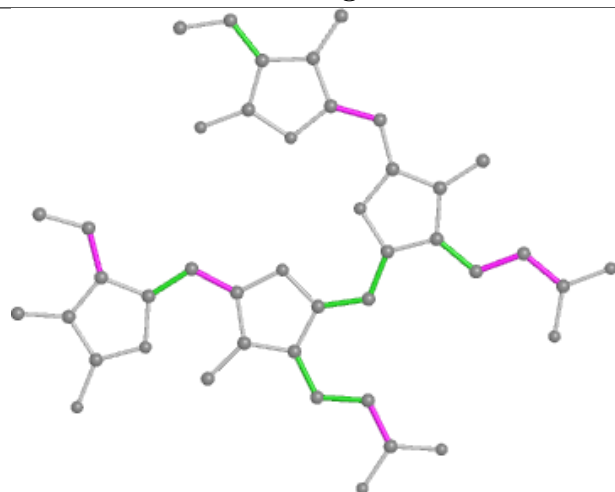
Ligand PEB B5 202



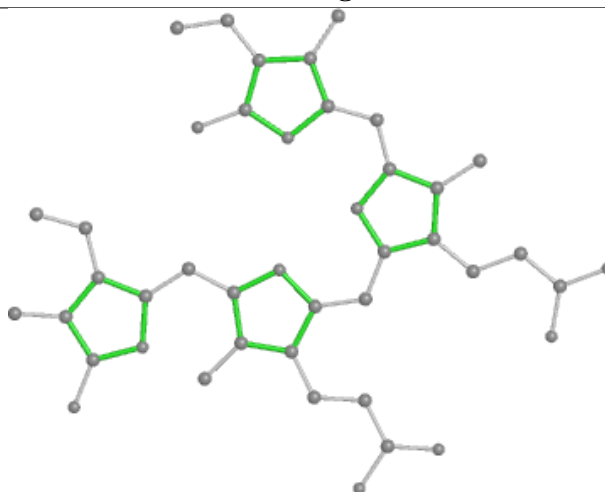
Bond lengths



Bond angles

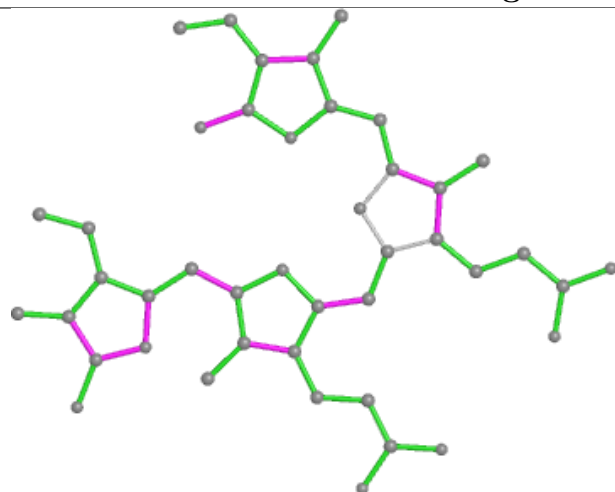


Torsions

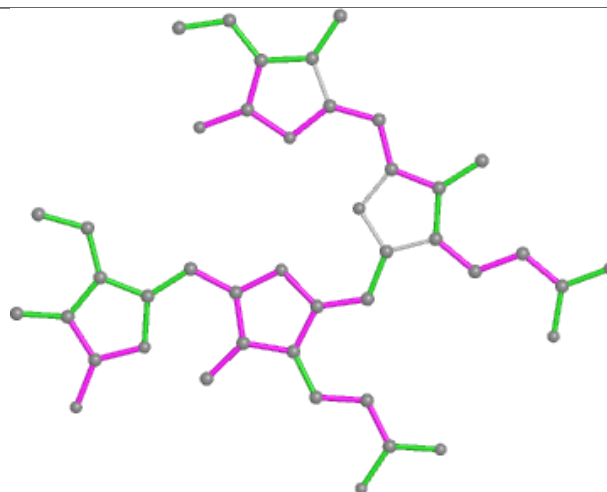


Rings

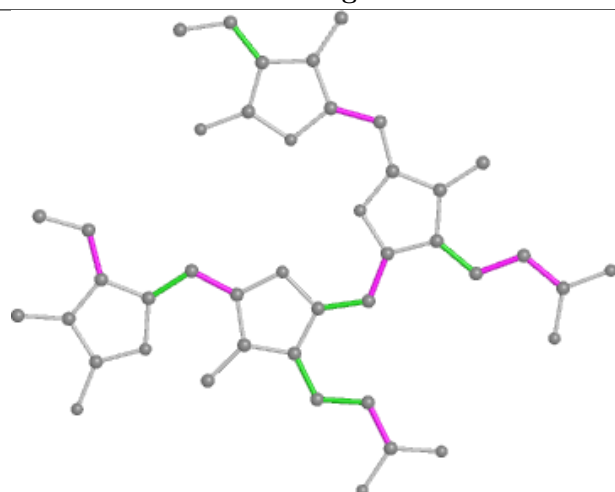
Ligand PEB XR 203



Bond lengths



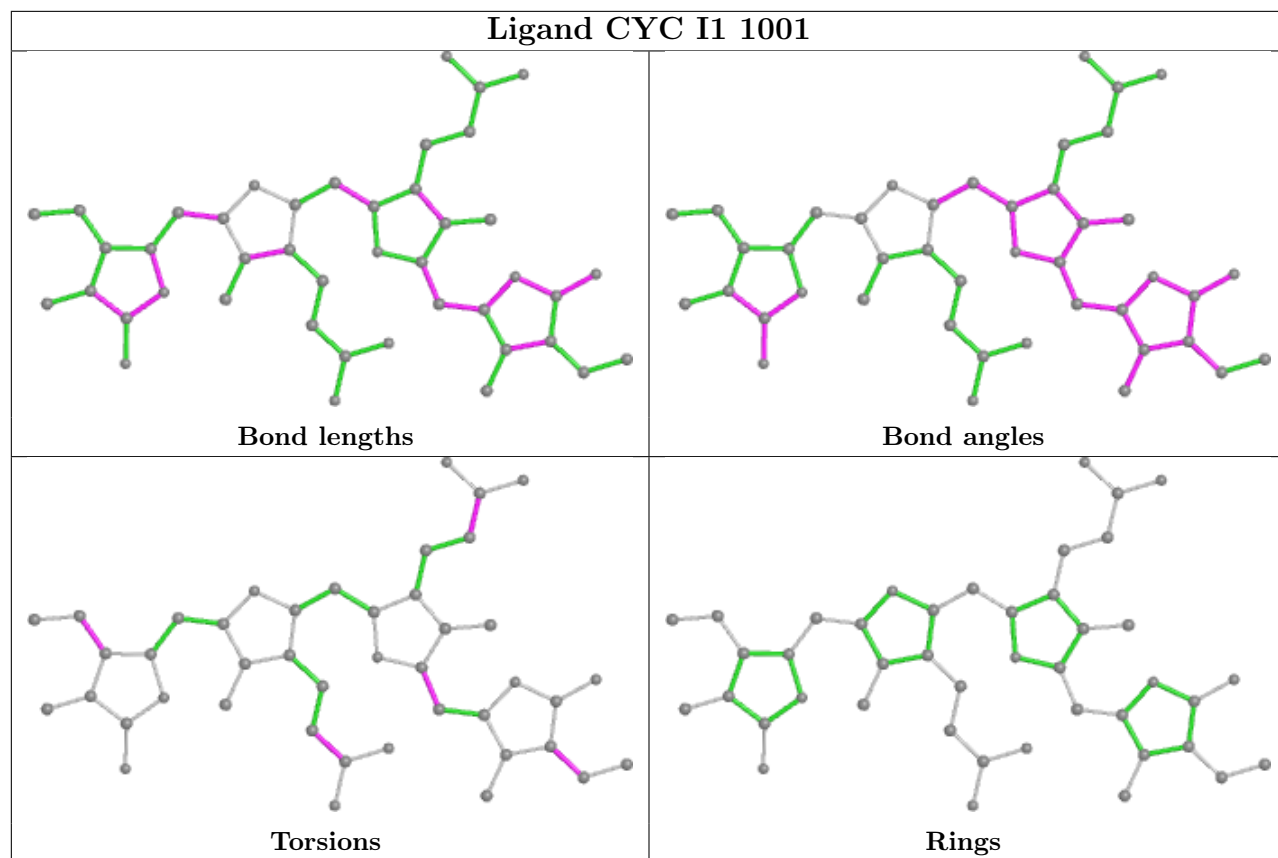
Bond angles



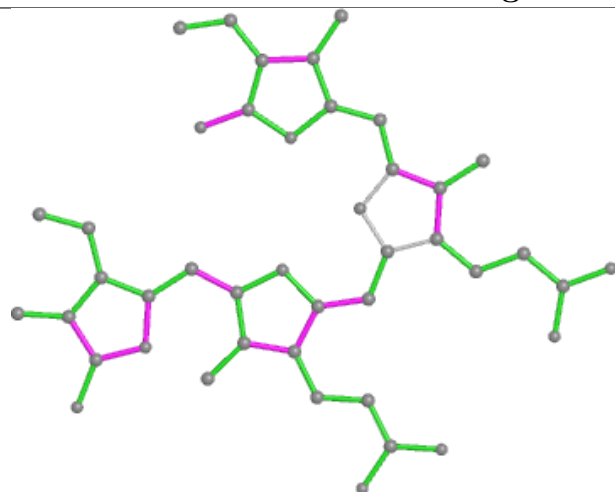
Torsions



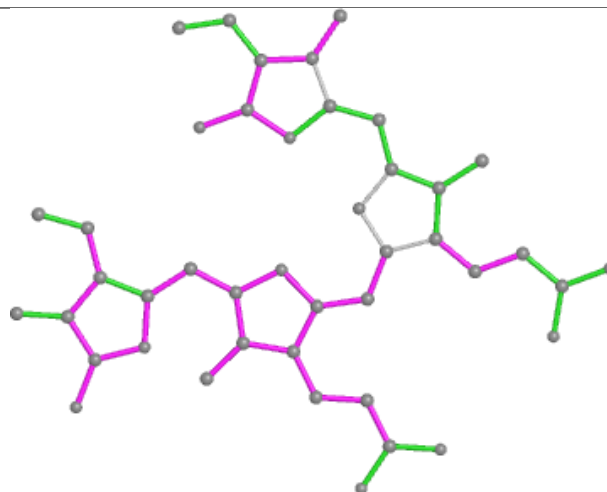
Rings



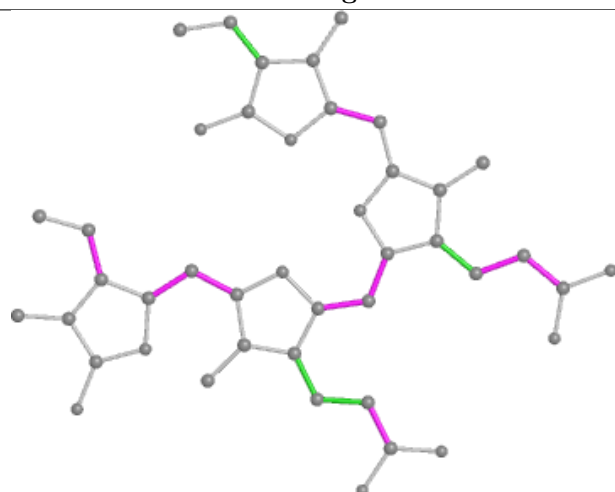
Ligand PEB KA 202



Bond lengths



Bond angles

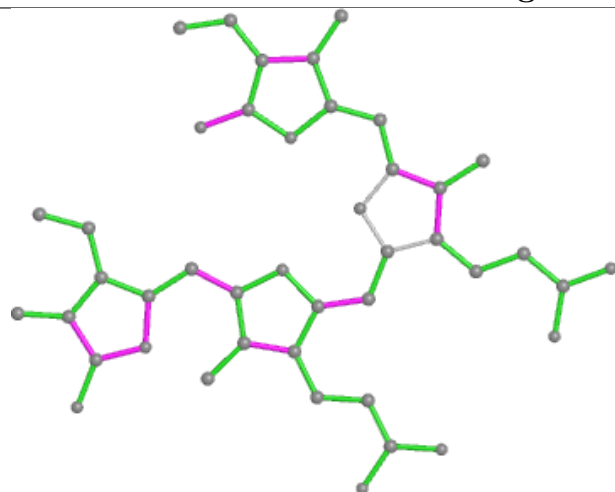


Torsions

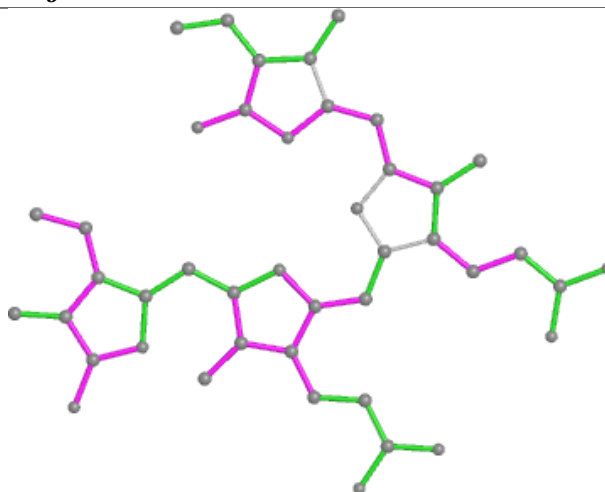


Rings

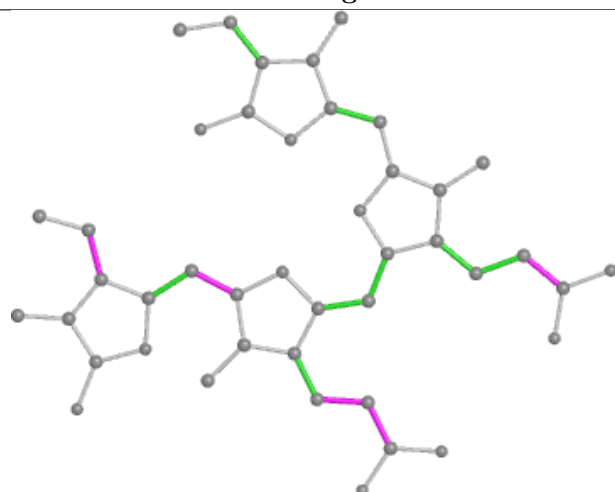
Ligand PEB jI 202



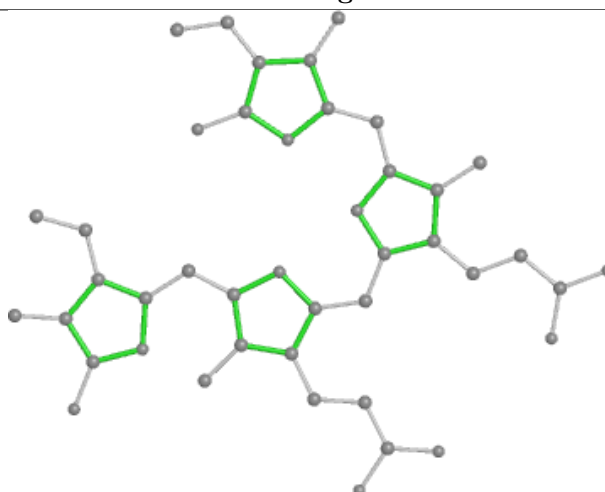
Bond lengths



Bond angles

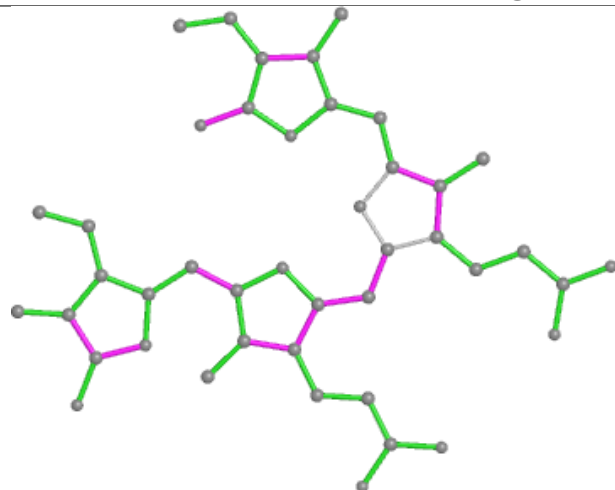


Torsions

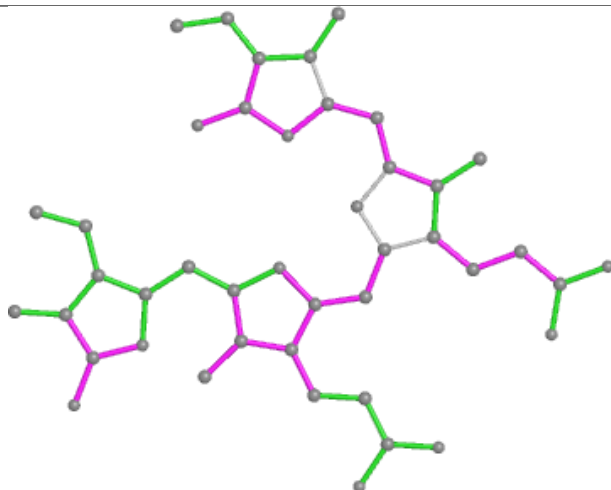


Rings

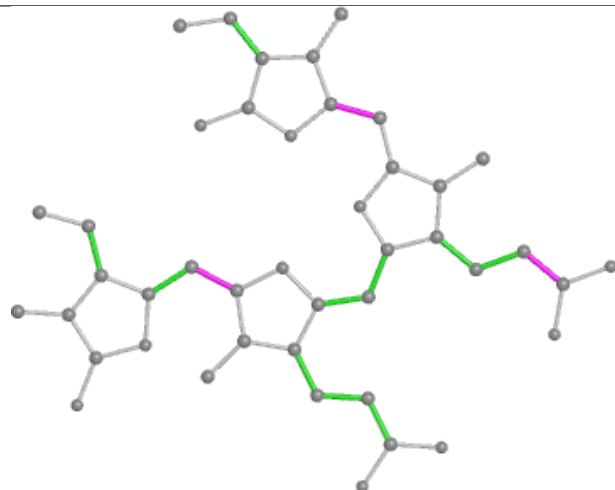
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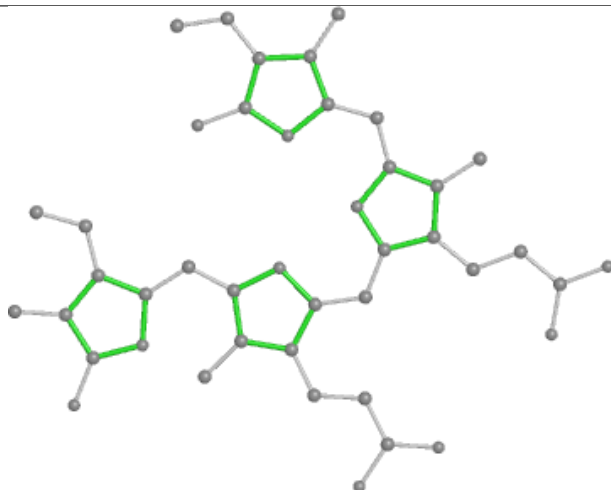
Bond lengths



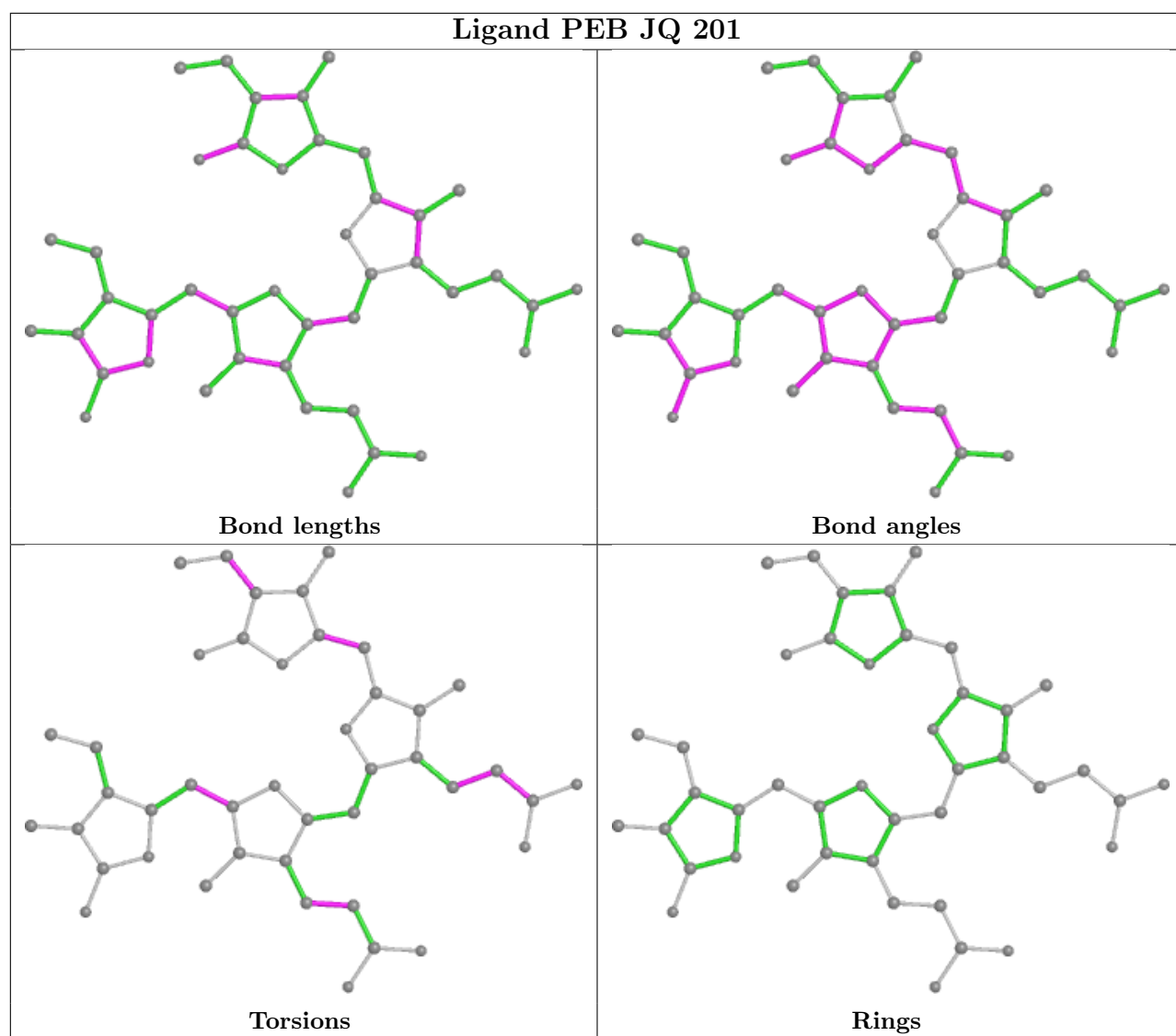
Bond angles



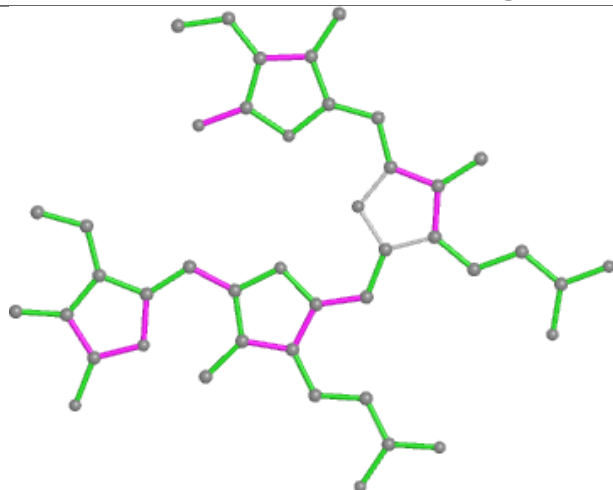
Torsions



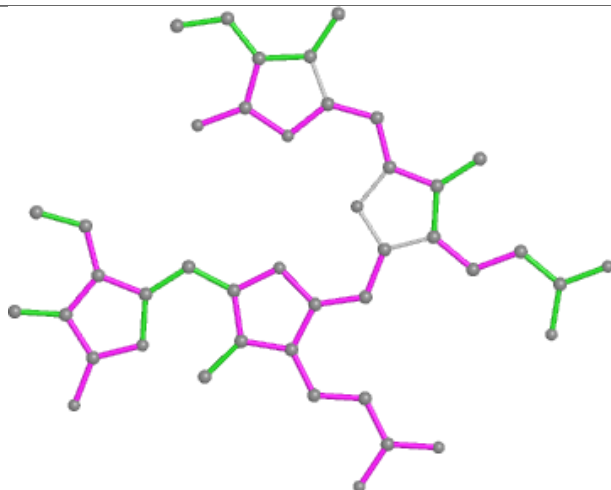
Rings



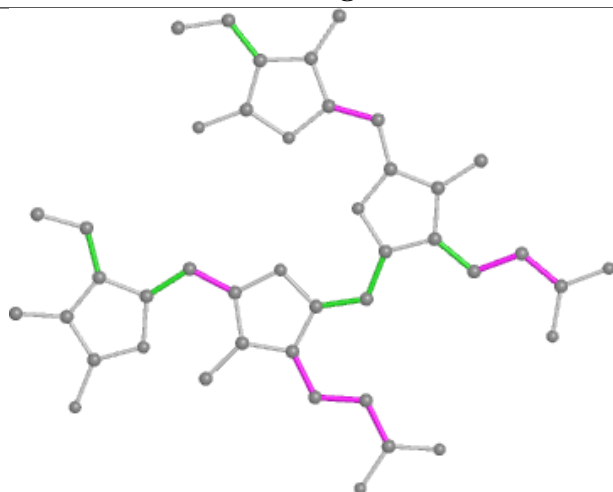
Ligand PEB HN 201



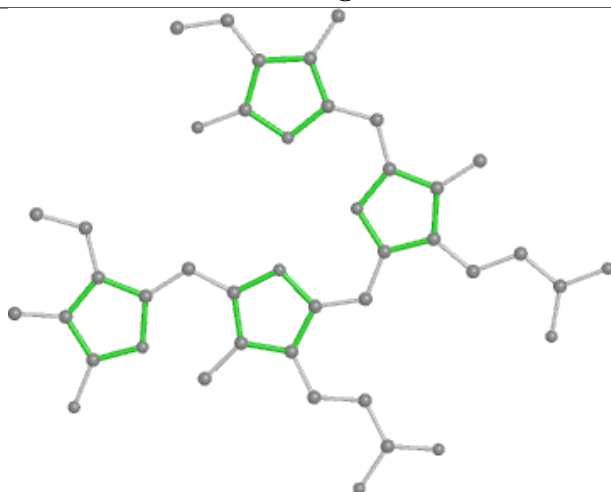
Bond lengths



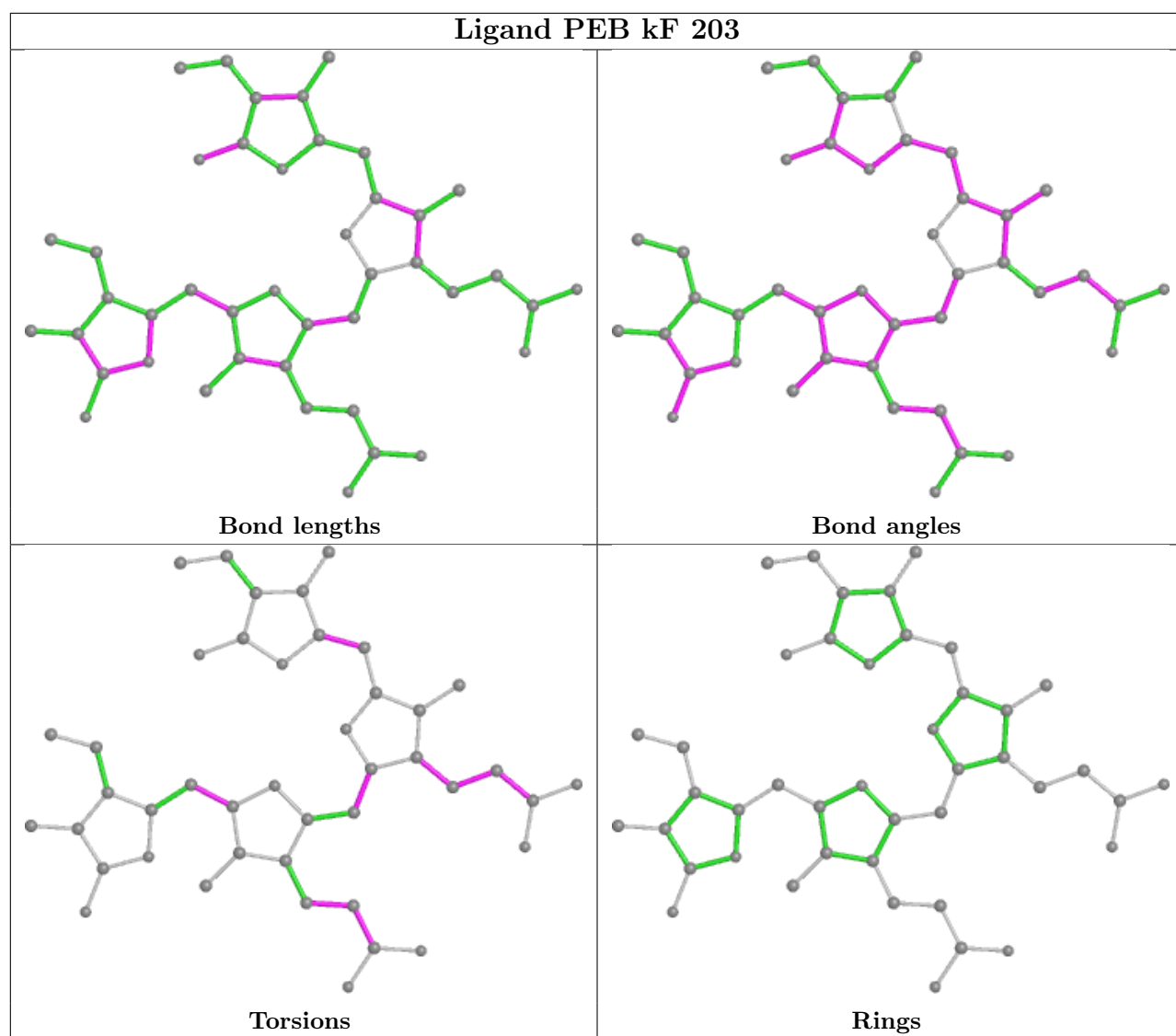
Bond angles

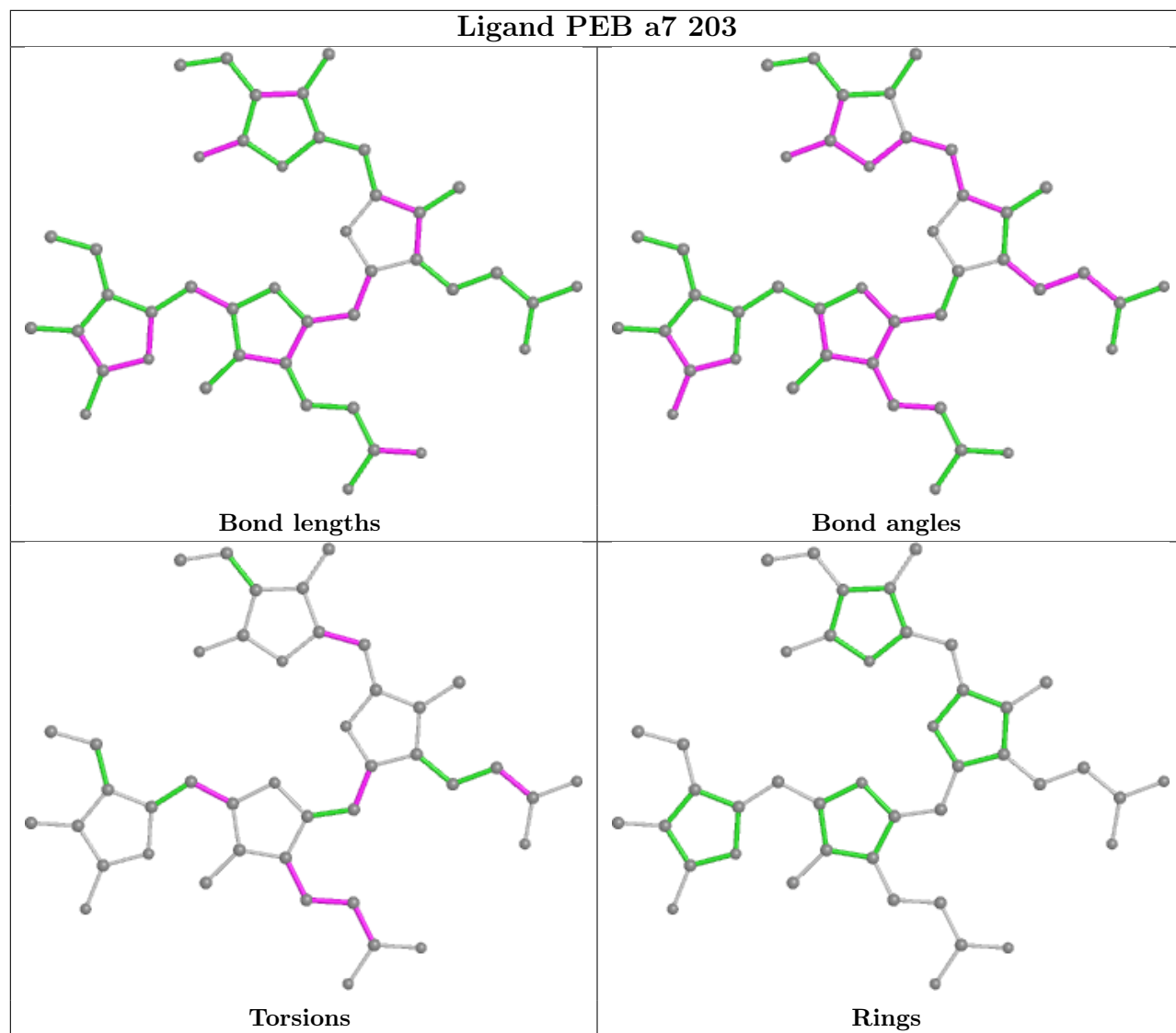


Torsions

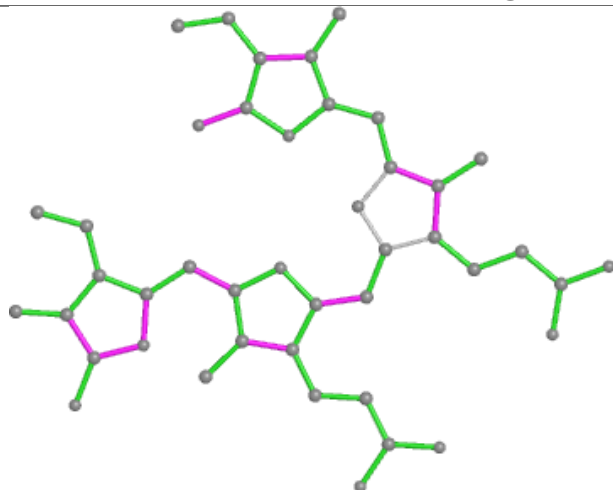


Rings

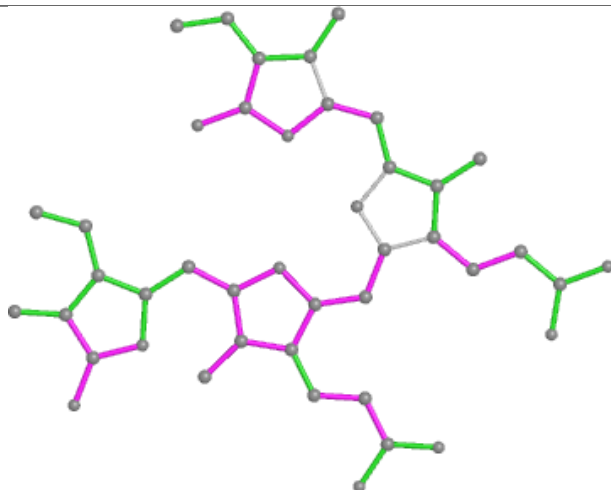




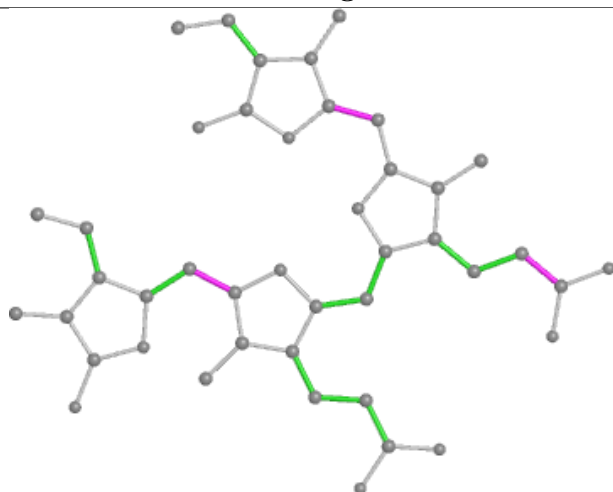
Ligand PEB RB 201



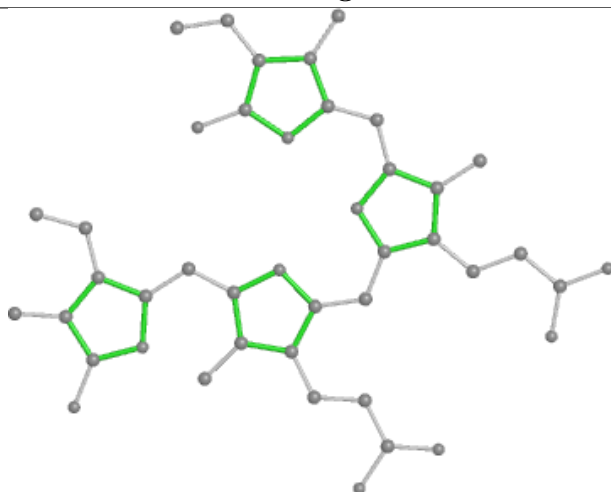
Bond lengths



Bond angles

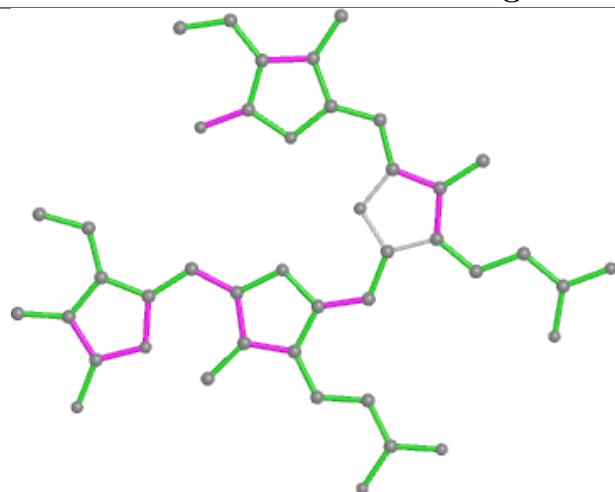


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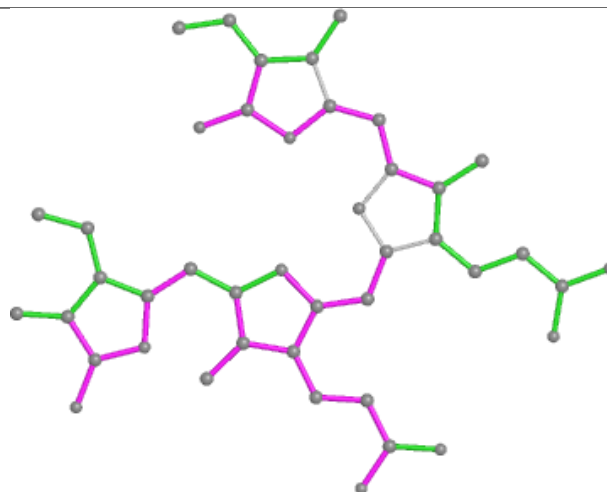


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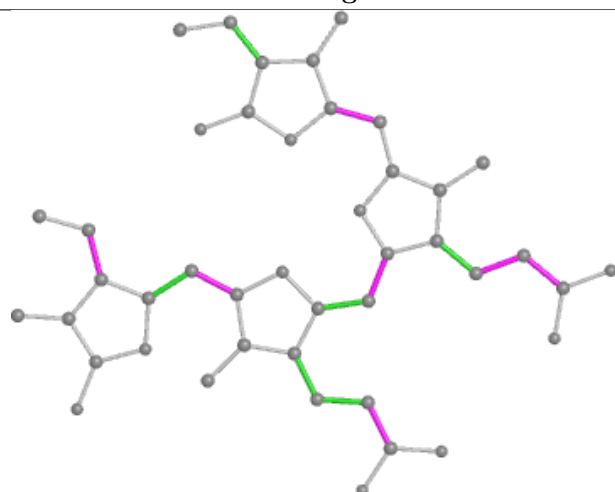
Ligand PEB HB 203



Bond lengths



Bond angles

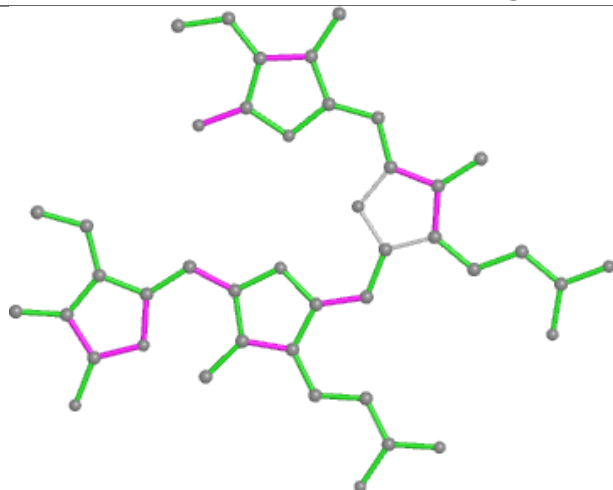


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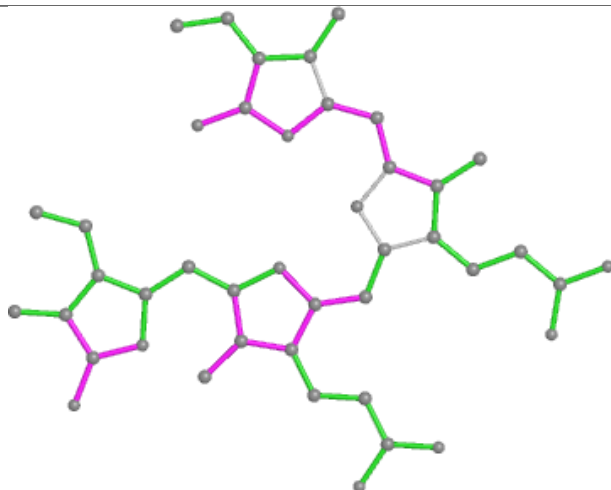


Rings

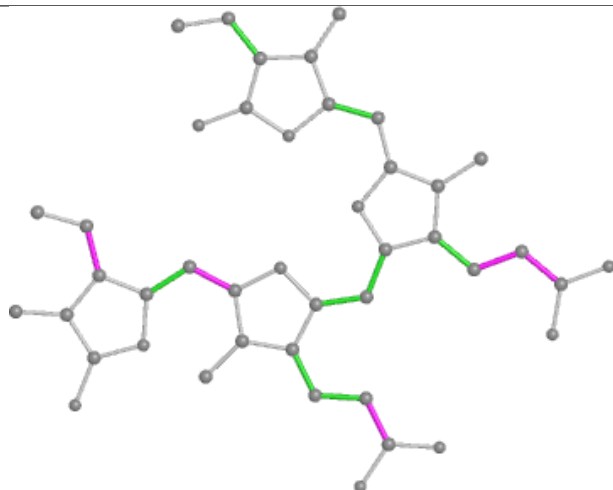
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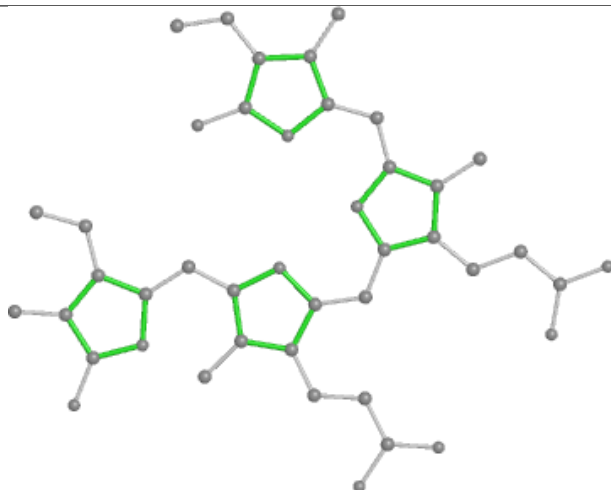
Bond lengths



Bond angles

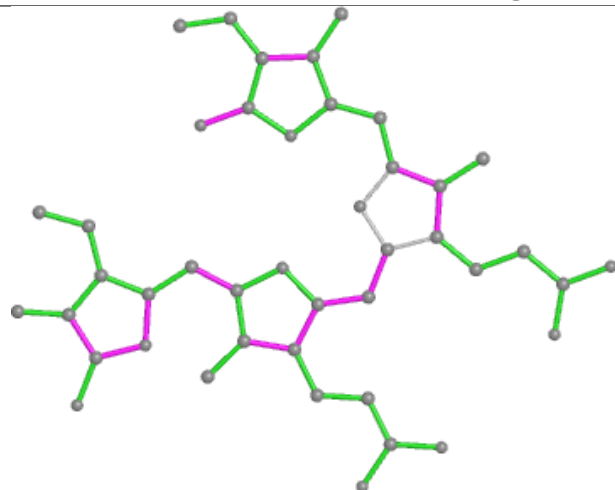


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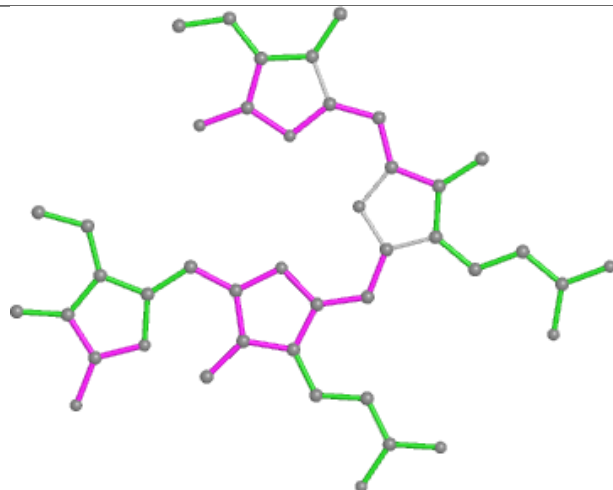


Rings

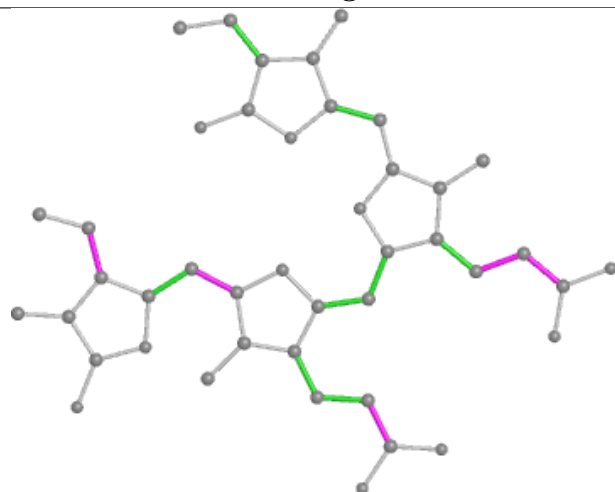
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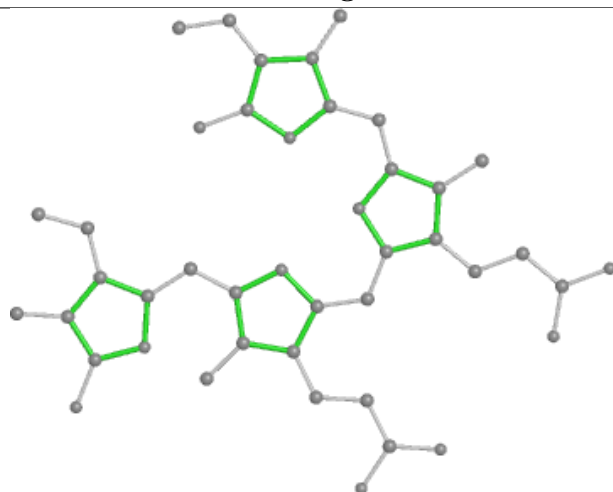
Bond lengths



Bond angles

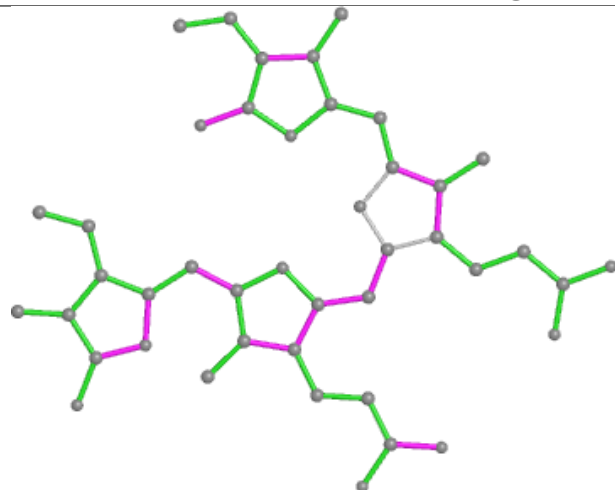


Torsions

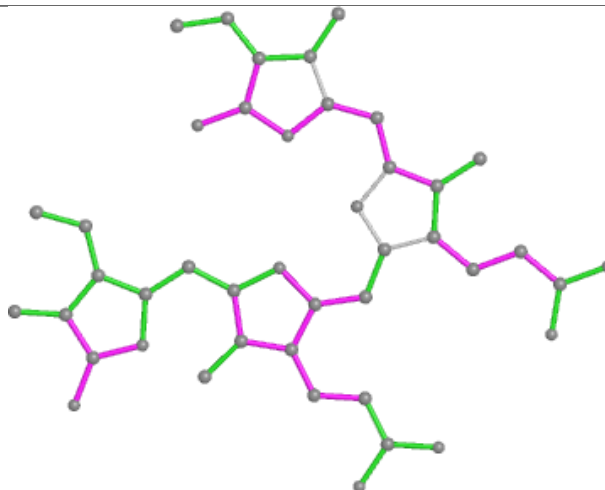


Rings

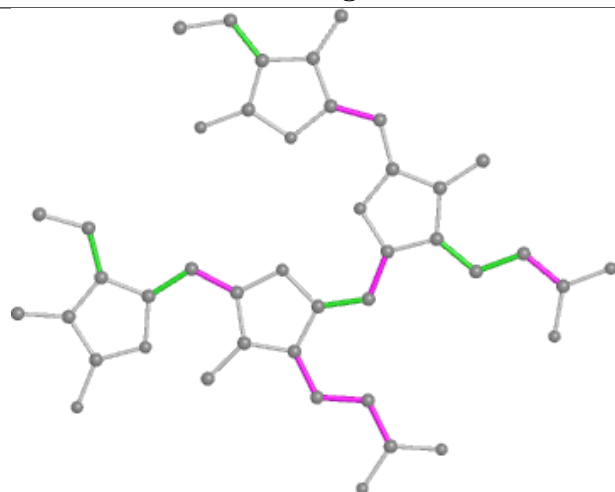
Ligand PEB V7 203



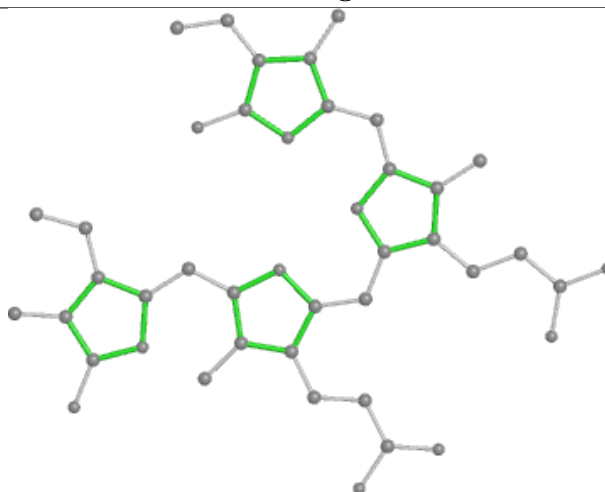
Bond lengths



Bond angles

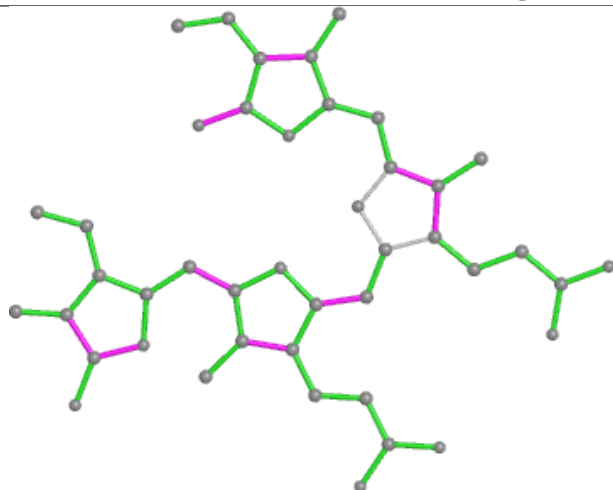


Torsions

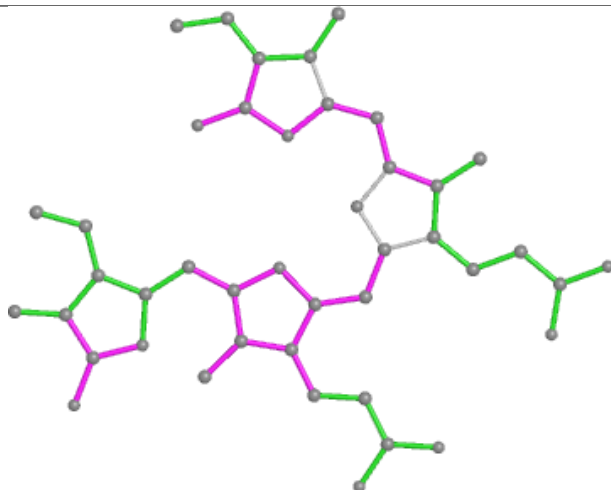


Rings

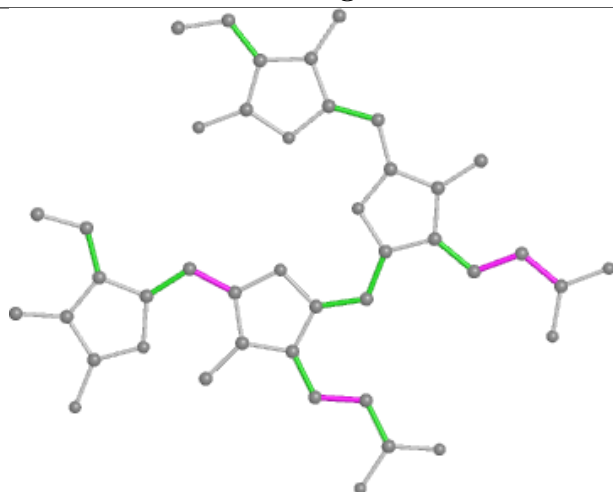
Ligand PEB i1 202



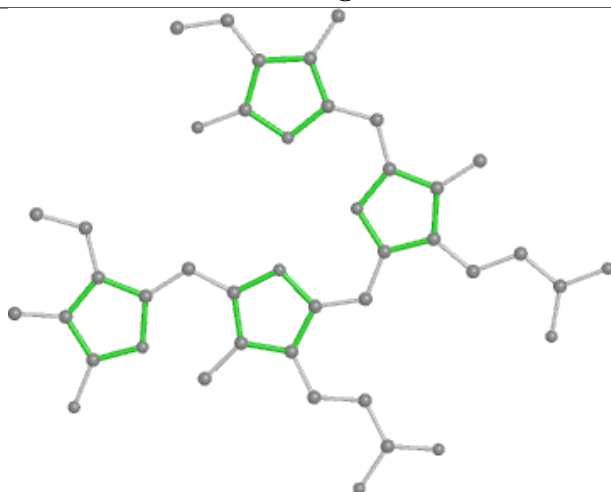
Bond lengths



Bond angles

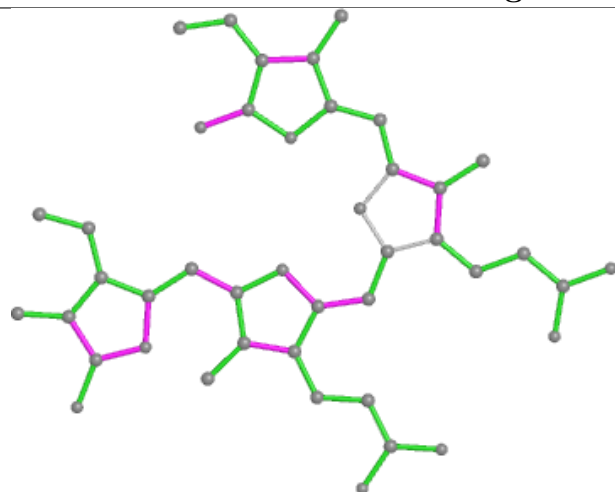


Torsions

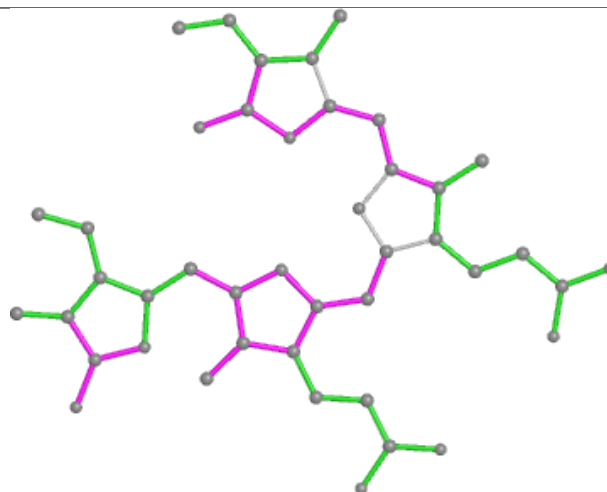


Rings

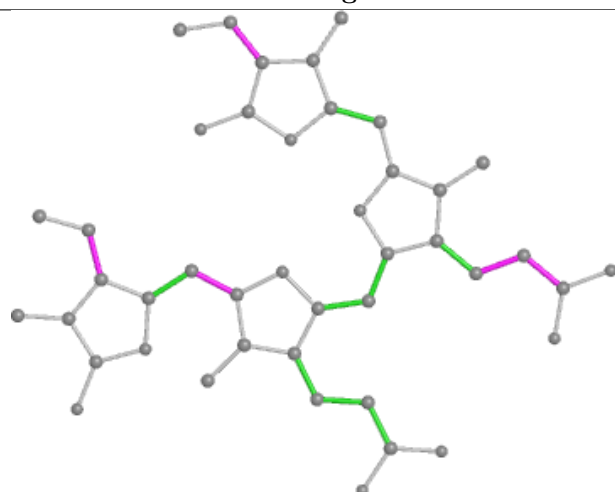
Ligand PEB NL 202



Bond lengths



Bond angles

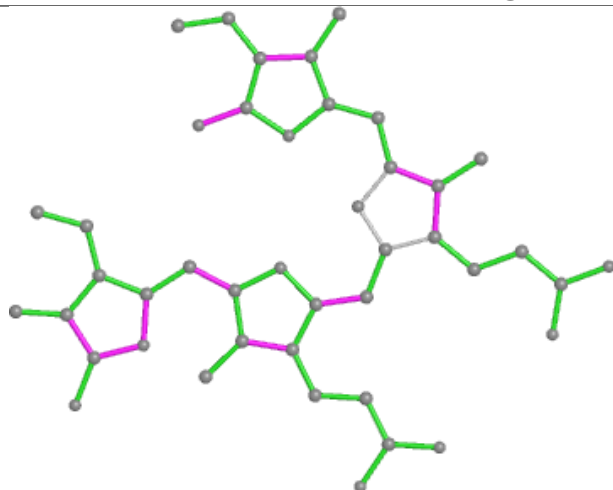


Torsions

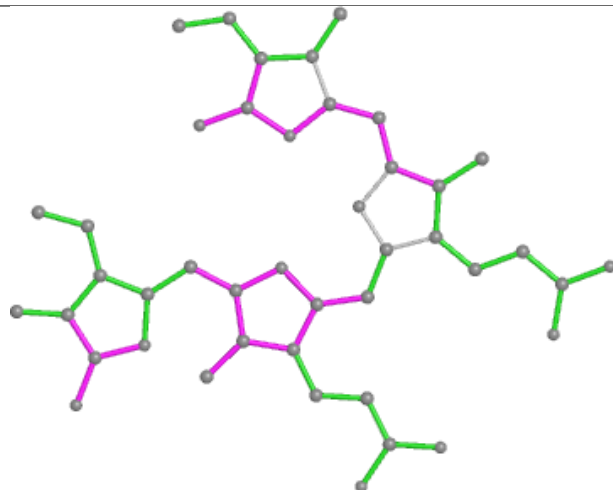


Rings

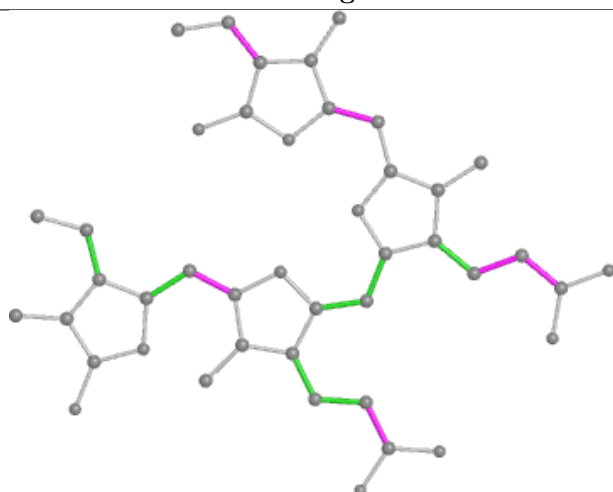
Ligand PEB M3 202



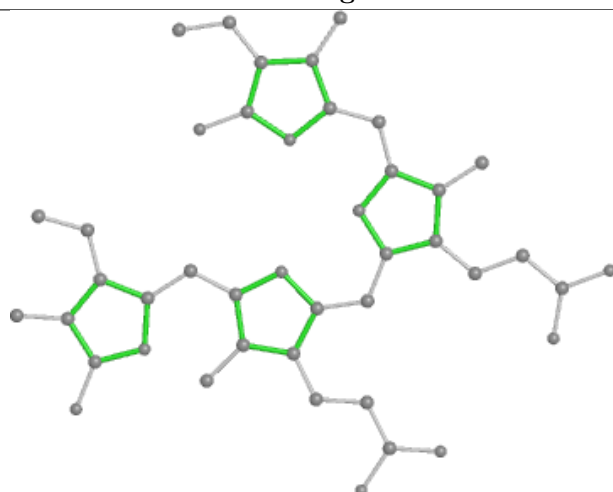
Bond lengths



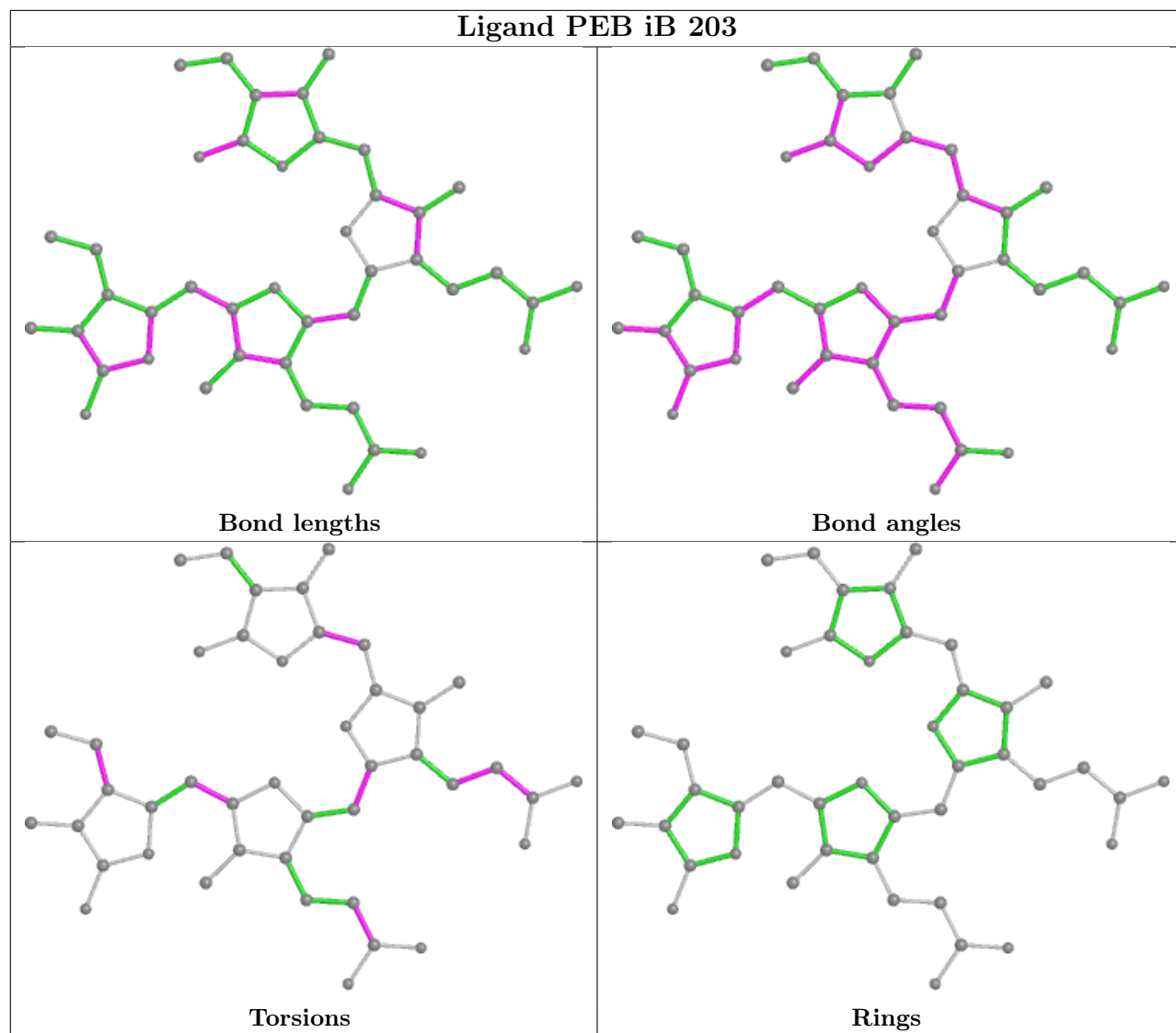
Bond angles

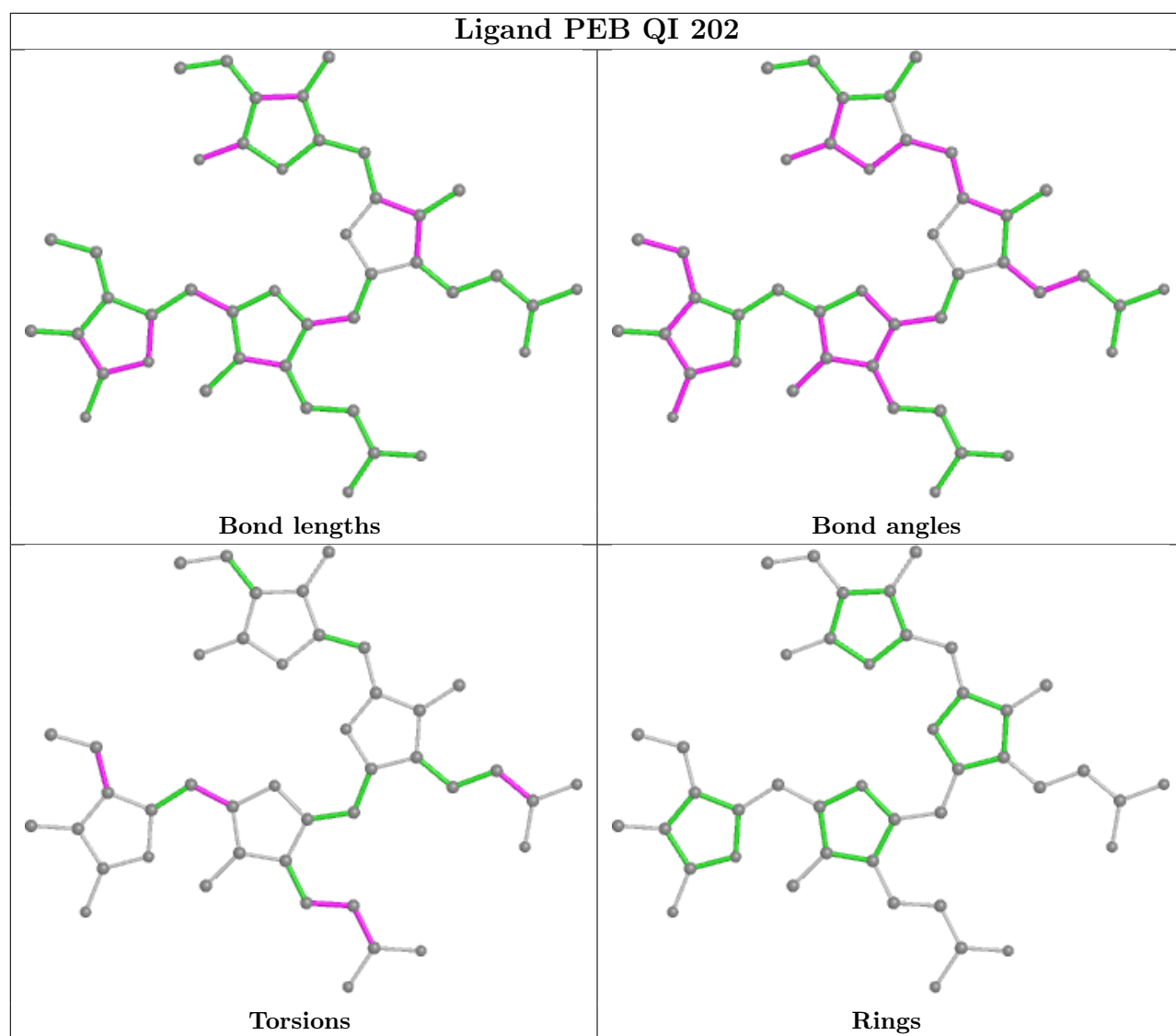


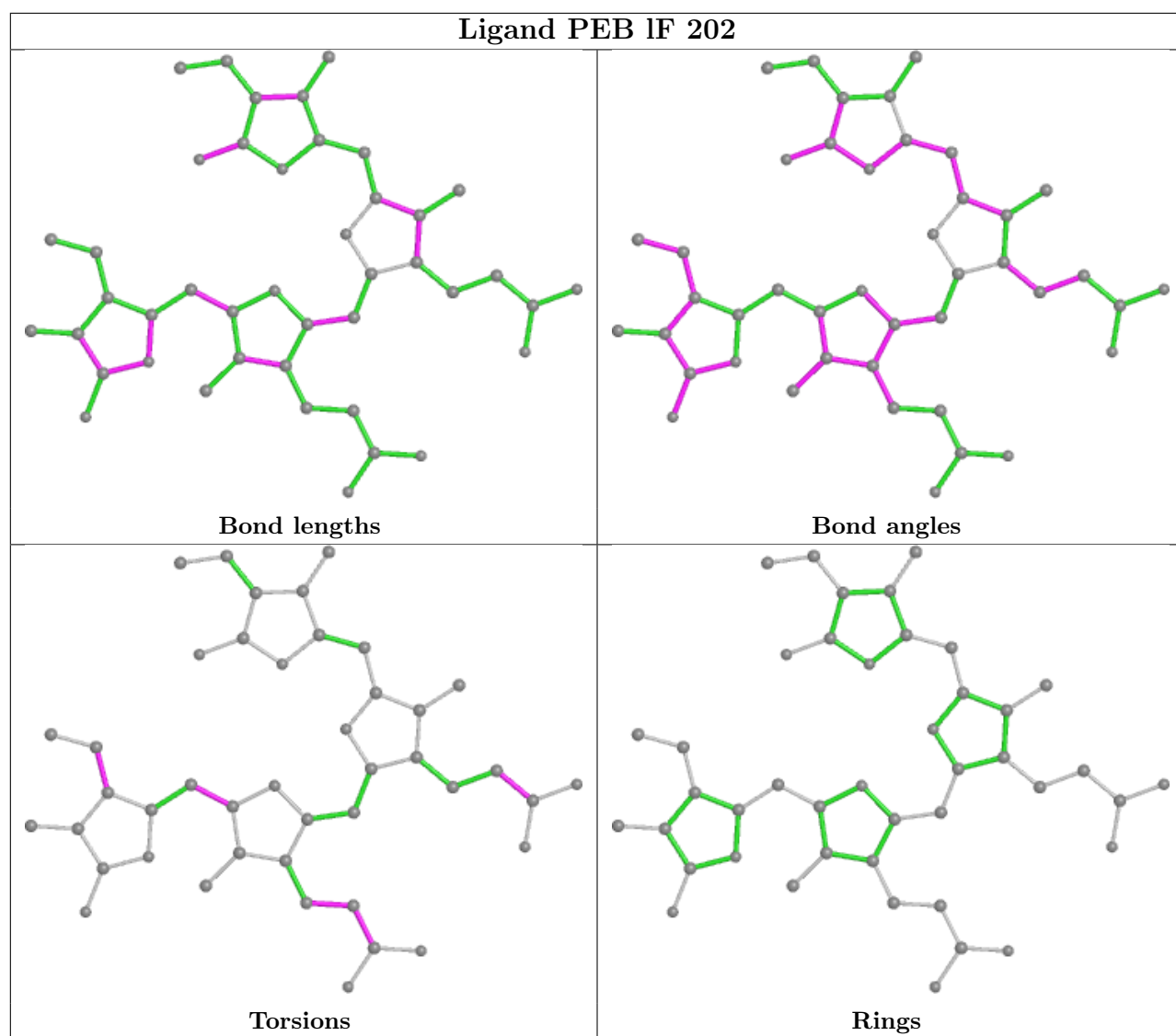
Torsions



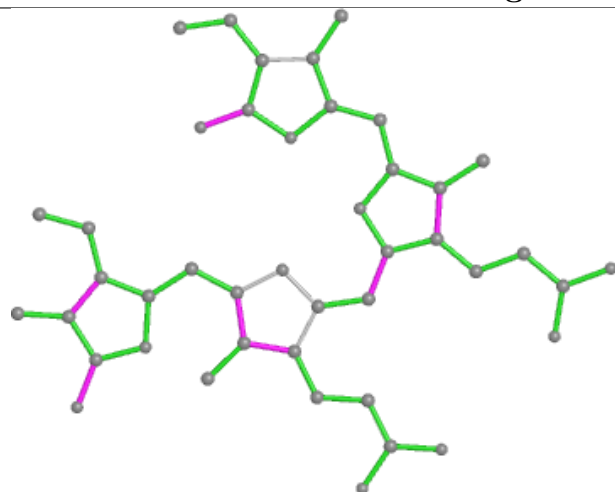
Rings



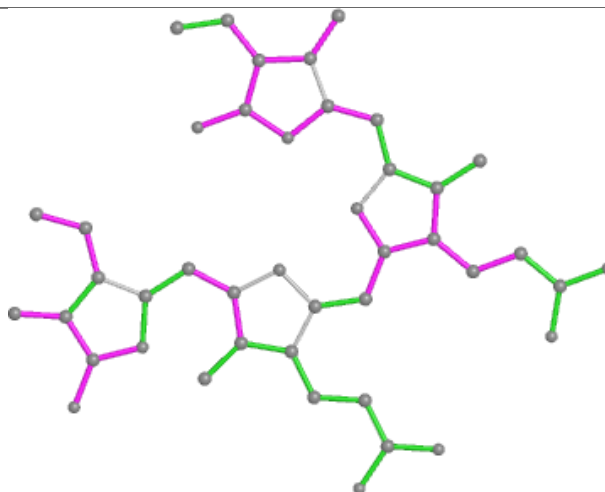




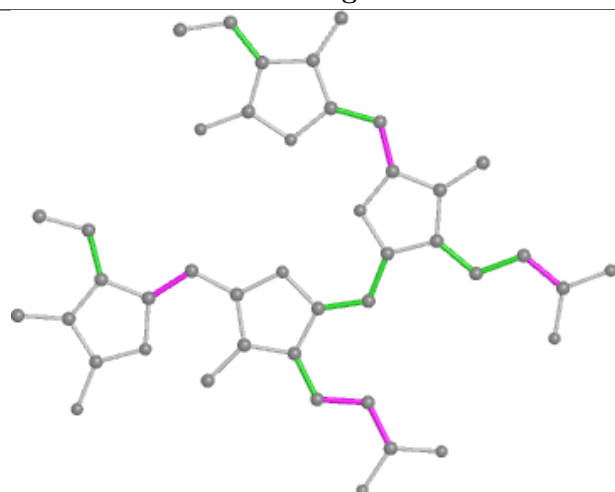
Ligand PUB A9 303



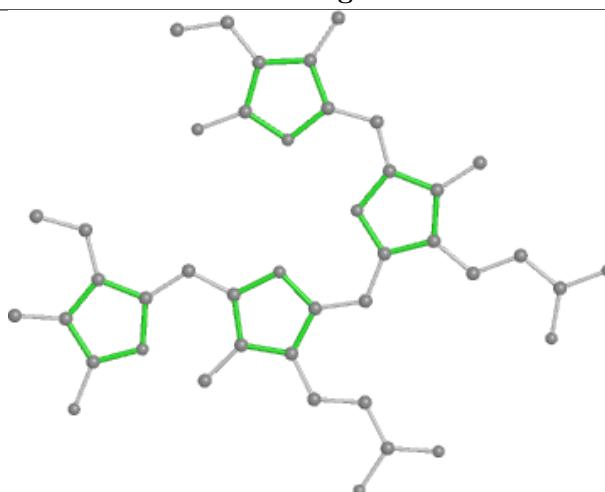
Bond lengths



Bond angles

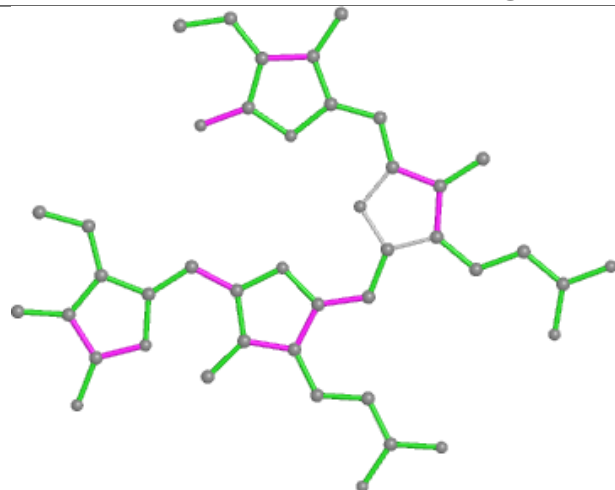


Torsions

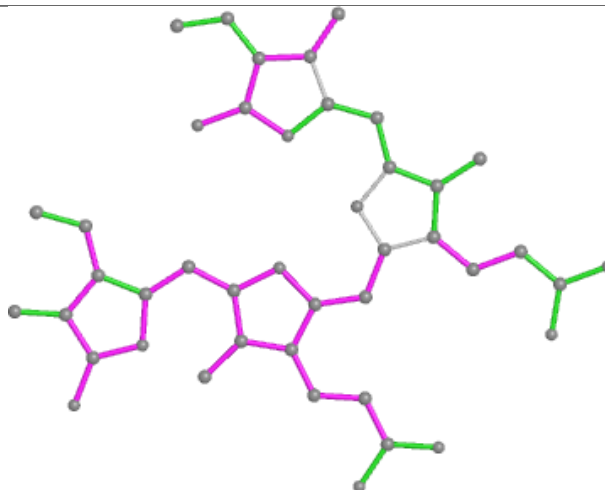


Rings

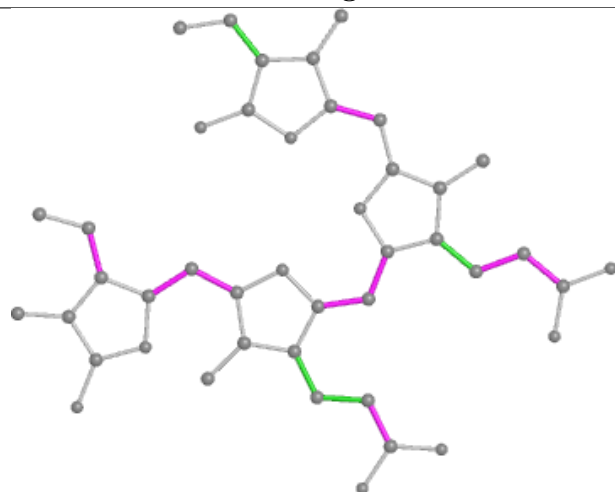
Ligand PEB GN 202



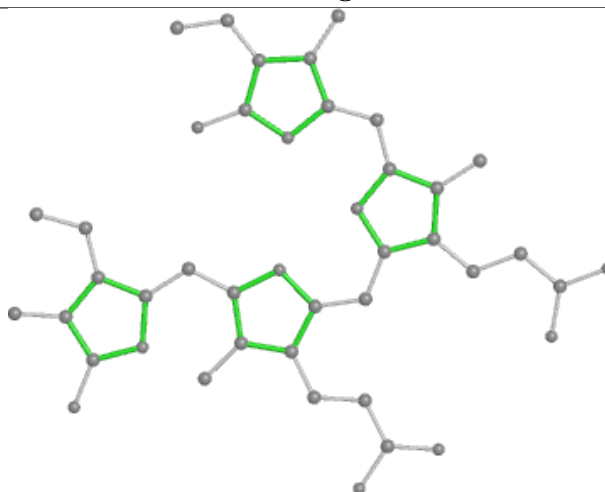
Bond lengths



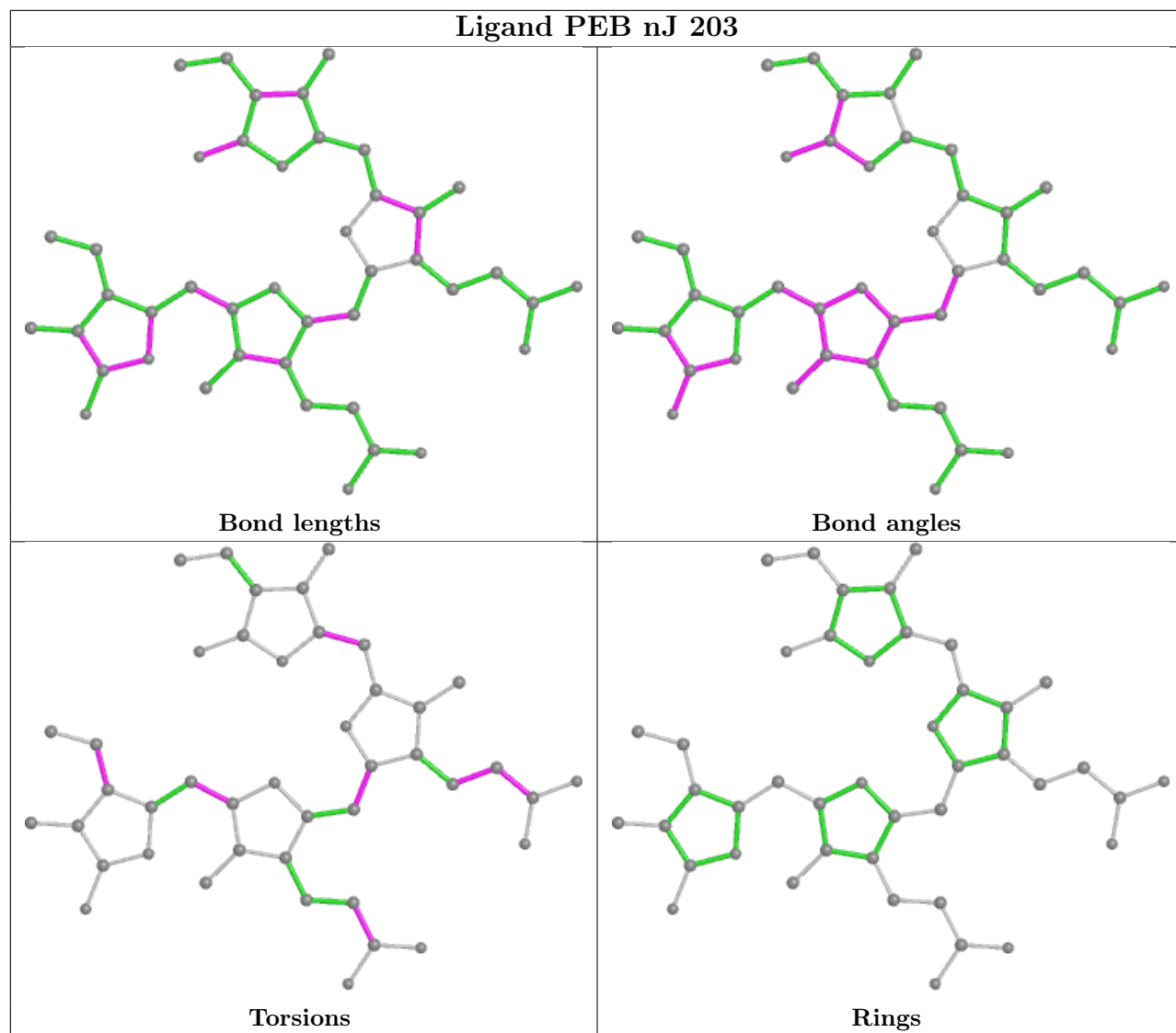
Bond angles



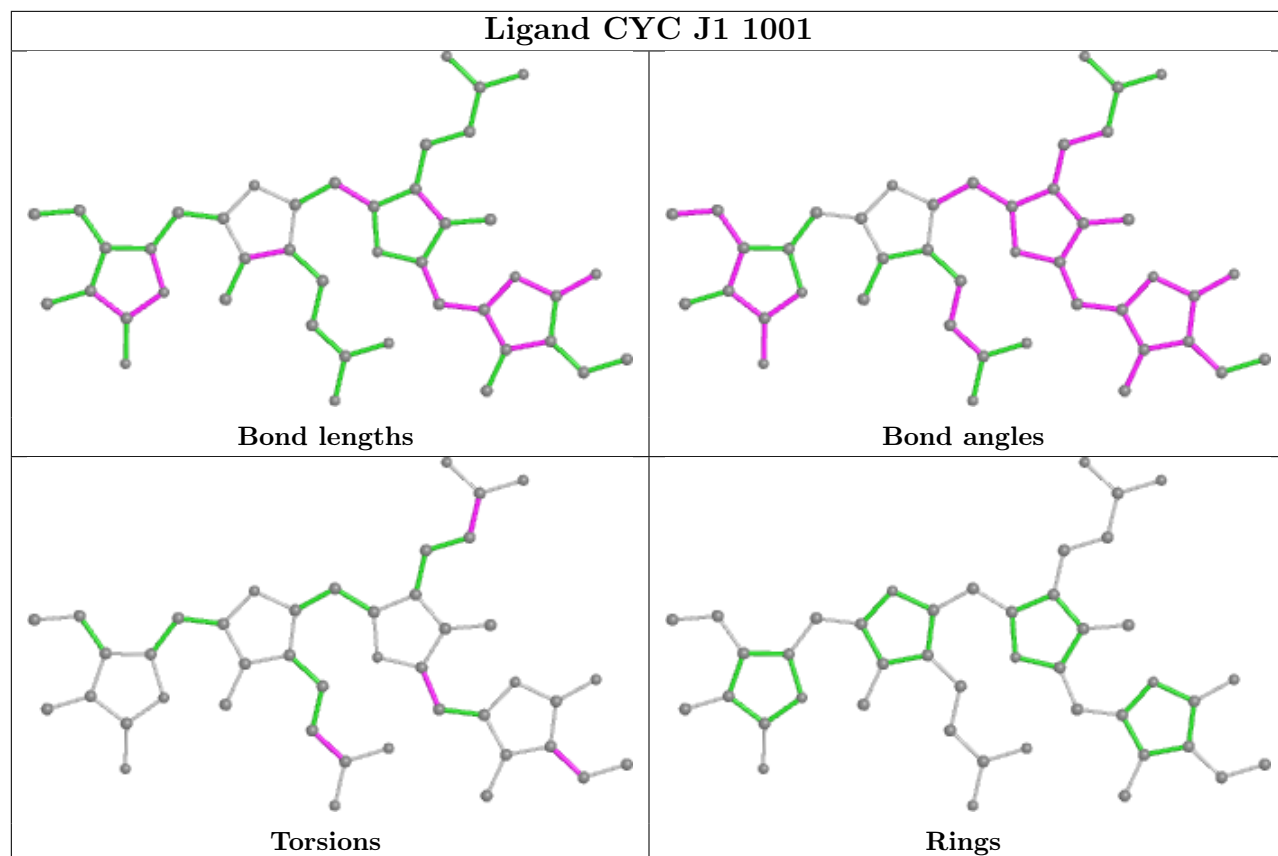
Torsions



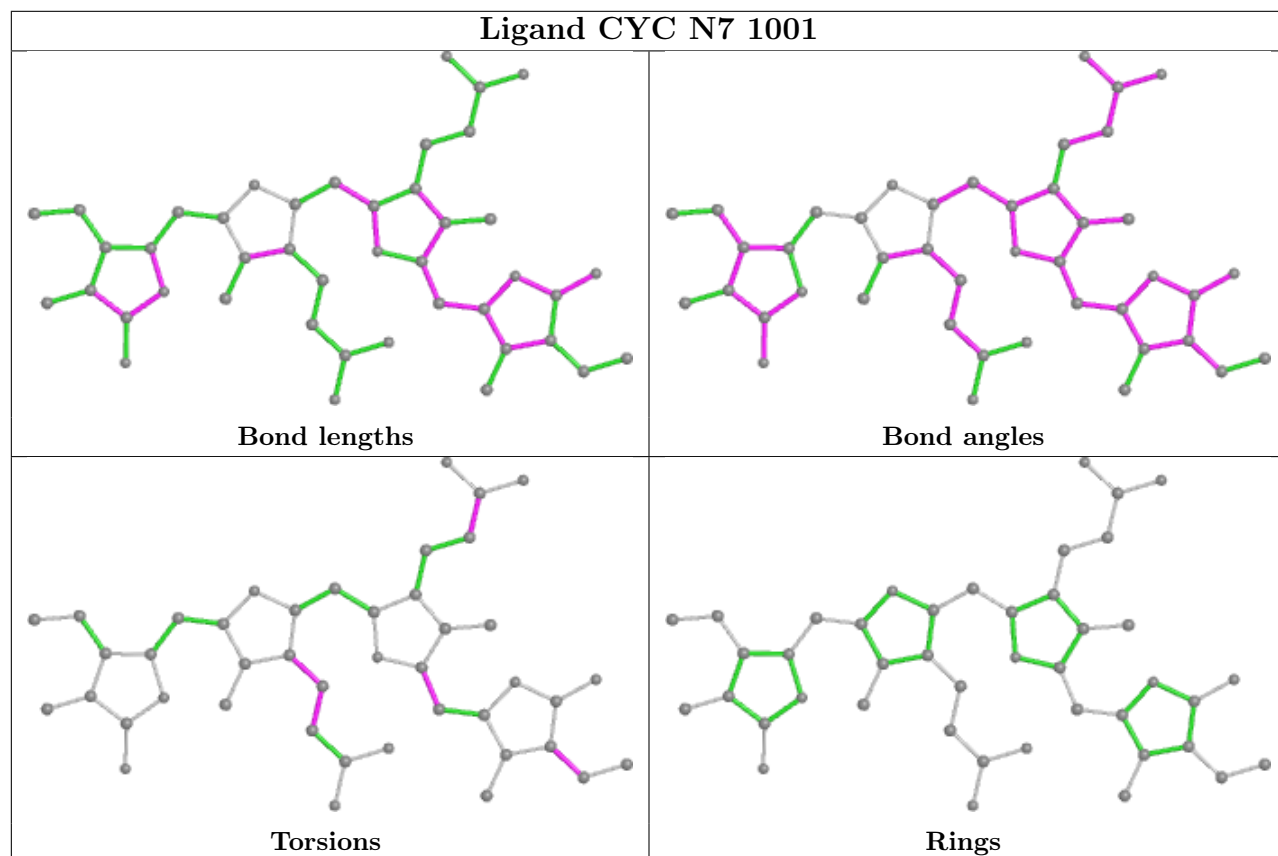
Rings

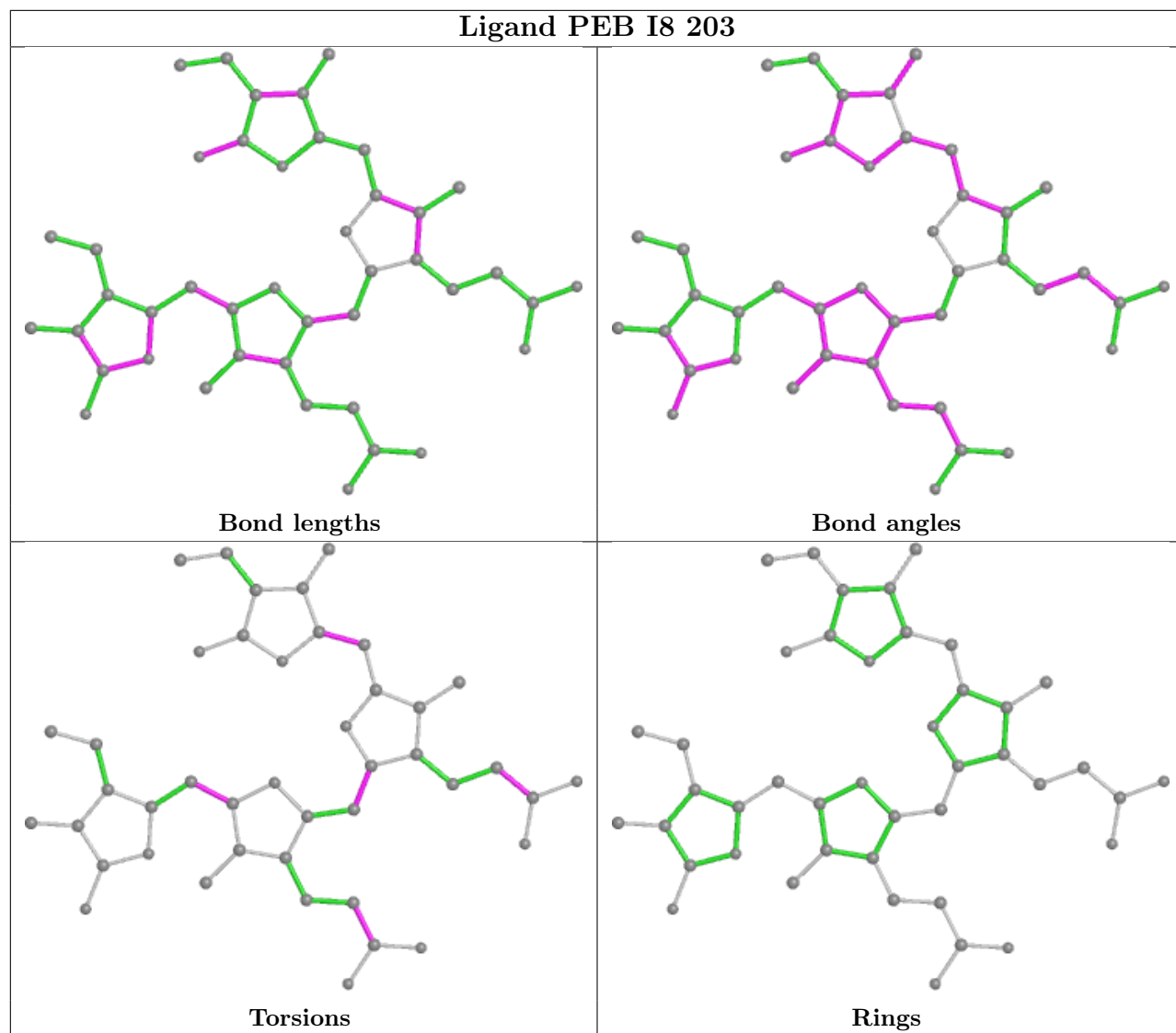


Ligand CYC J1 1001

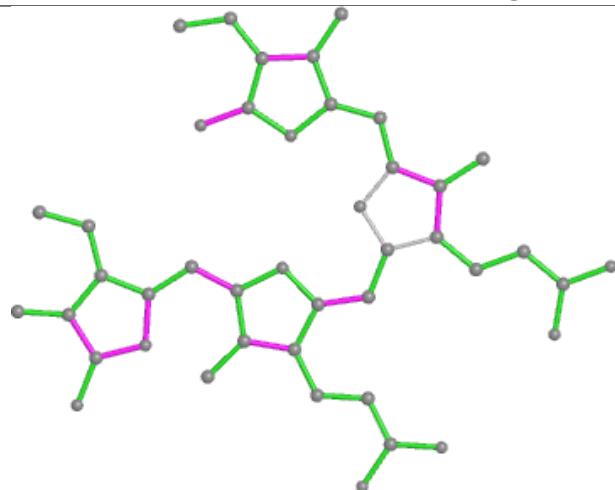


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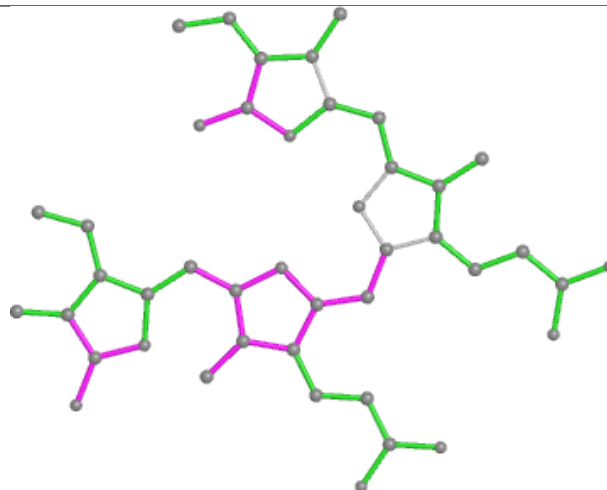




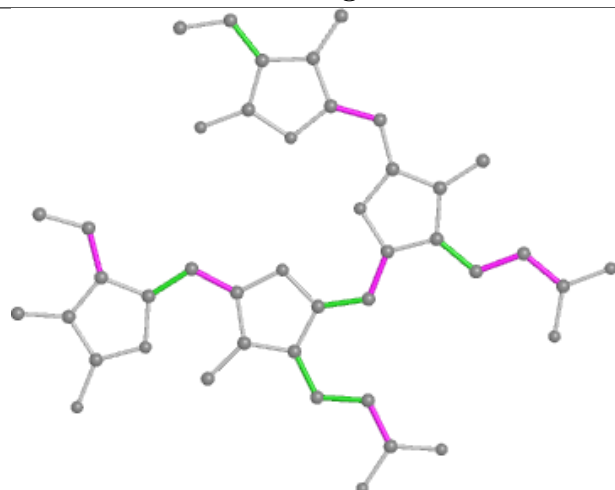
Ligand PEB DL 202



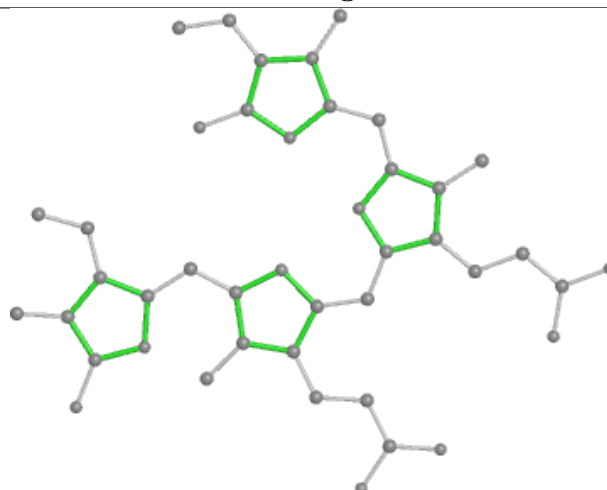
Bond lengths



Bond angles

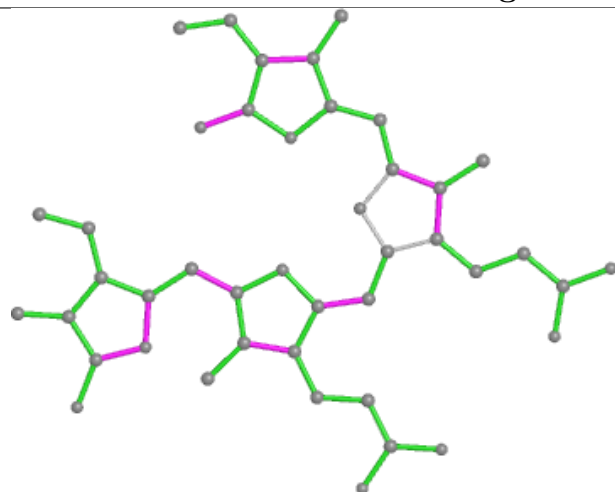


Torsions

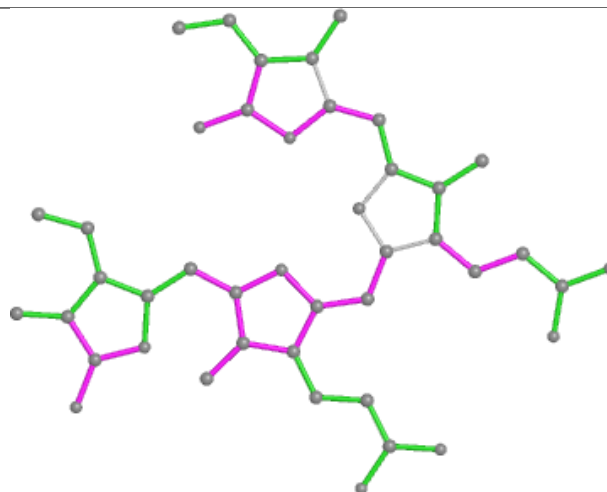


Rings

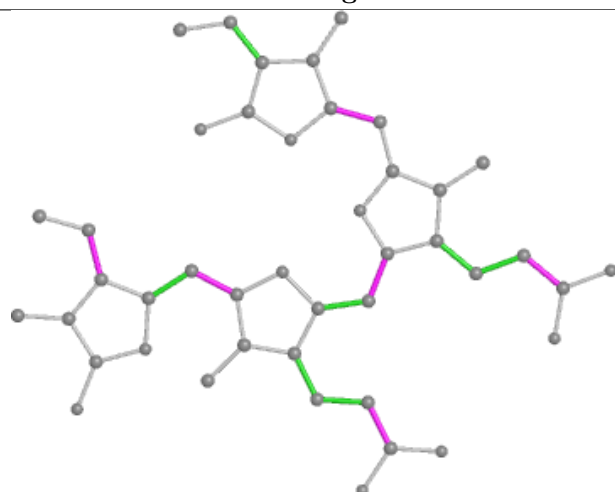
Ligand PEB MA 401



Bond lengths



Bond angles

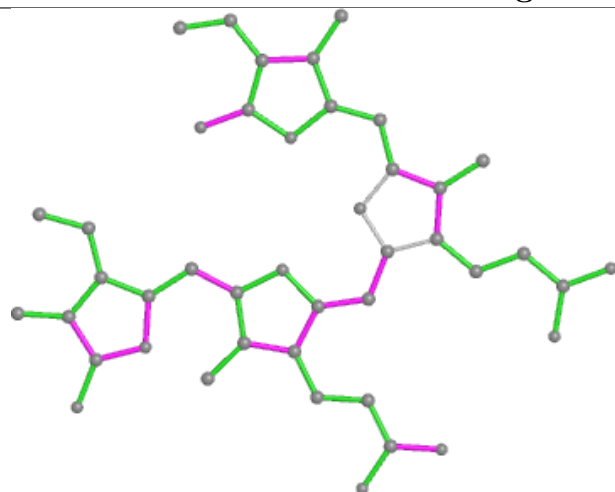


Torsions

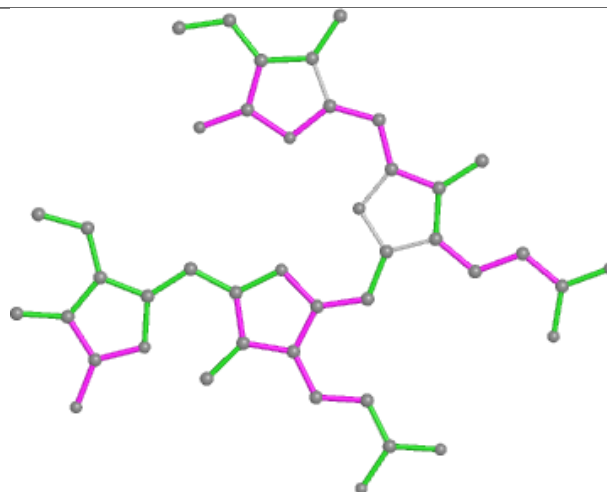


Rings

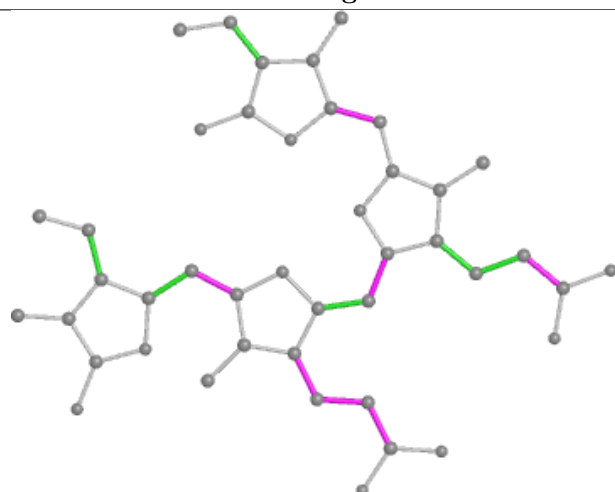
Ligand PEB i9 203



Bond lengths



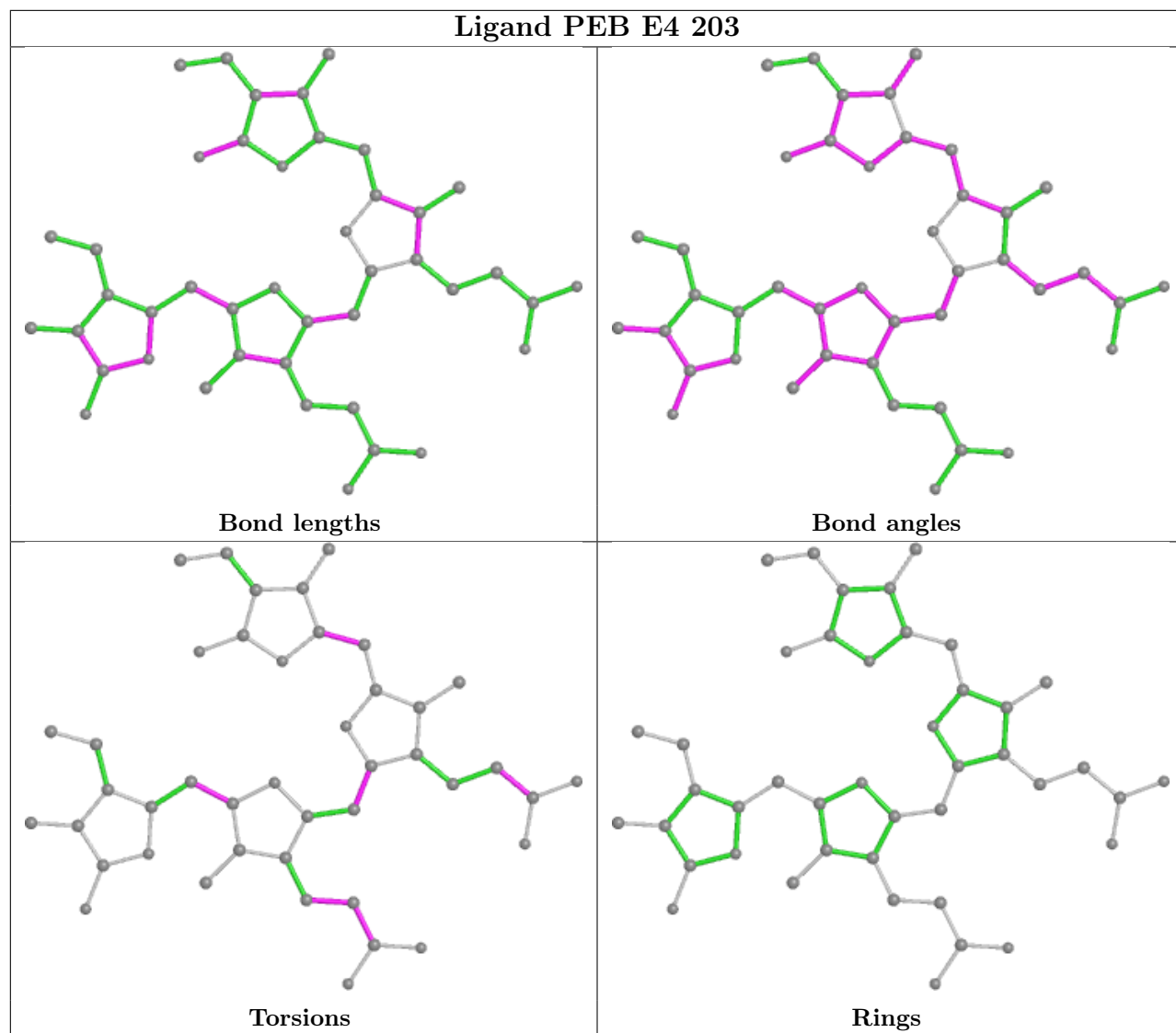
Bond angles



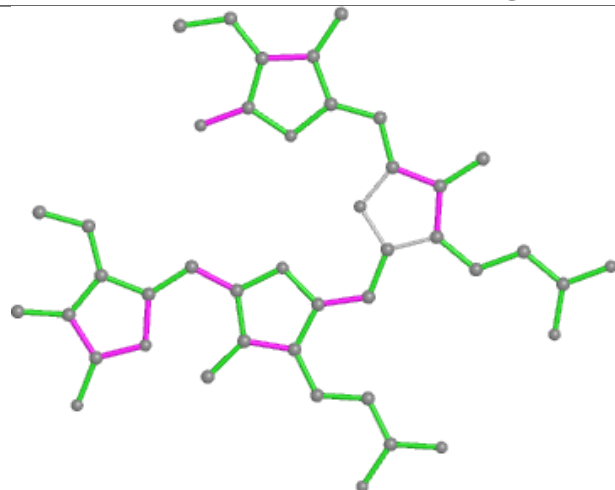
Torsions



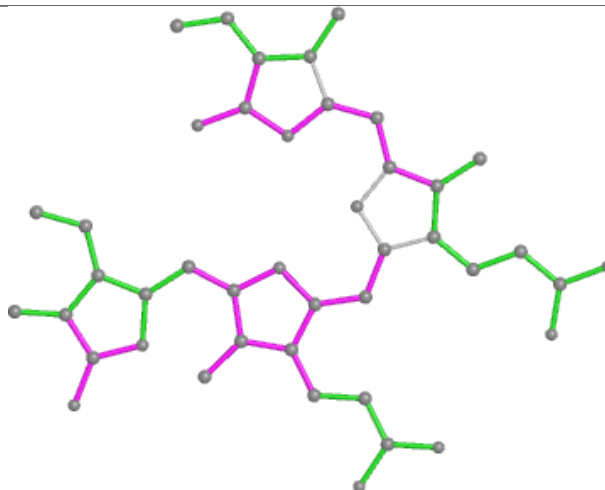
Rings



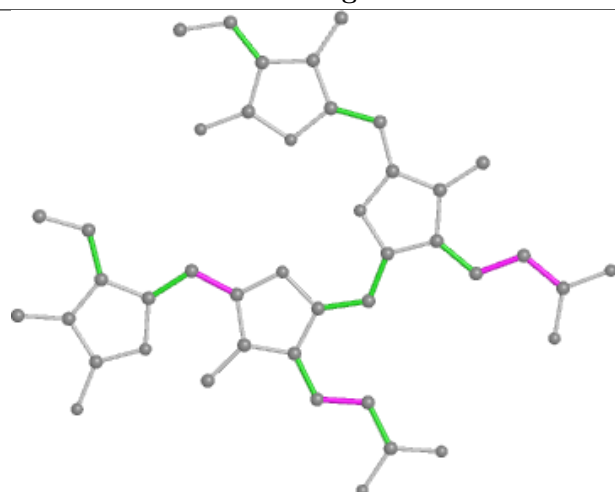
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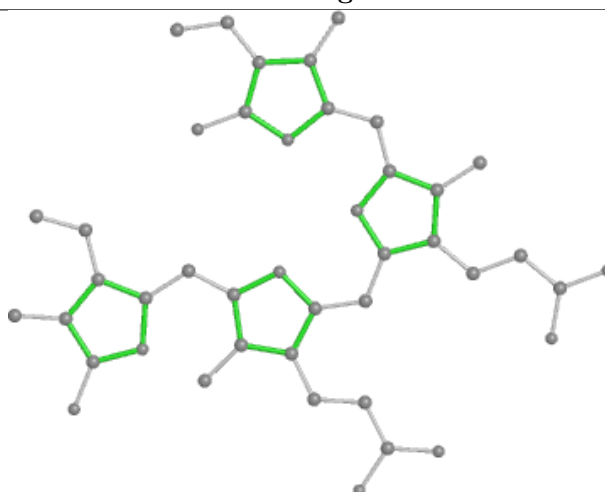
Bond lengths



Bond angles

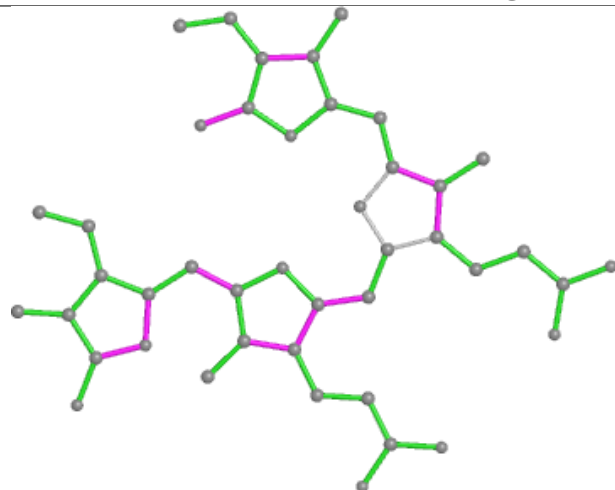


Torsions

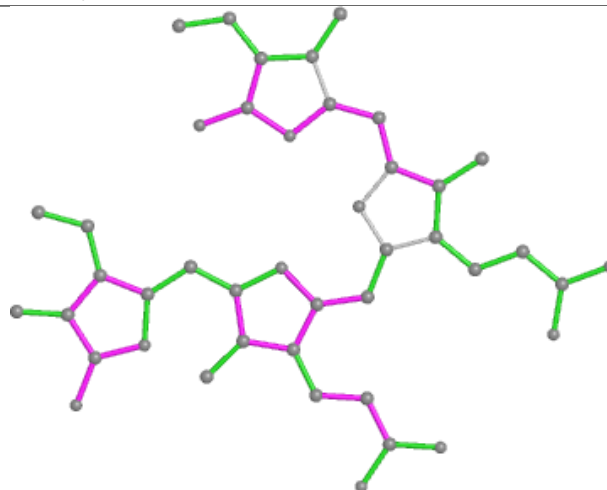


Rings

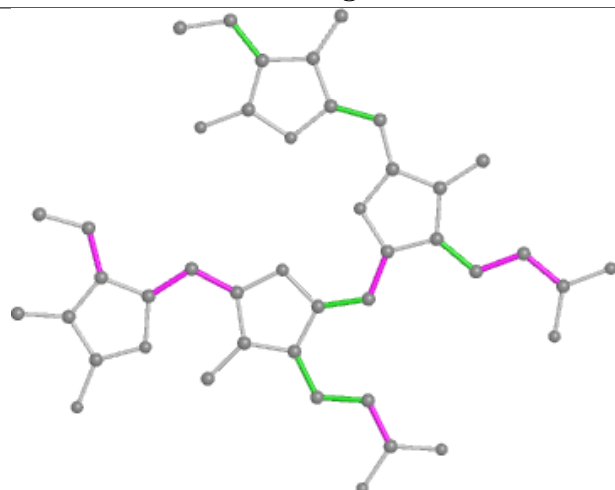
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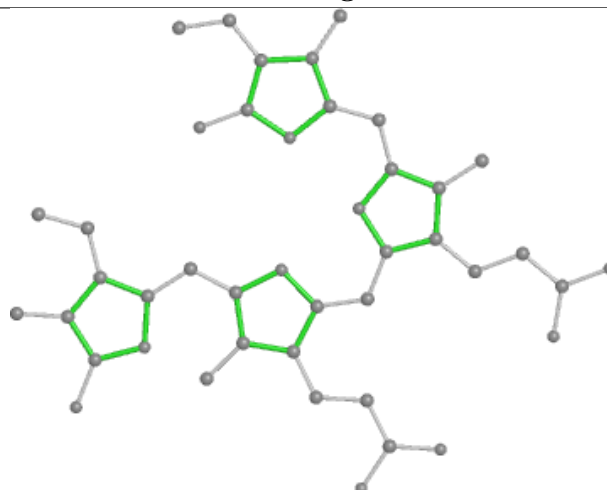
Bond lengths



Bond angles

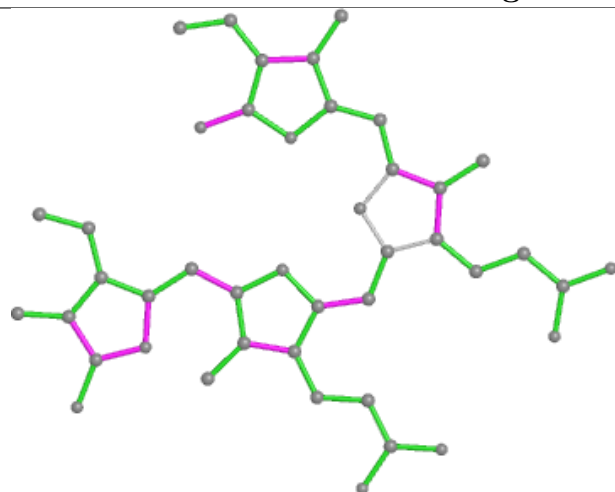


Torsions

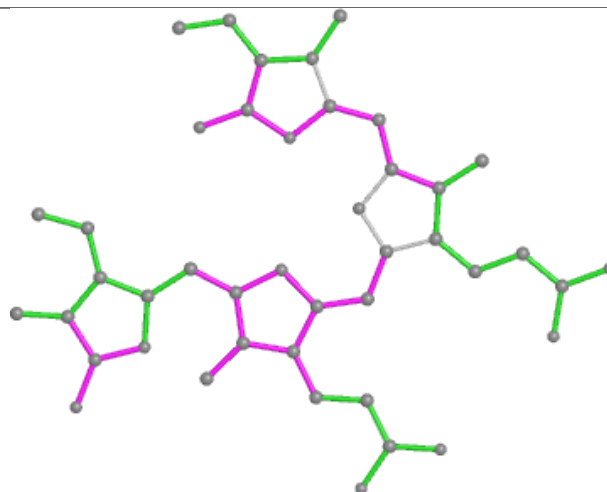


Rings

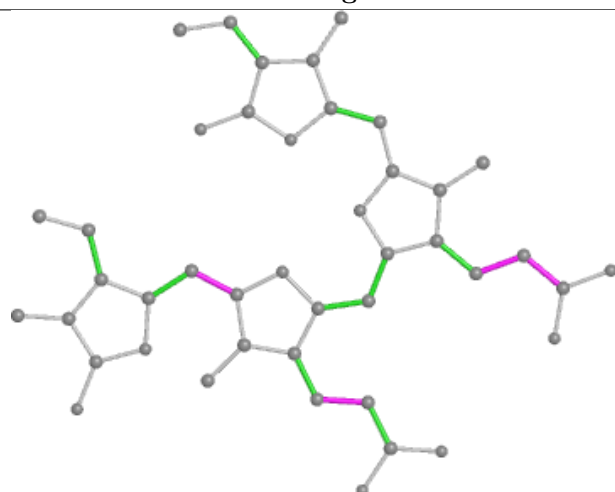
Ligand PEB RK 202



Bond lengths



Bond angles

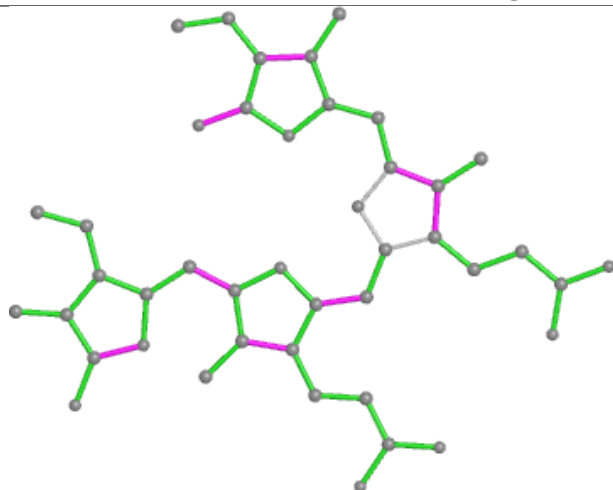


Torsions

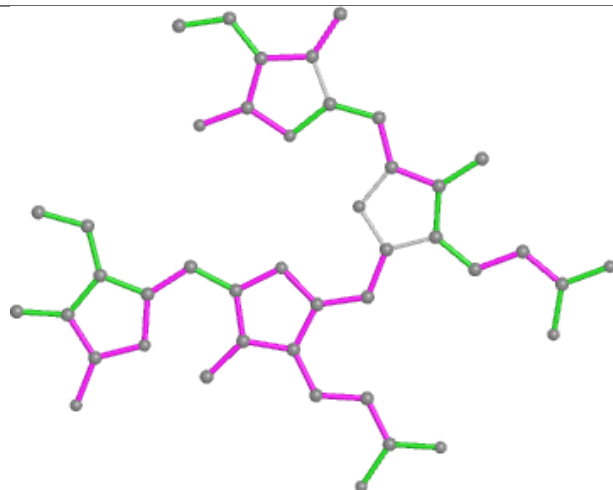


Rings

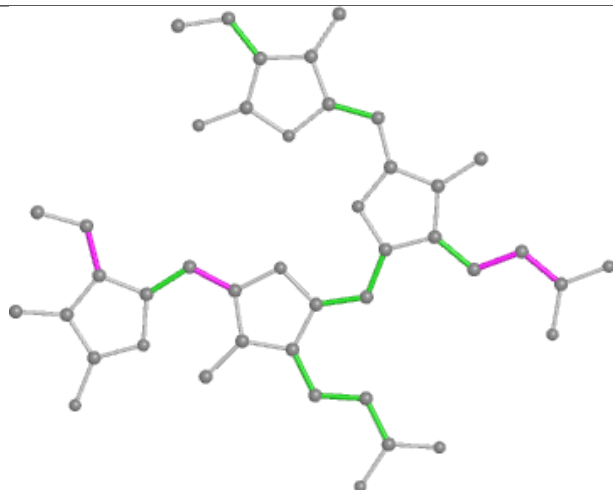
Ligand PEB V2 202



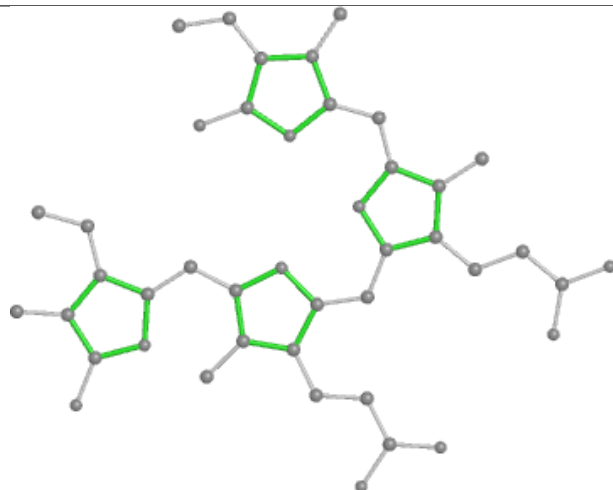
Bond lengths



Bond angles

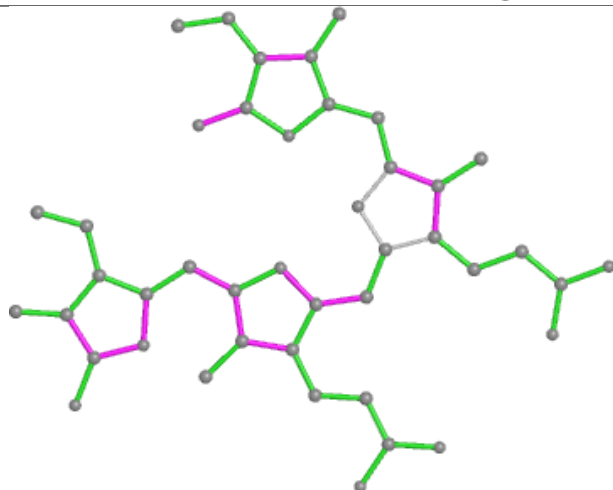


Torsions

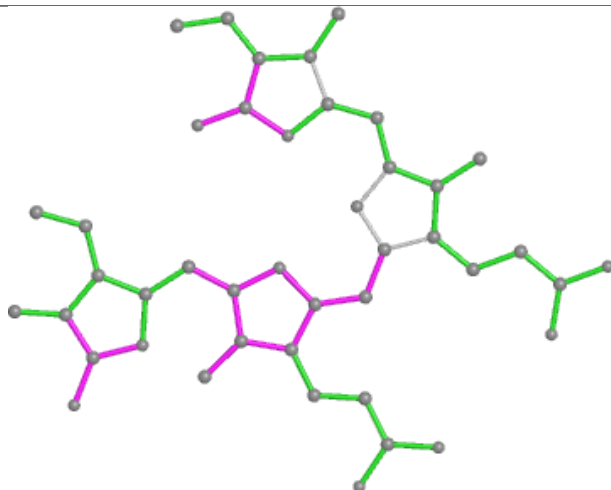


Rings

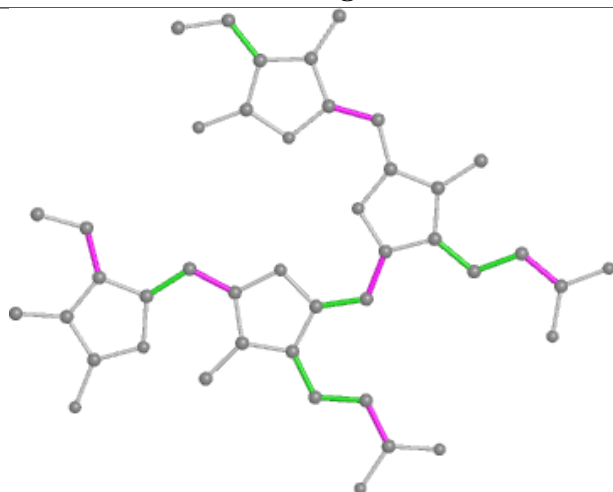
Ligand PEB MN 404



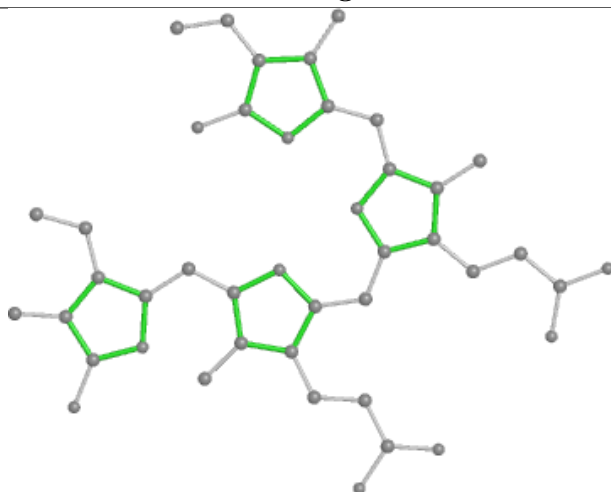
Bond lengths



Bond angles

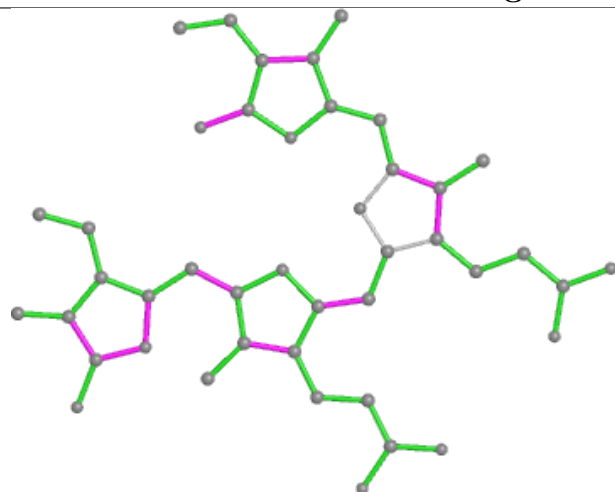


Torsions

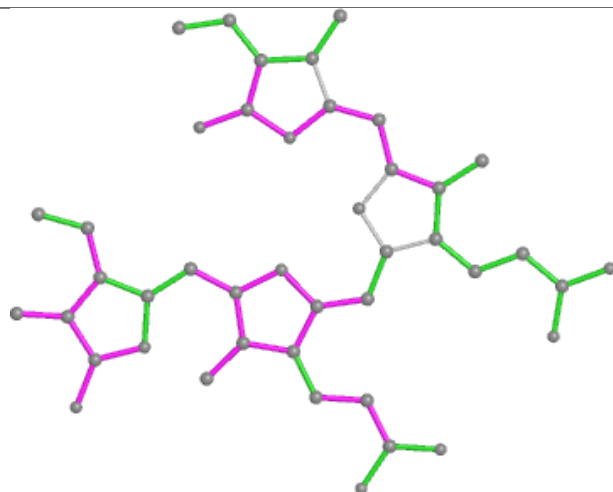


Rings

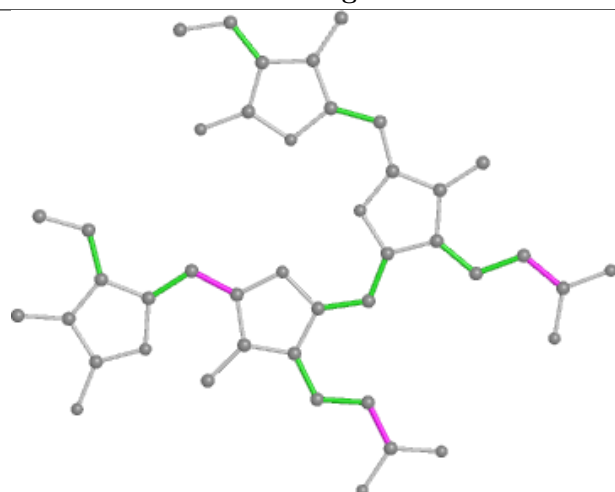
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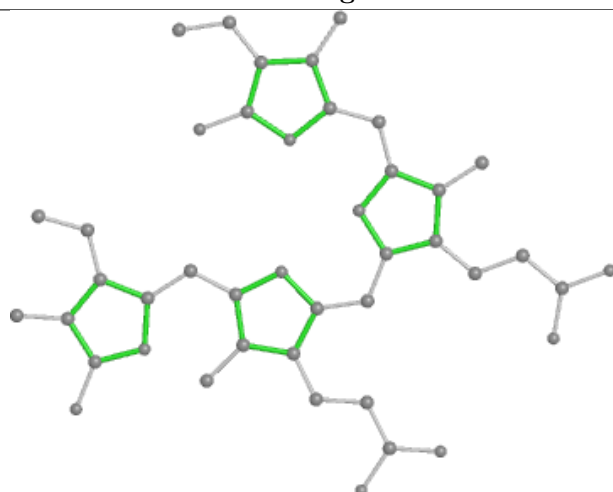
Bond lengths



Bond angles

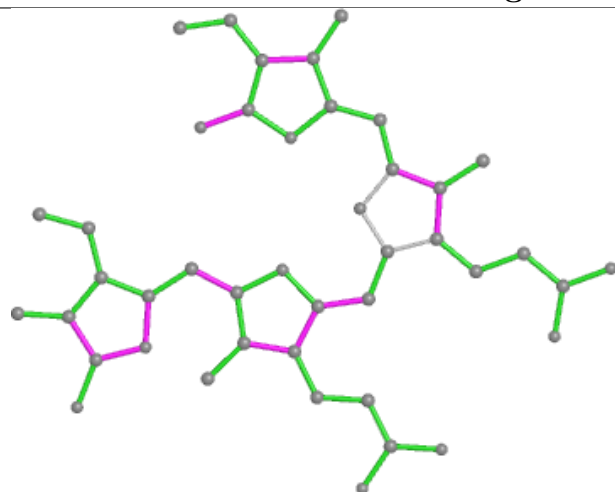


Torsions

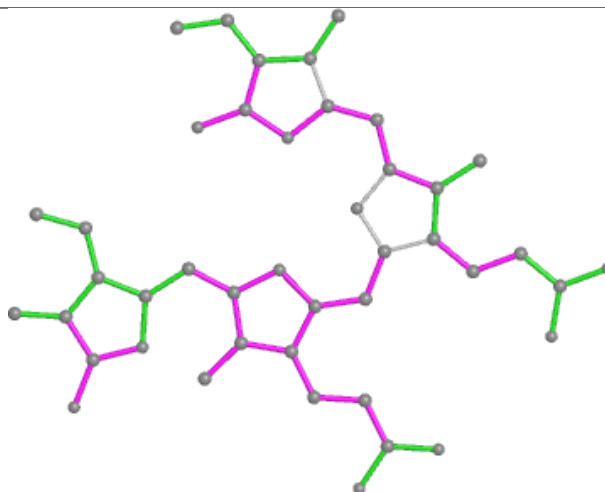


Rings

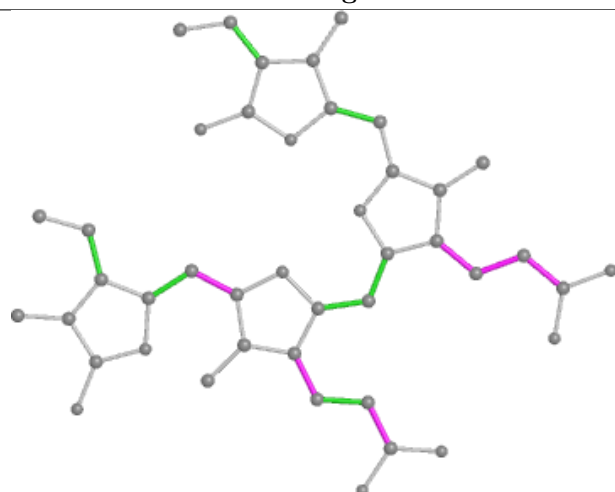
Ligand PEB VF 201



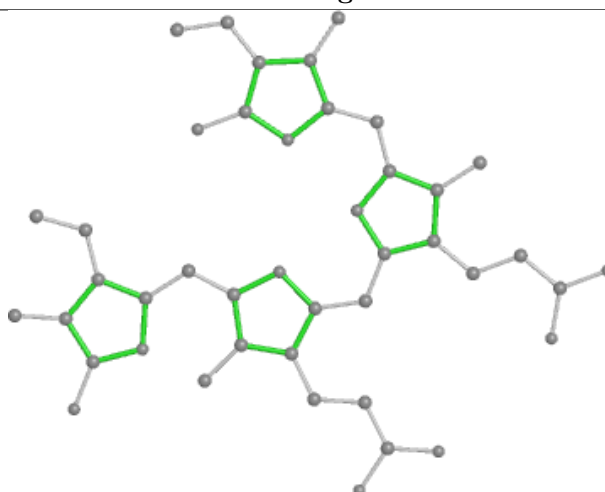
Bond lengths



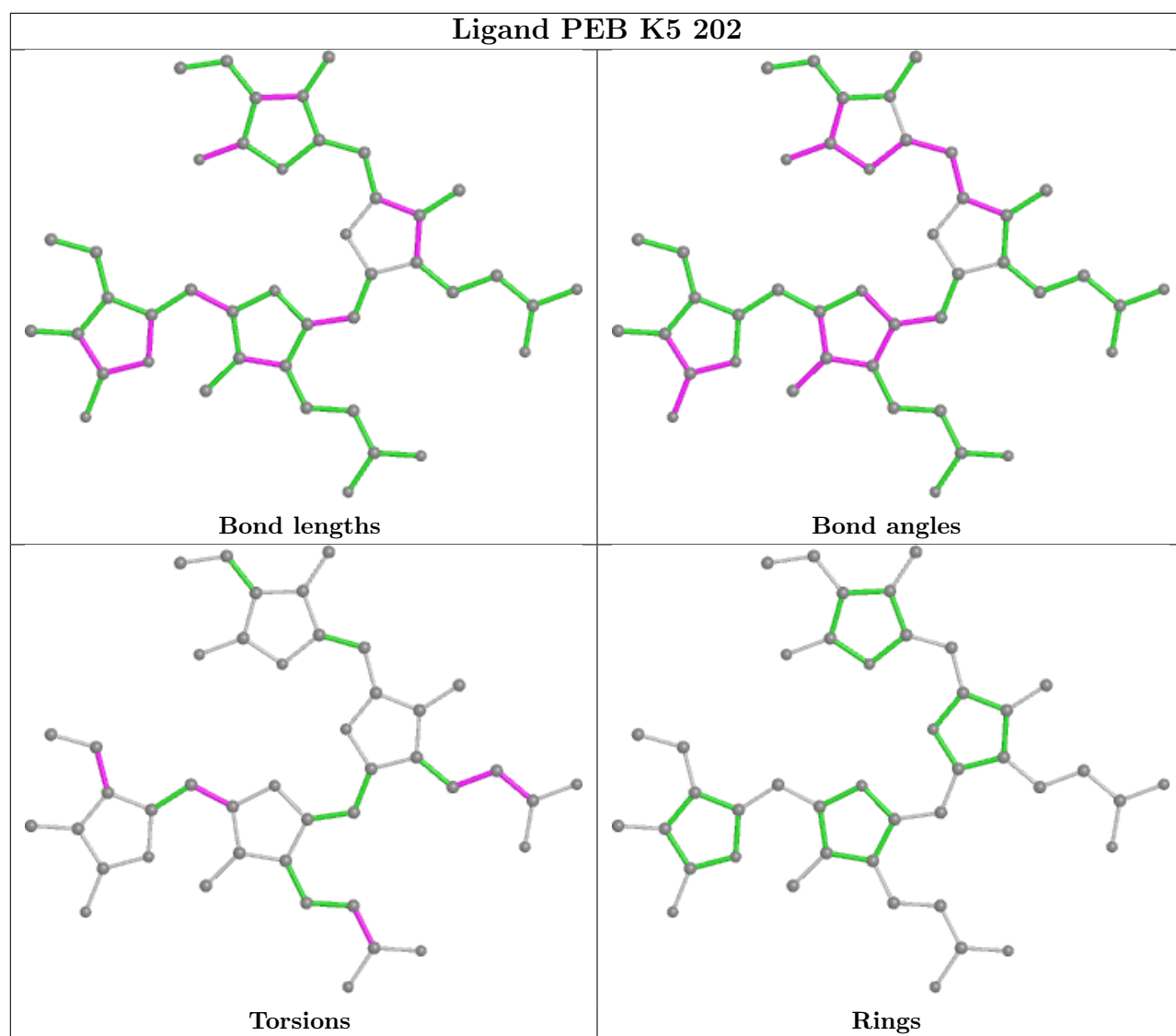
Bond angles

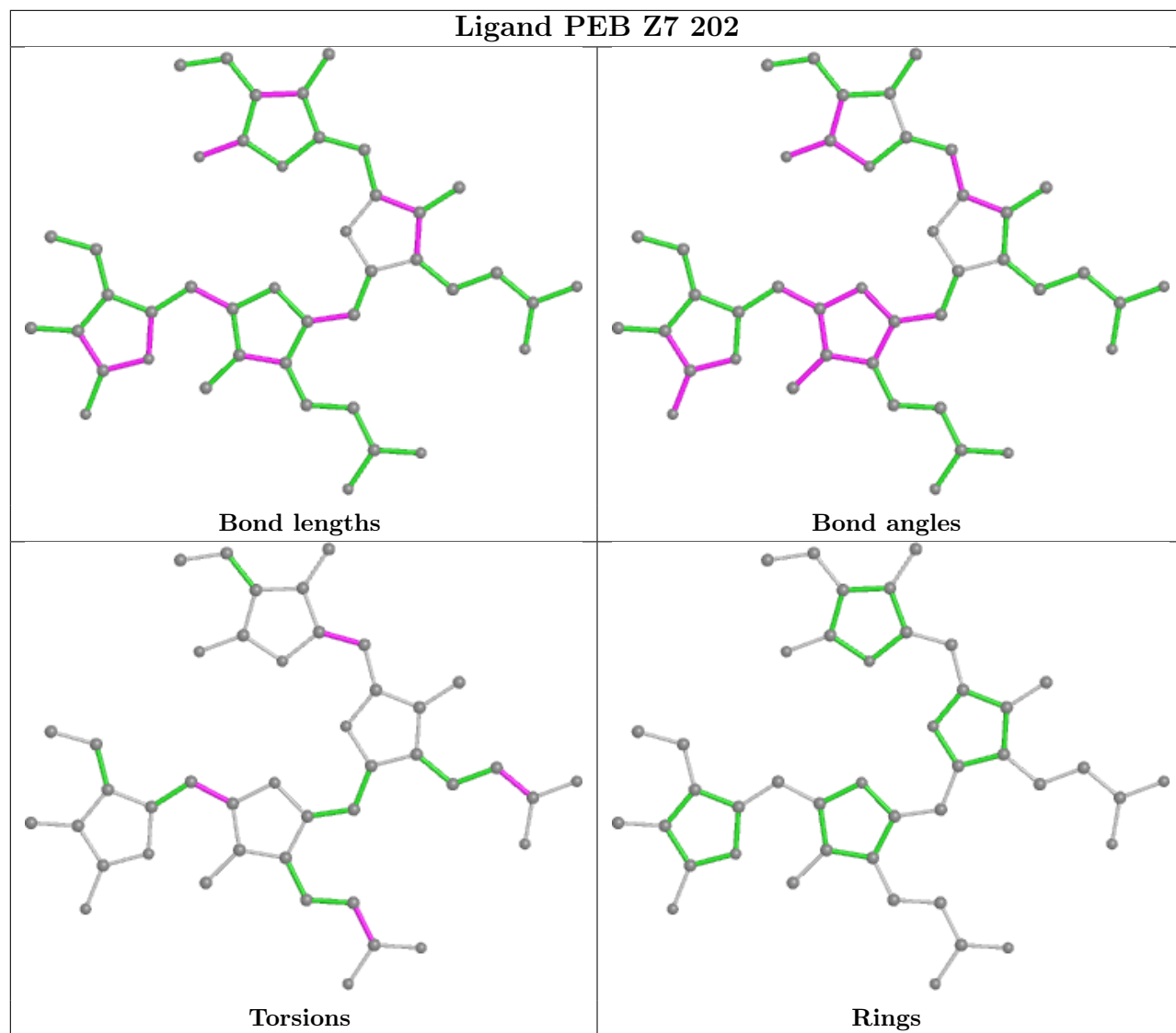


Torsions

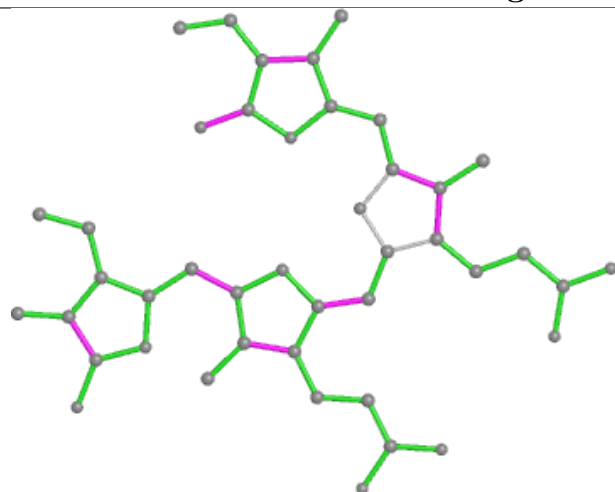


Rings

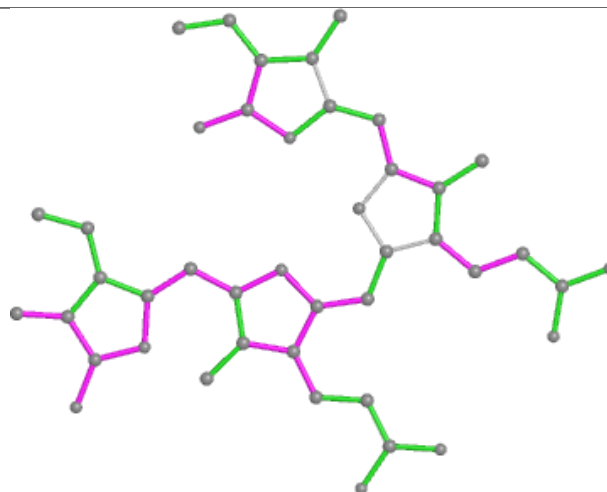




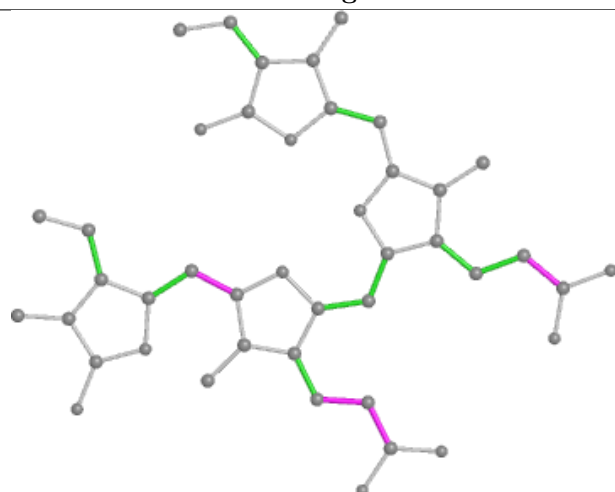
Ligand PEB VJ 201



Bond lengths



Bond angles

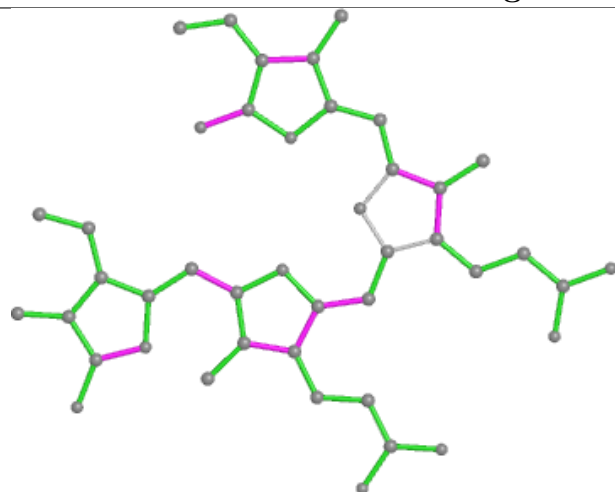


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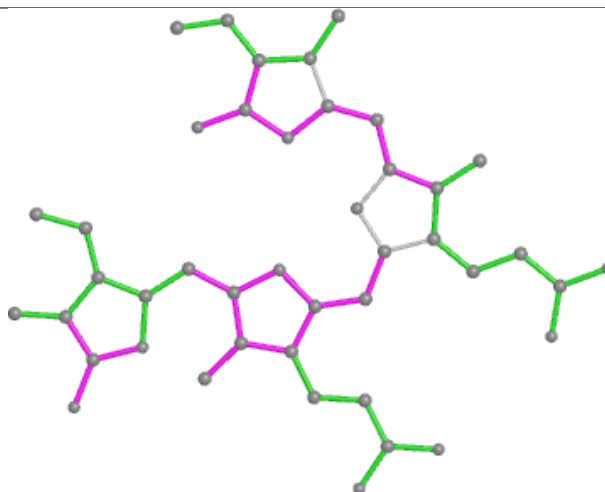


Rings

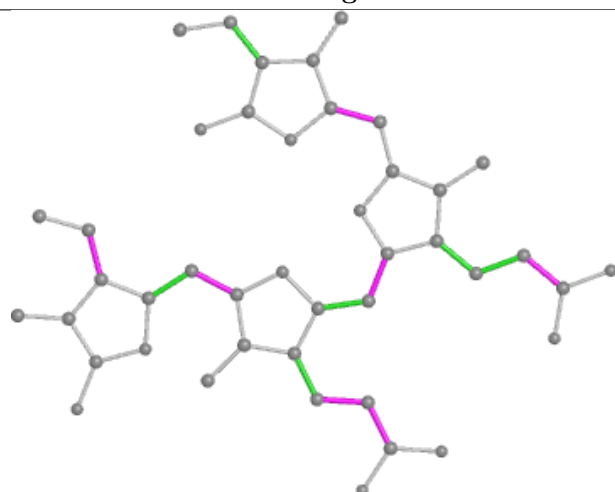
Ligand PEB M4 203



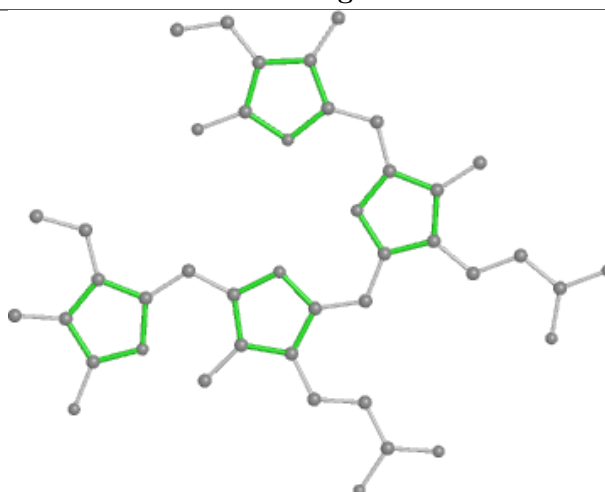
Bond lengths



Bond angles

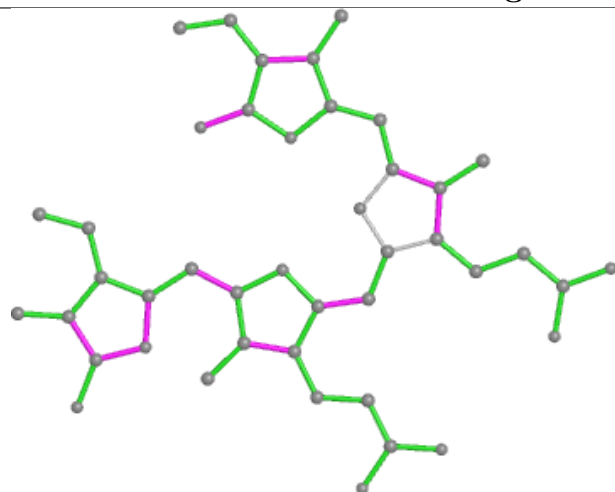


Torsions

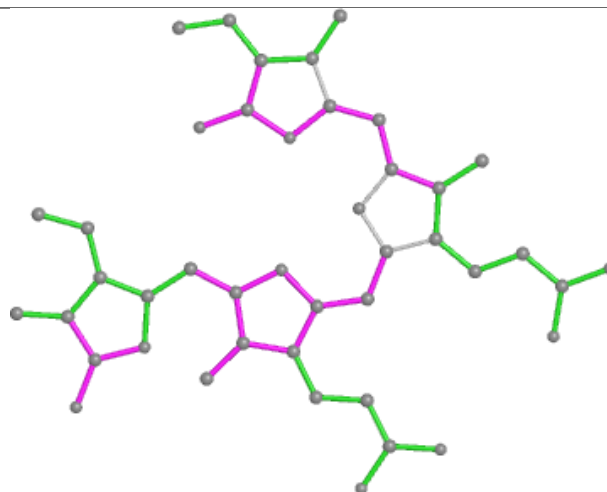


Rings

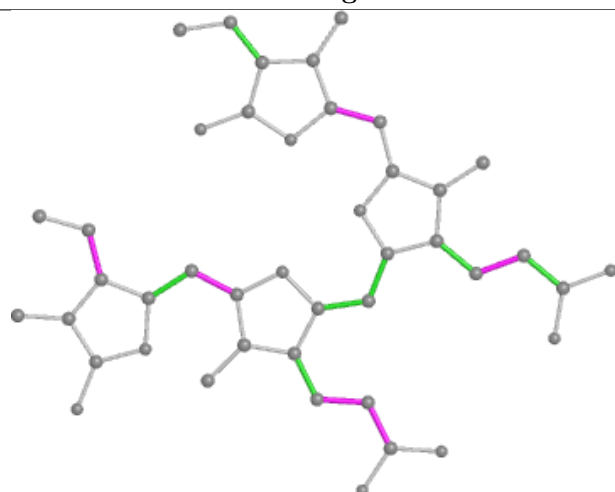
Ligand PEB AF 304



Bond lengths



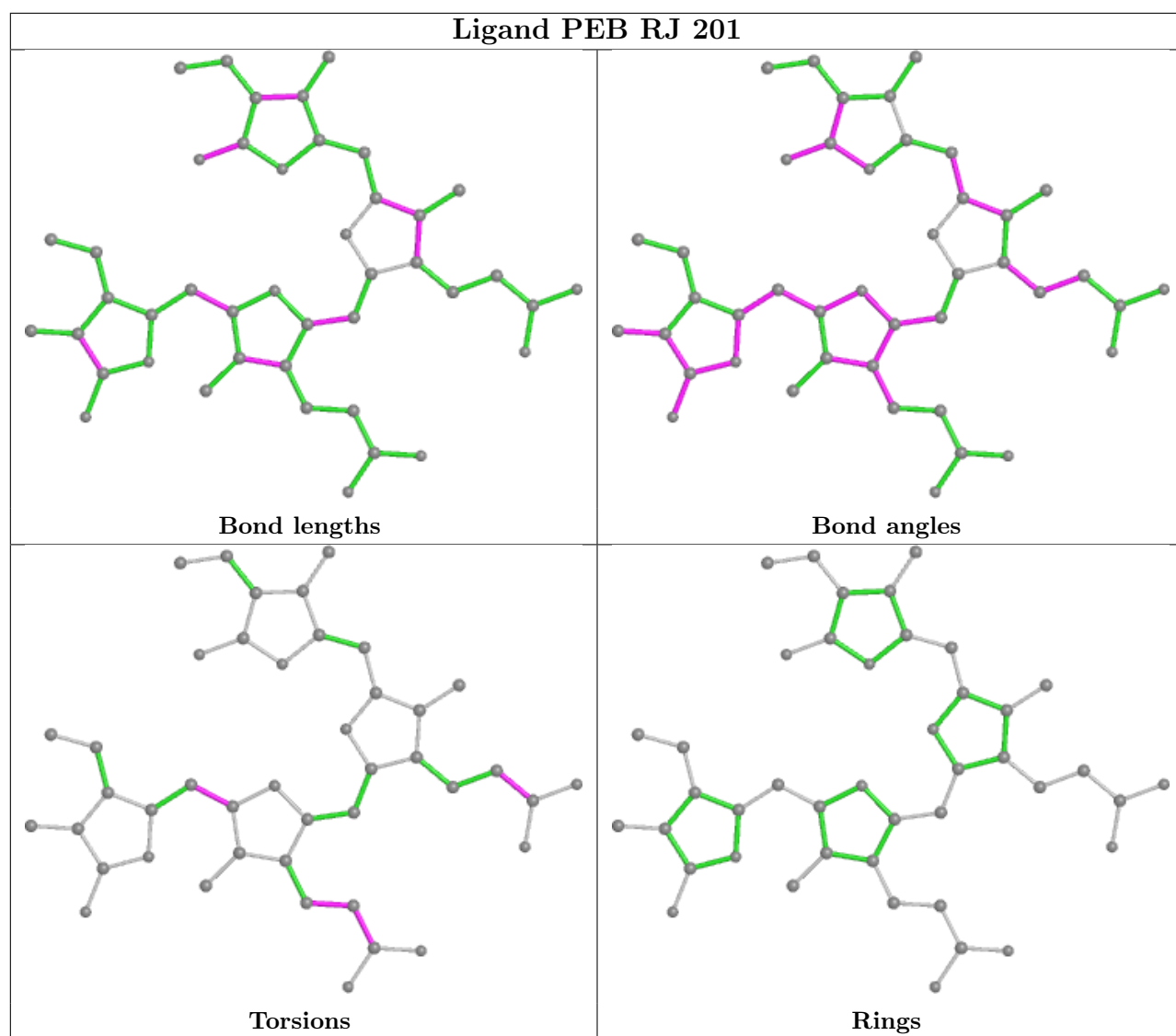
Bond angles



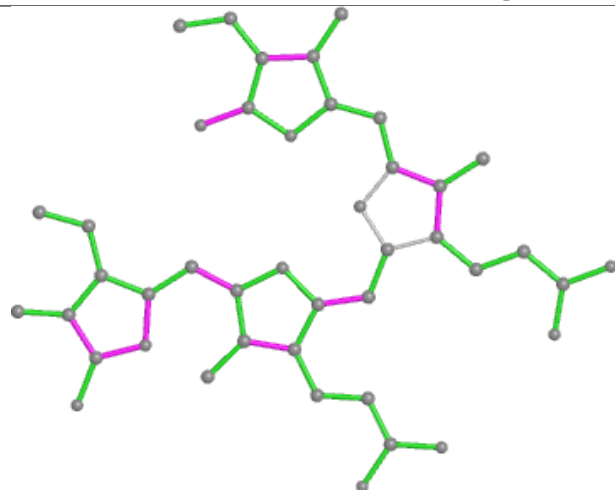
Torsions



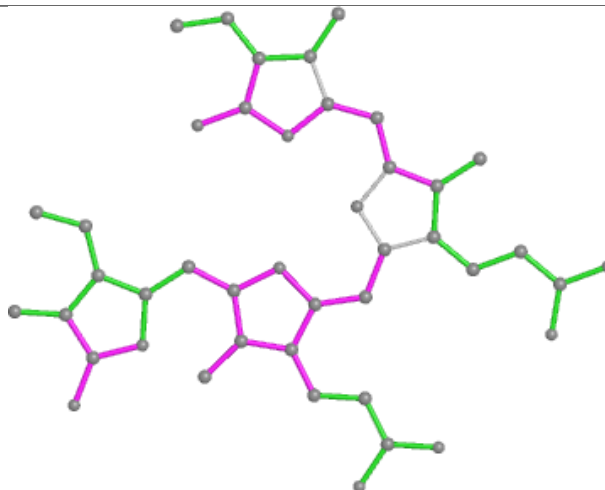
Rings



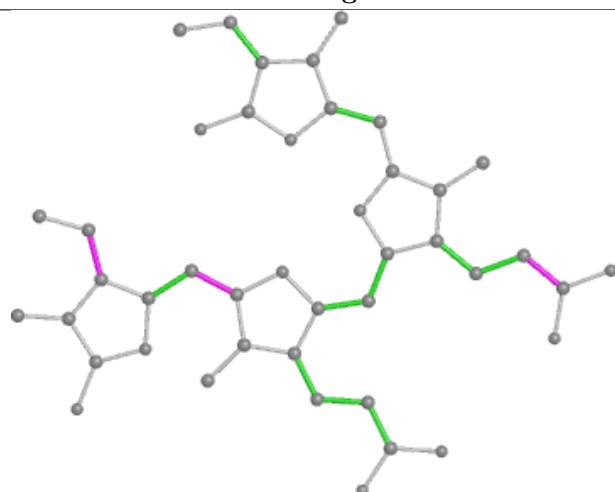
Ligand PEB mM 202



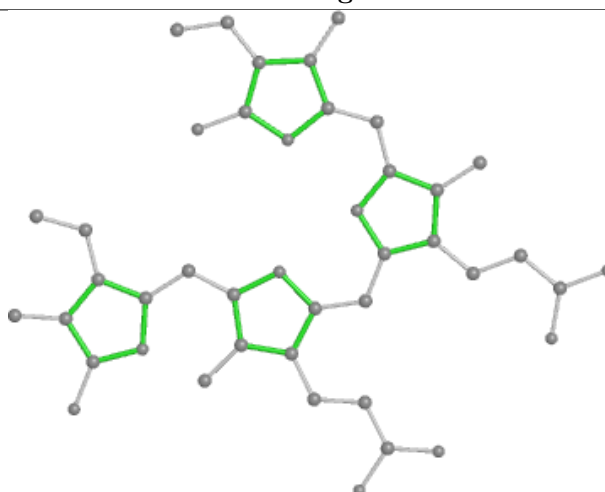
Bond lengths



Bond angles

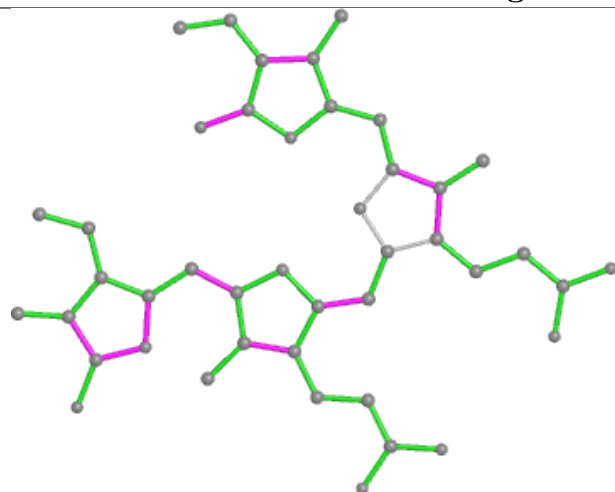


Torsions

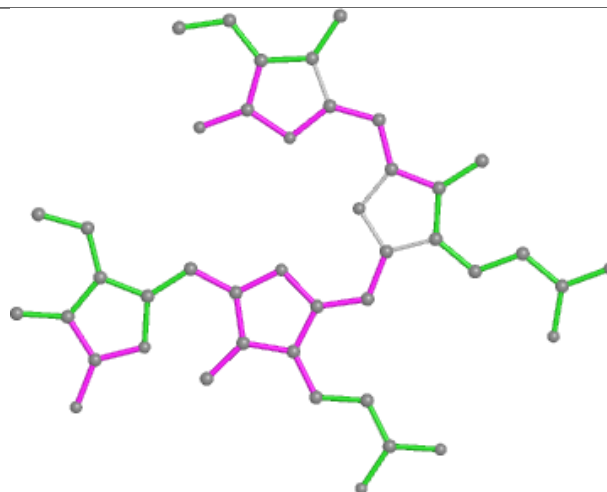


Rings

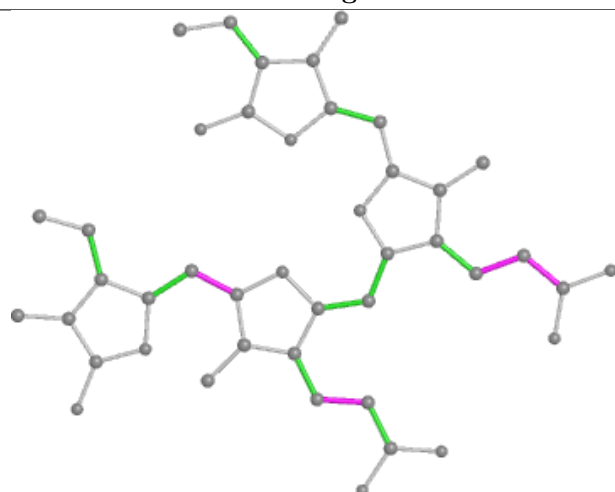
Ligand PEB U1 201



Bond lengths



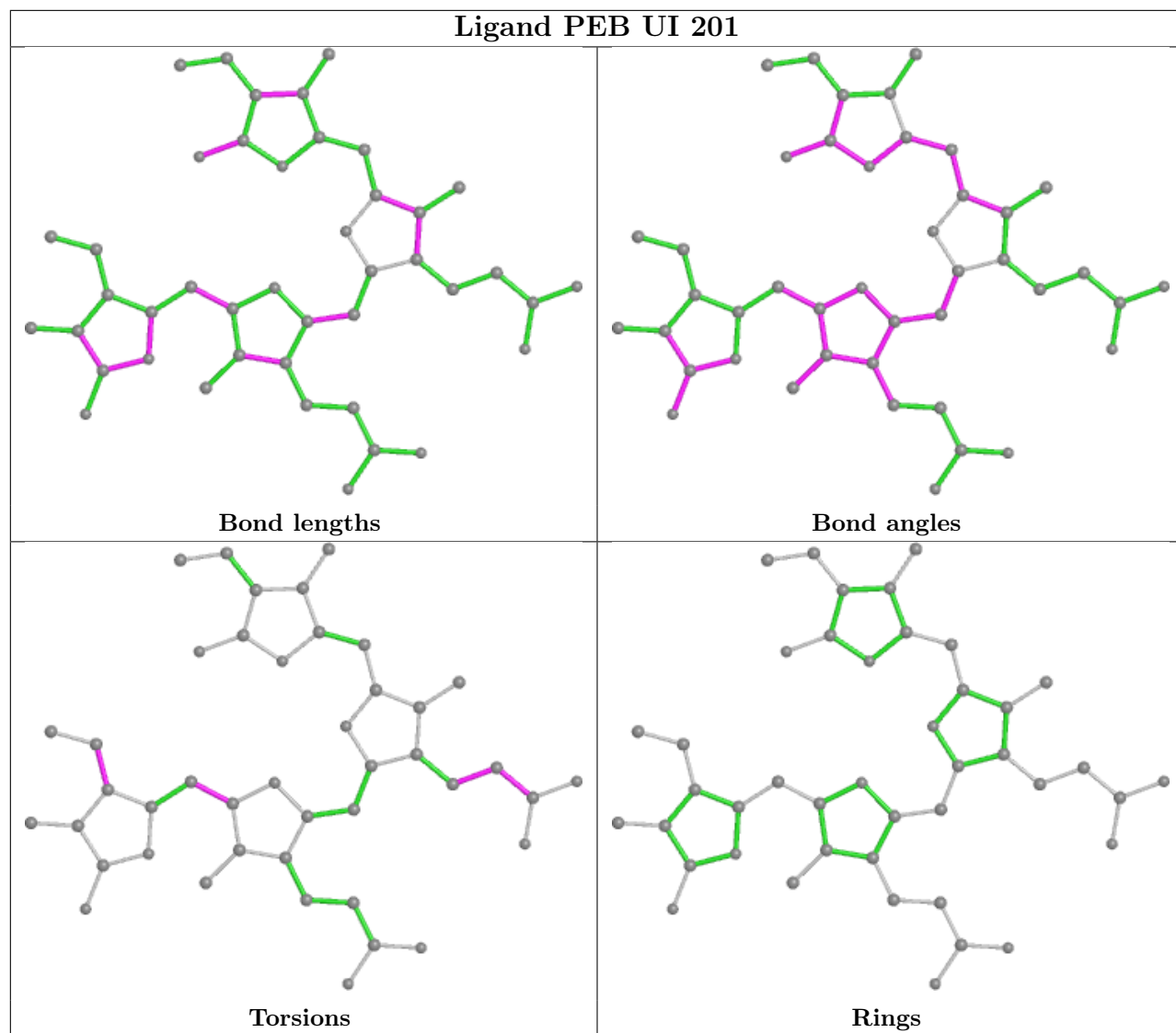
Bond angles



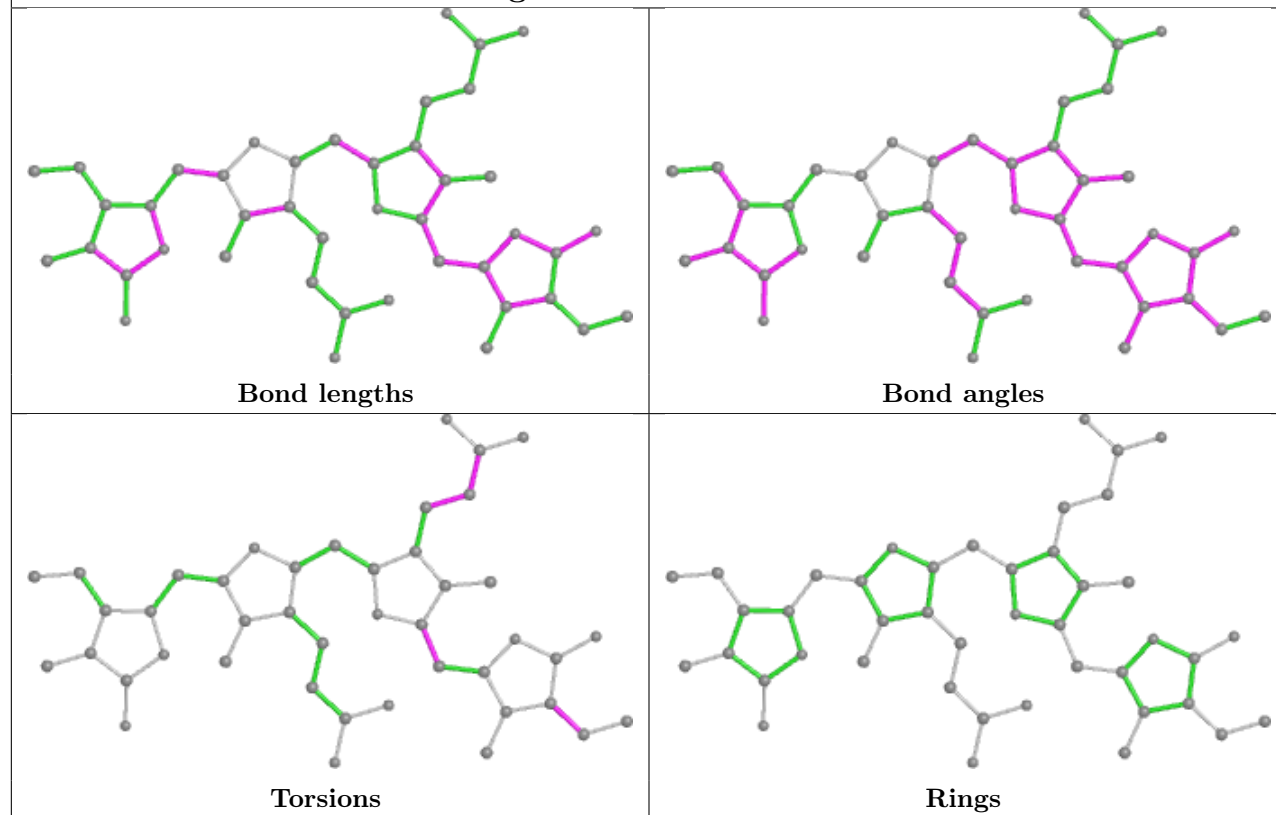
Torsions



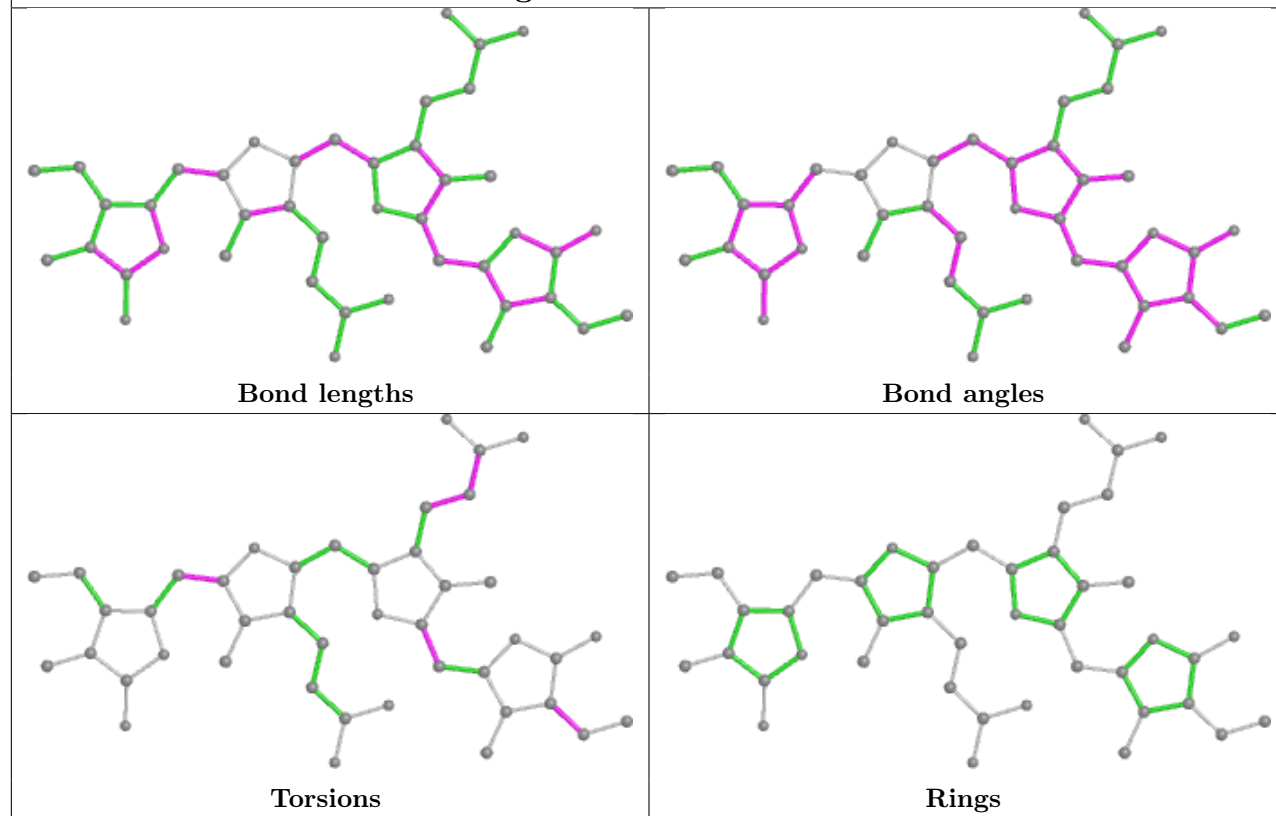
Rings

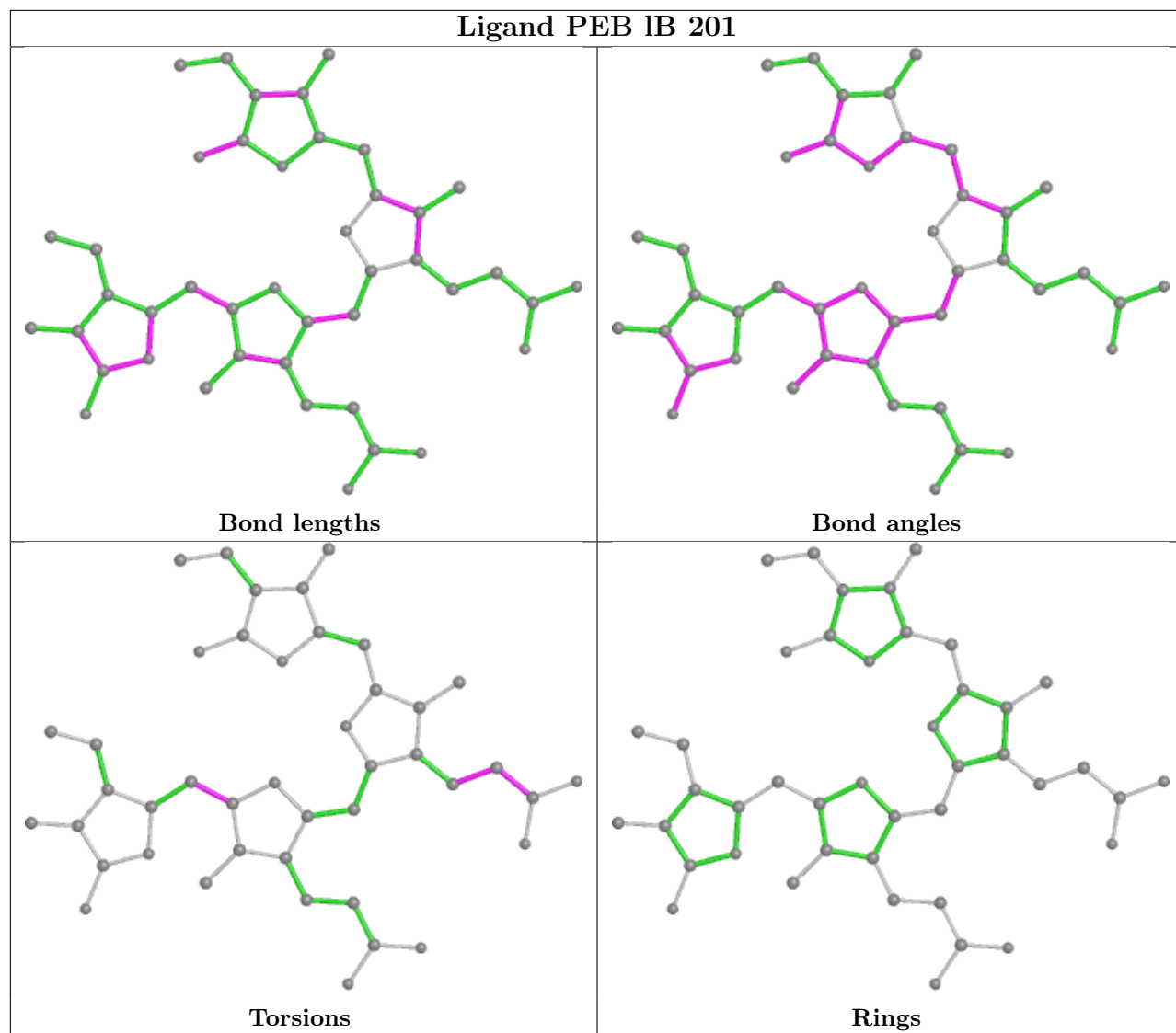


Ligand CYC HF 1001

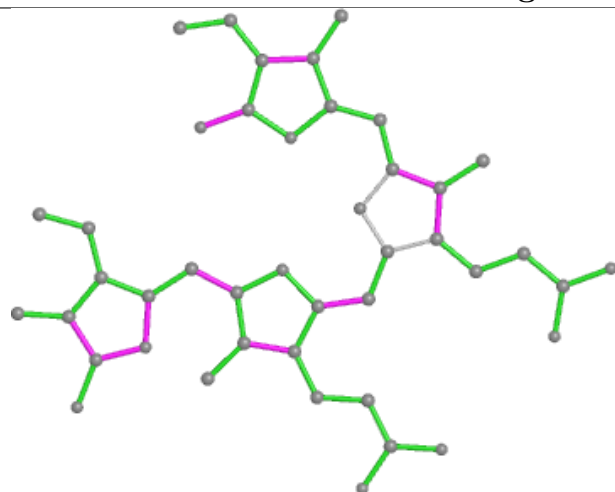


Ligand CYC tP 1001

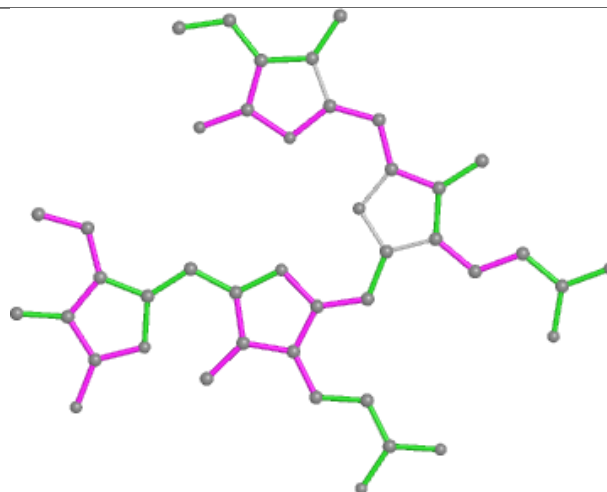




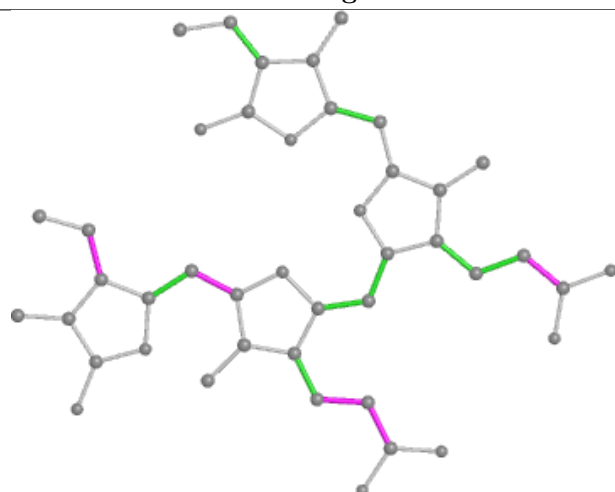
Ligand PEB II 202



Bond lengths



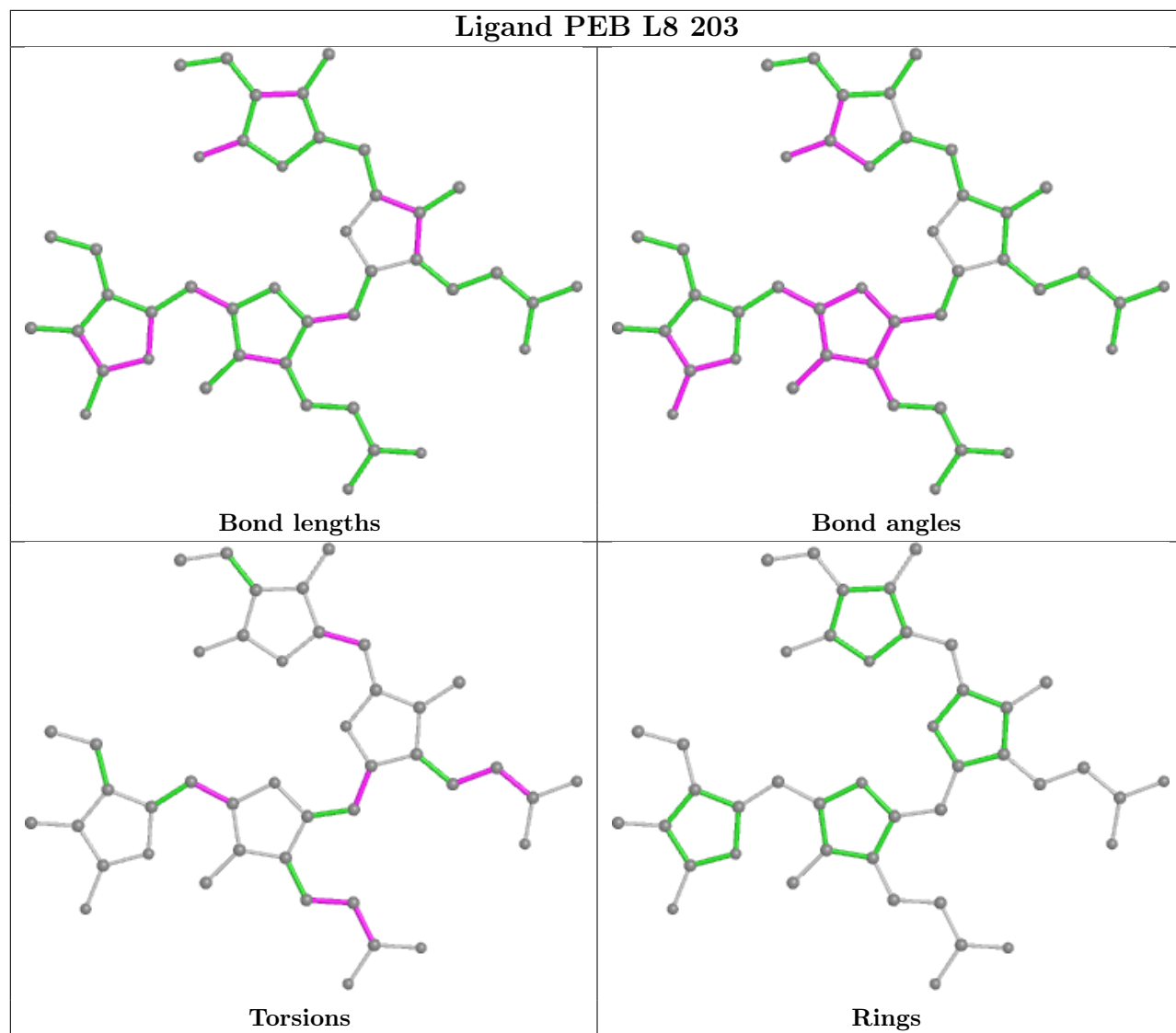
Bond angles



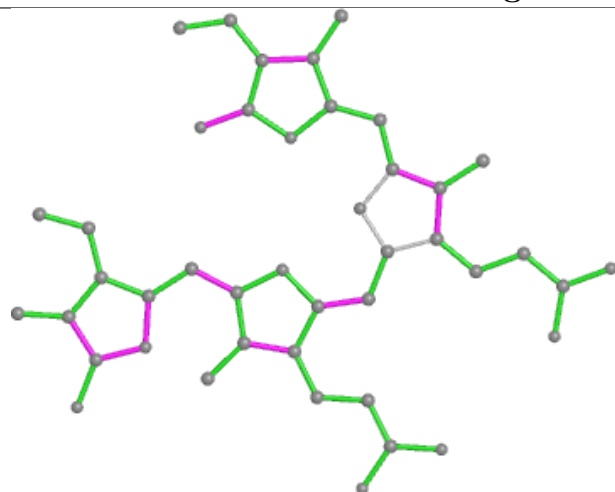
Torsions



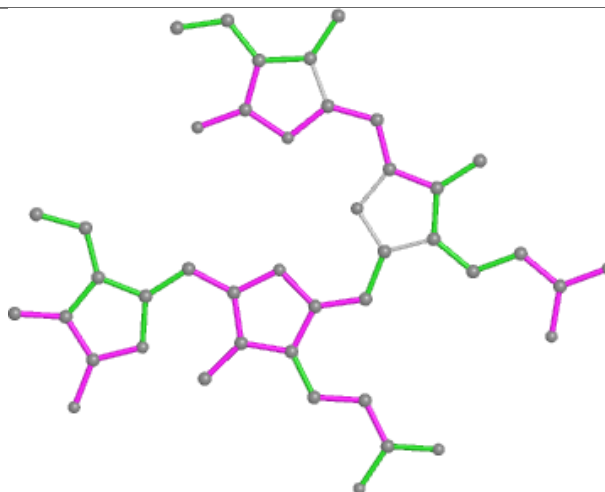
Rings



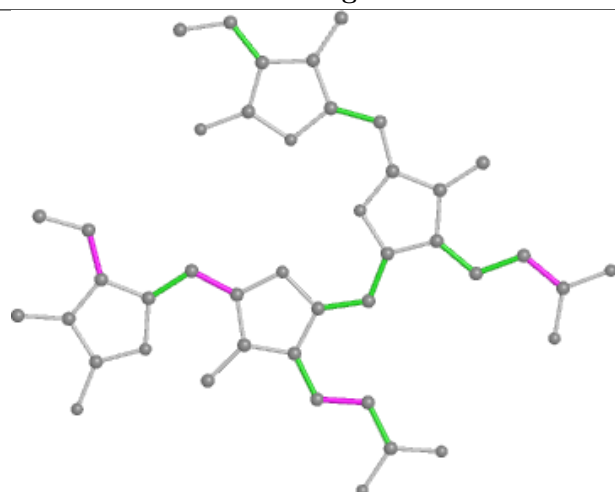
Ligand PEB M2 201



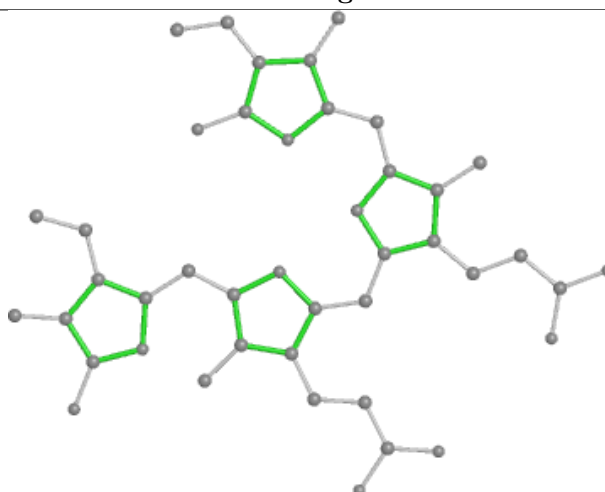
Bond lengths



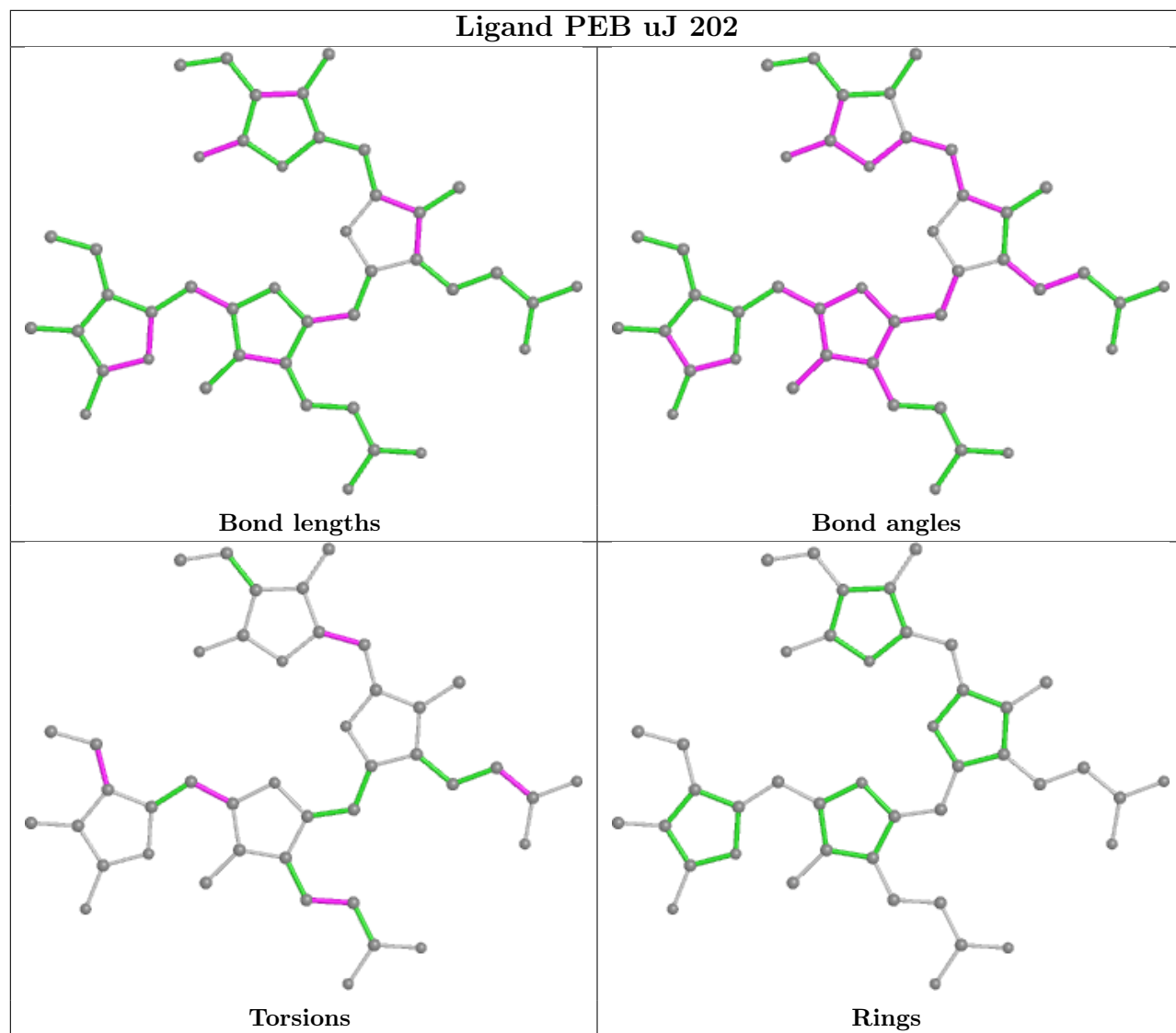
Bond angles



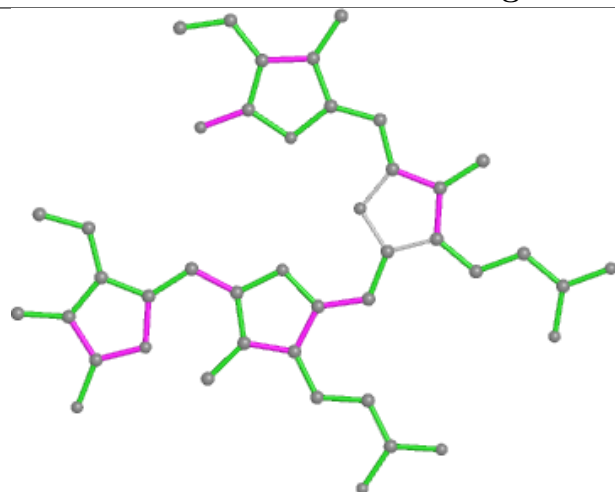
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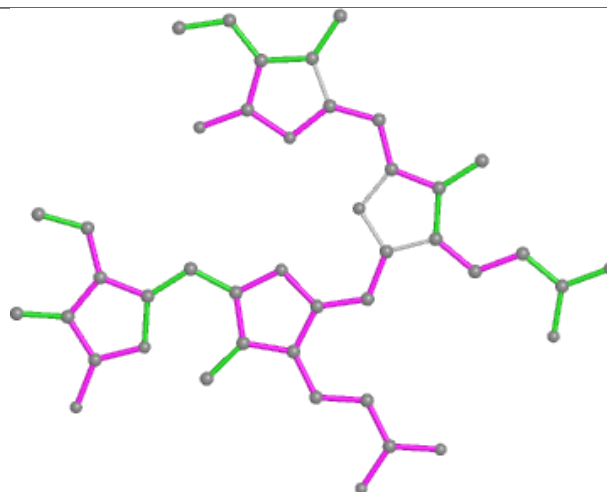
Rings



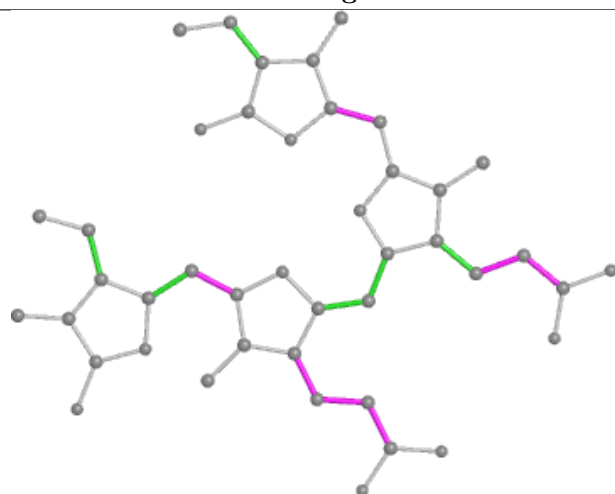
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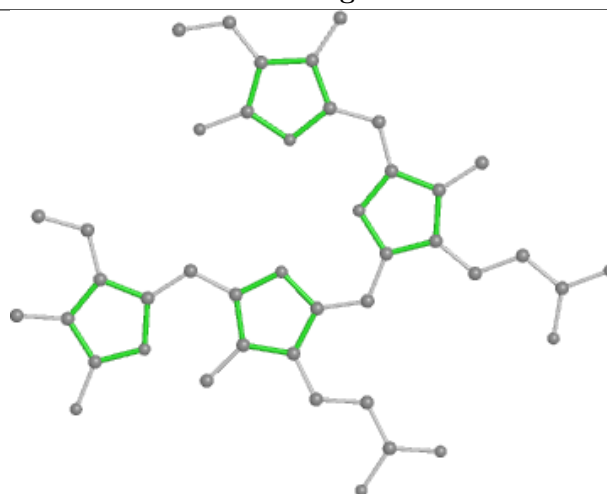
Bond lengths



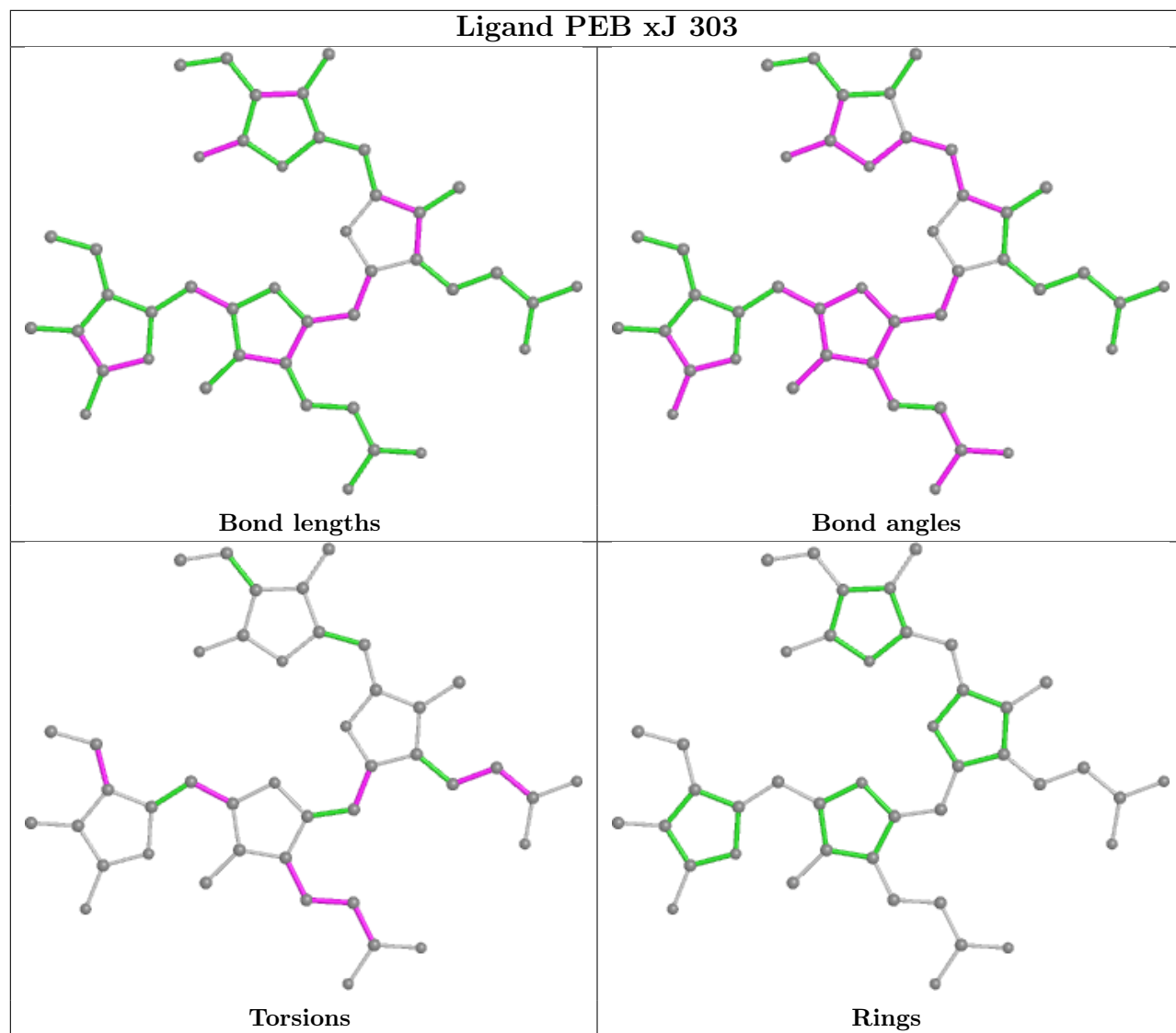
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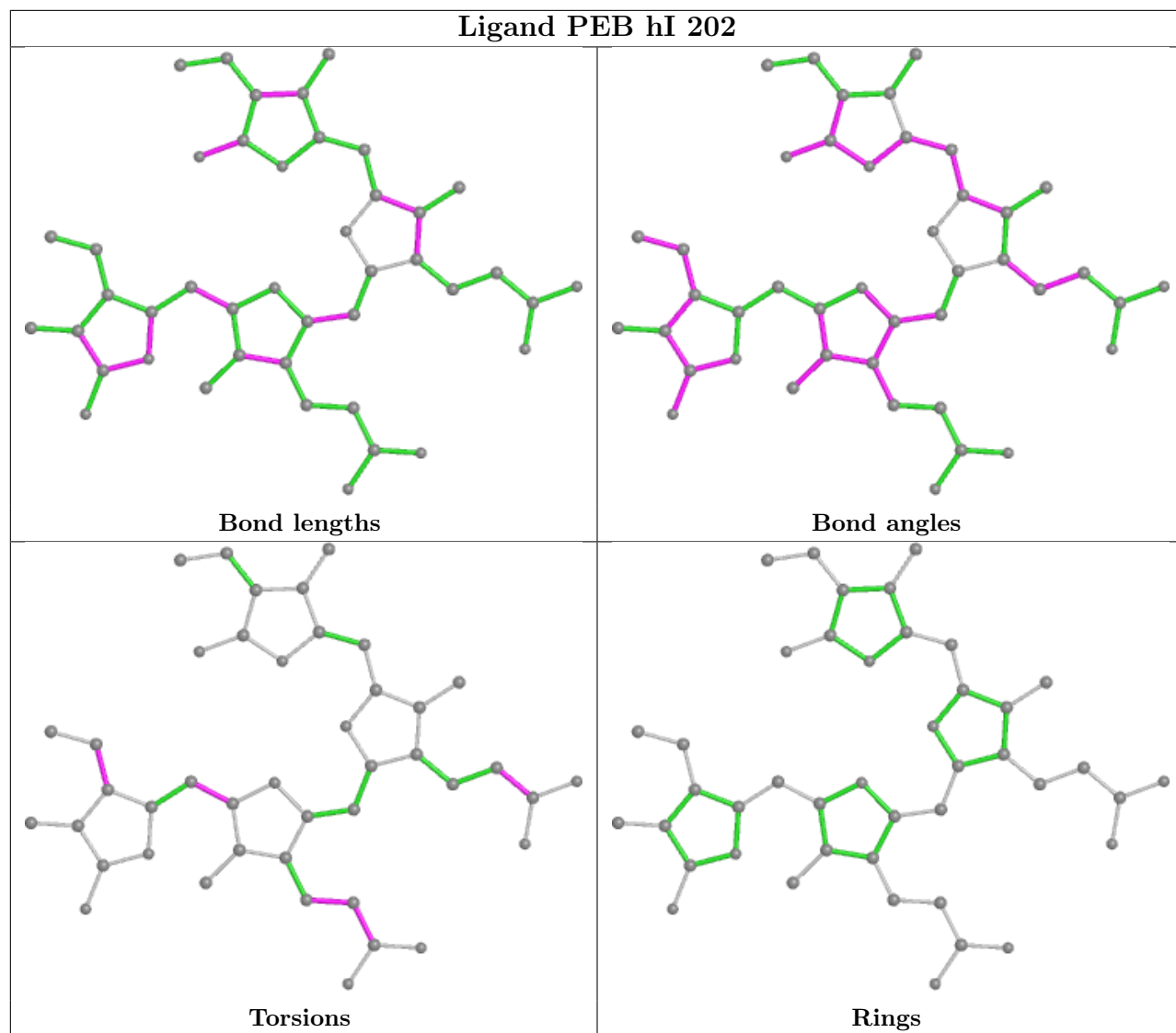


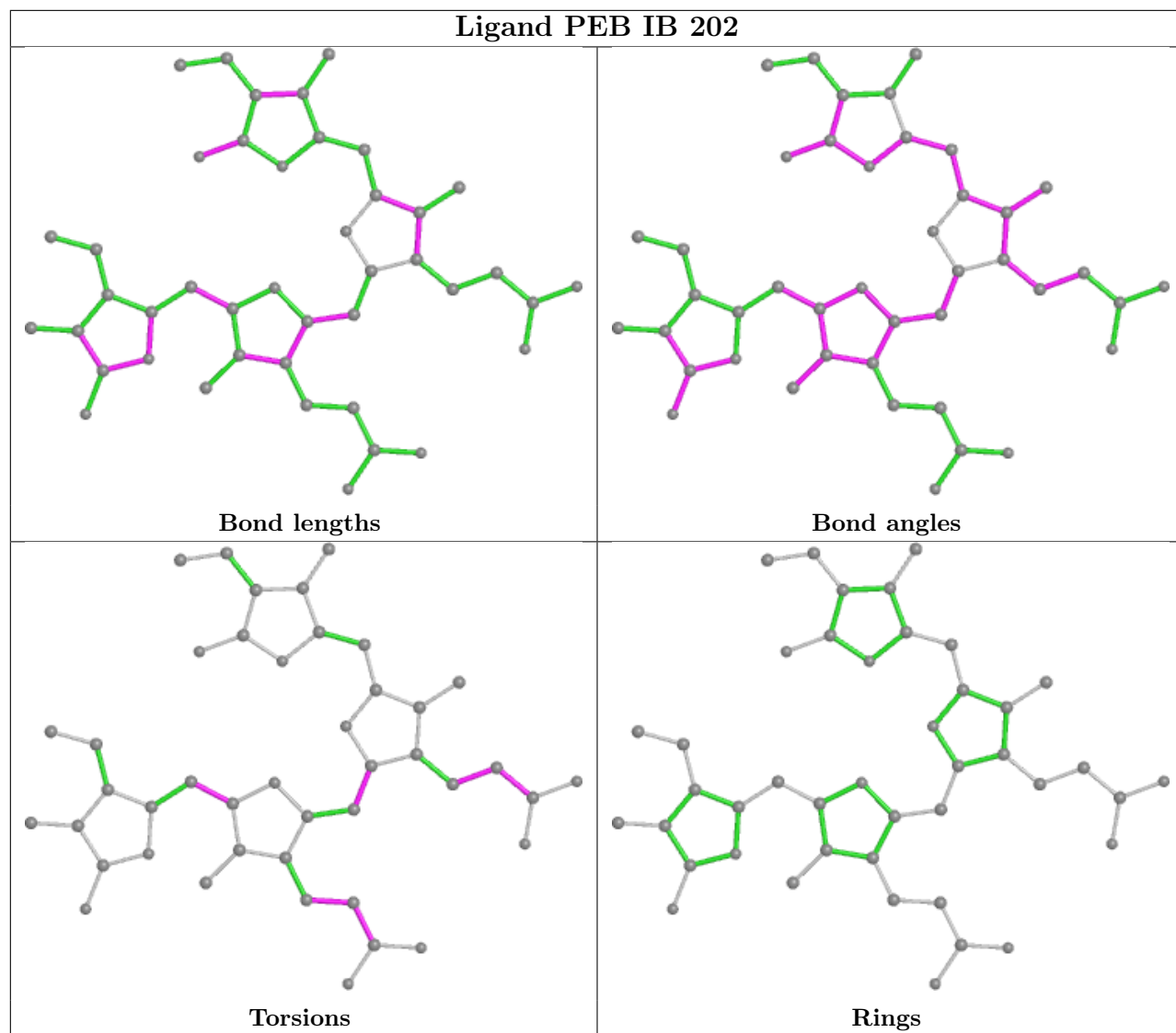
Torsions



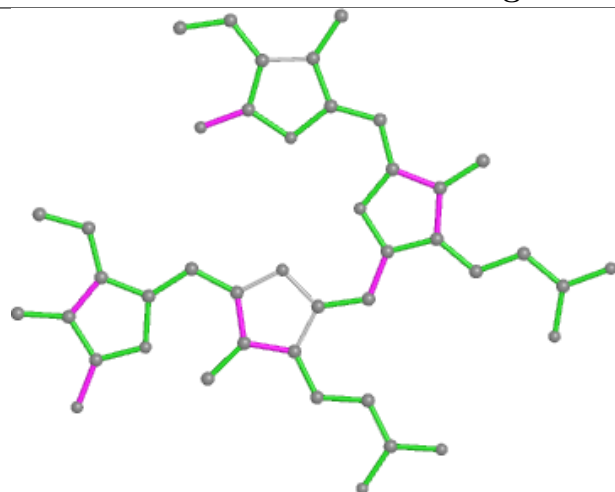
Rings



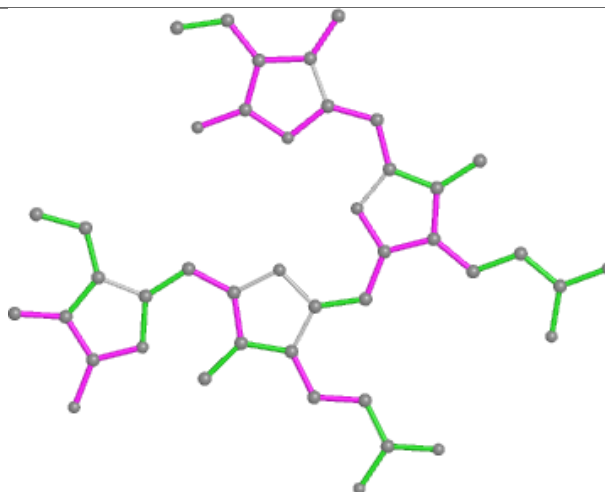




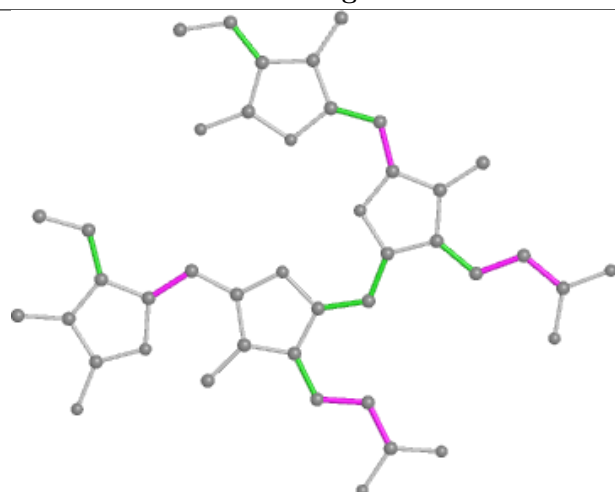
Ligand PUB AF 302



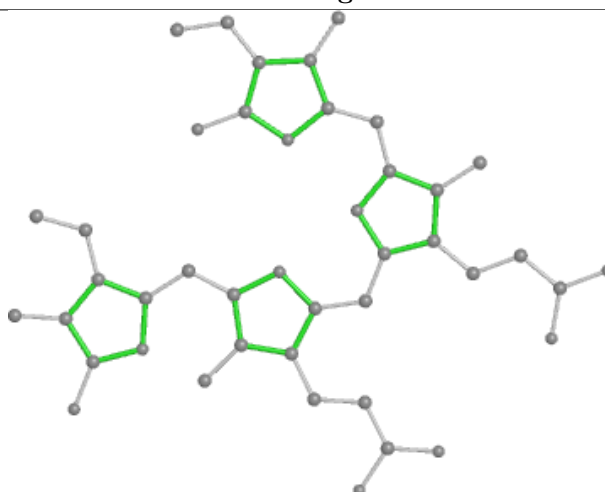
Bond lengths



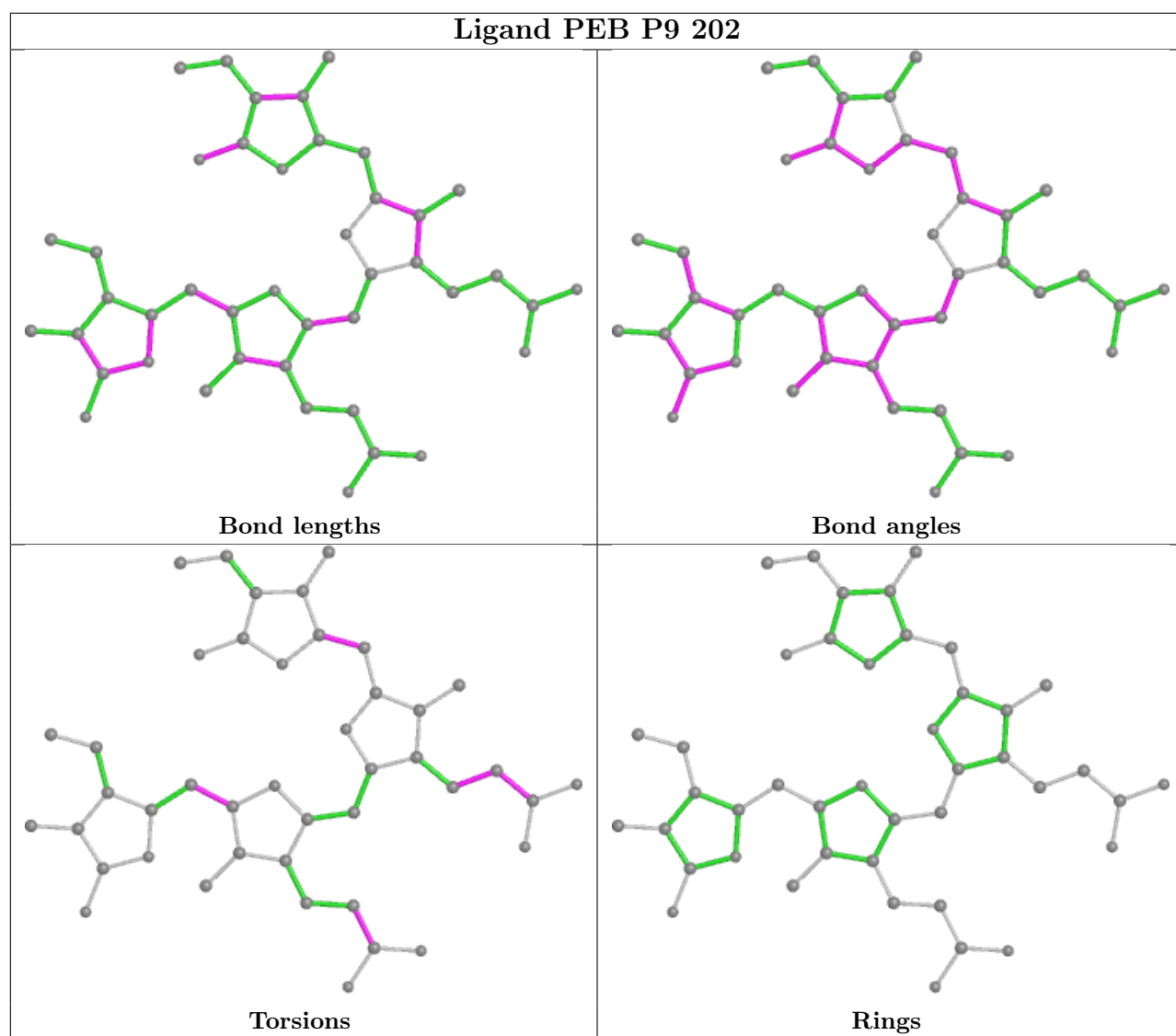
Bond angles



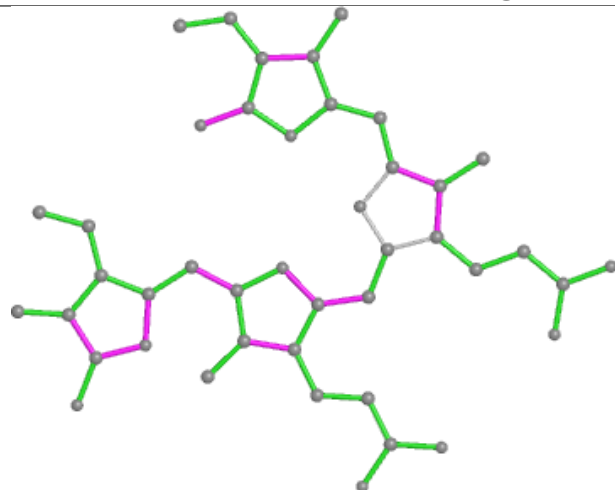
Torsions



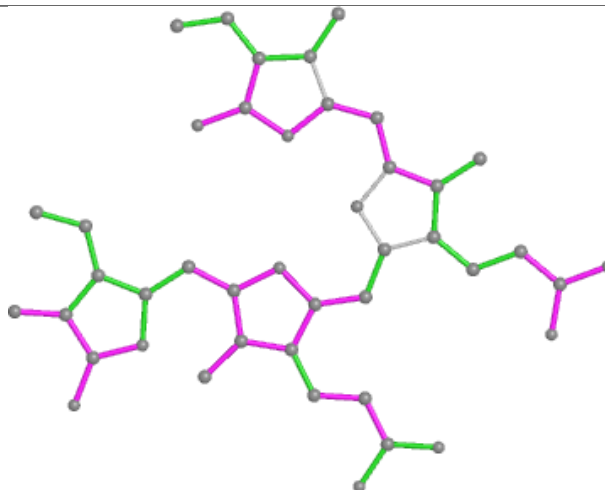
Rings



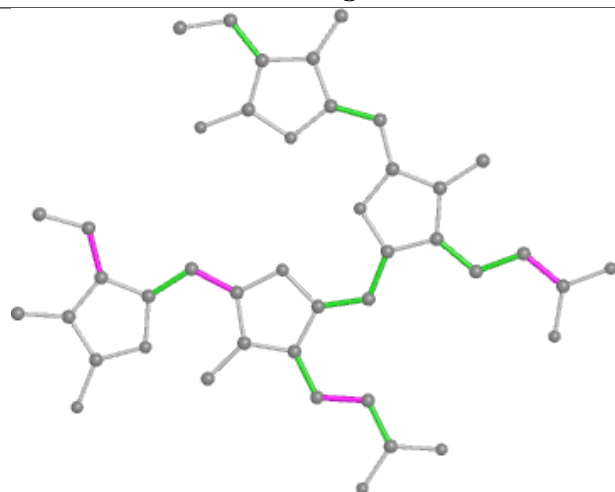
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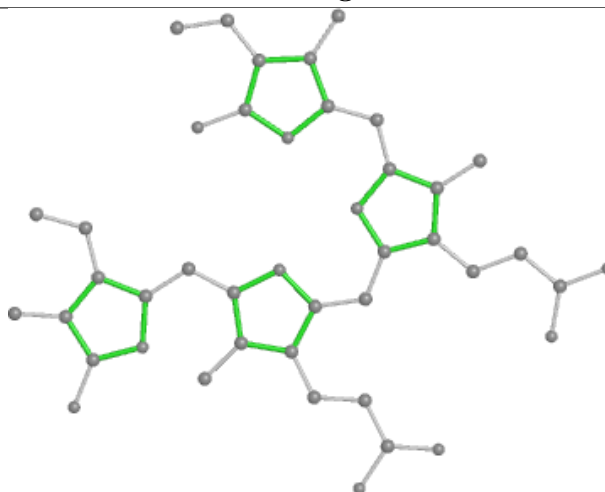
Bond lengths



Bond angles

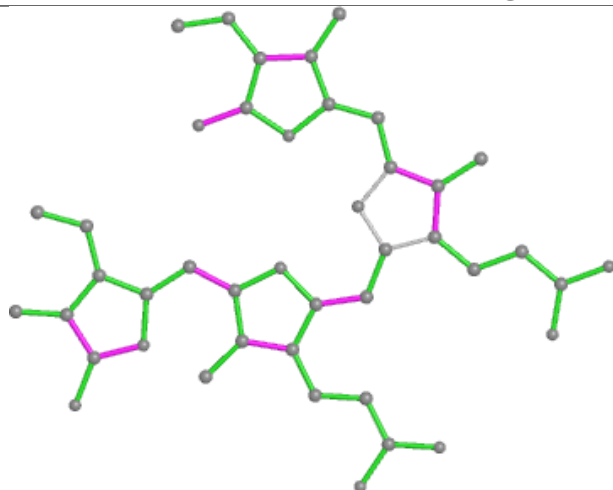


Torsions

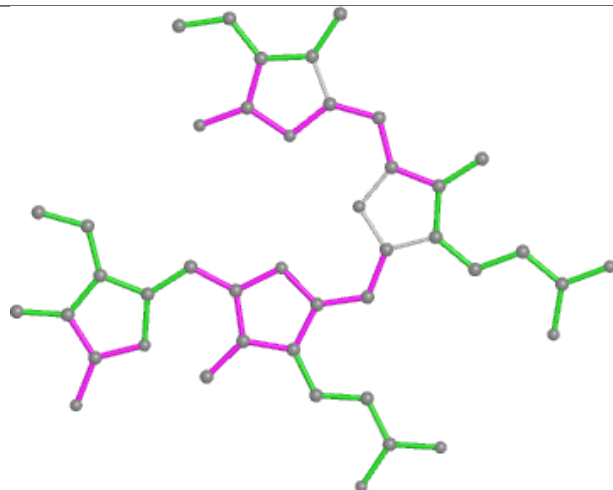


Rings

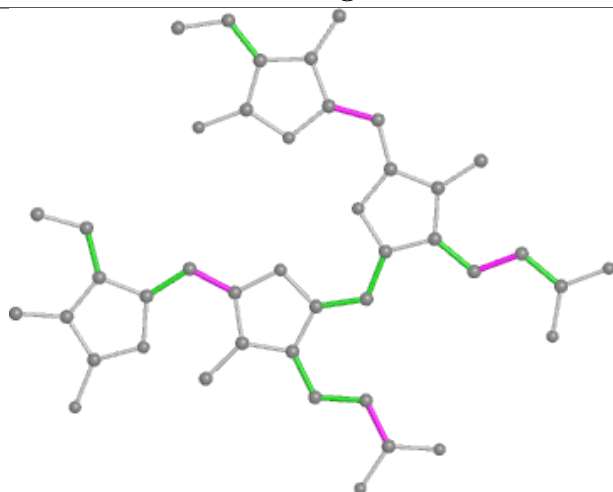
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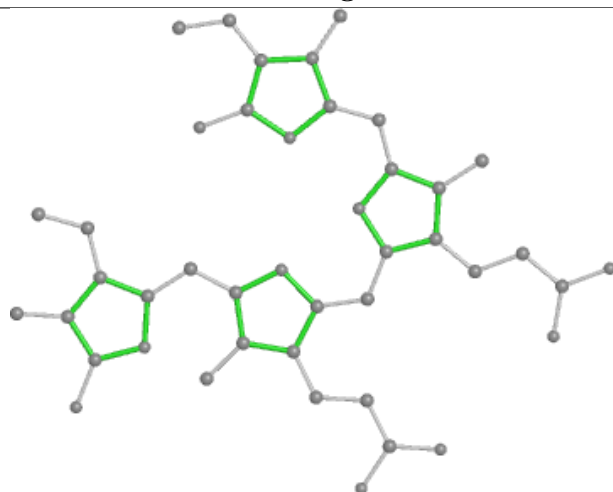
Bond lengths



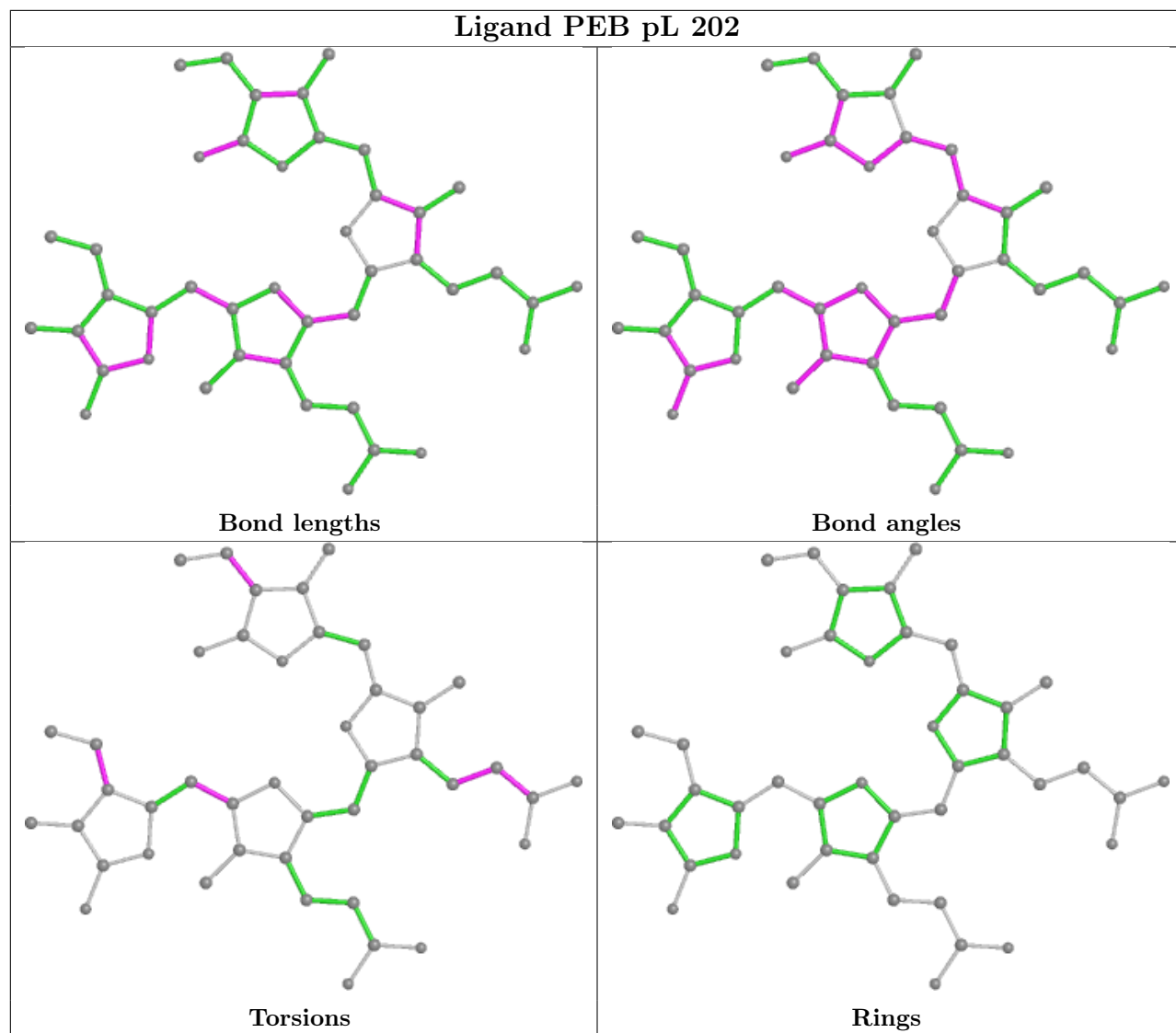
Bond angles



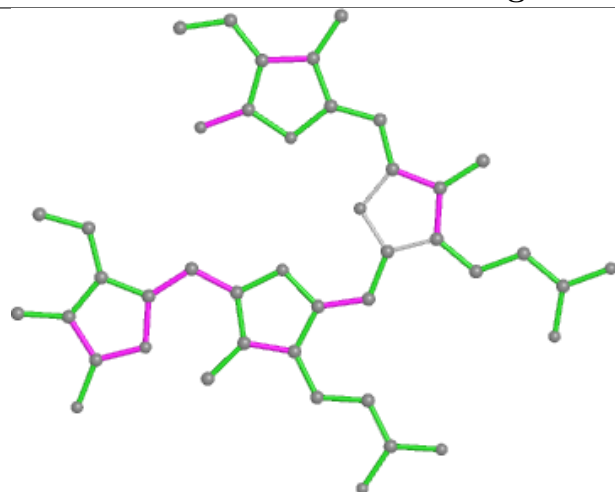
Torsions



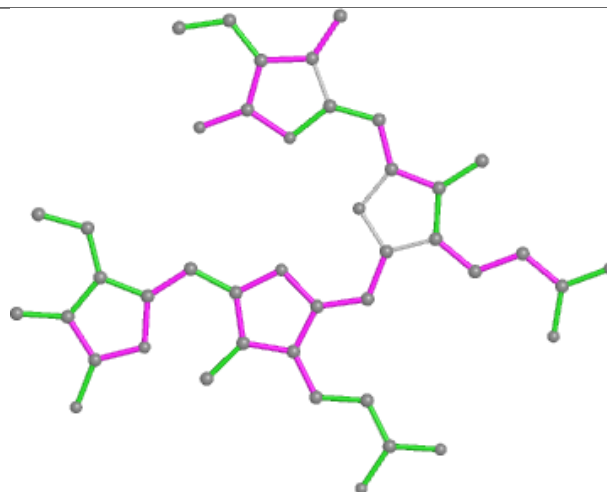
Rings



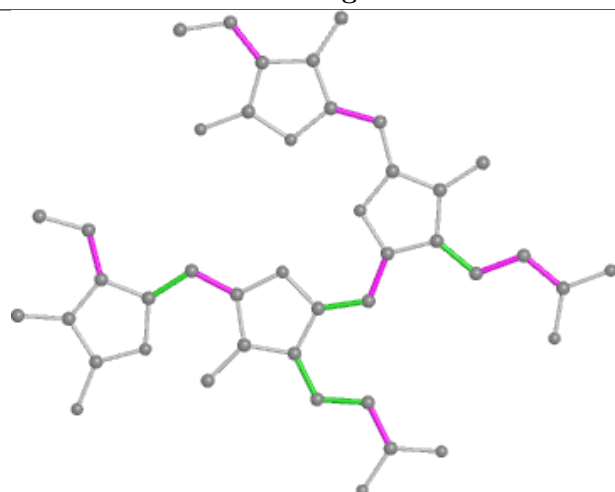
Ligand PEB C4 202



Bond lengths



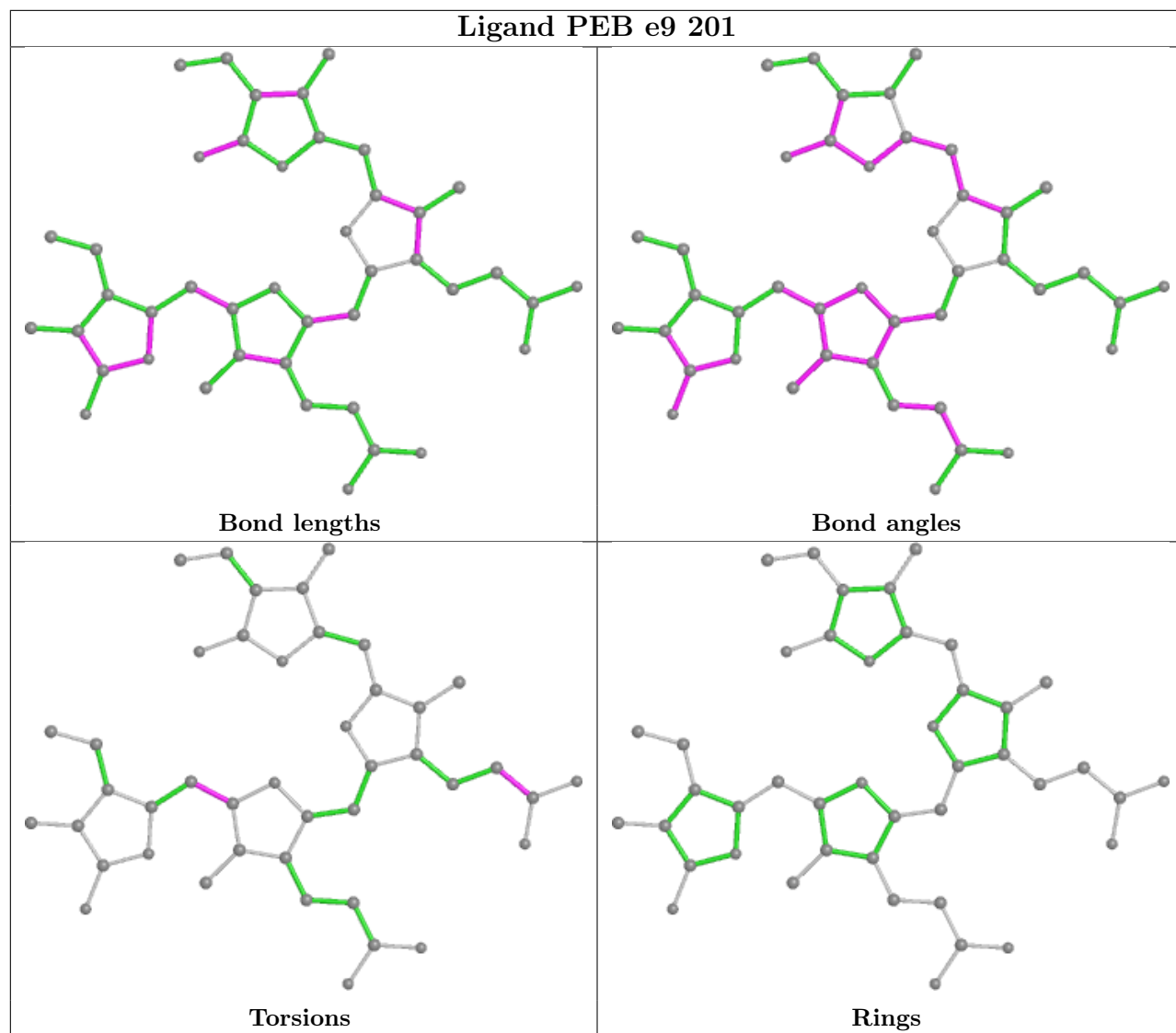
Bond angles

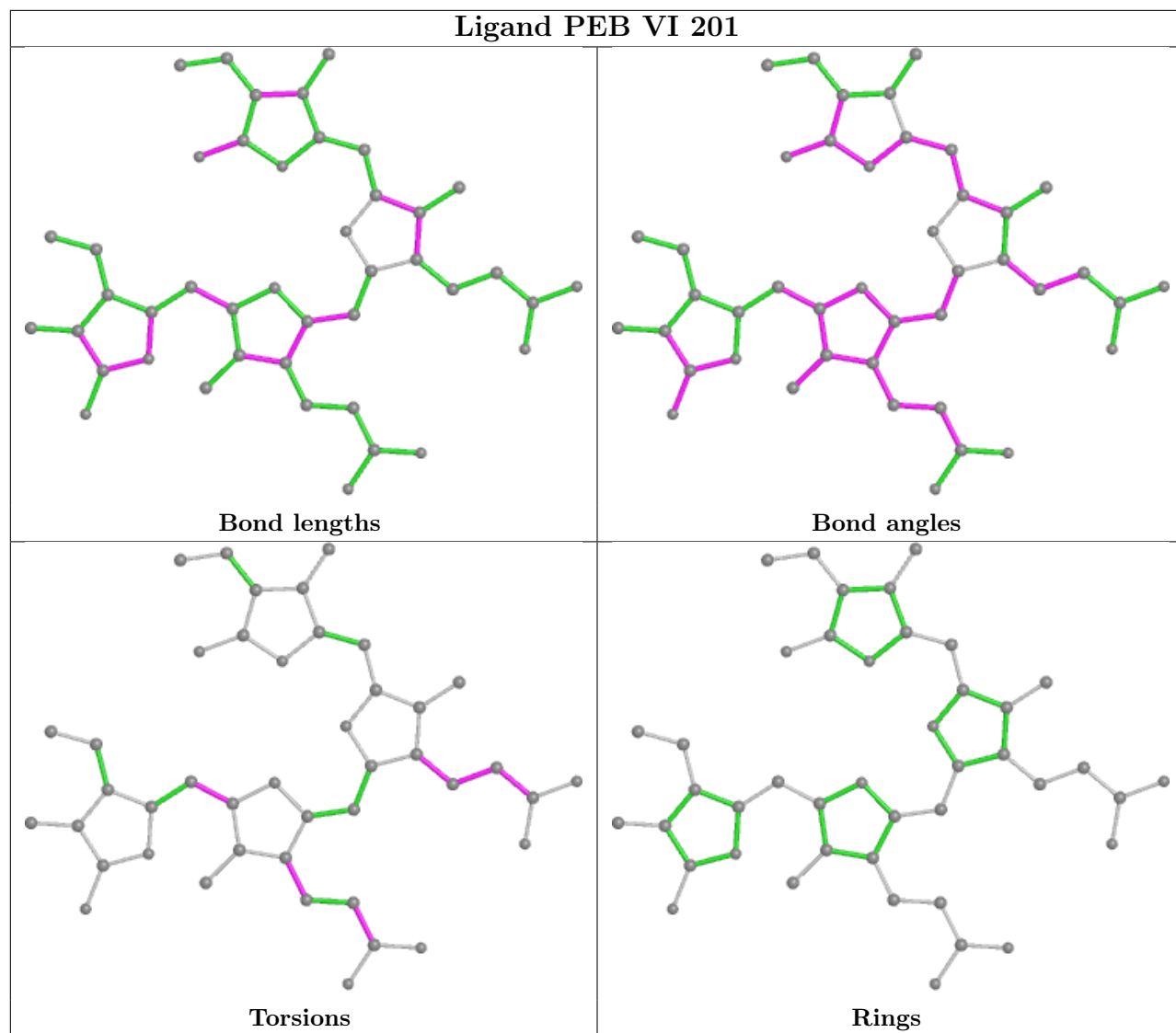


Torsions

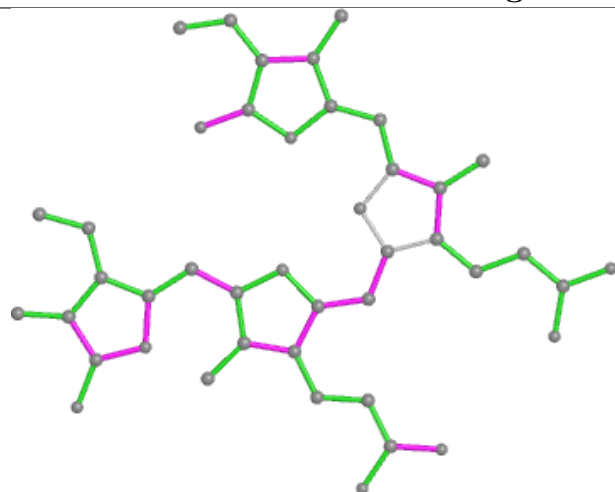


Rings

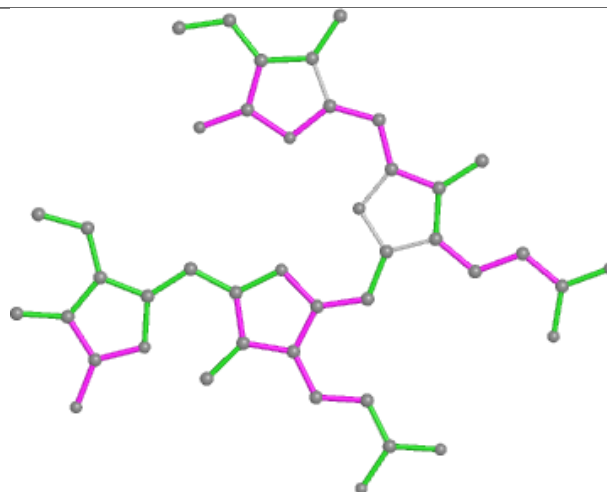




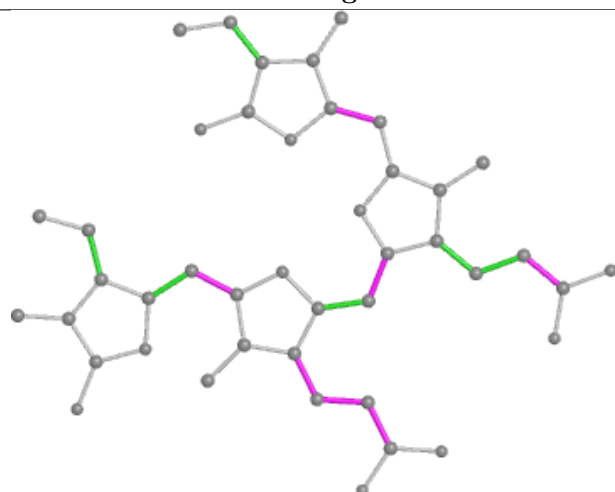
Ligand PEB m9 203



Bond lengths



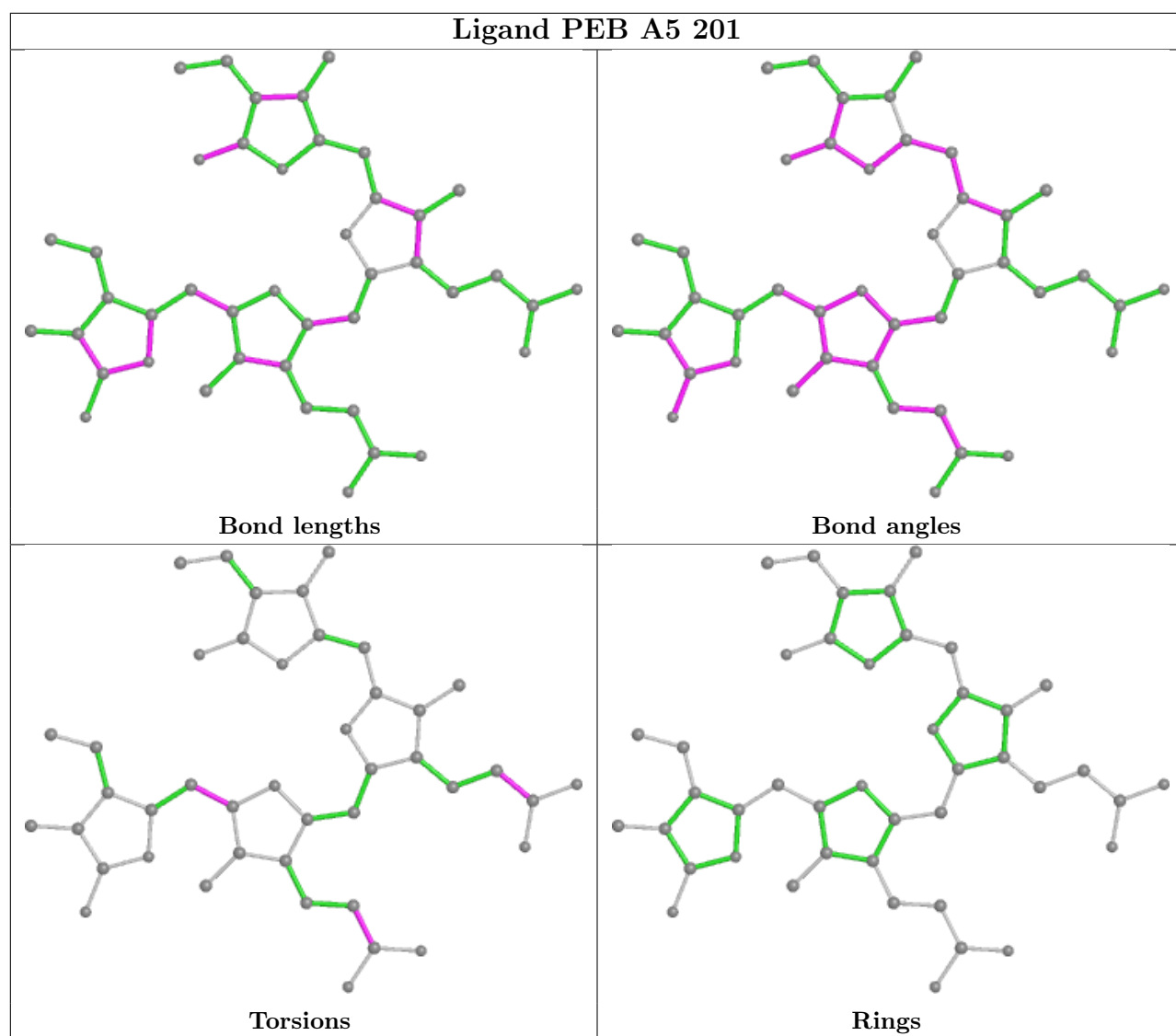
Bond angles



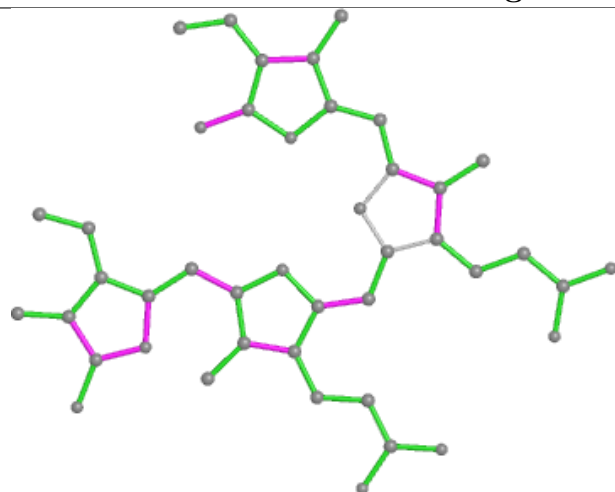
Torsions



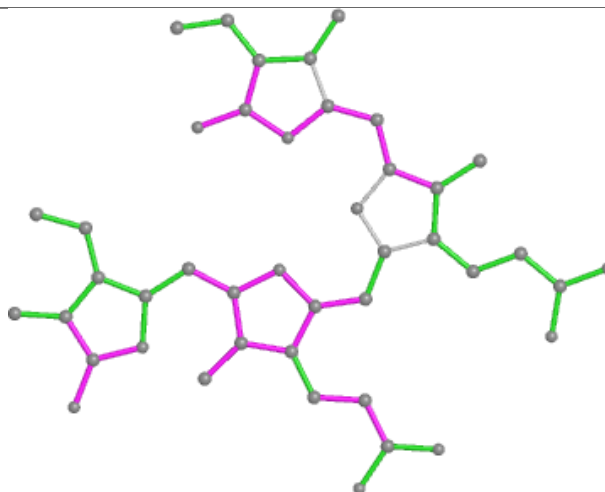
Rings



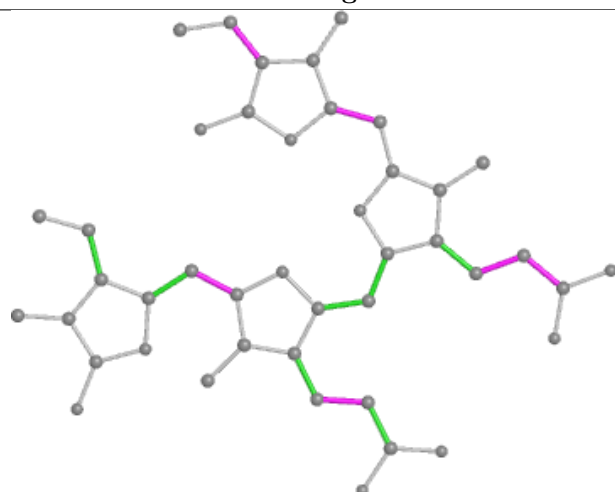
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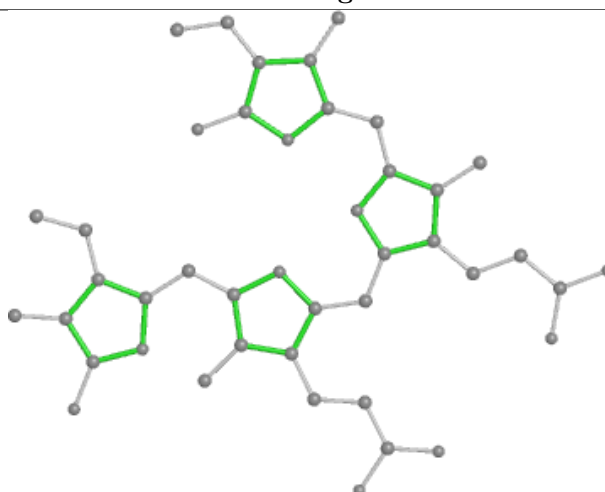
Bond lengths



Bond angles

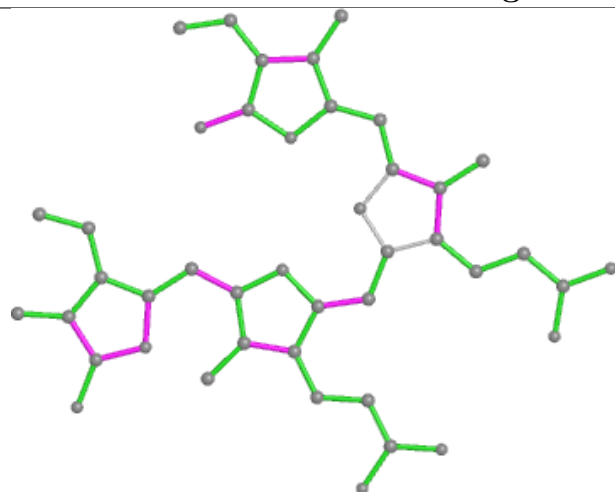


Torsions

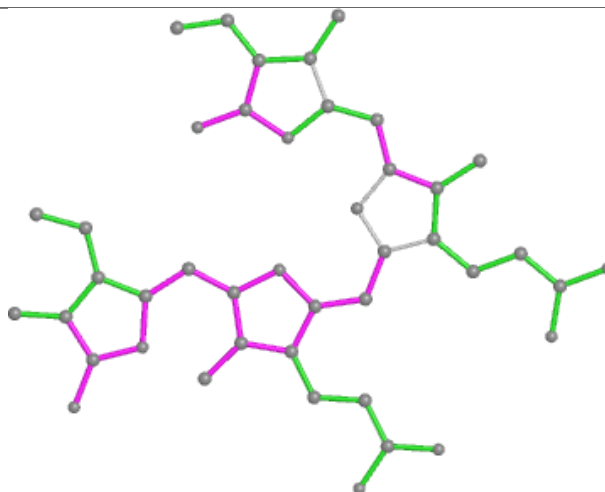


Rings

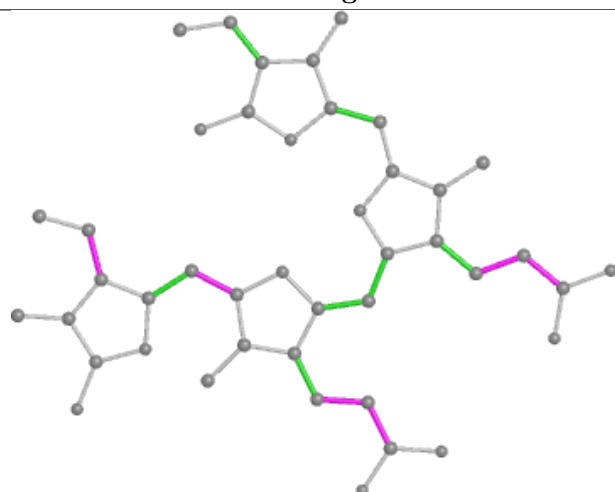
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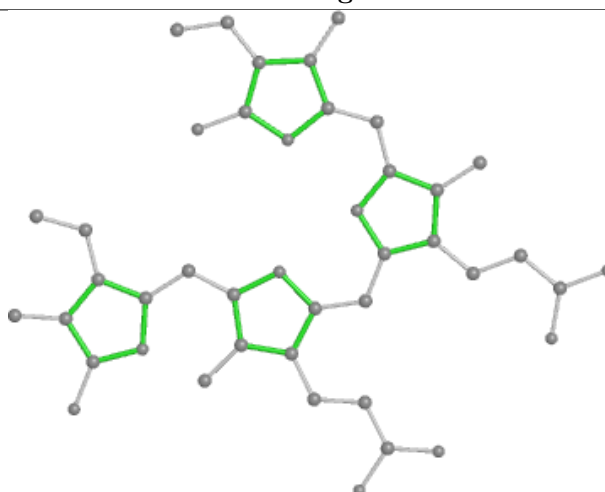
Bond lengths



Bond angles

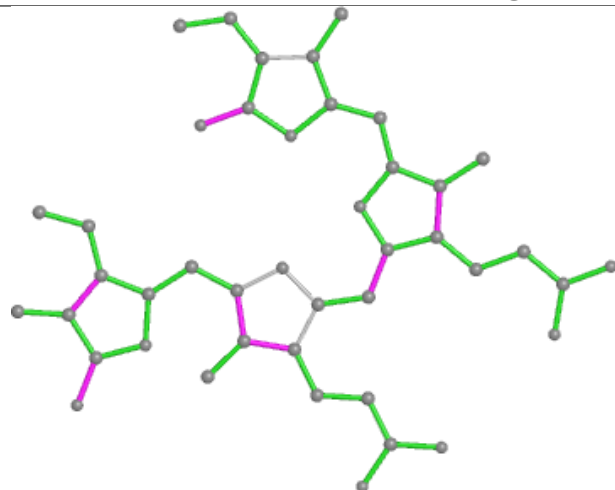


Torsions

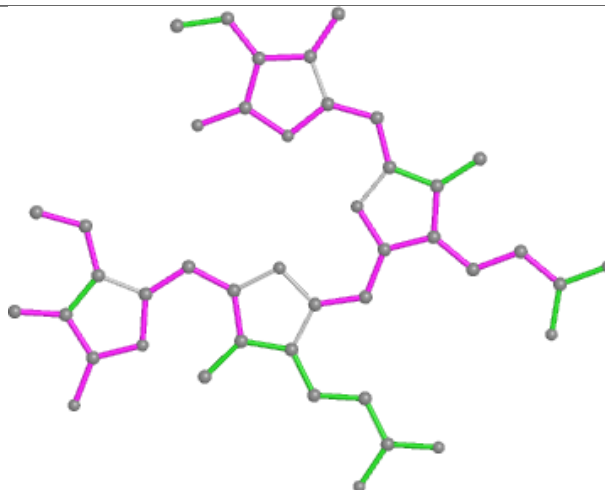


Rings

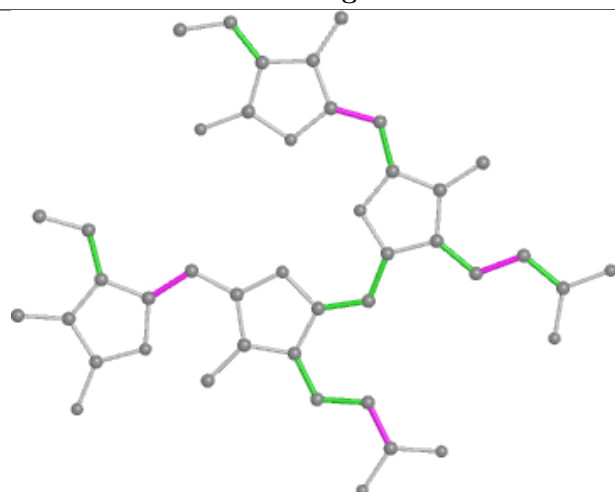
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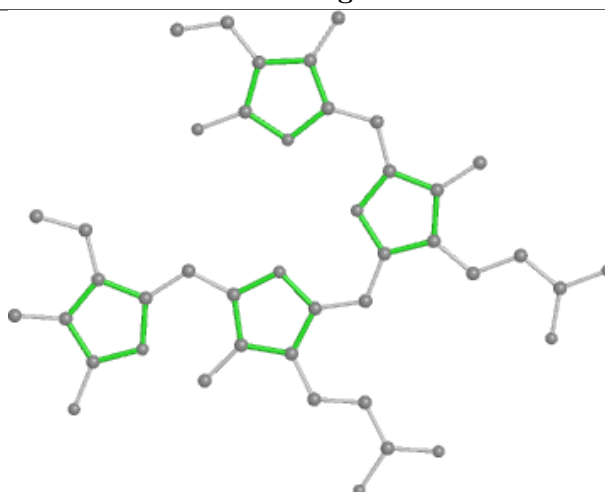
Bond lengths



Bond angles

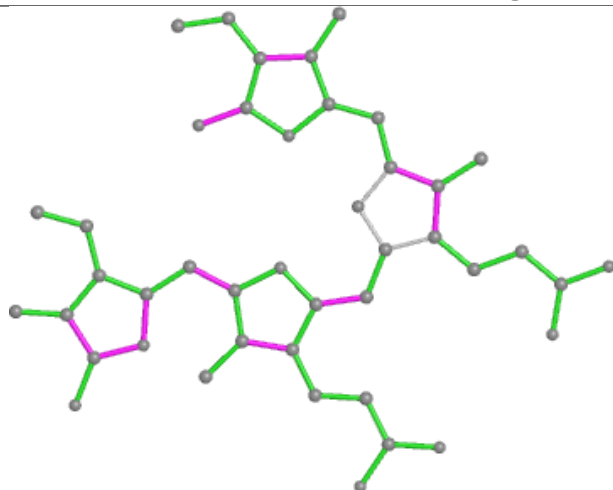


Torsions

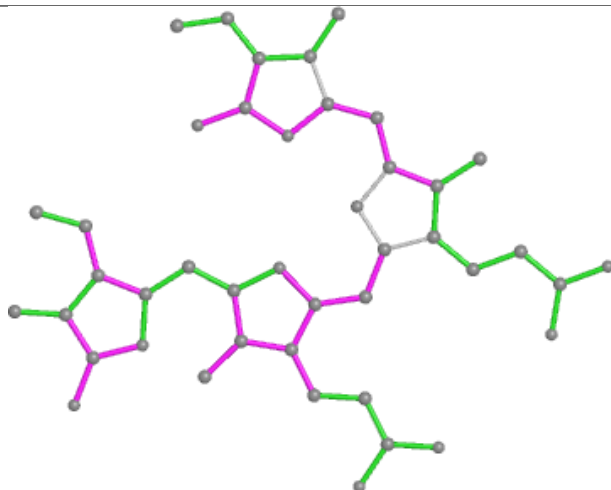


Rings

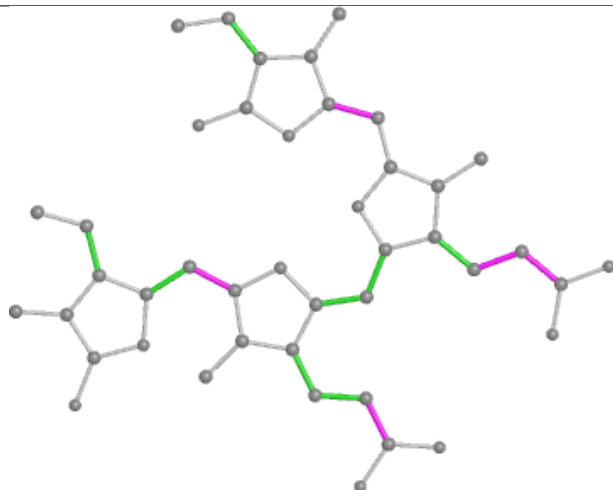
Ligand PEB T7 202



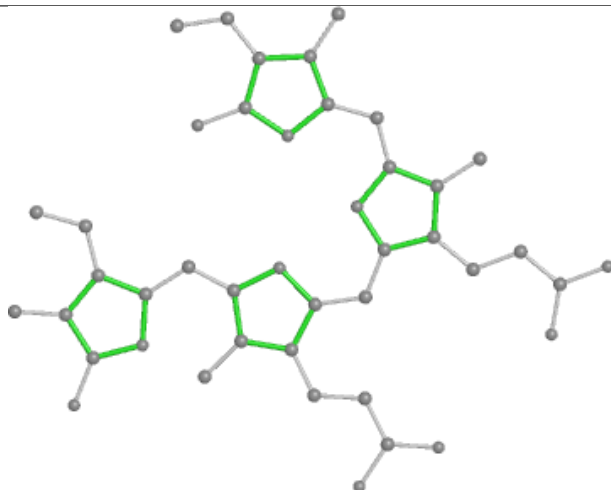
Bond lengths



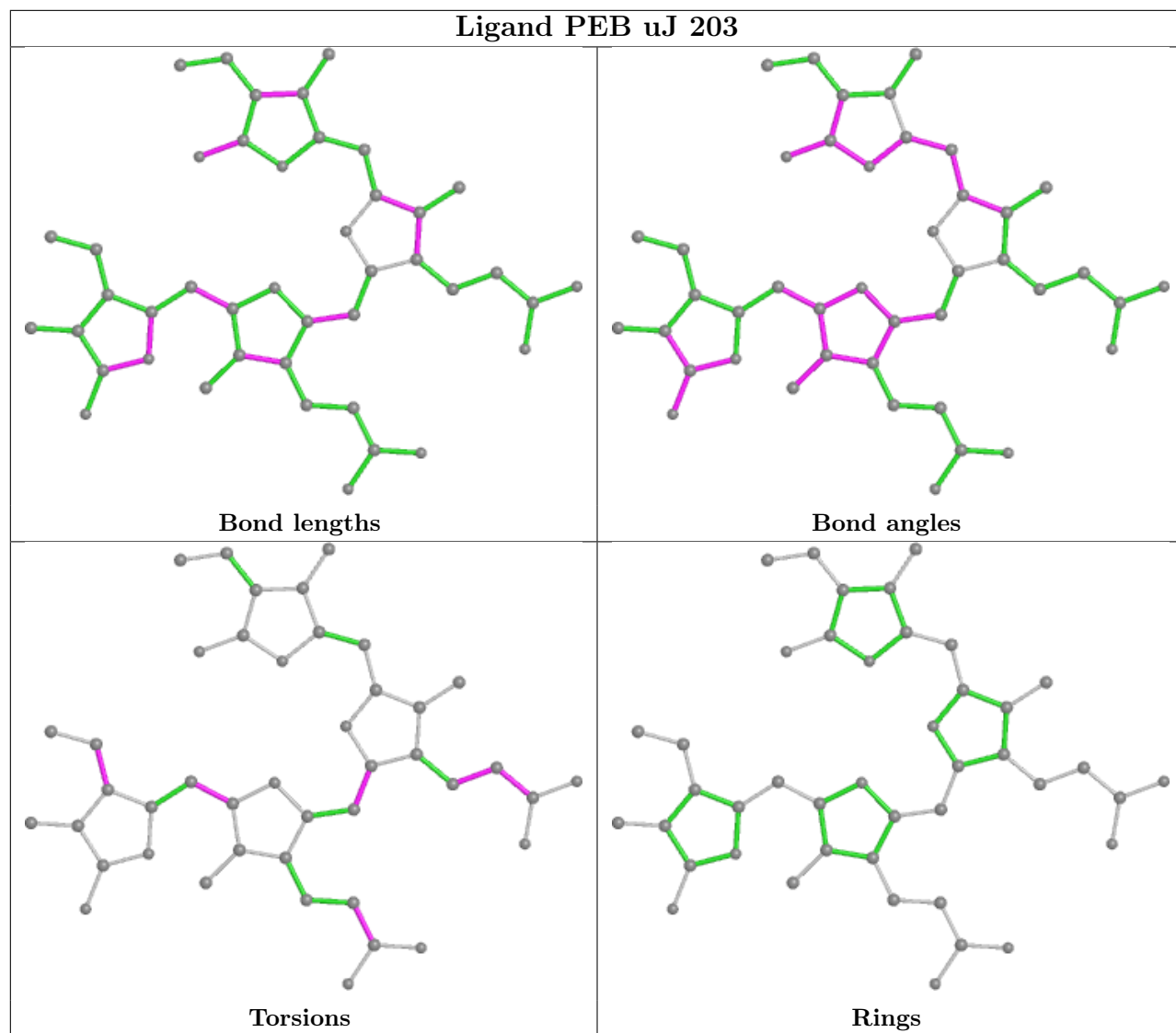
Bond angles

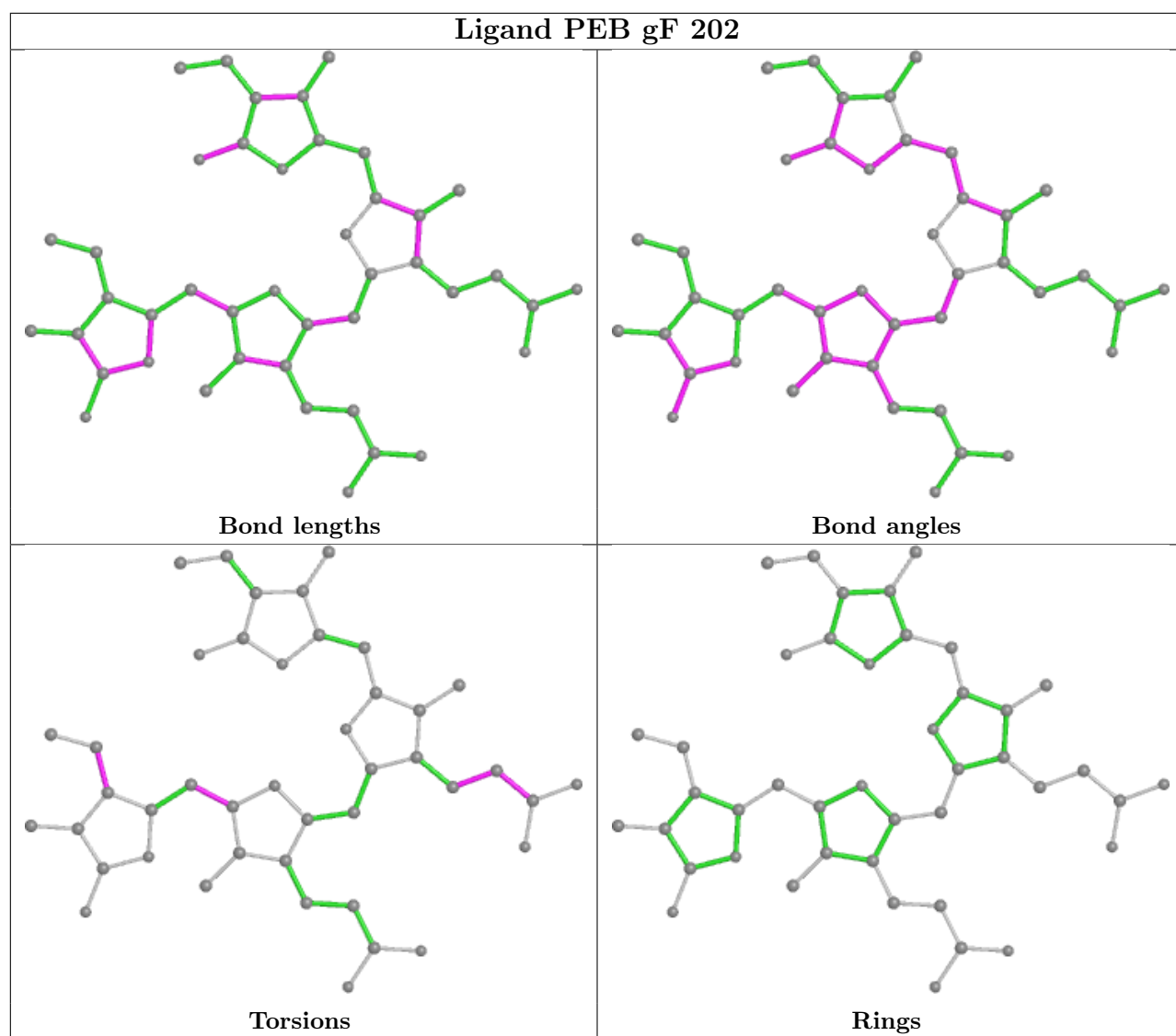


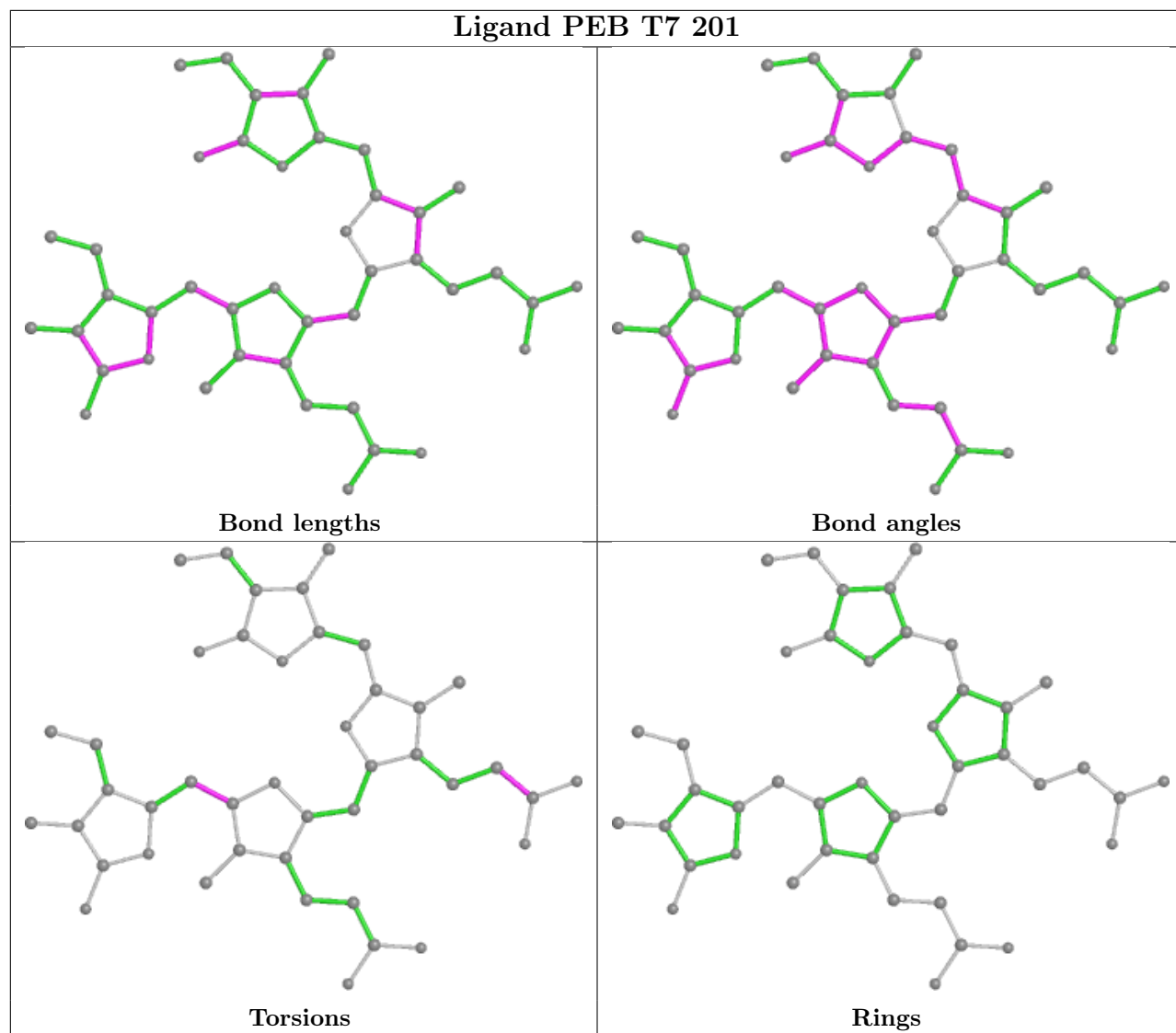
Torsions

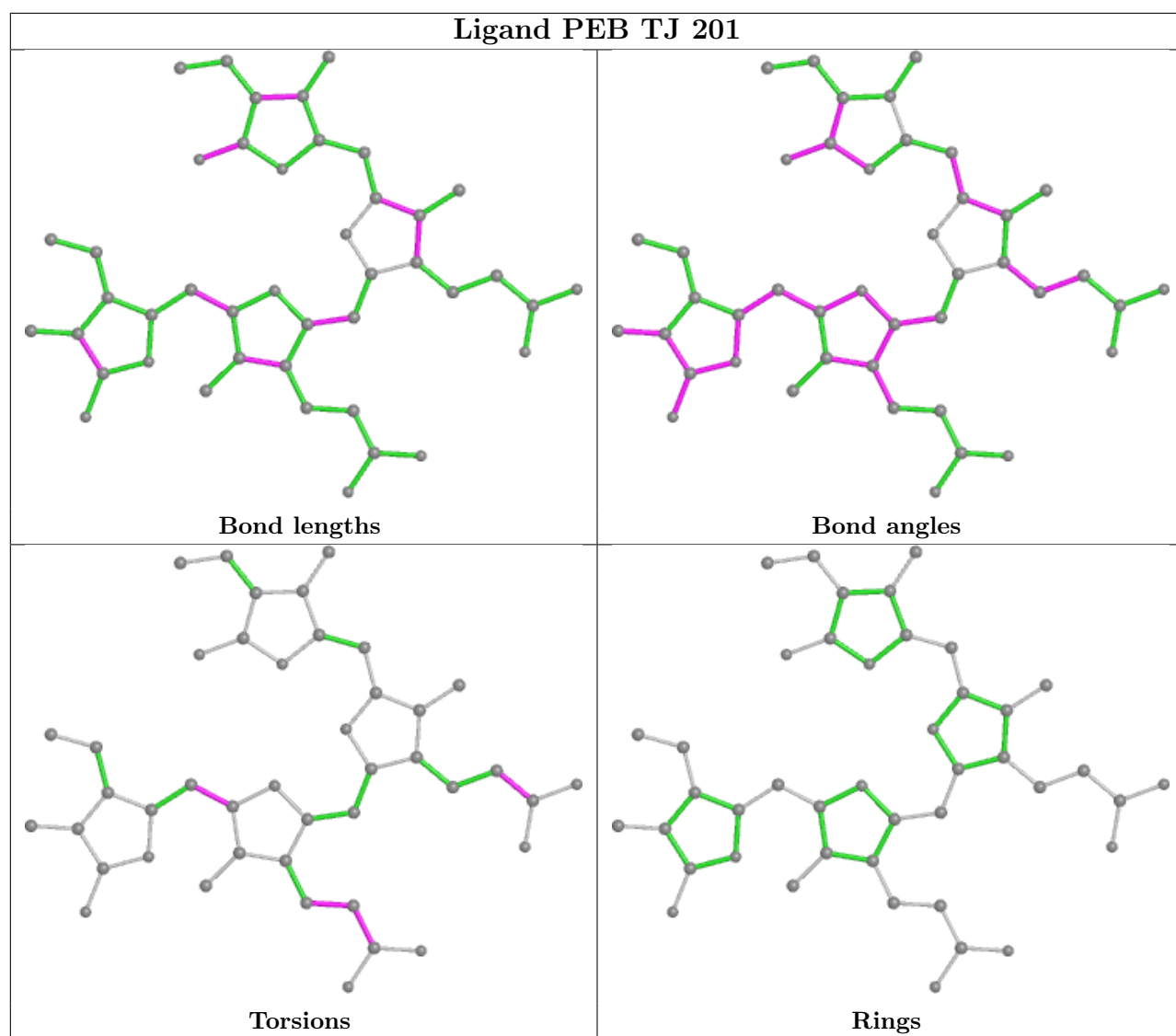


Rings

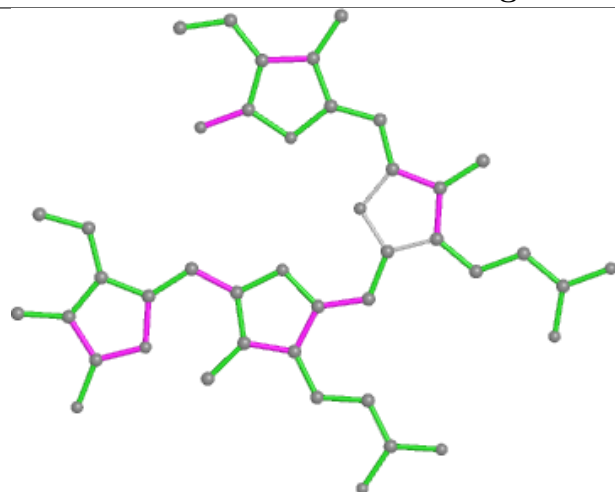




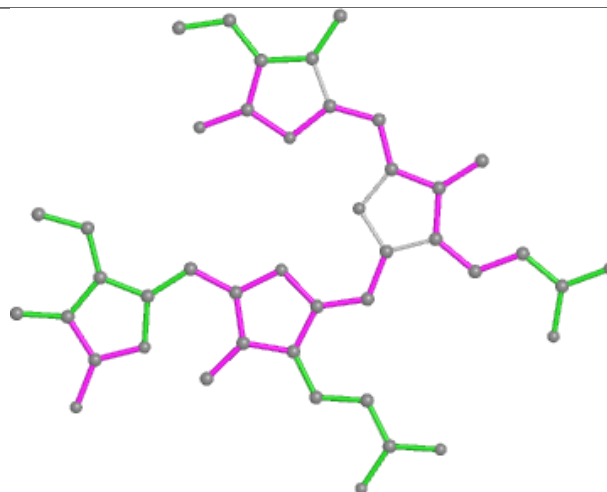




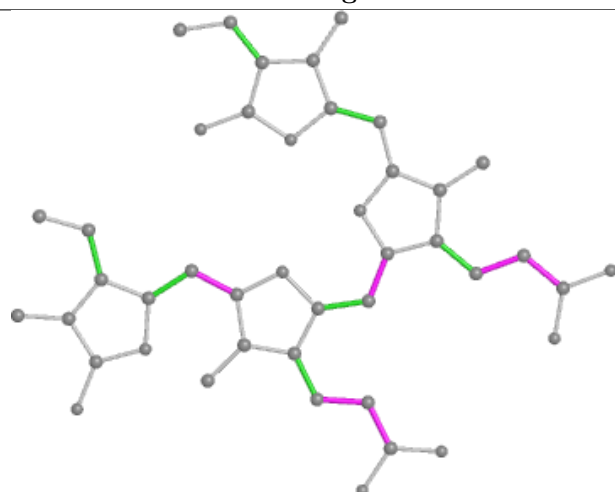
Ligand PEB CM 202



Bond lengths



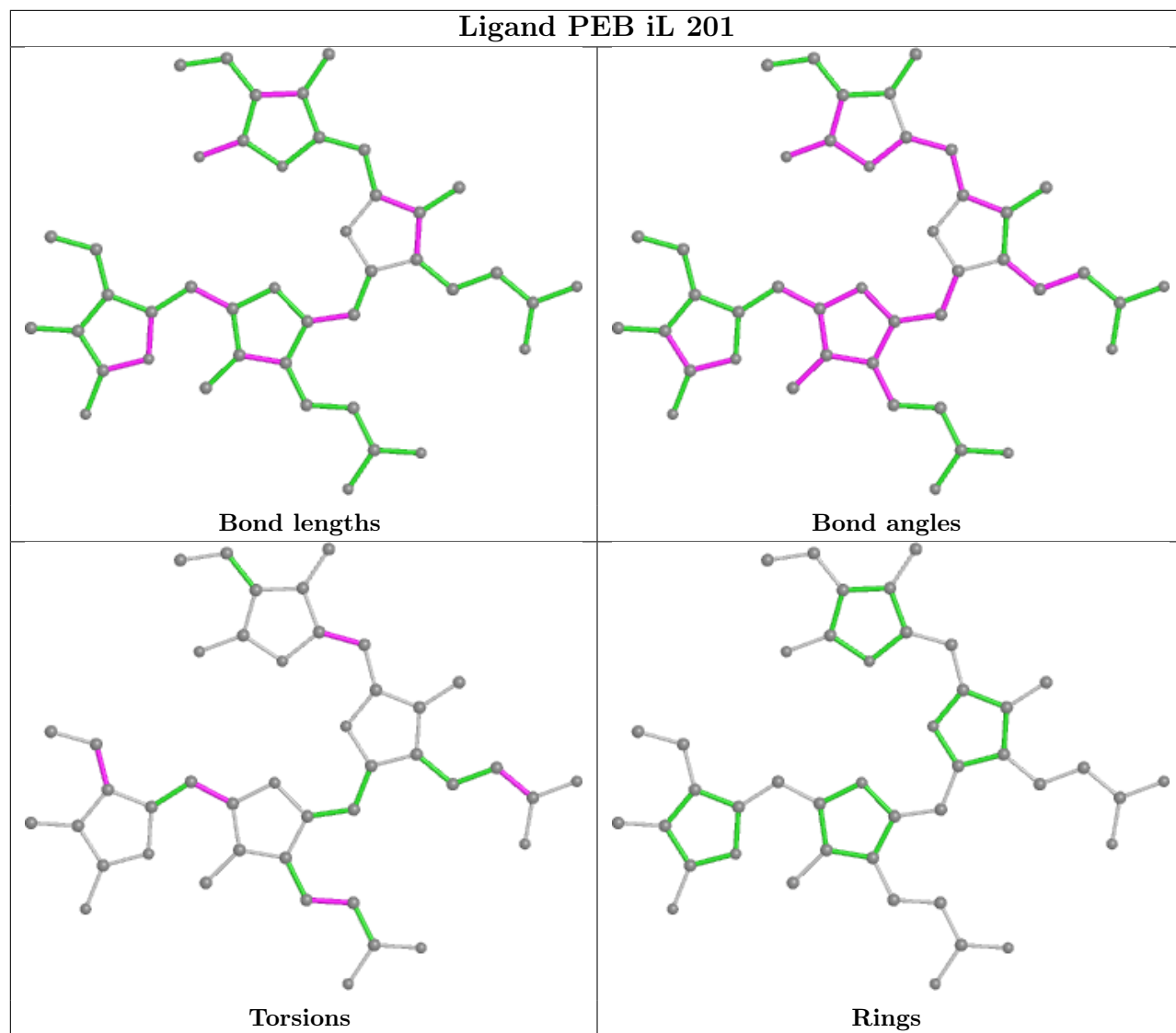
Bond angles

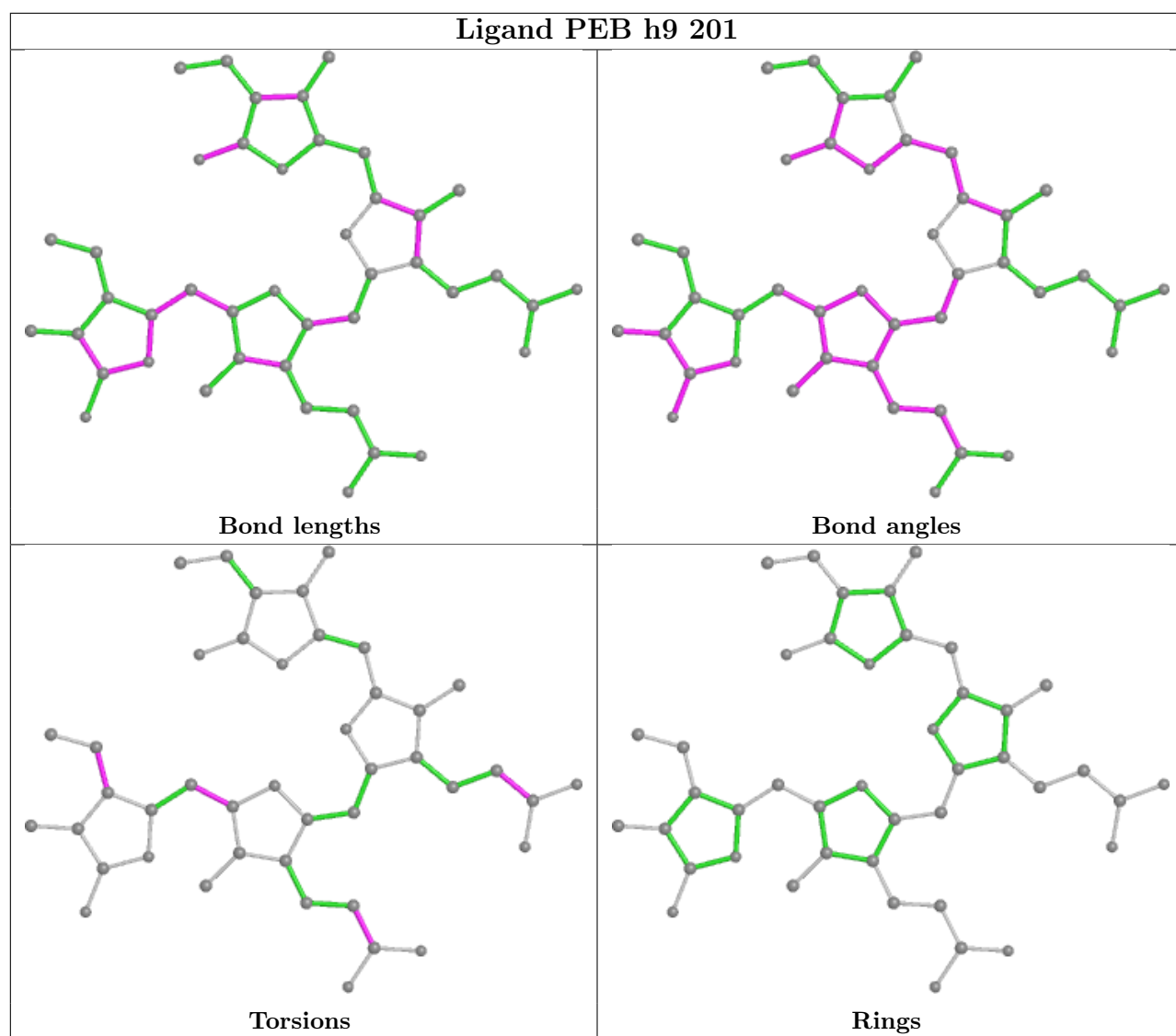


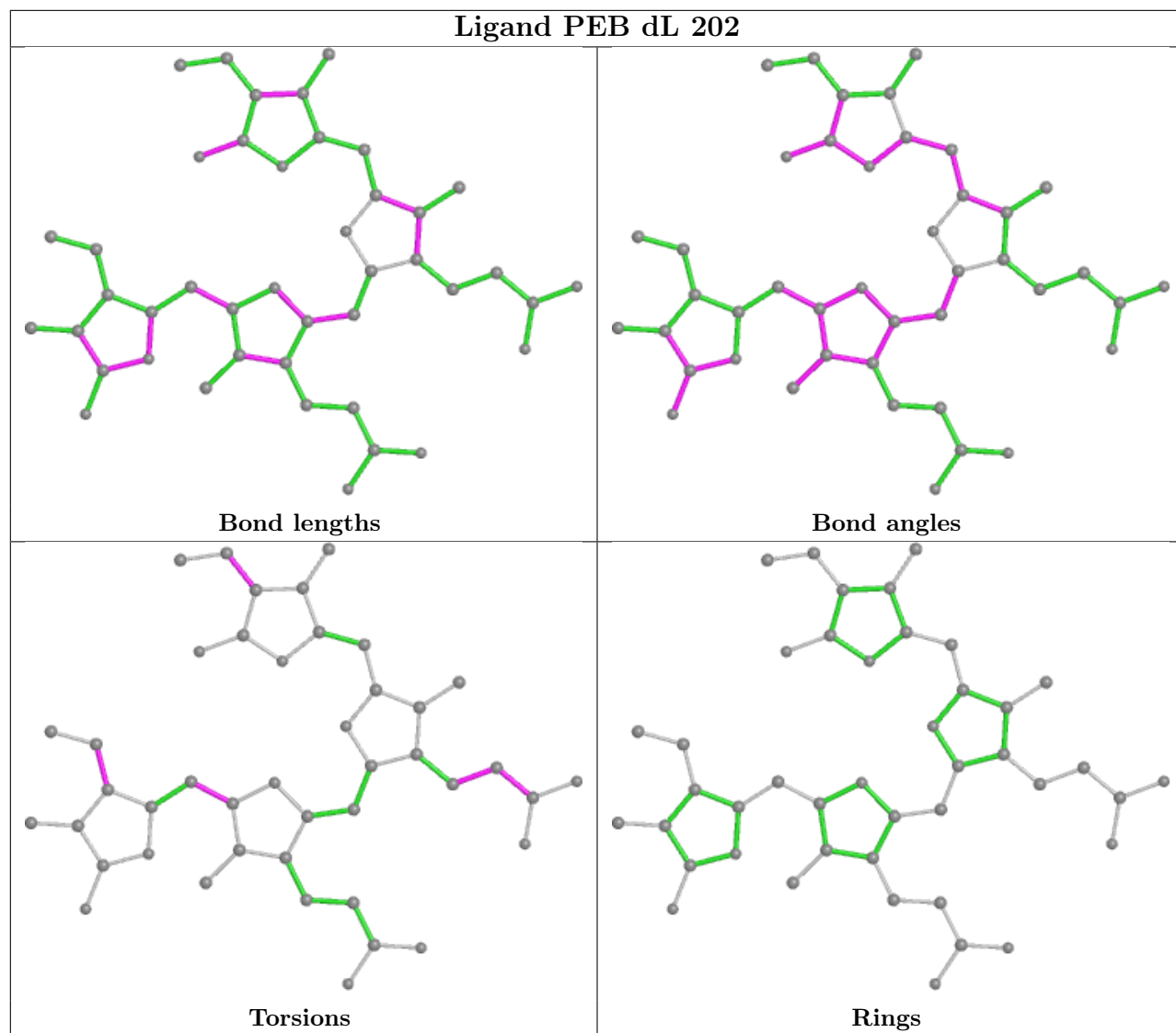
Torsions

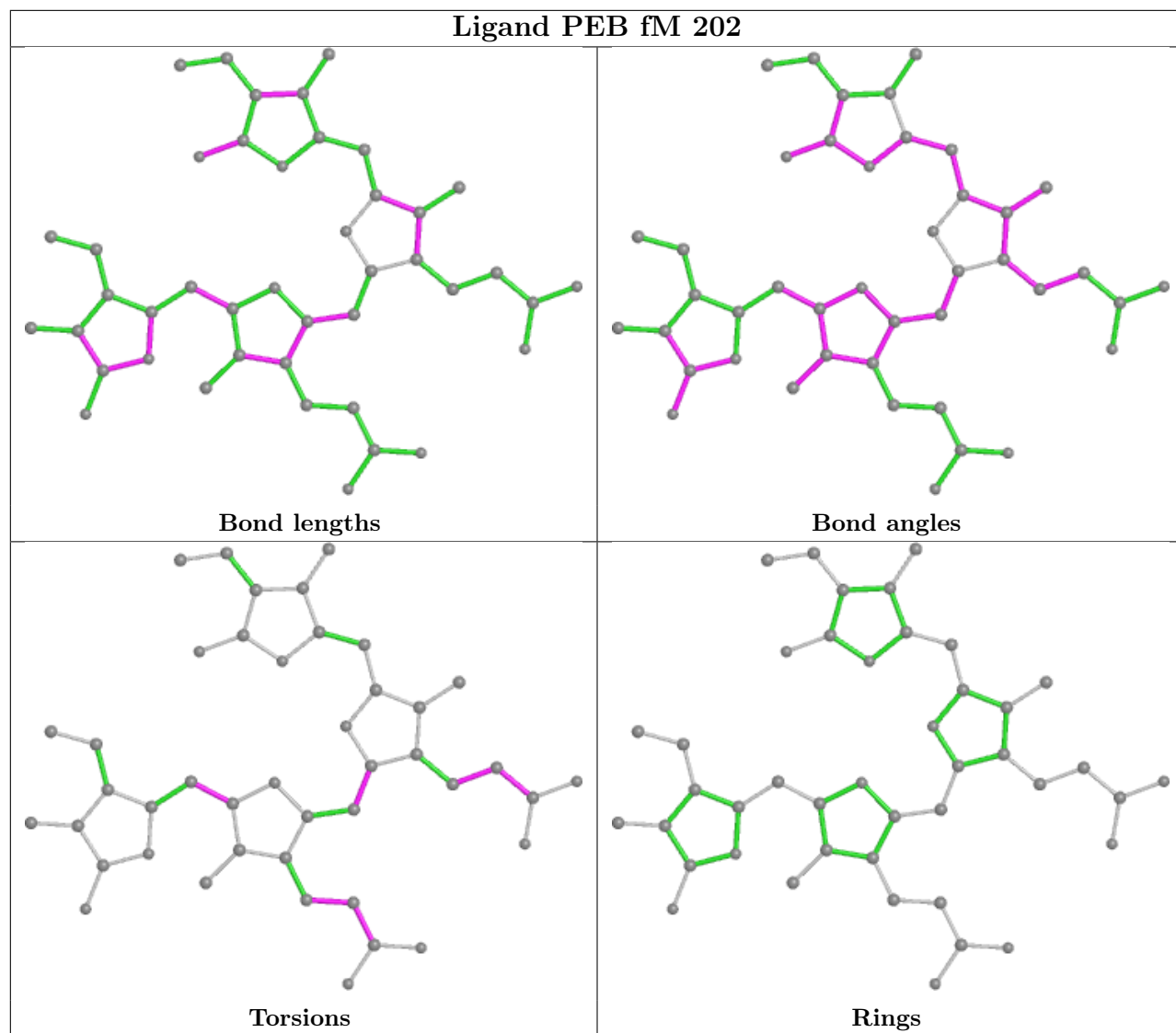


Rings

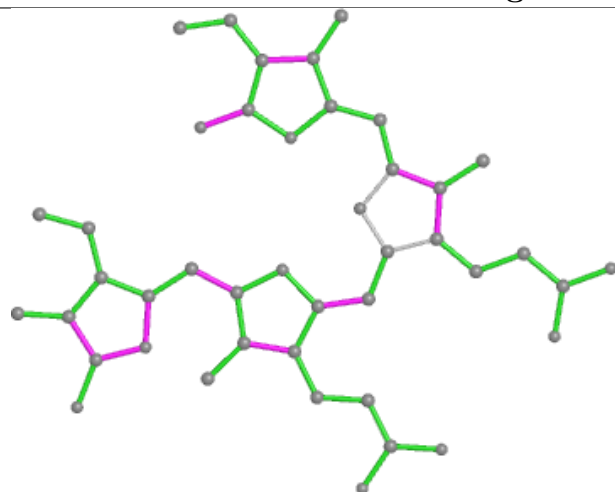




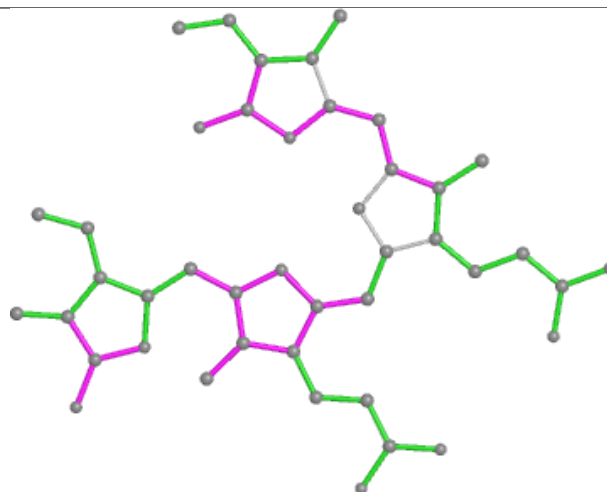




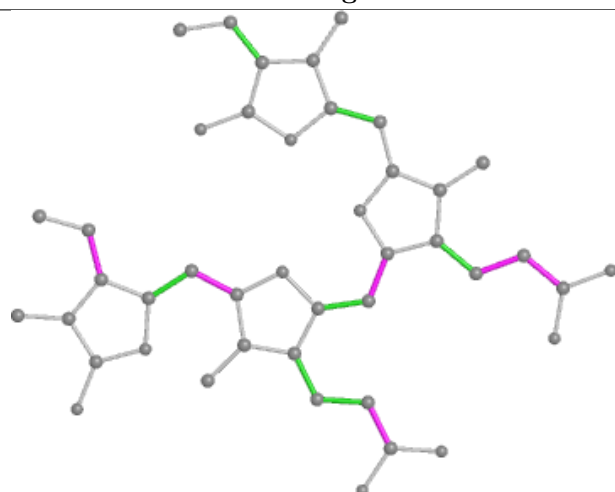
Ligand PEB GJ 202



Bond lengths



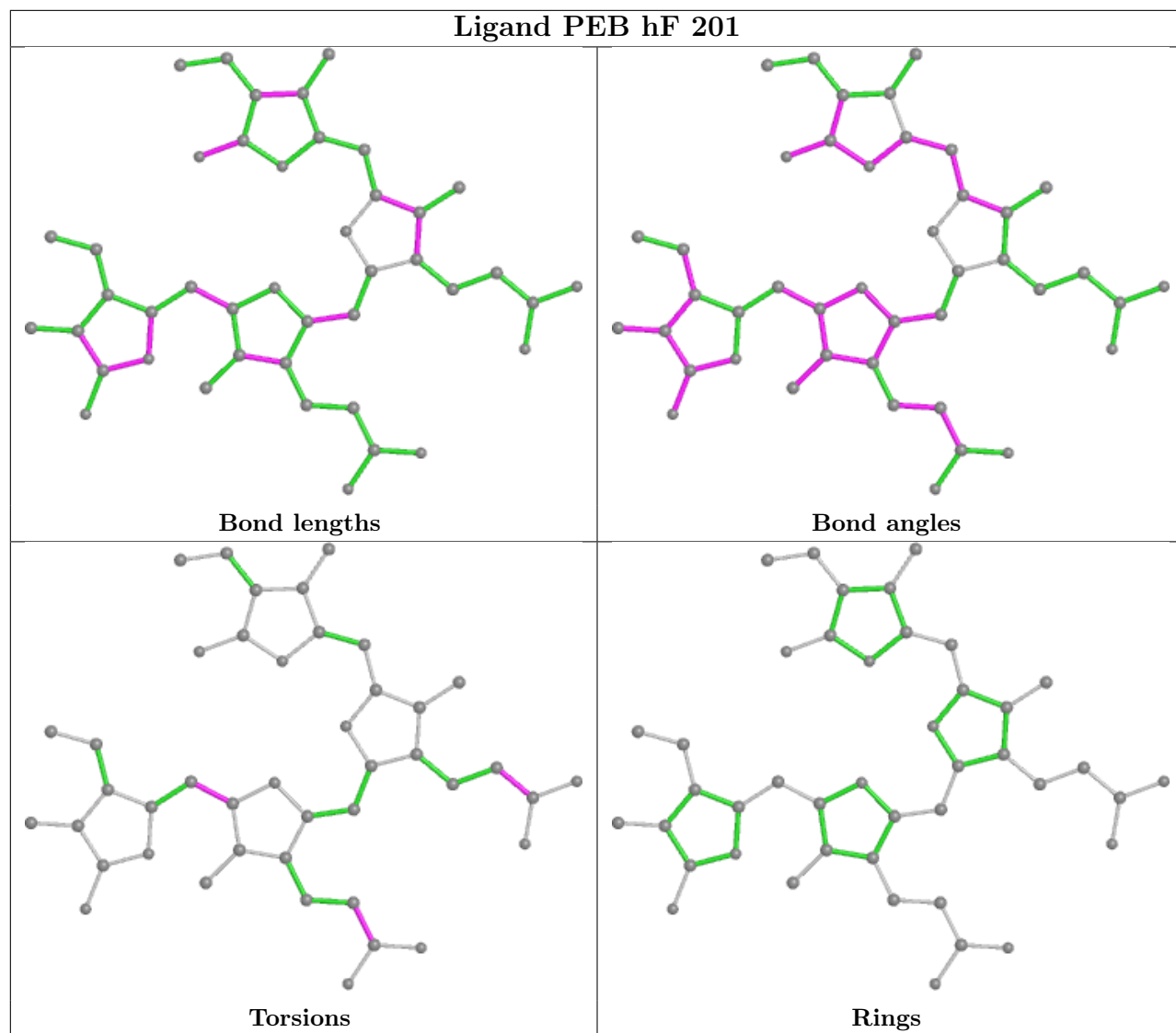
Bond angles

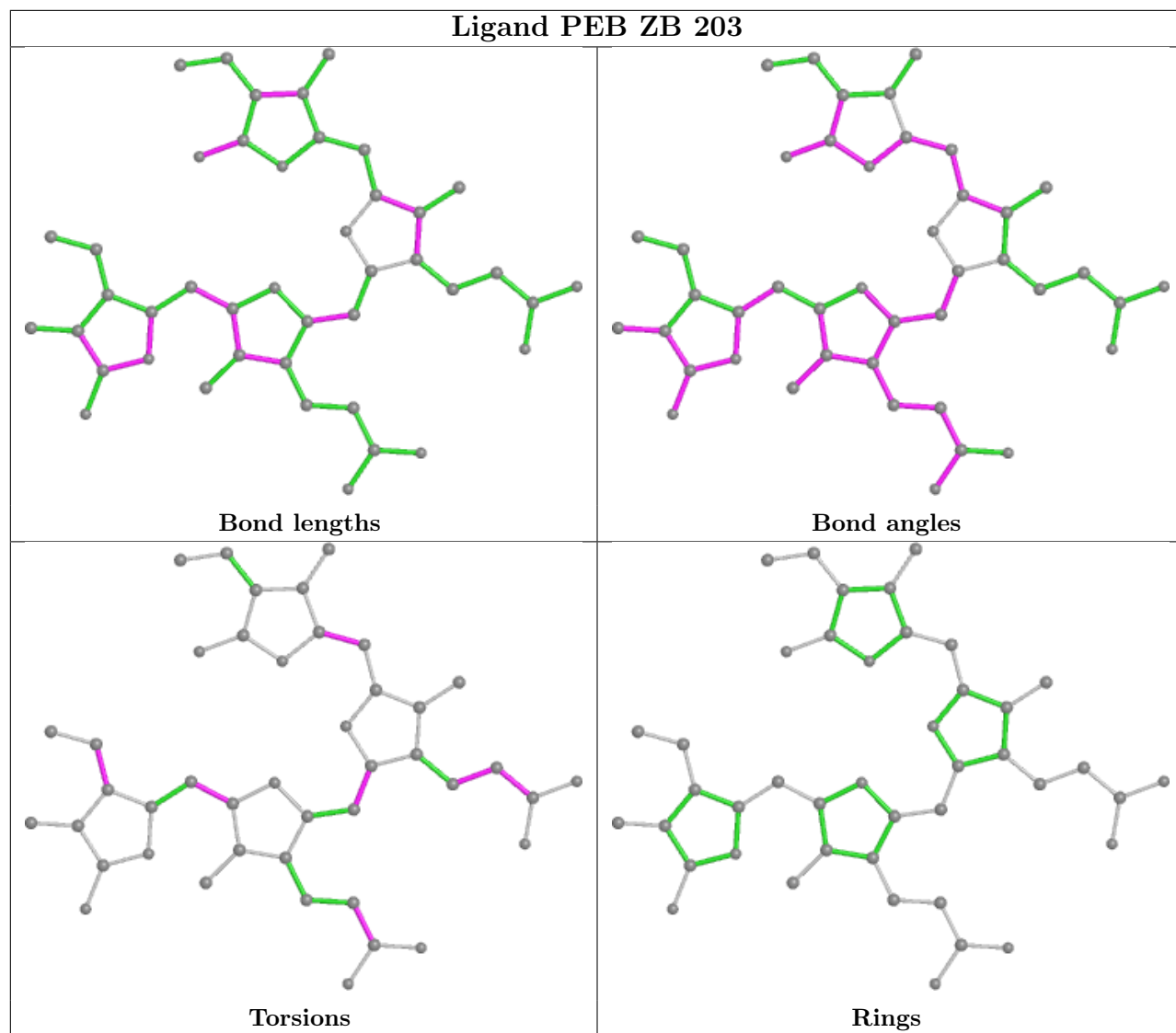


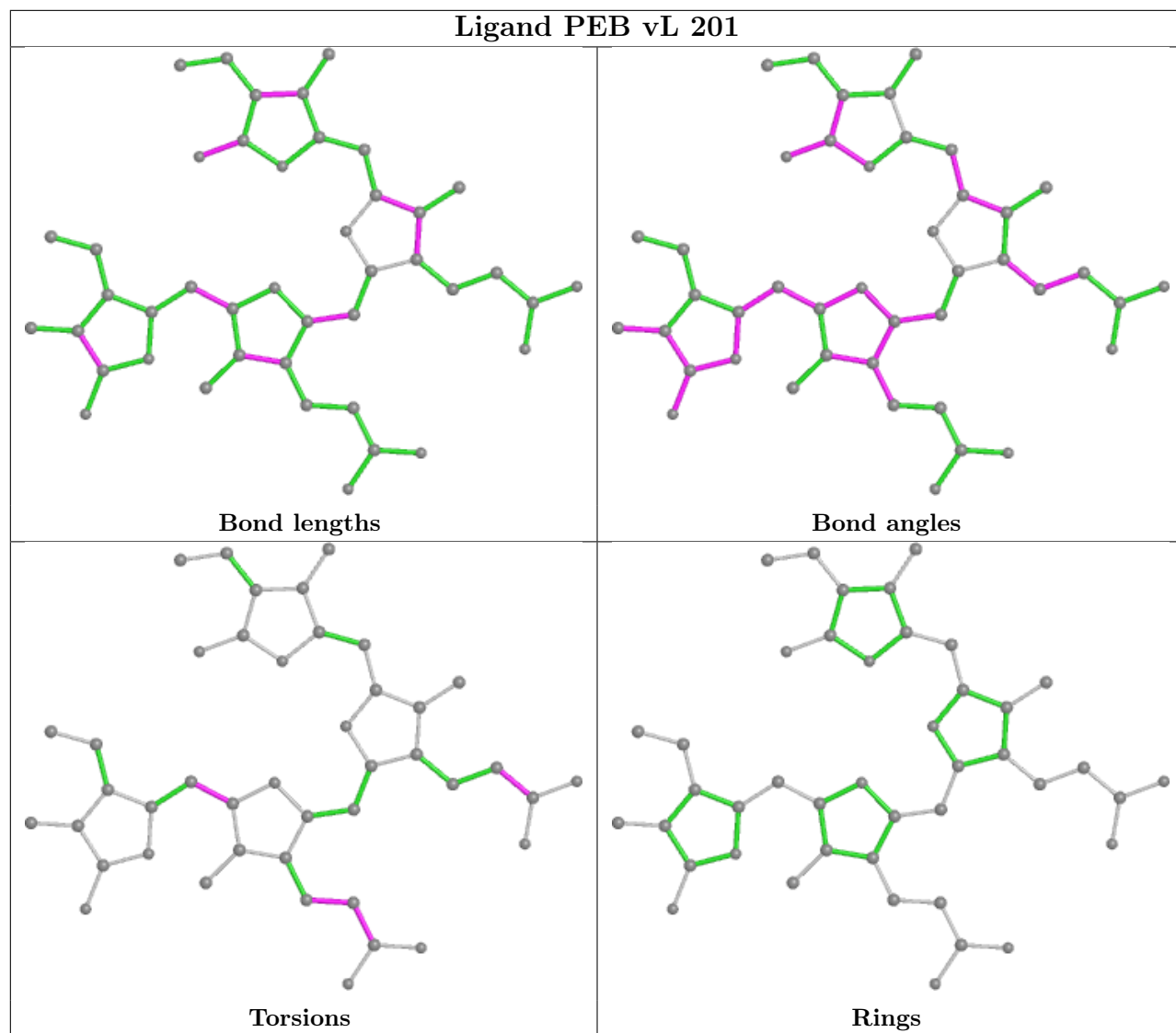
Torsions



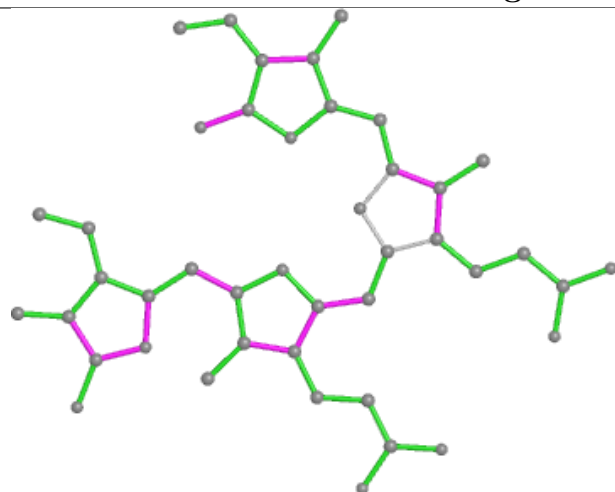
Rings



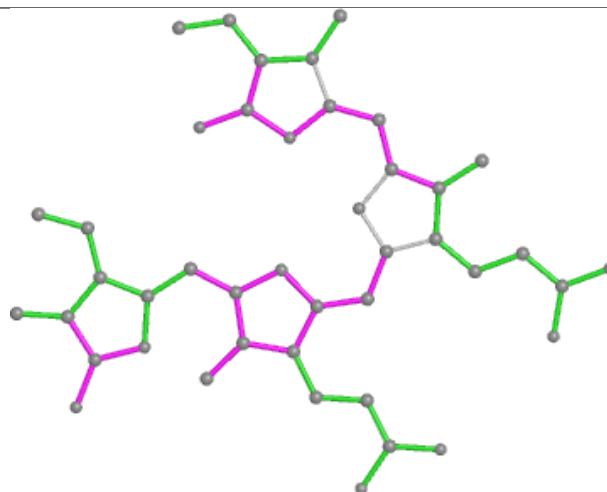




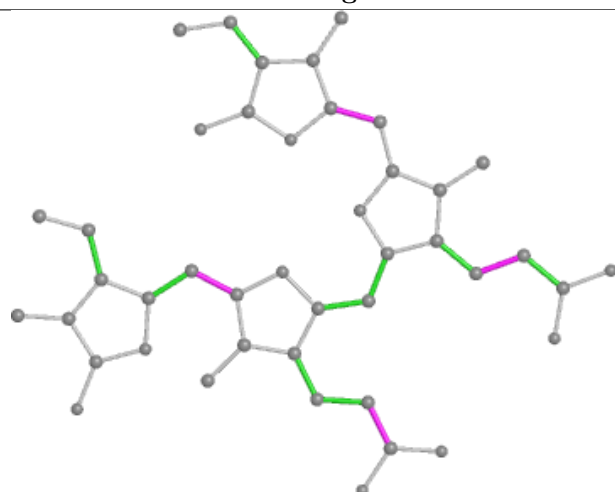
Ligand PEB KE 202



Bond lengths



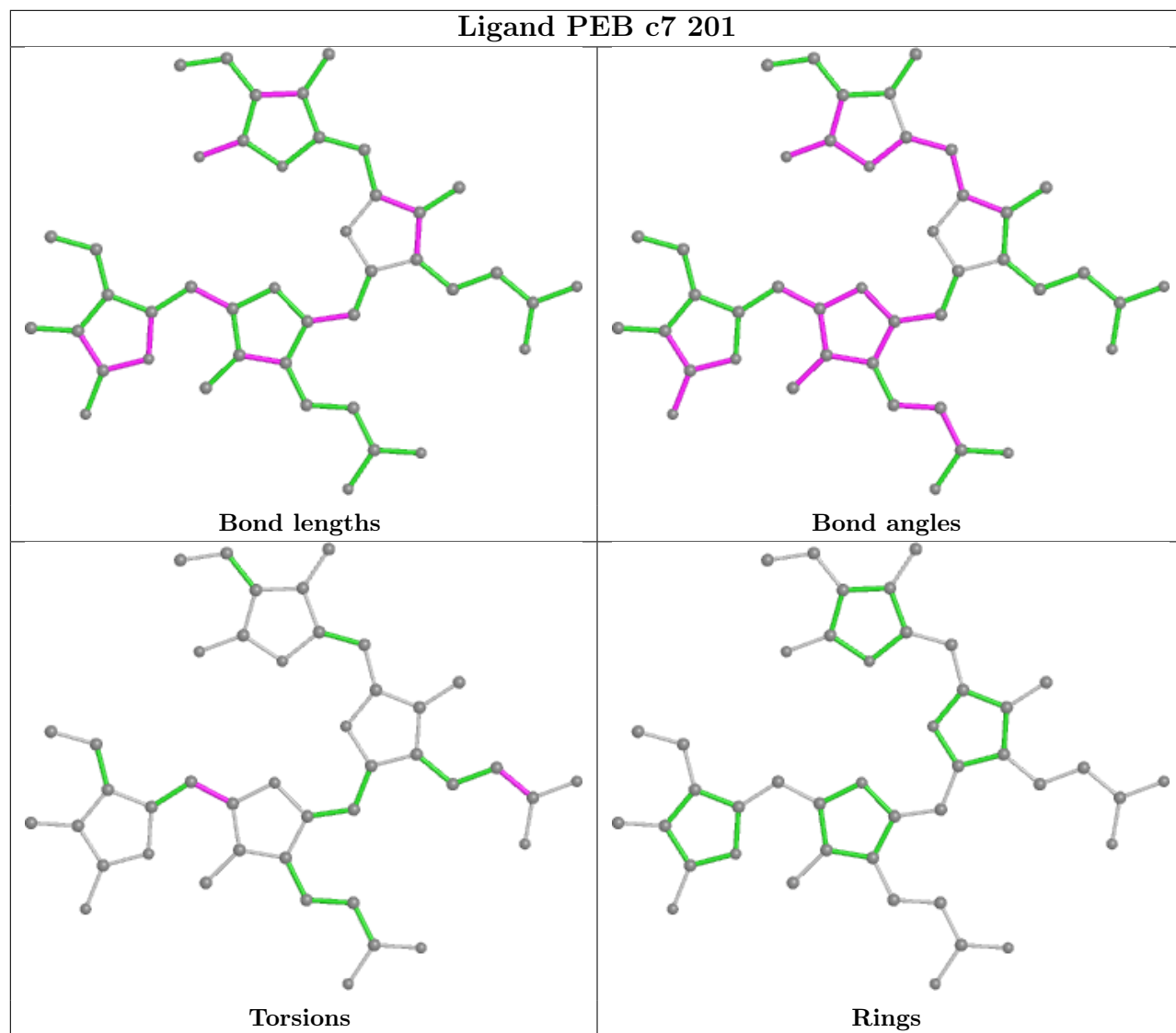
Bond angles



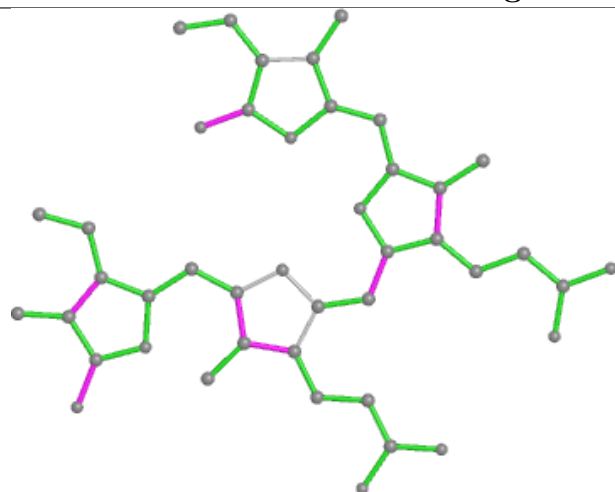
Torsions



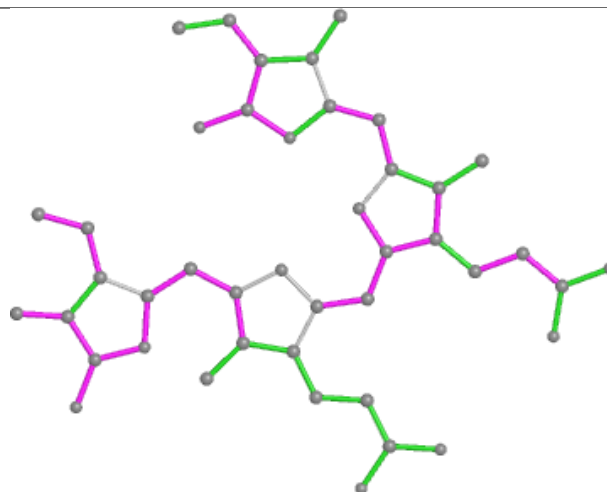
Rings



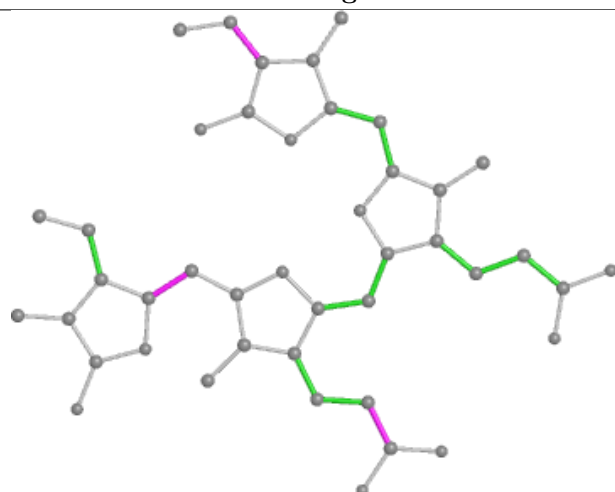
Ligand PUB wL 305



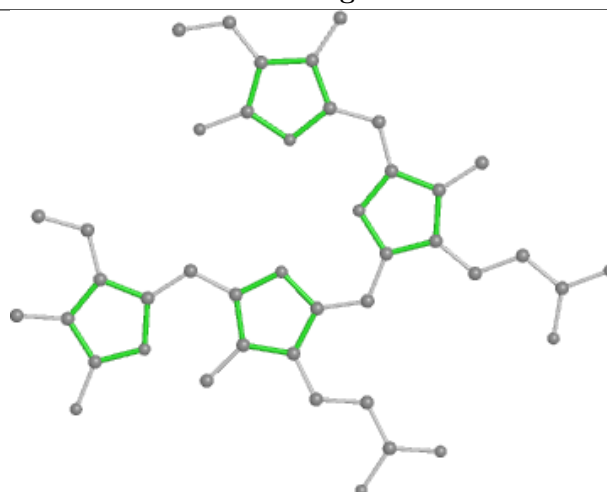
Bond lengths



Bond angles

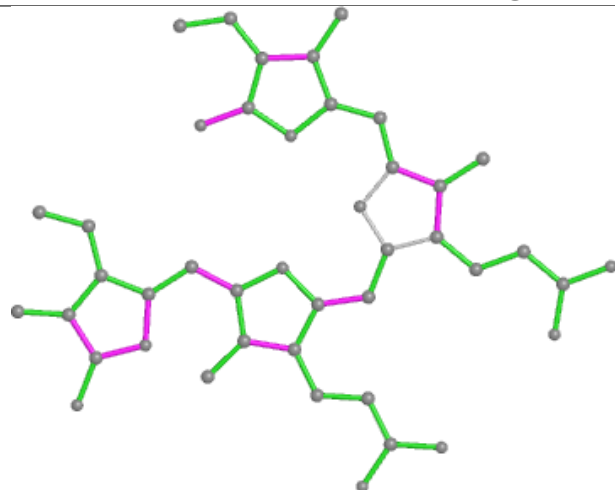


Torsions

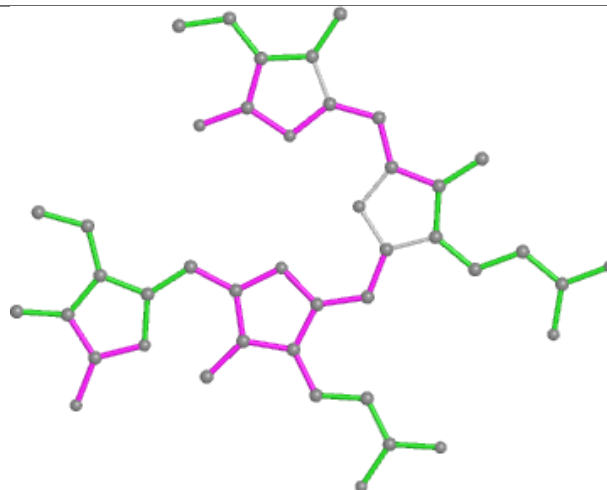


Rings

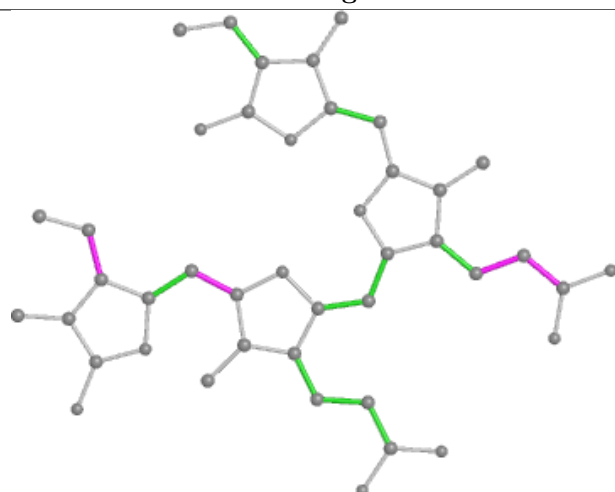
Ligand PEB PF 202



Bond lengths



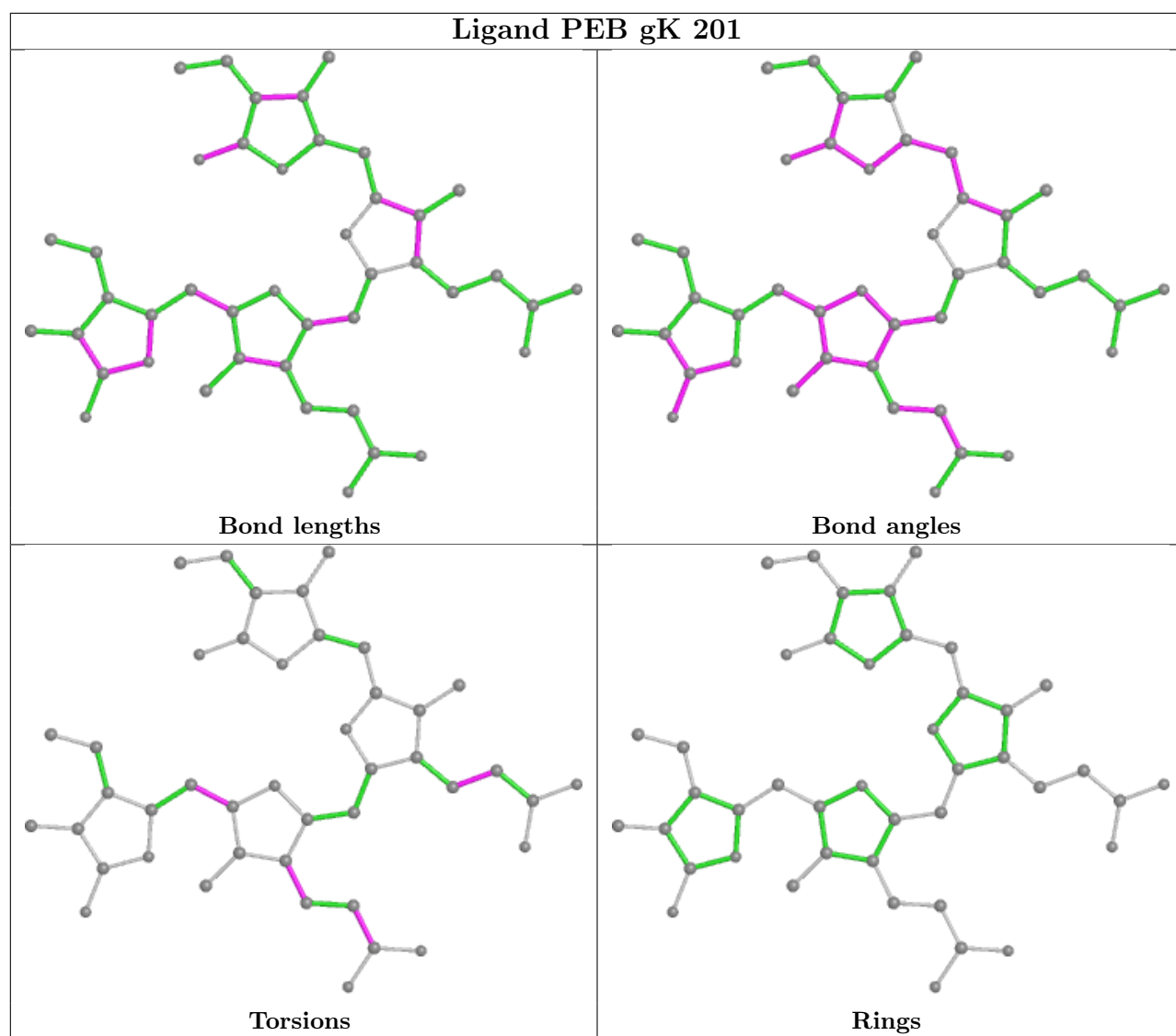
Bond angles



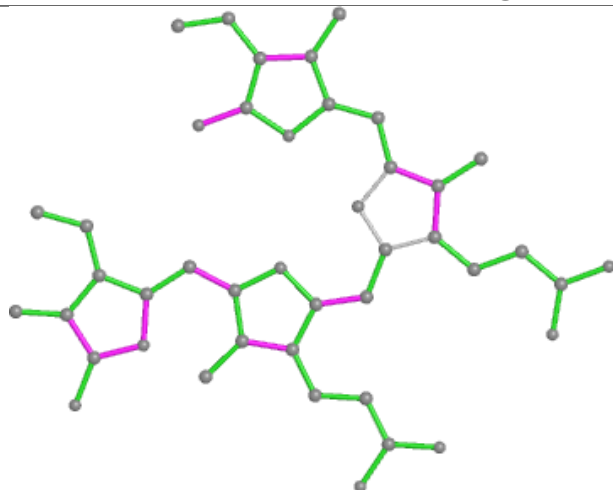
Torsions



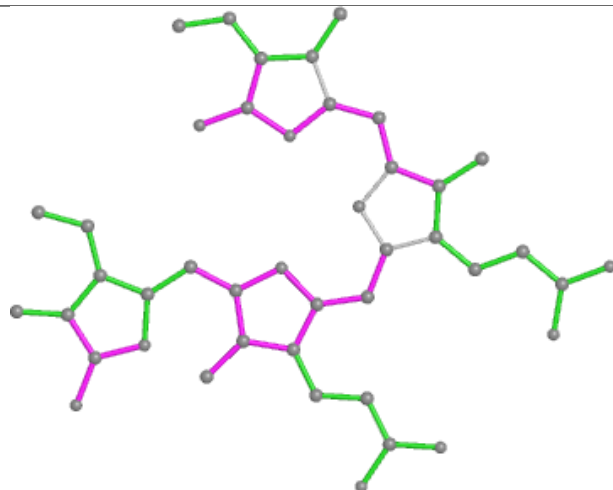
Rings



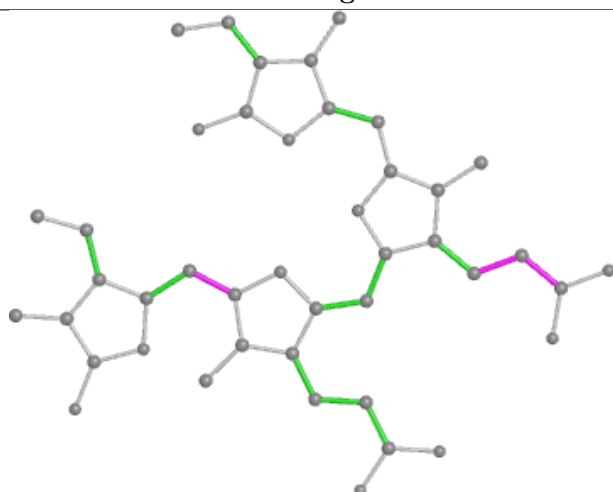
Ligand PEB KM 201



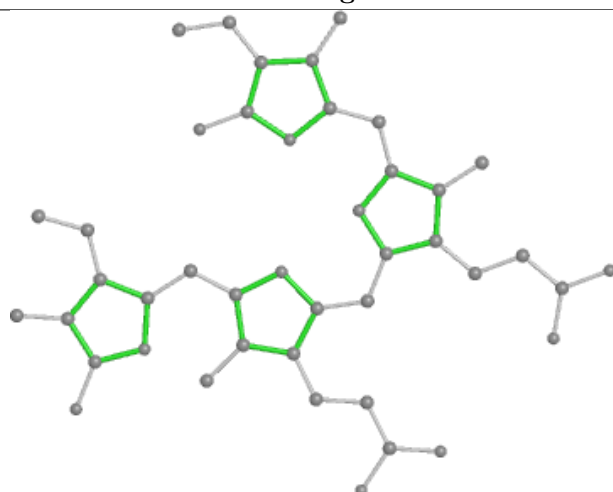
Bond lengths



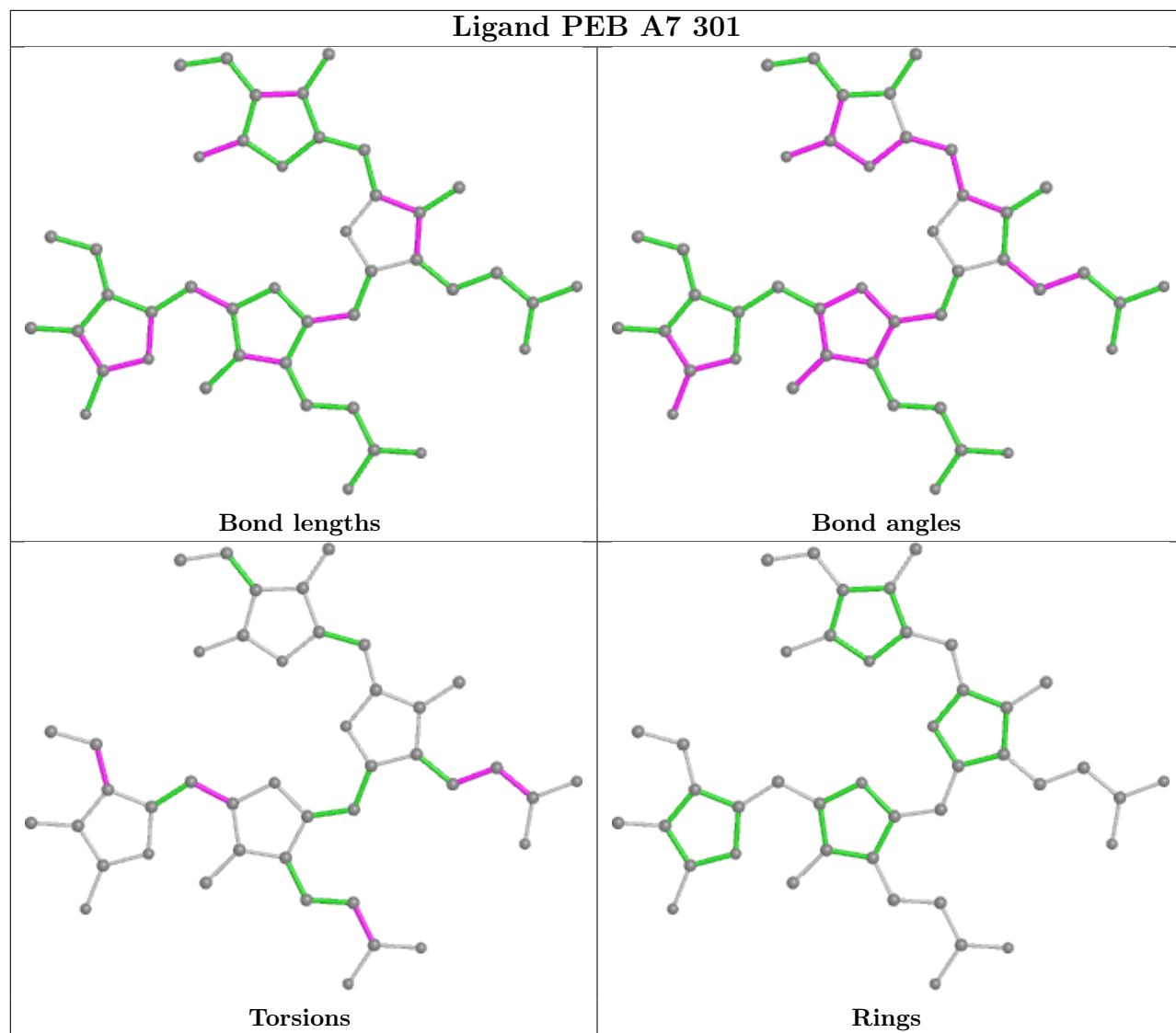
Bond angles



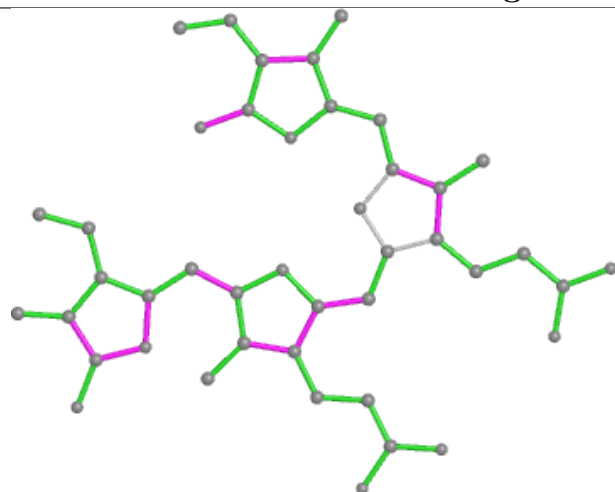
Torsions



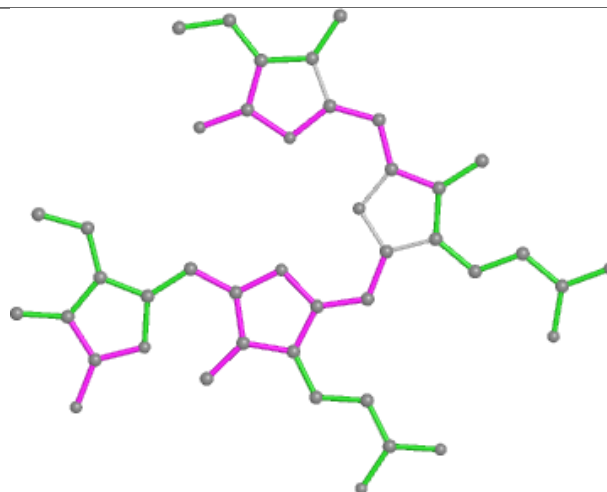
Rings



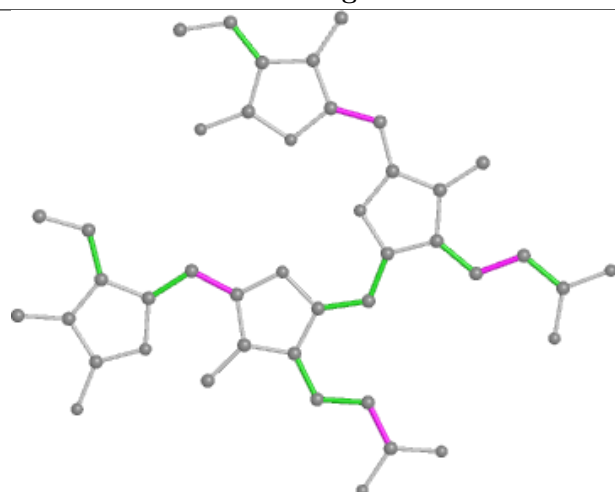
Ligand PEB KC 202



Bond lengths



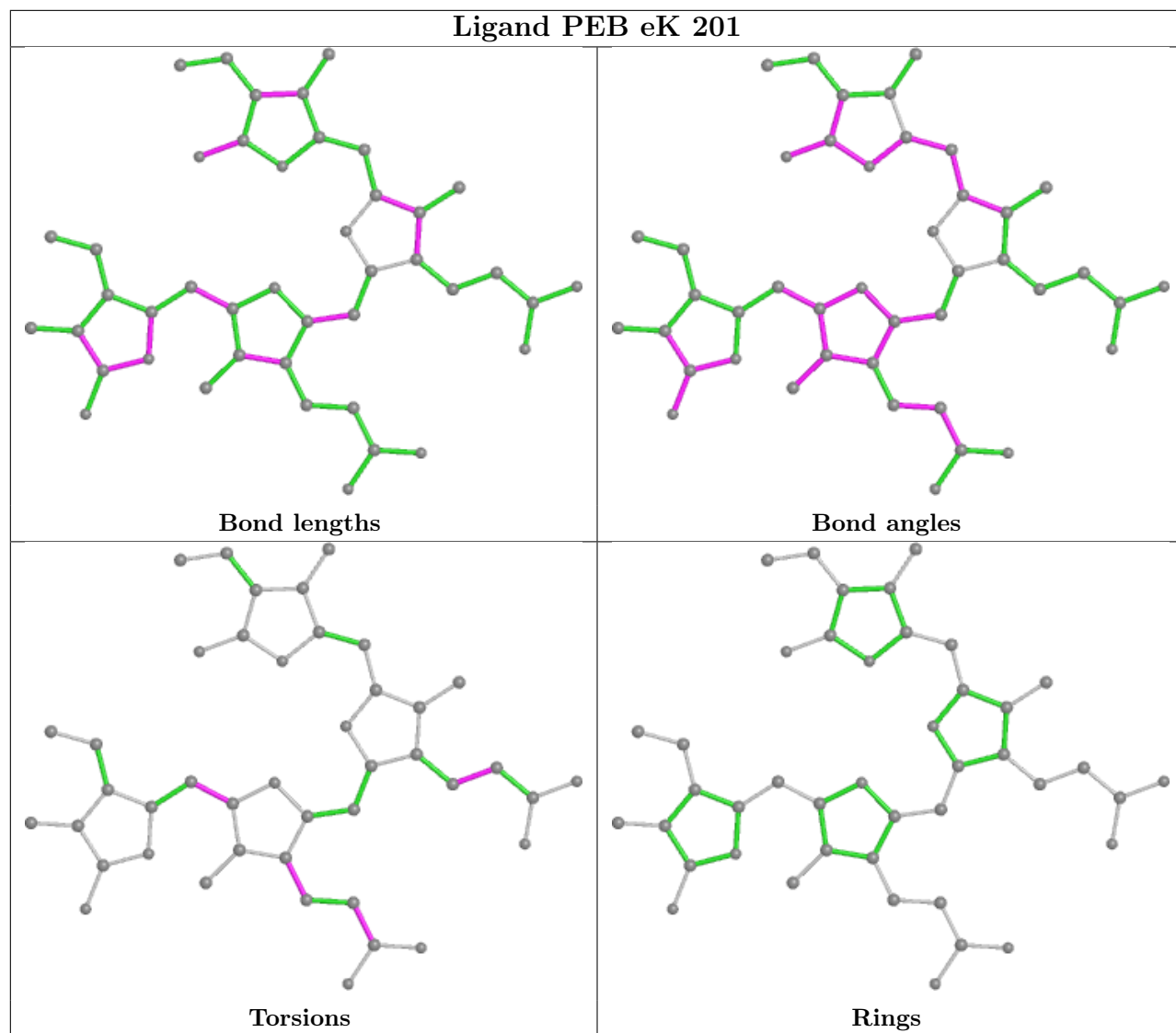
Bond angles



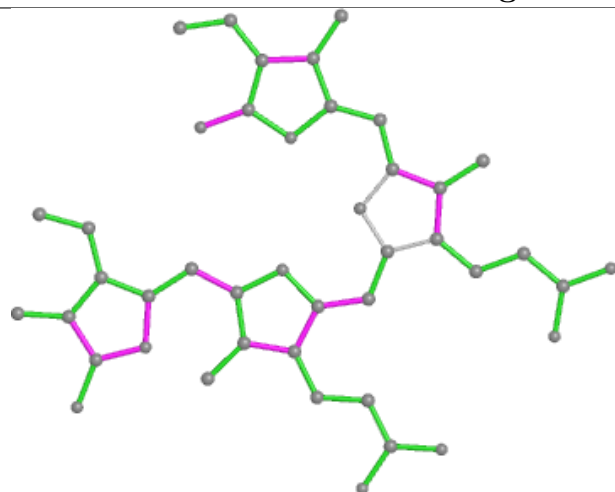
Torsions



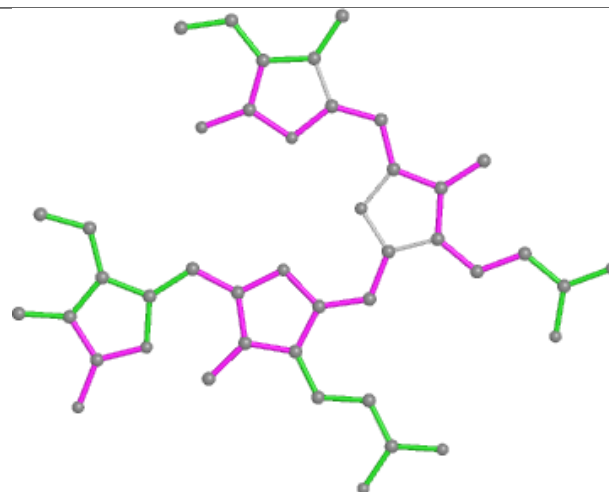
Rings



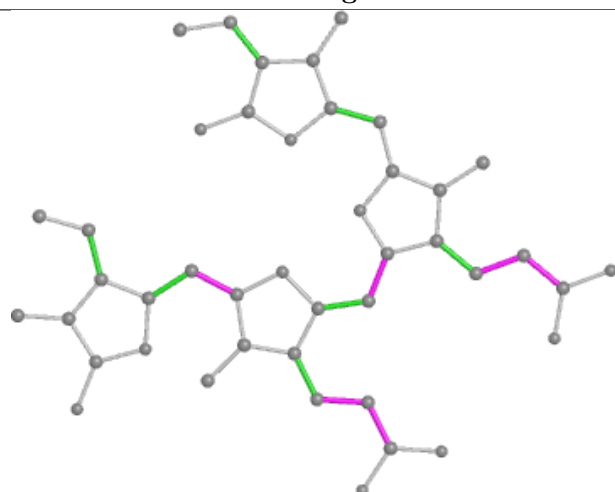
Ligand PEB YM 203



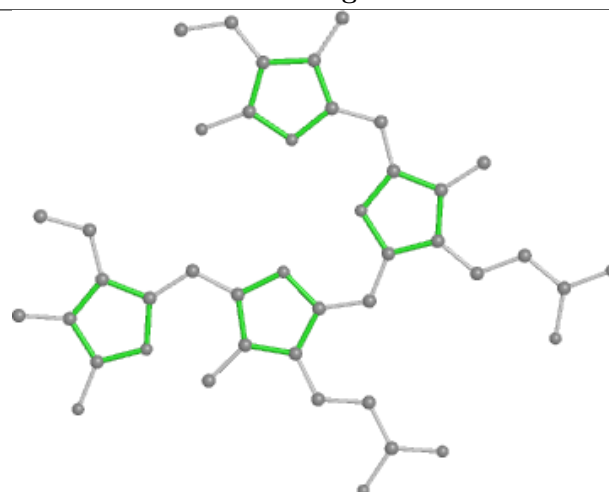
Bond lengths



Bond angles

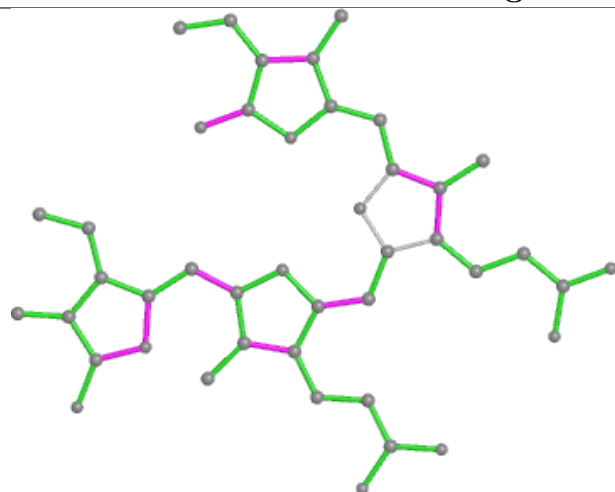


Torsions

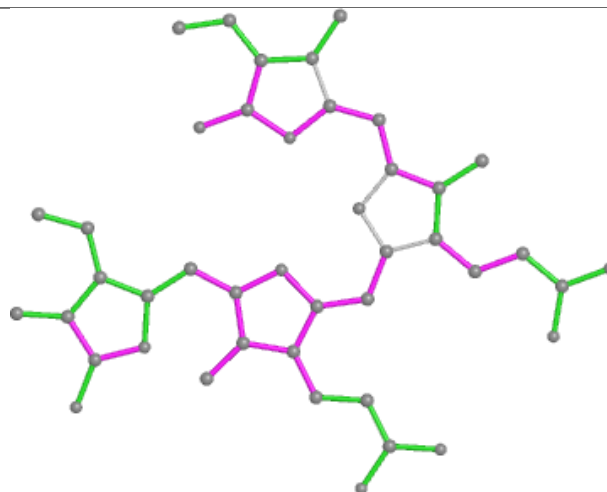


Rings

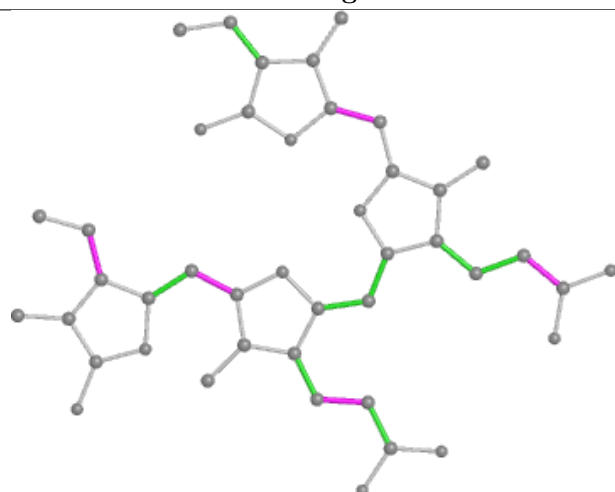
Ligand PEB YL 201



Bond lengths



Bond angles

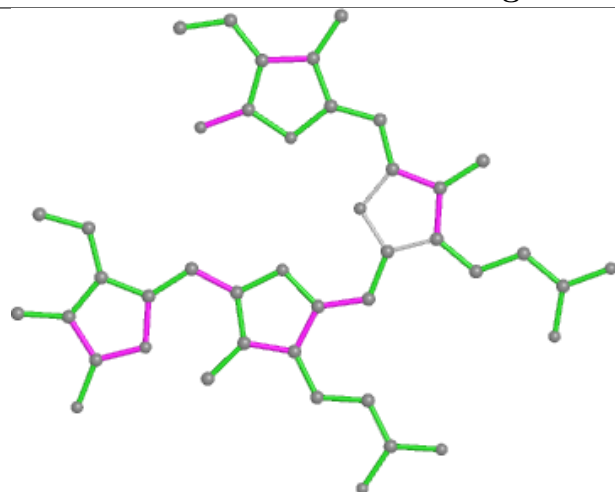


Torsions

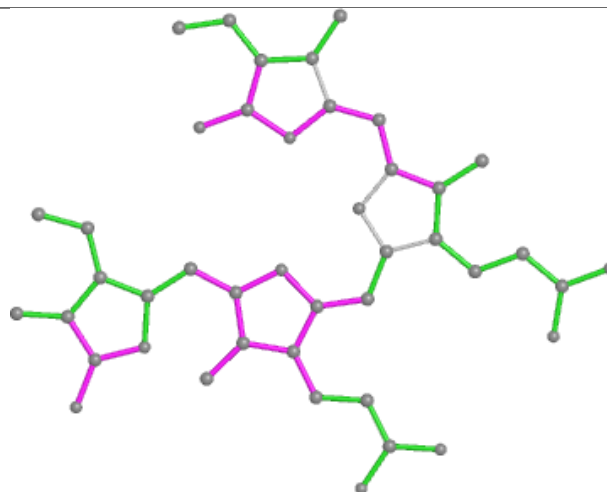


Rings

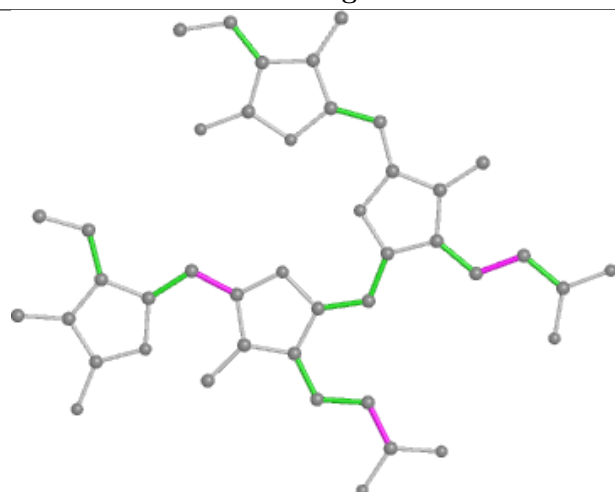
Ligand PEB HO 201



Bond lengths



Bond angles

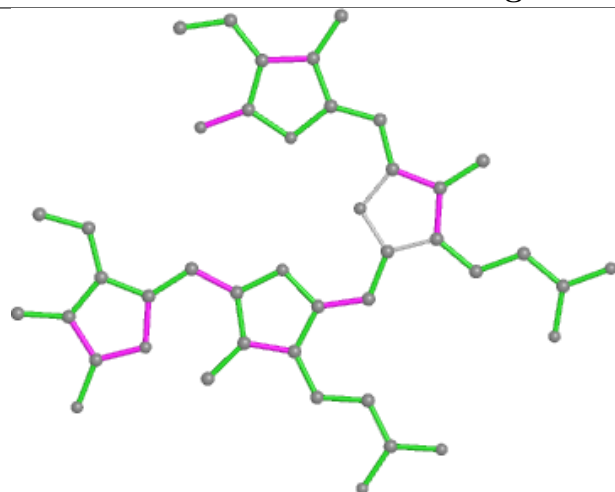


Torsions

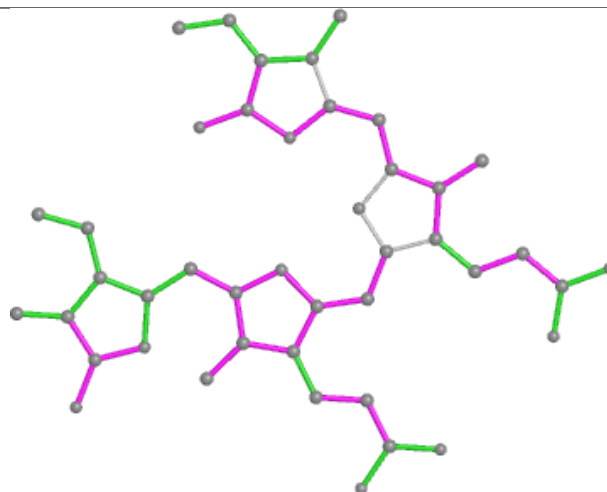


Rings

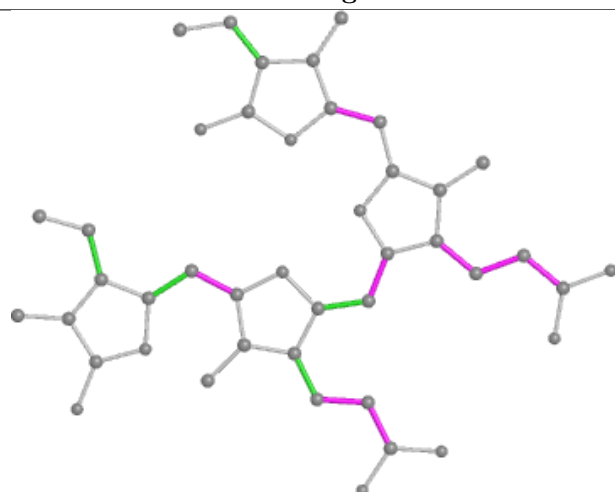
Ligand PEB YF 203



Bond lengths



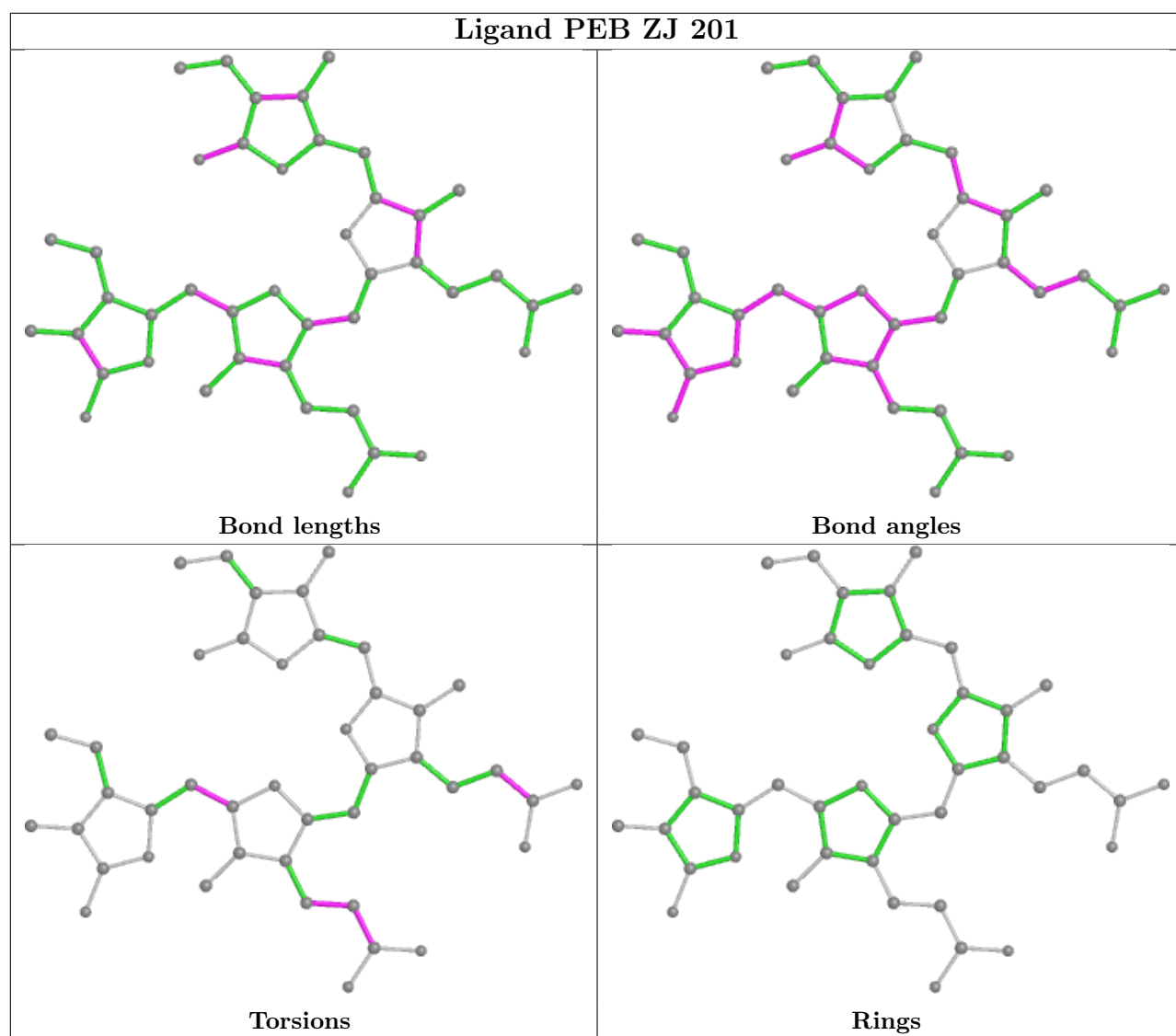
Bond angles

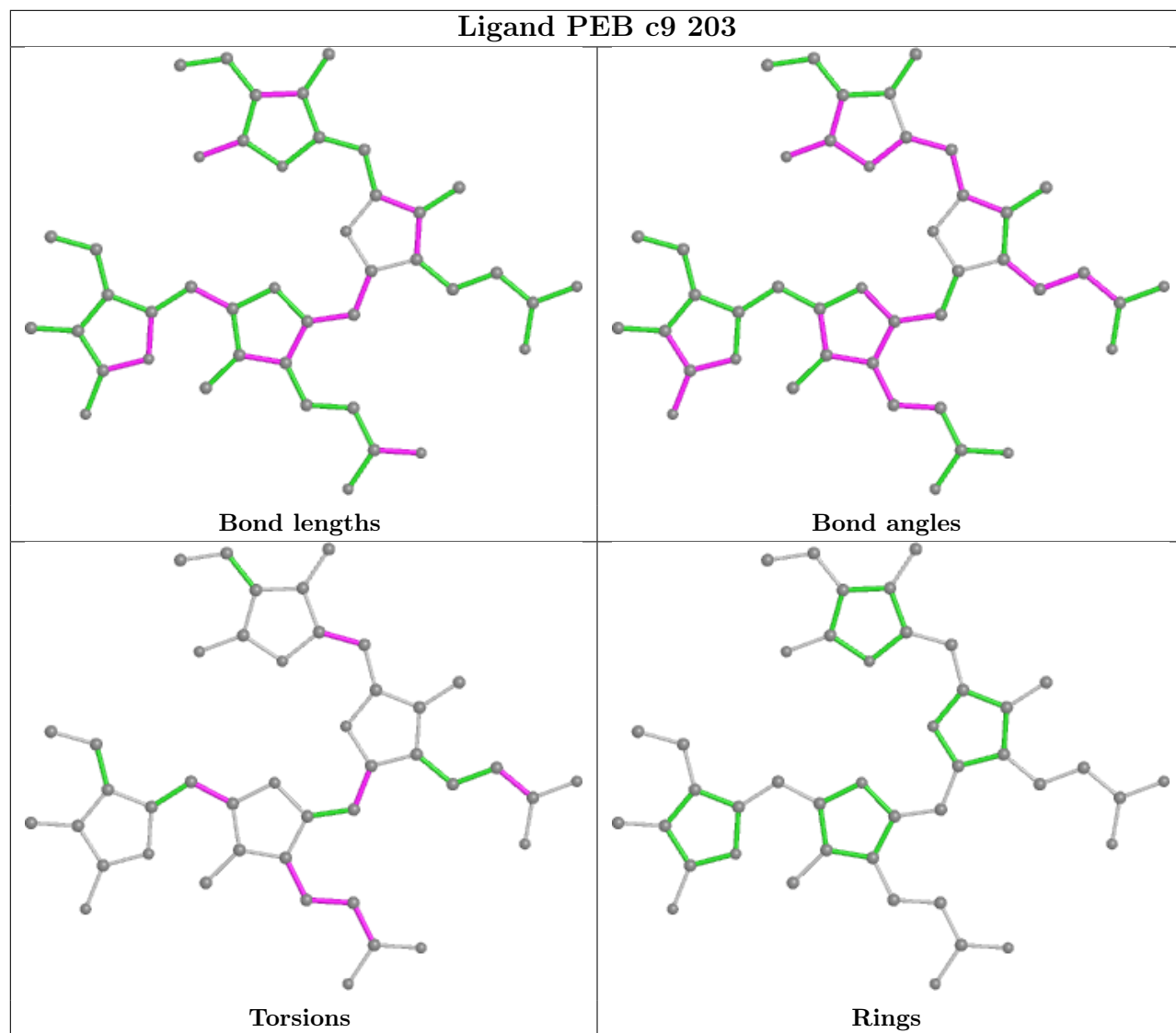


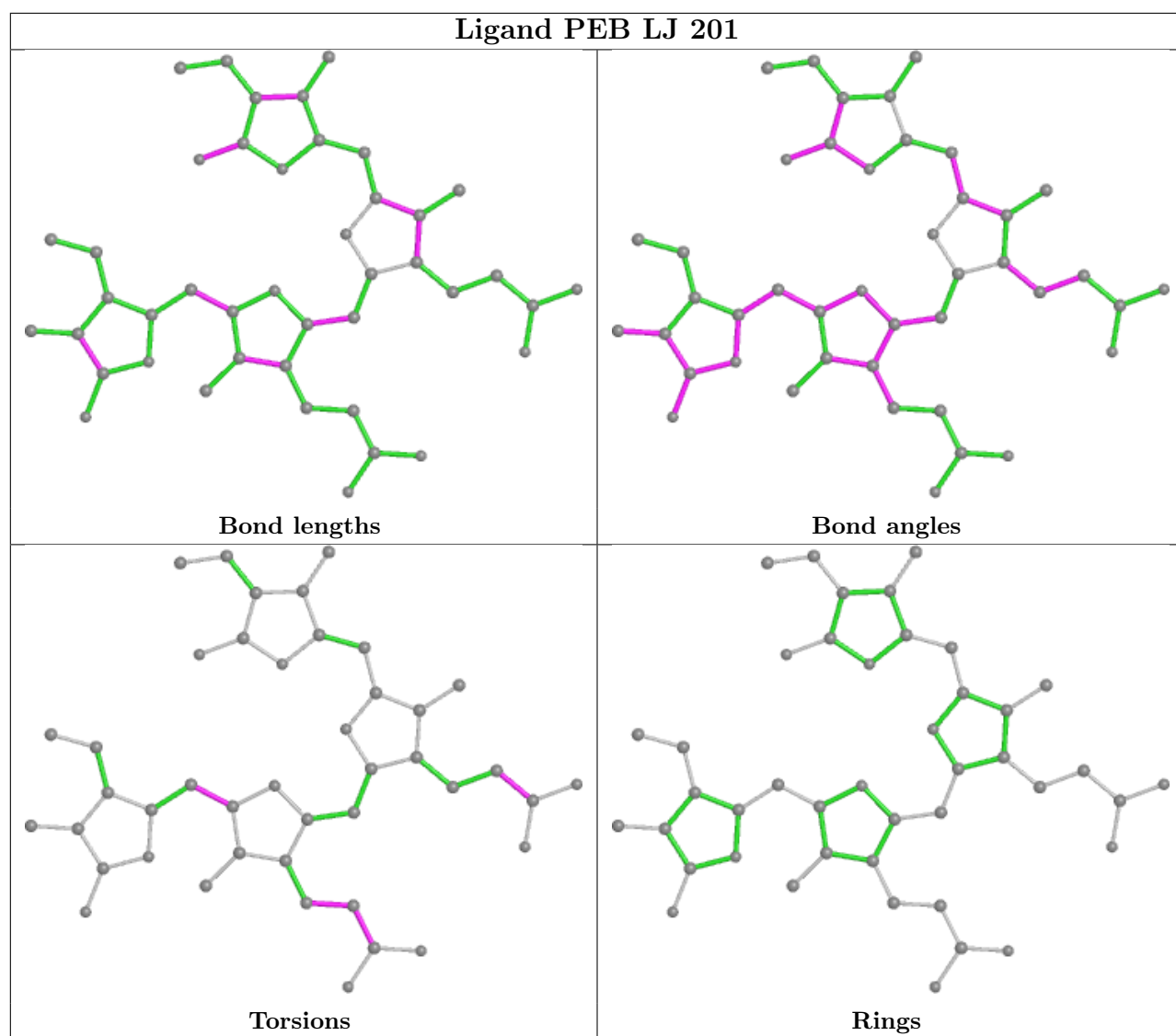
Torsions



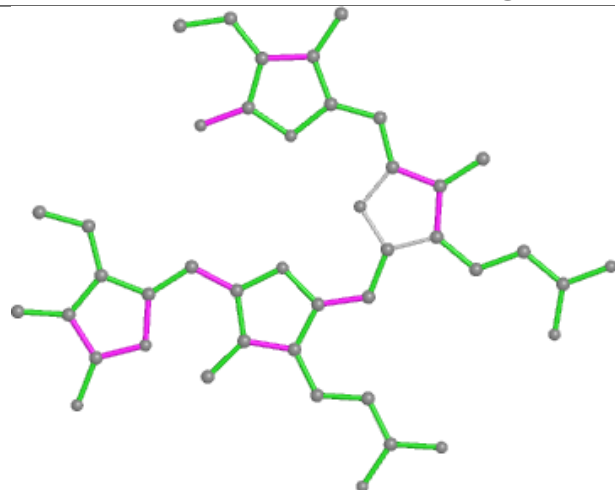
Rings



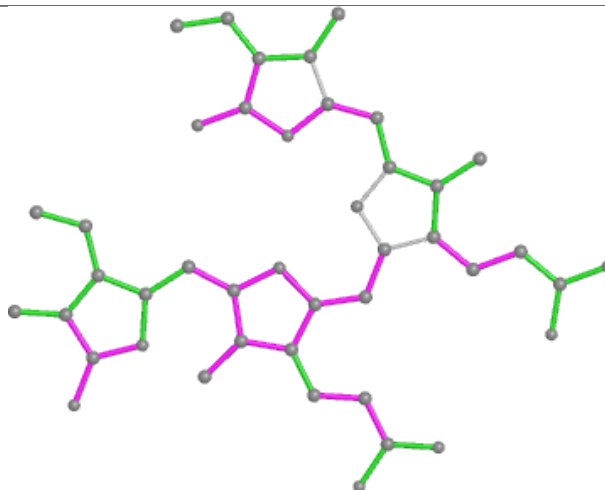




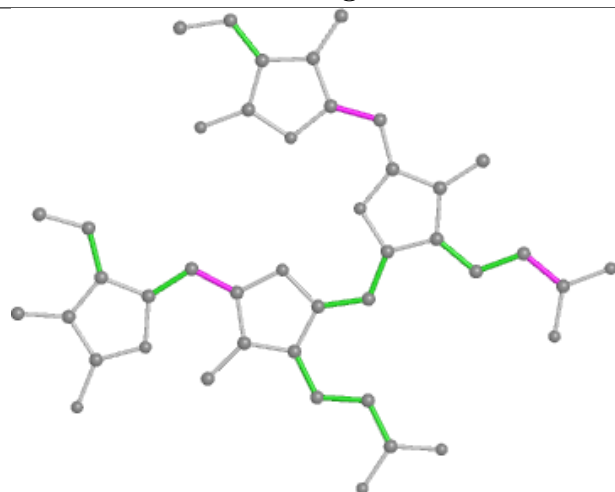
Ligand PEB DM 201



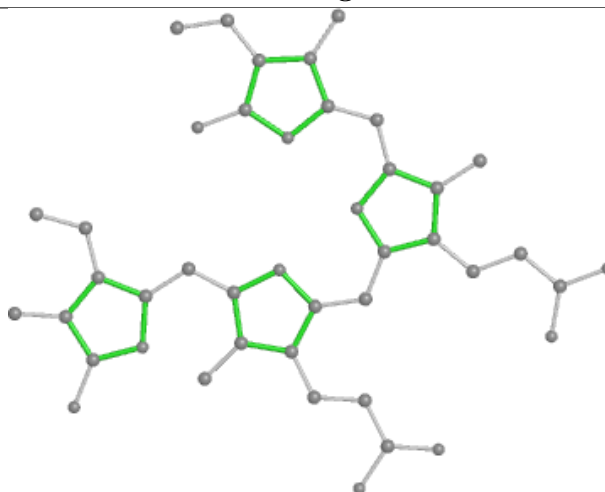
Bond lengths



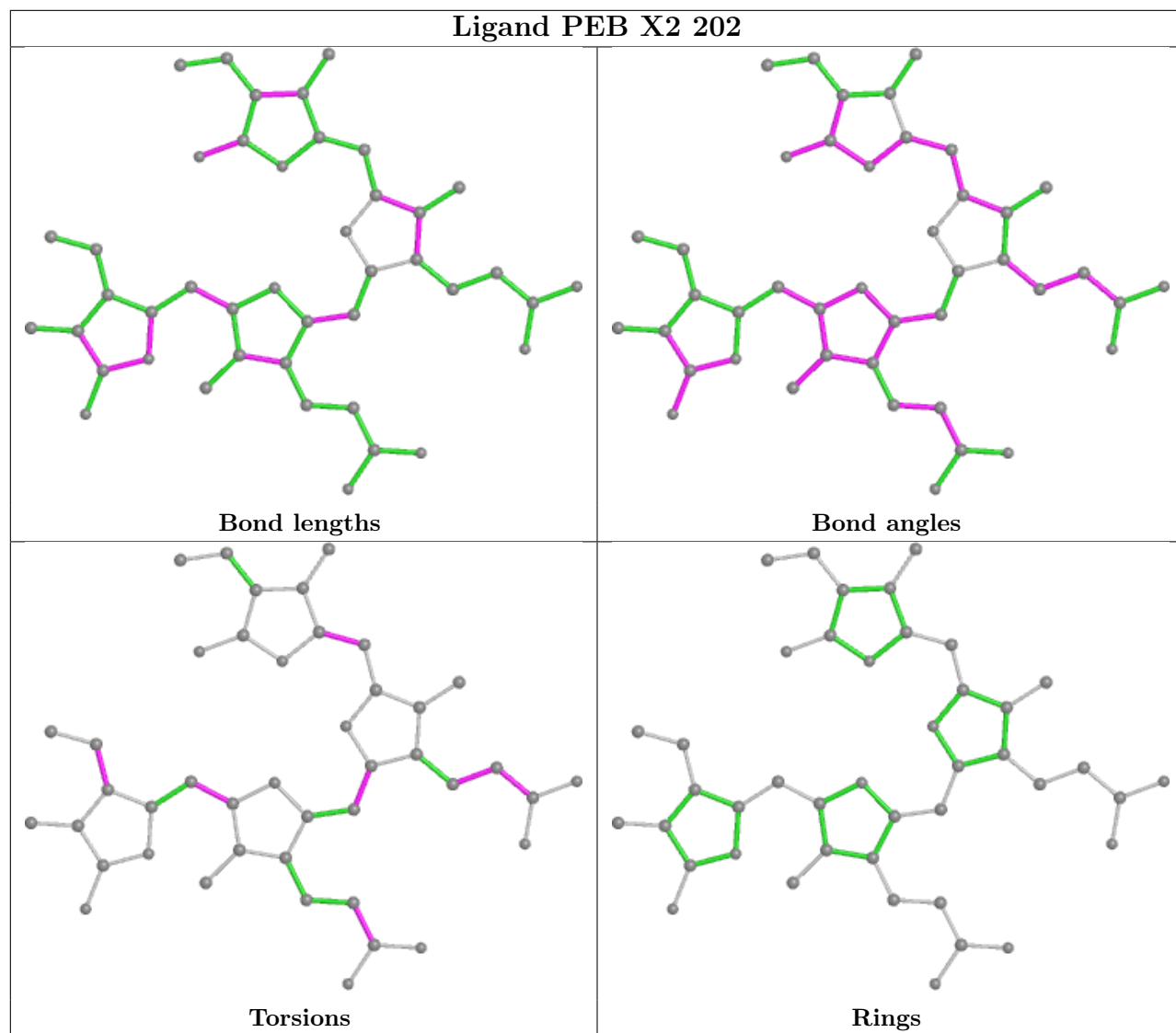
Bond angles

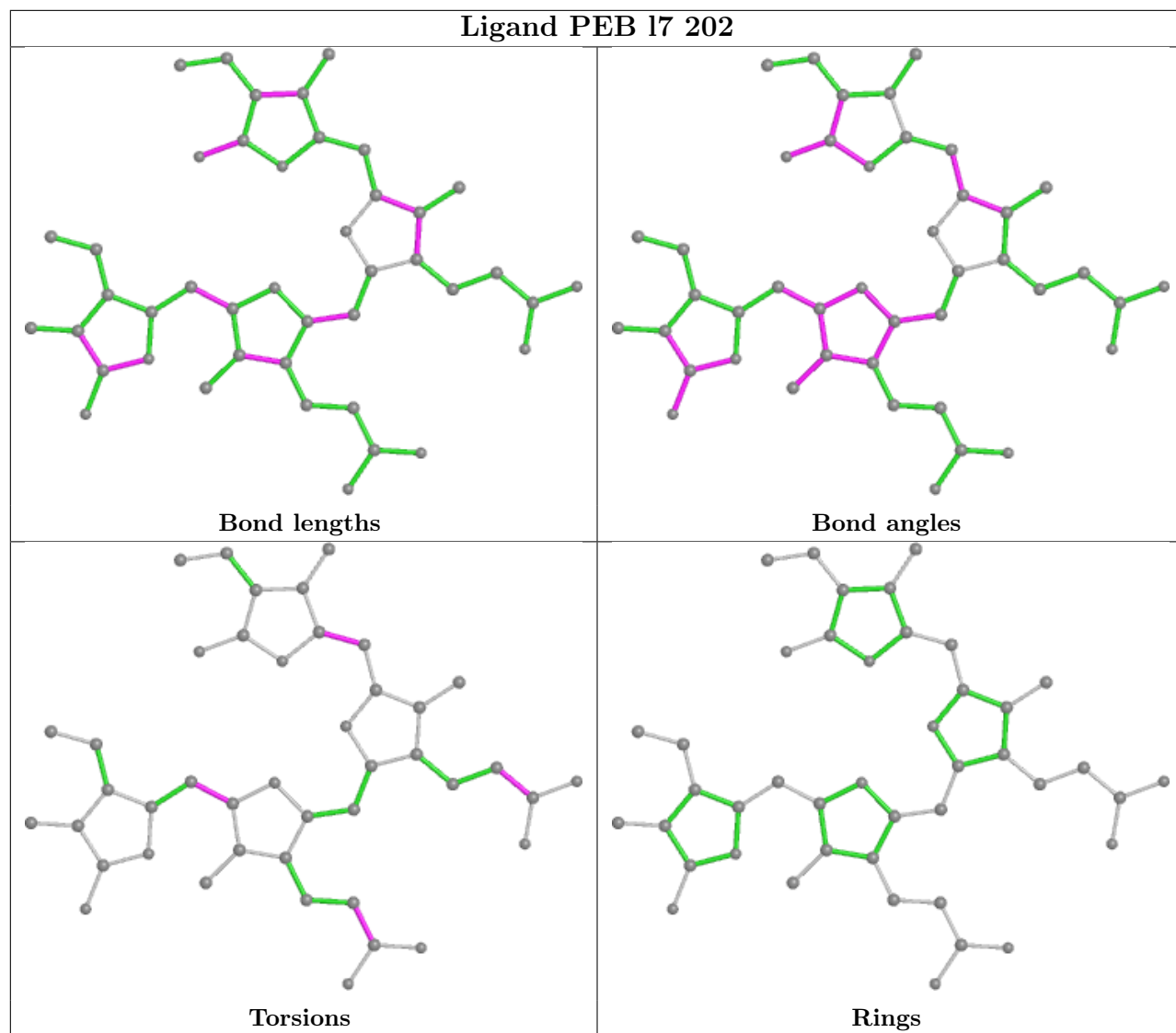


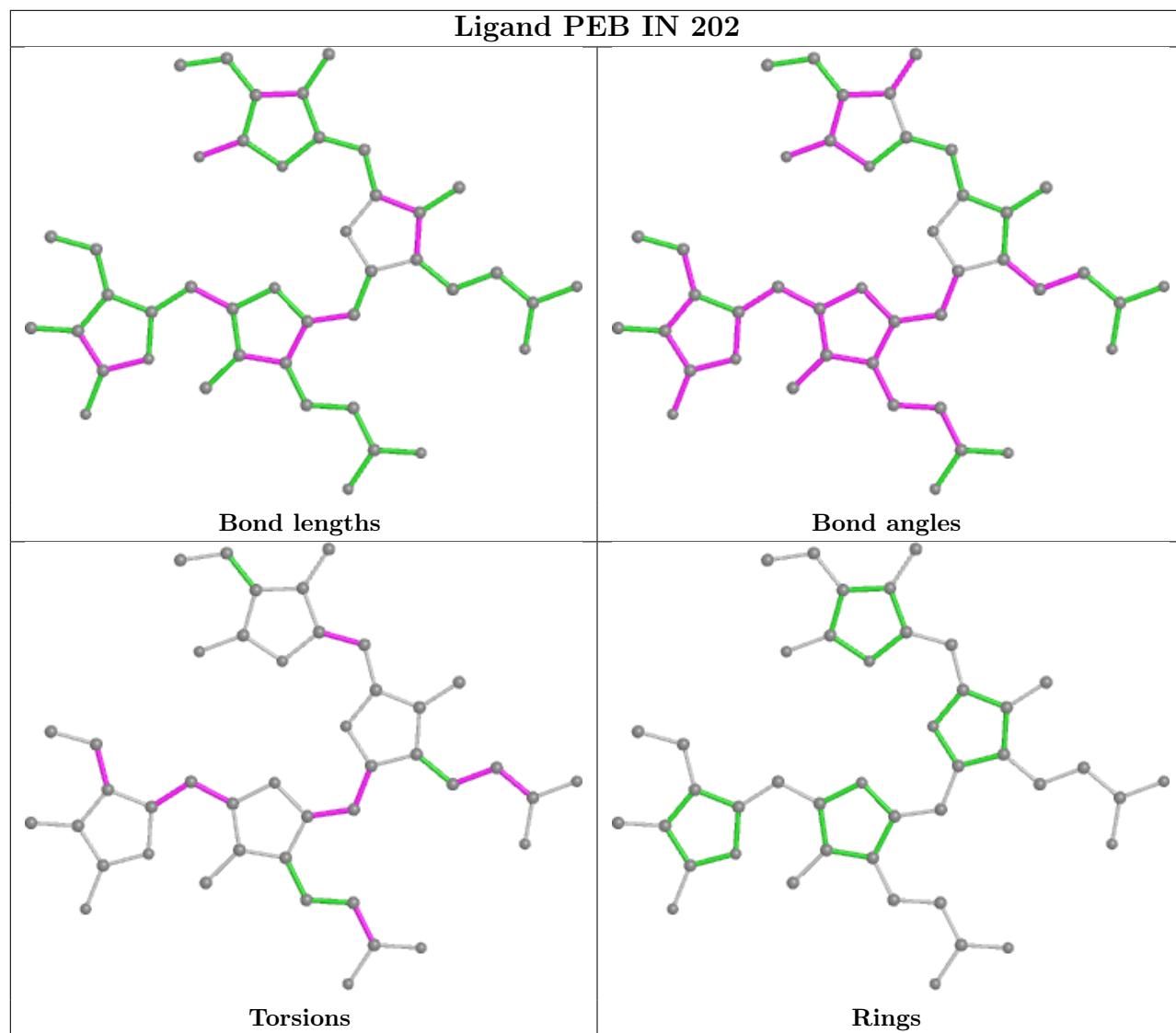
Torsions



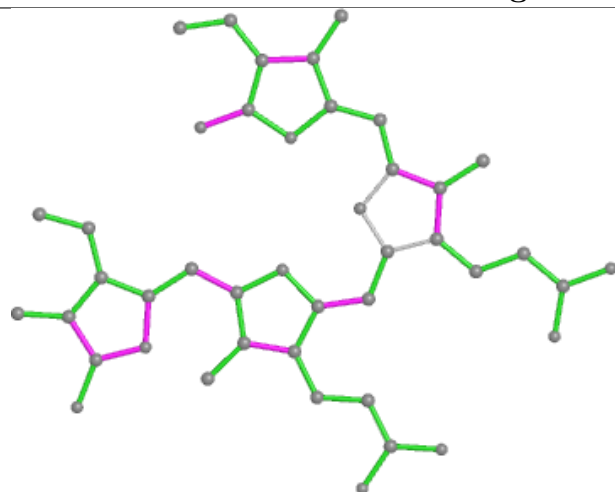
Rings



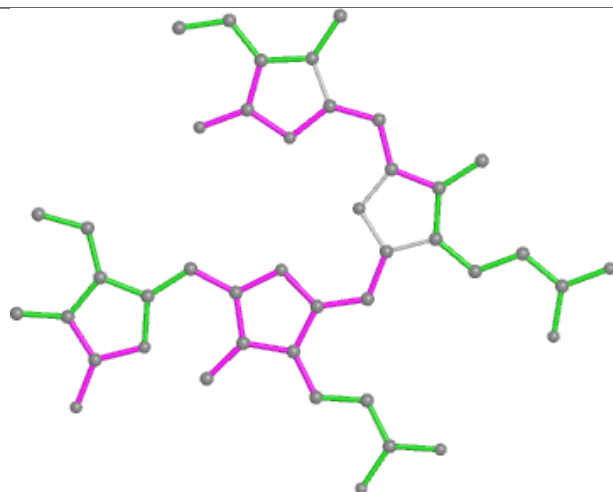




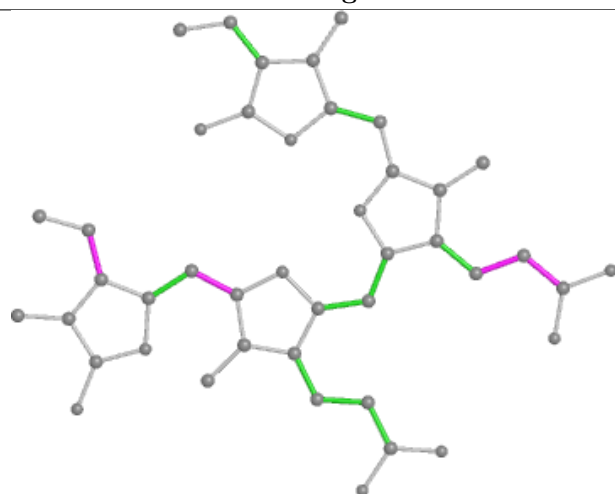
Ligand PEB OI 203



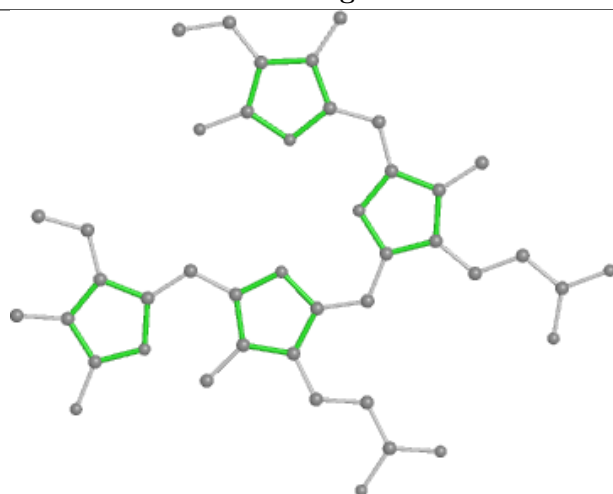
Bond lengths



Bond angles

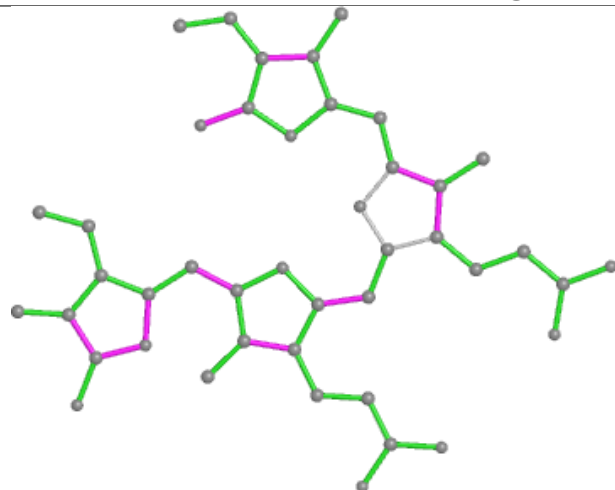


Torsions

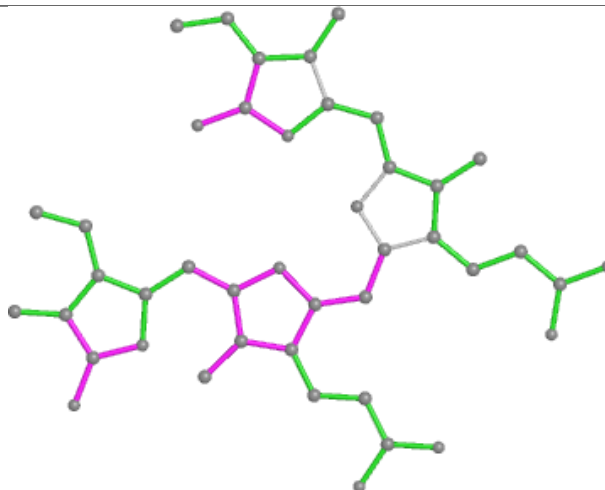


Rings

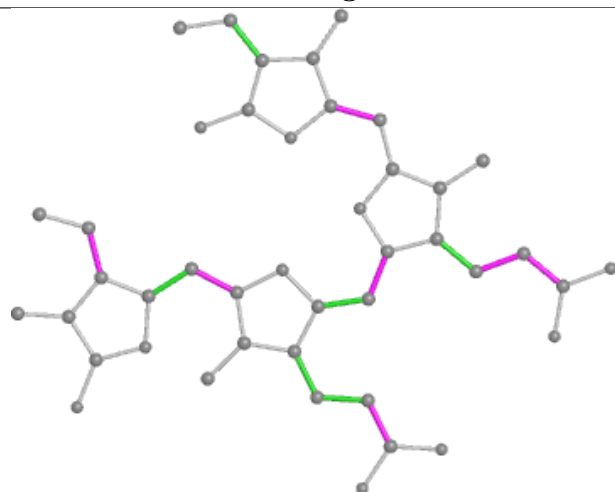
Ligand PEB FL 203



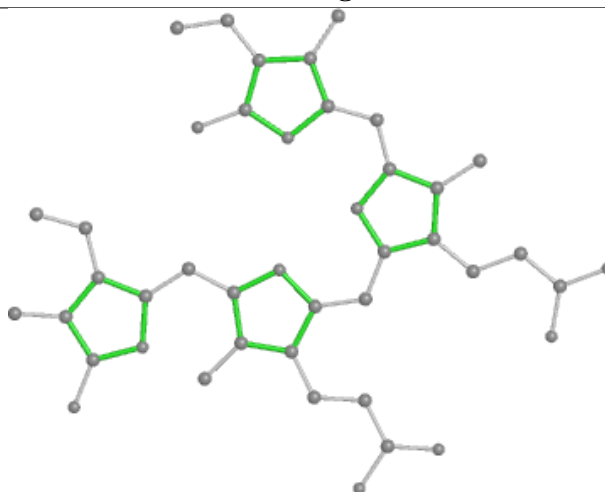
Bond lengths



Bond angles

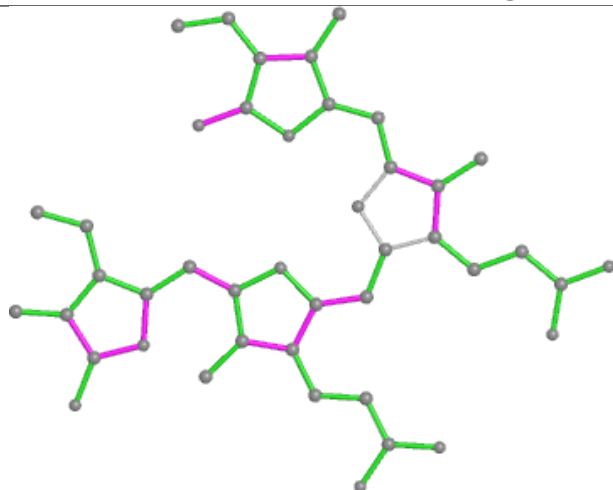


Torsions

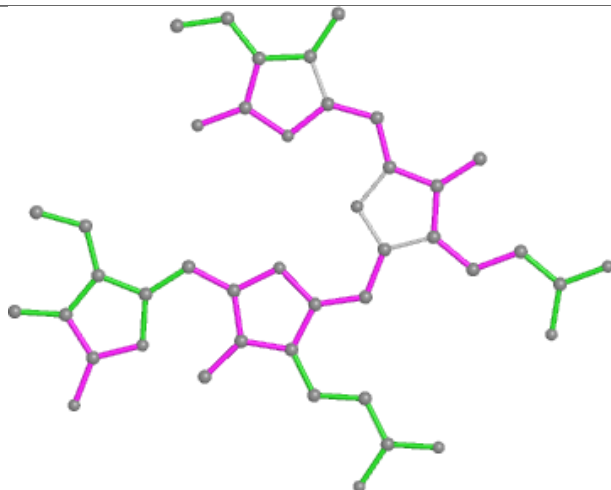


Rings

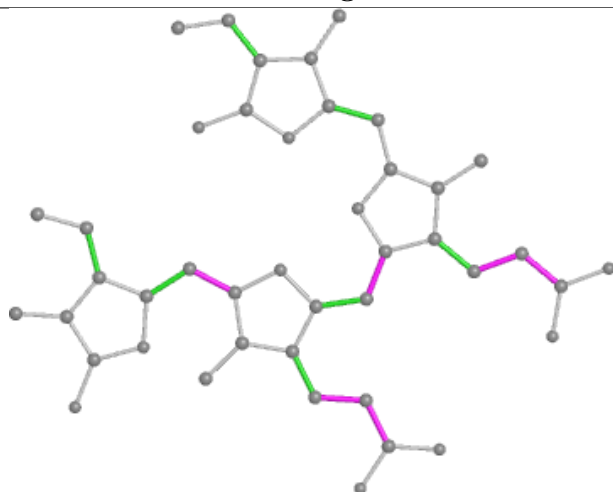
Ligand PEB UB 202



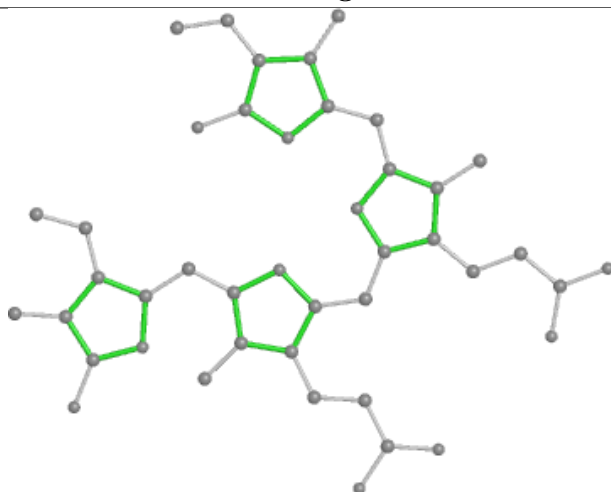
Bond lengths



Bond angles

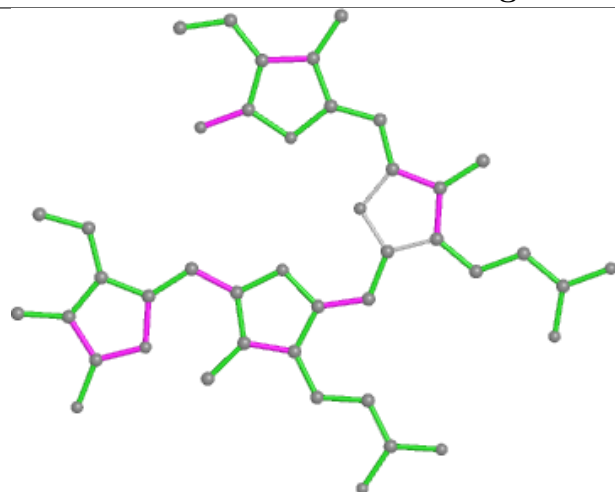


Torsions

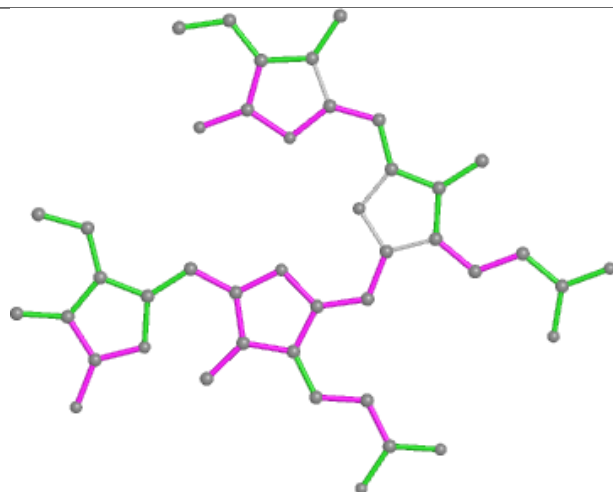


Rings

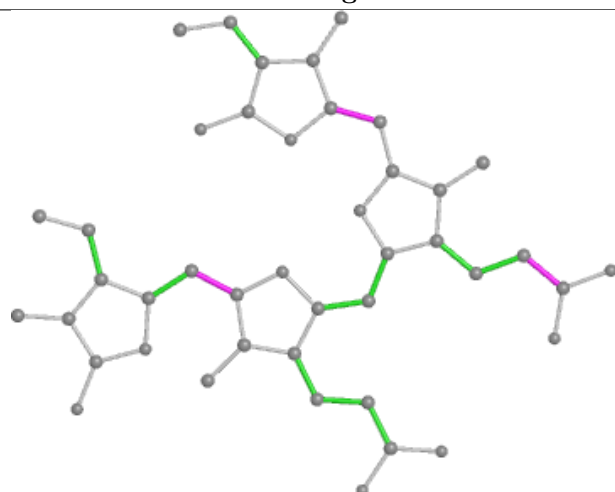
Ligand PEB RM 201



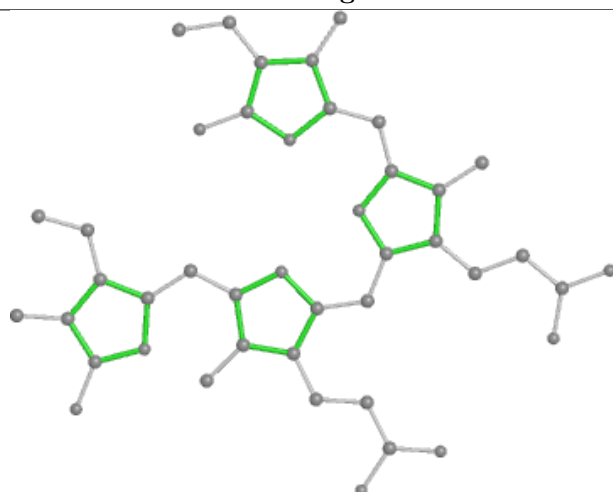
Bond lengths



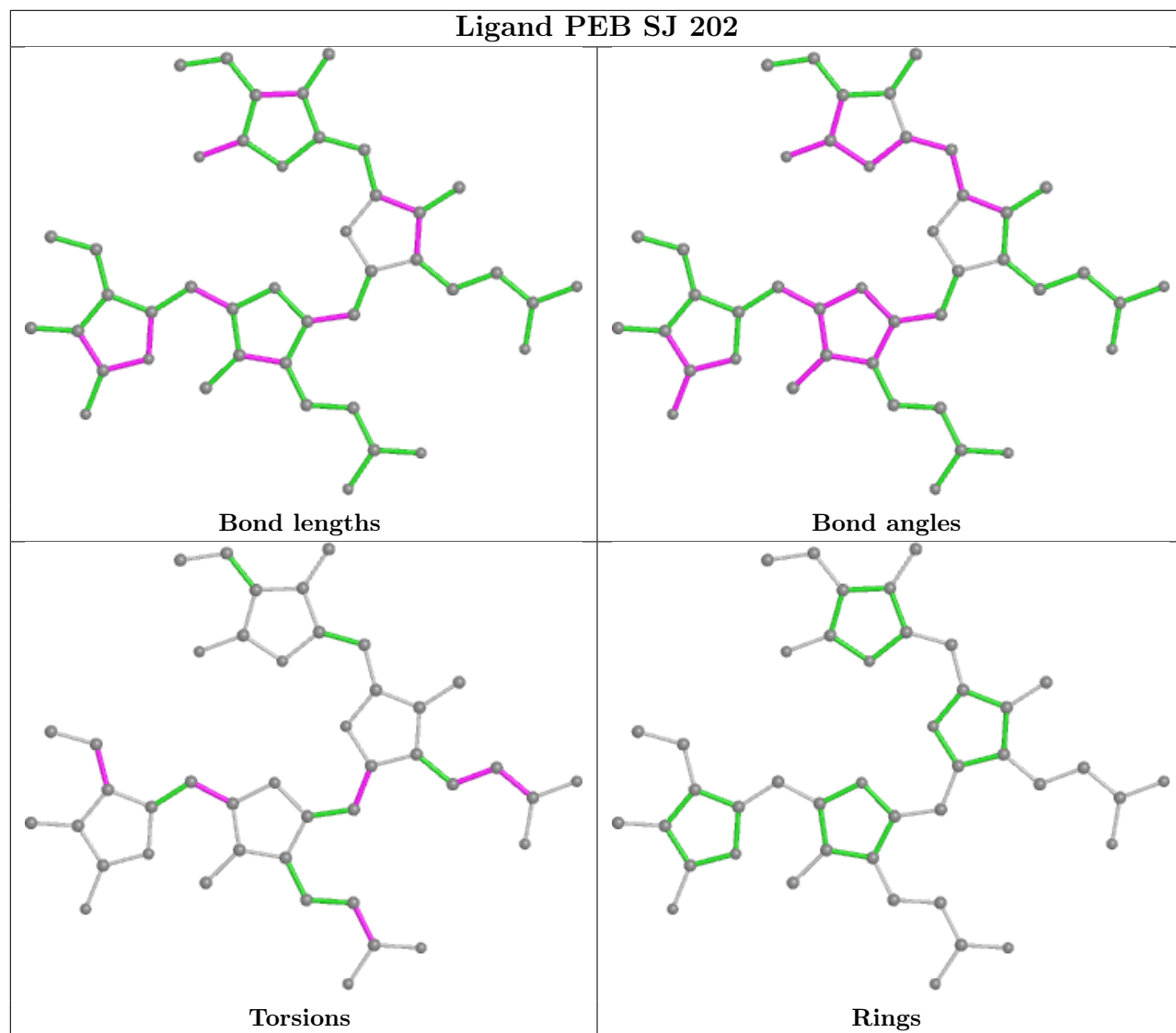
Bond angles



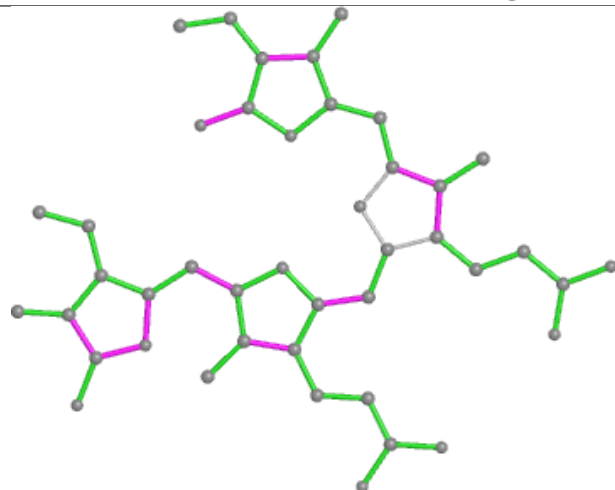
Torsions



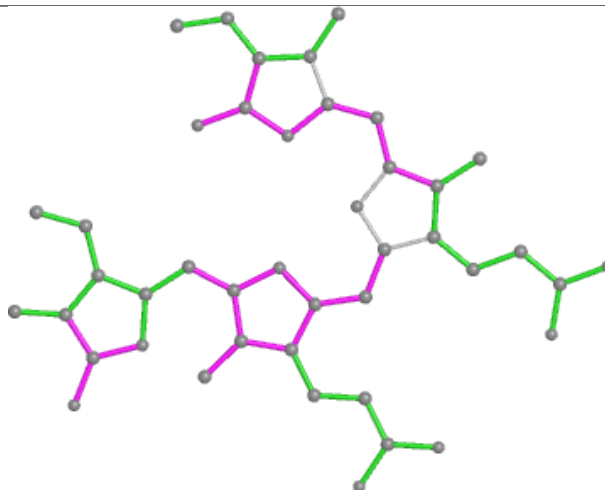
Rings



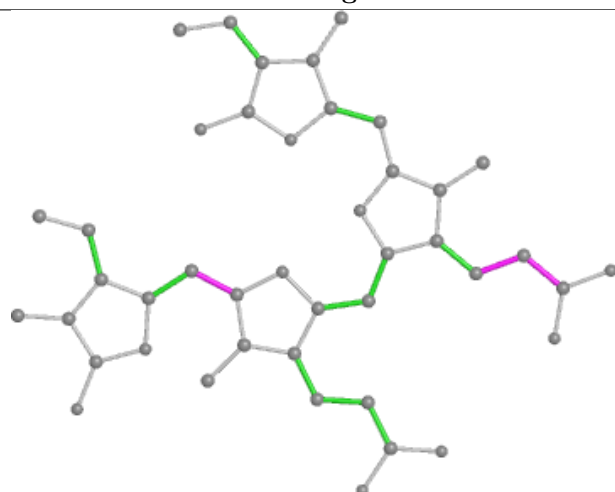
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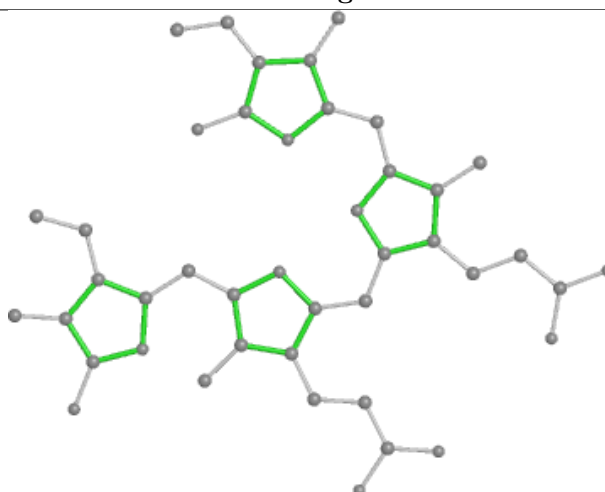
Bond lengths



Bond angles

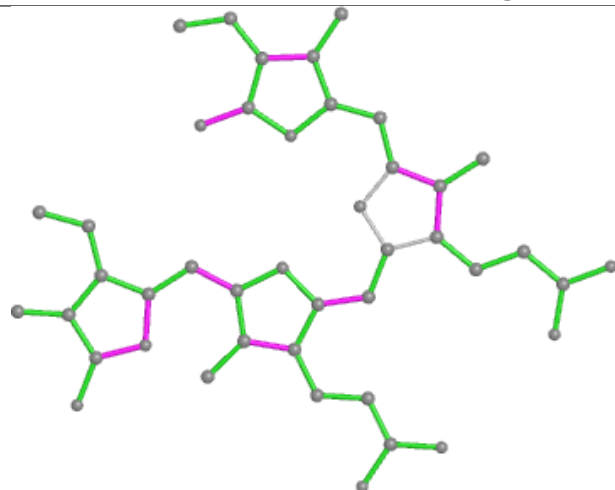


Torsions

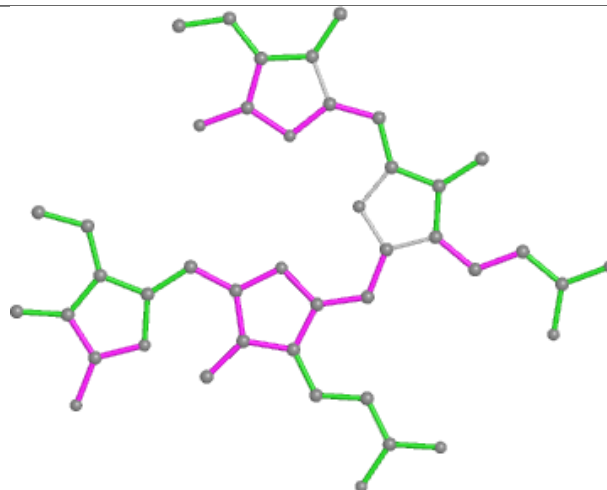


Rings

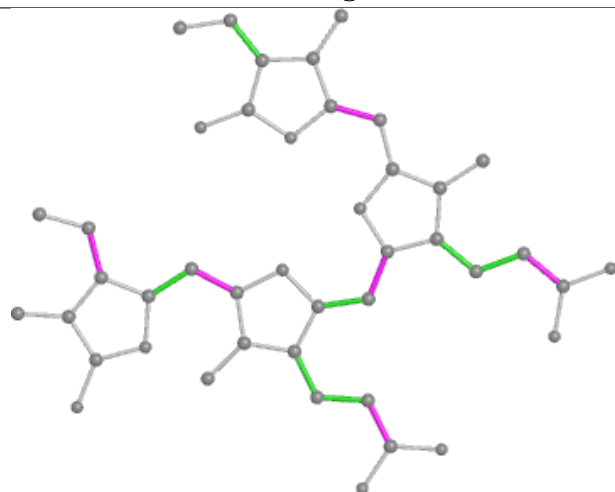
Ligand PEB MN 401



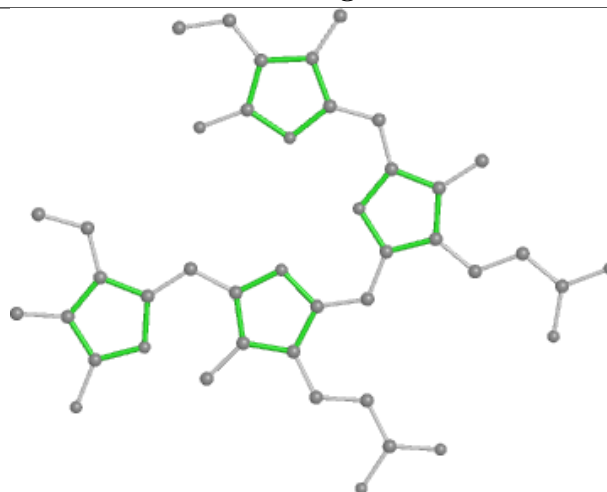
Bond lengths



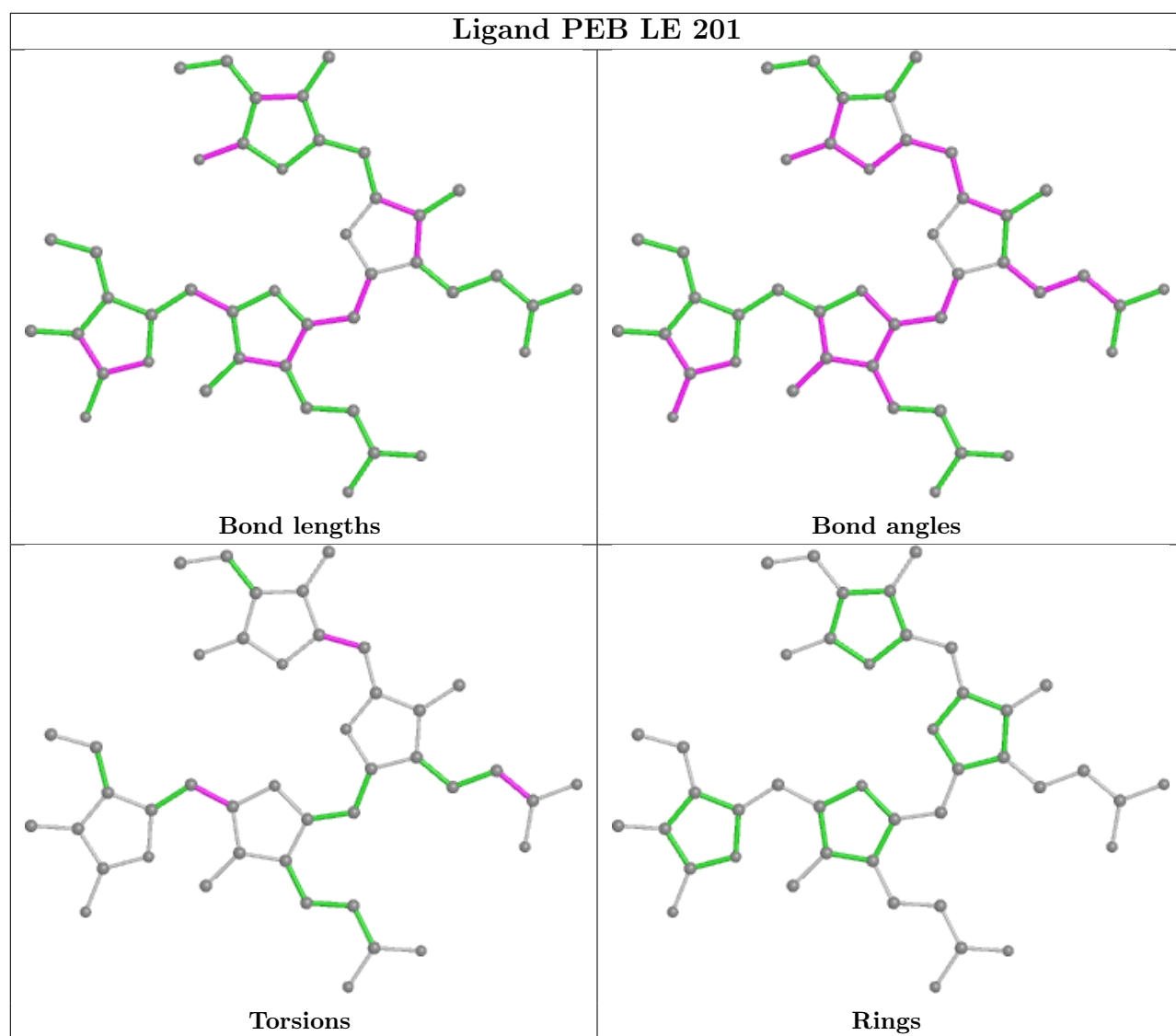
Bond angles



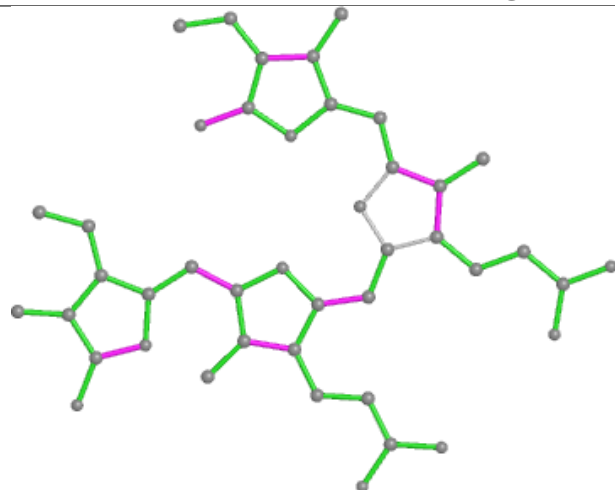
Torsions



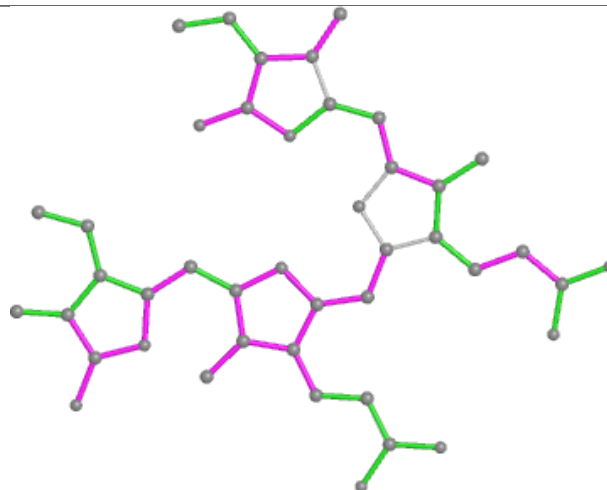
Rings



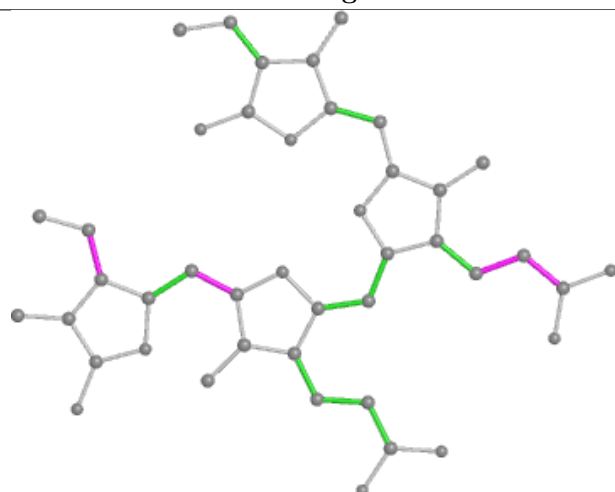
Ligand PEB RR 202



Bond lengths



Bond angles

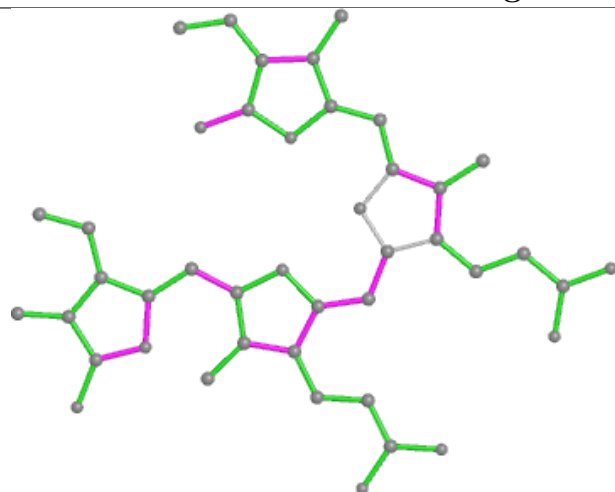


Torsions

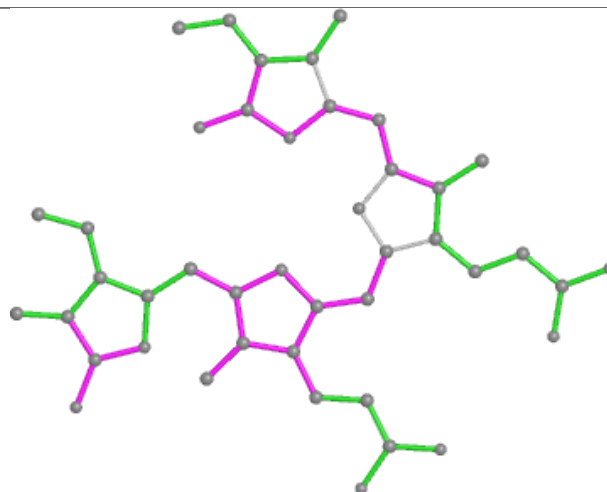


Rings

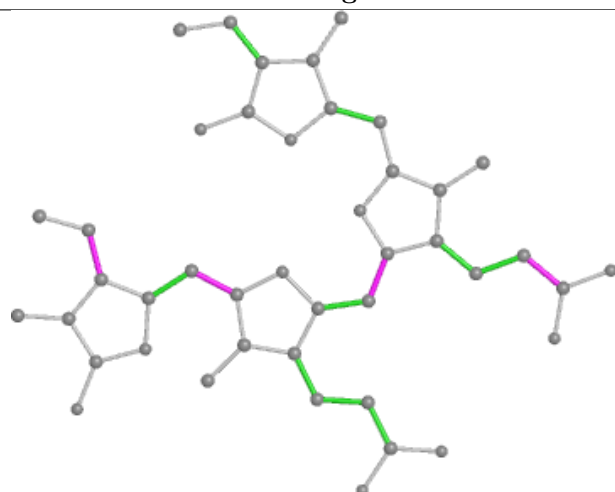
Ligand PEB AC 203



Bond lengths



Bond angles

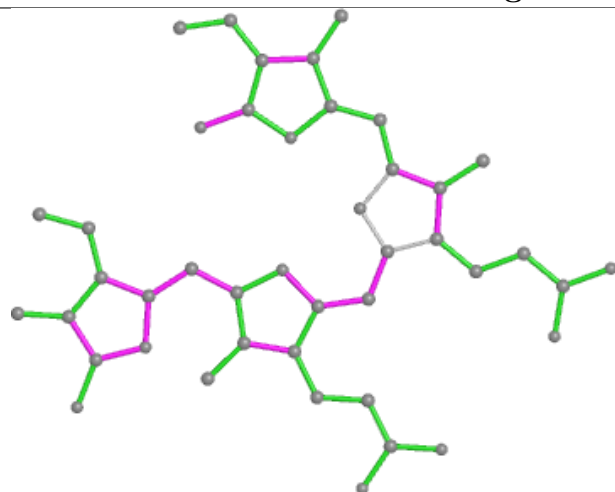


Torsions

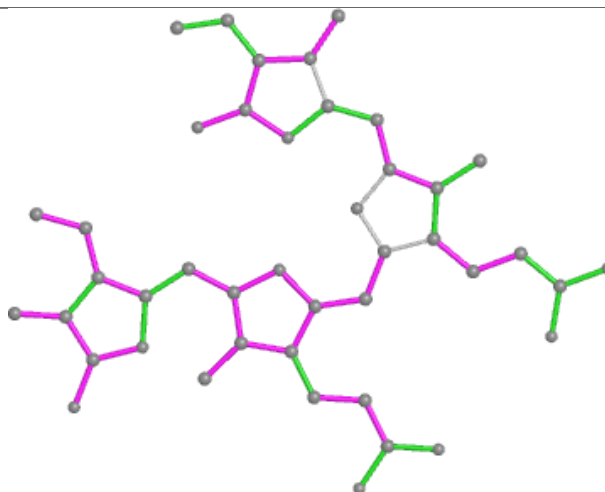


Rings

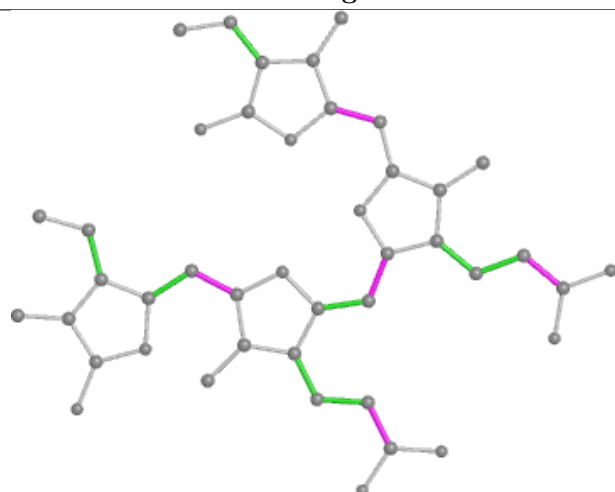
Ligand PEB FD 201



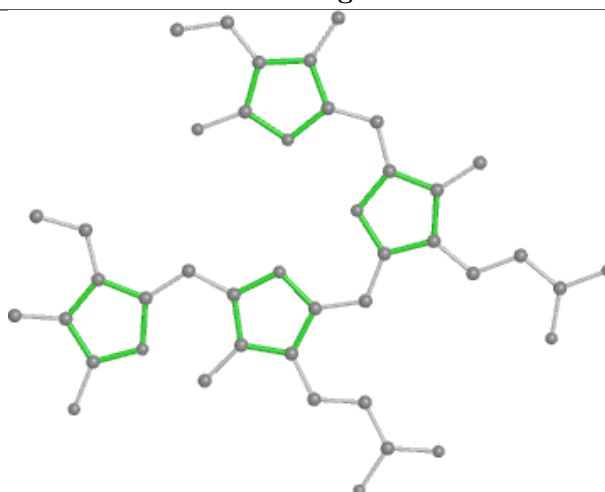
Bond lengths



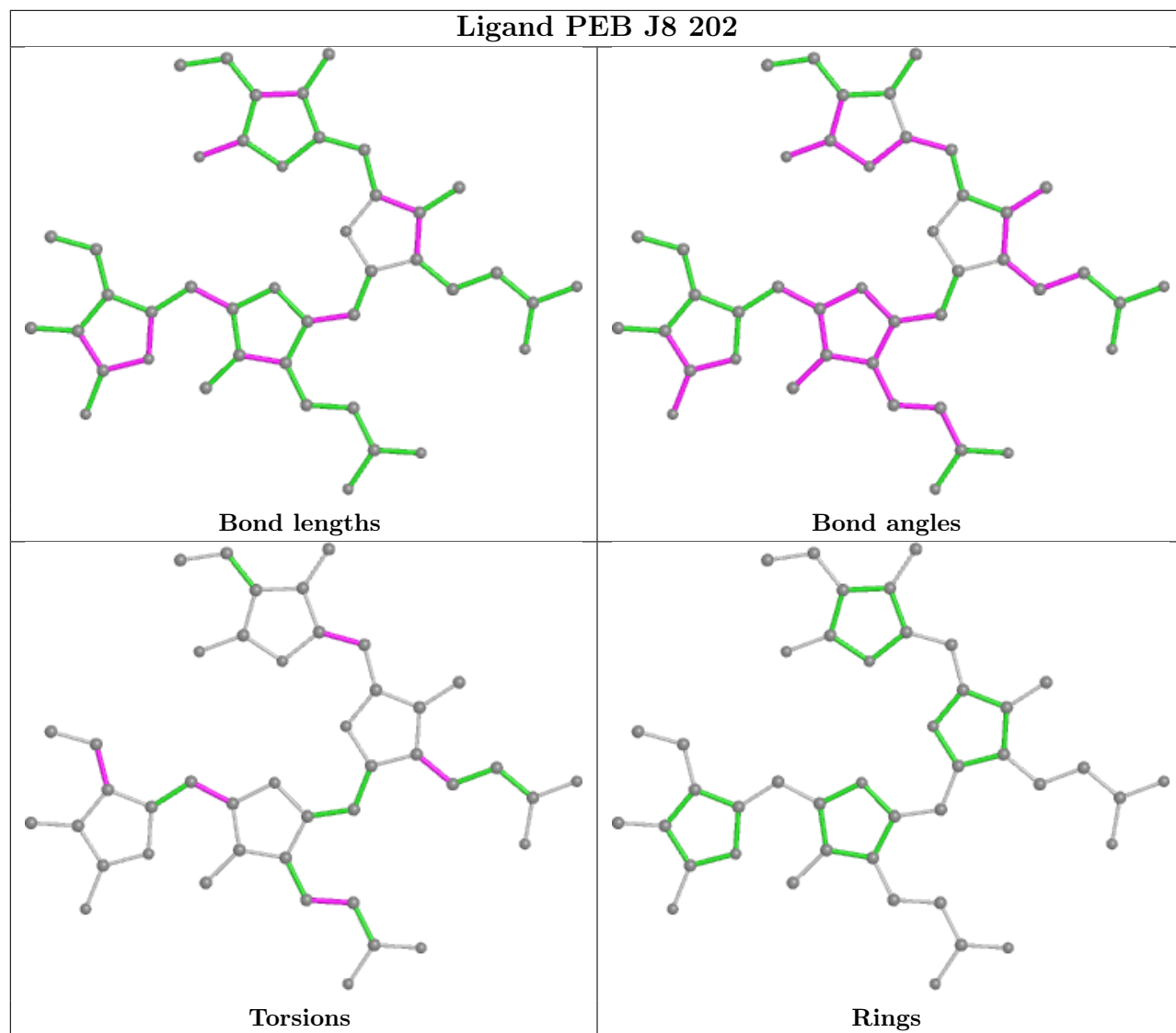
Bond angles

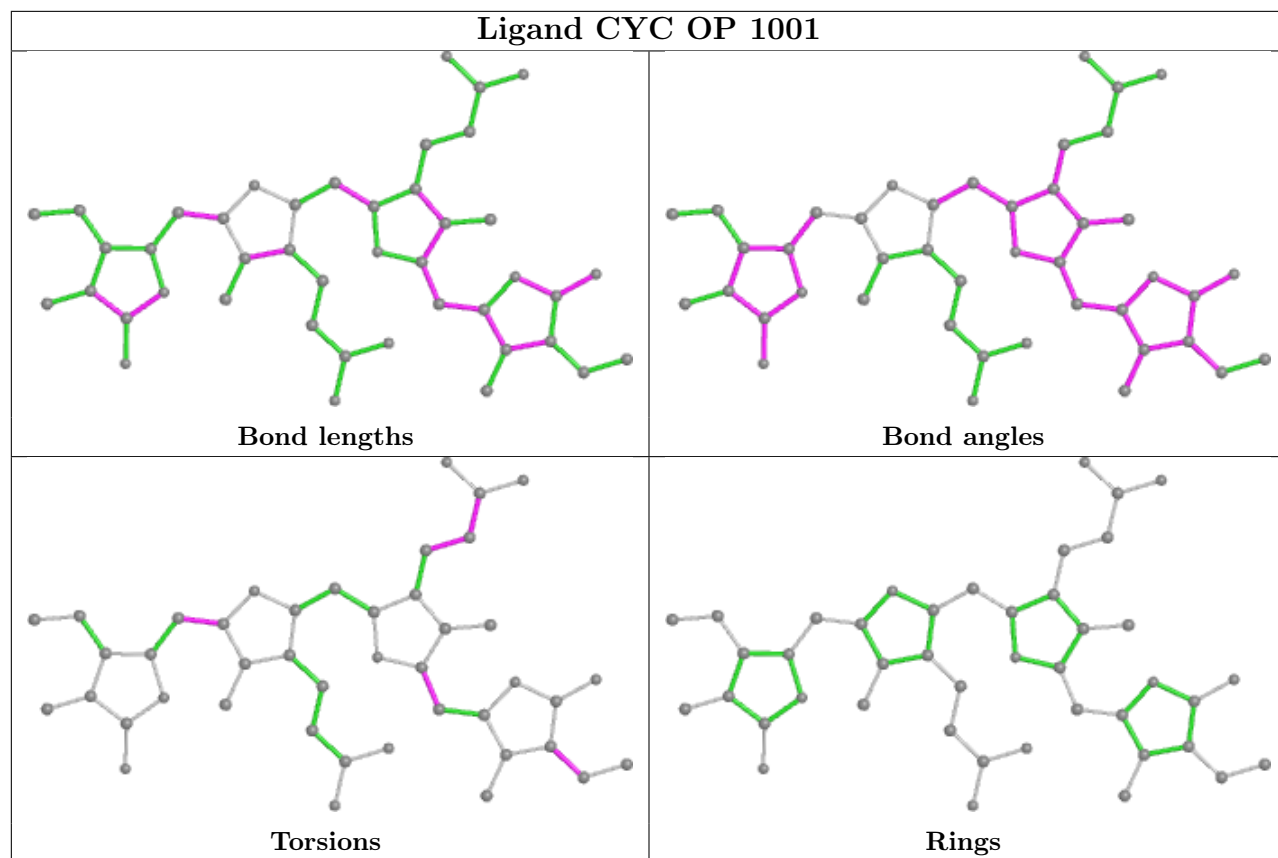


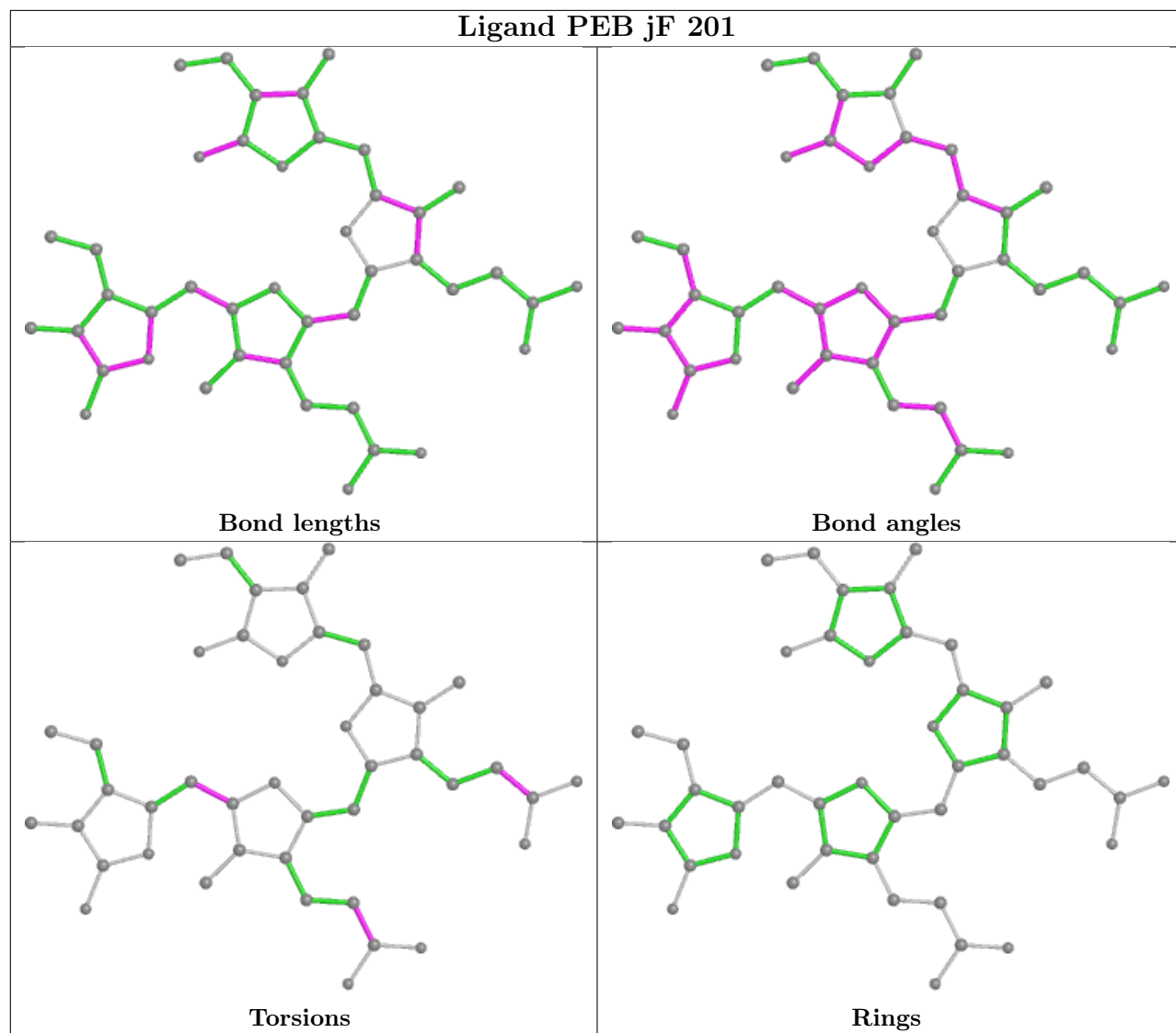
Torsions



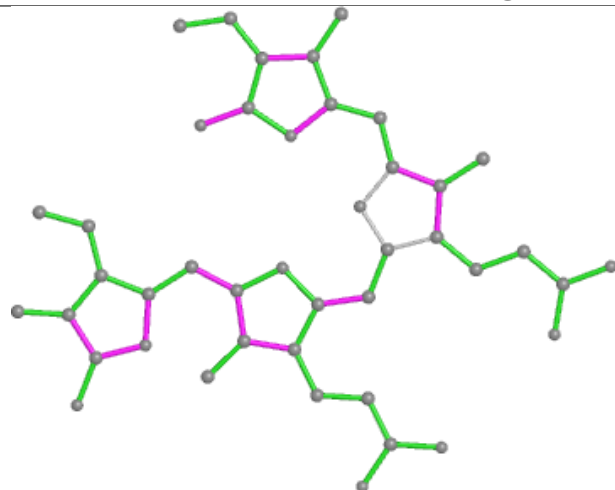
Rings



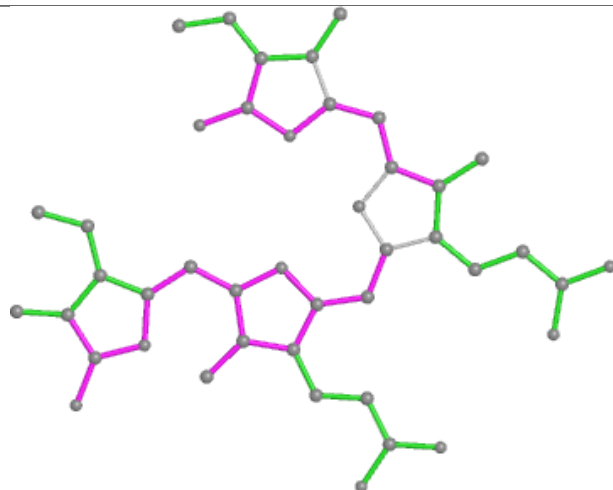




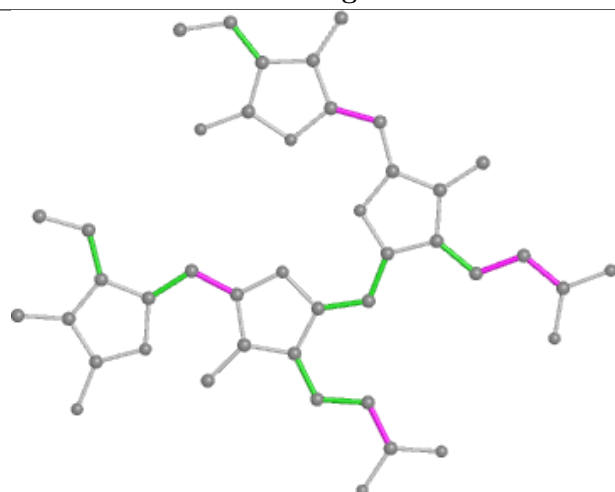
Ligand PEB MA 405



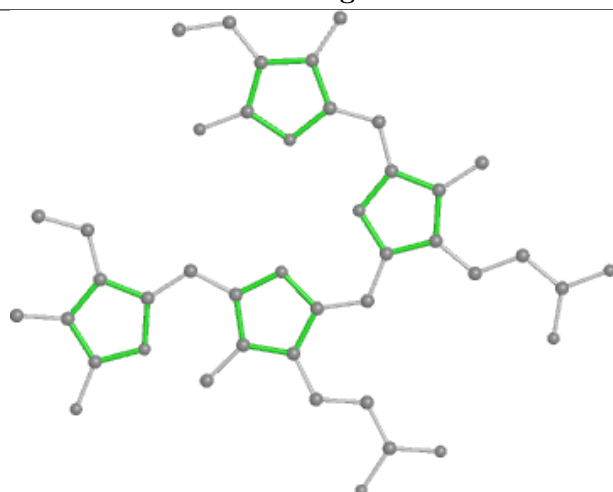
Bond lengths



Bond angles

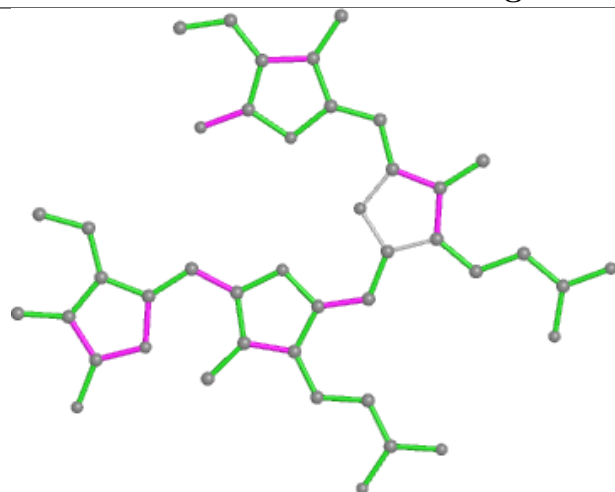


Torsions

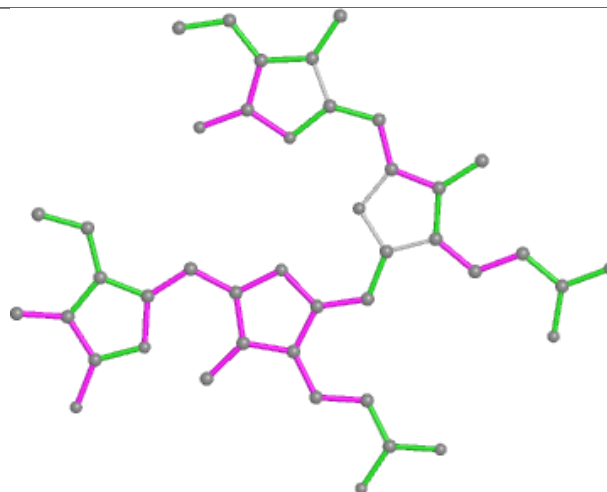


Rings

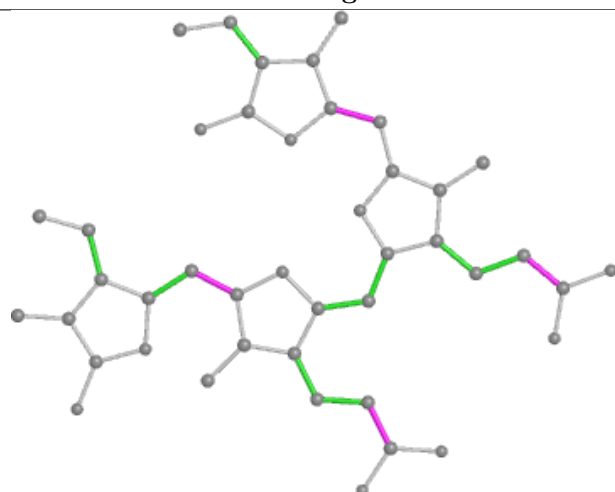
Ligand PEB ZK 202



Bond lengths



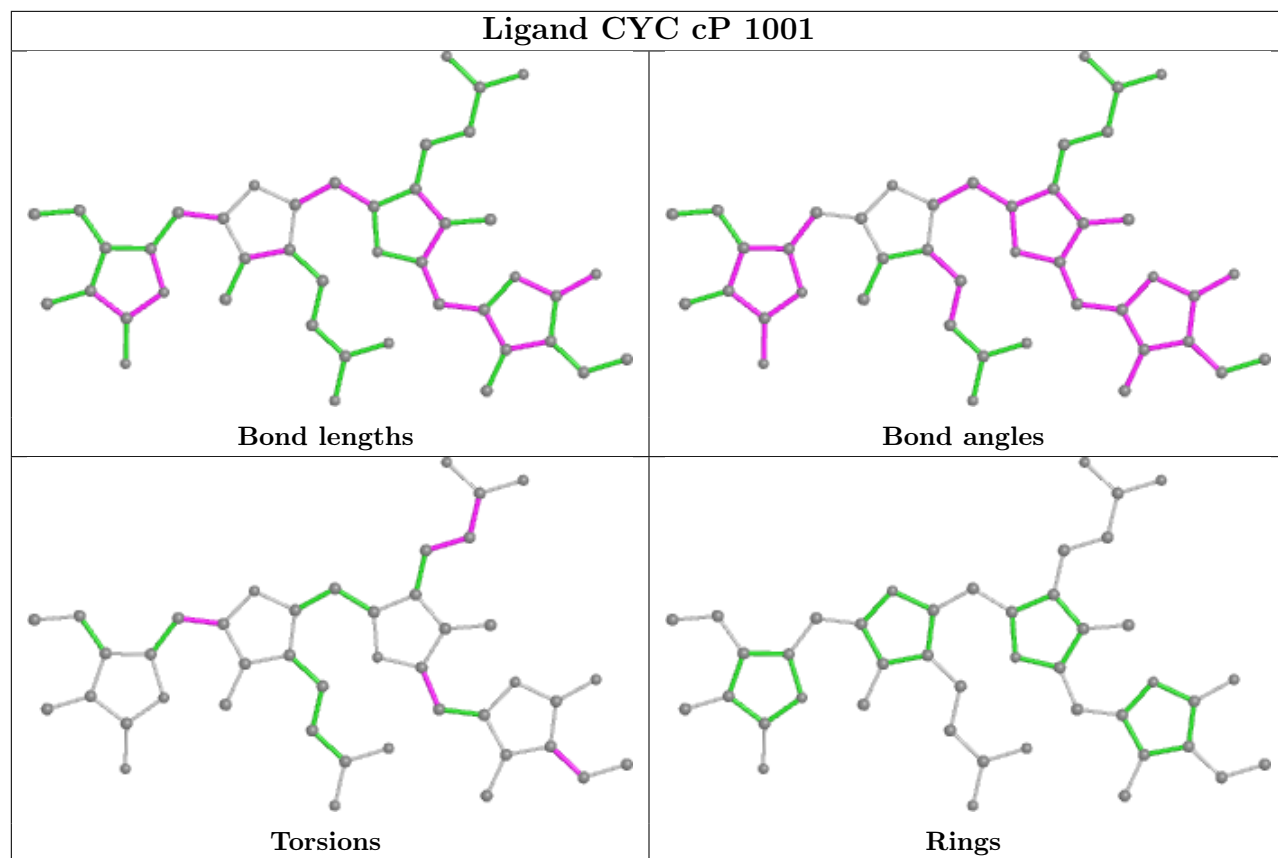
Bond angles



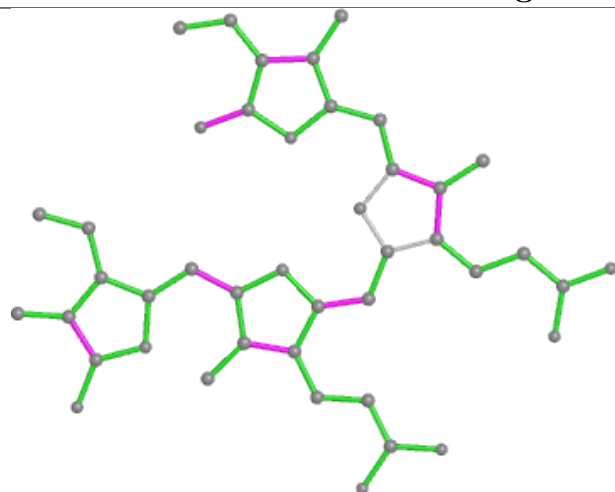
Torsions



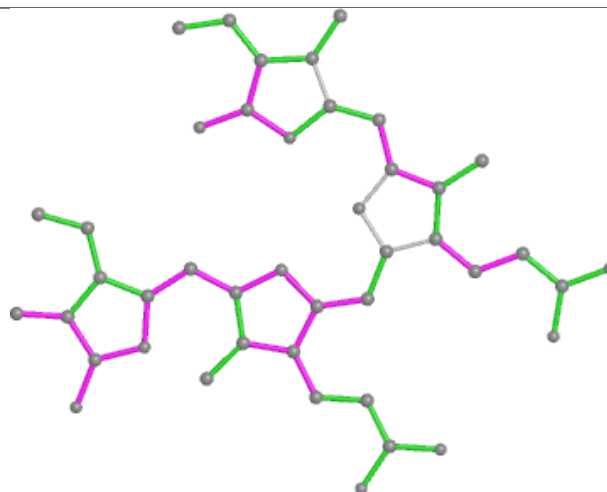
Rings



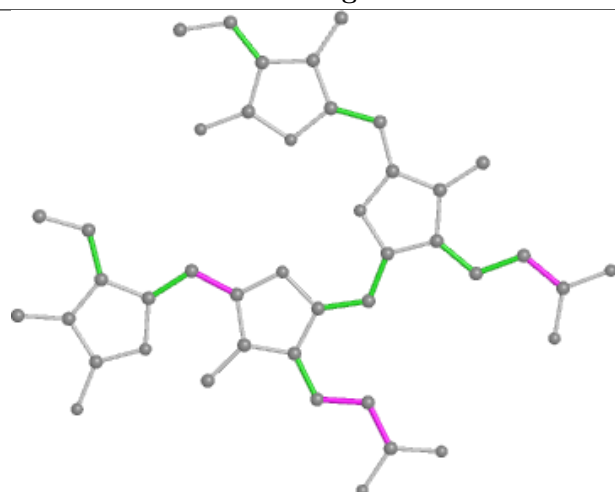
Ligand PEB 1J 201



Bond lengths



Bond angles

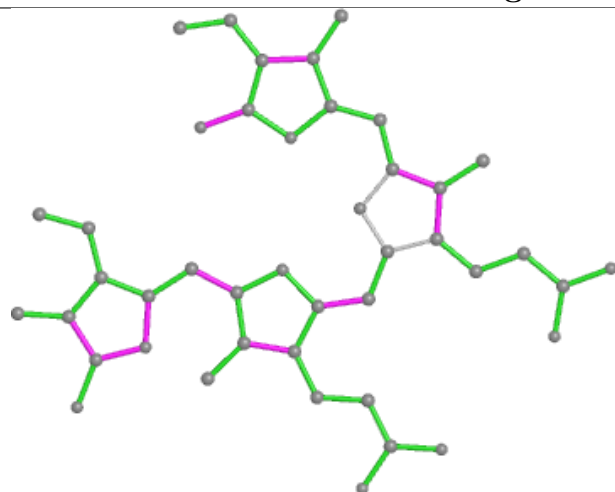


Torsions

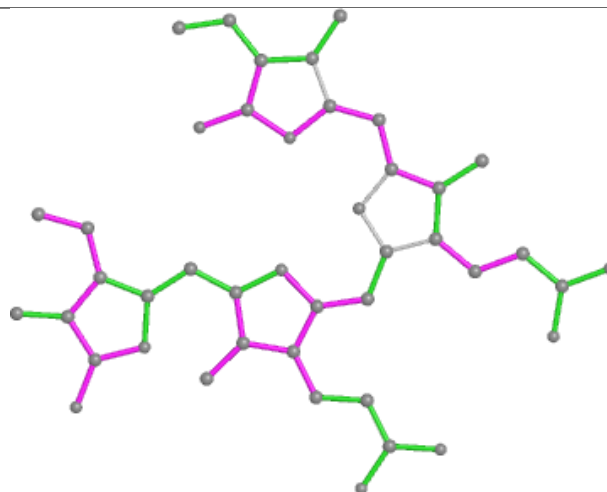


Rings

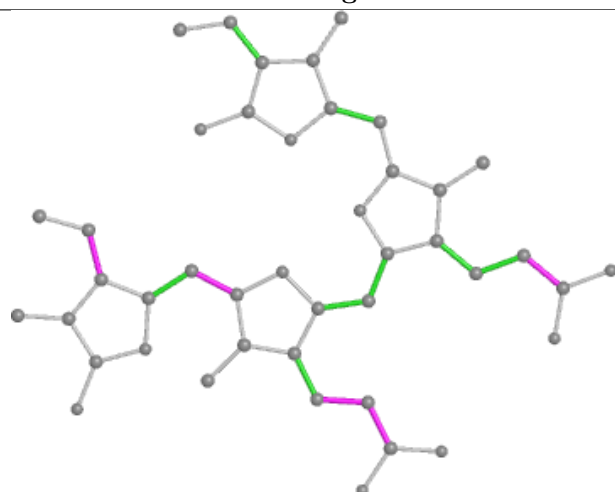
Ligand PEB WI 202



Bond lengths



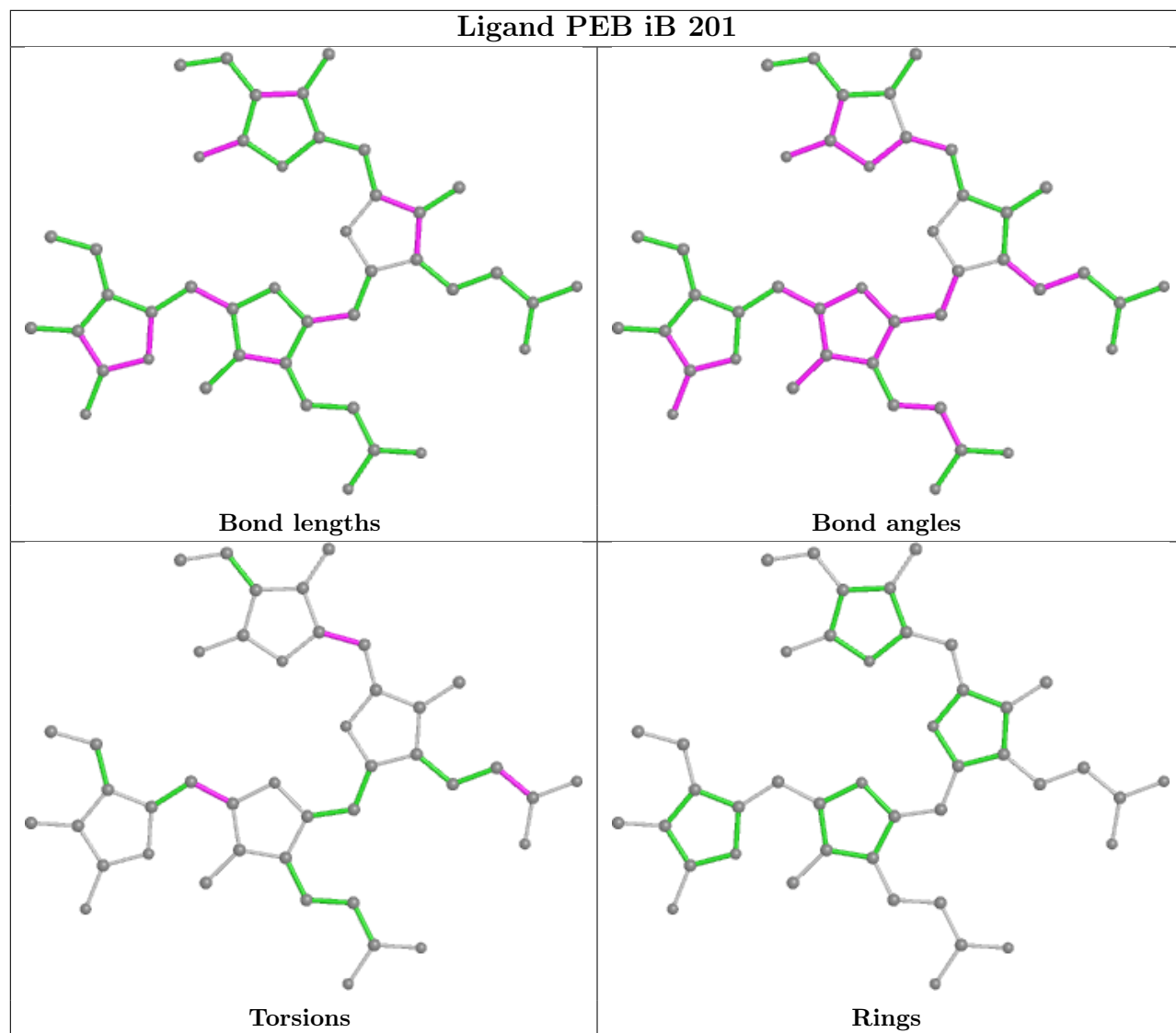
Bond angles

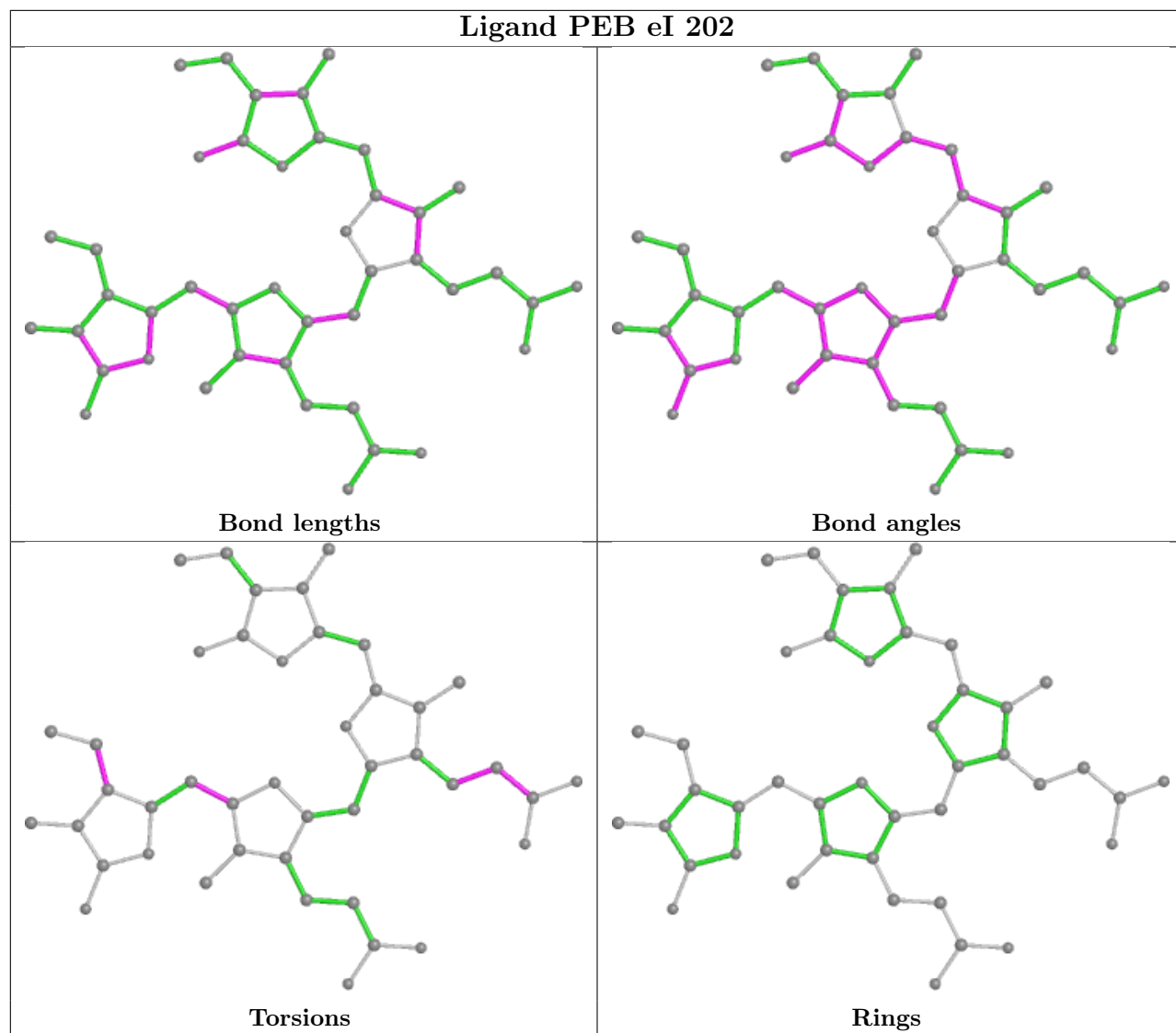


Torsions

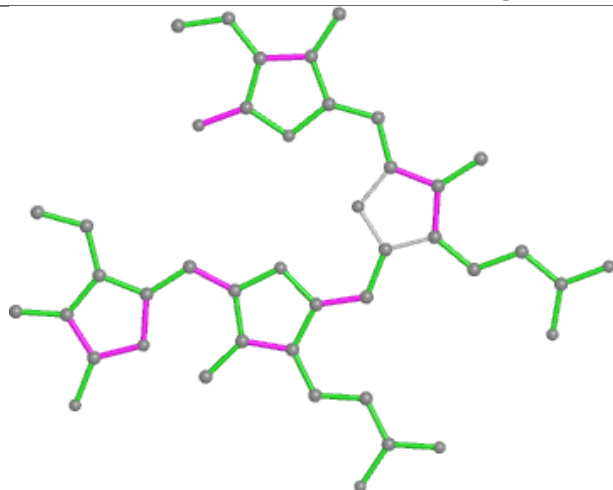


Rings

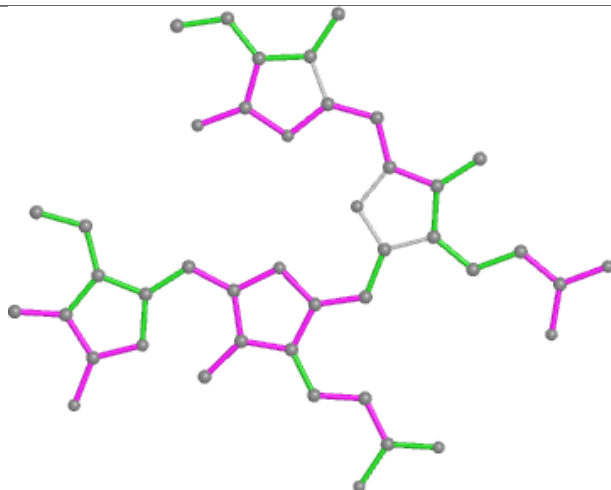




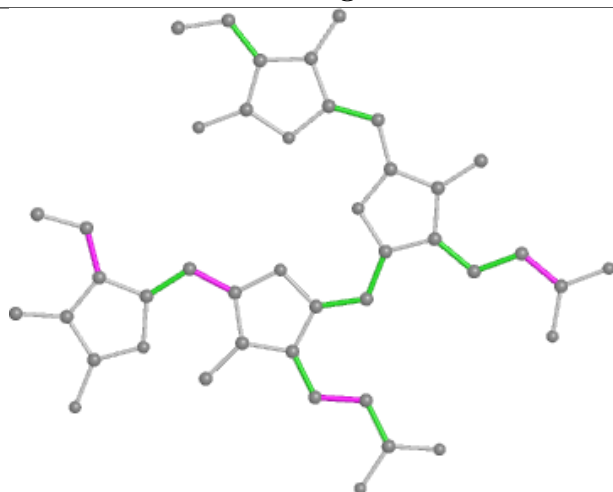
Ligand PEB MR 201



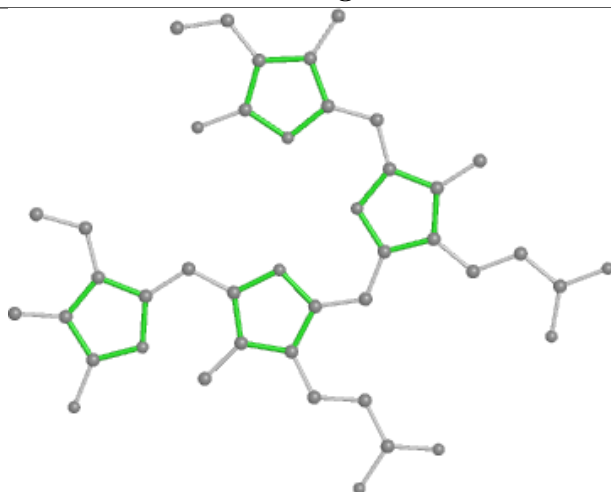
Bond lengths



Bond angles

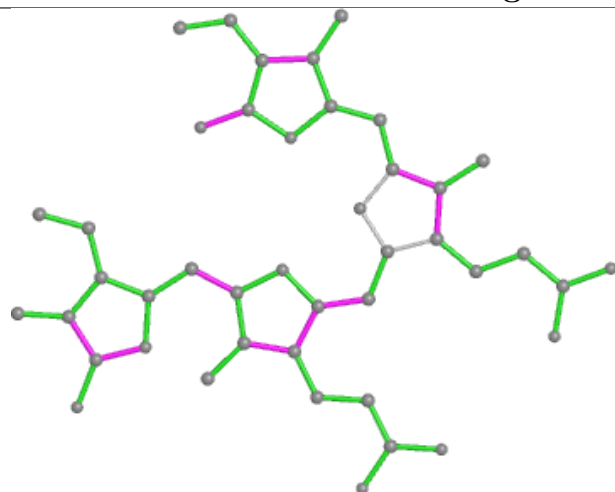


Torsions

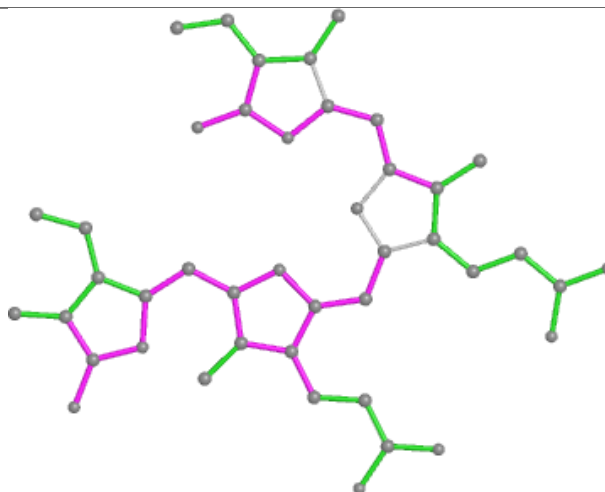


Rings

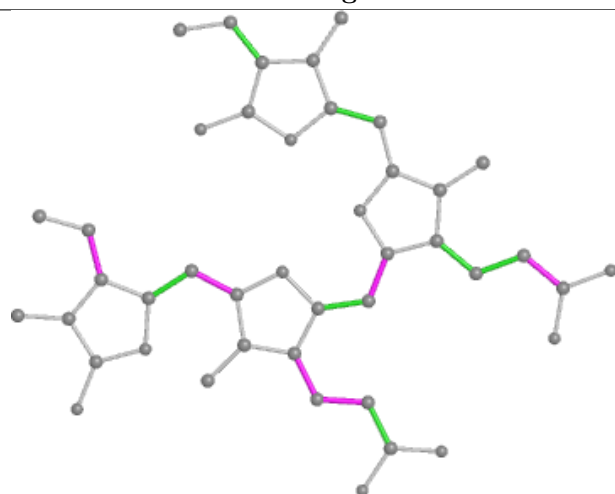
Ligand PEB BA 202



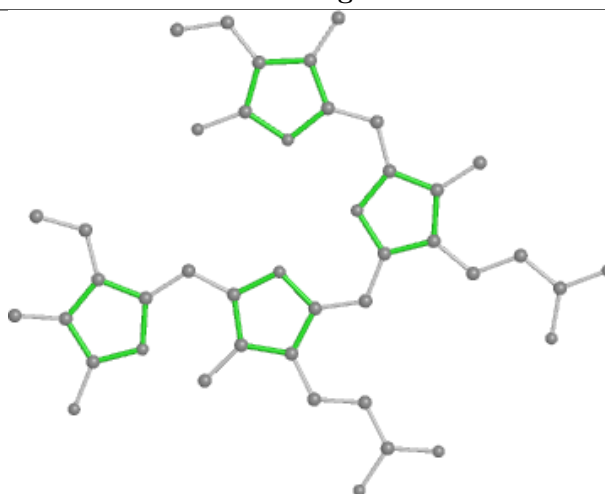
Bond lengths



Bond angles

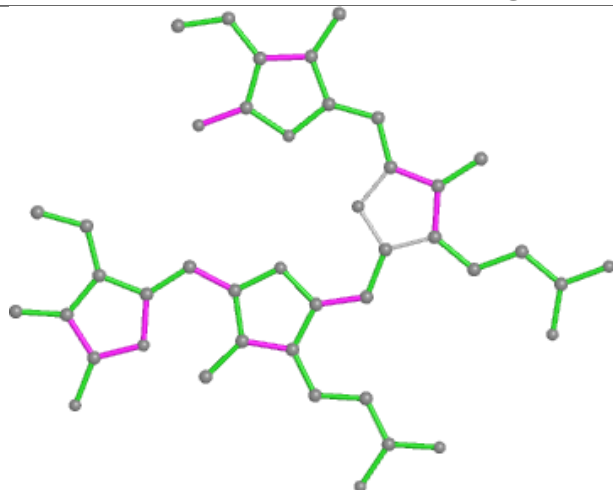


Torsions

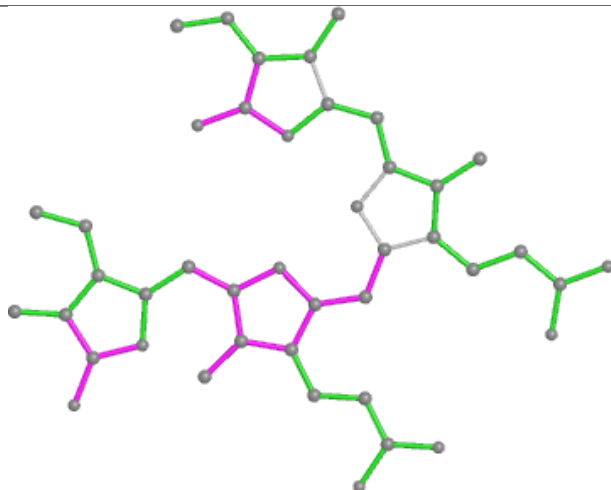


Rings

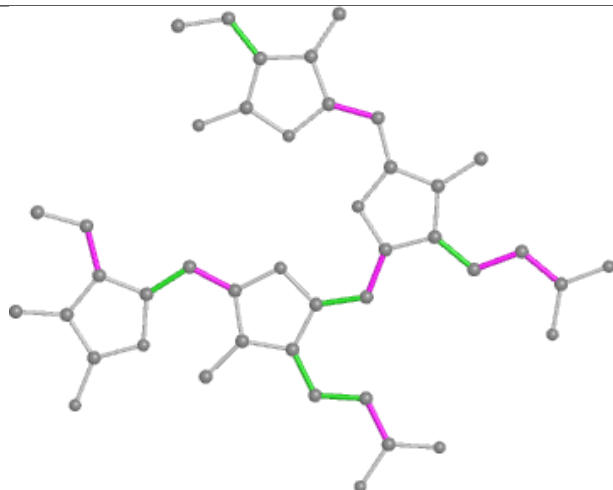
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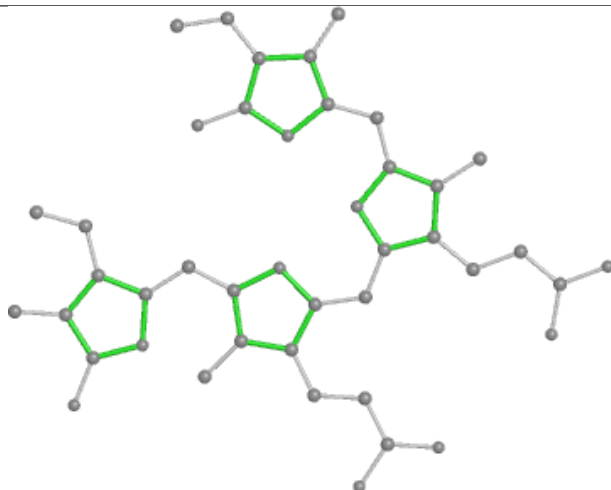
Bond lengths



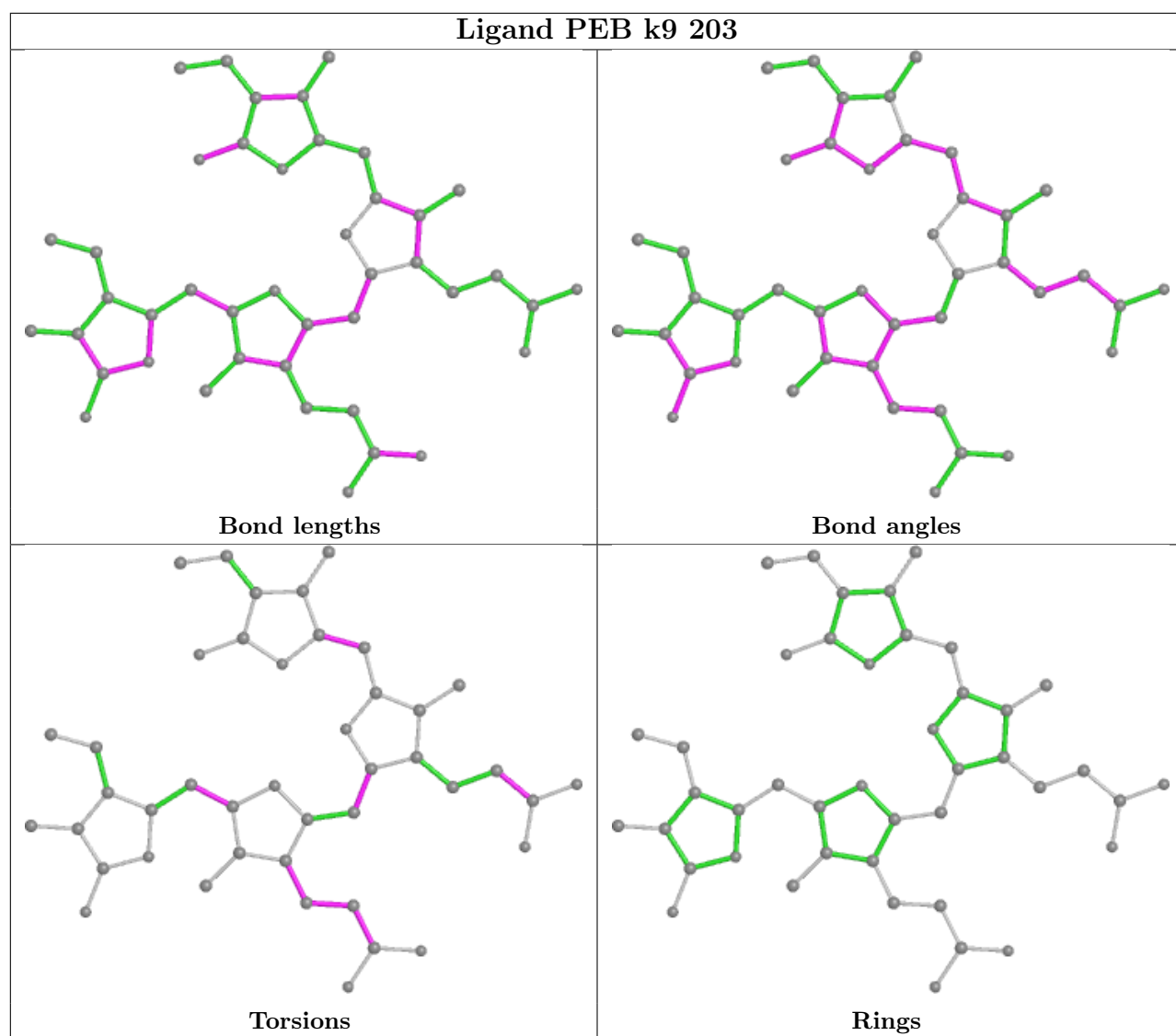
Bond angles



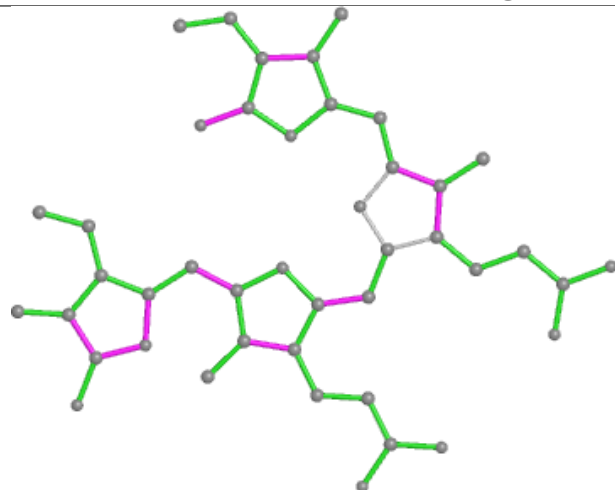
Torsions



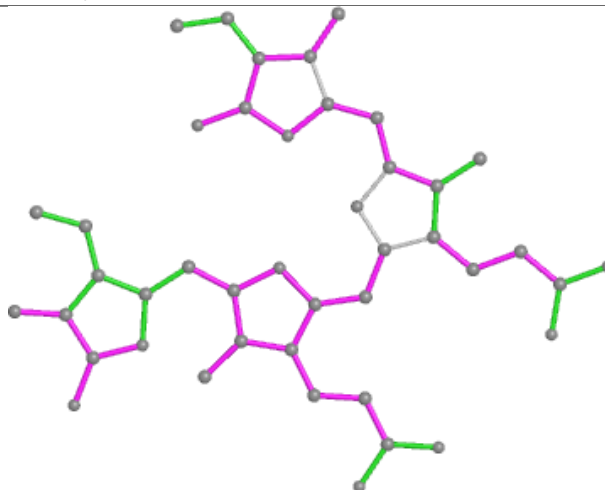
Rings



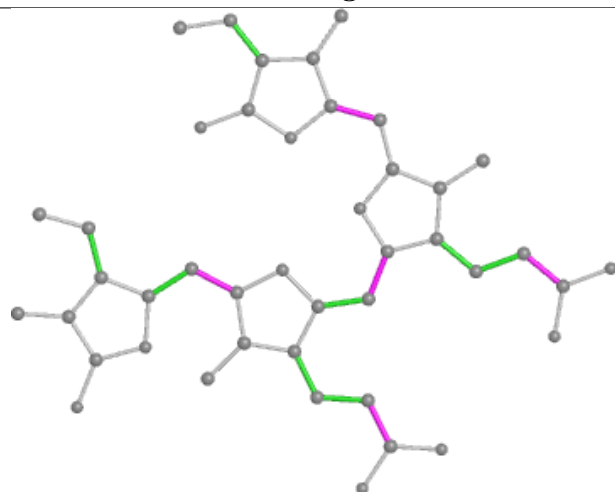
Ligand PEB MQ 406



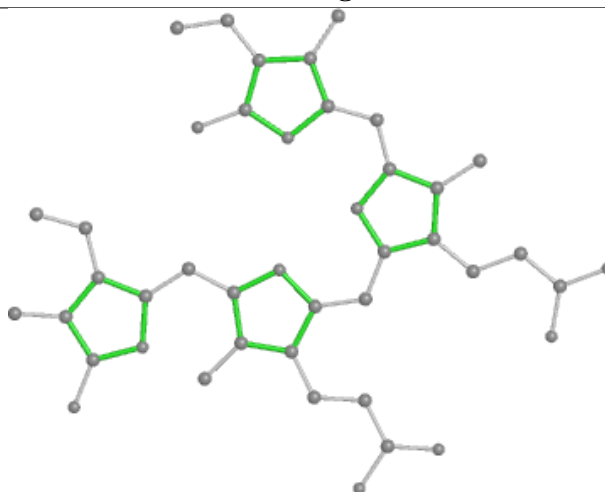
Bond lengths



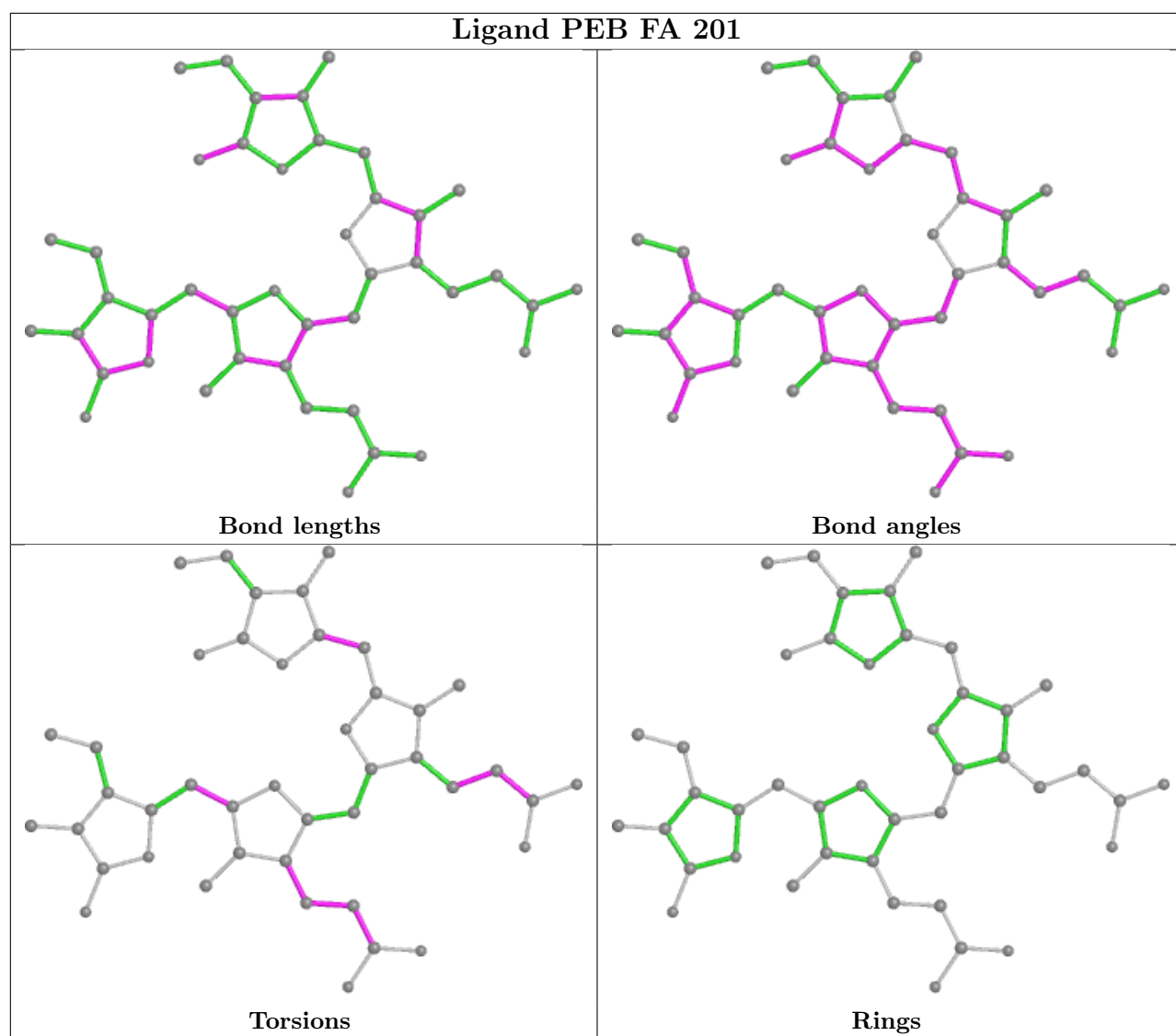
Bond angles



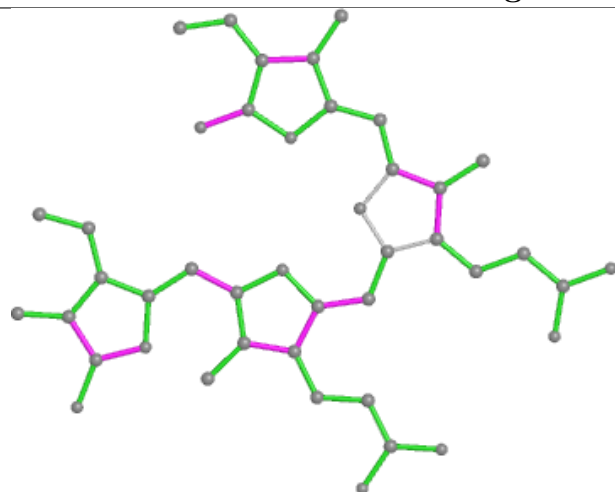
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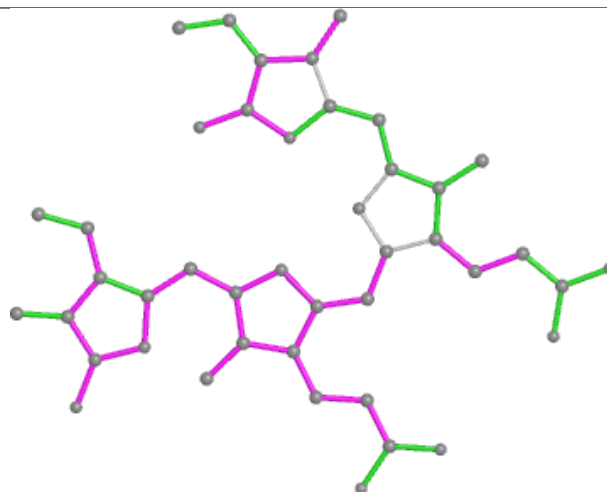
Rings



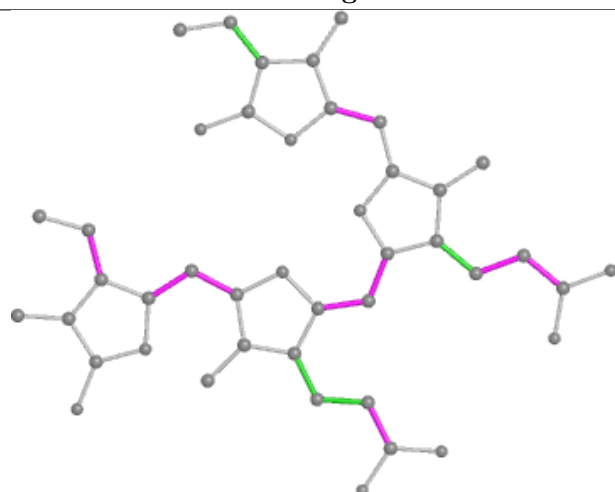
Ligand PEB EA 202



Bond lengths



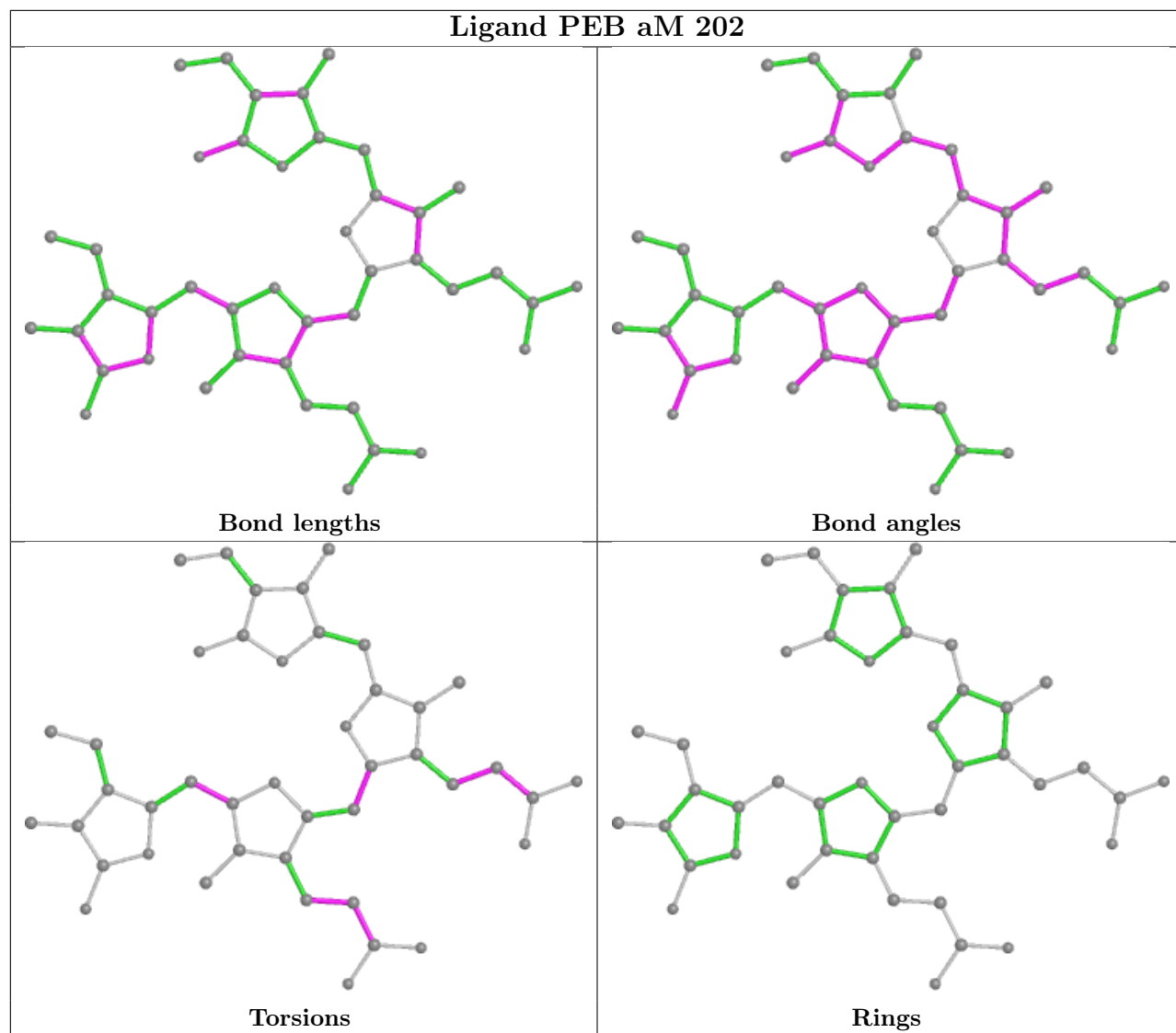
Bond angles



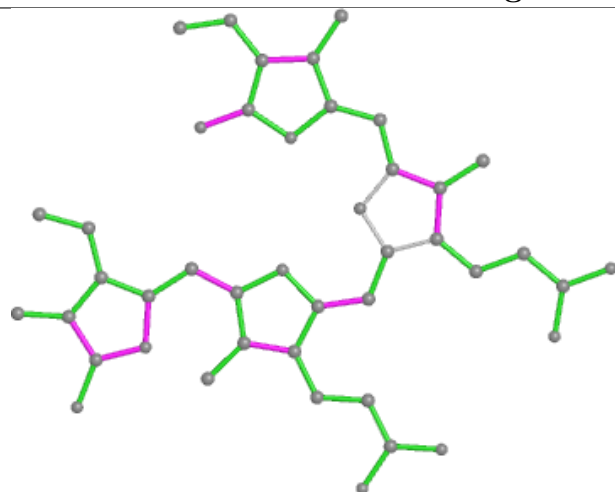
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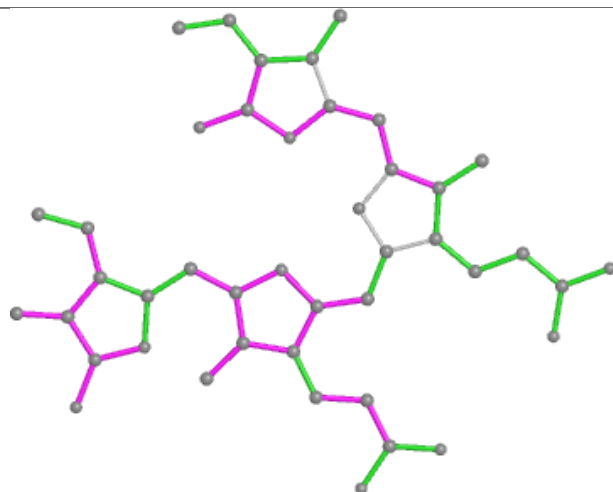
Rings



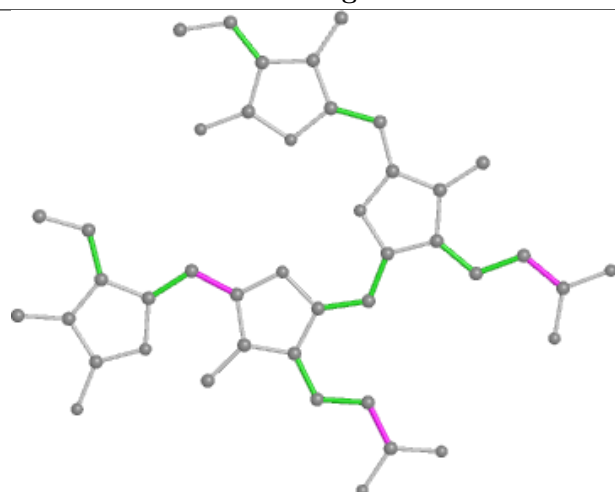
Ligand PEB WI 201



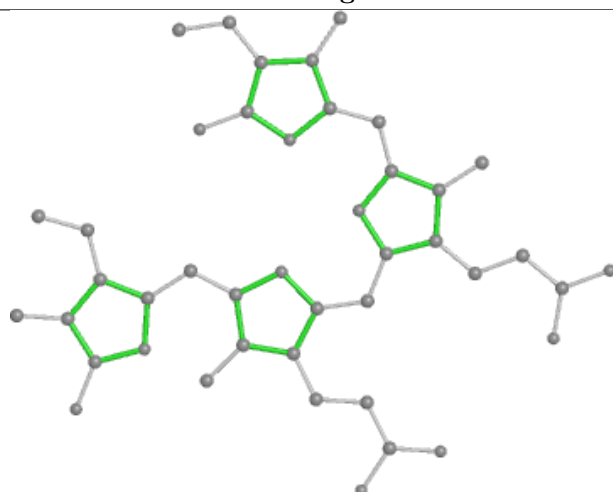
Bond lengths



Bond angles

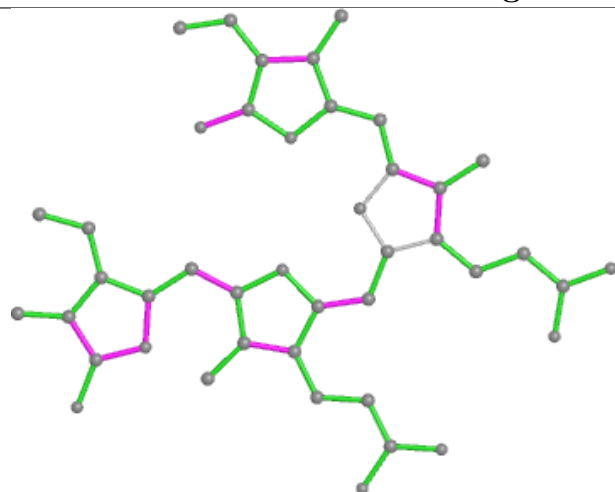


Torsions

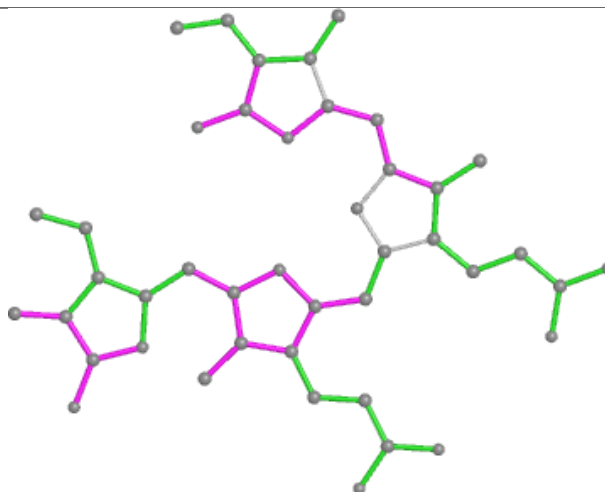


Rings

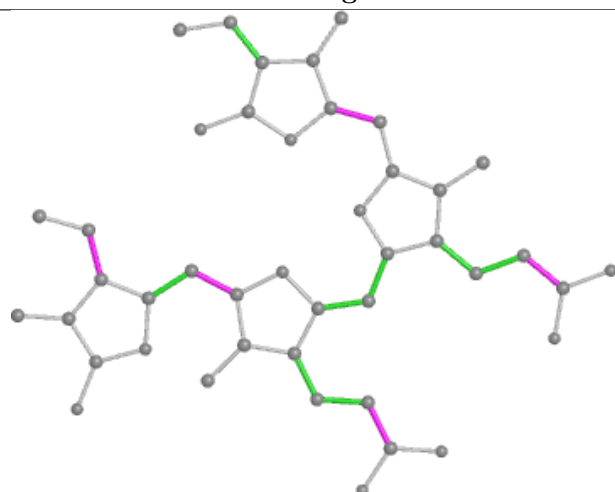
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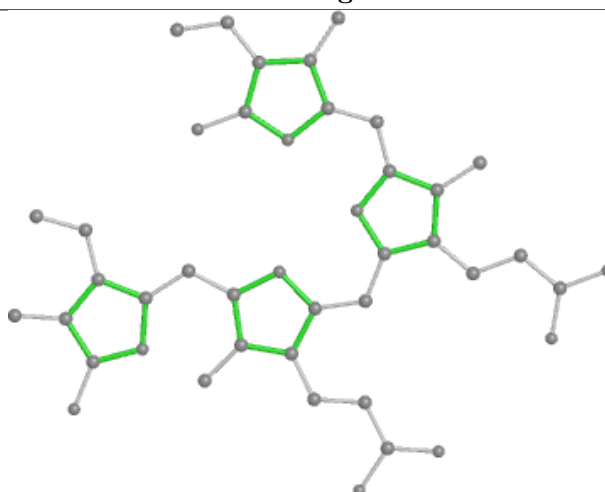
Bond lengths



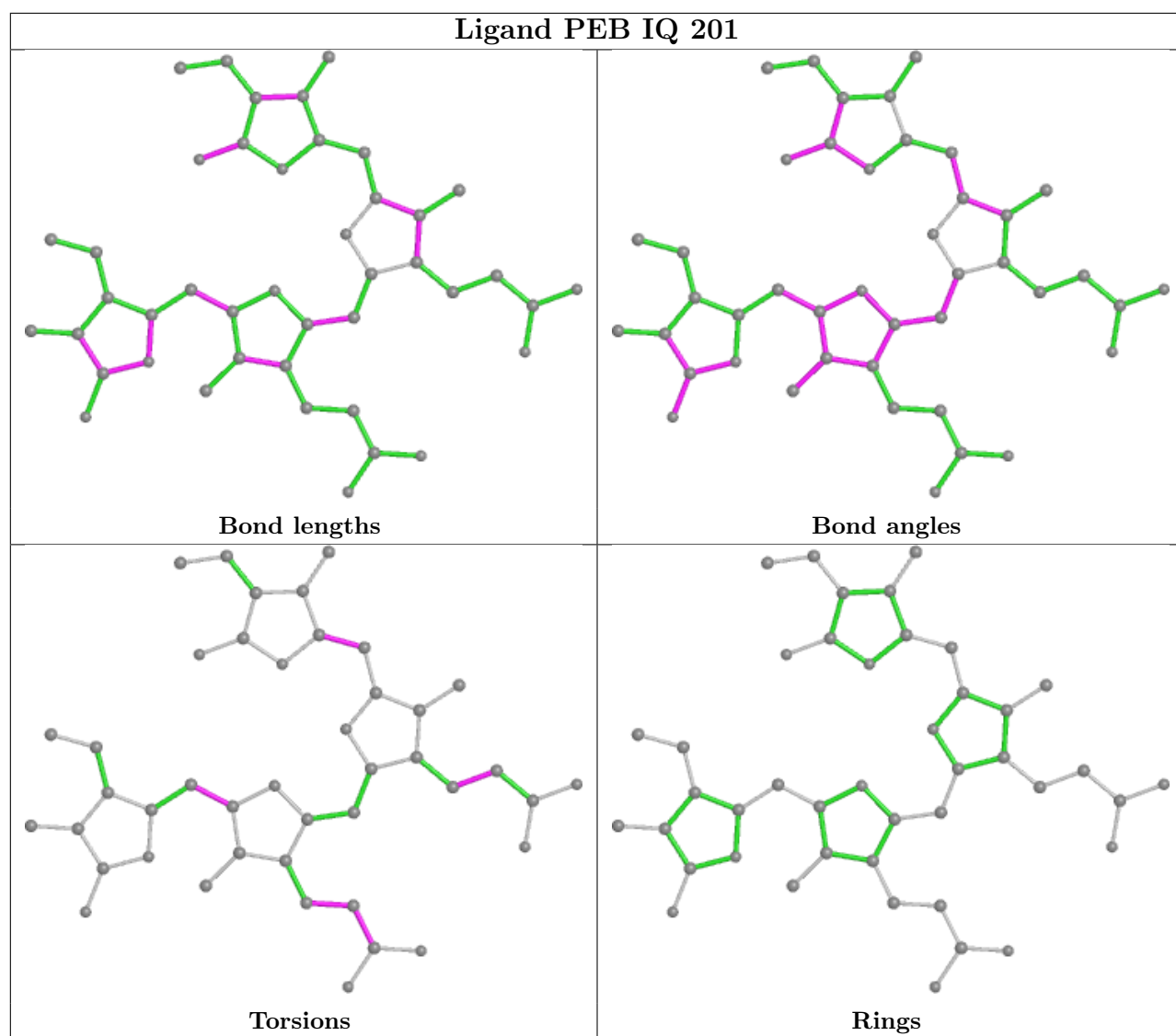
Bond angles



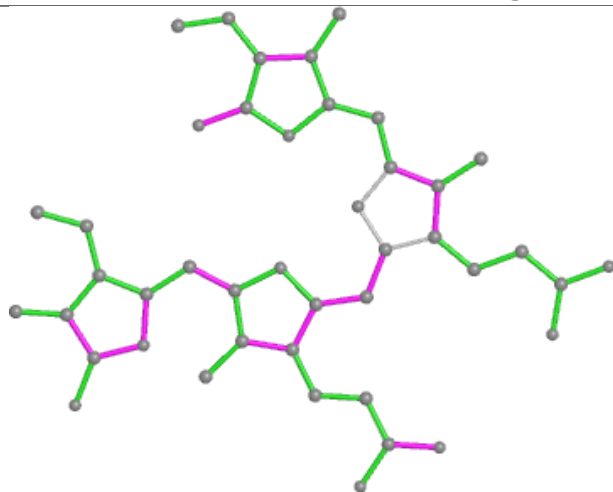
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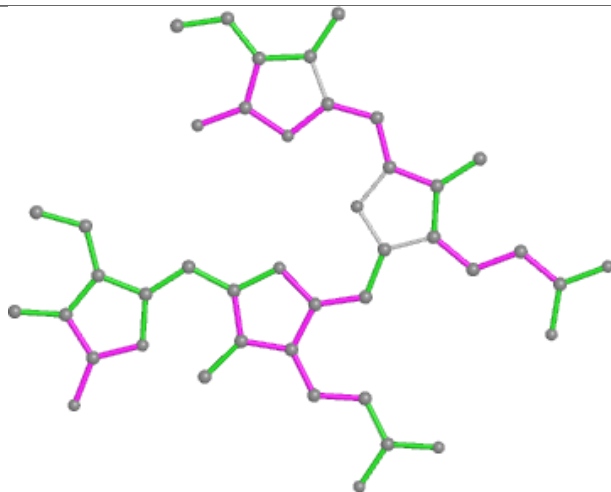
Rings



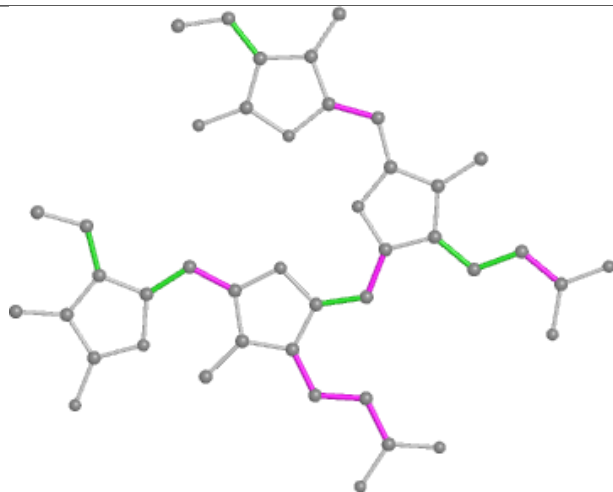
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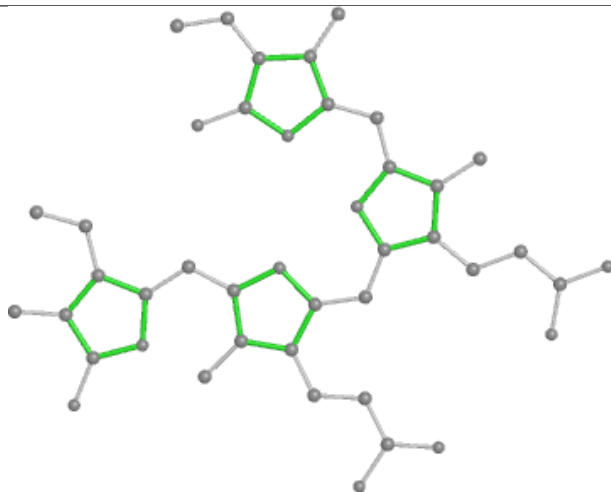
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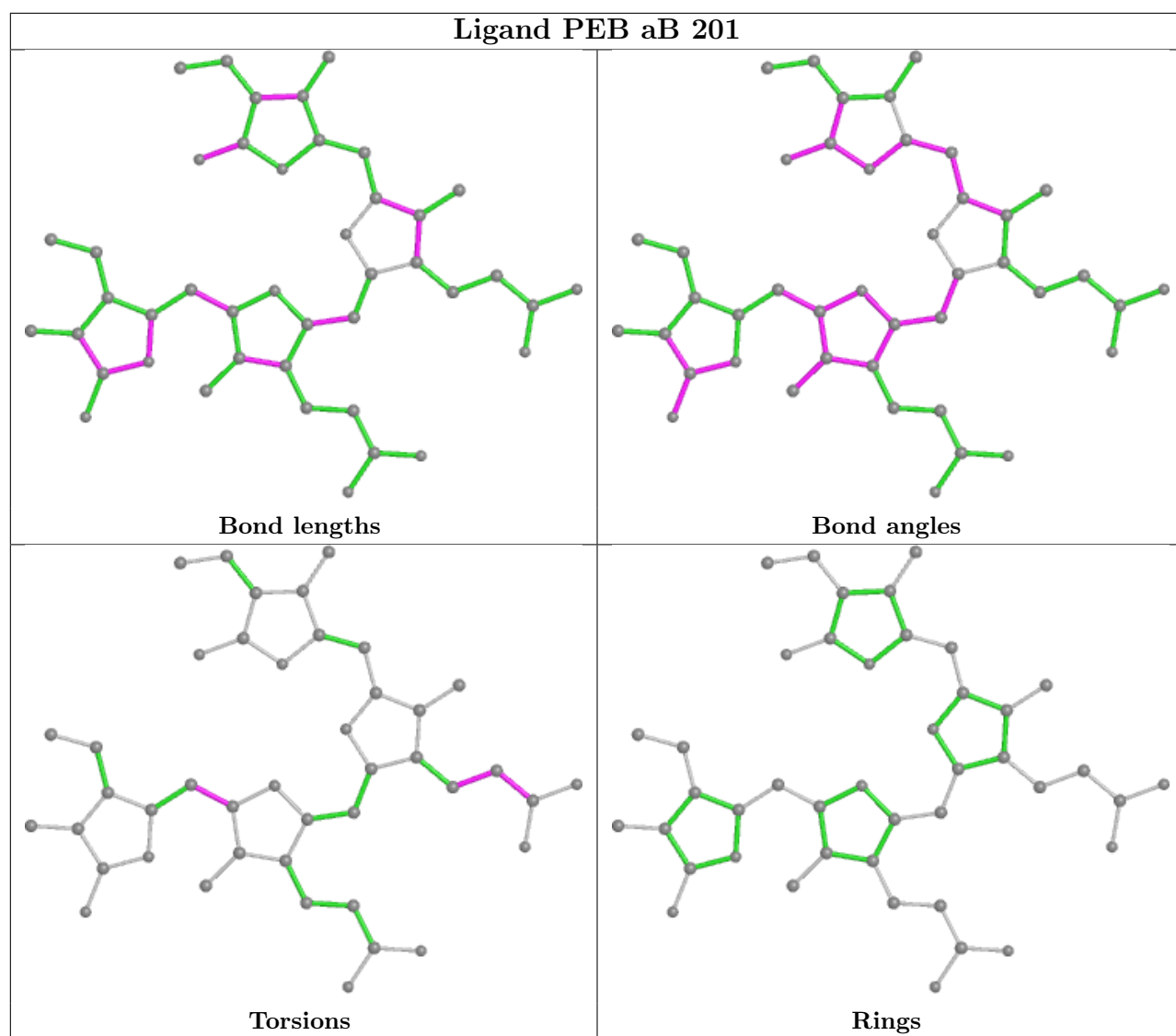
Bond angles

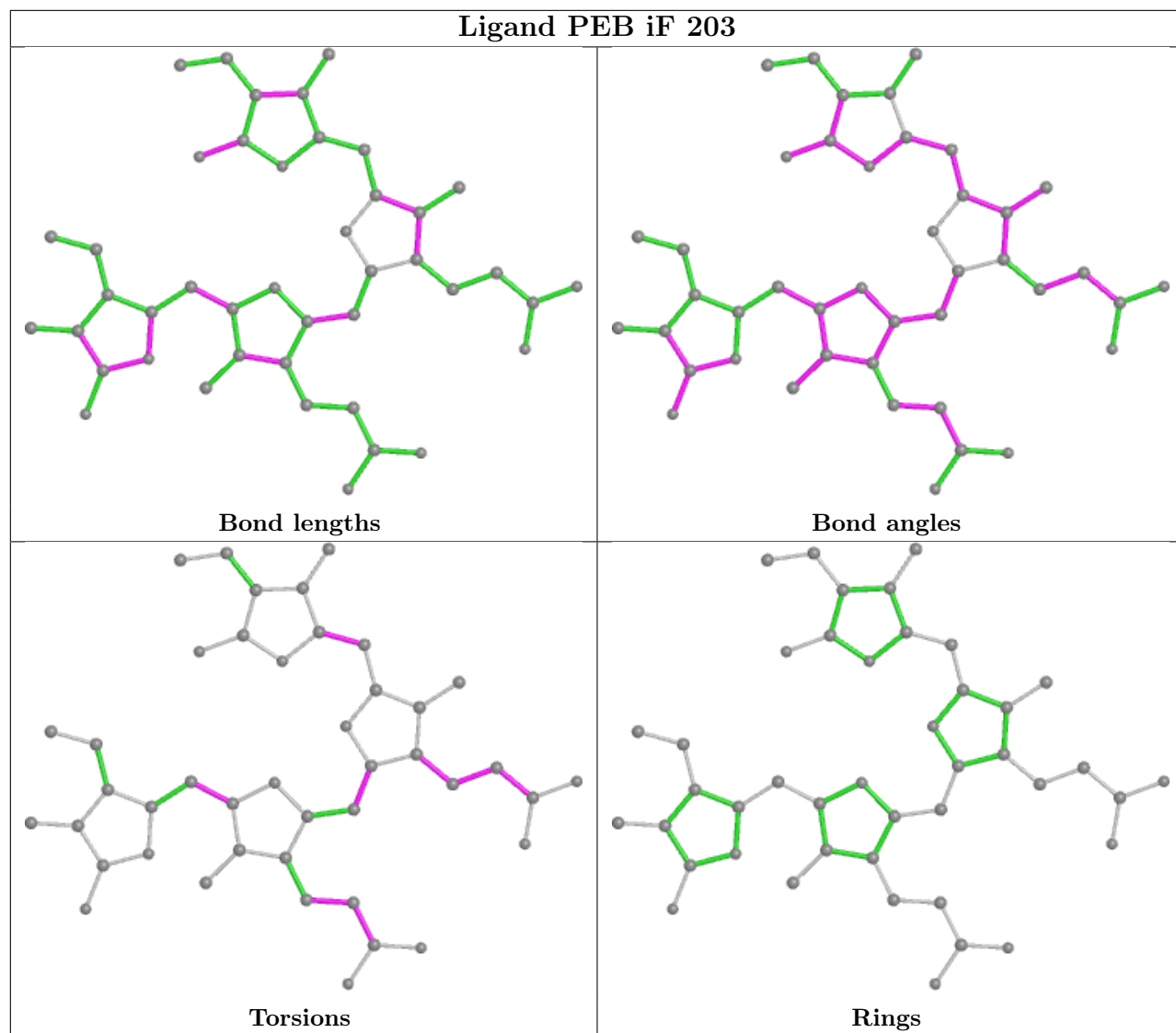


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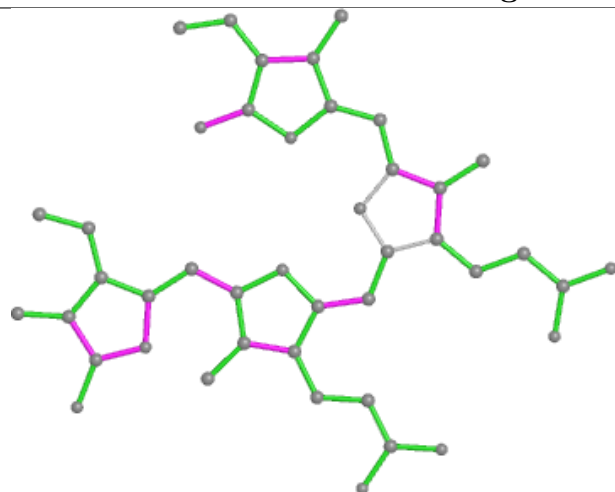


Rings

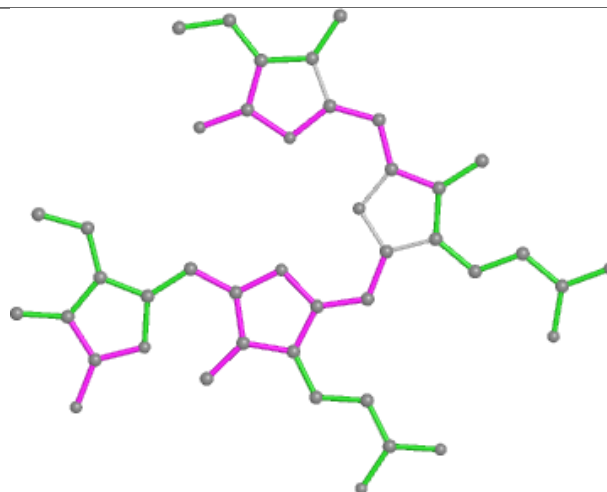




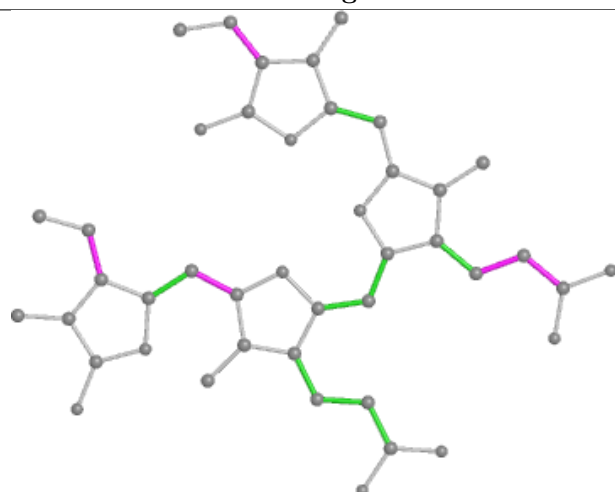
Ligand PEB WL 201



Bond lengths



Bond angles

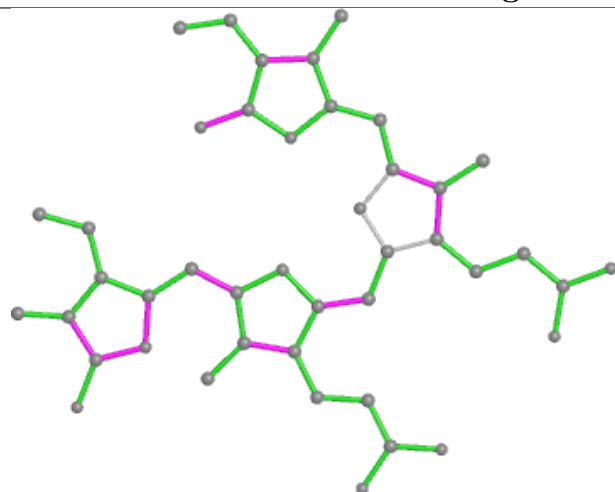


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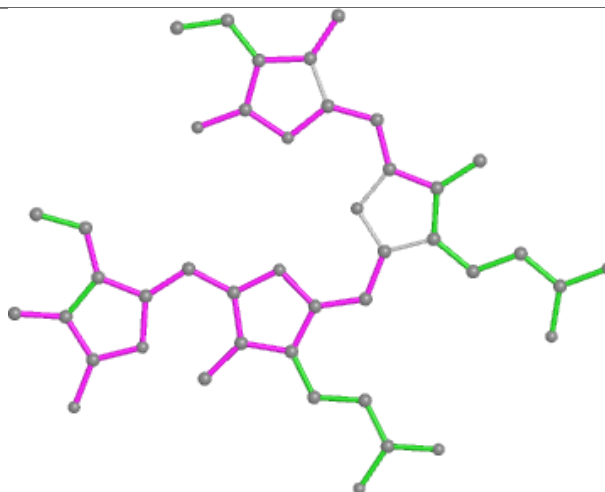


Rings

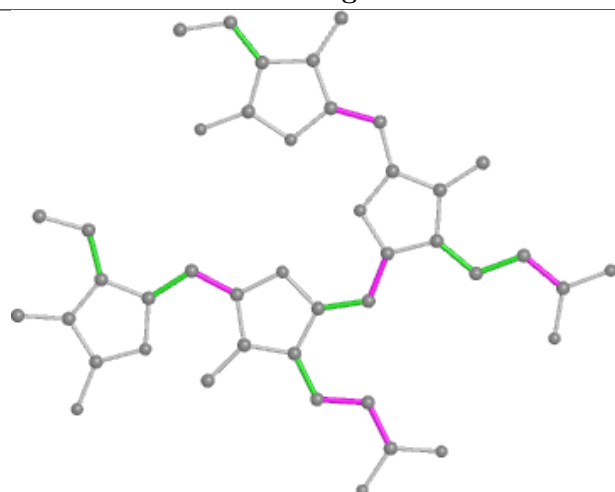
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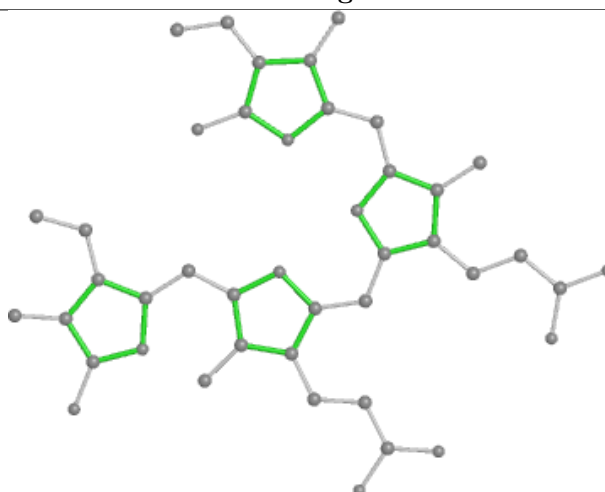
Bond lengths



Bond angles

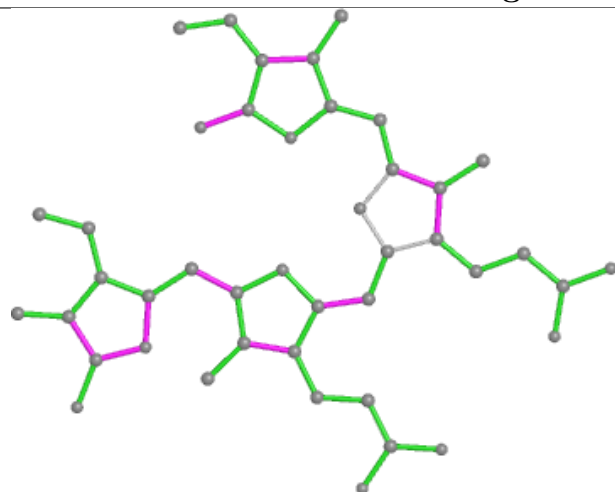


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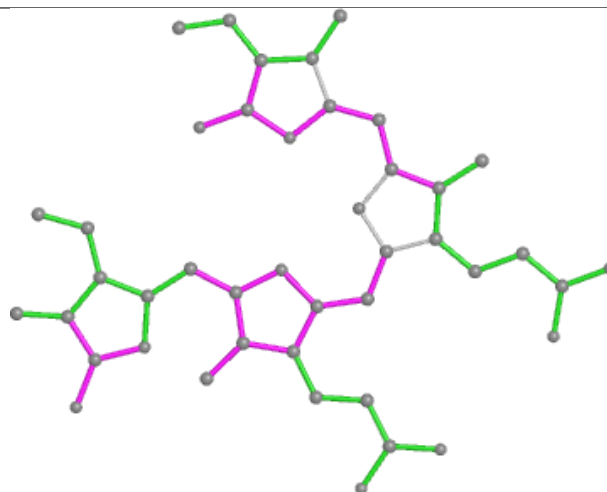


Rings

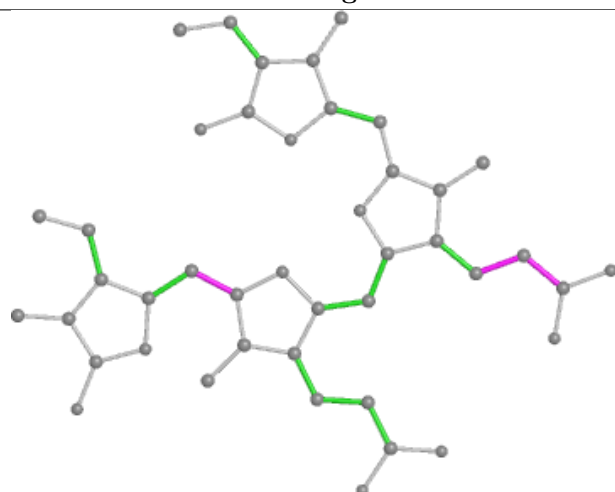
Ligand PEB SM 201



Bond lengths



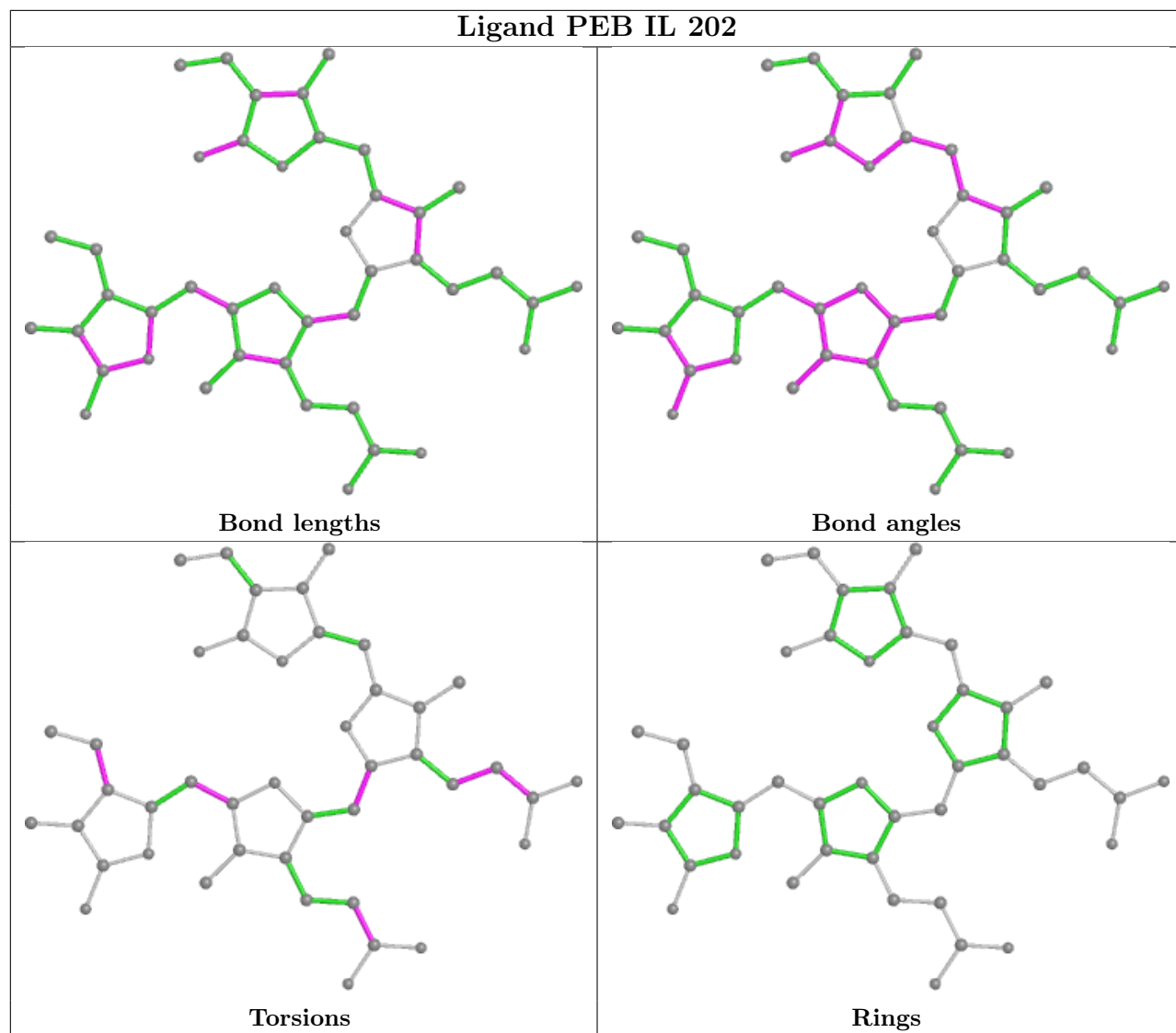
Bond angles

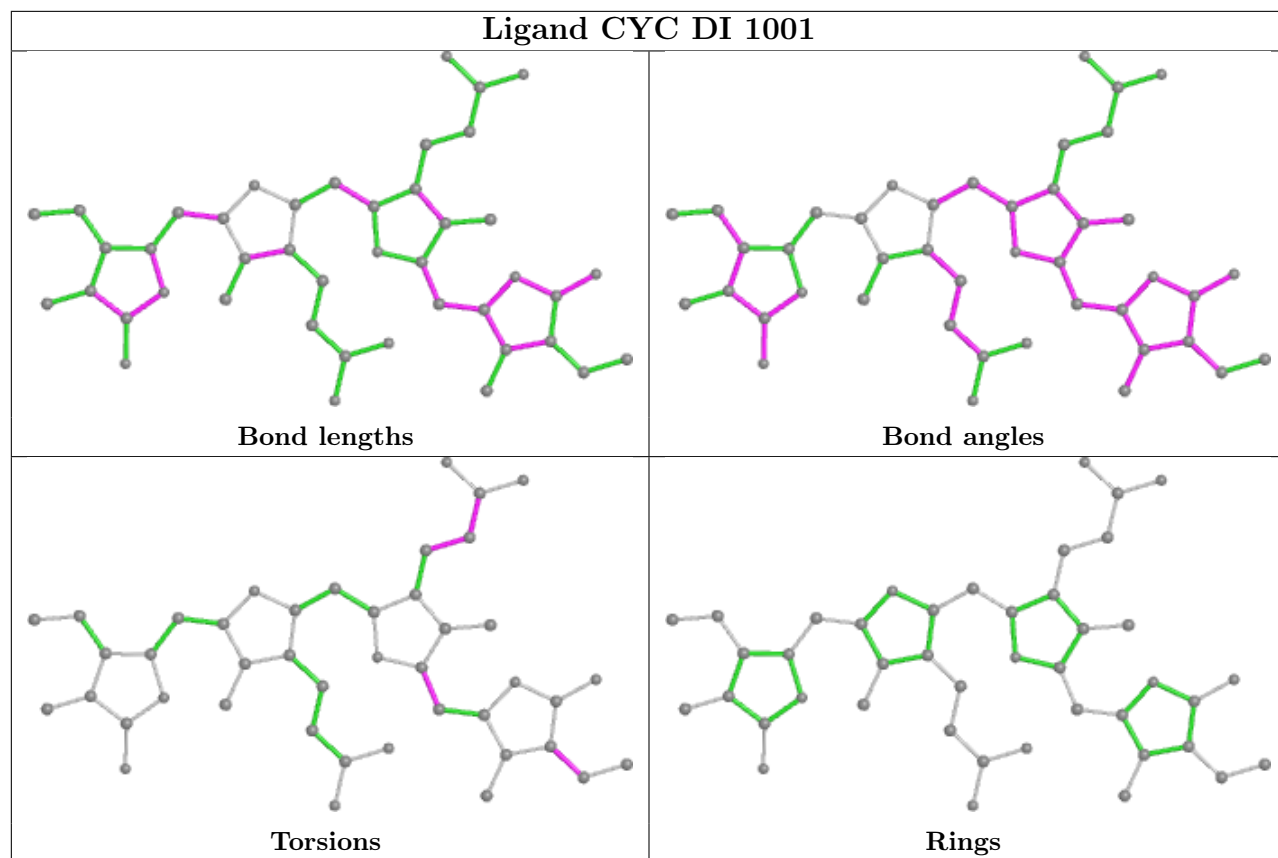


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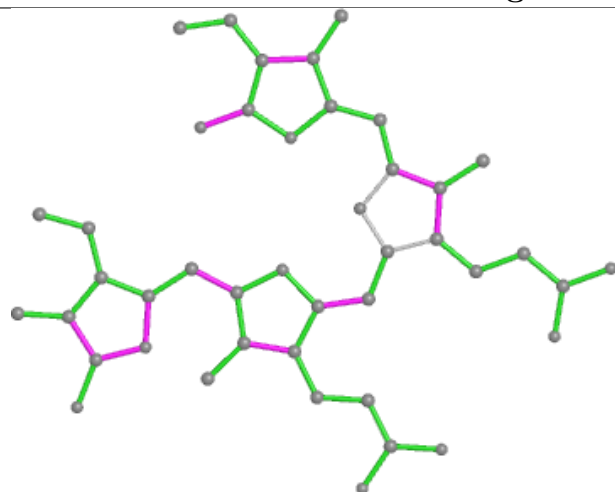


Rings

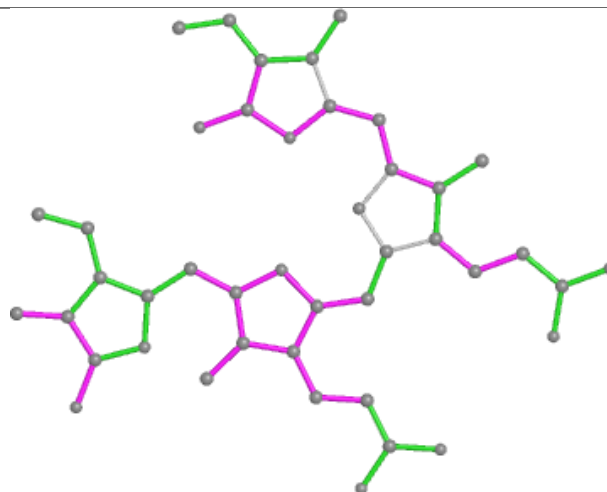




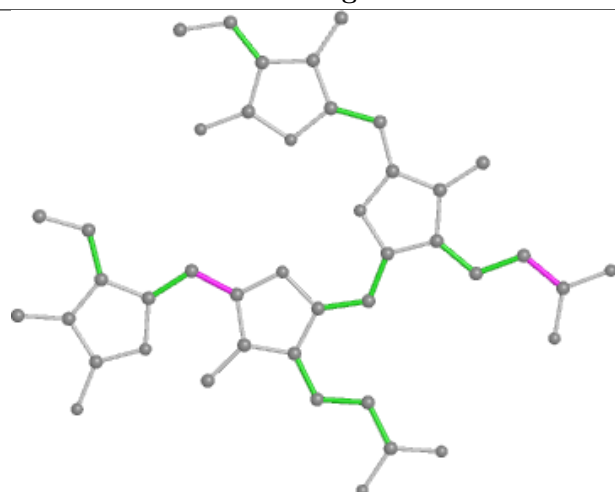
Ligand PEB K3 201



Bond lengths



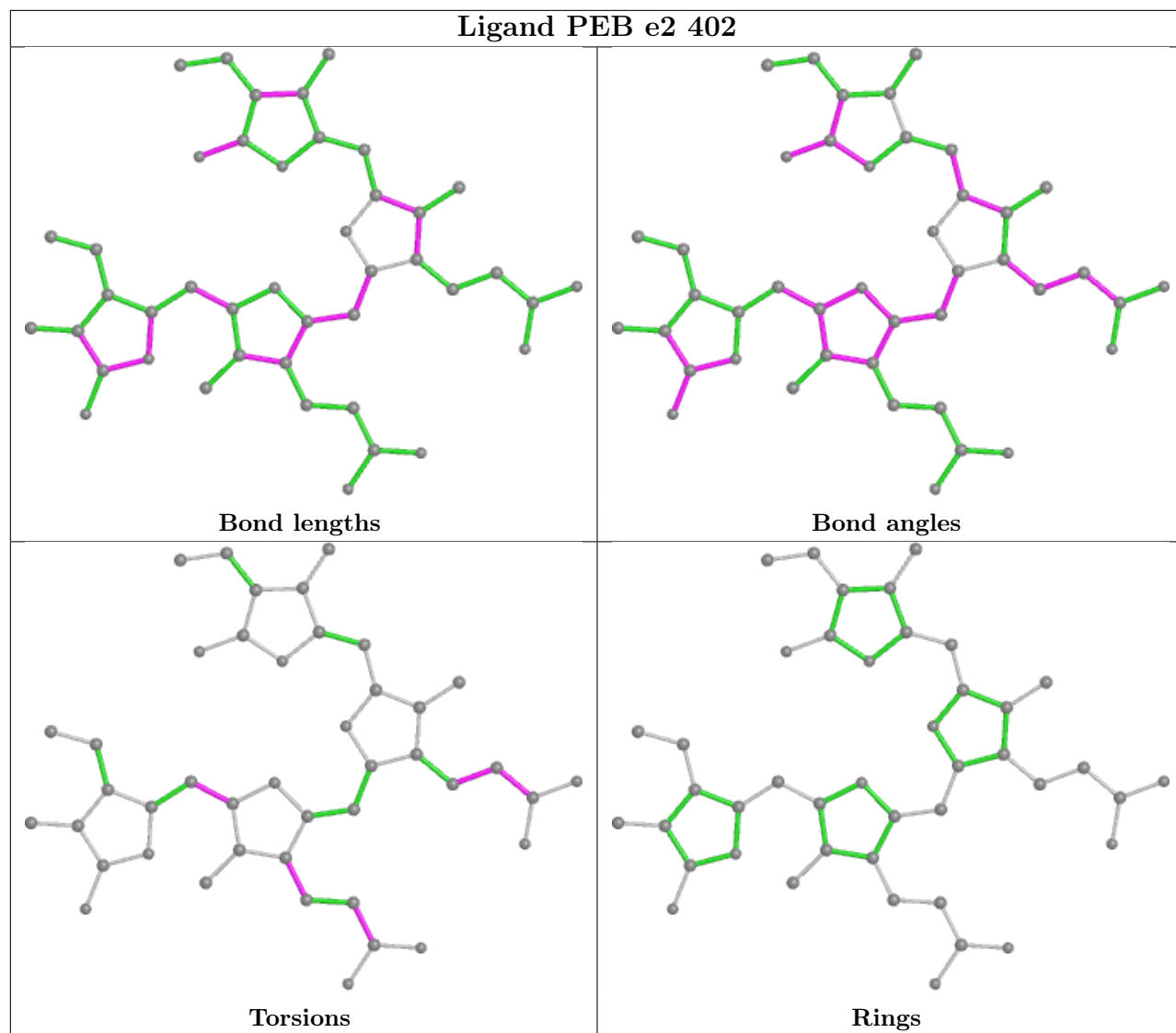
Bond angles

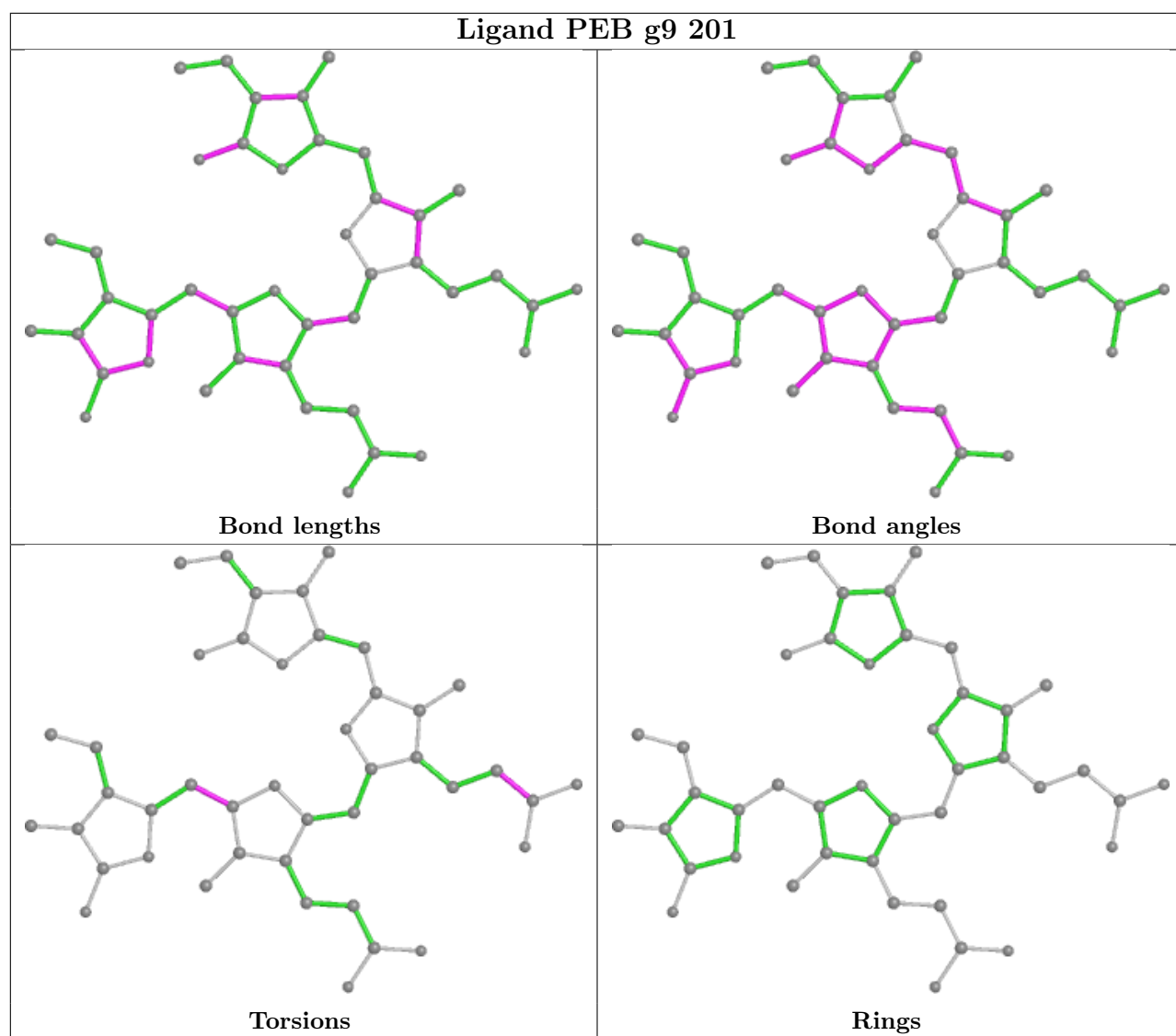


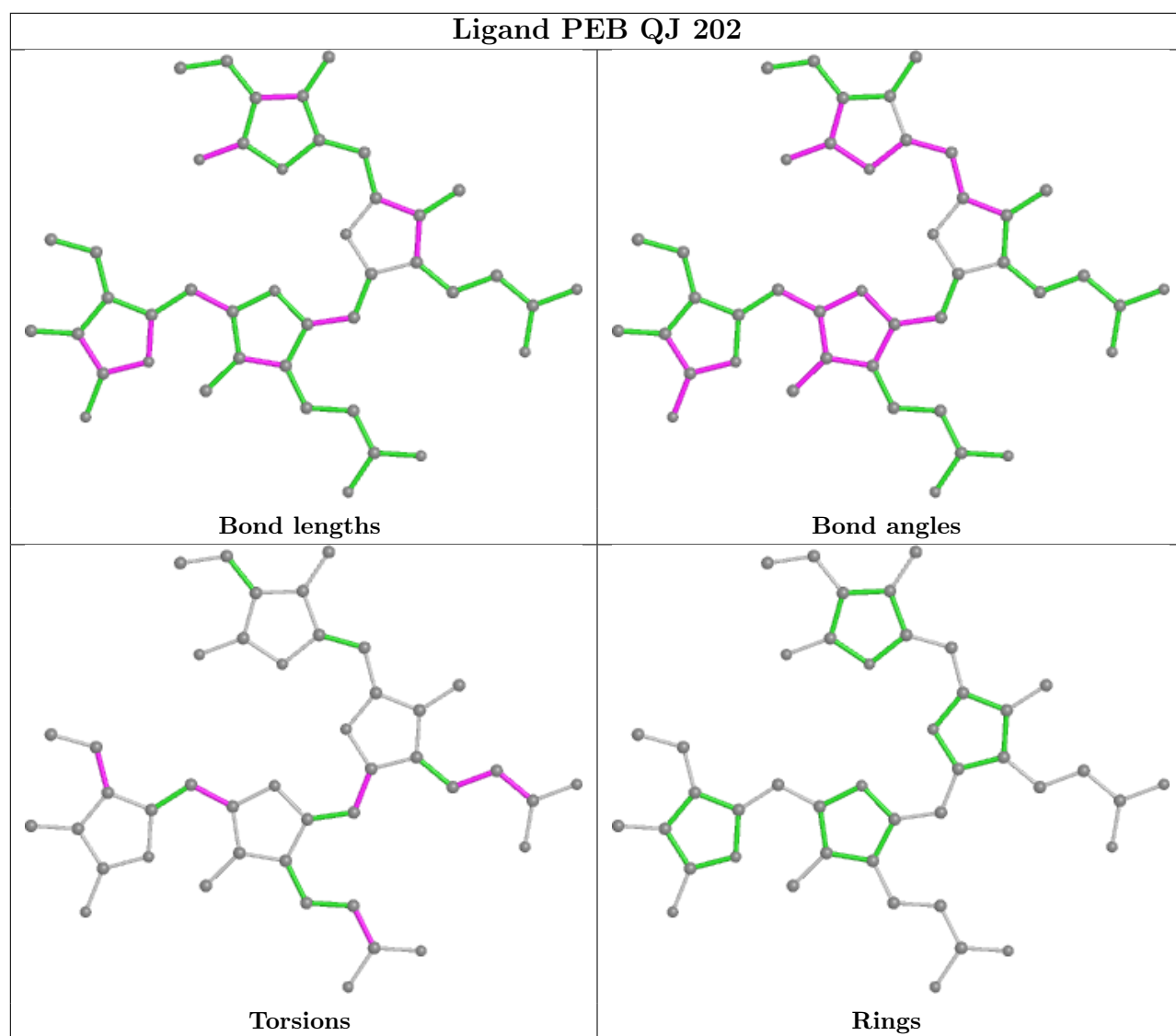
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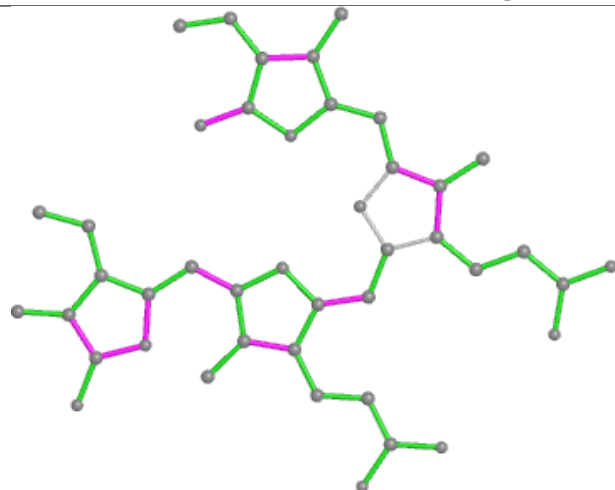
Rings



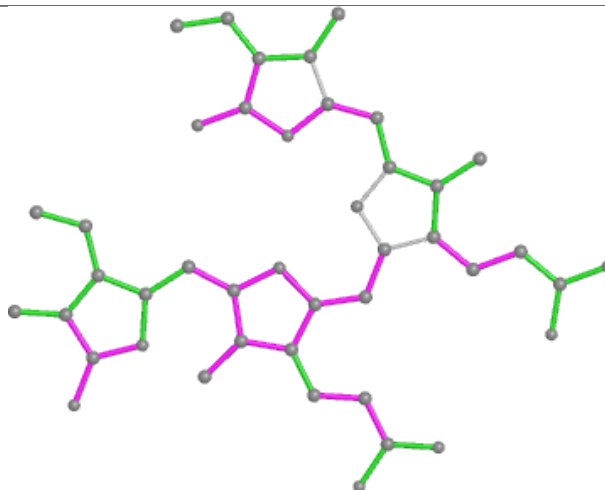




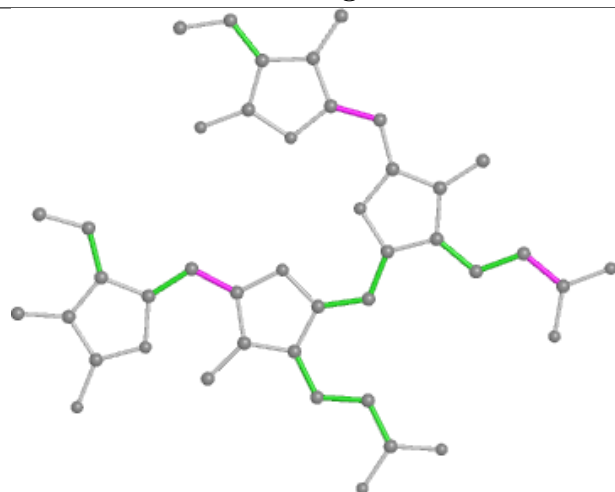
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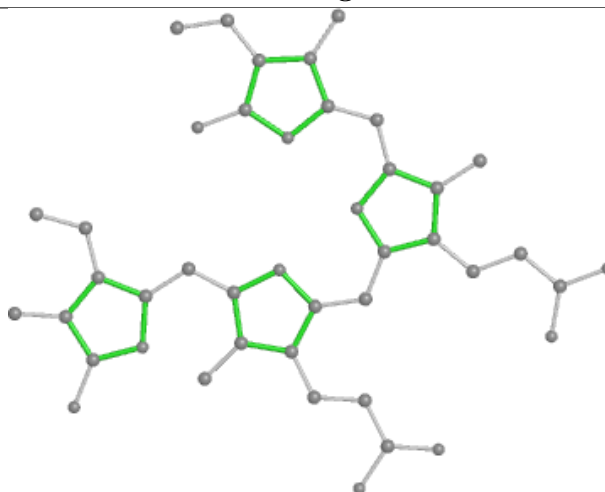
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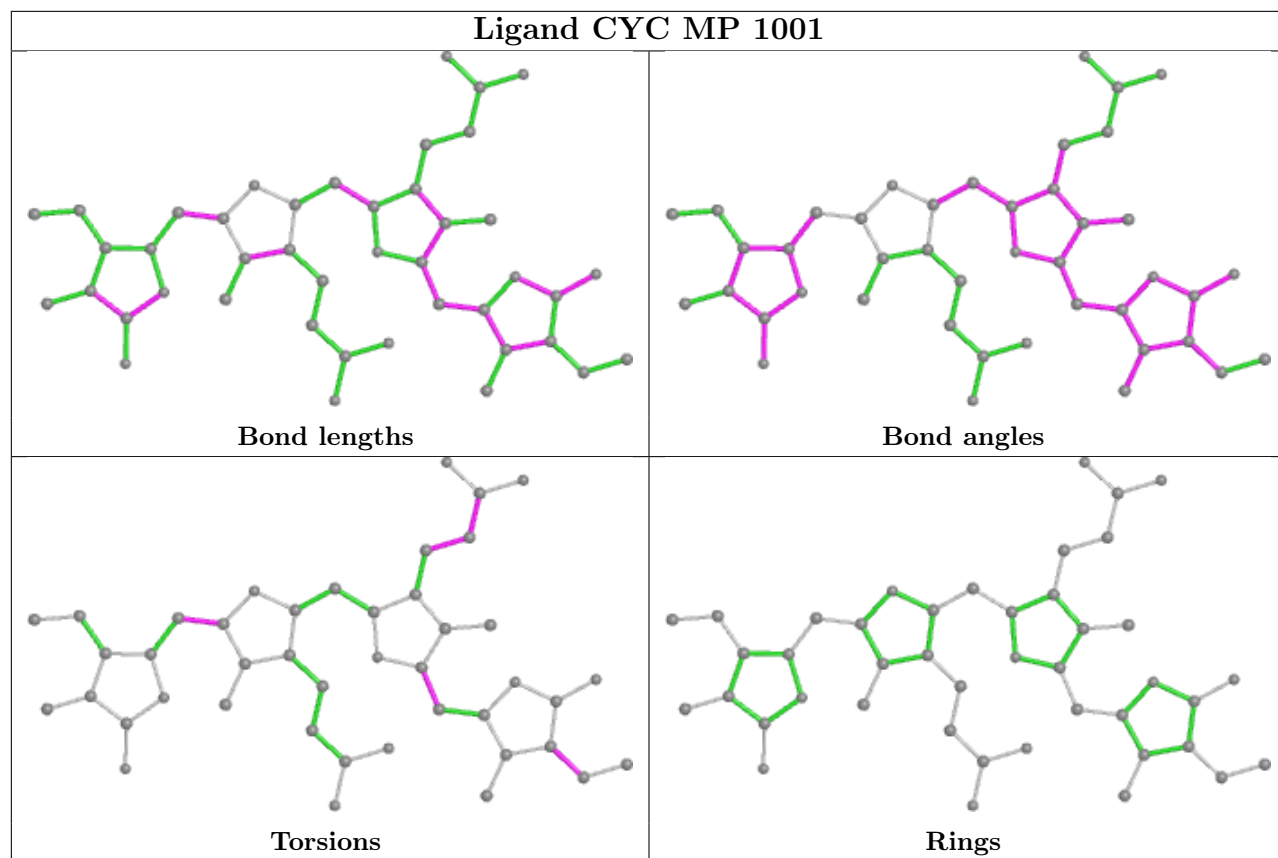
Bond angles



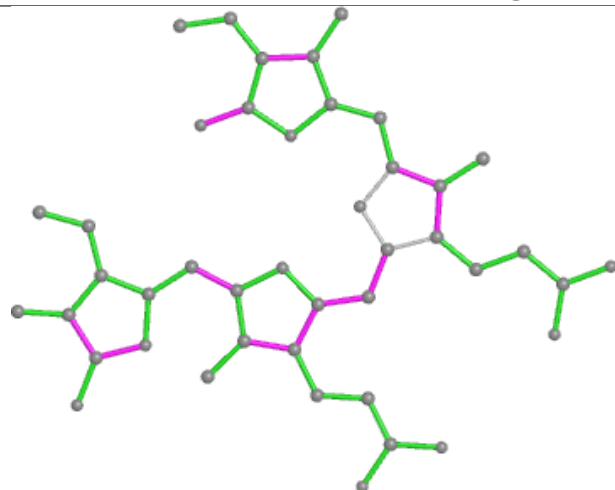
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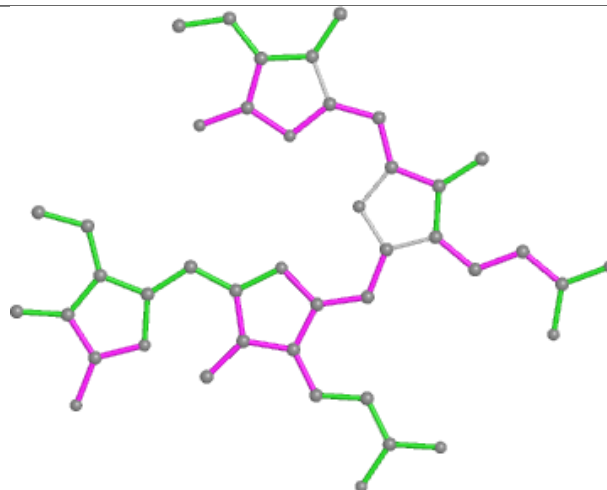
Rings



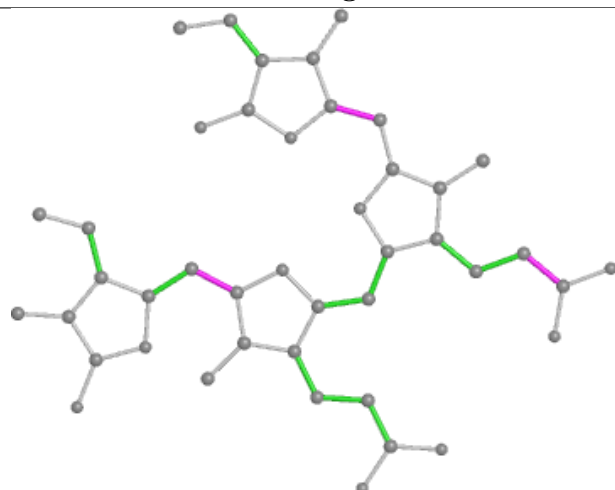
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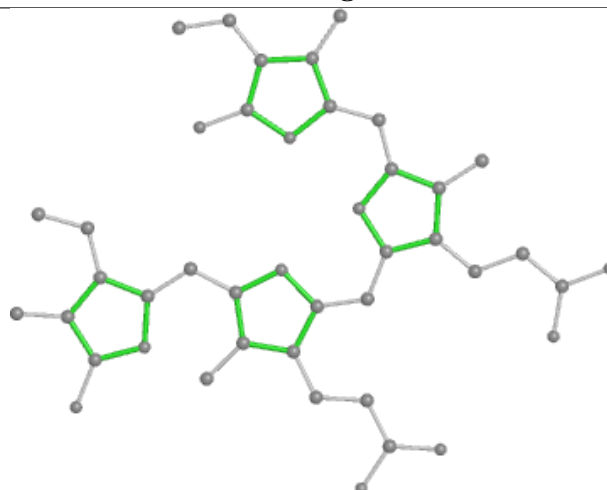
Bond lengths



Bond angles

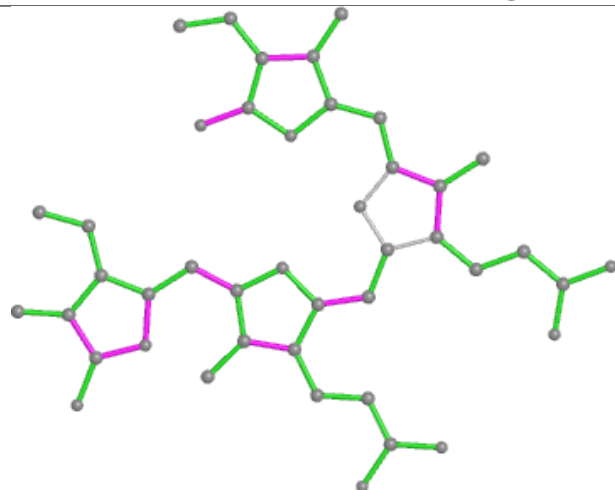


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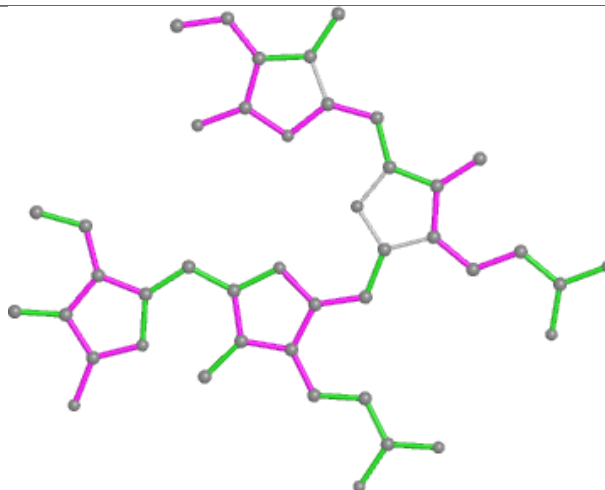


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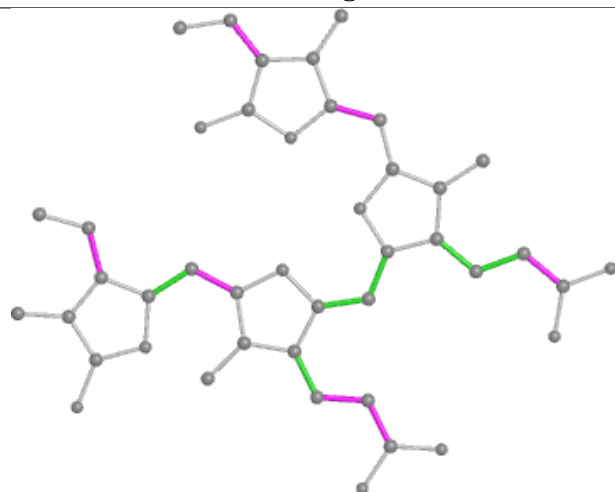
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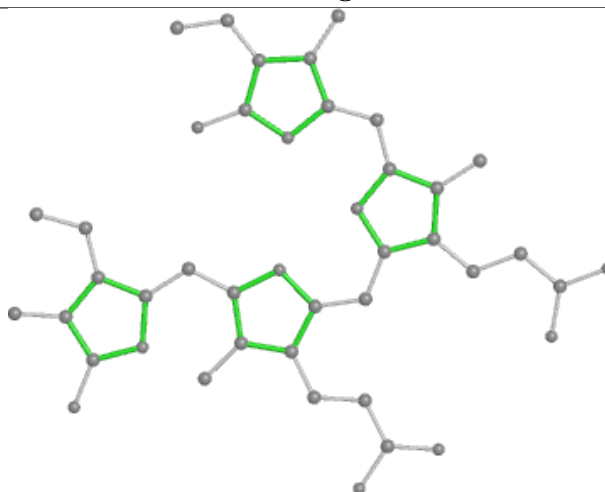
Bond lengths



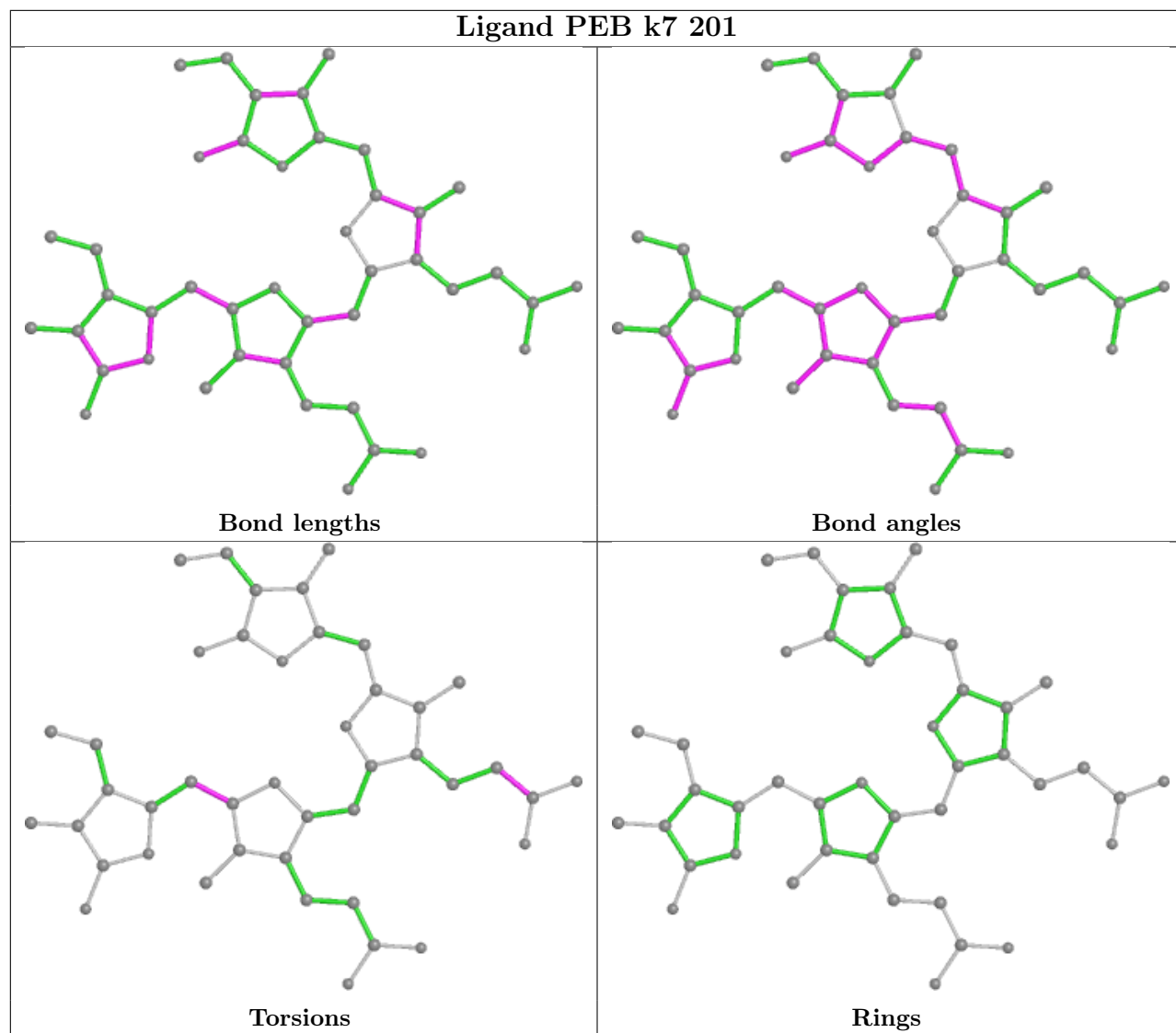
Bond angles



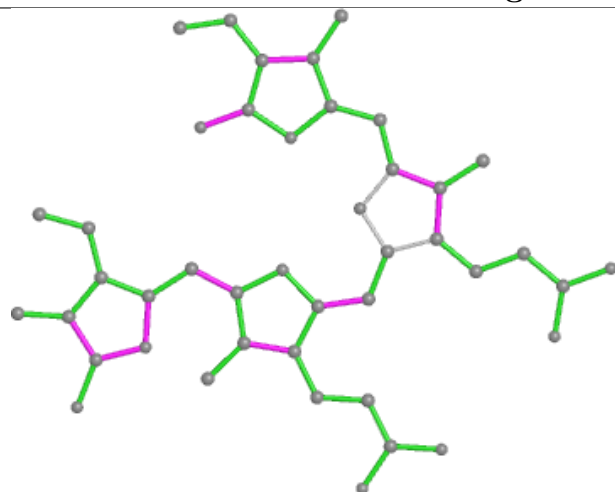
Torsions



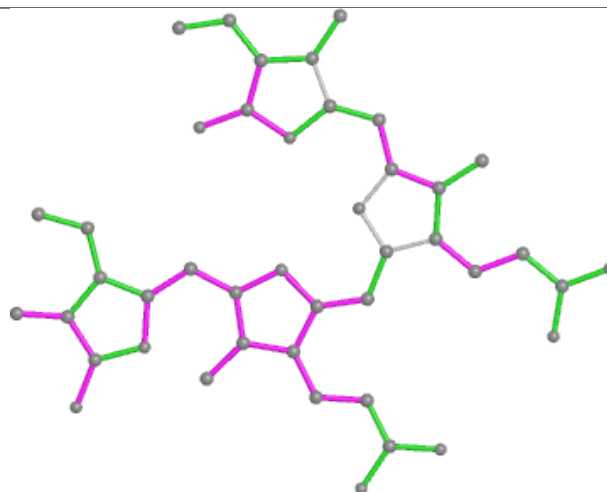
Rings



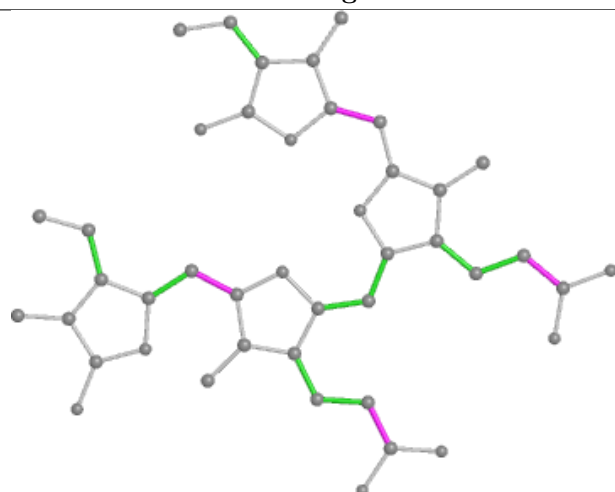
Ligand PEB dK 201



Bond lengths



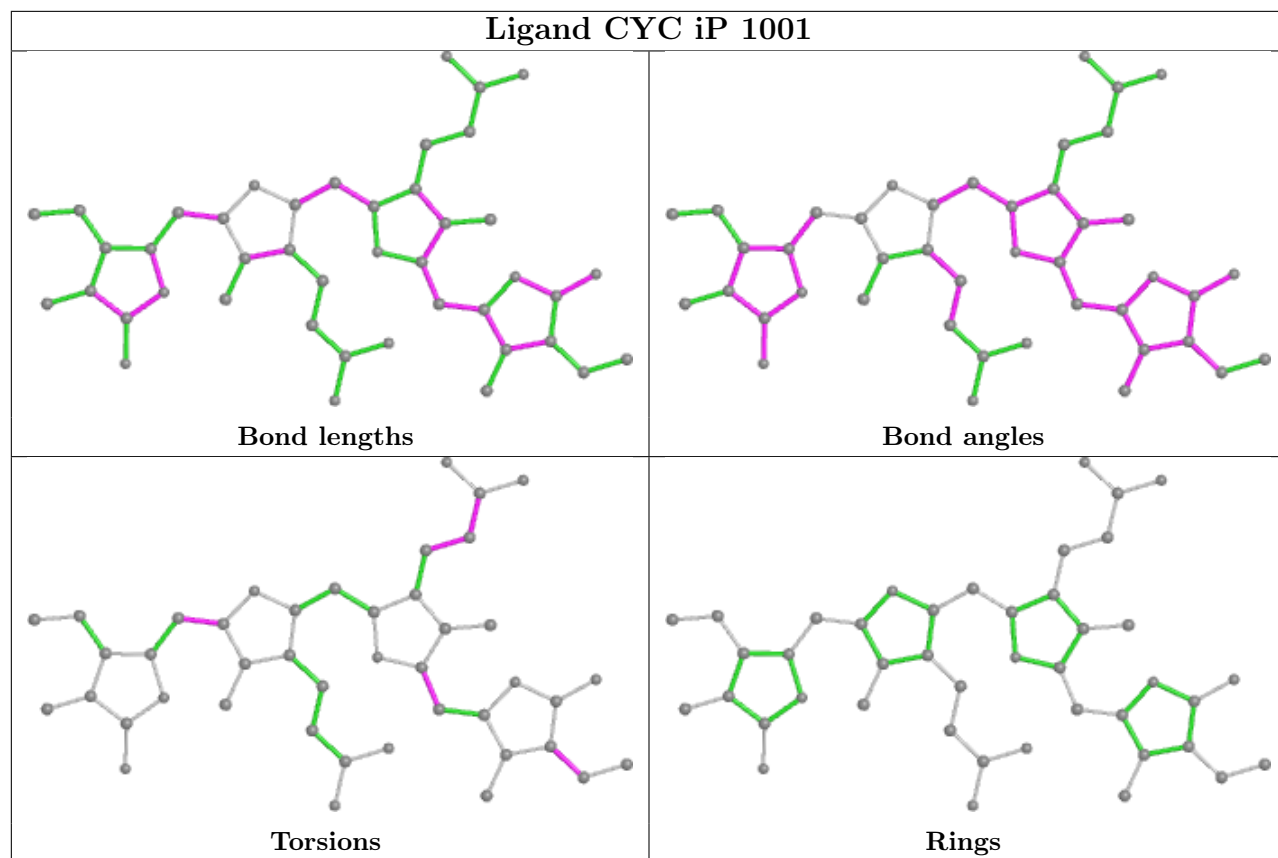
Bond angles



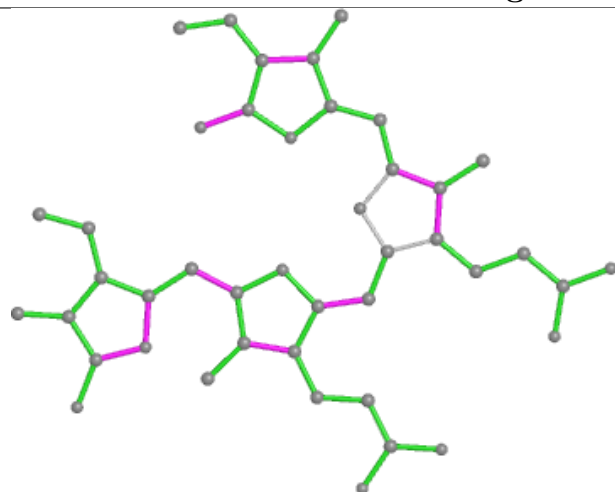
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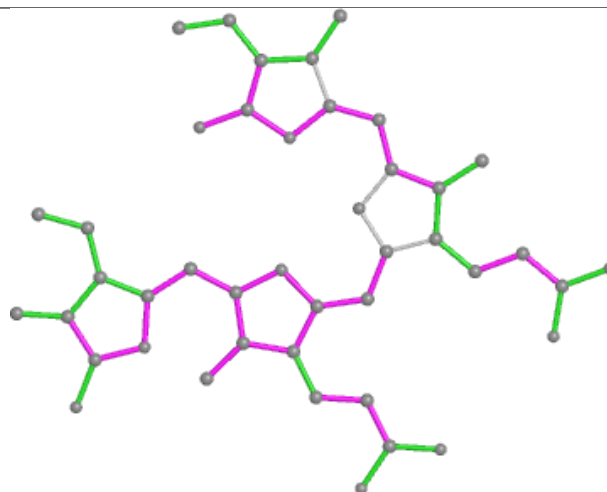
Rings



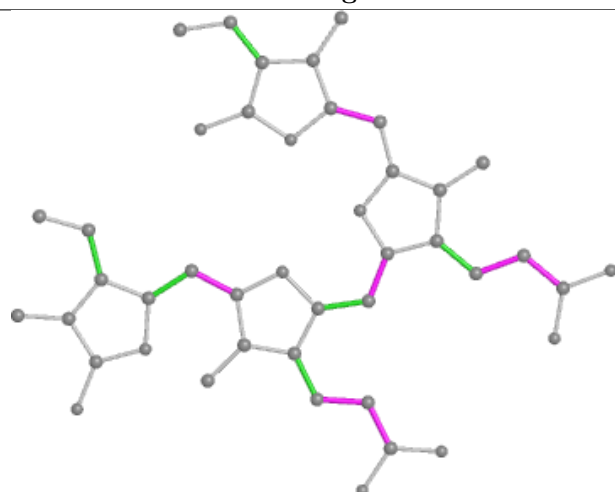
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Bond lengths



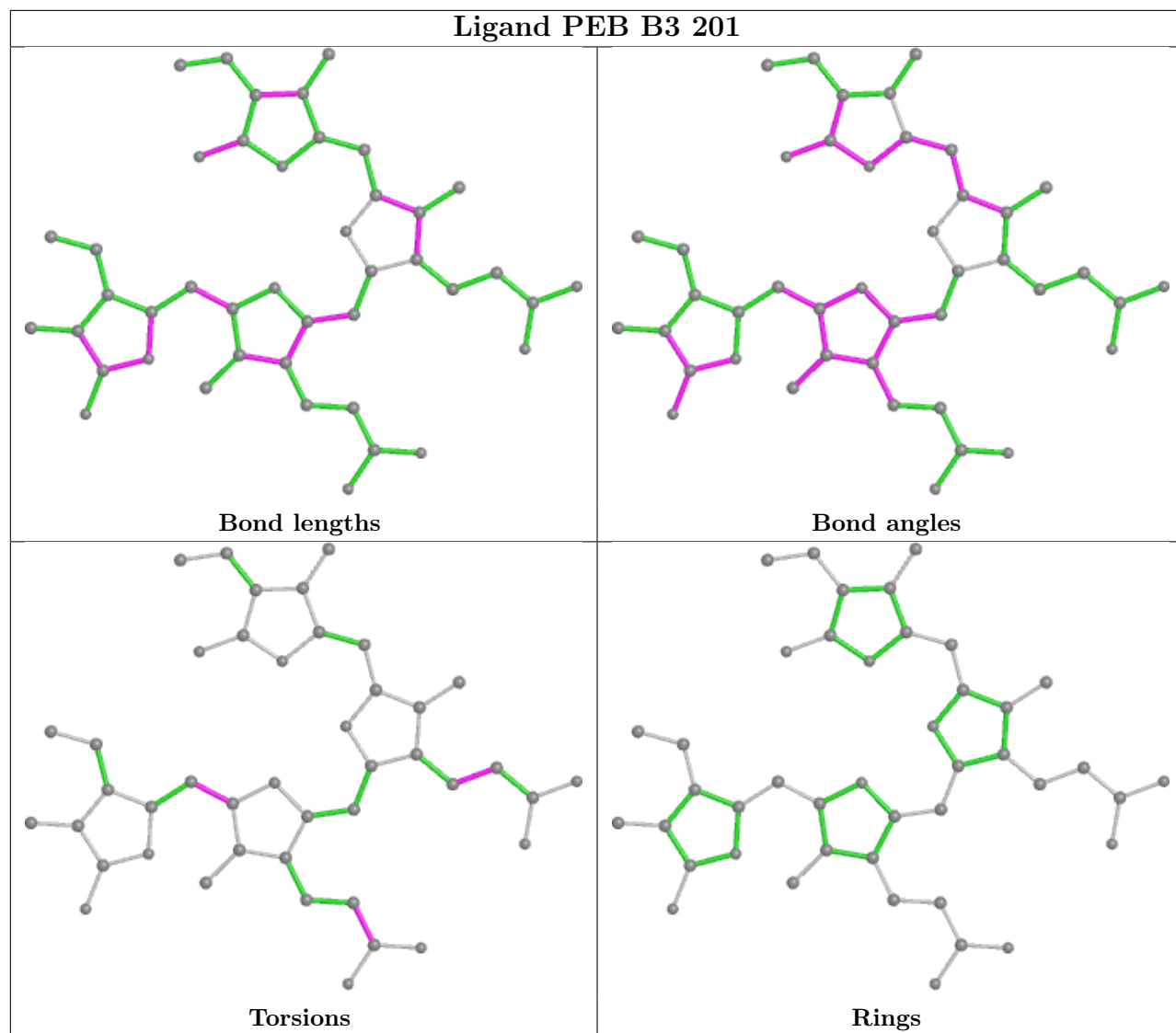
Bond angles

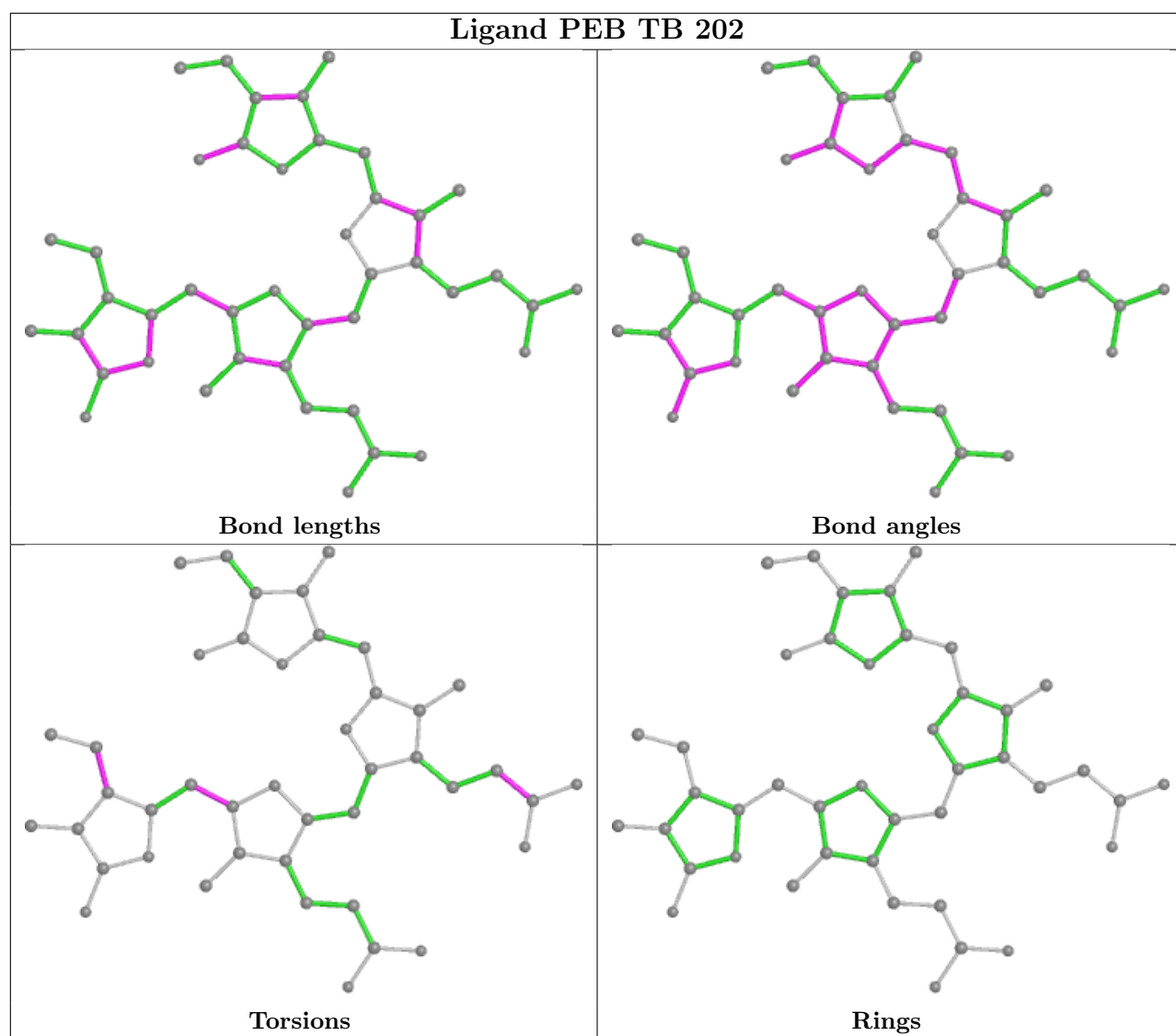


Torsions

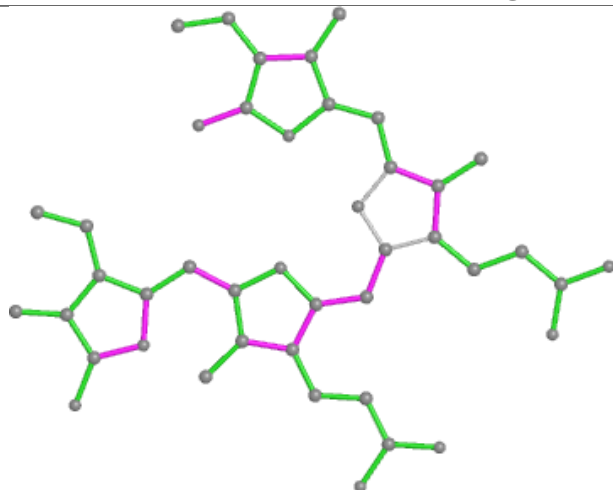


Rings

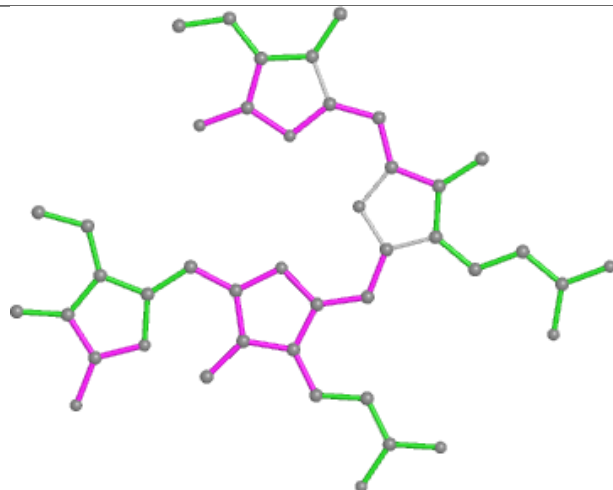




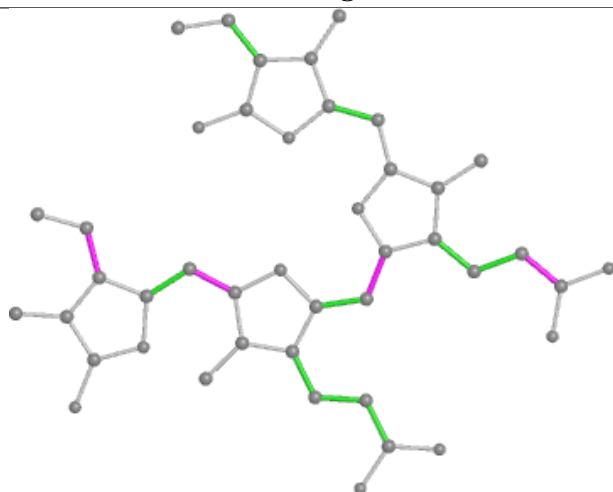
Ligand PEB FC 202



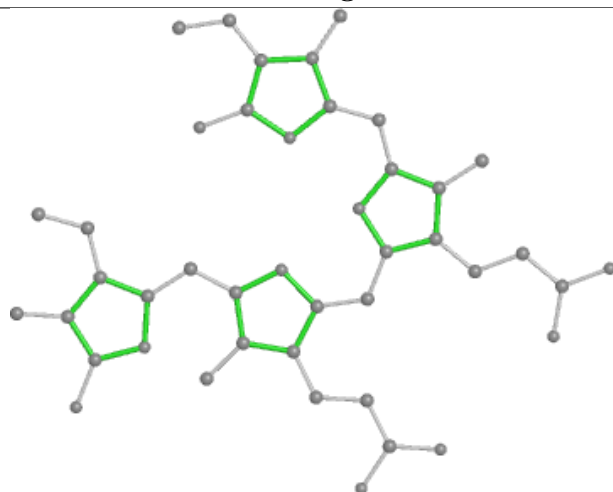
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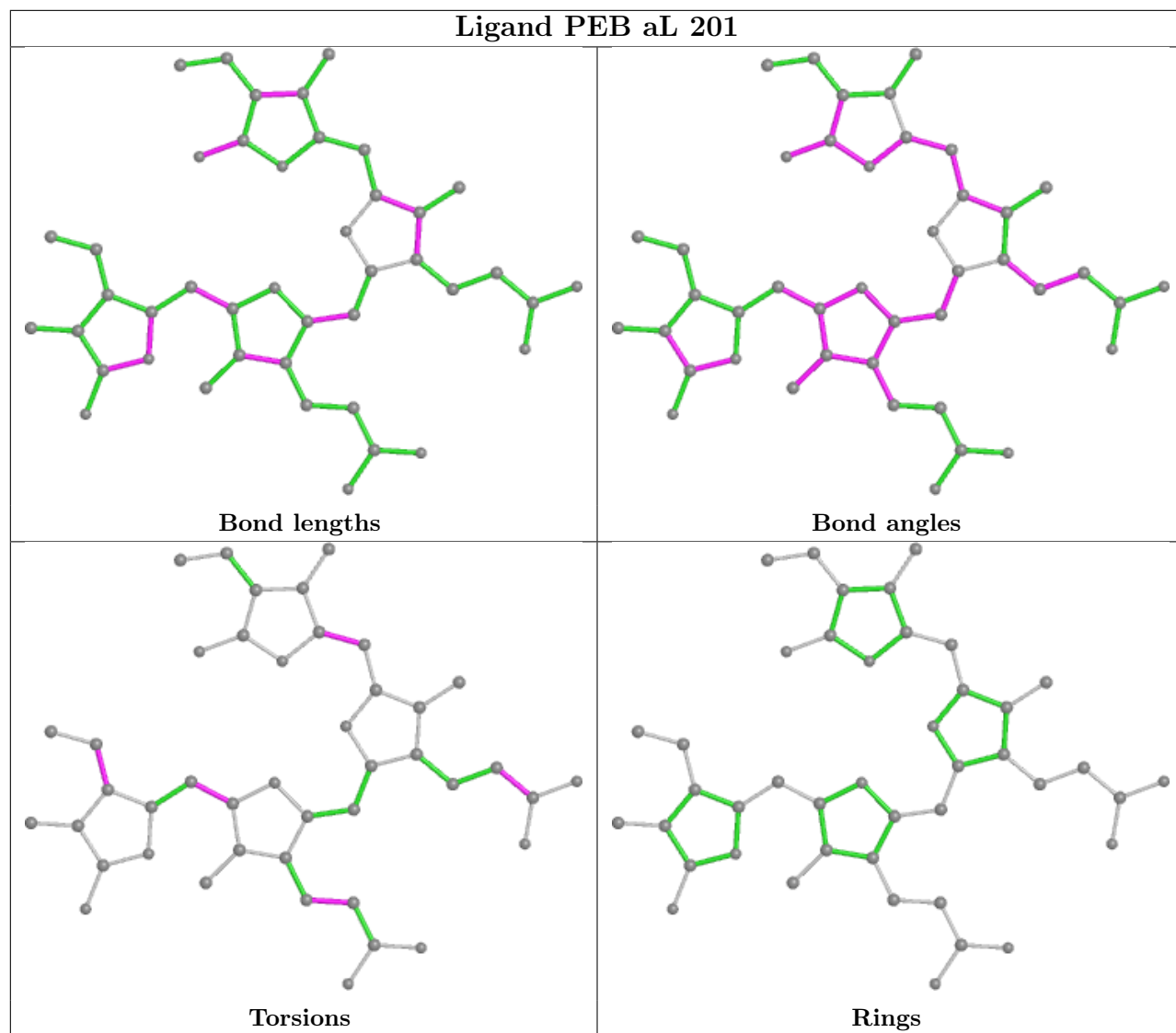
Bond angles

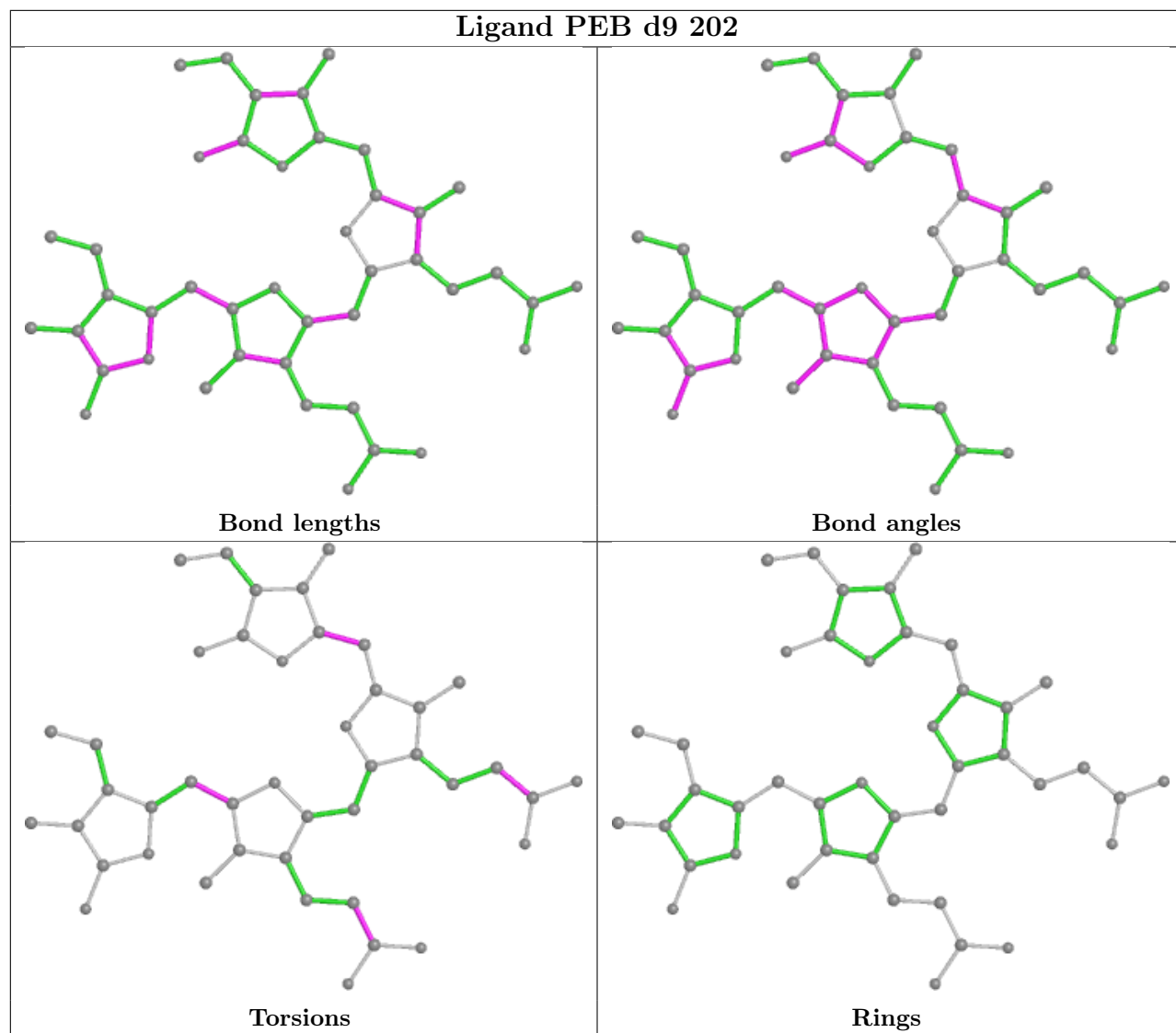


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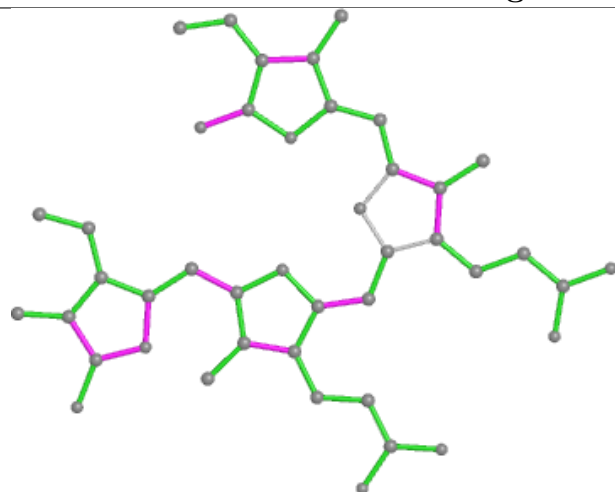


Rings

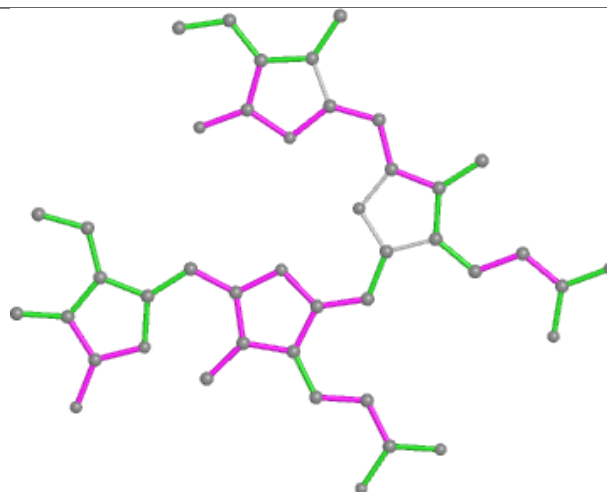




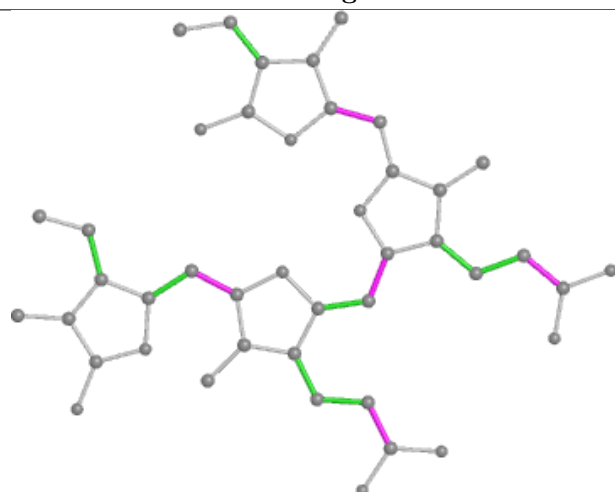
Ligand PEB K5 203



Bond lengths



Bond angles

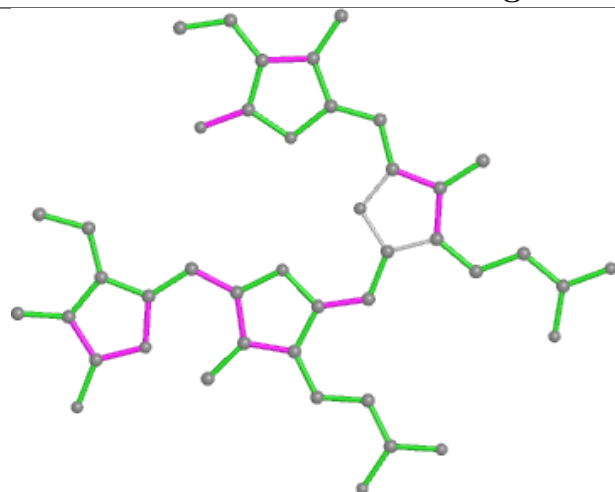


Torsions

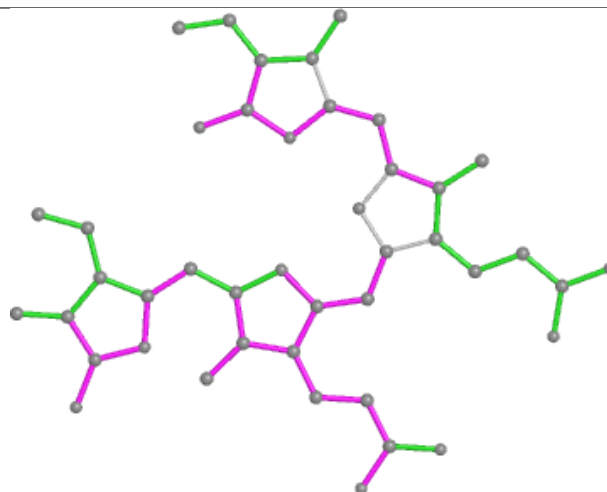


Rings

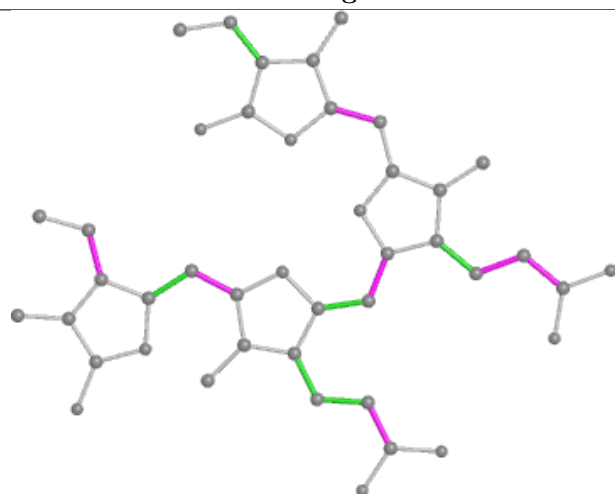
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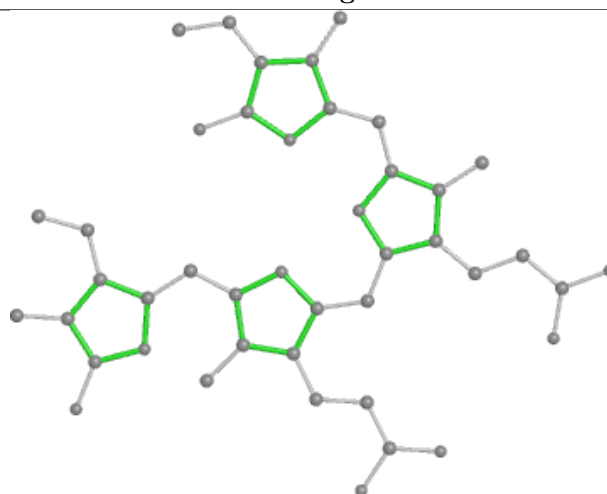
Bond lengths



Bond angles

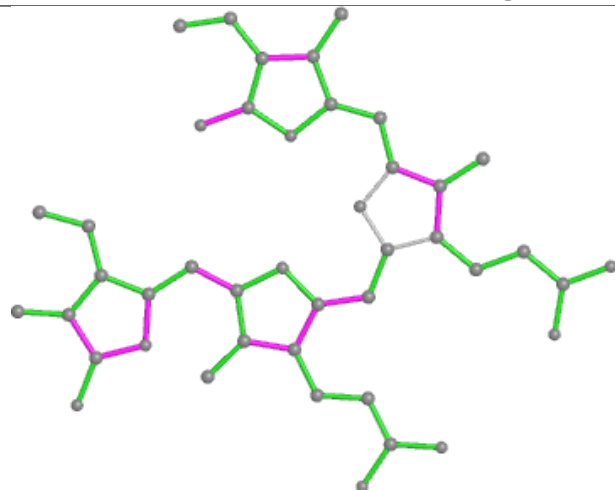


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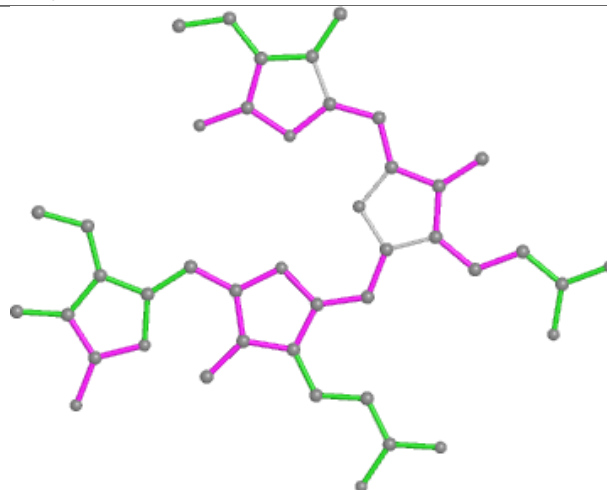


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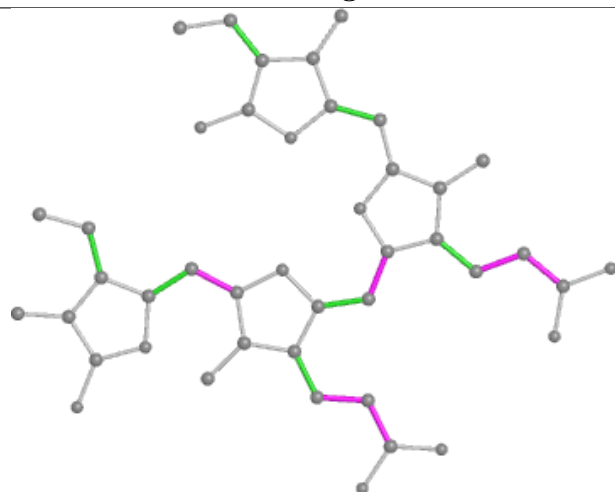
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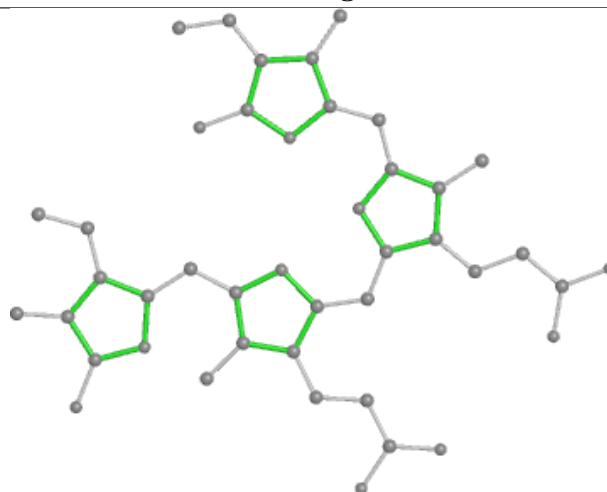
Bond lengths



Bond angles

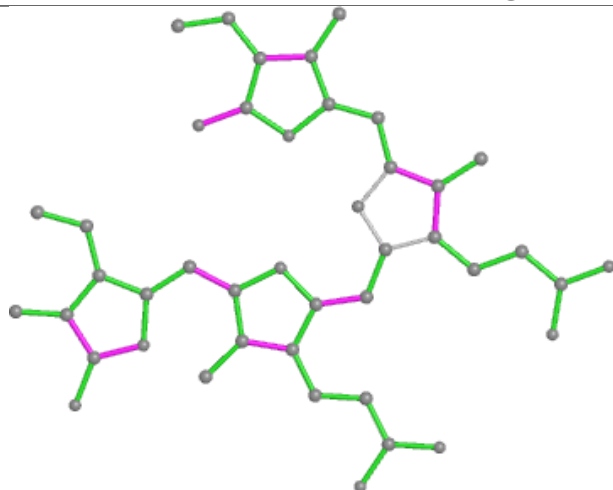


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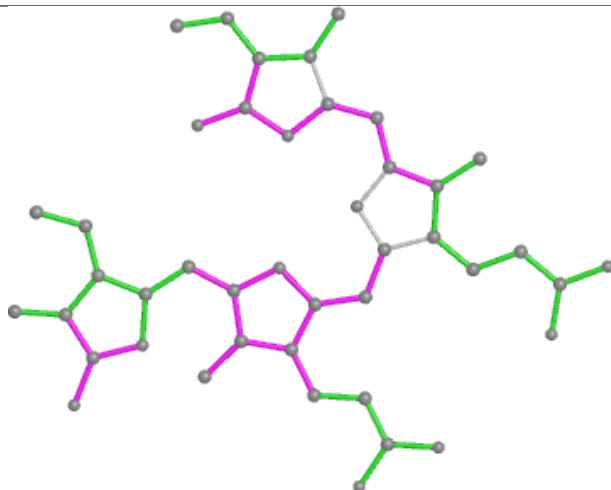


Rings

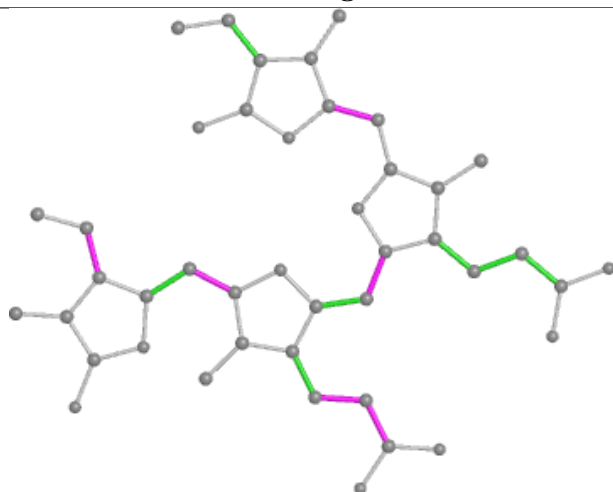
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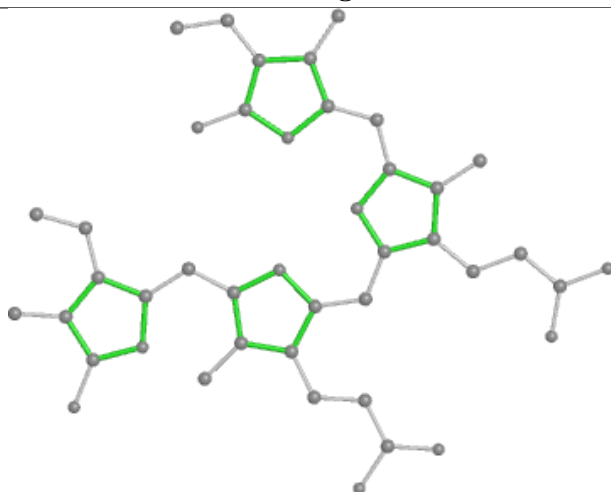
Bond lengths



Bond angles

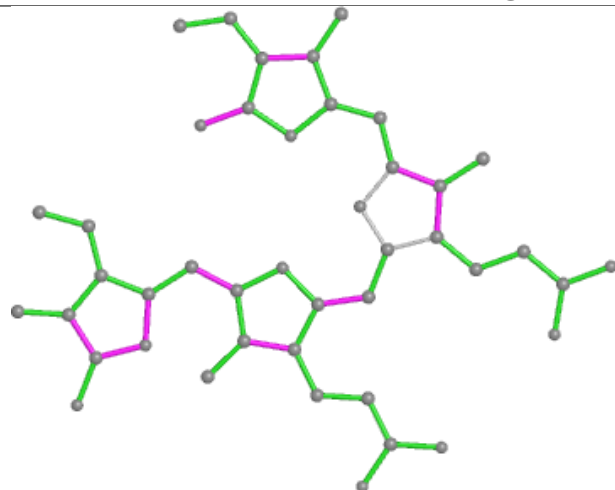


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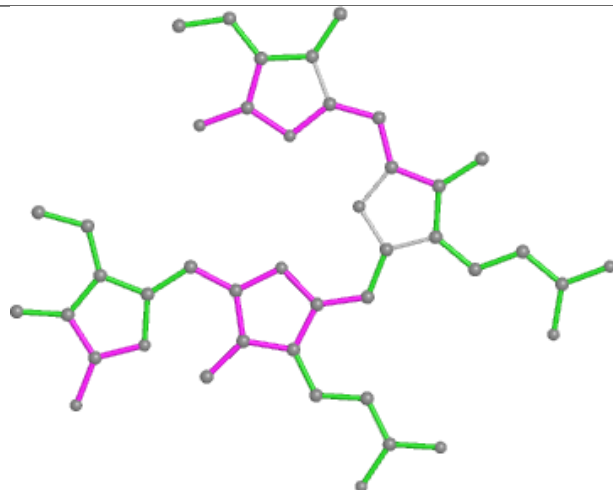


Rings

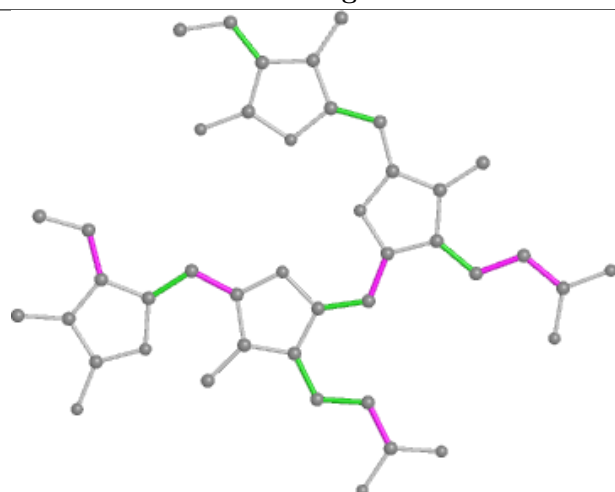
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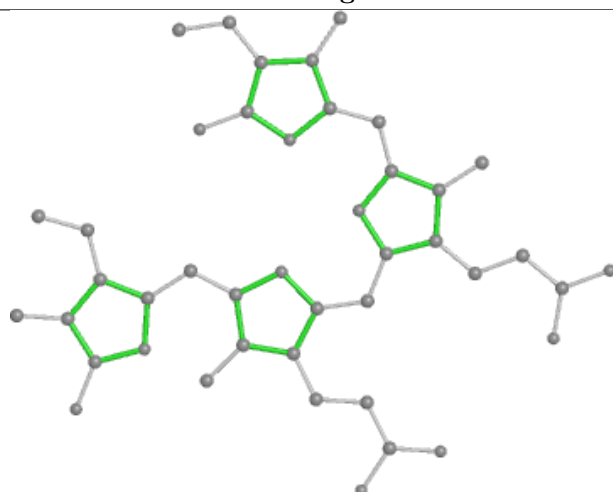
Bond lengths



Bond angles

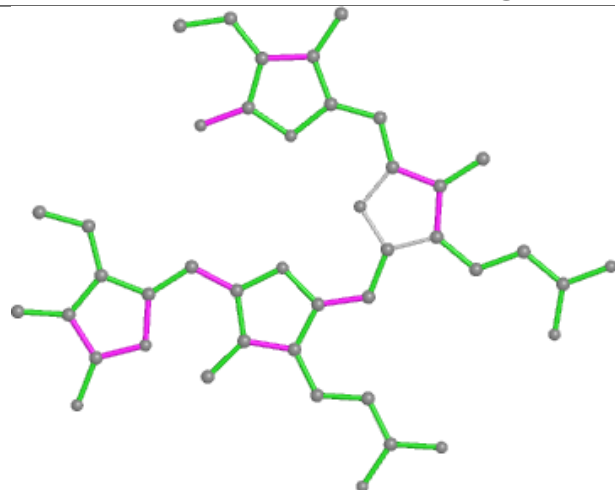


Torsions

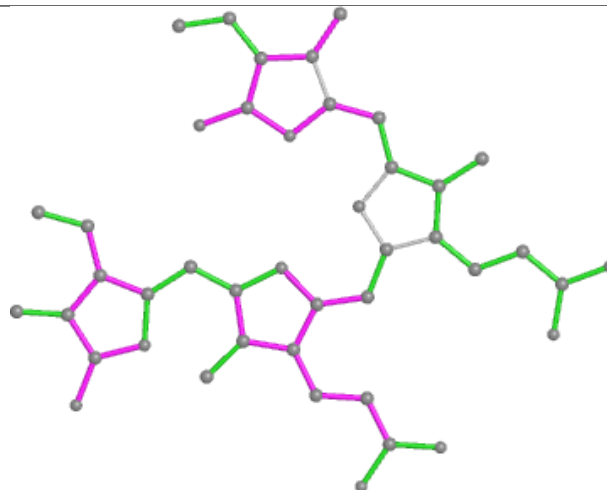


Rings

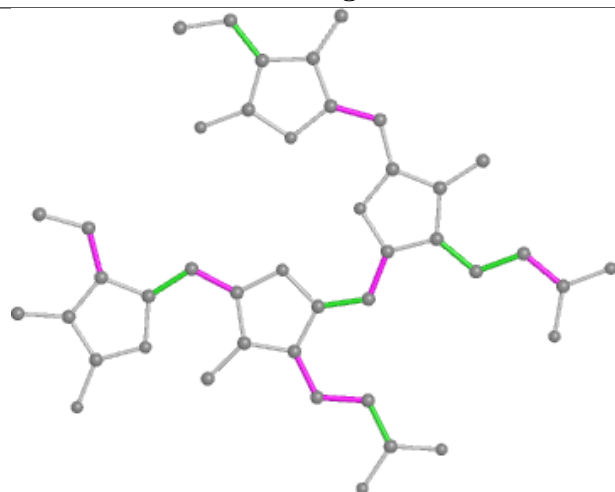
Ligand PEB N7 1002



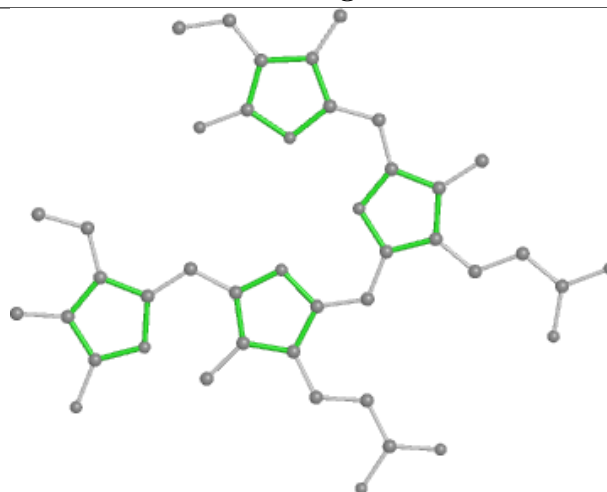
Bond lengths



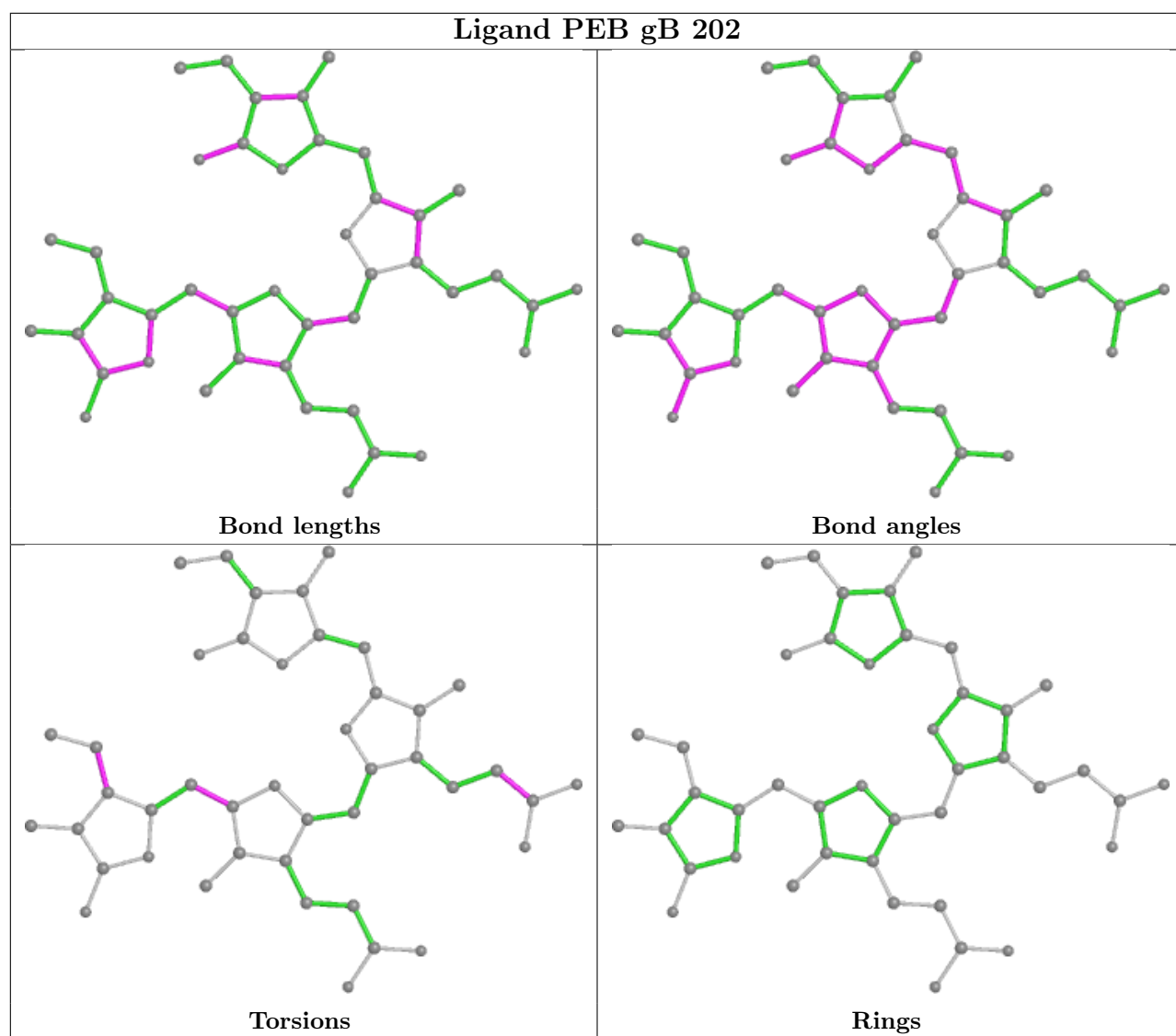
Bond angles



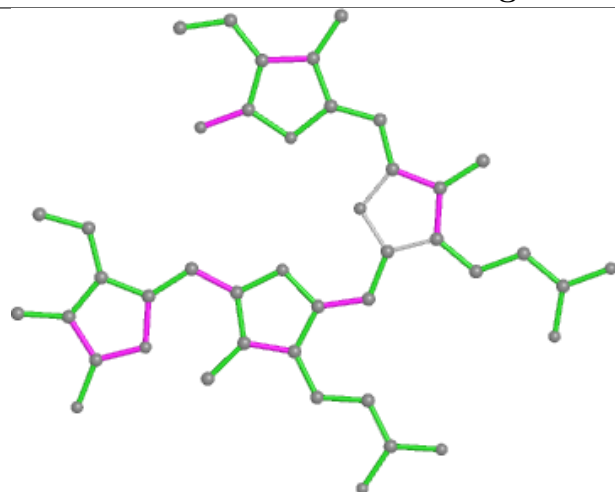
Torsions



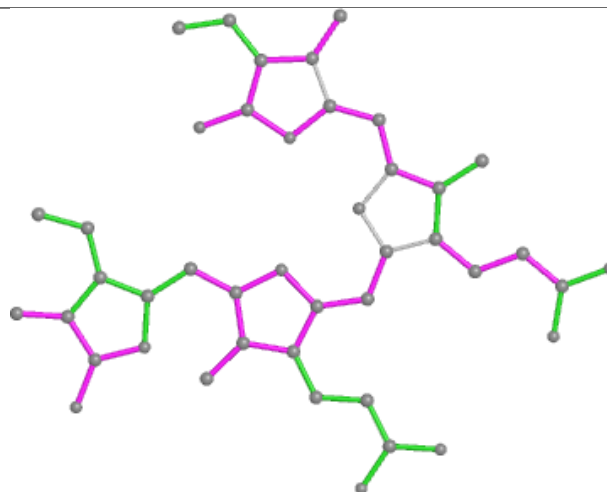
Rings



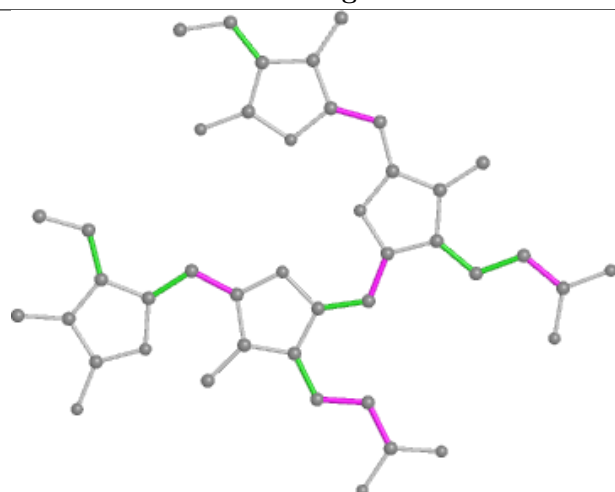
Ligand PEB MD 203



Bond lengths



Bond angles

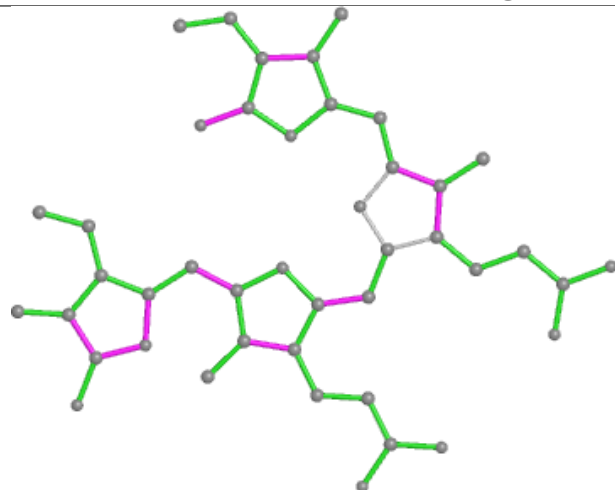


Torsions

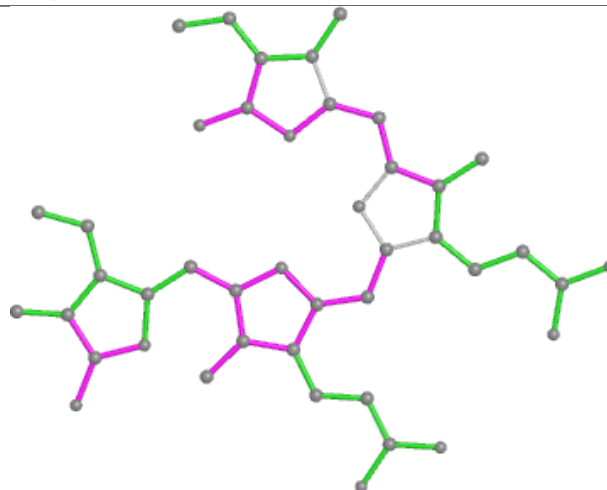


Rings

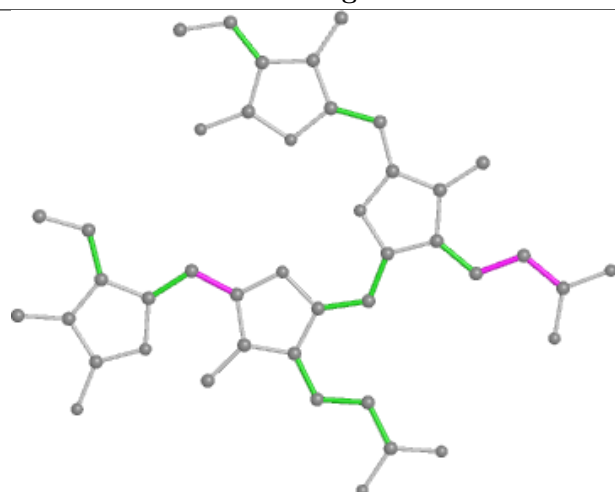
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Bond lengths



Bond angles

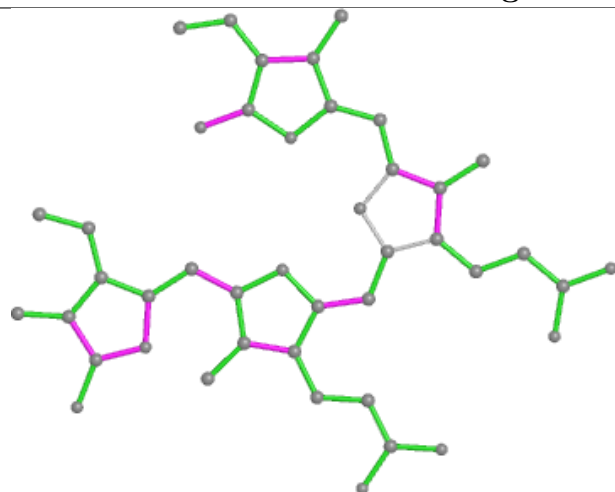


Torsions

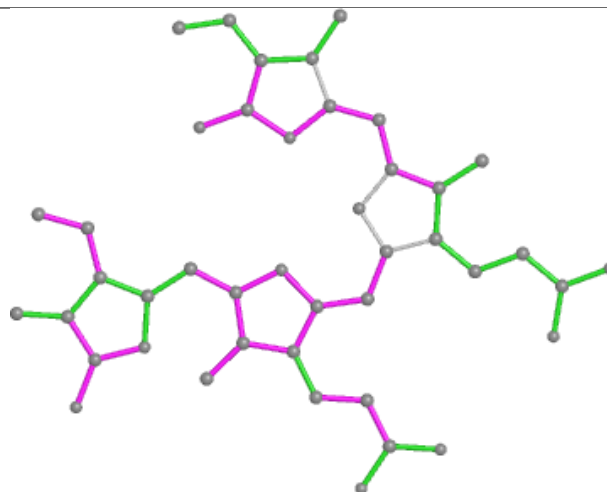


Rings

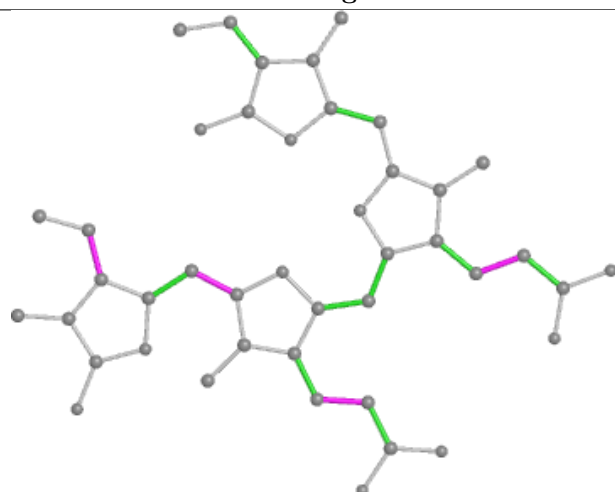
Ligand PEB HG 202



Bond lengths



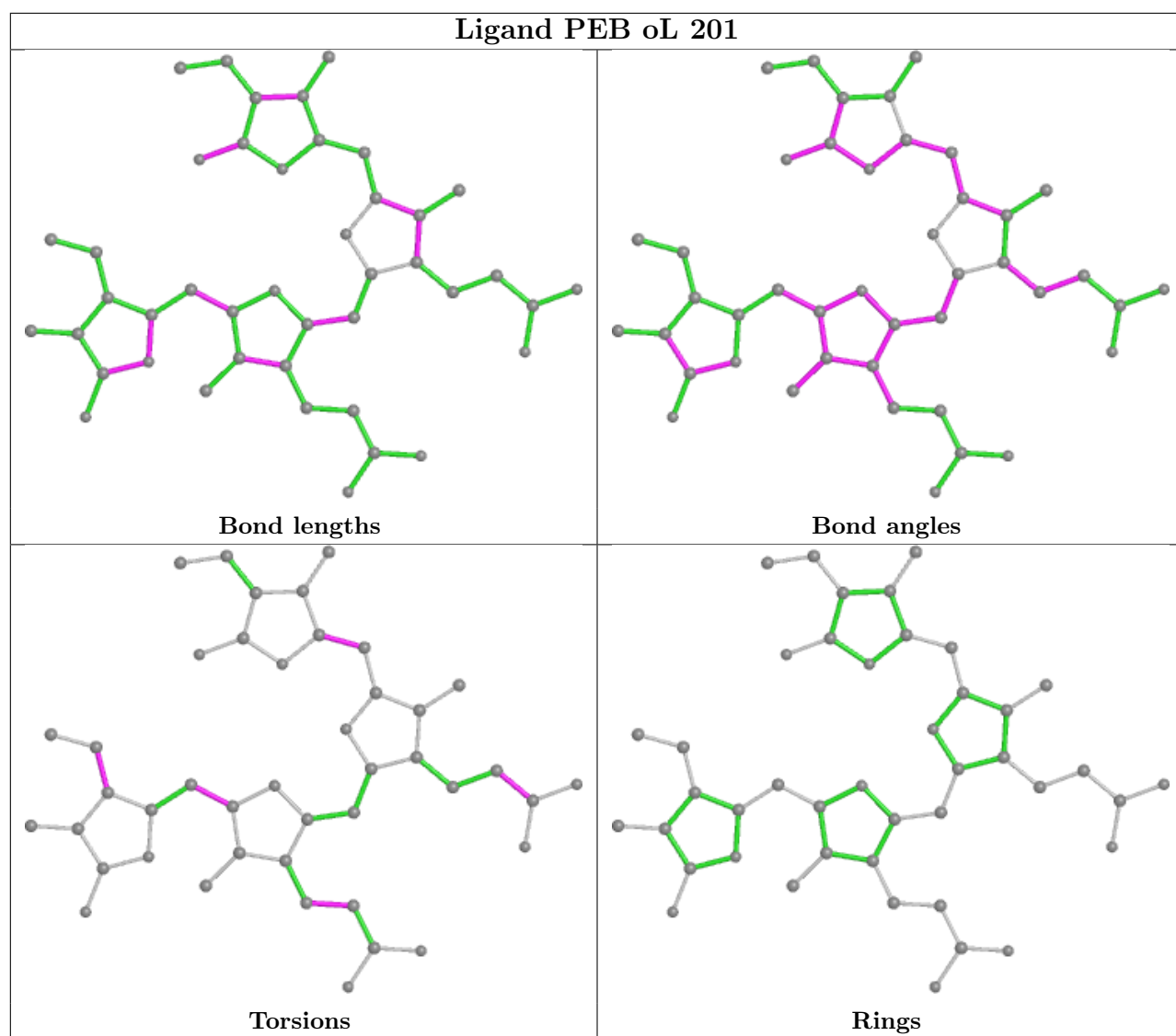
Bond angles

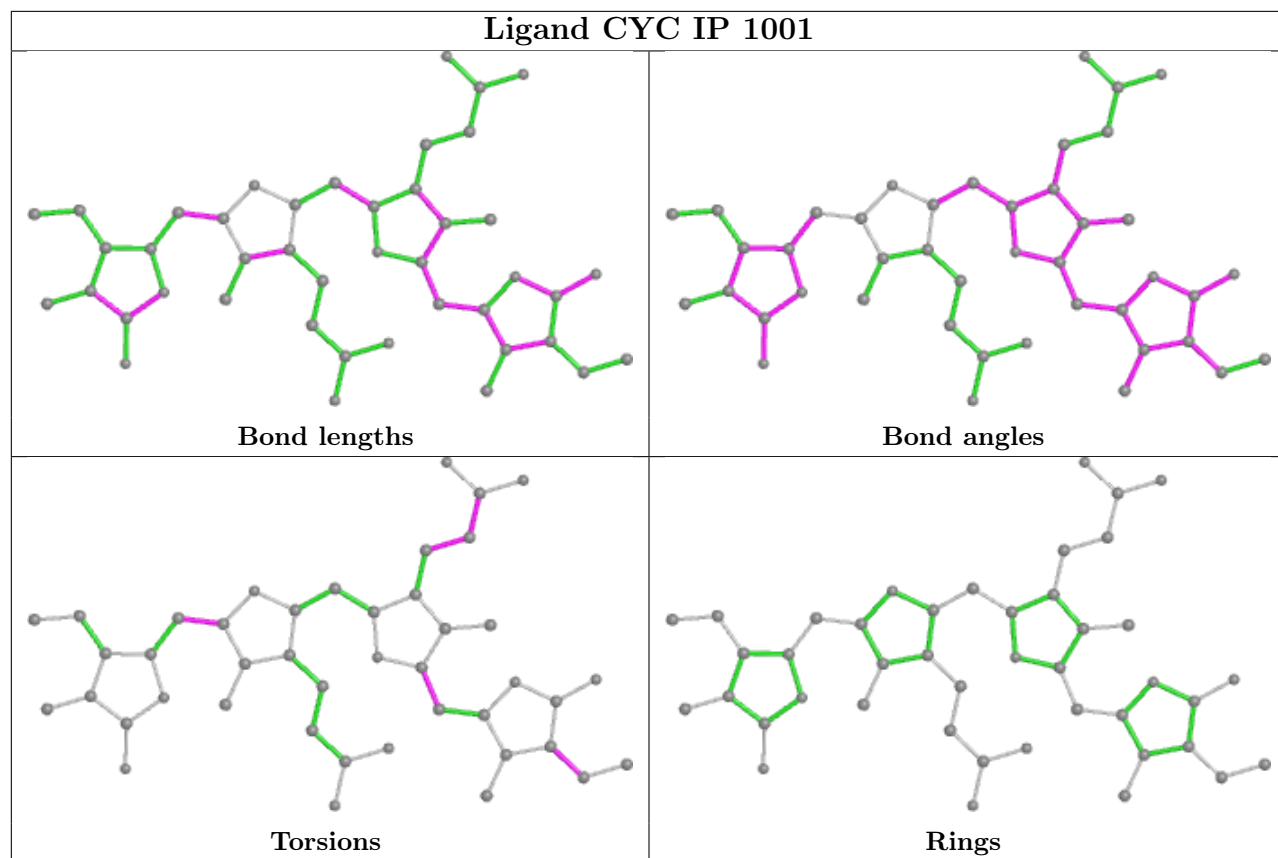


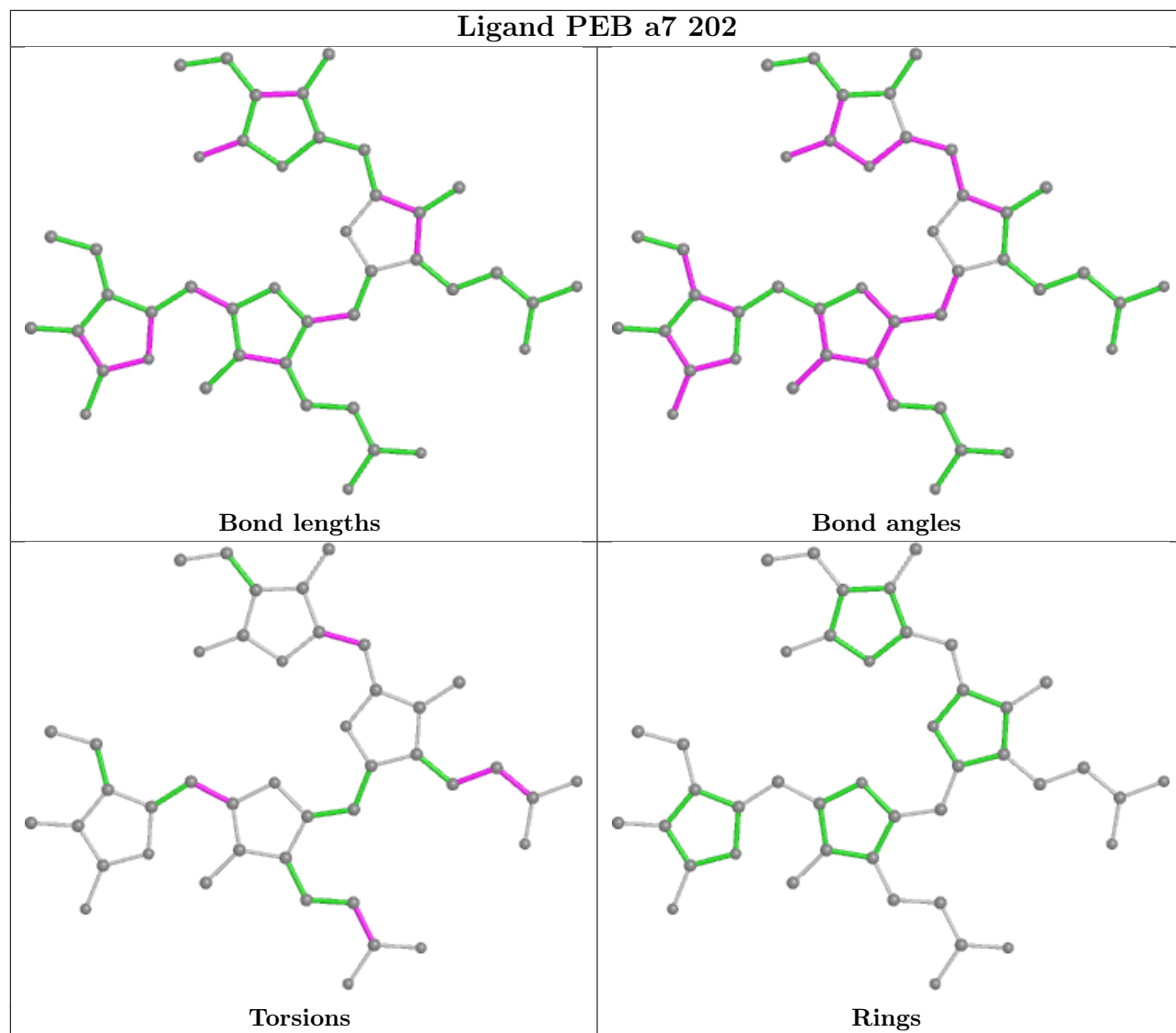
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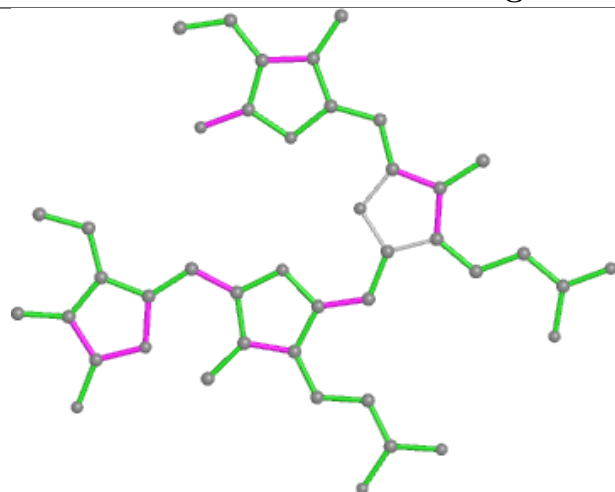
Rings



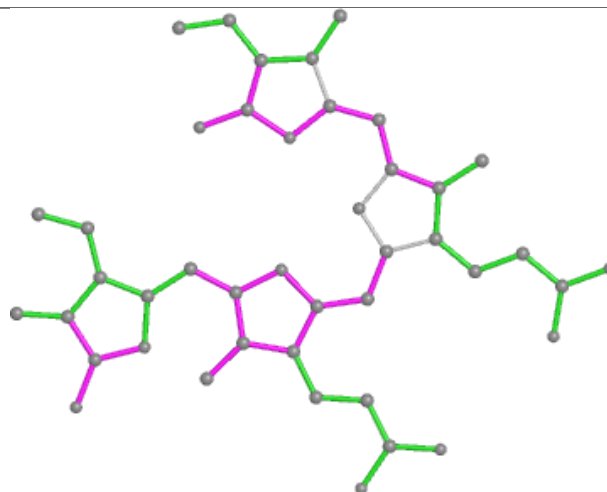




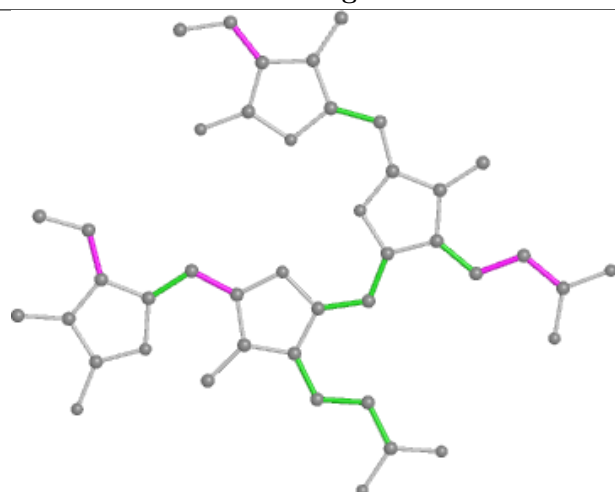
Ligand PEB RL 202



Bond lengths



Bond angles

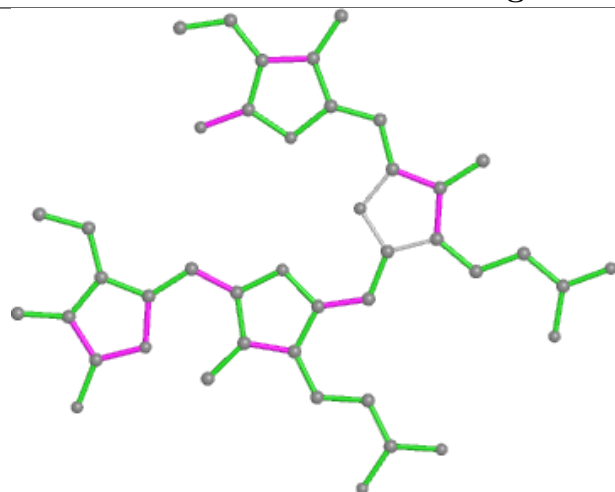


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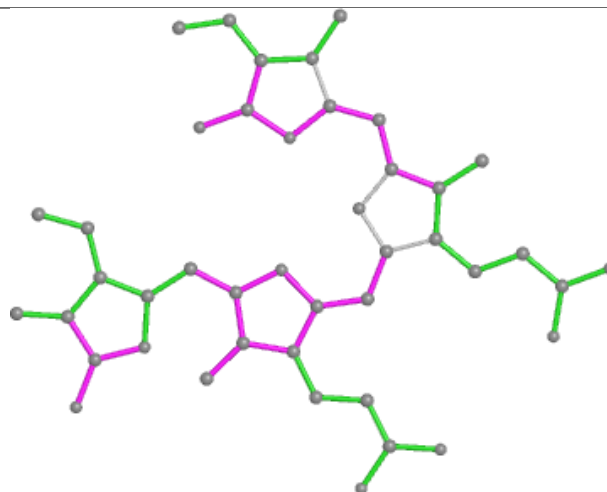


Rings

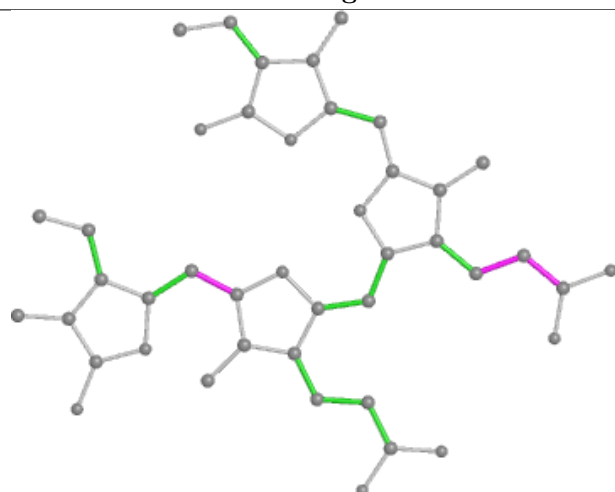
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Bond lengths



Bond angles

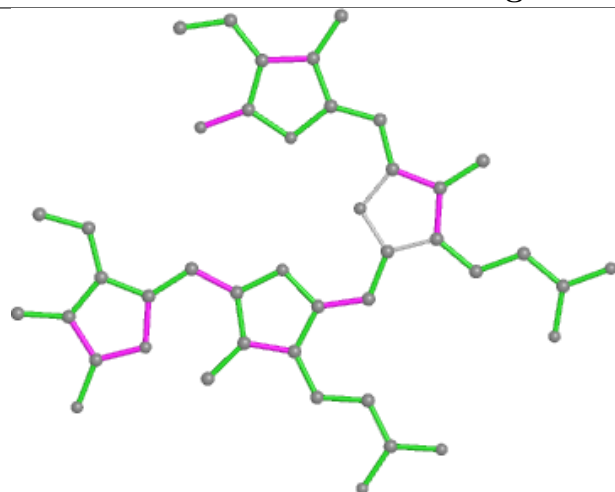


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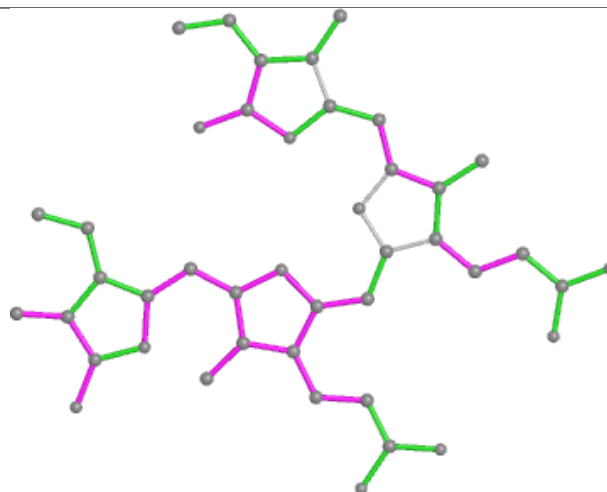


Rings

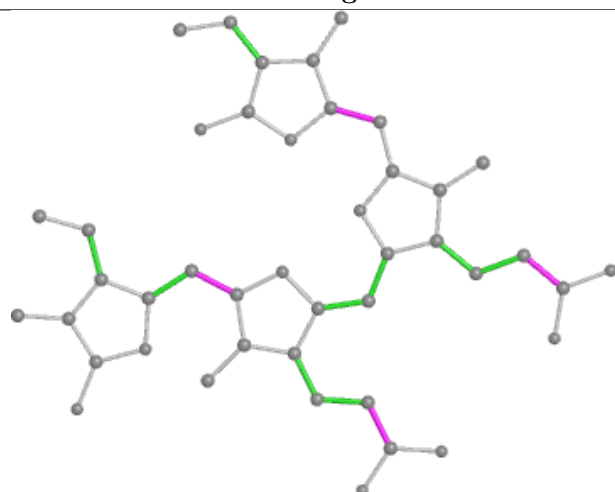
Ligand PEB SK 201



Bond lengths



Bond angles

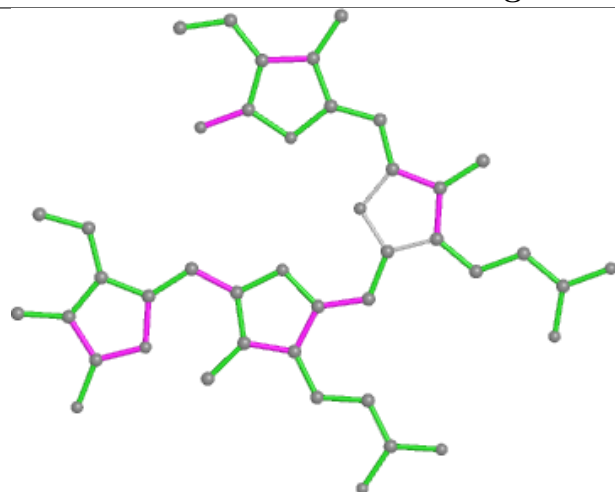


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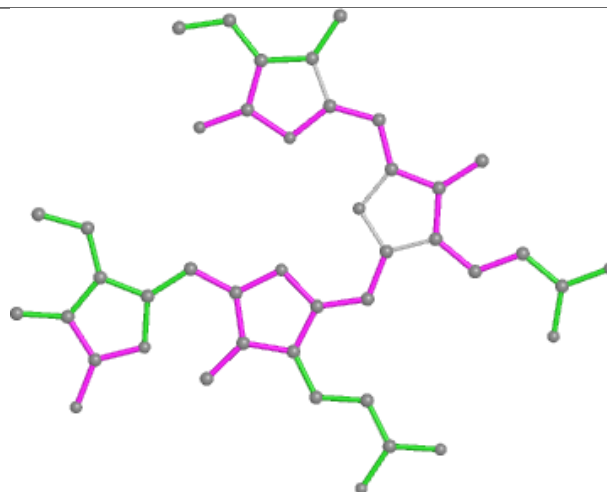


Rings

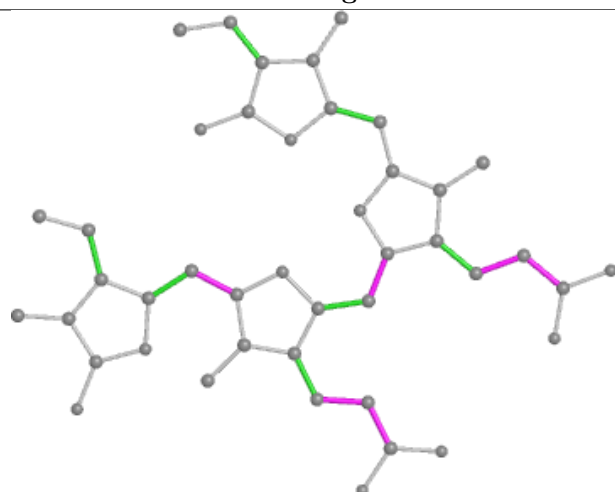
Ligand PEB CB 202



Bond lengths



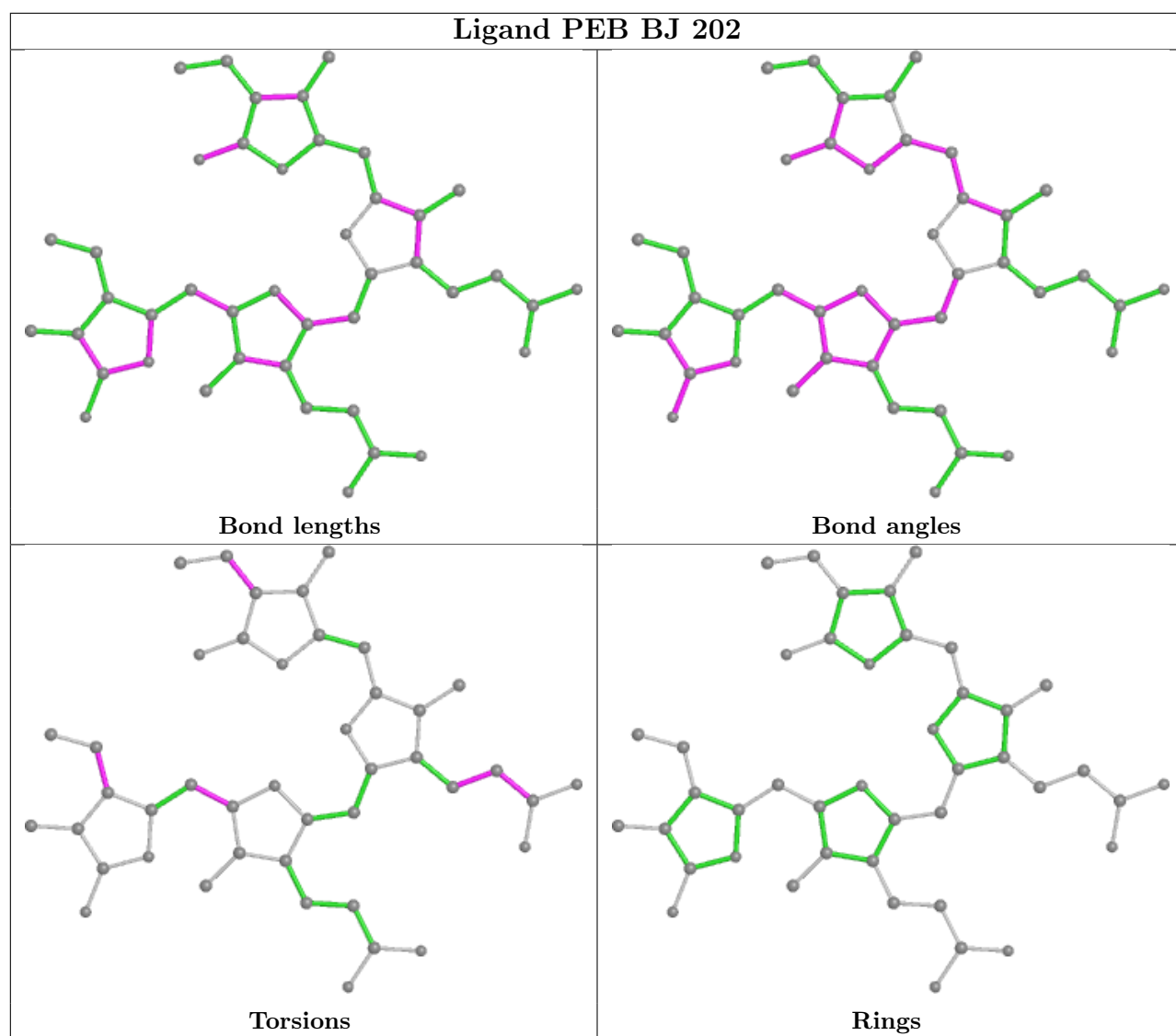
Bond angles



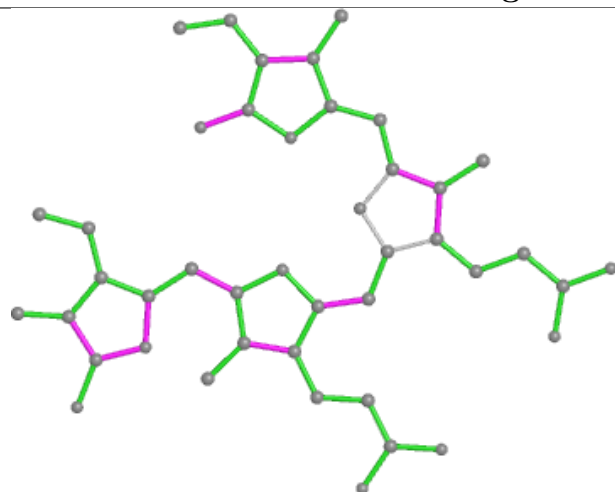
Torsions



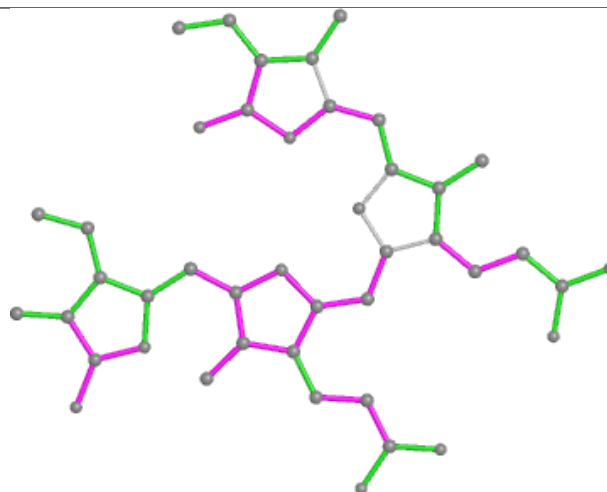
Rings



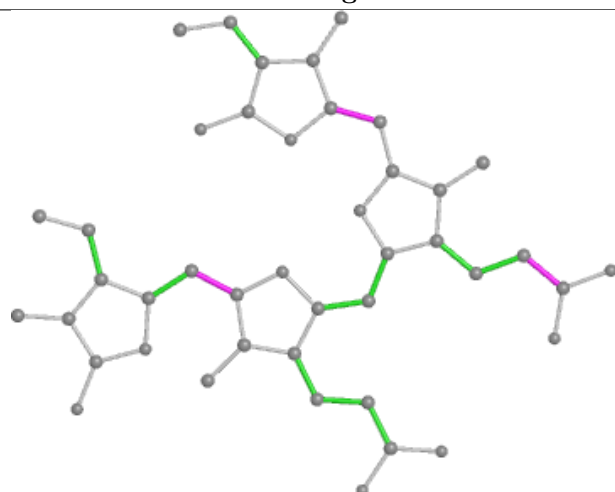
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Bond lengths



Bond angles

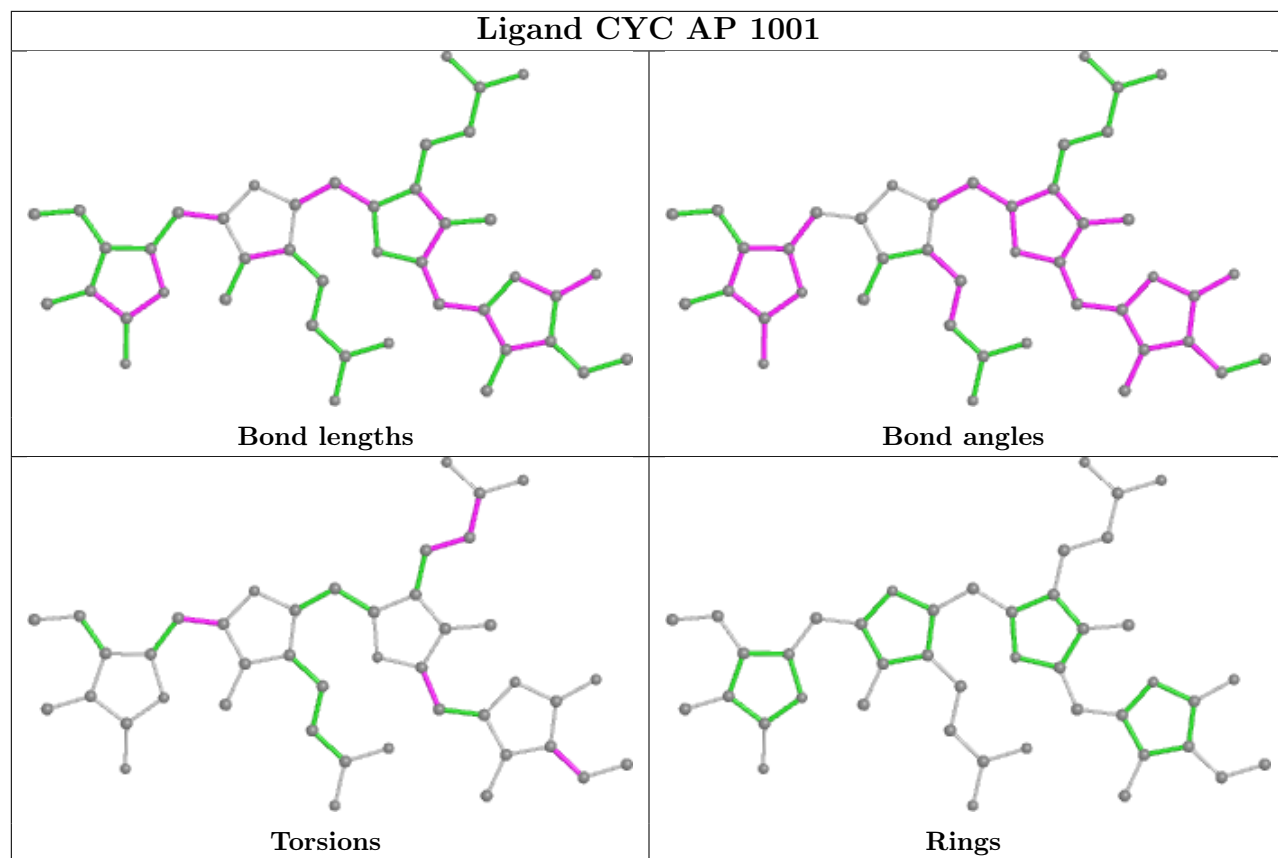


Torsions

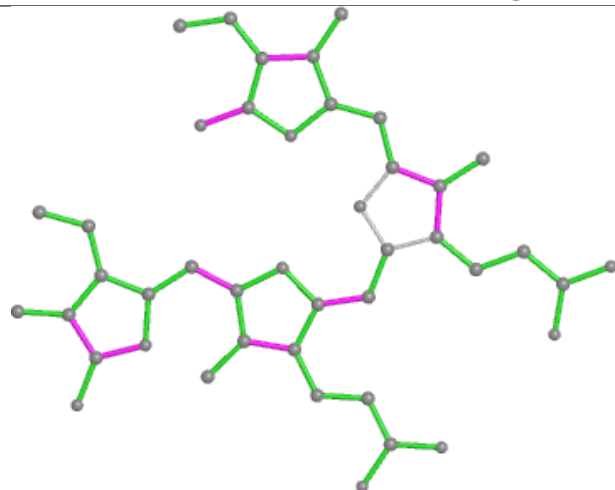


Rings

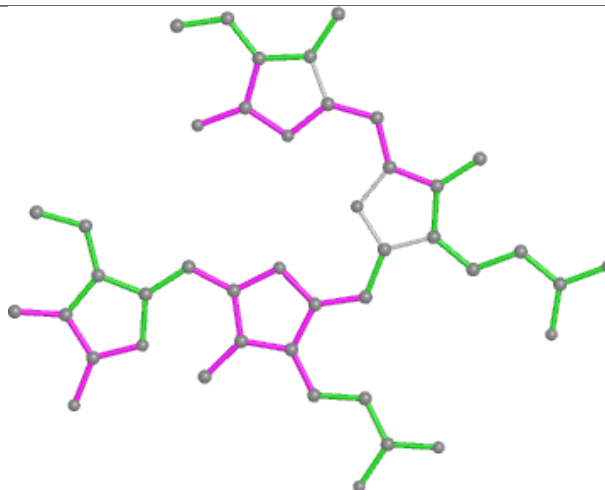
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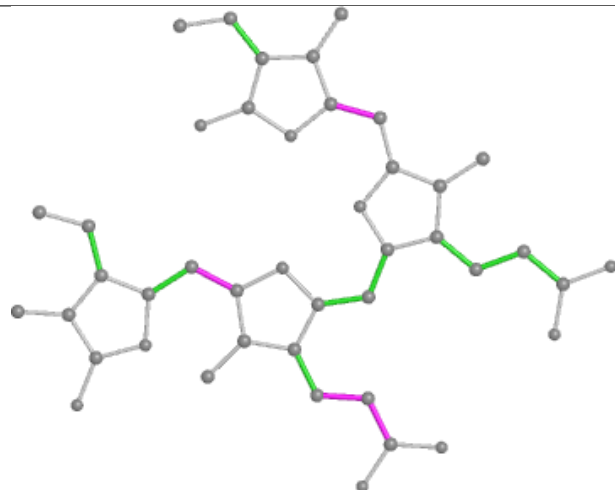
Ligand PEB eK 203



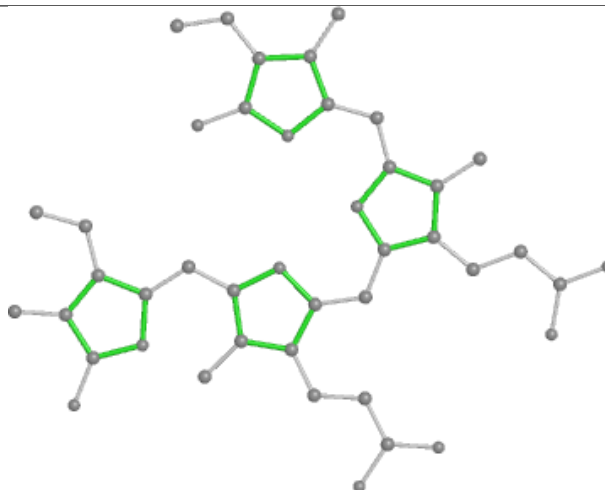
Bond lengths



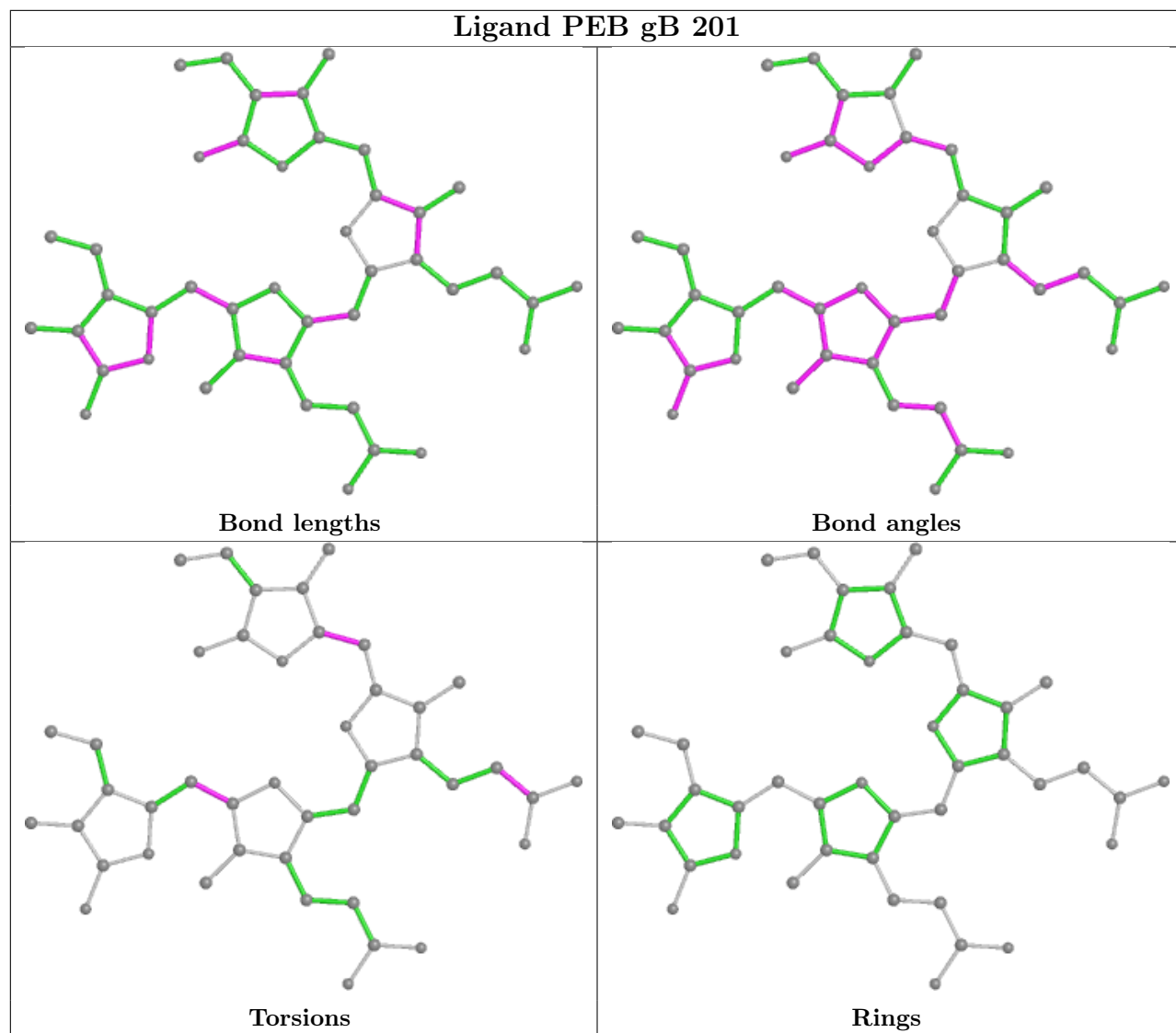
Bond angles

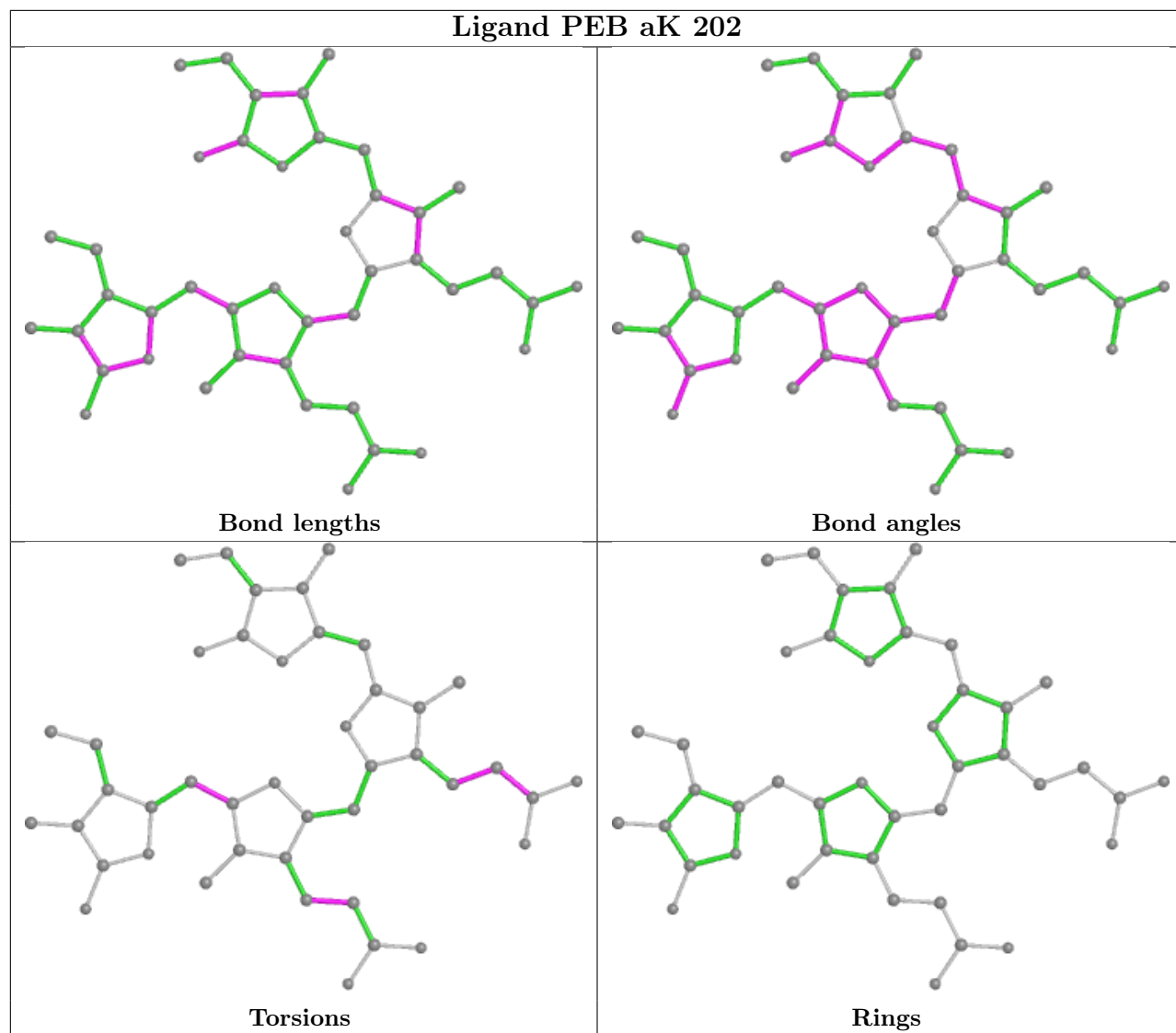


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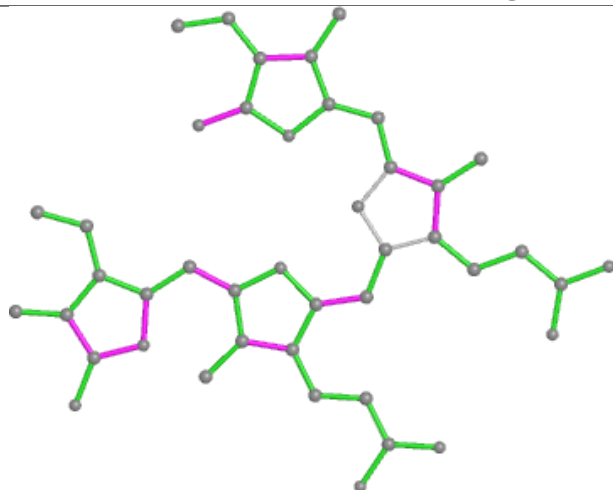


Rings

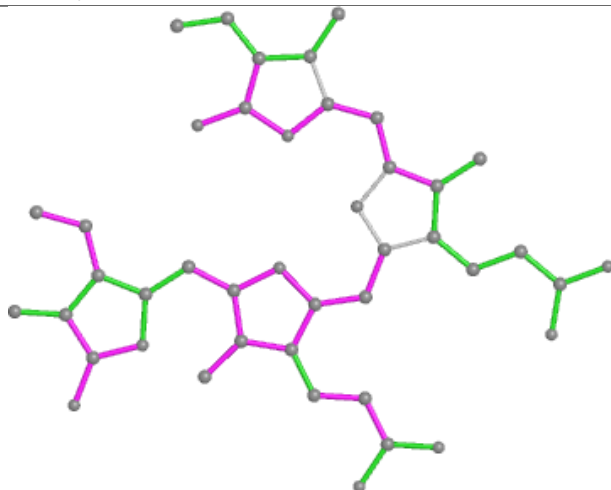




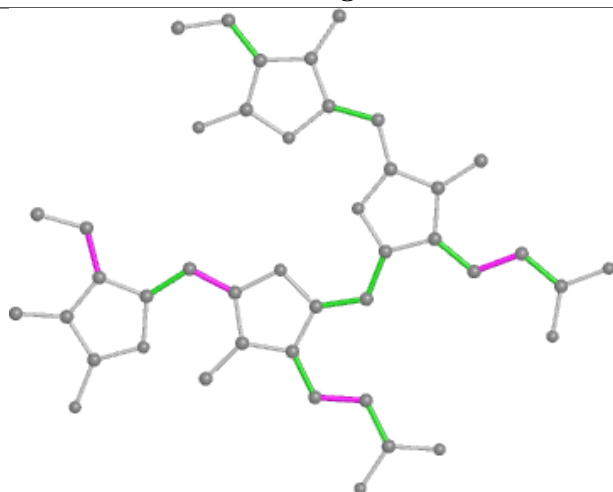
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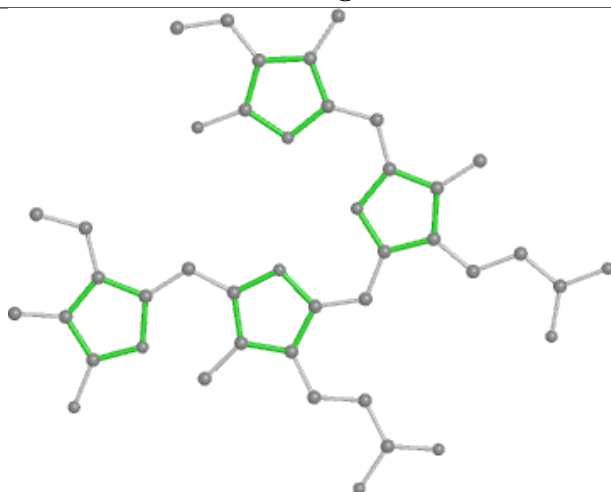
Bond lengths



Bond angles

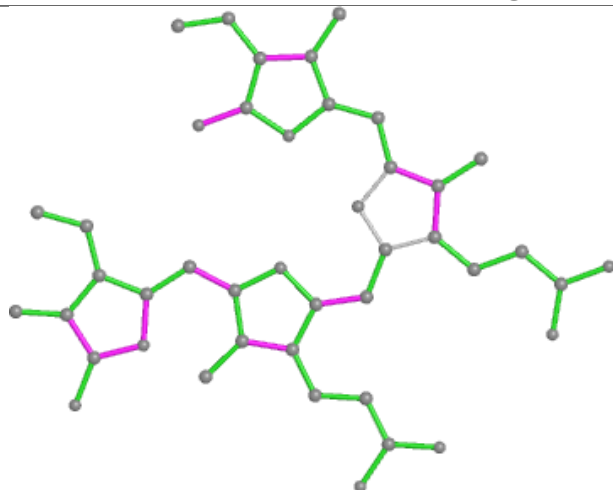


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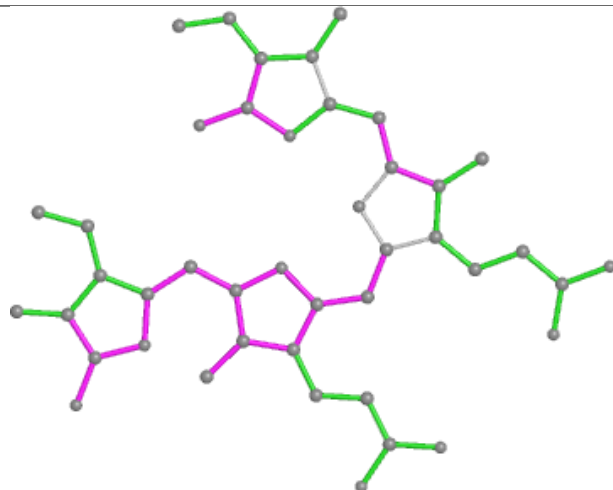


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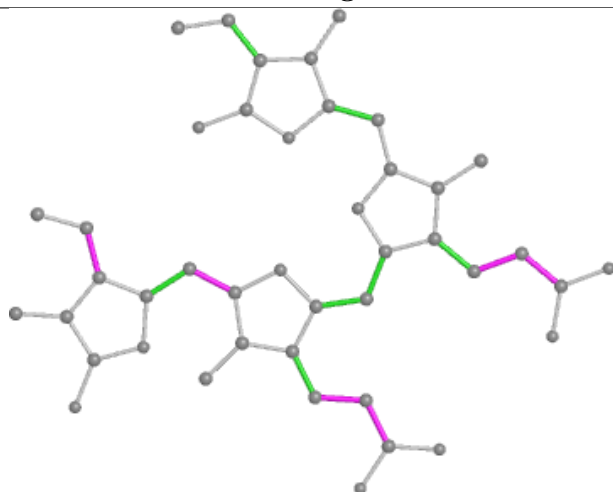
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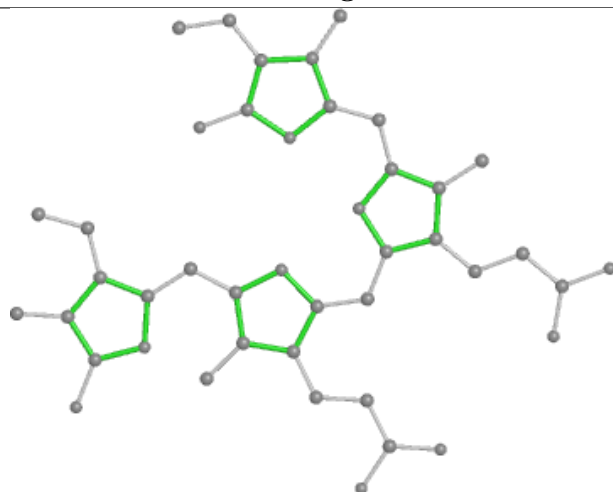
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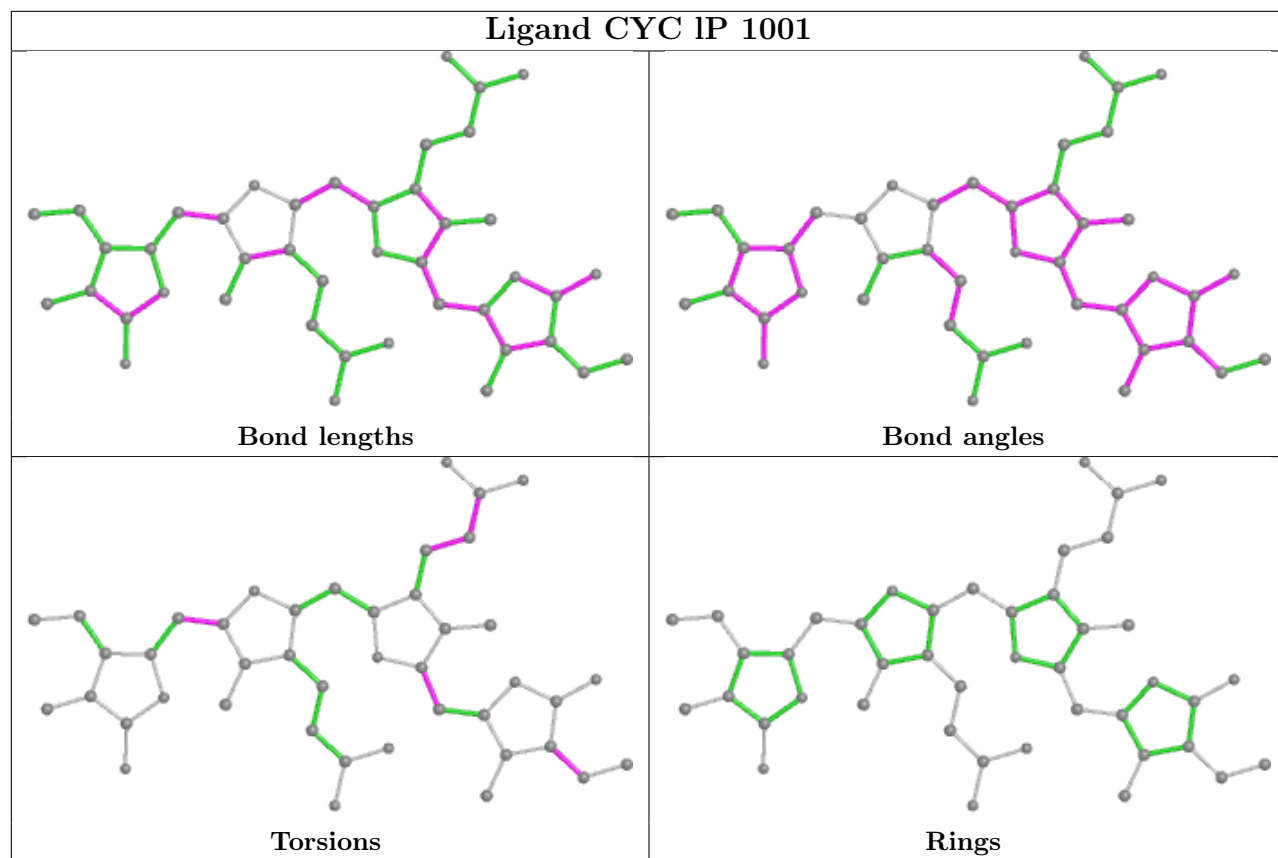
Bond angles



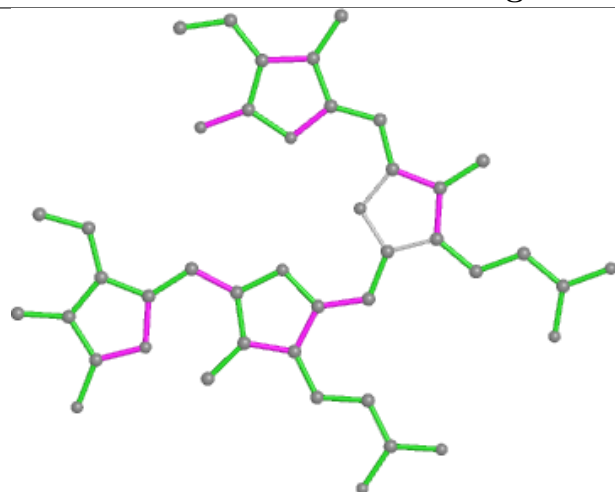
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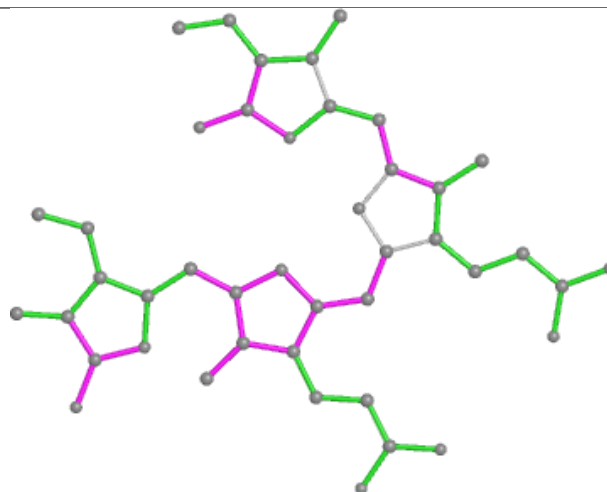
Rings



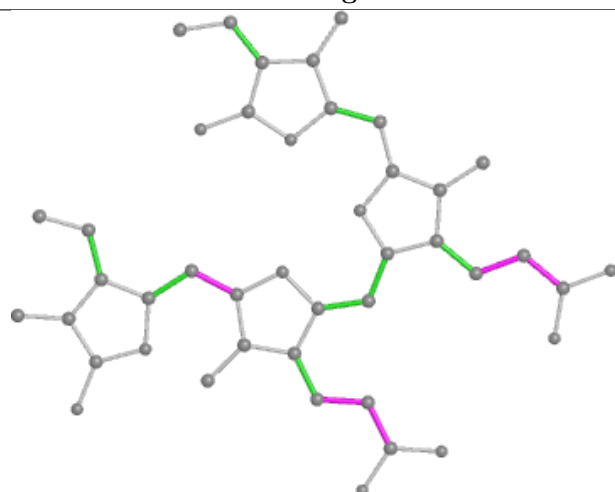
Ligand PEB EE 202



Bond lengths



Bond angles

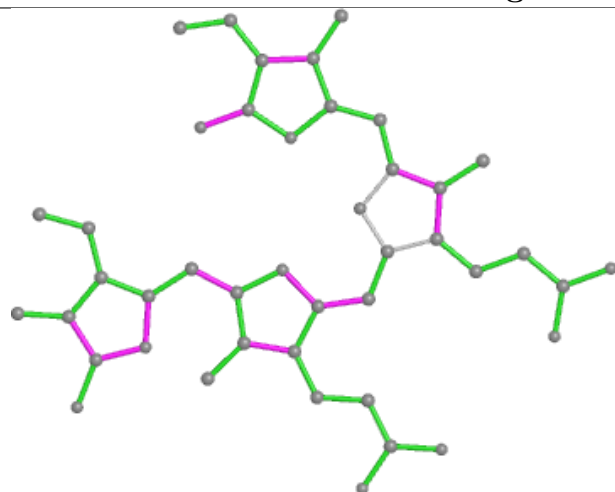


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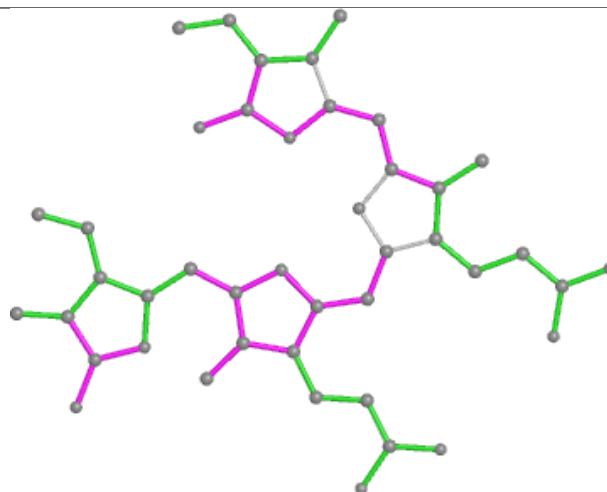


Rings

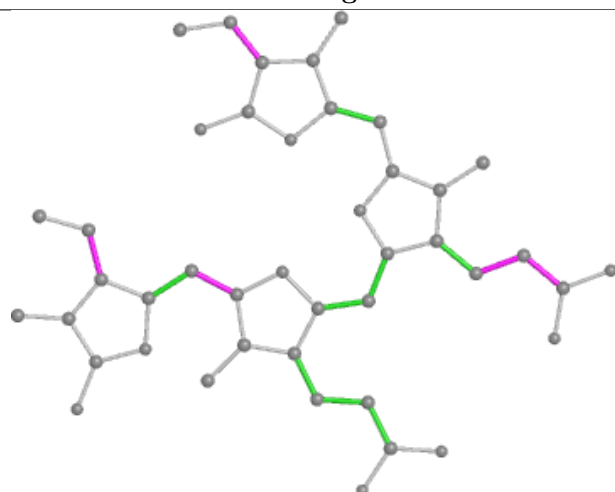
Ligand PEB NJ 202



Bond lengths



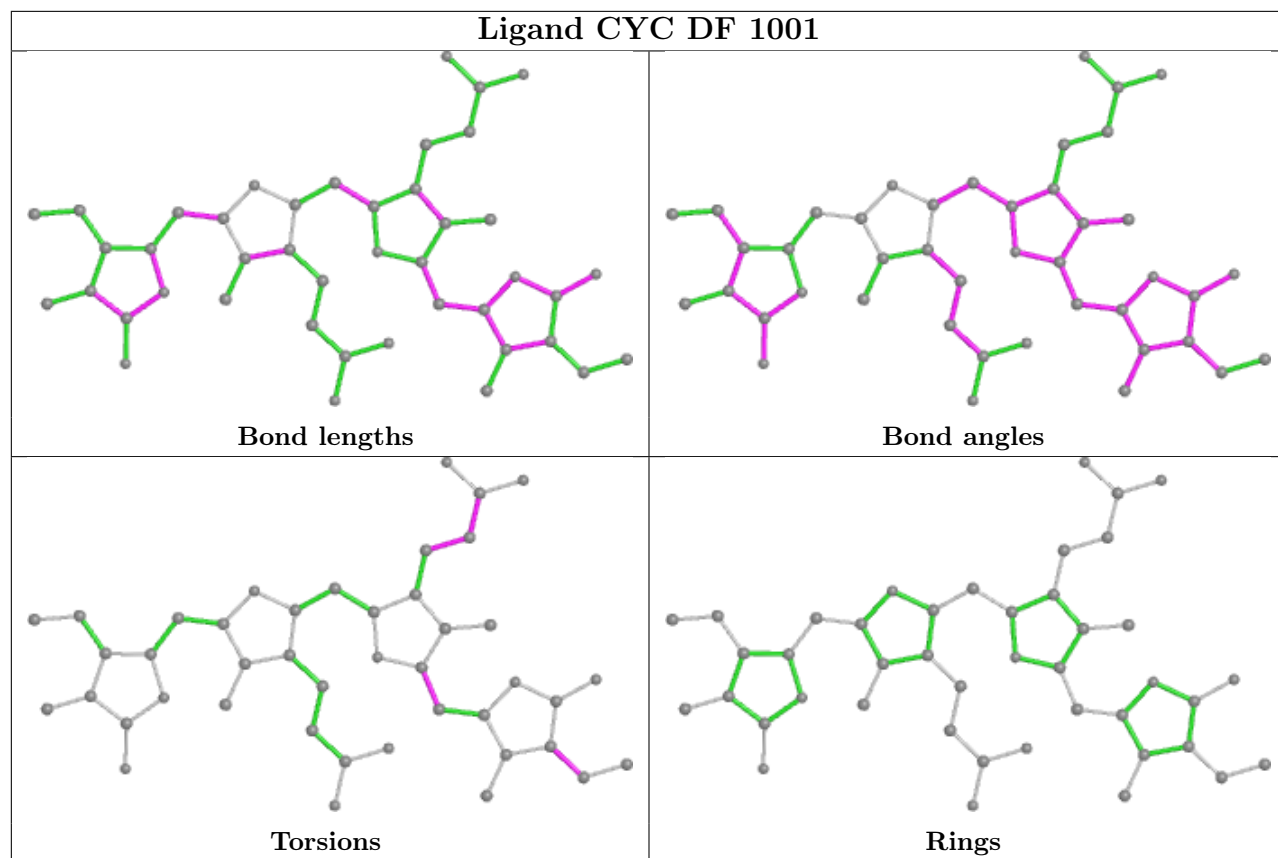
Bond angles

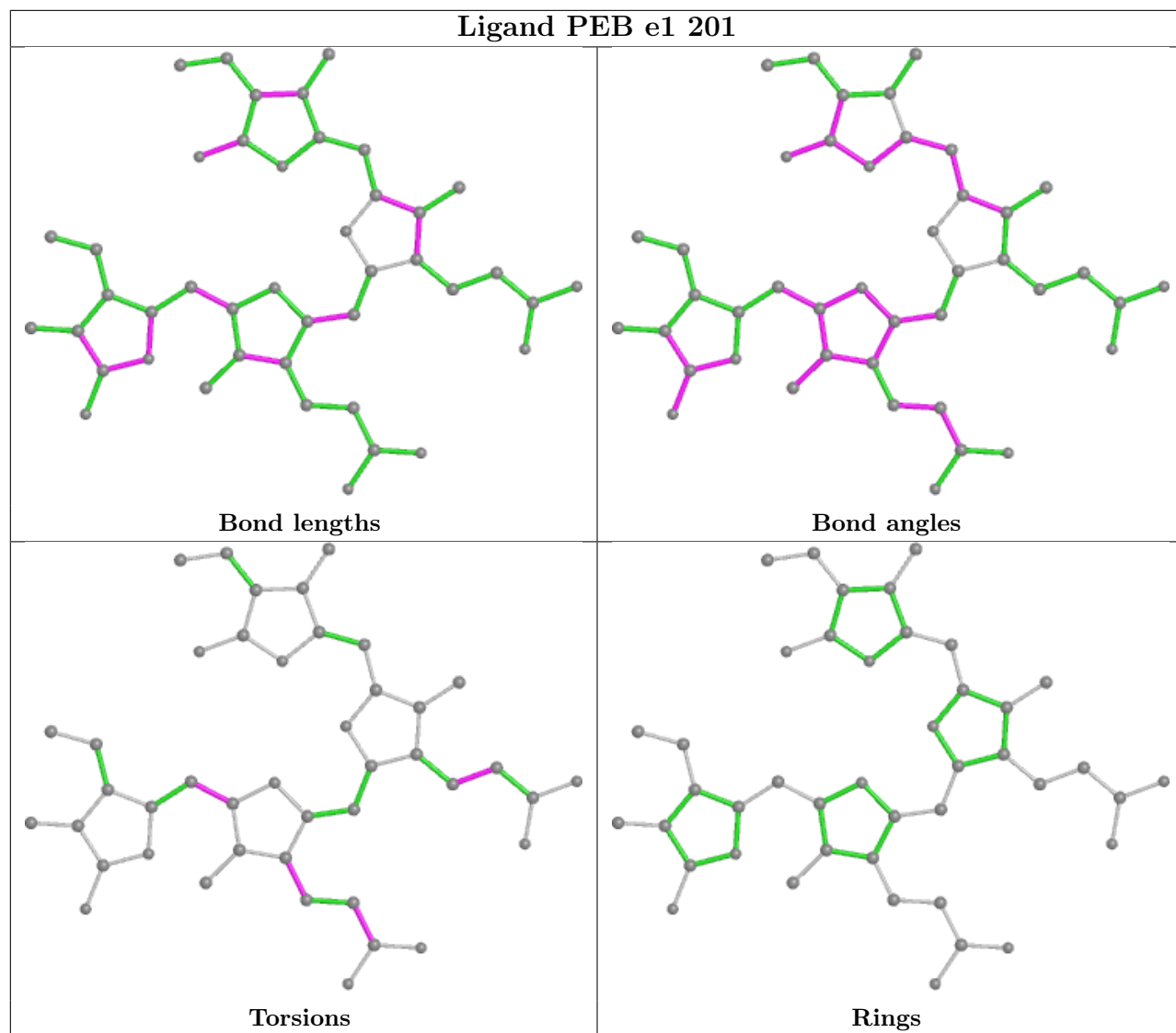


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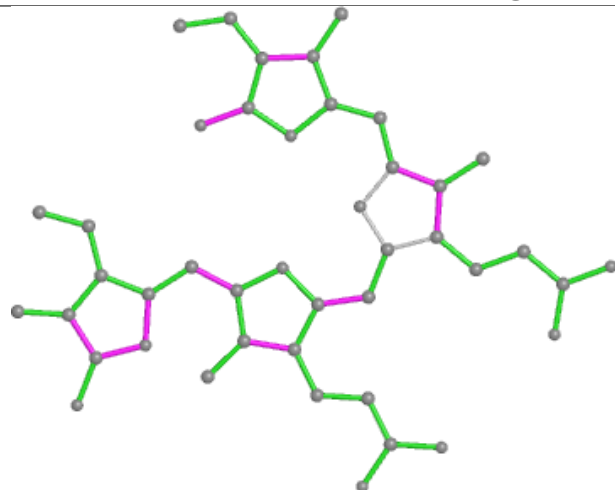


Rings

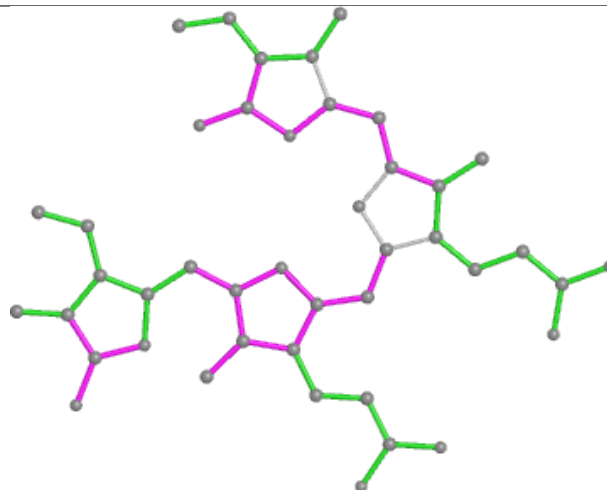




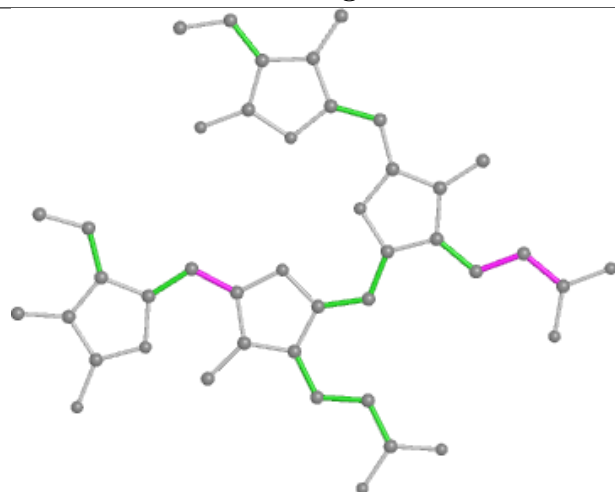
Ligand PEB hB 201



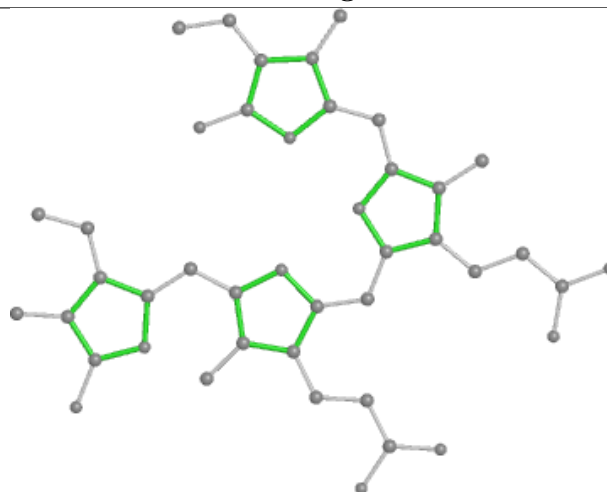
Bond lengths



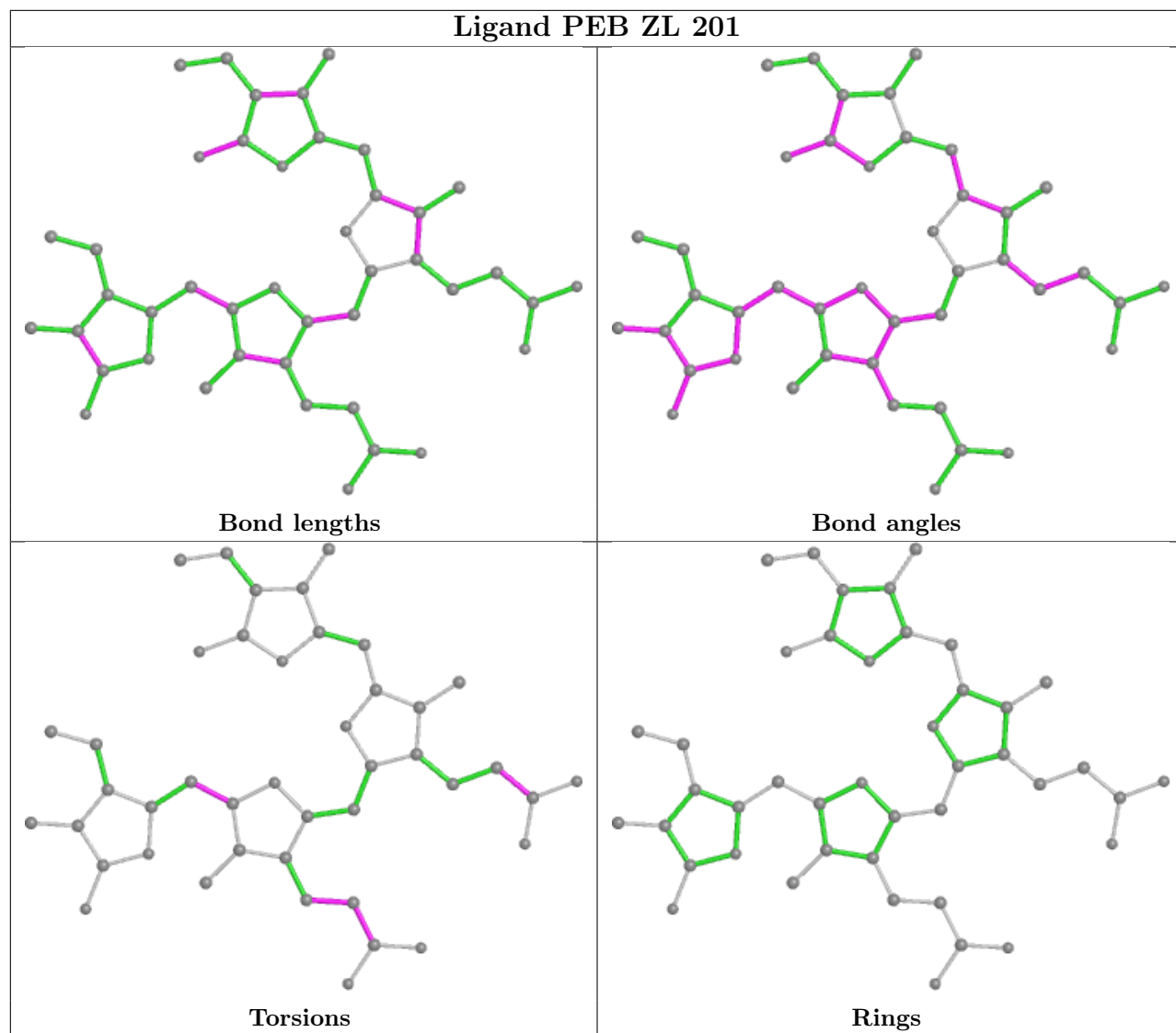
Bond angles

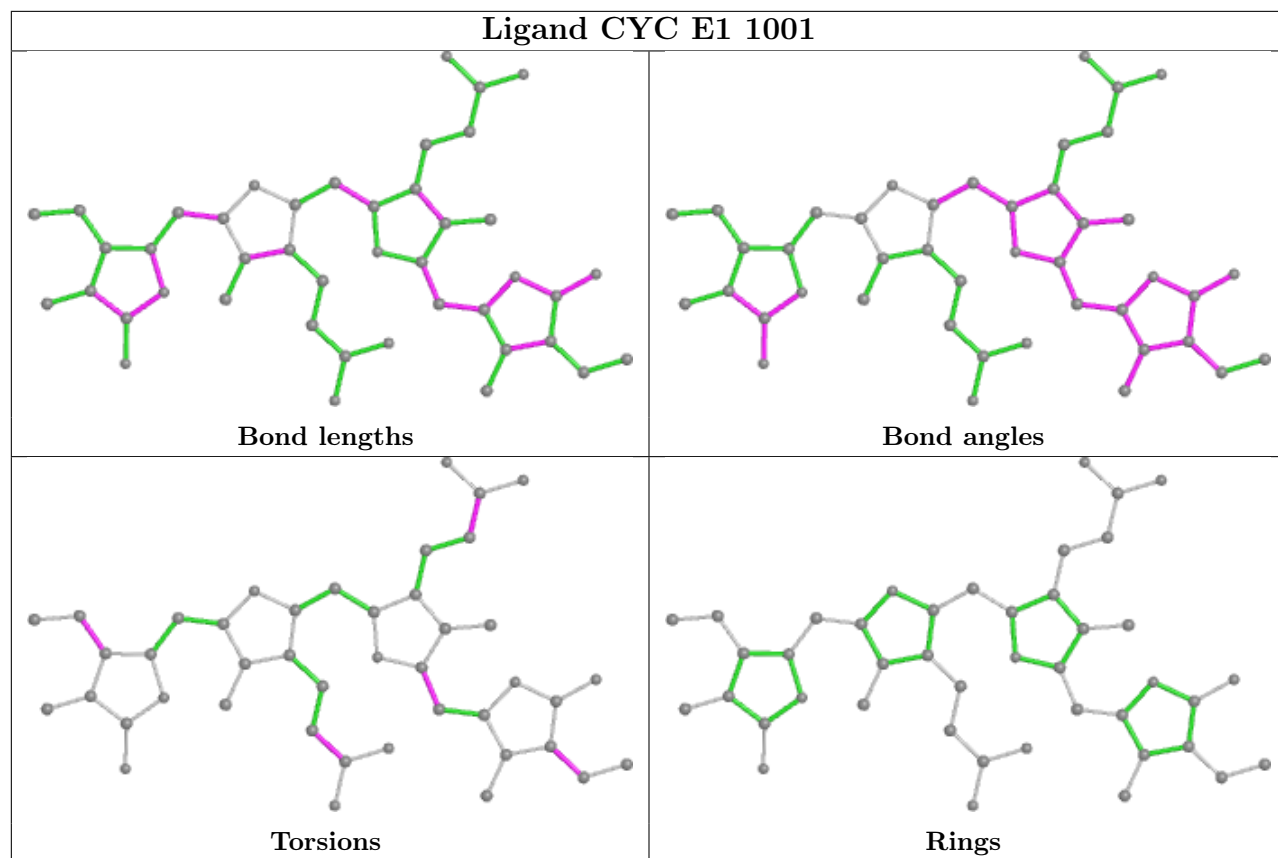


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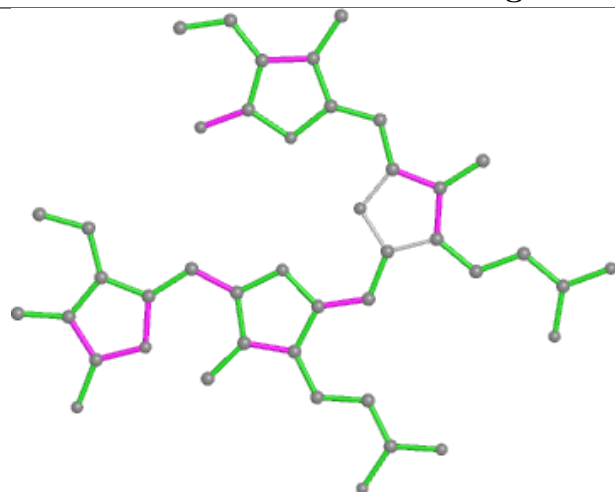


Rings

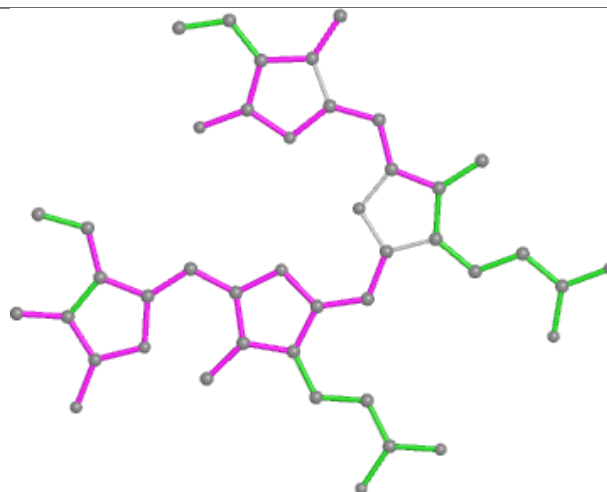




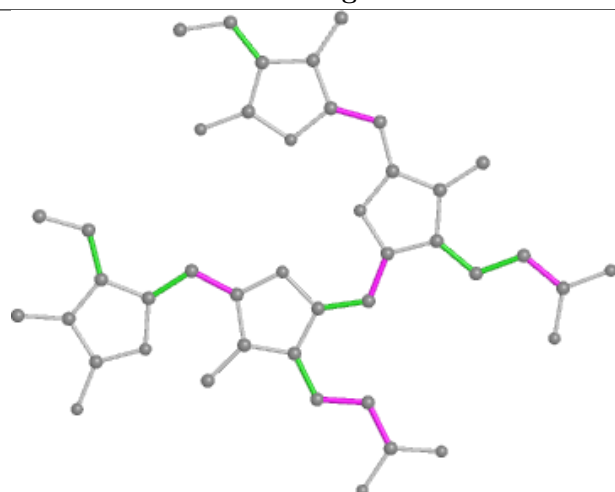
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Bond lengths



Bond angles

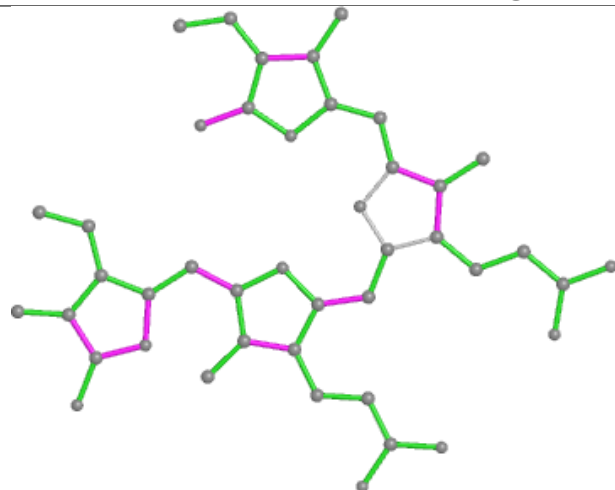


Torsions

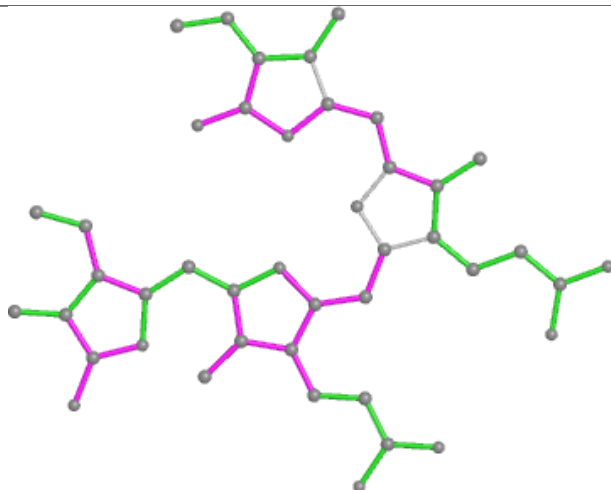


Rings

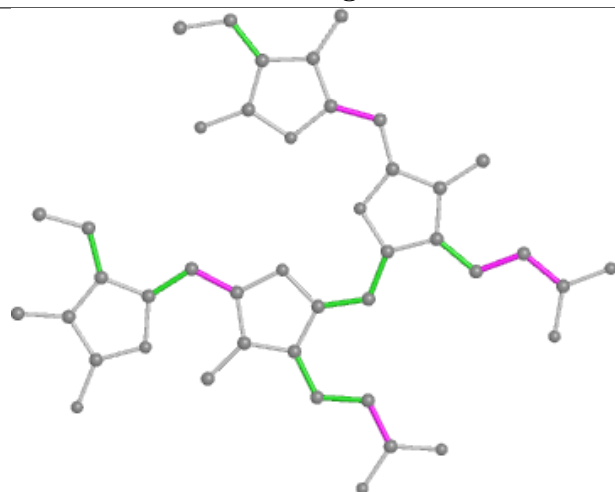
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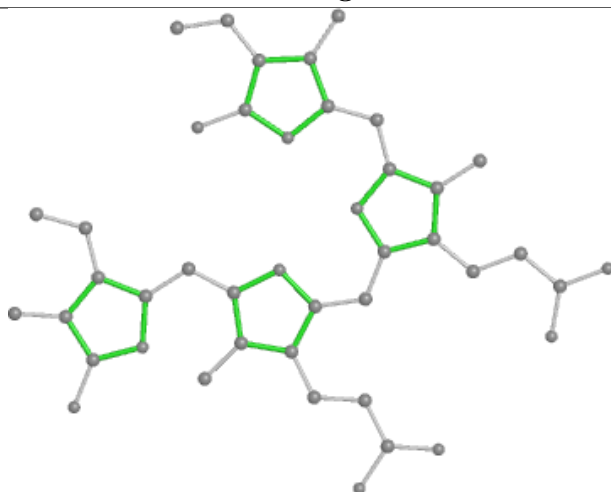
Bond lengths



Bond angles

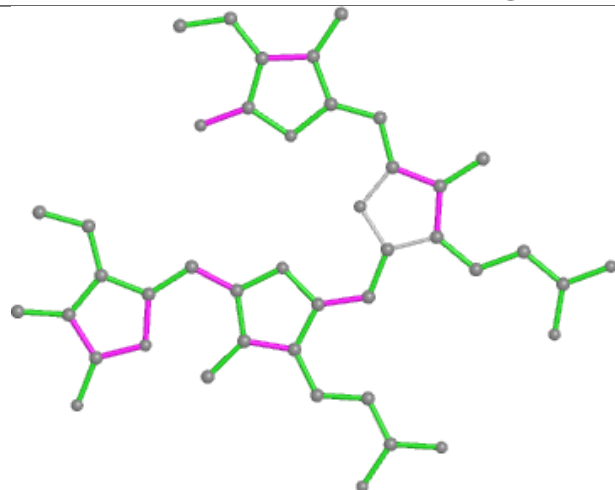


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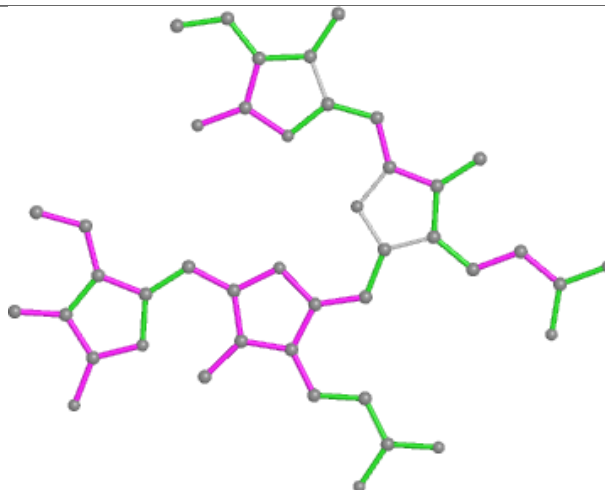


Rings

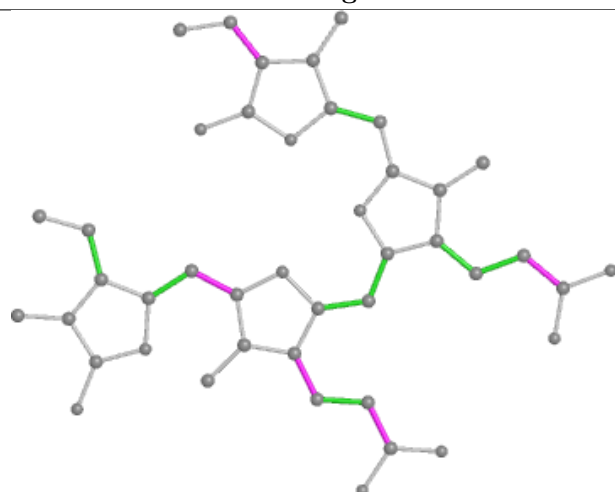
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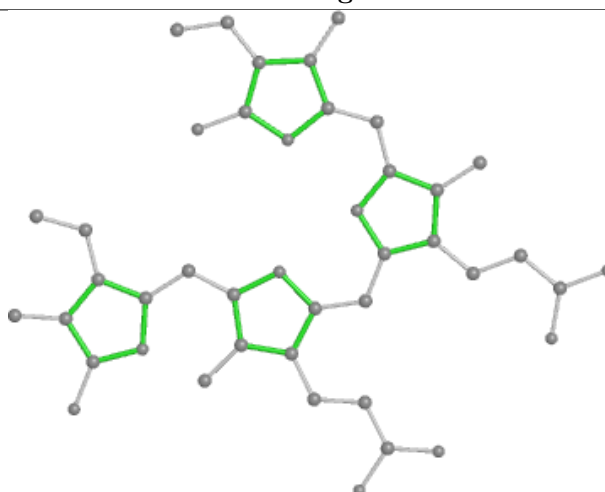
Bond lengths



Bond angles

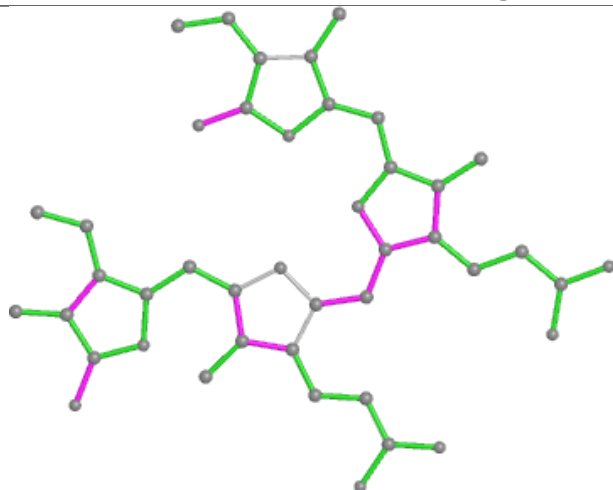


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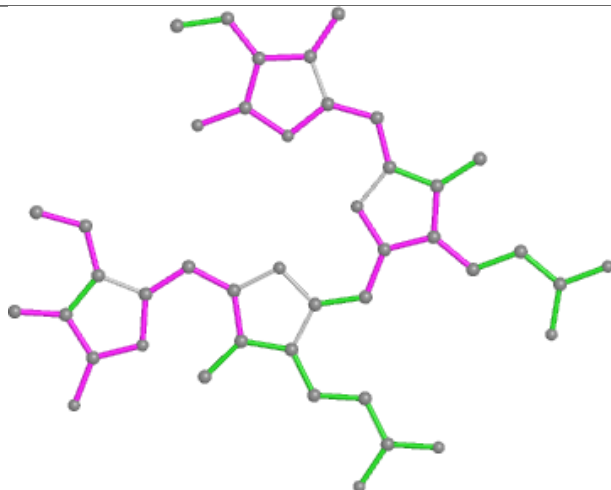


Rings

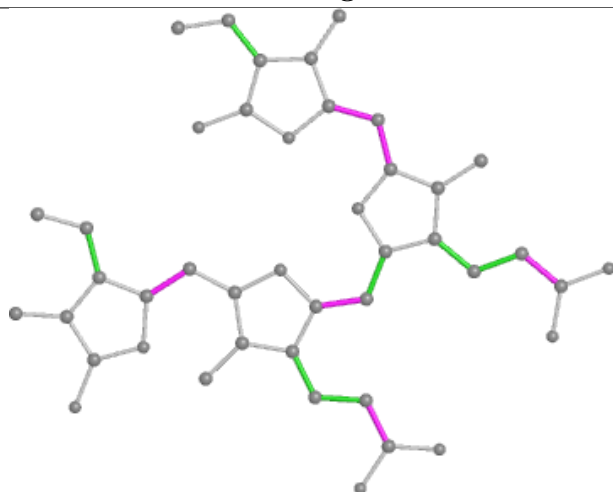
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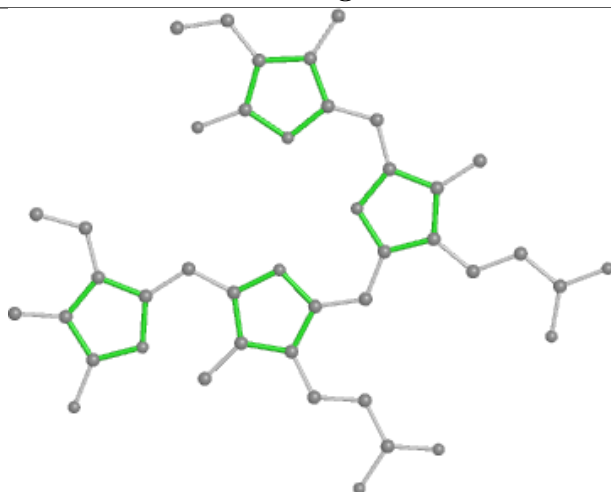
Bond lengths



Bond angles

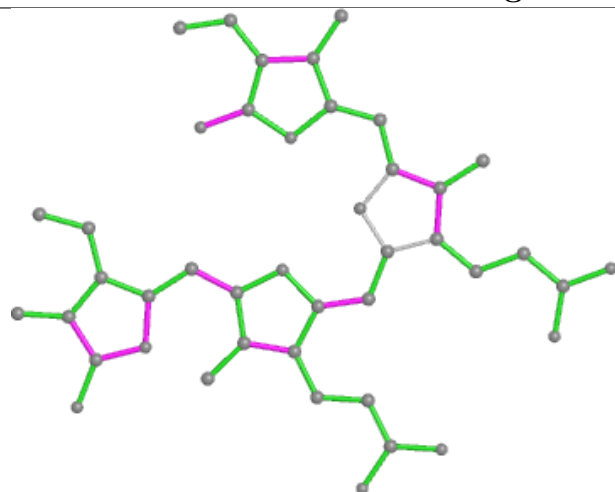


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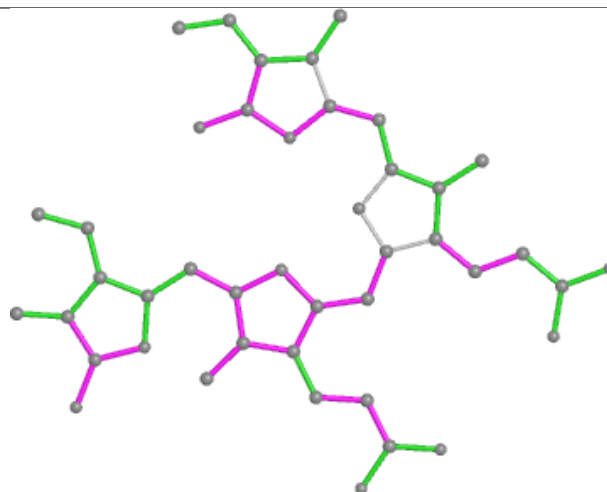


Rings

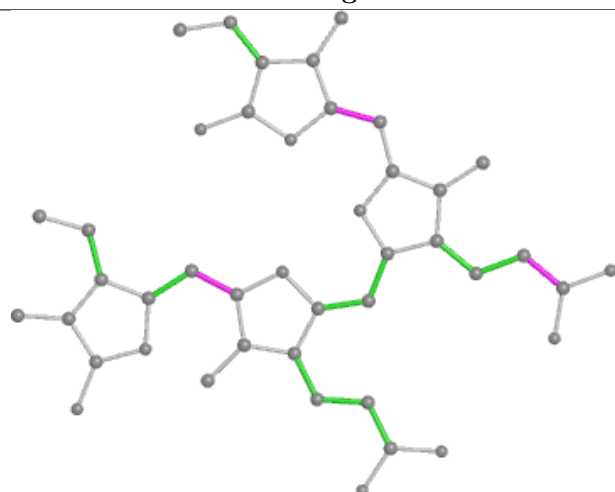
Ligand PEB PB 201



Bond lengths



Bond angles

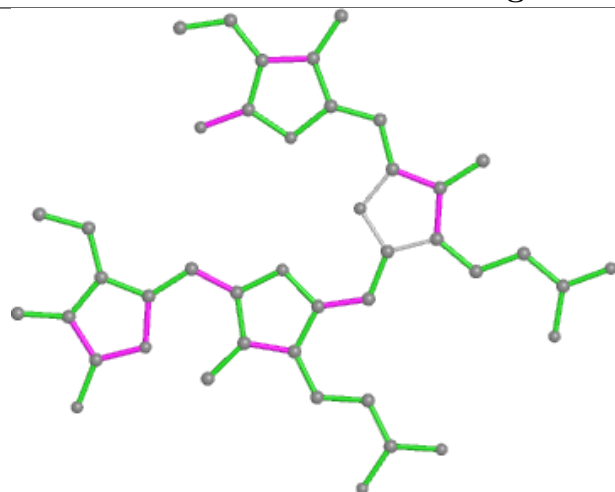


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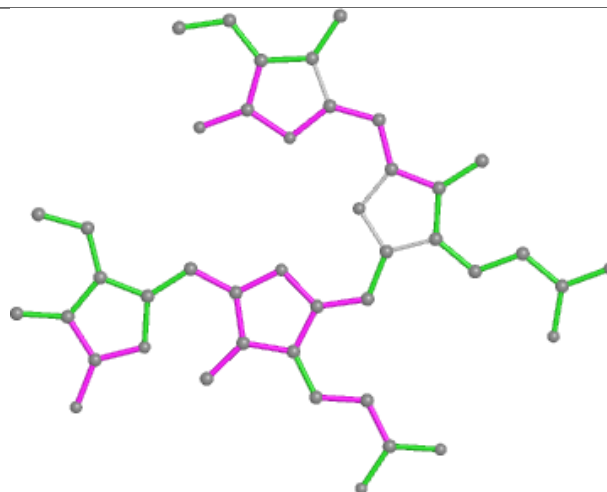


Rings

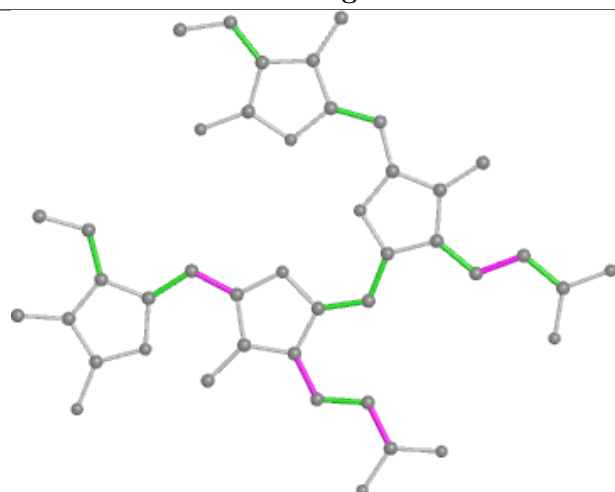
Ligand PEB aK 201



Bond lengths



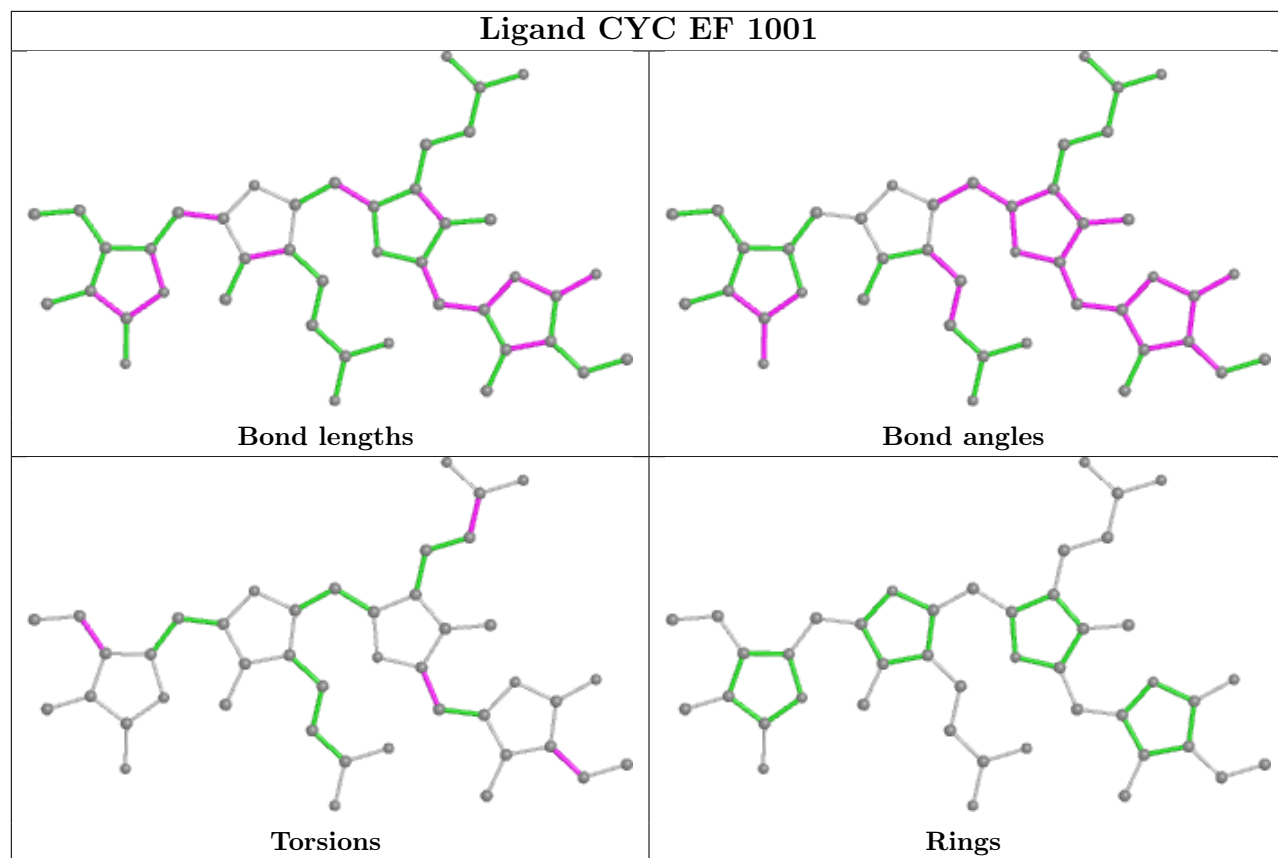
Bond angles

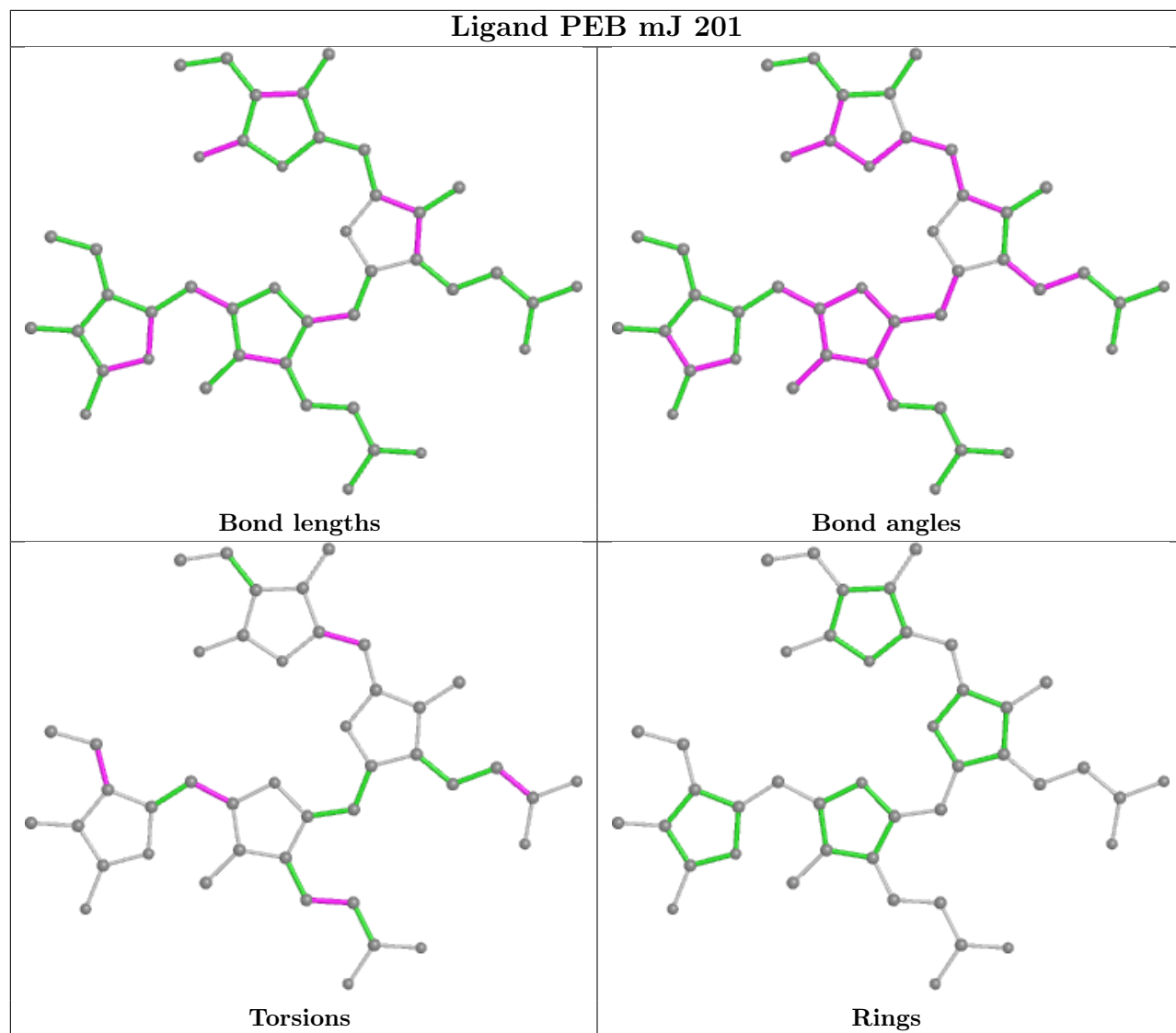


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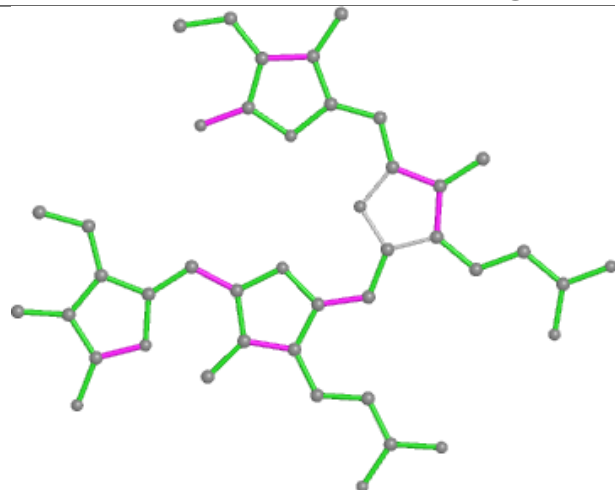


Rings

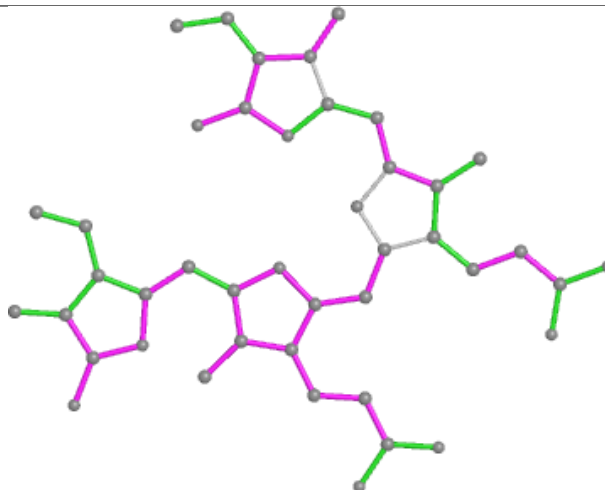




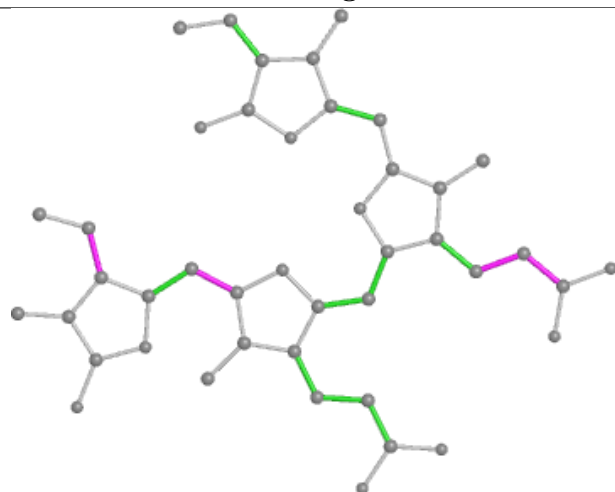
Ligand PEB N2 202



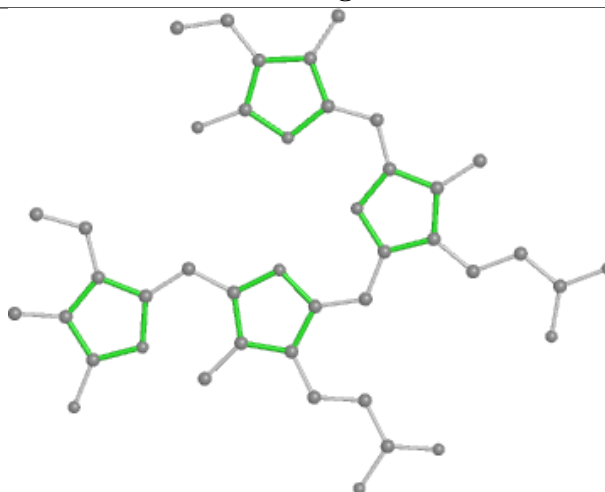
Bond lengths



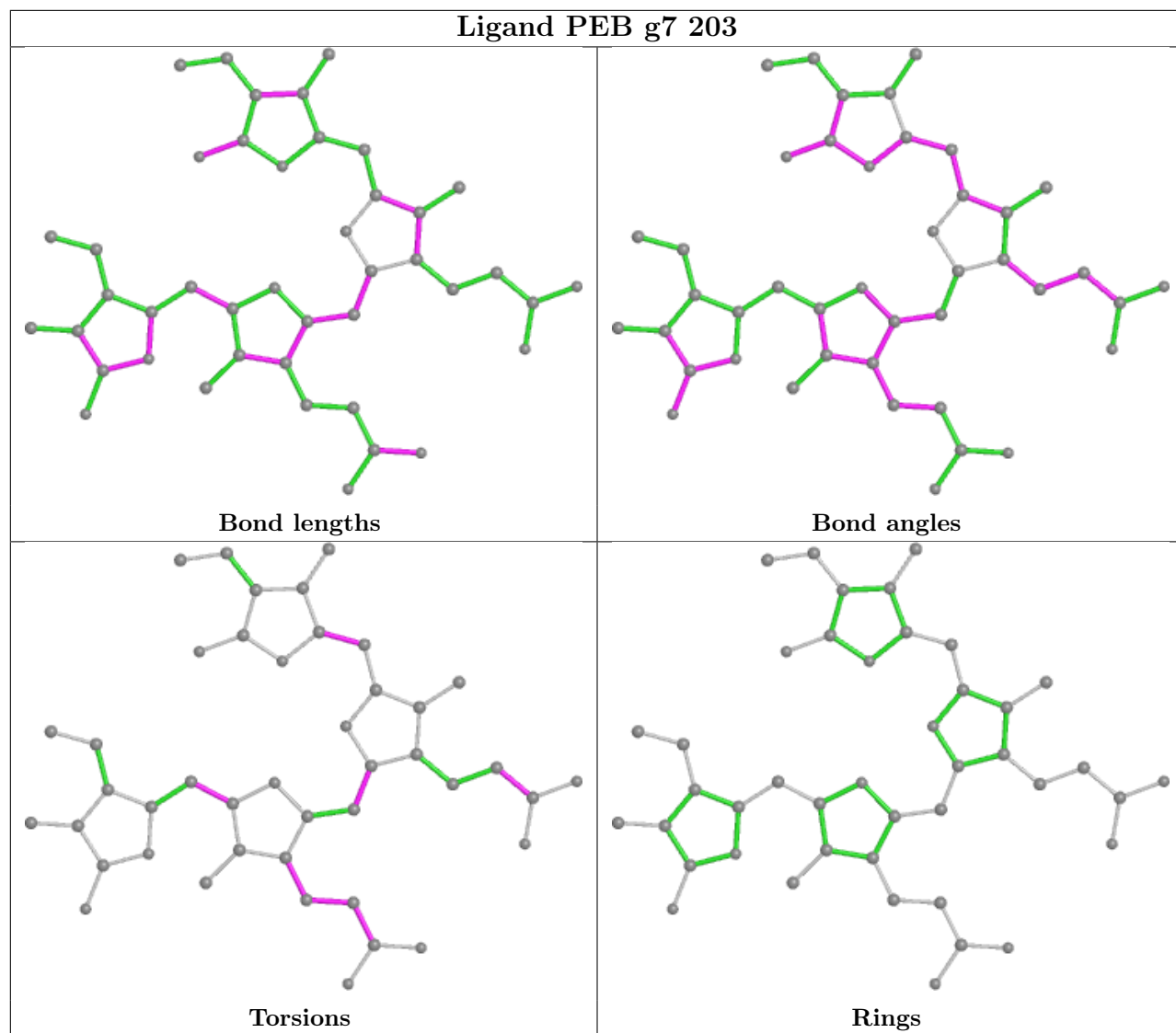
Bond angles

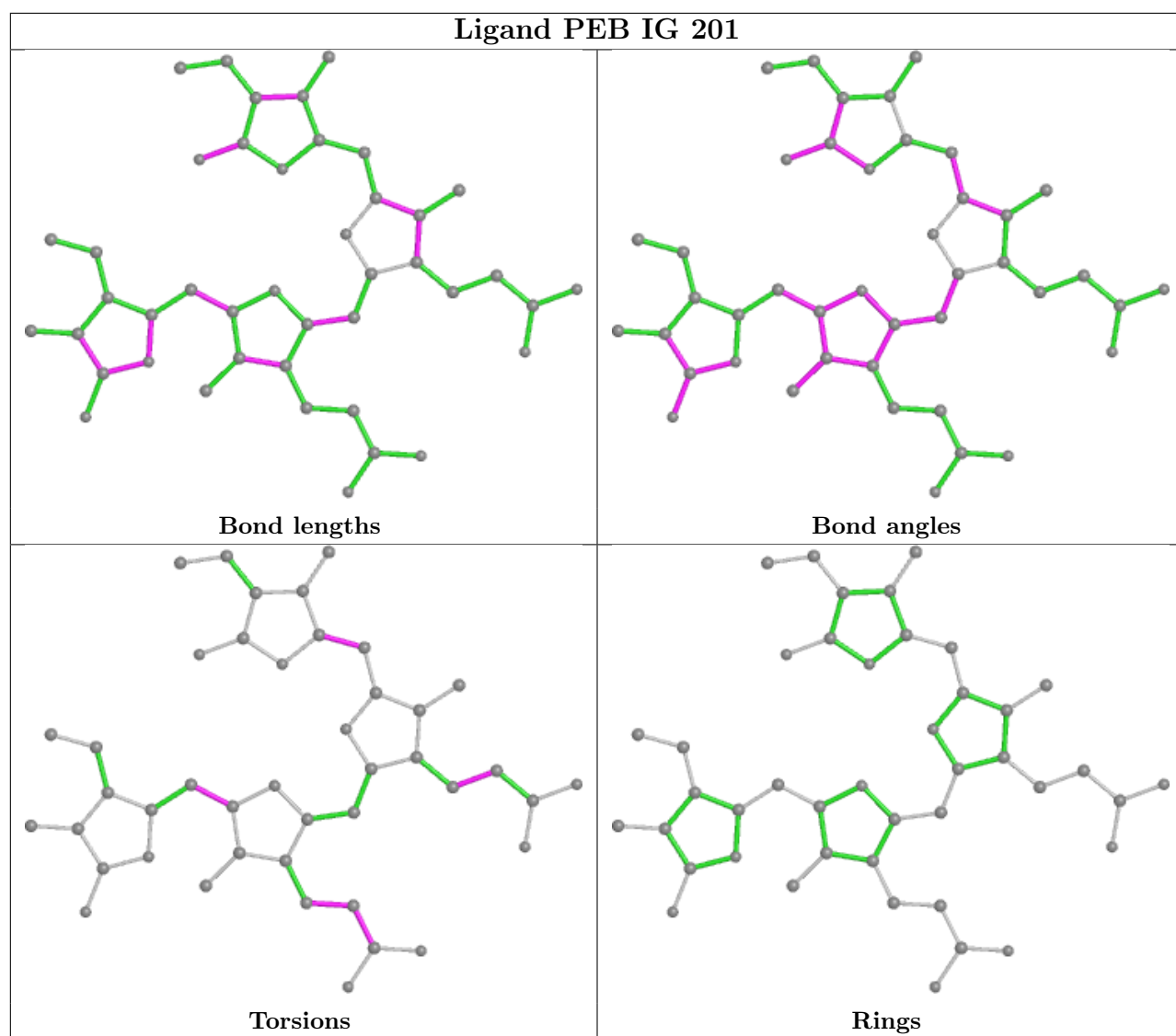


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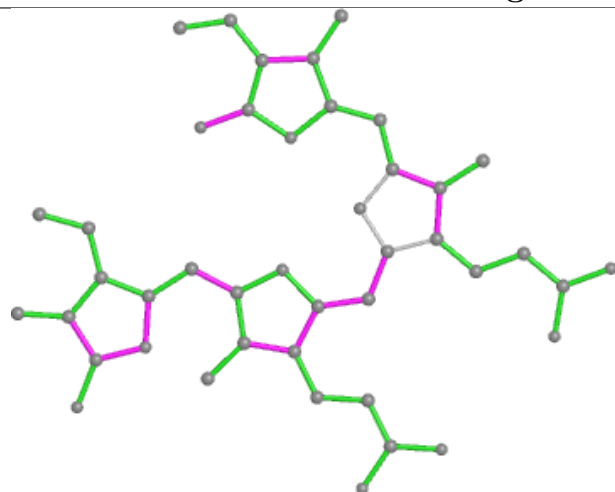


Rings

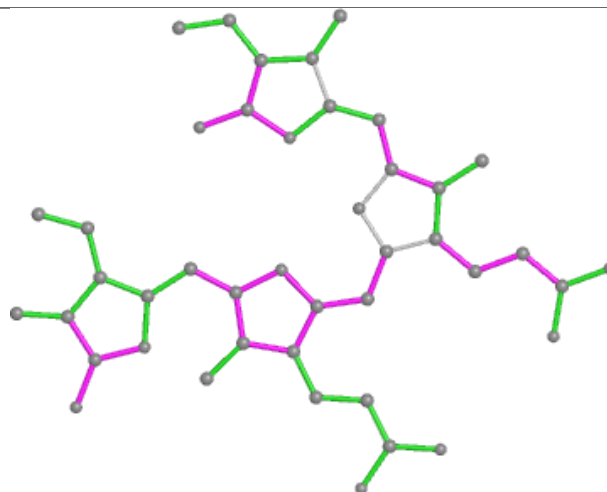




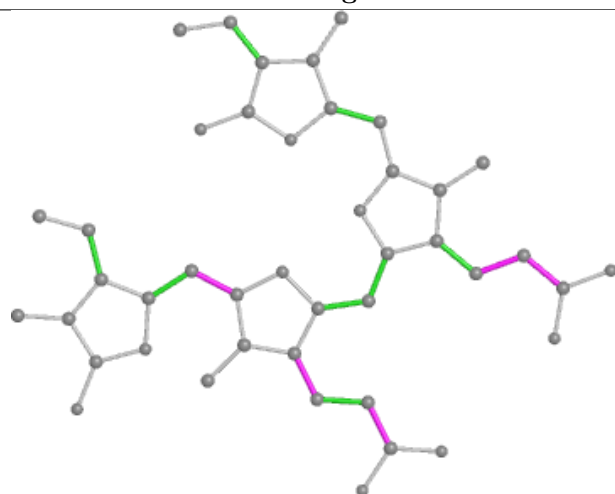
Ligand PEB N2 201



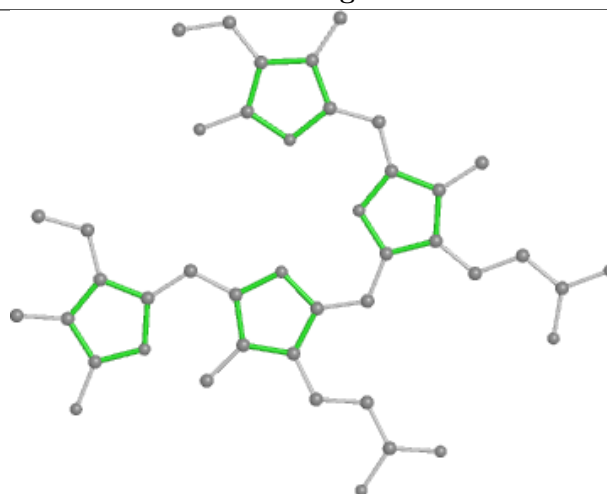
Bond lengths



Bond angles

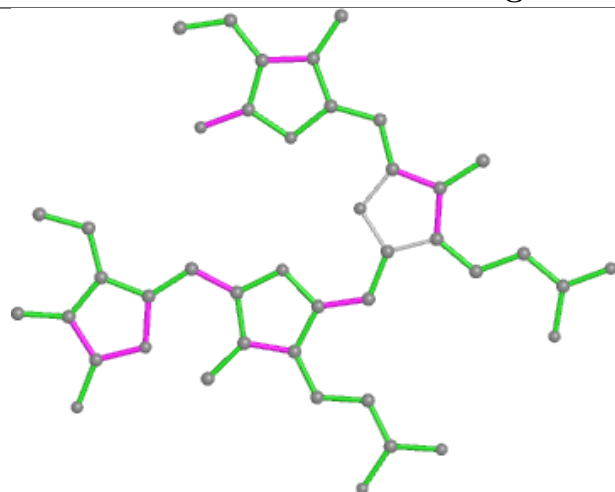


Torsions

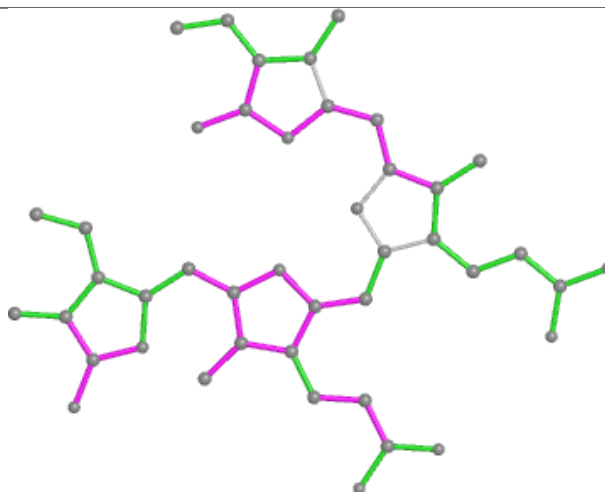


Rings

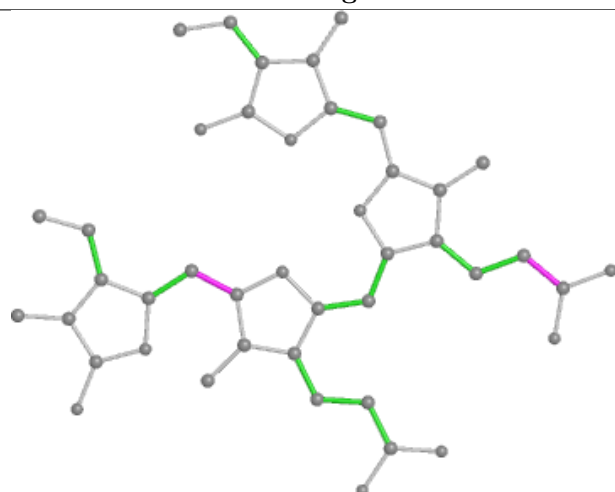
Ligand PEB m7 201



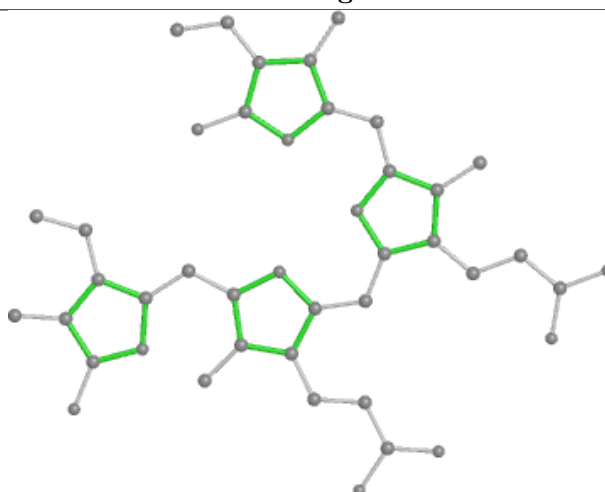
Bond lengths



Bond angles

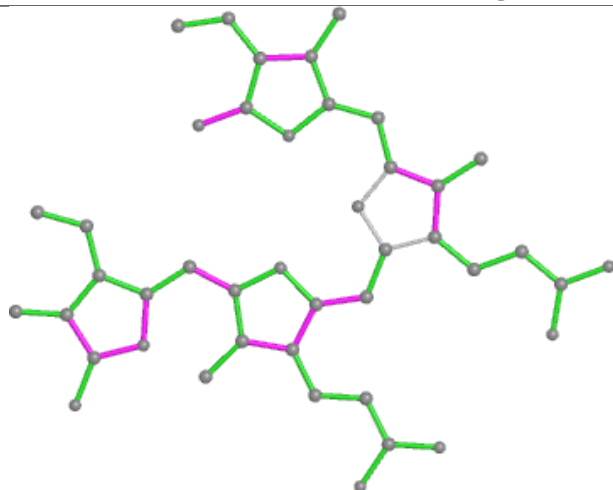


Torsions

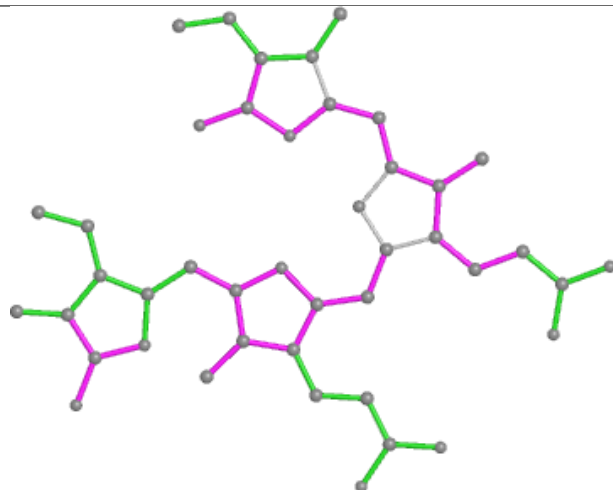


Rings

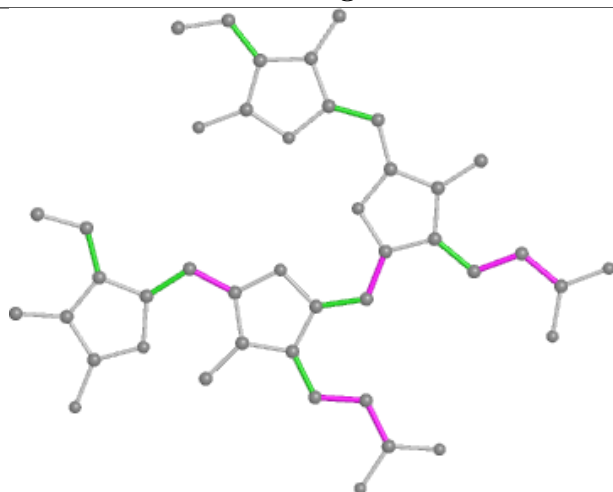
Ligand PEB WM 202



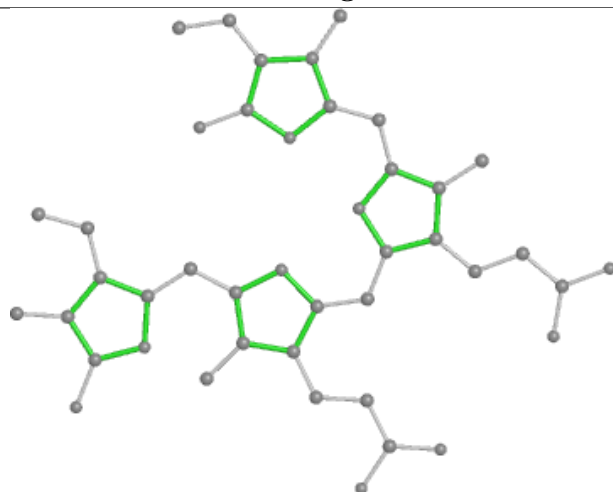
Bond lengths



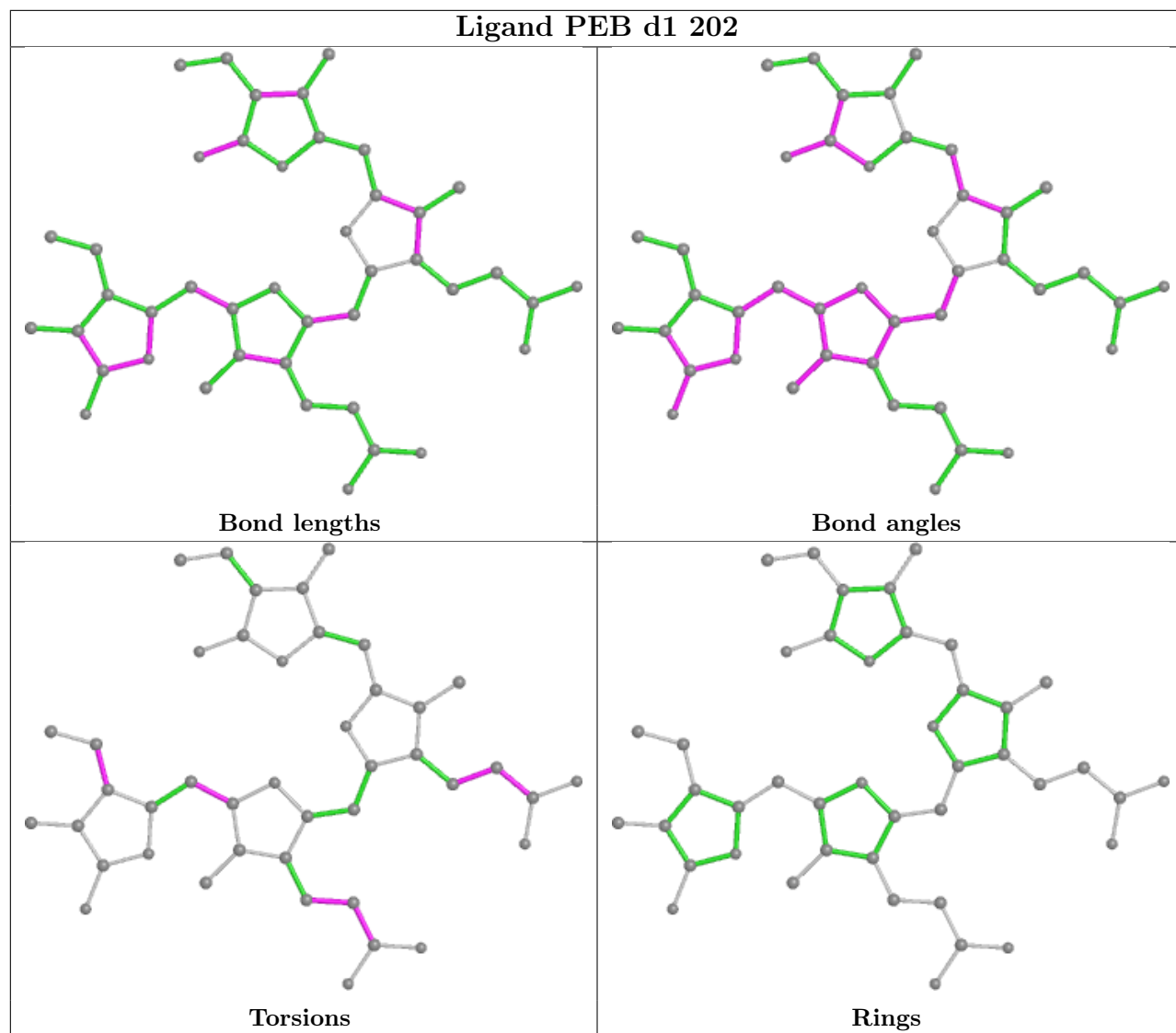
Bond angles

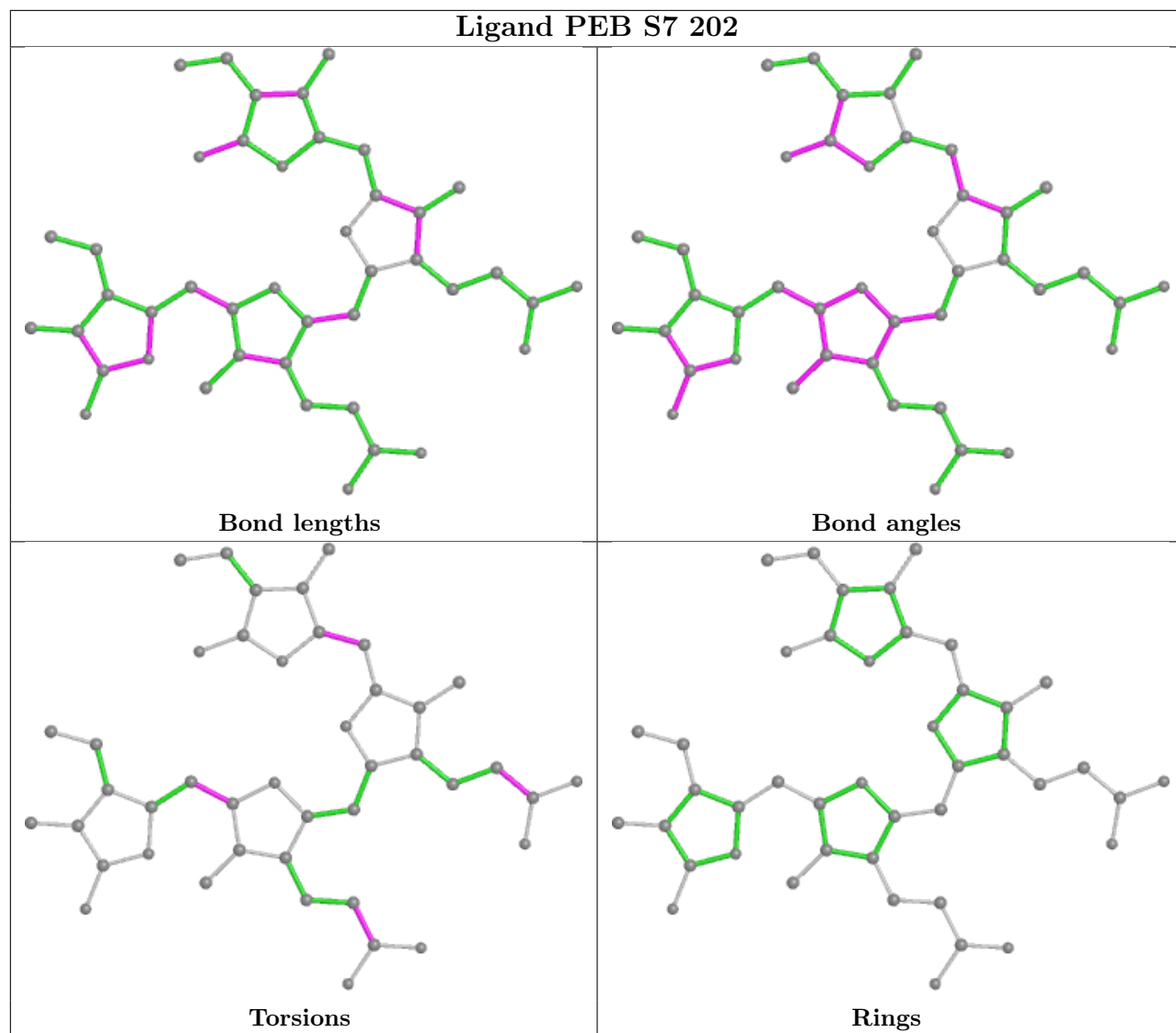


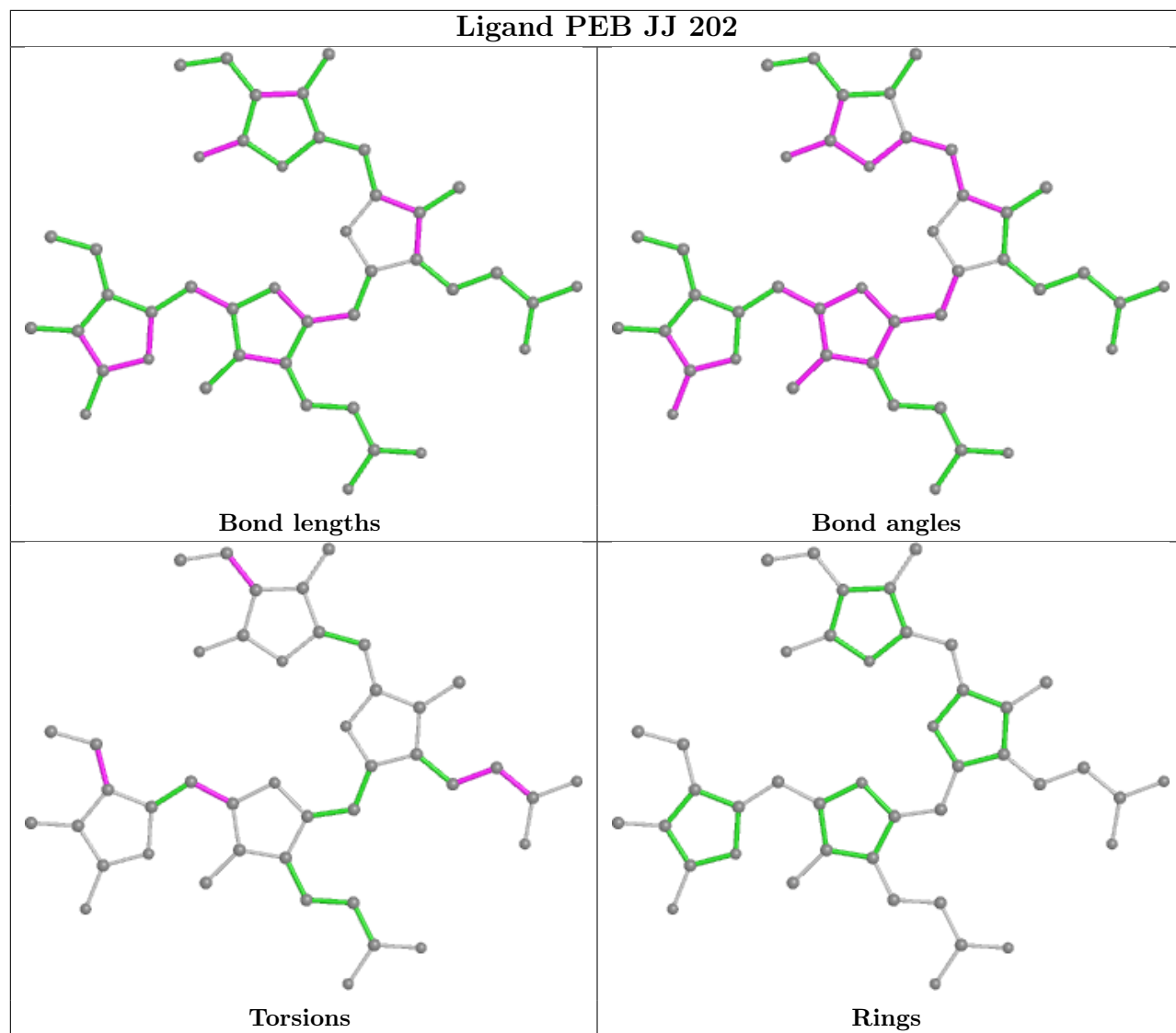
Torsions



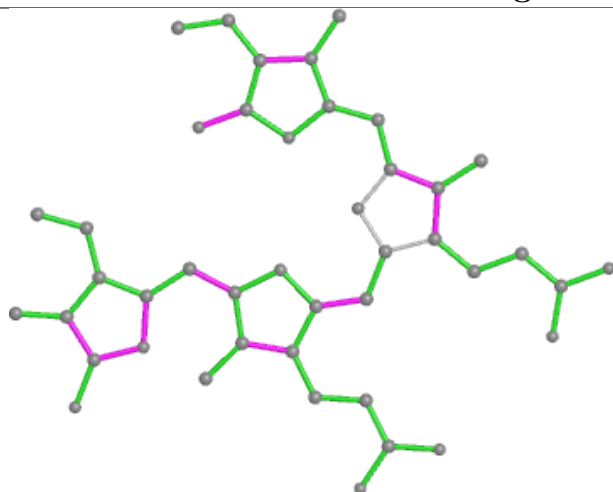
Rings



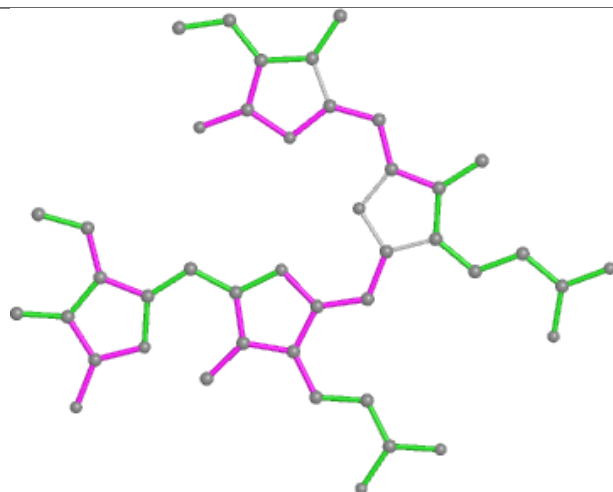




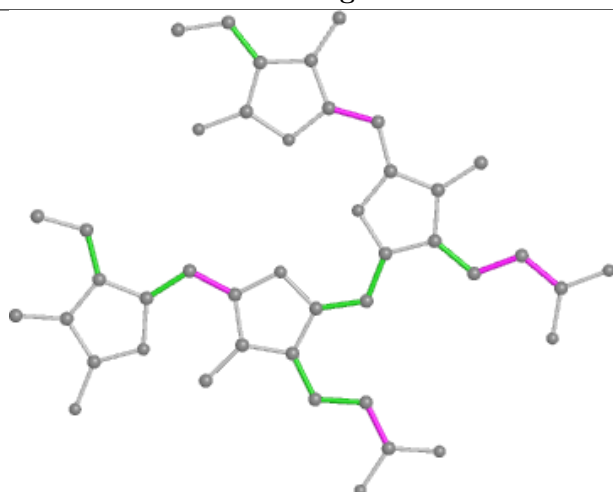
Ligand PEB i9 202



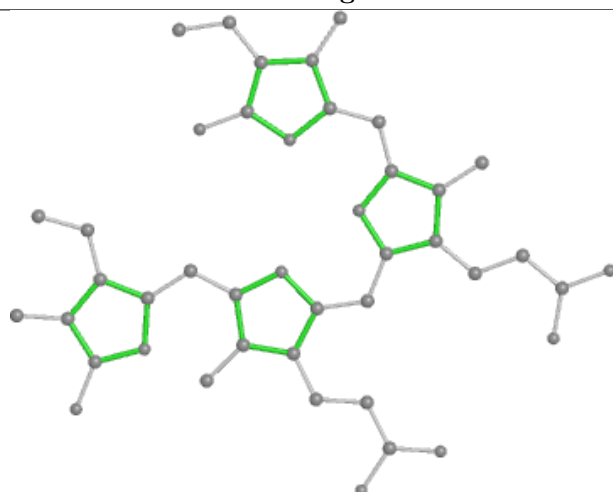
Bond lengths



Bond angles

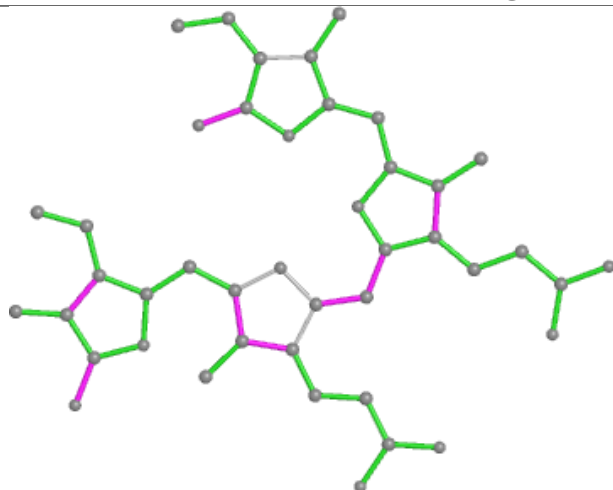


Torsions

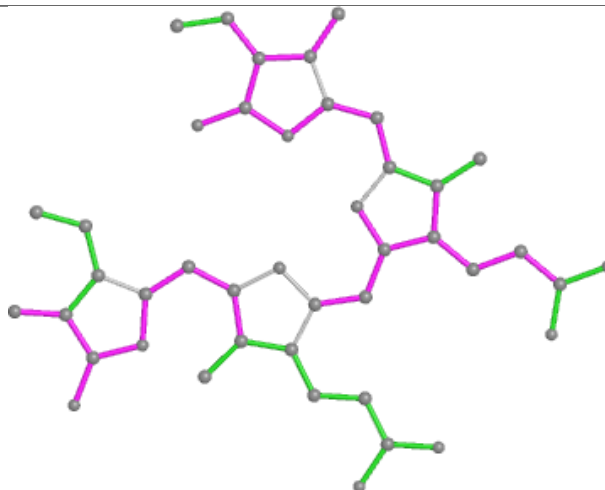


Rings

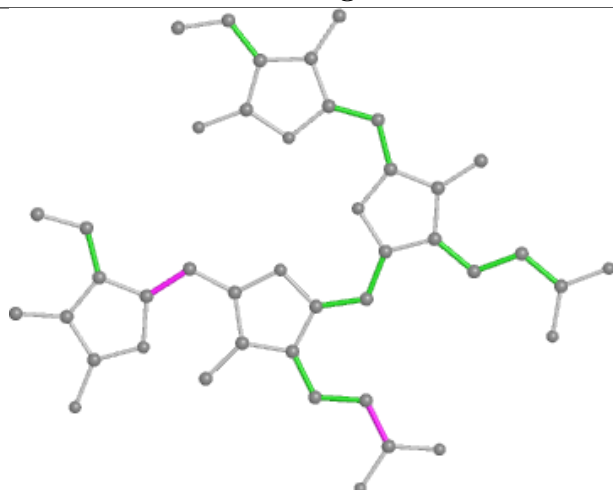
Ligand PUB A1 304



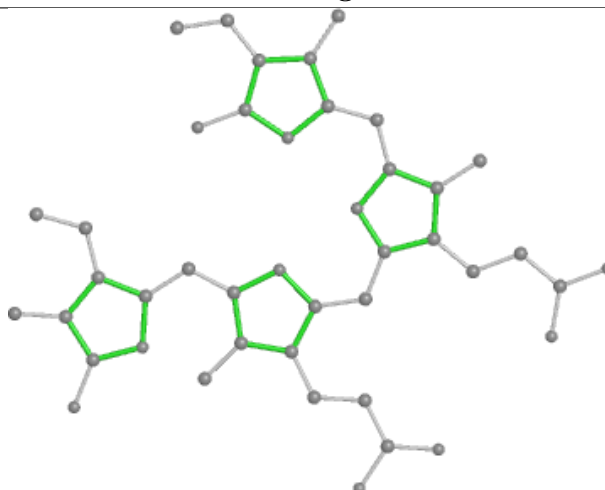
Bond lengths



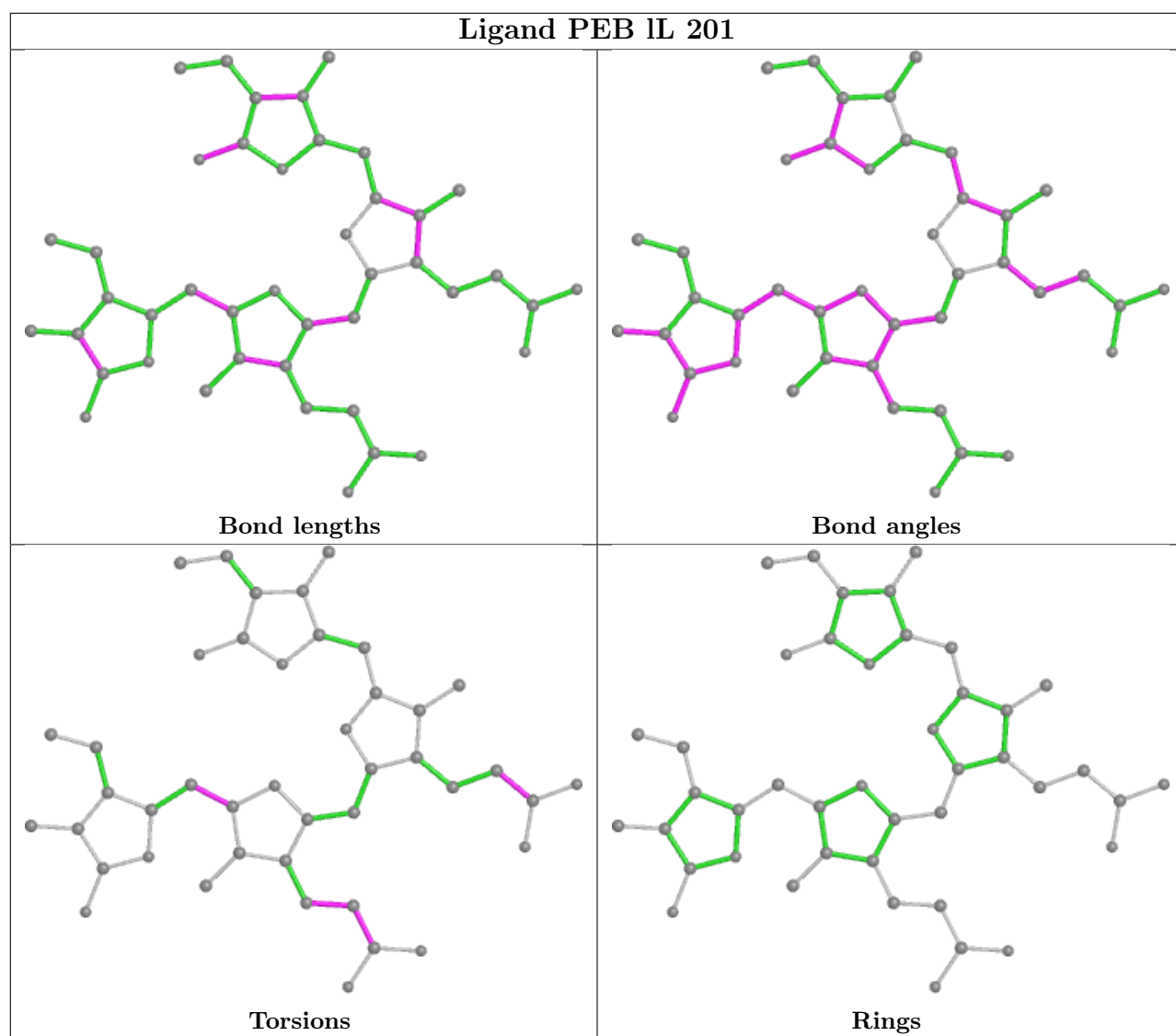
Bond angles

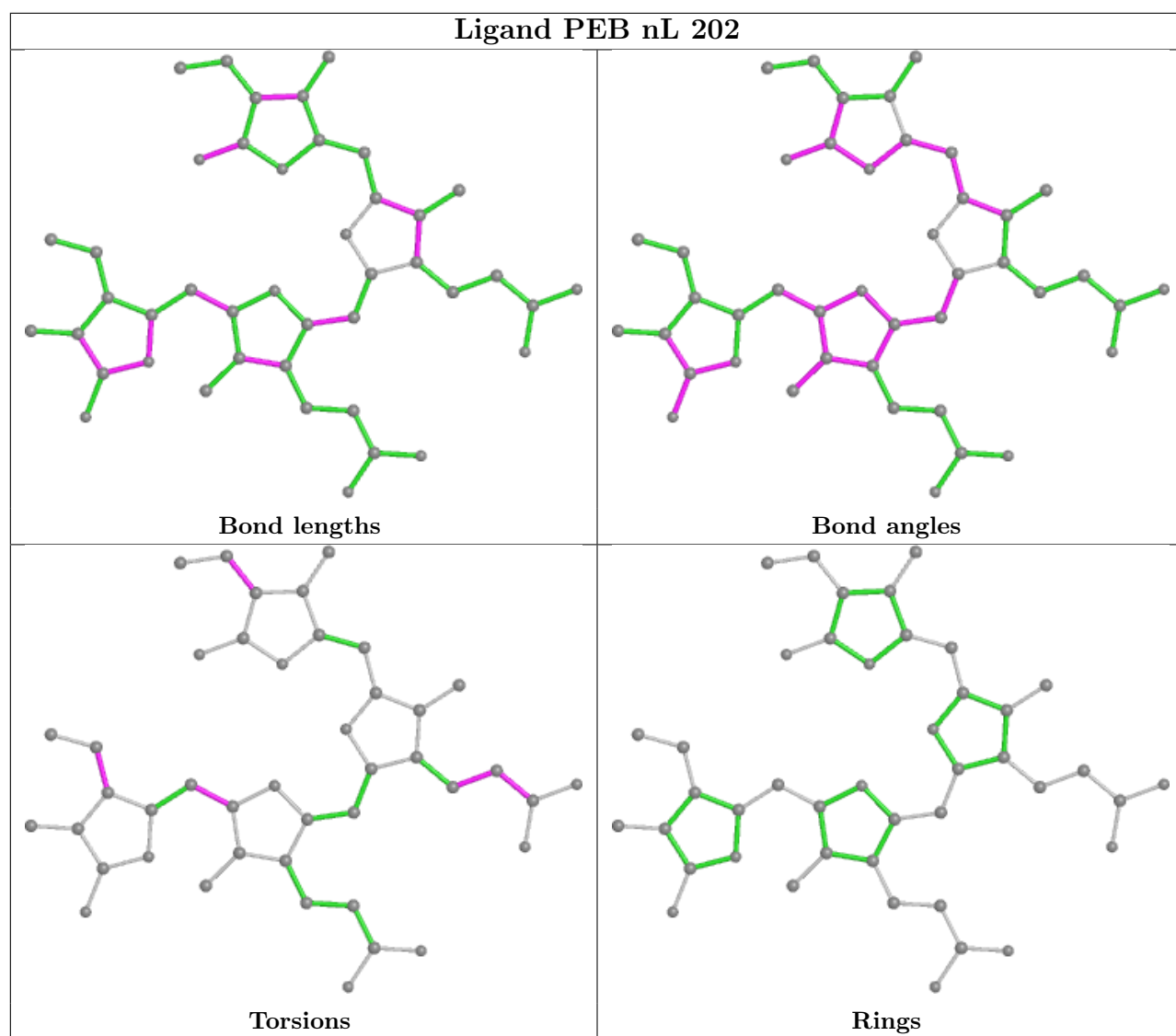


Torsions

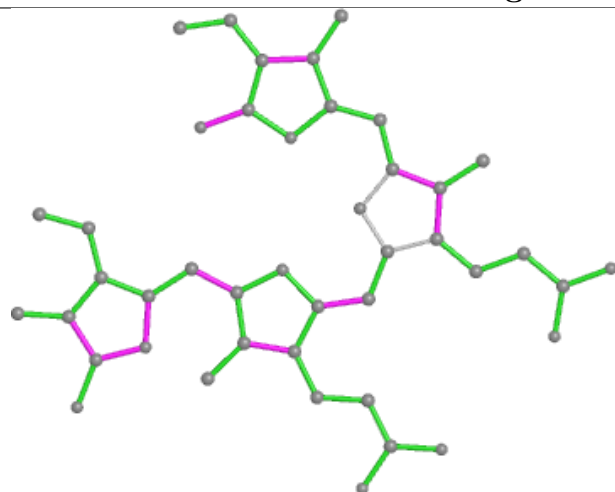


Rings

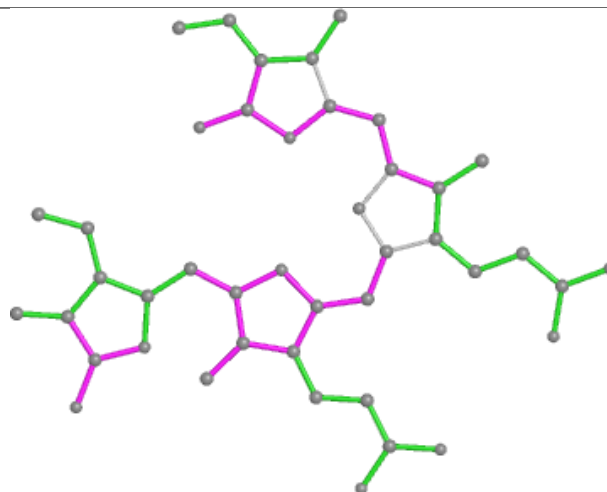




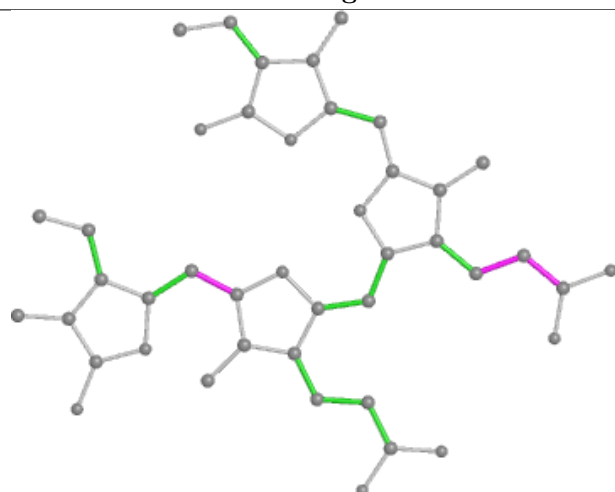
Ligand PEB EB 201



Bond lengths



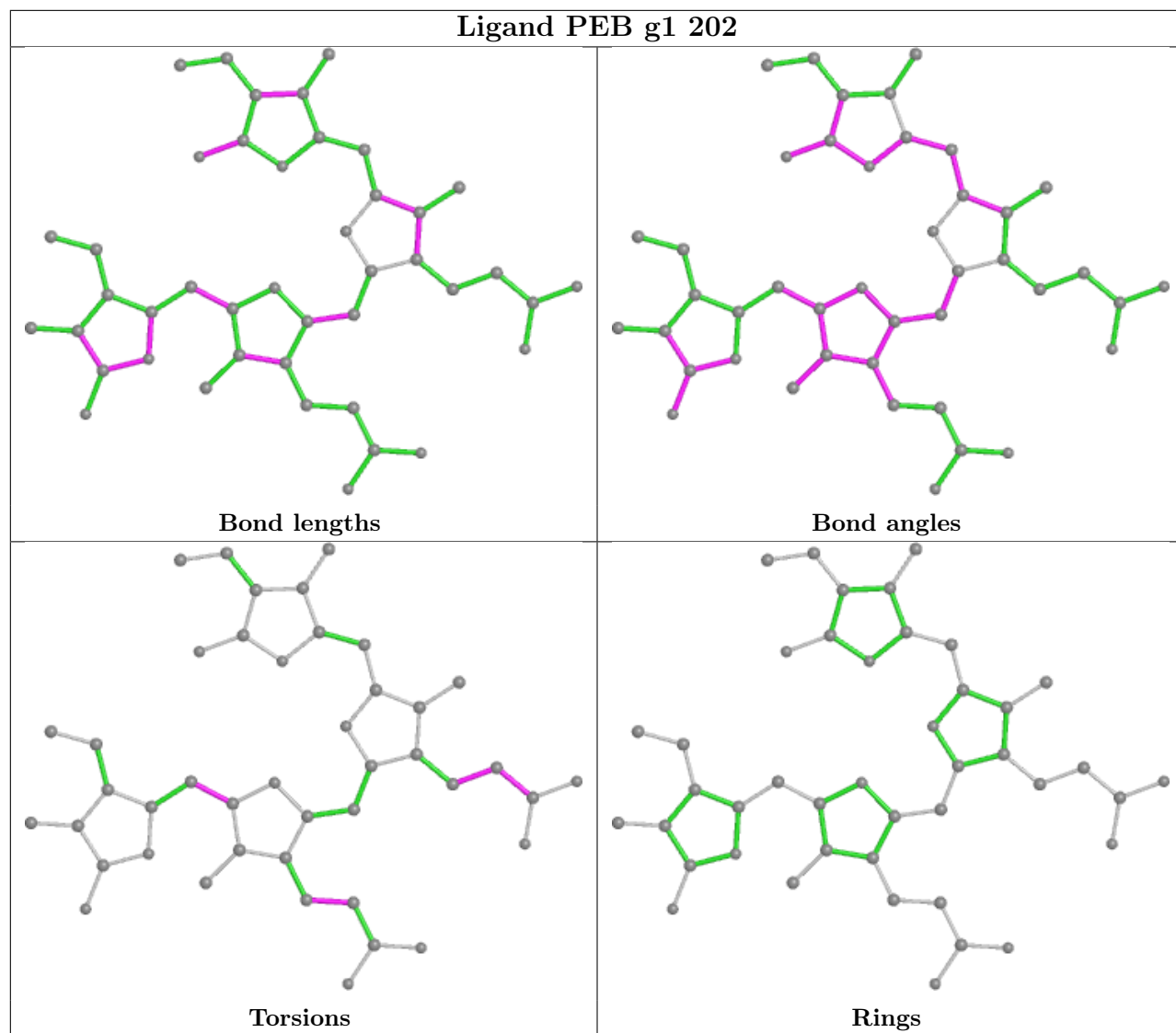
Bond angles

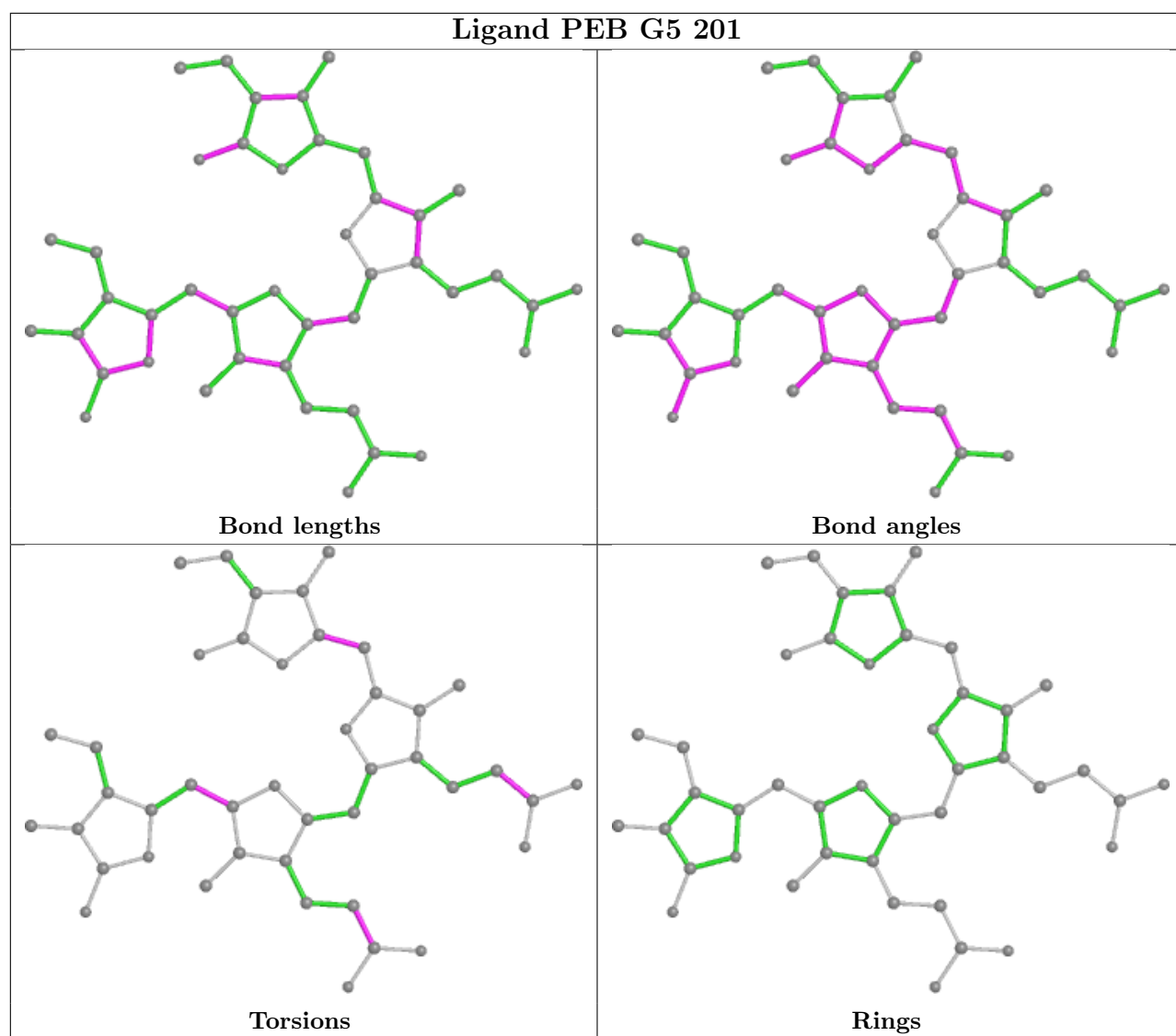


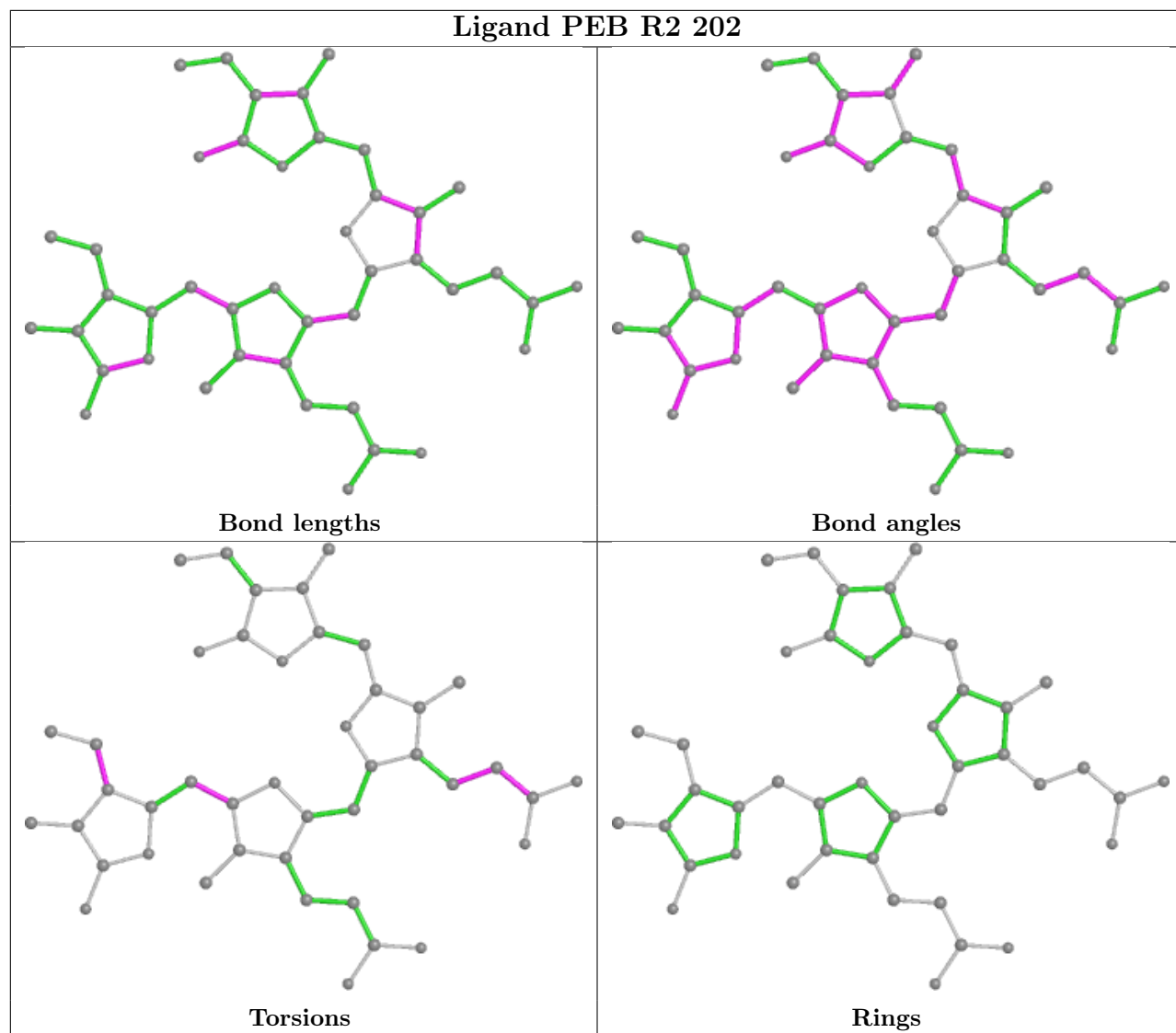
Torsions



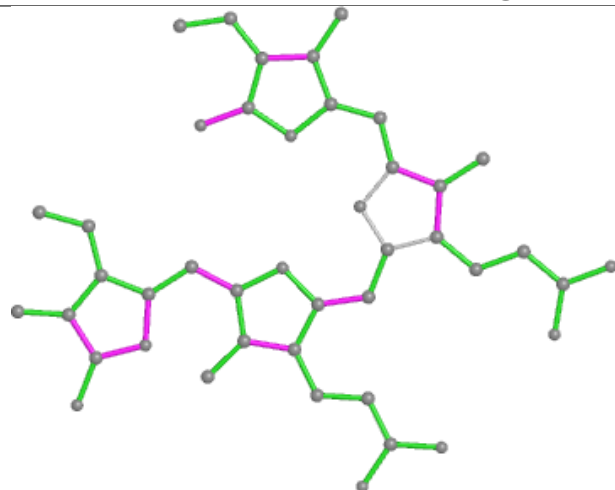
Rings



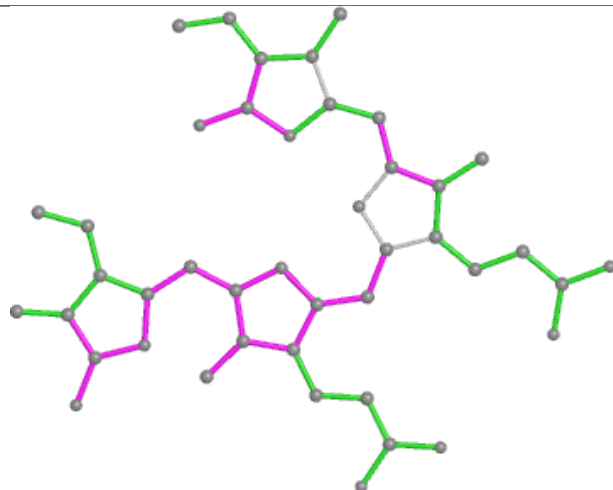




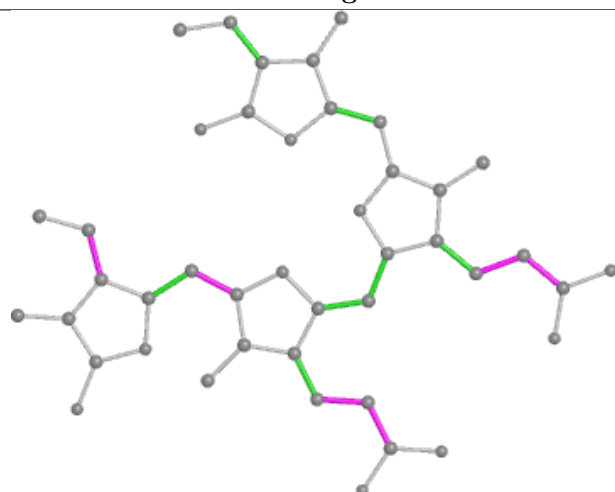
Ligand PEB WK 202



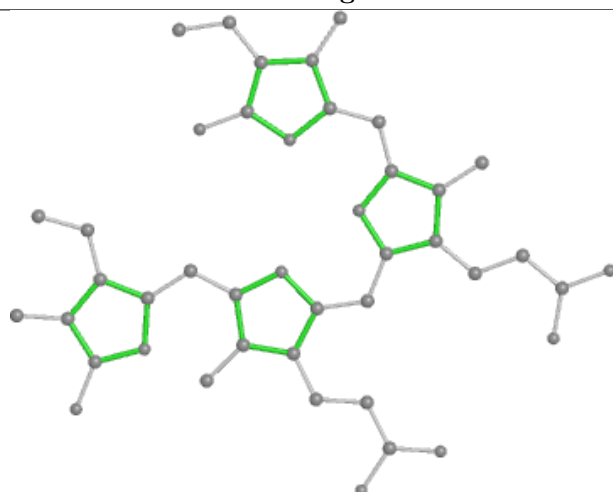
Bond lengths



Bond angles

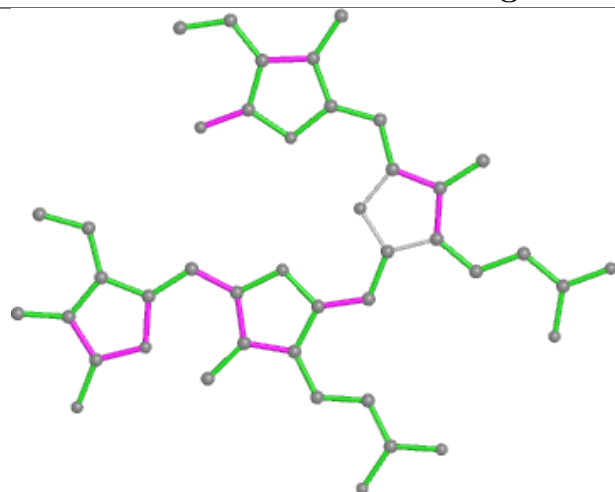


Torsions

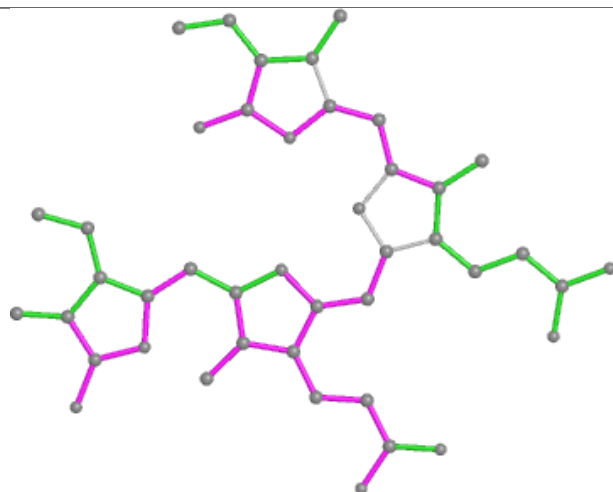


Rings

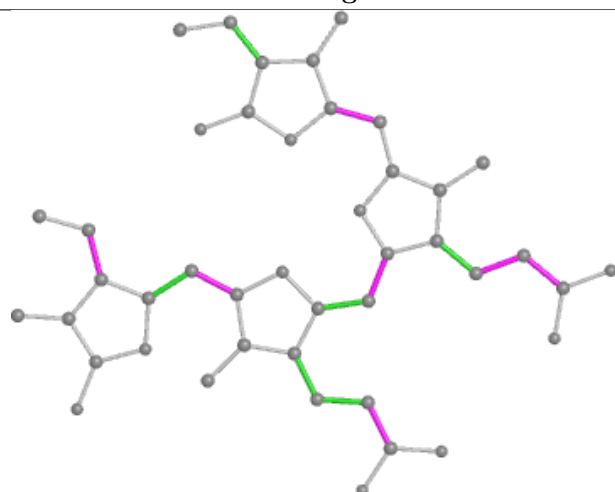
Ligand PEB TM 203



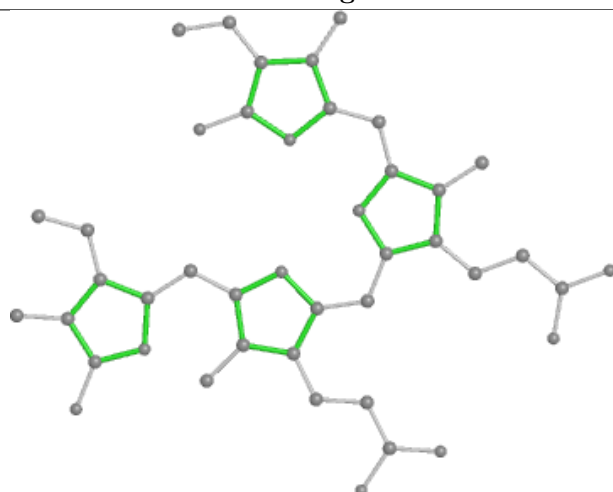
Bond lengths



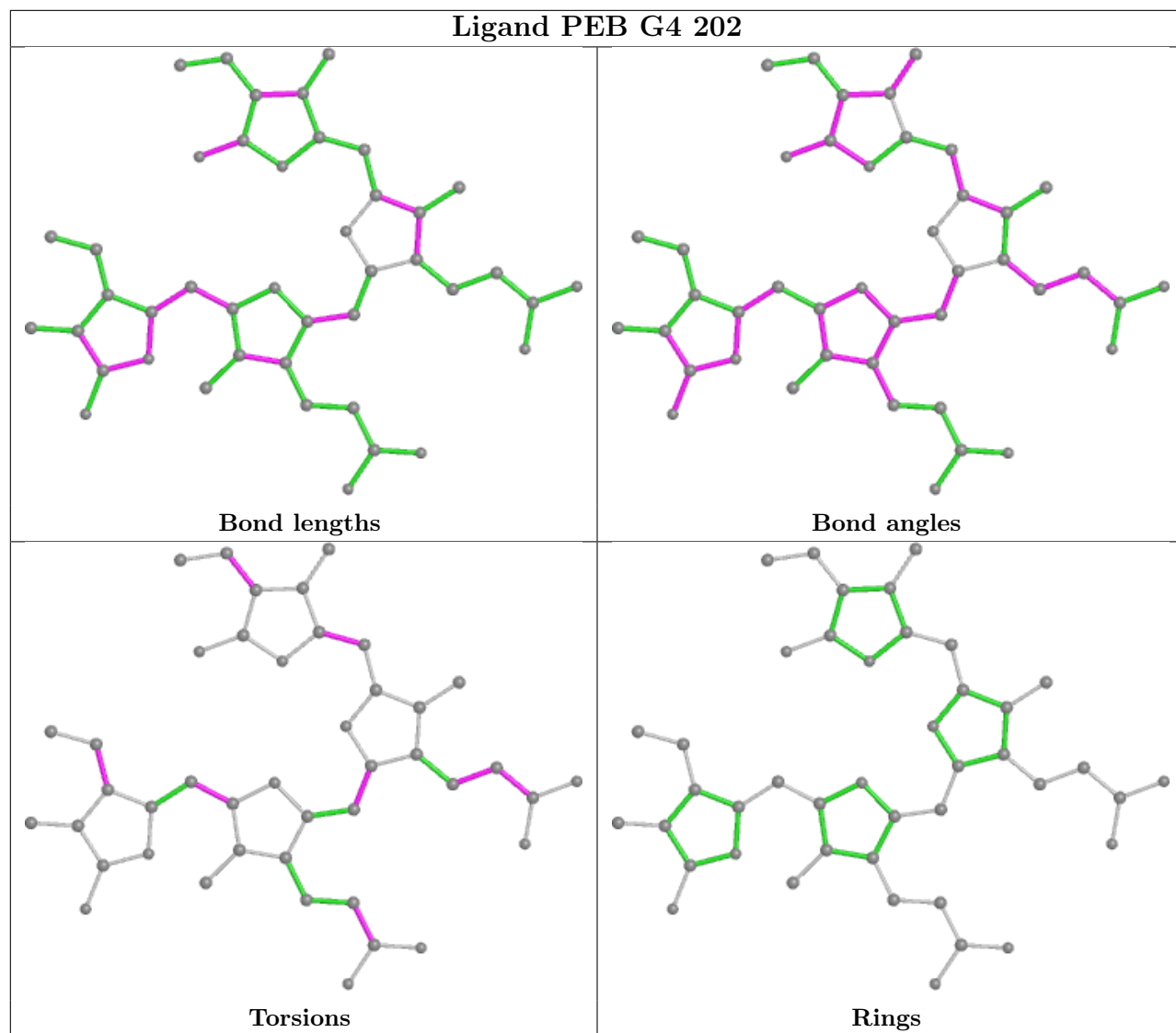
Bond angles



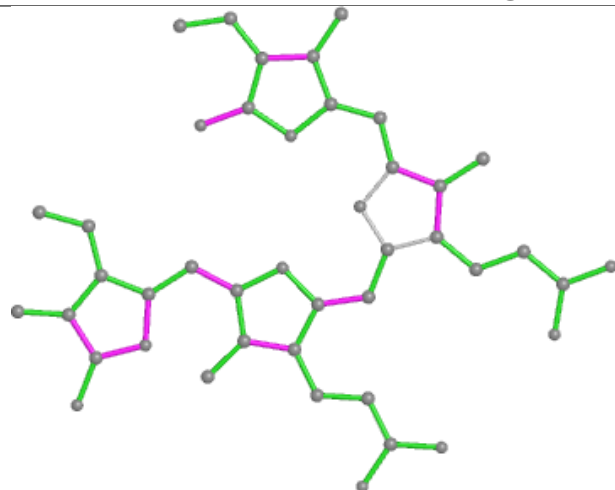
Torsions



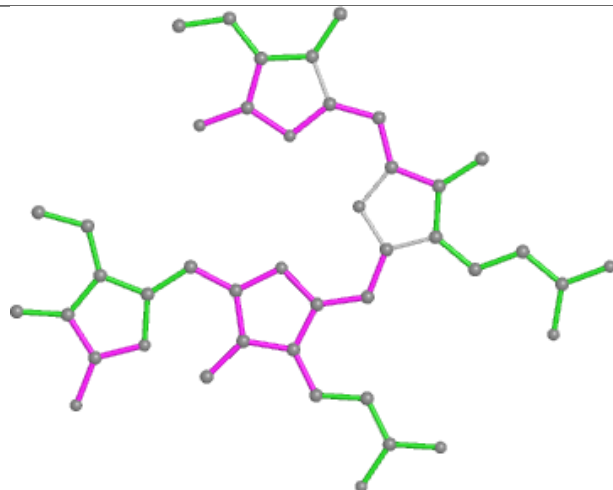
Rings



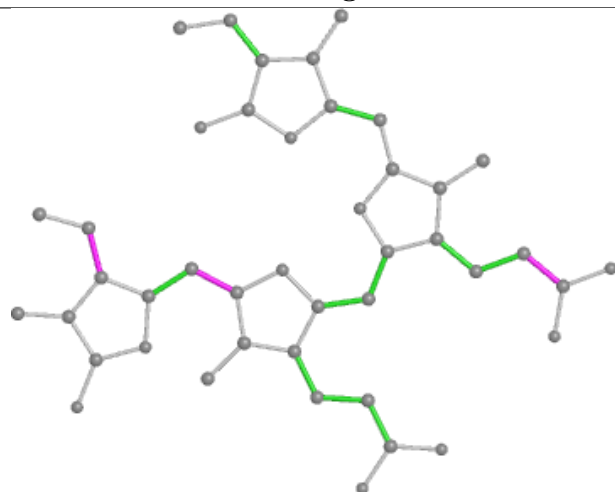
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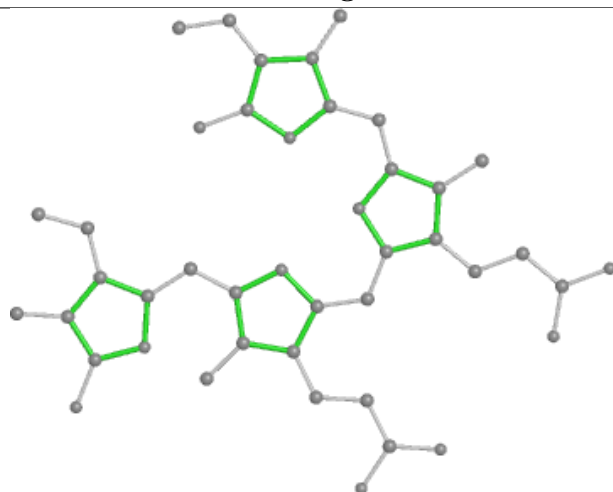
Bond lengths



Bond angles

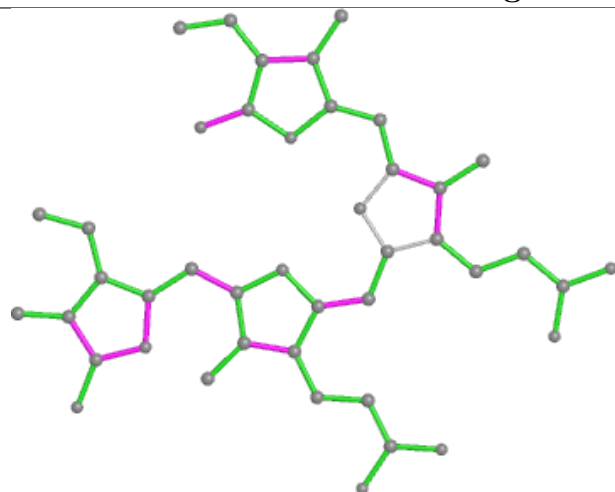


Torsions

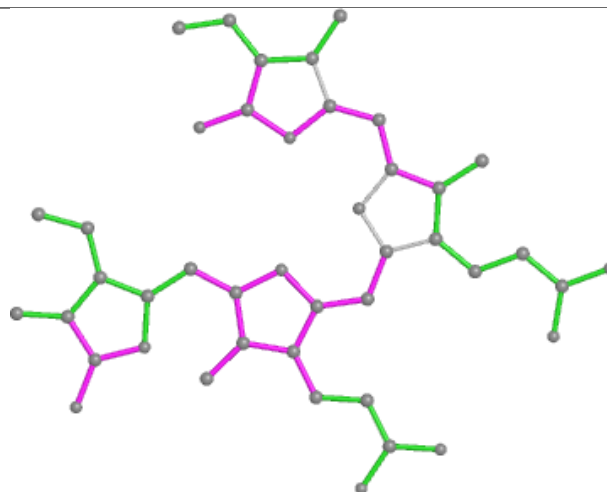


Rings

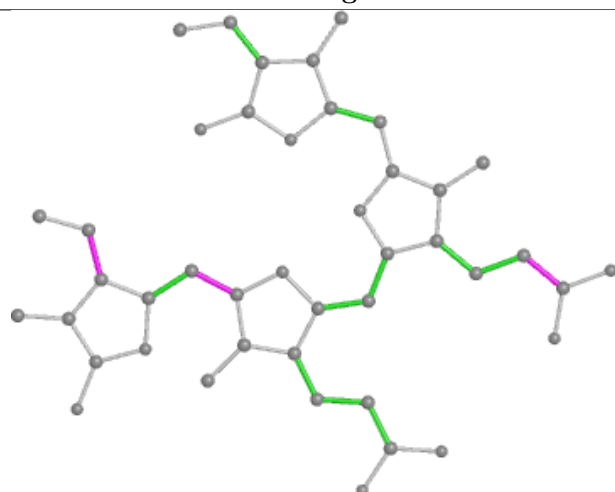
Ligand PEB RB 202



Bond lengths



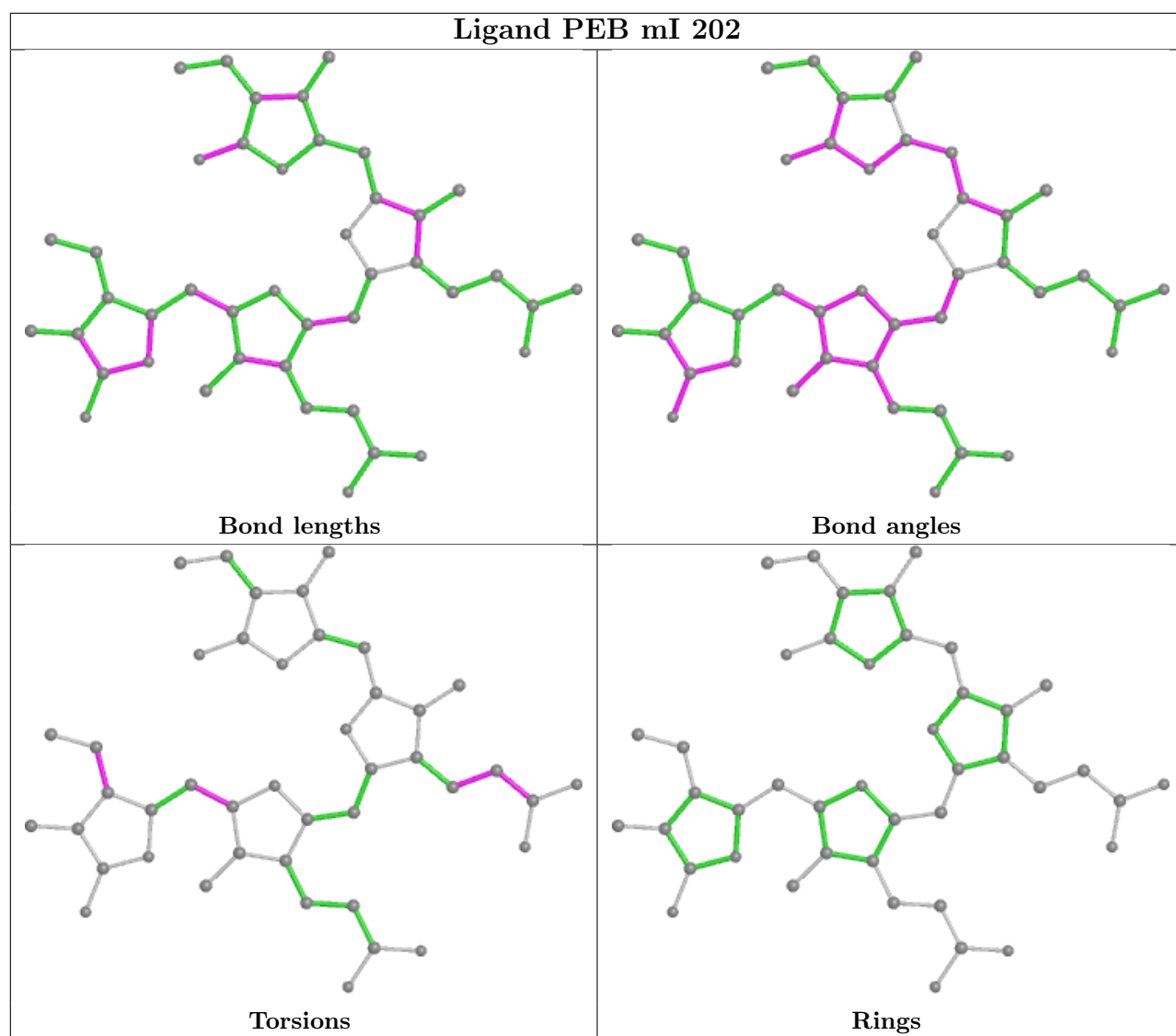
Bond angles



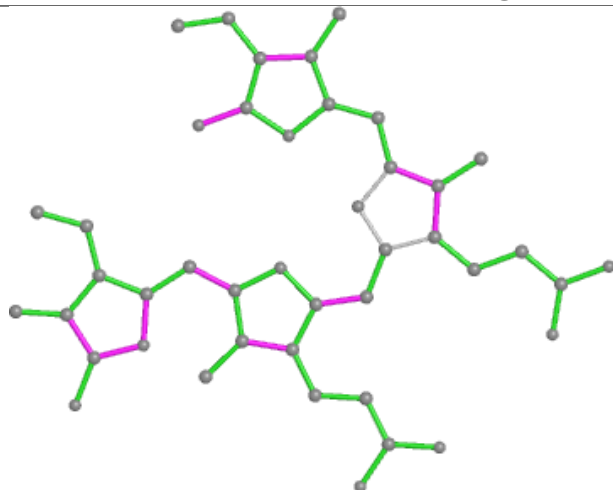
Torsions



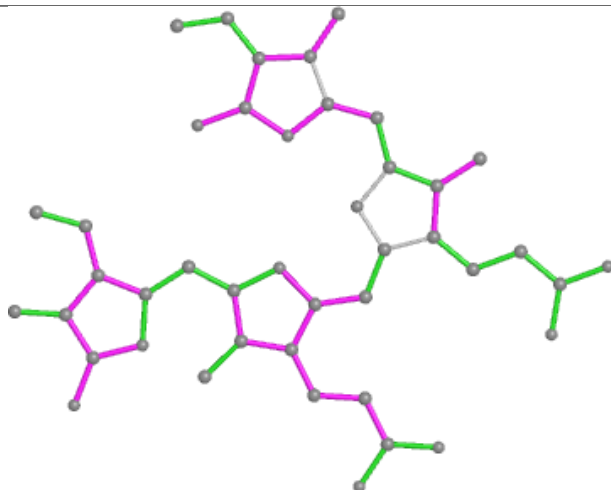
Rings



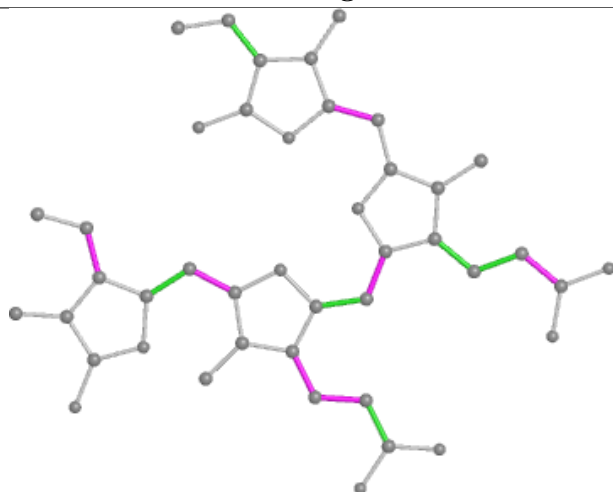
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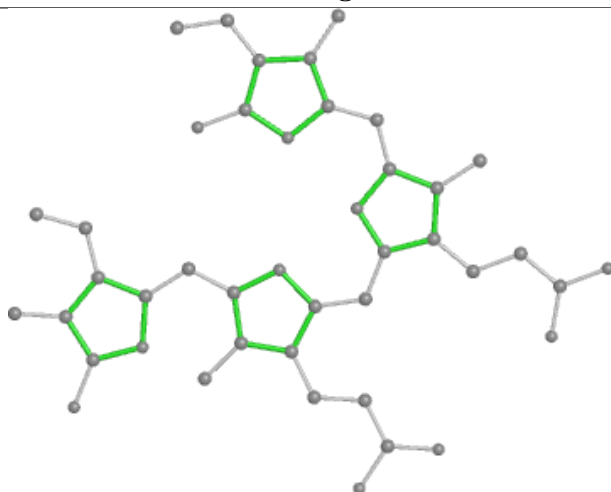
Bond lengths



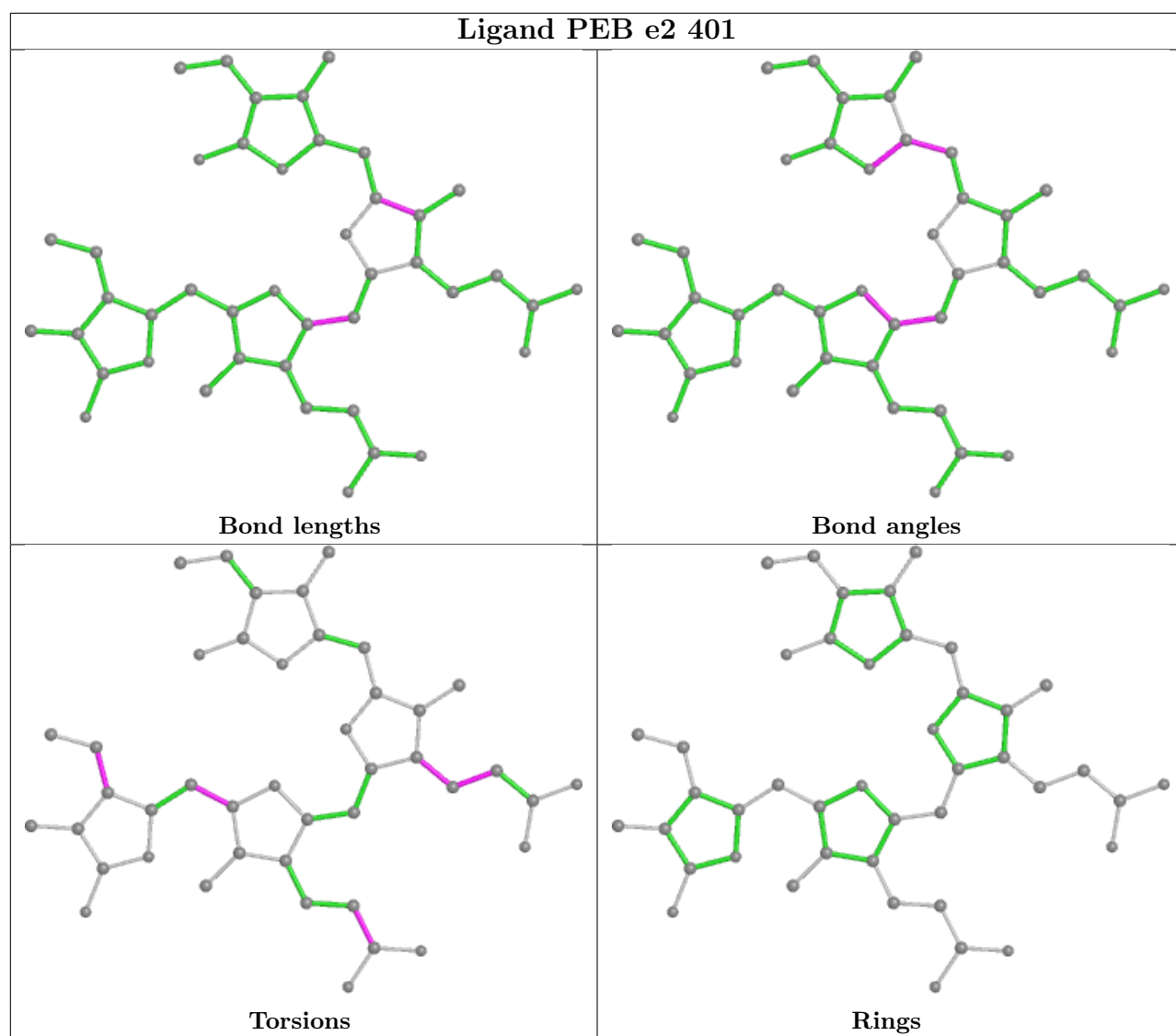
Bond angles



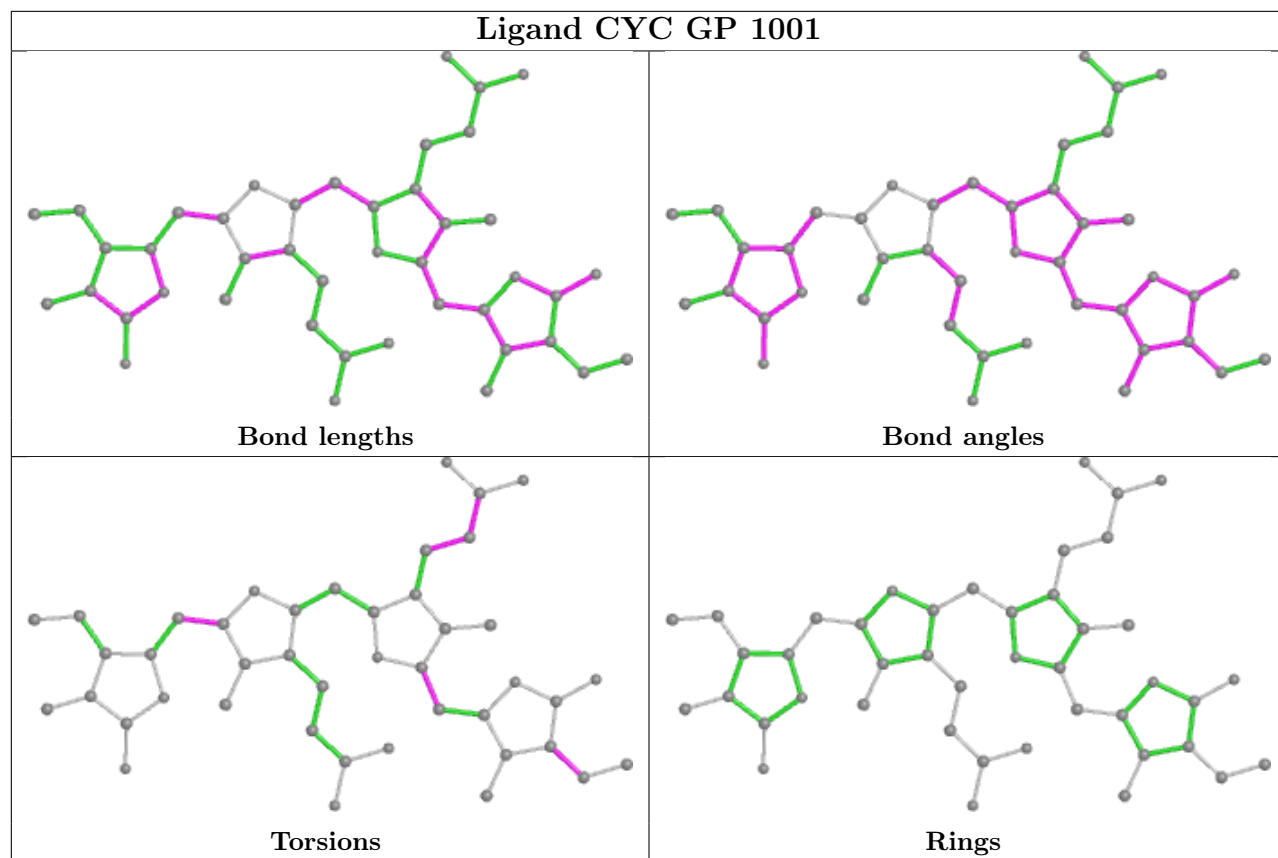
Torsions



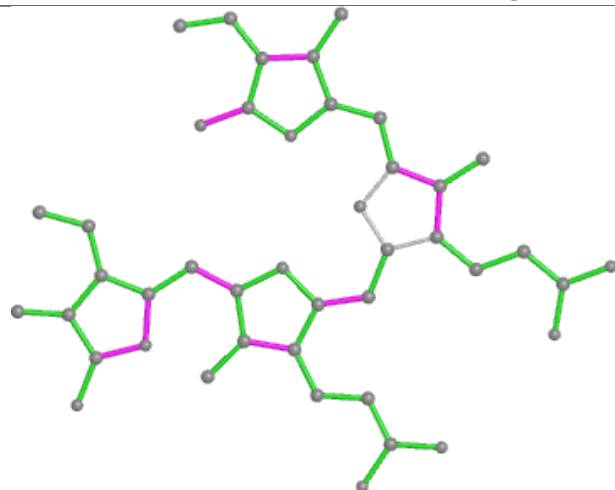
Rings



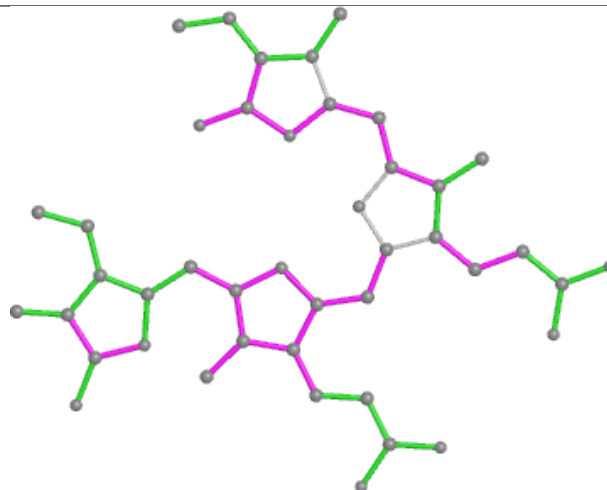
Ligand CYC GP 1001



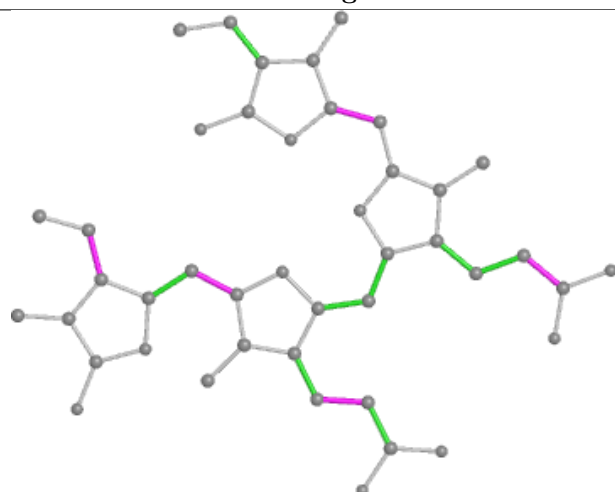
Ligand PEB AL 201



Bond lengths



Bond angles

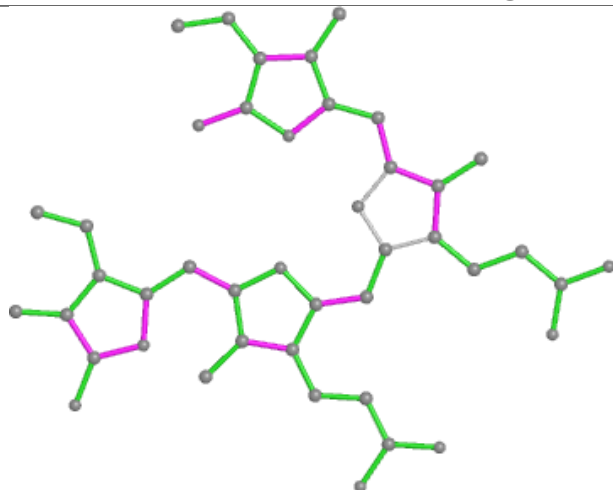


Torsions

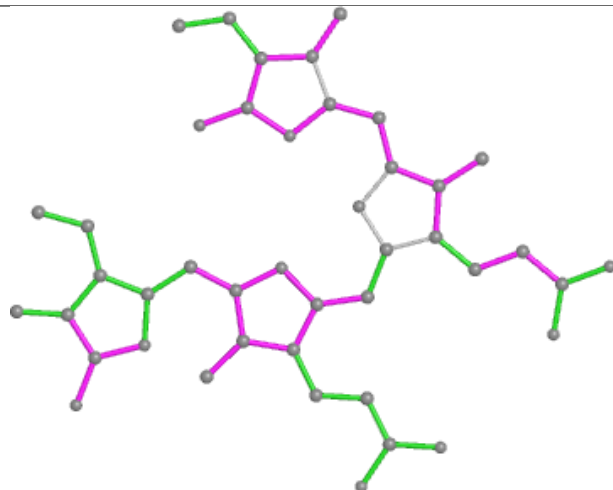


Rings

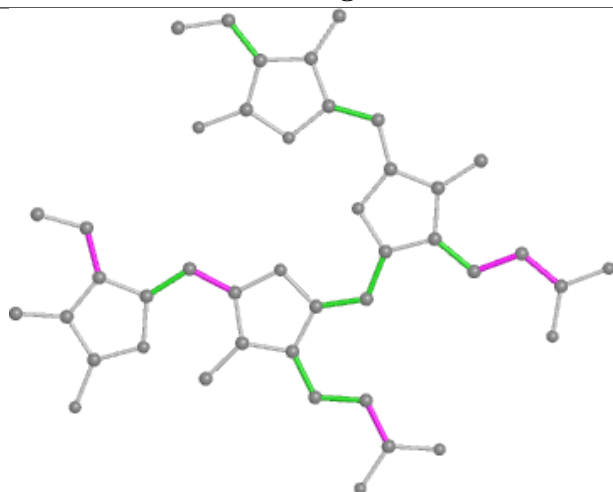
Ligand PEB BO 202



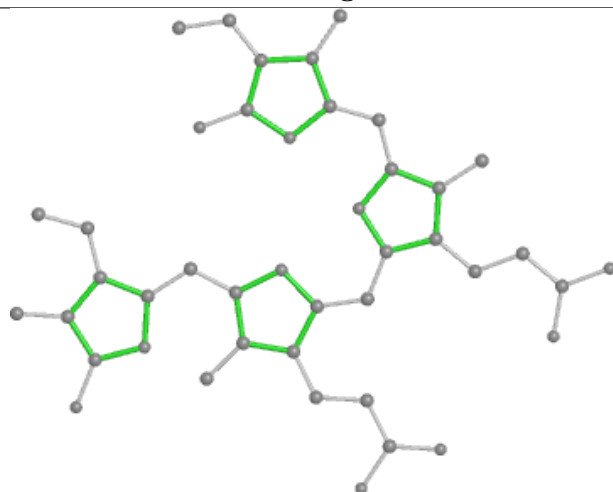
Bond lengths



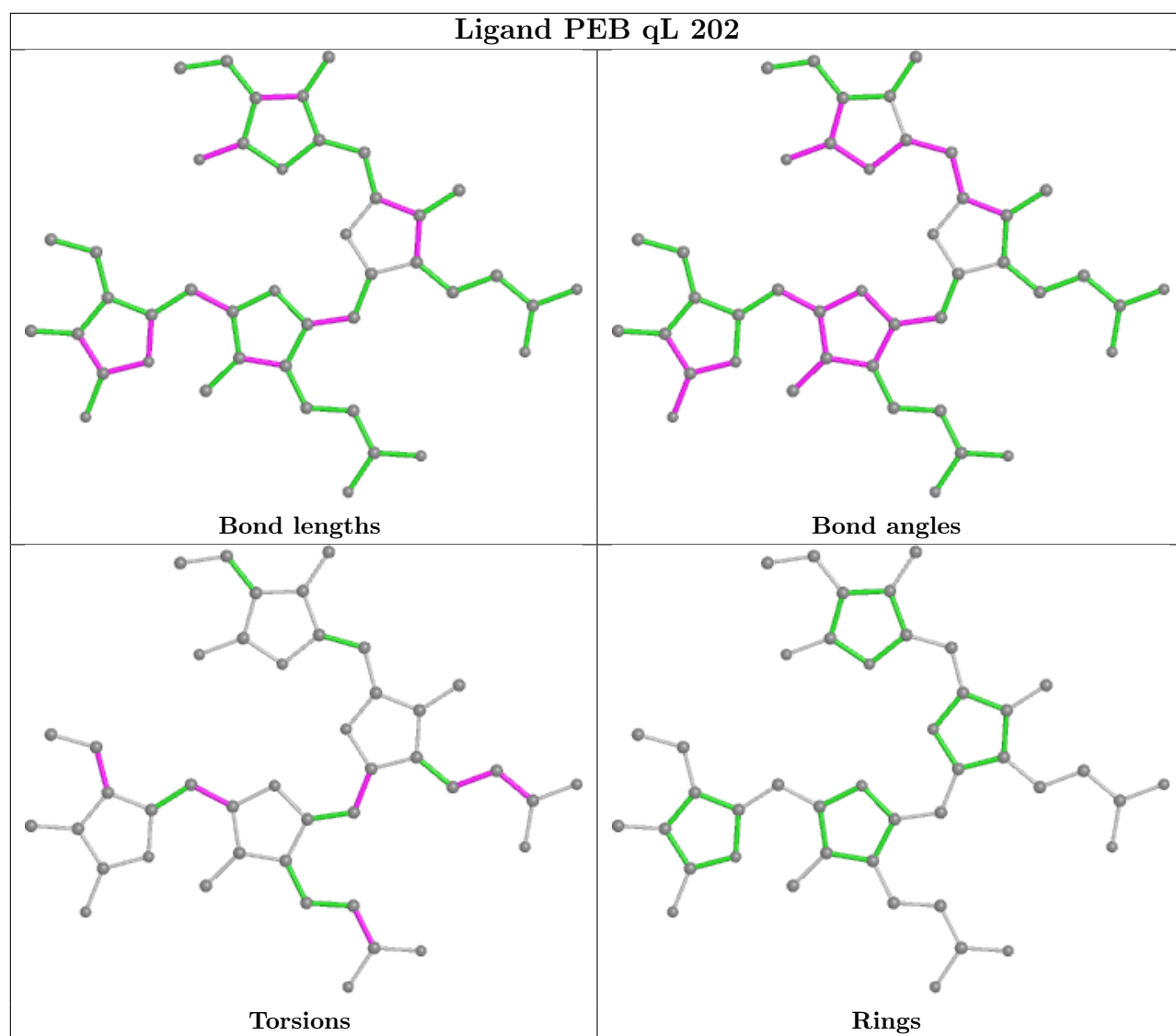
Bond angles

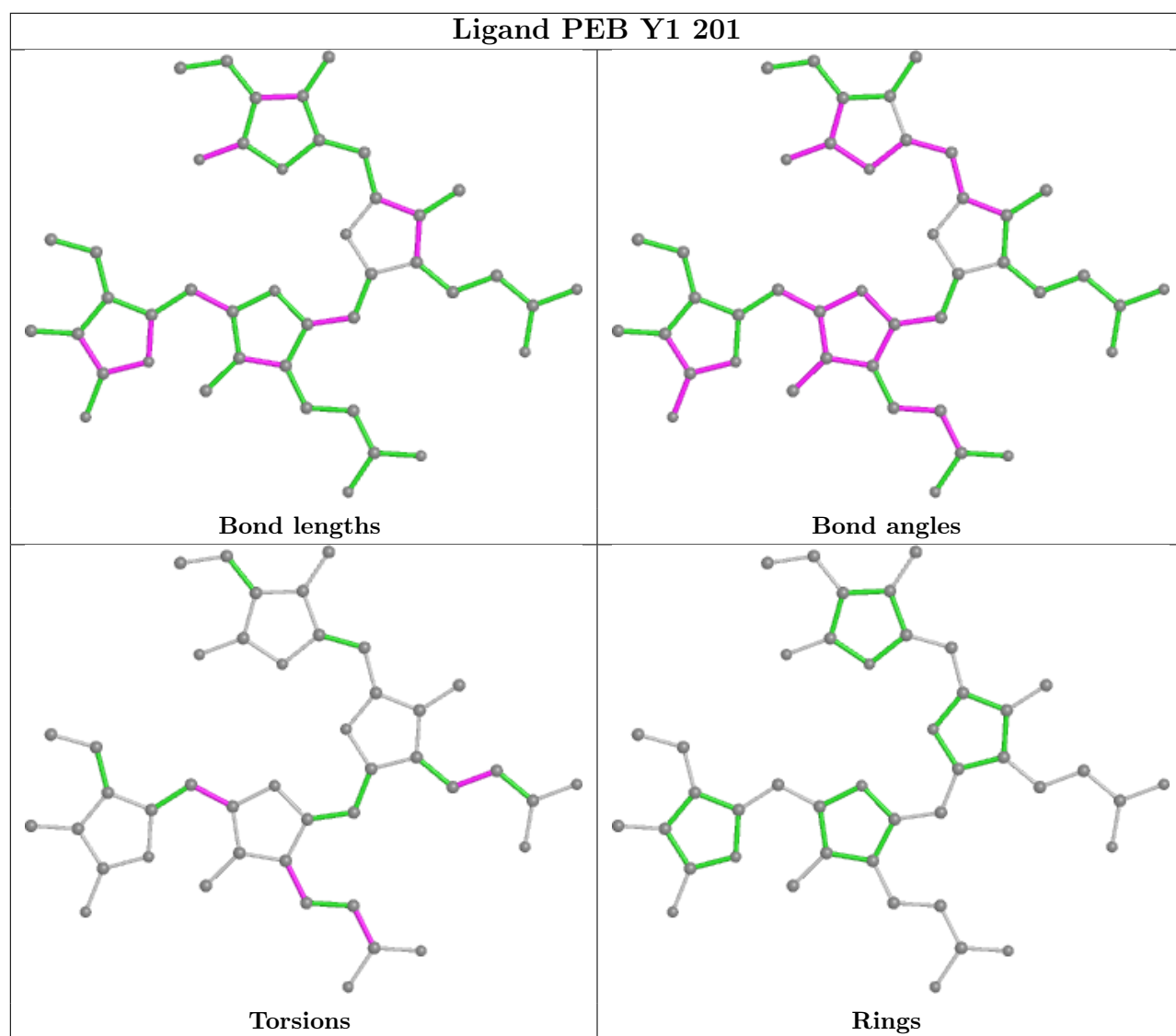


Torsions

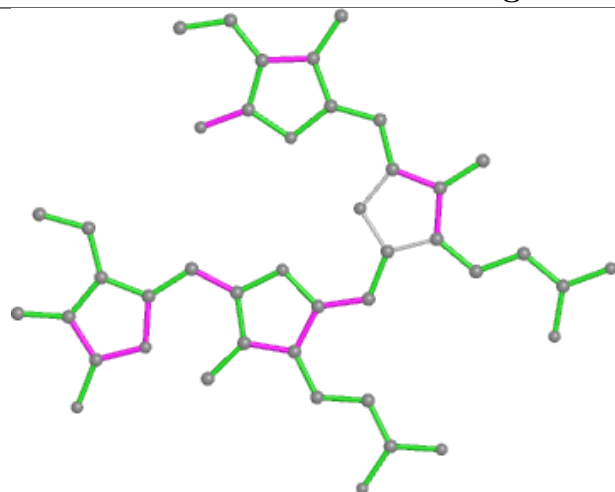


Rings

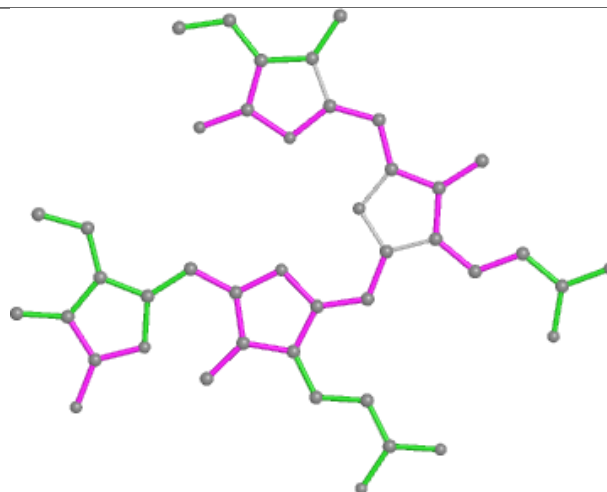




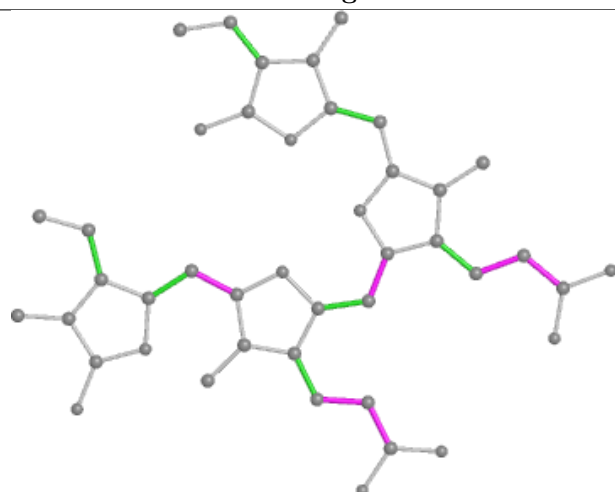
Ligand PEB GB 202



Bond lengths



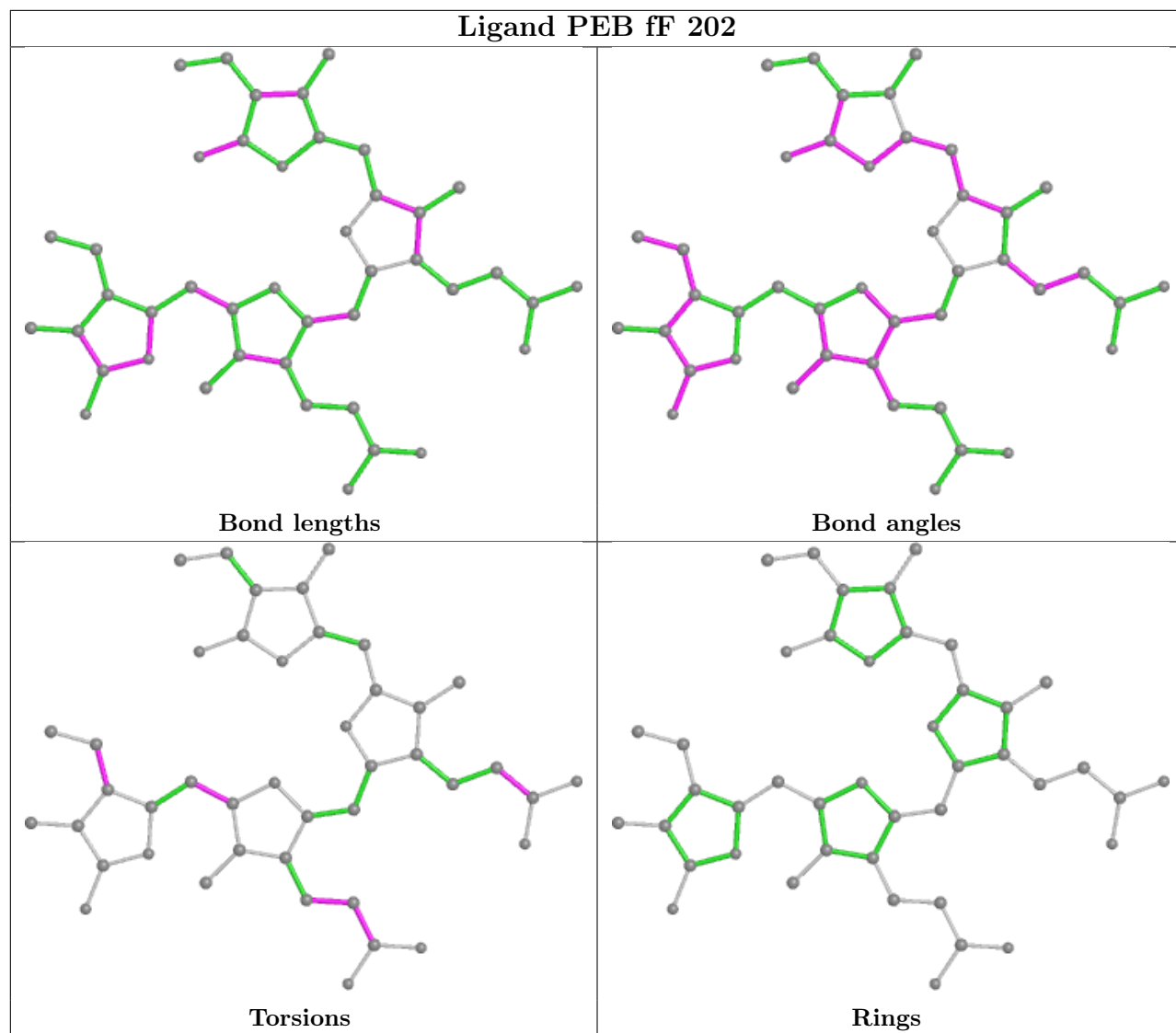
Bond angles



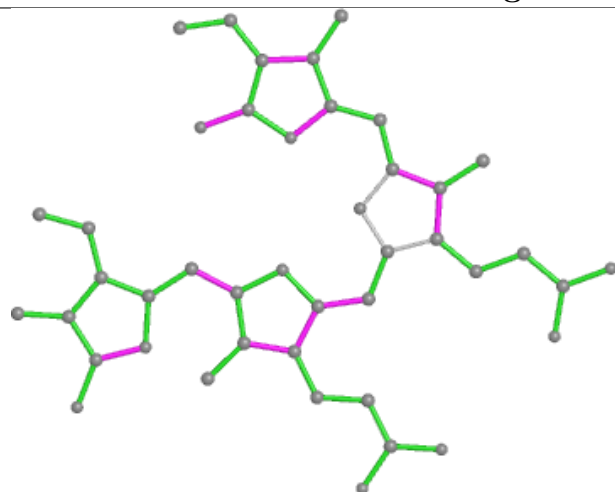
Torsions



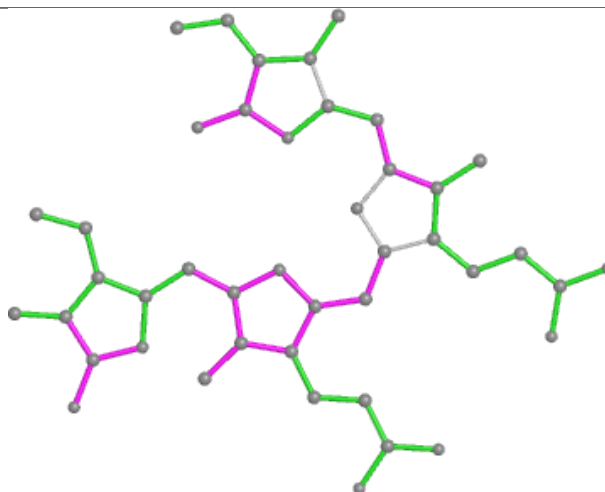
Rings



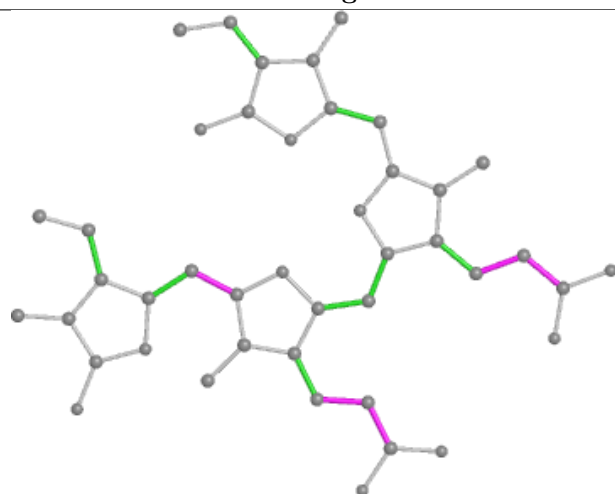
Ligand PEB CC 202



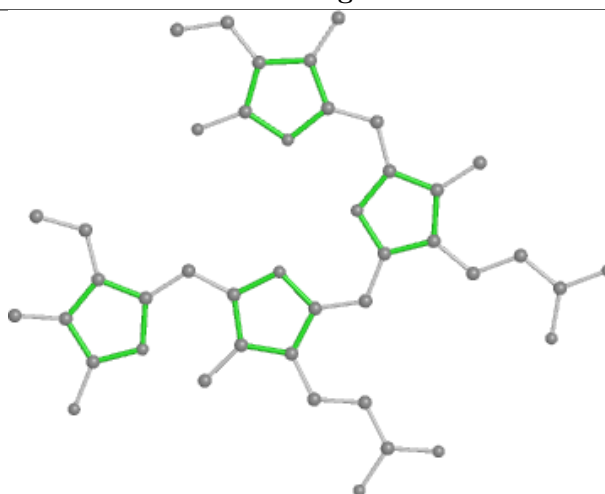
Bond lengths



Bond angles

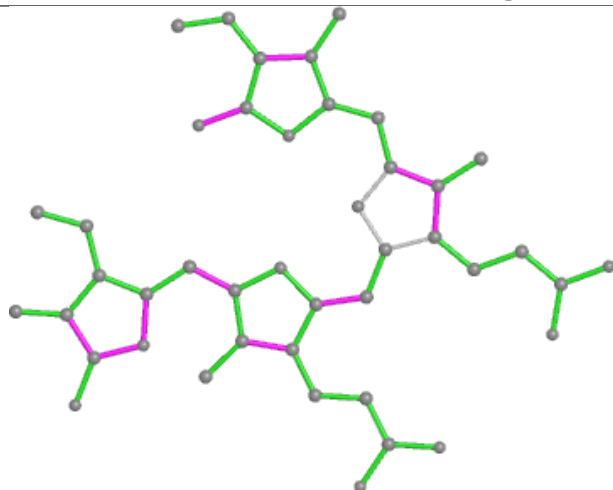


Torsions

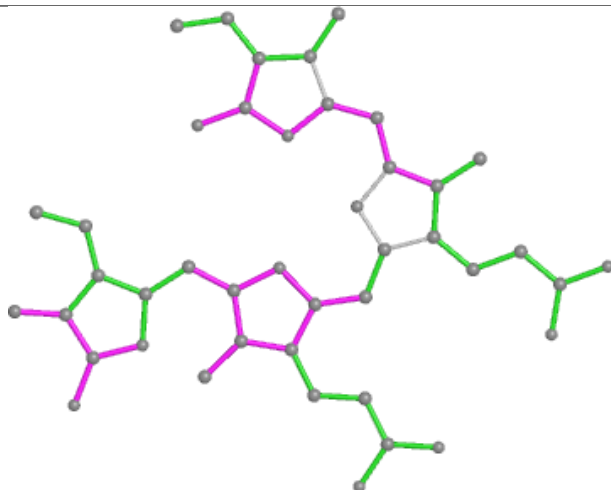


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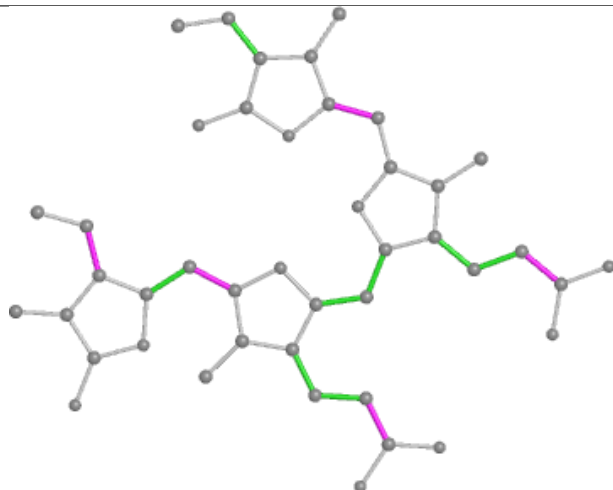
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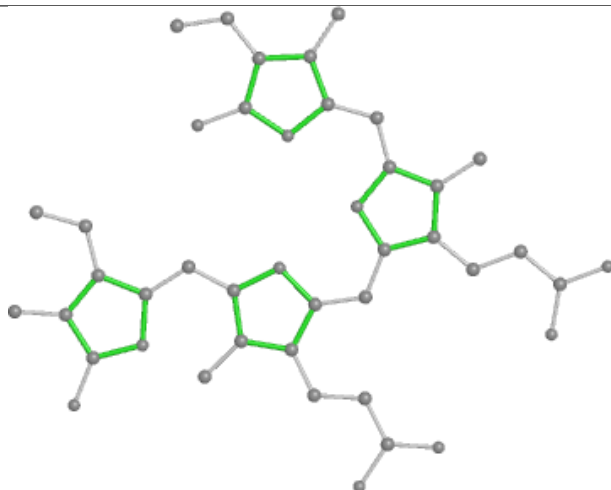
Bond lengths



Bond angles

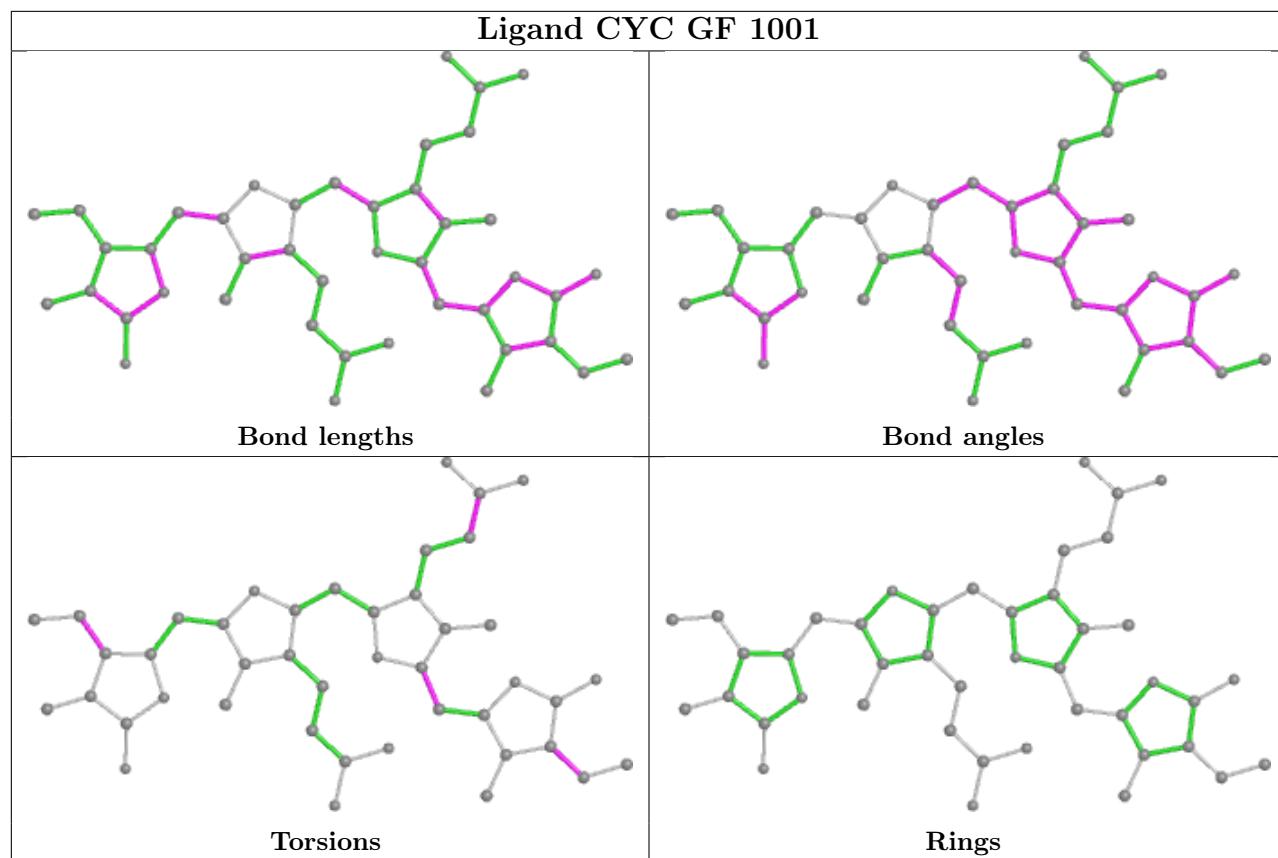


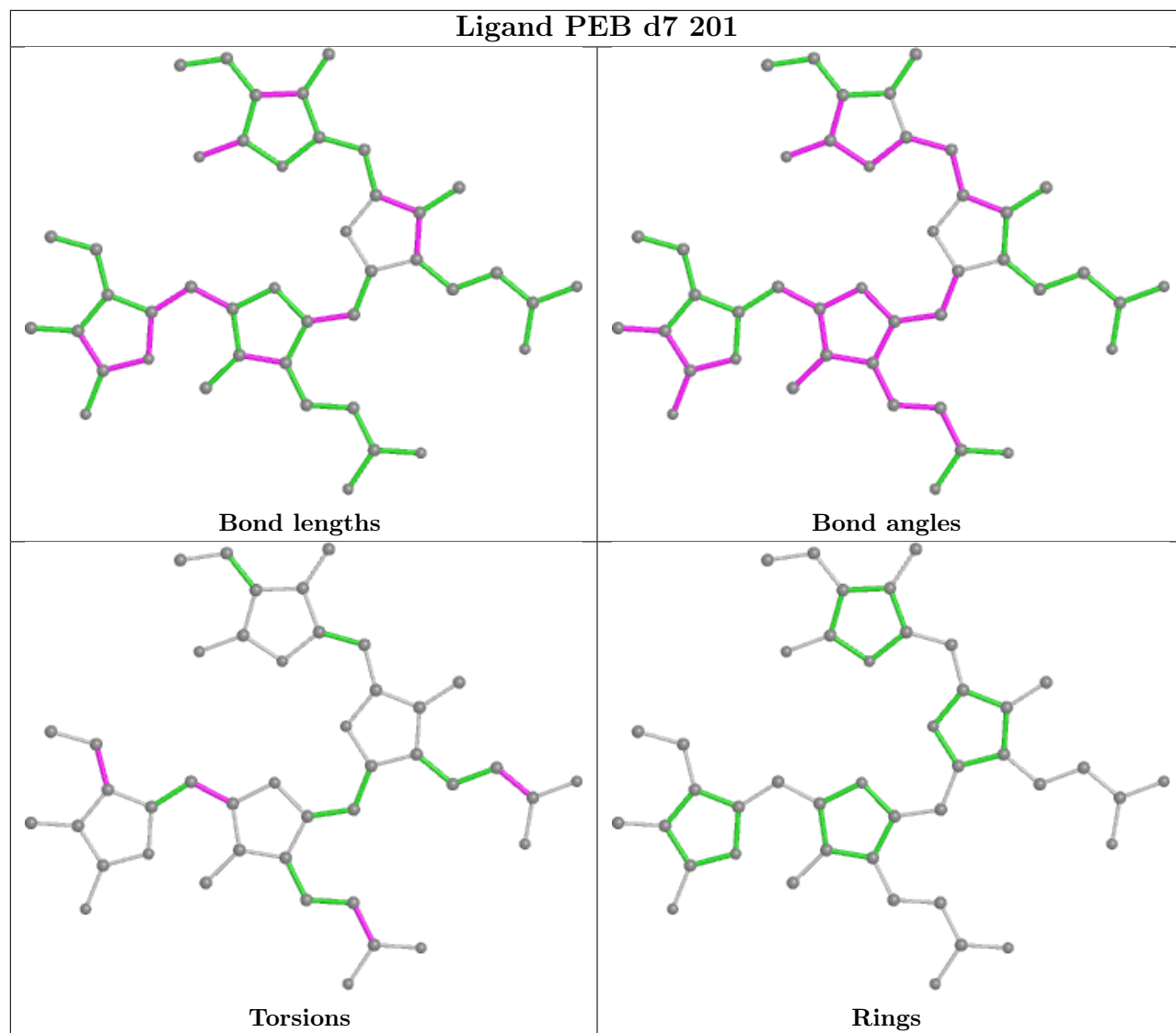
Torsions



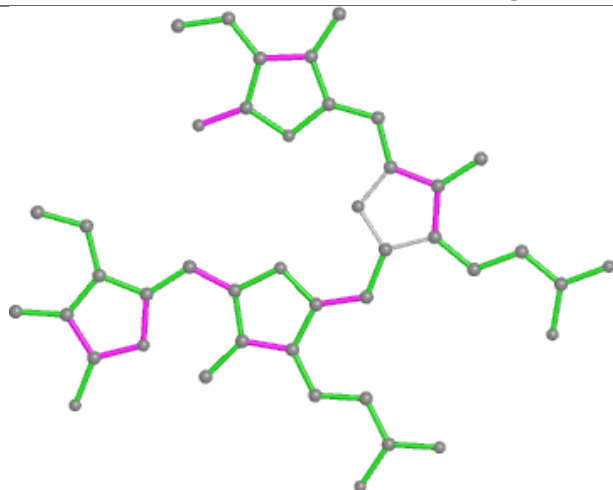
Rings

Ligand CYC GF 1001

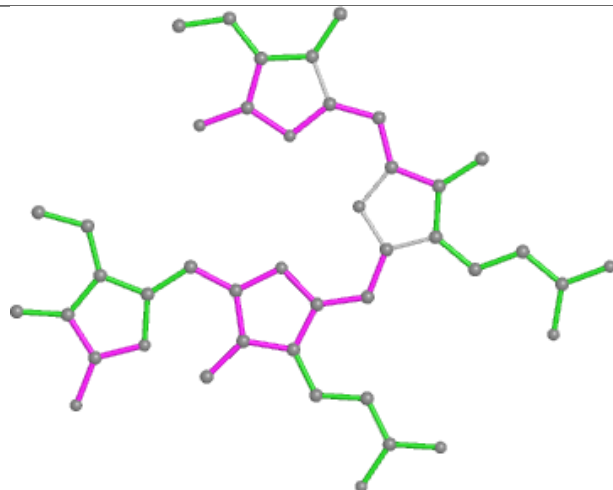




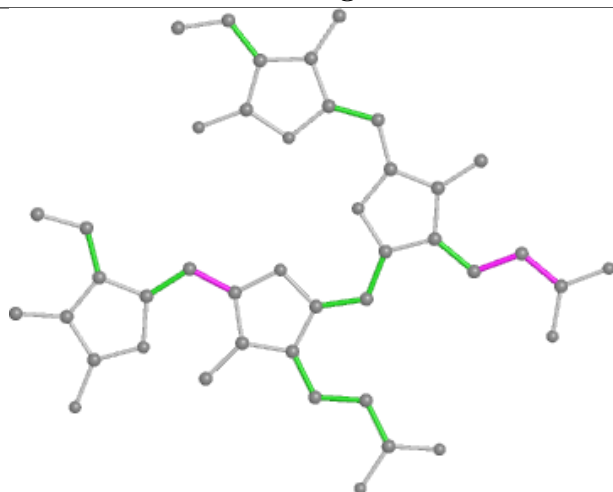
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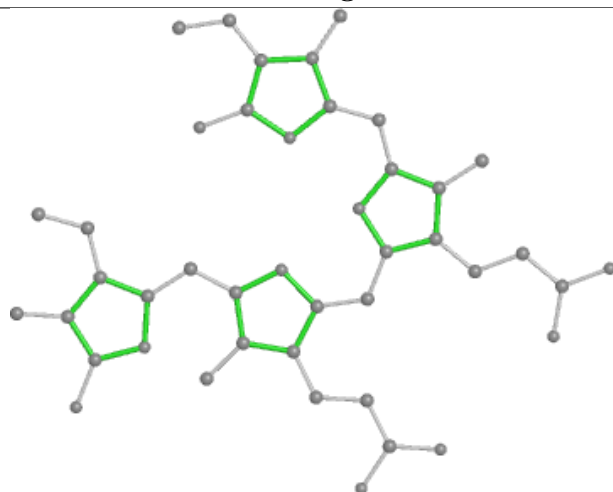
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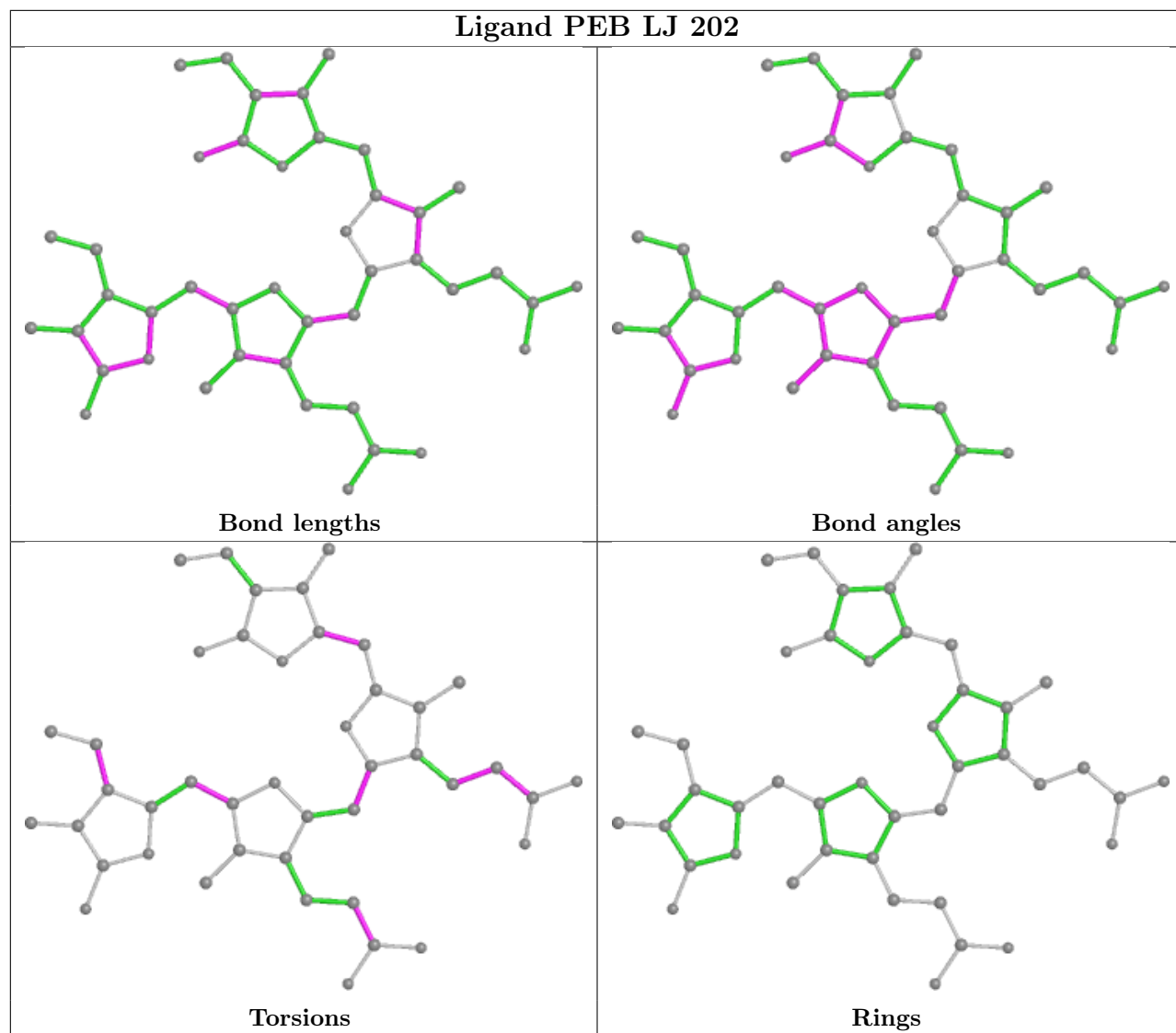
Bond angles



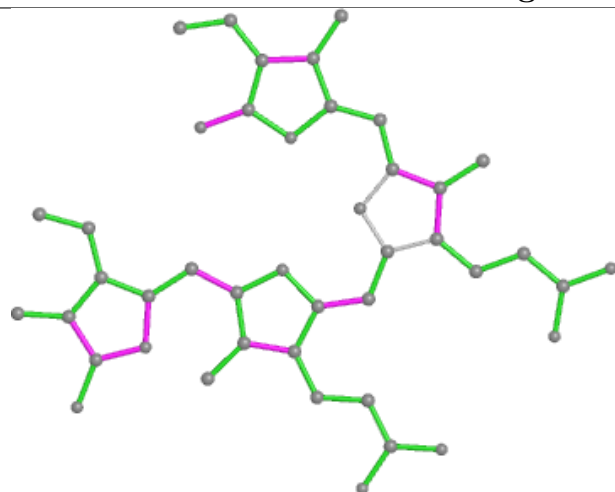
Torsions



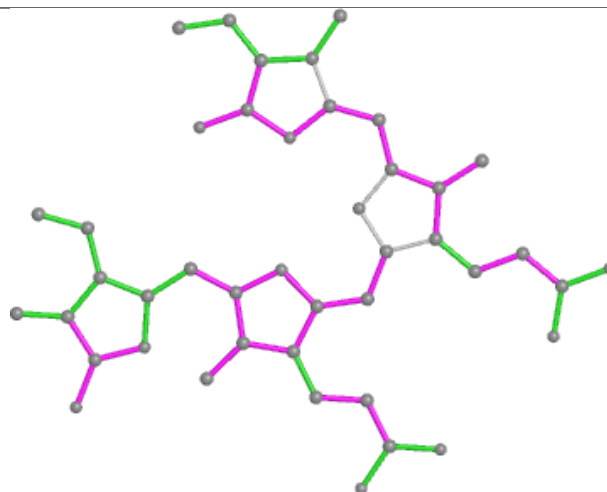
Rings



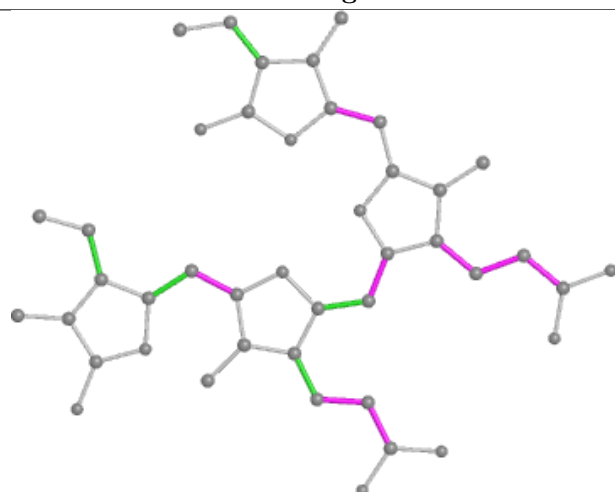
Ligand PEB il 203



Bond lengths



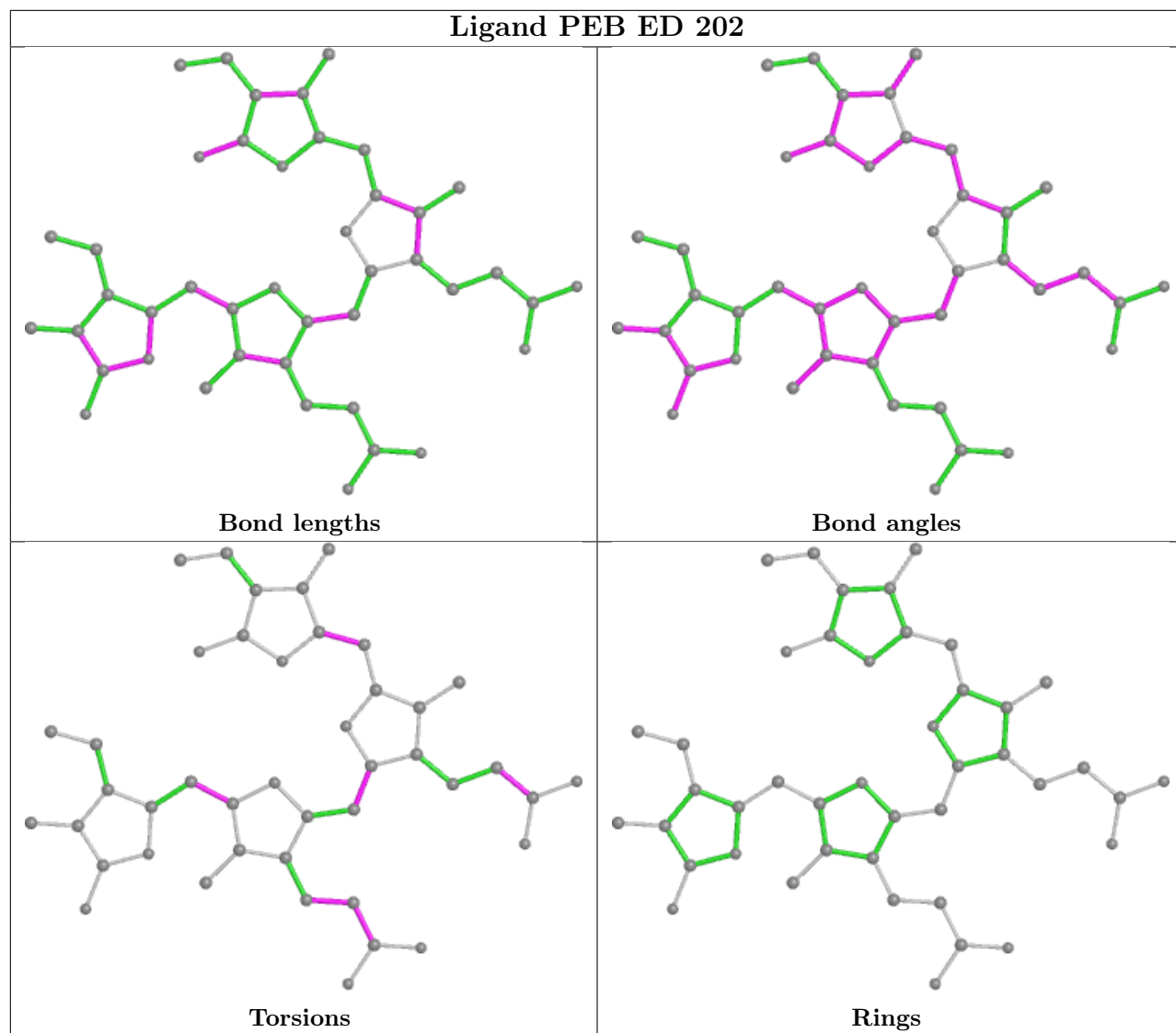
Bond angles

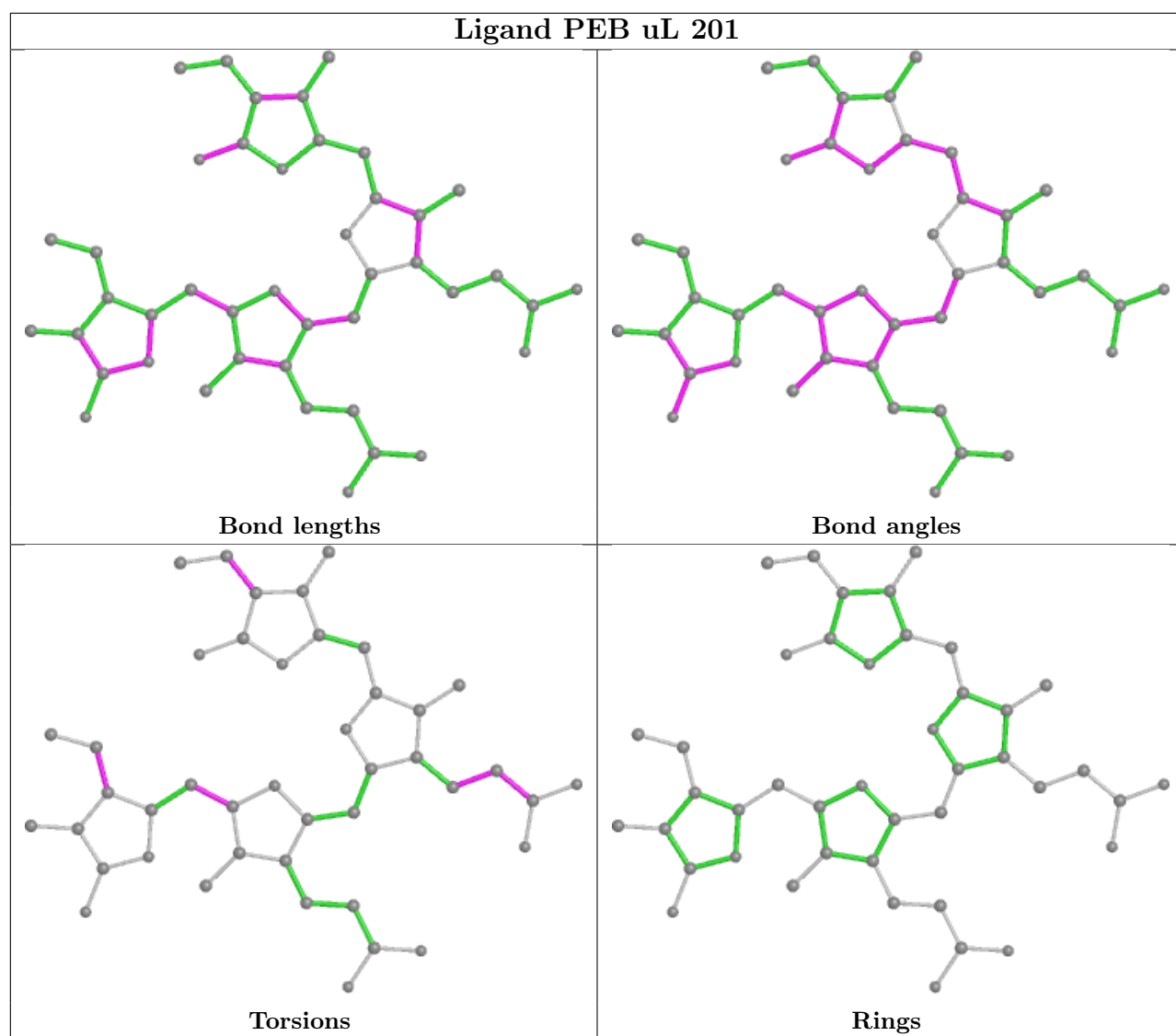


Torsions

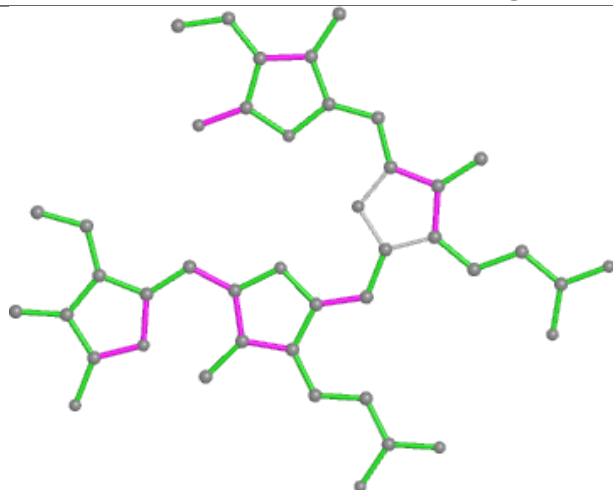


Rings

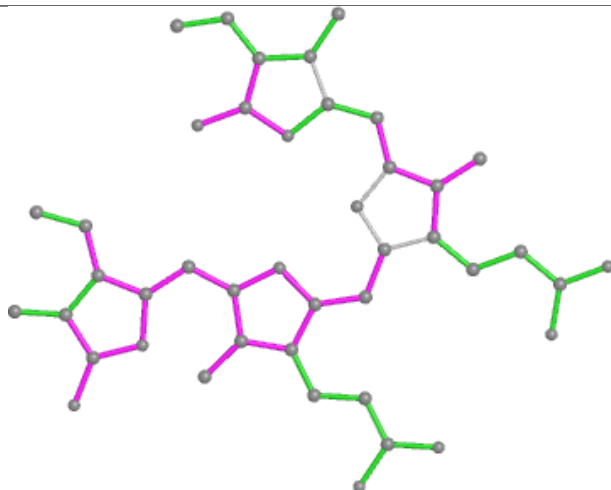




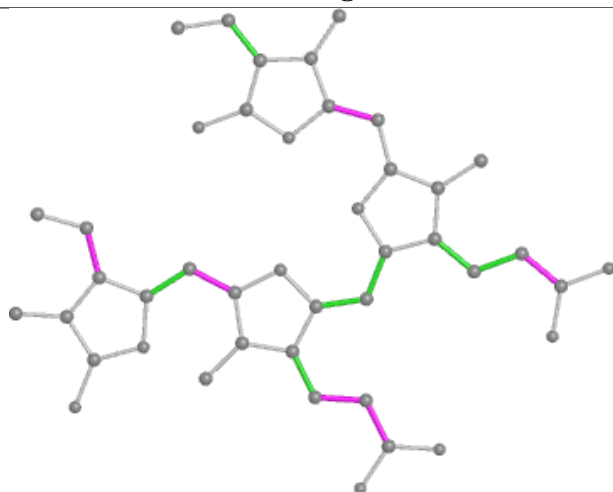
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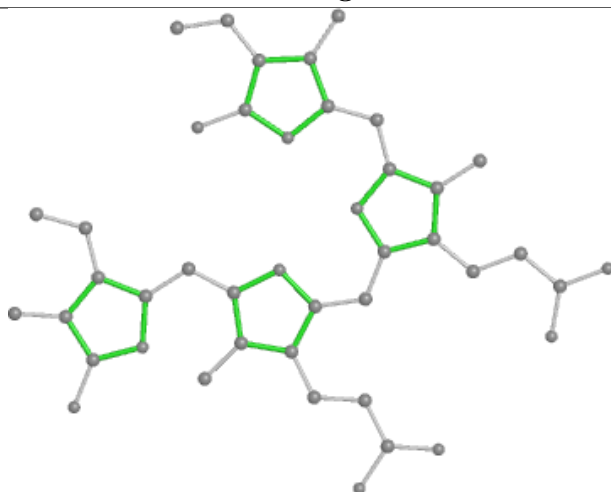
Bond lengths



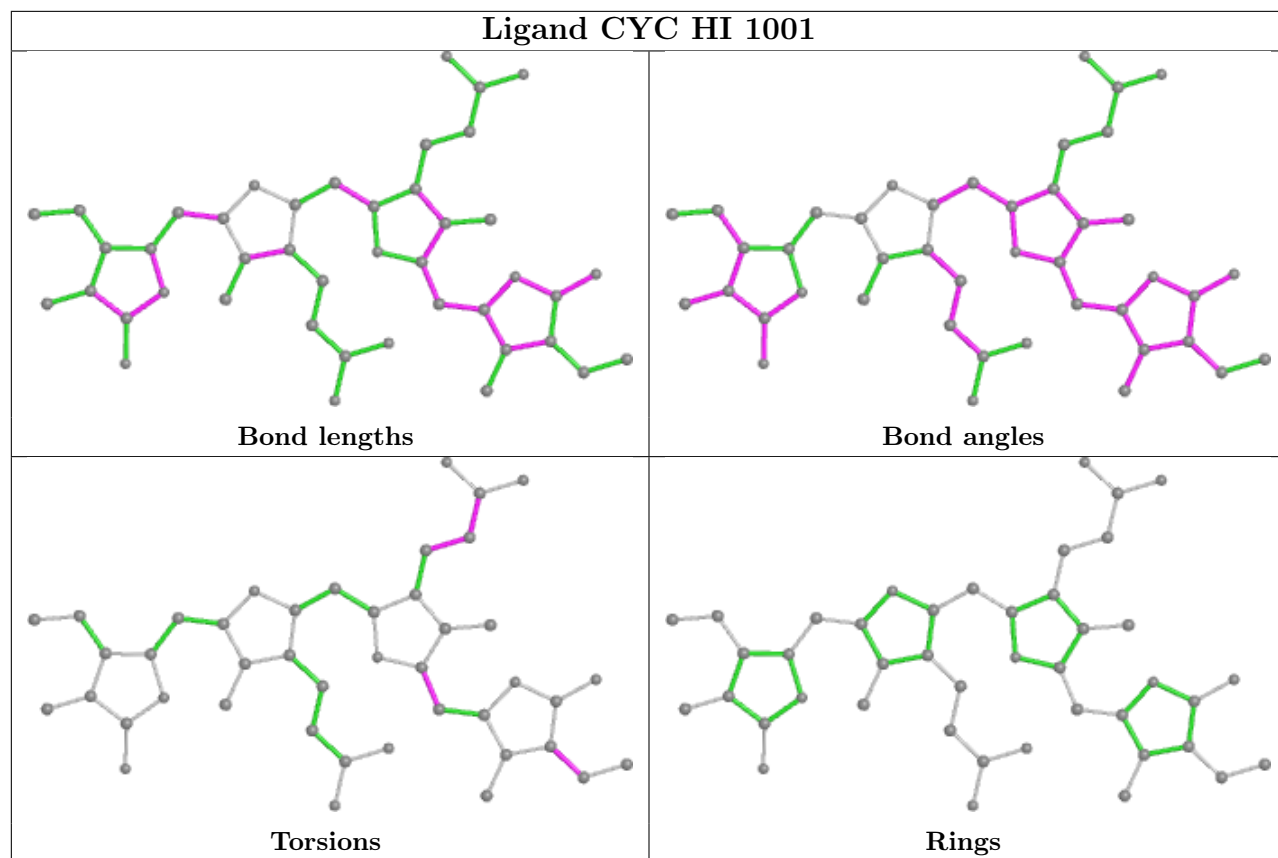
Bond angles



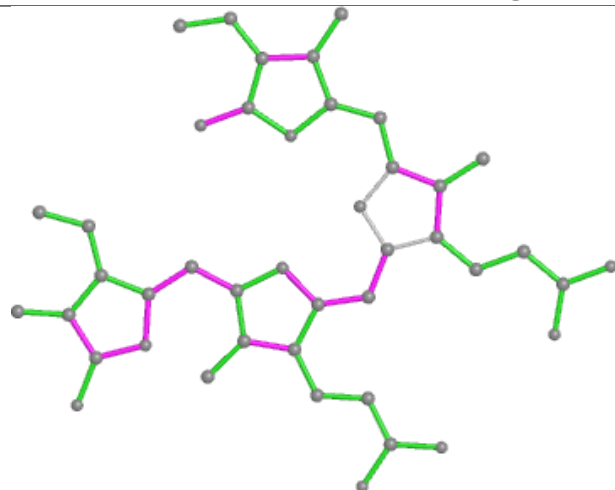
Torsions



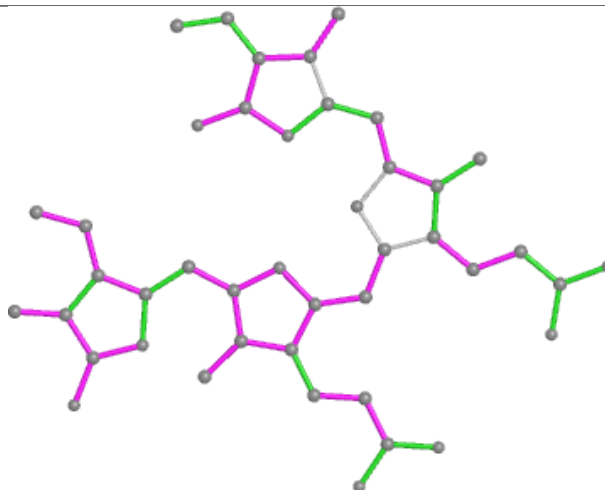
Rings



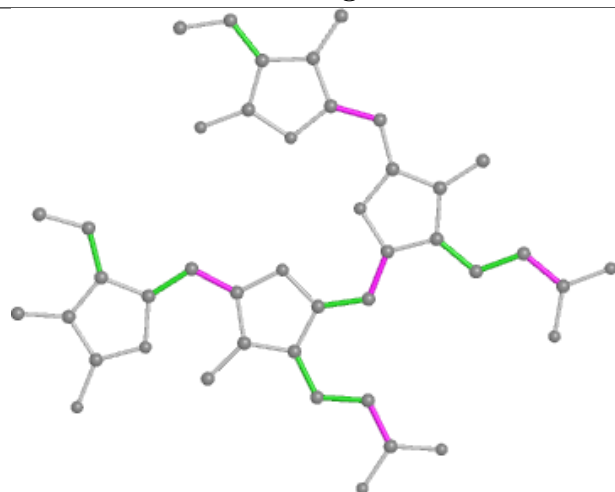
Ligand PEB D4 201



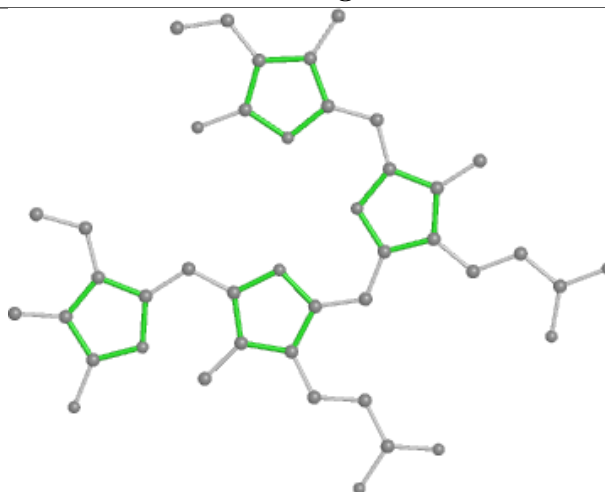
Bond lengths



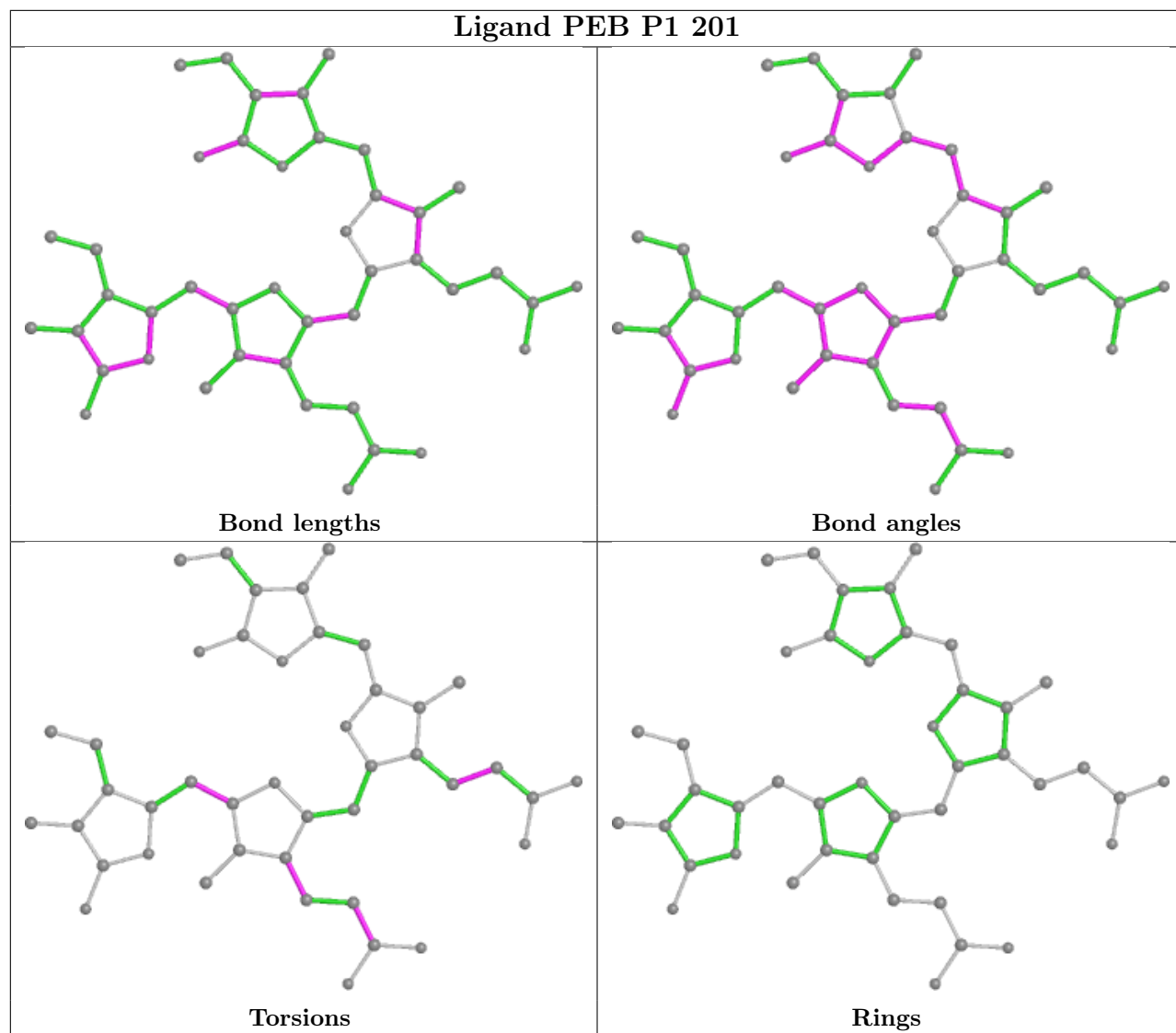
Bond angles



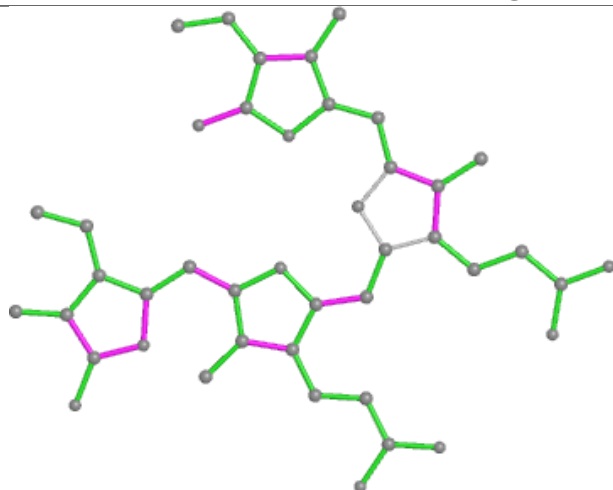
Torsions



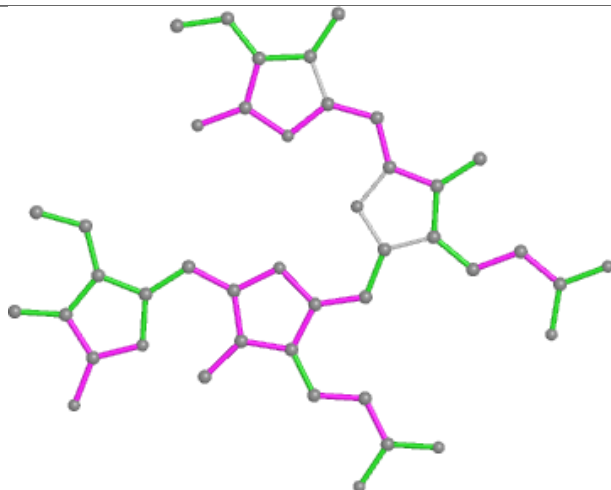
Rings



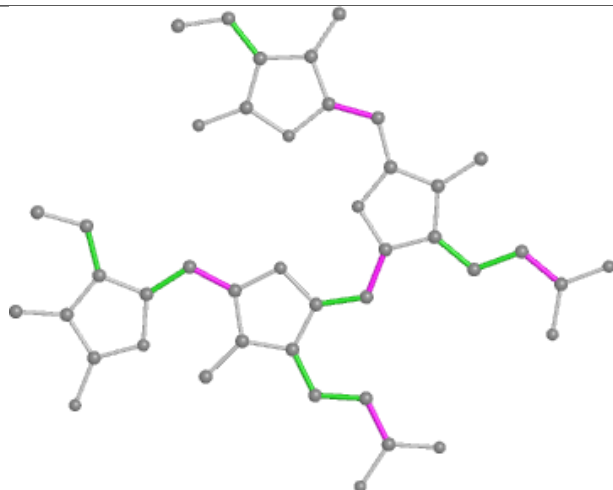
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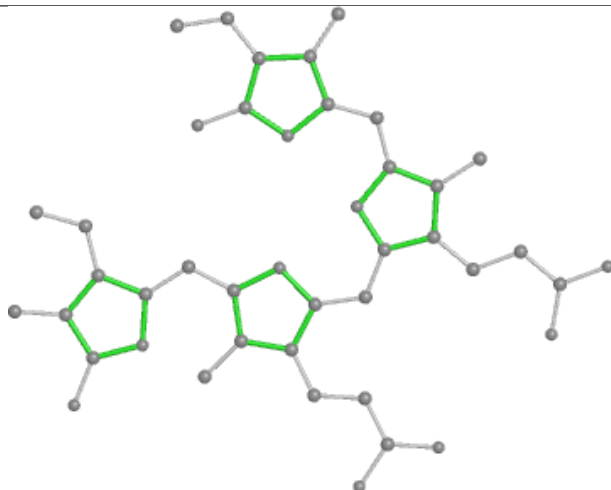
Bond lengths



Bond angles

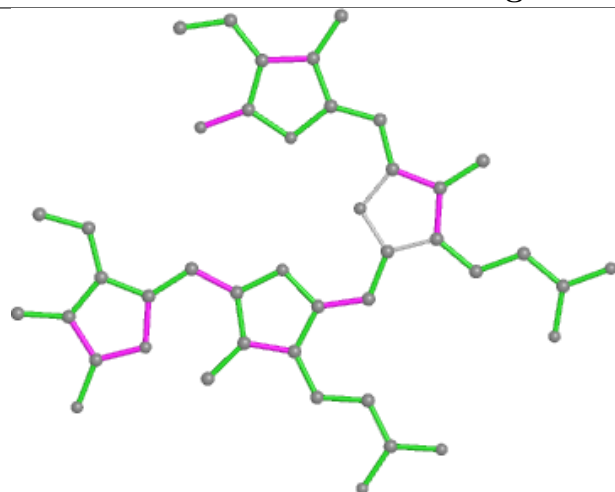


Torsions

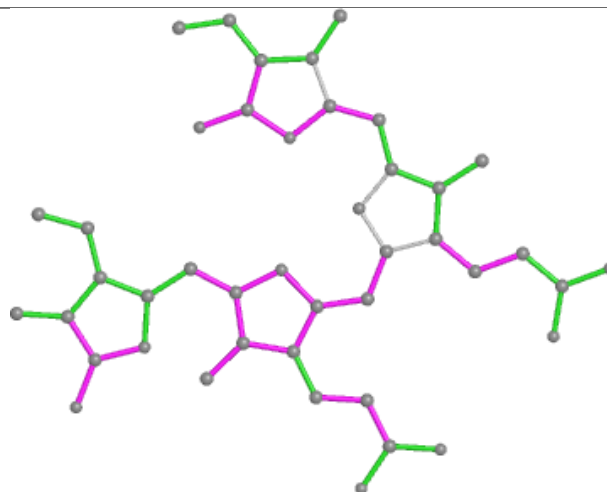


Rings

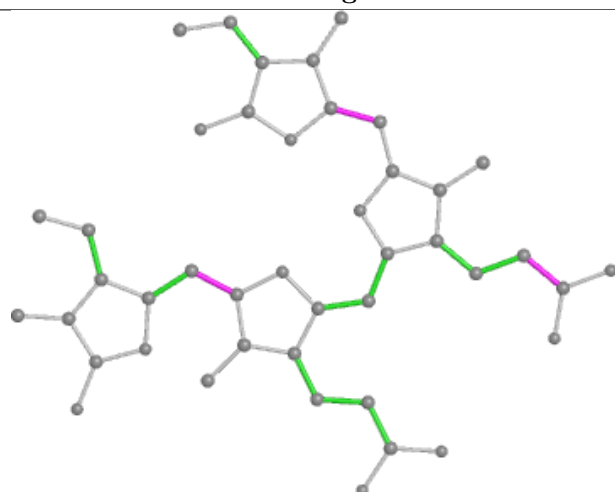
Ligand PEB FB 201



Bond lengths



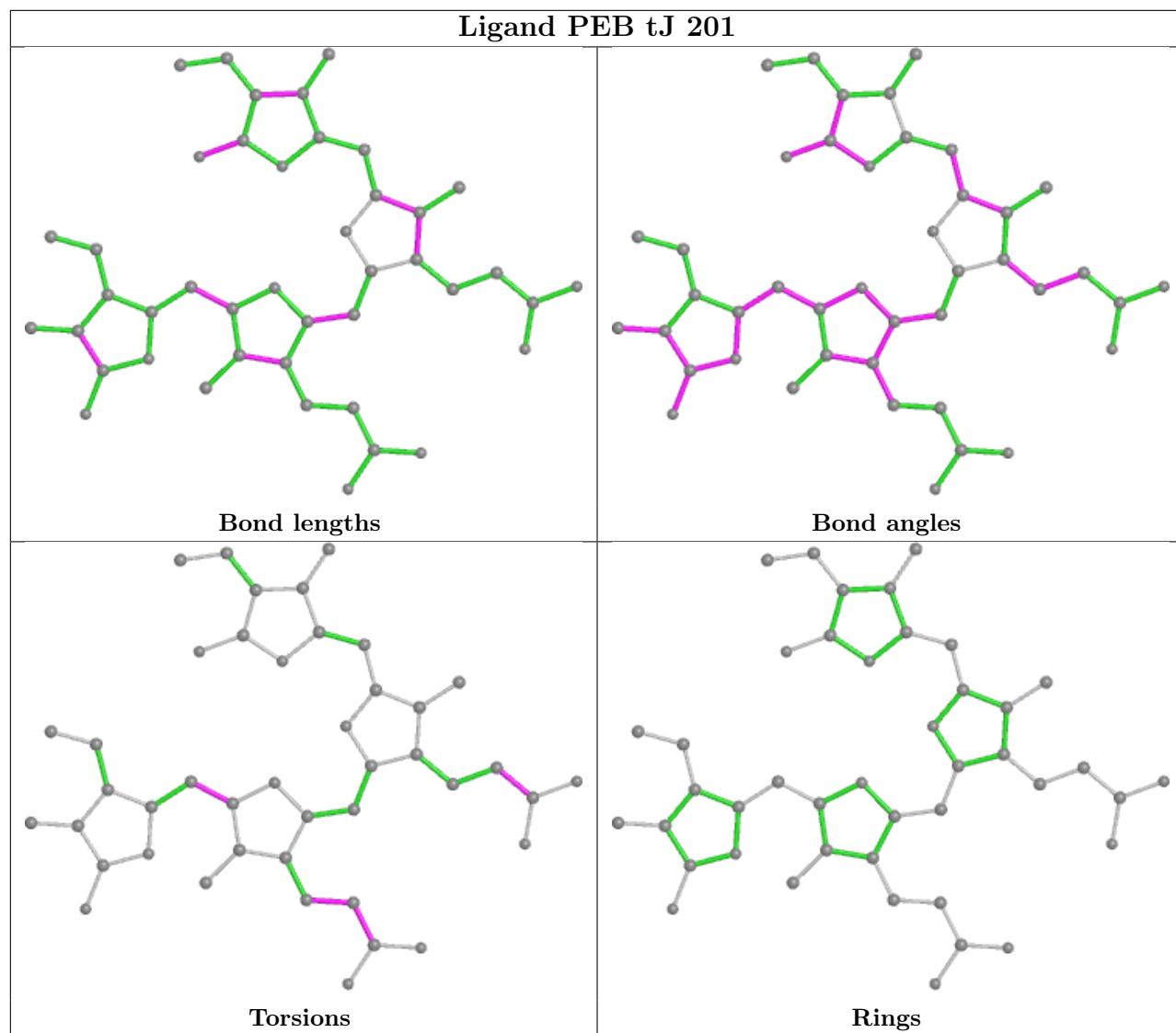
Bond angles

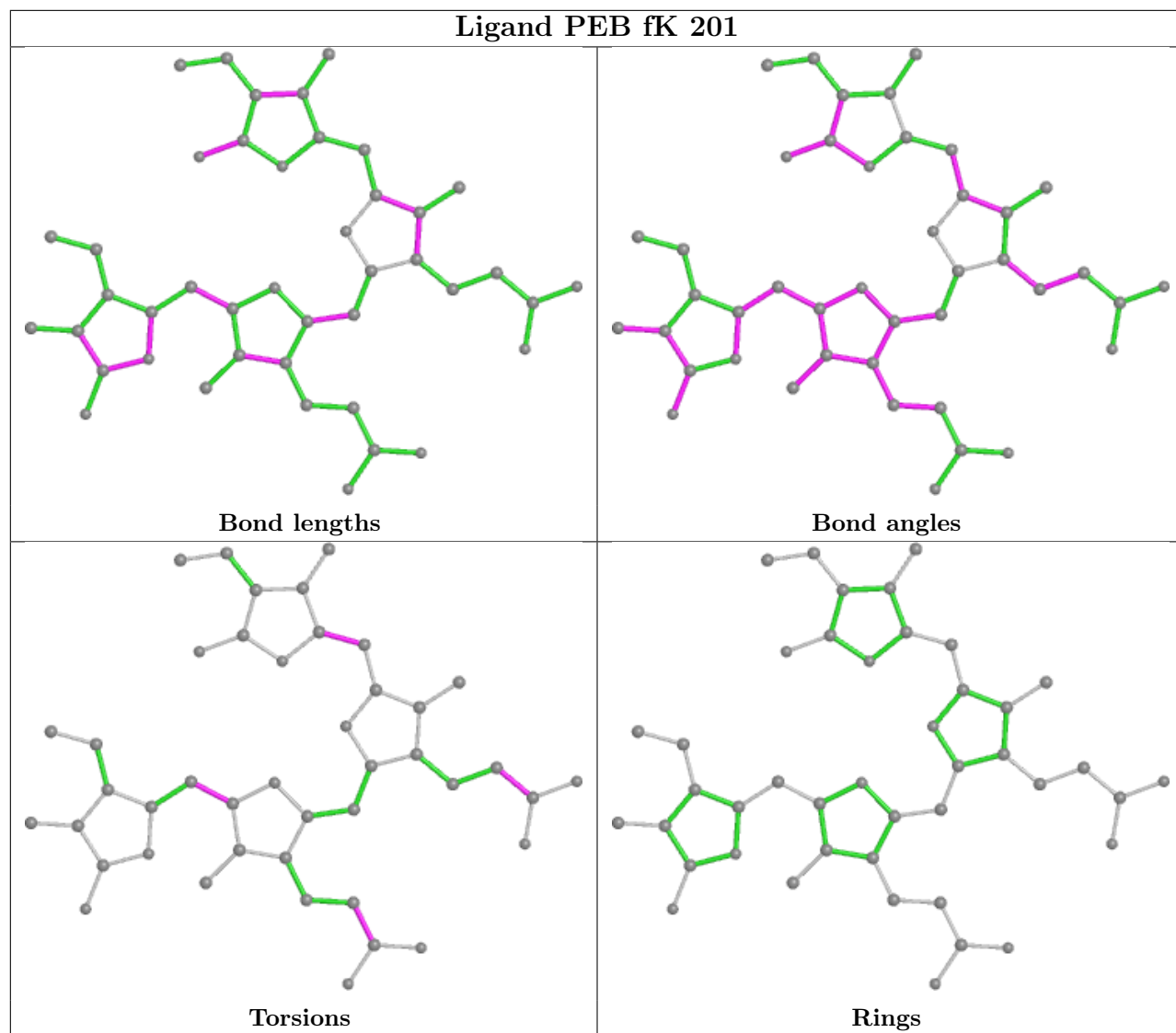


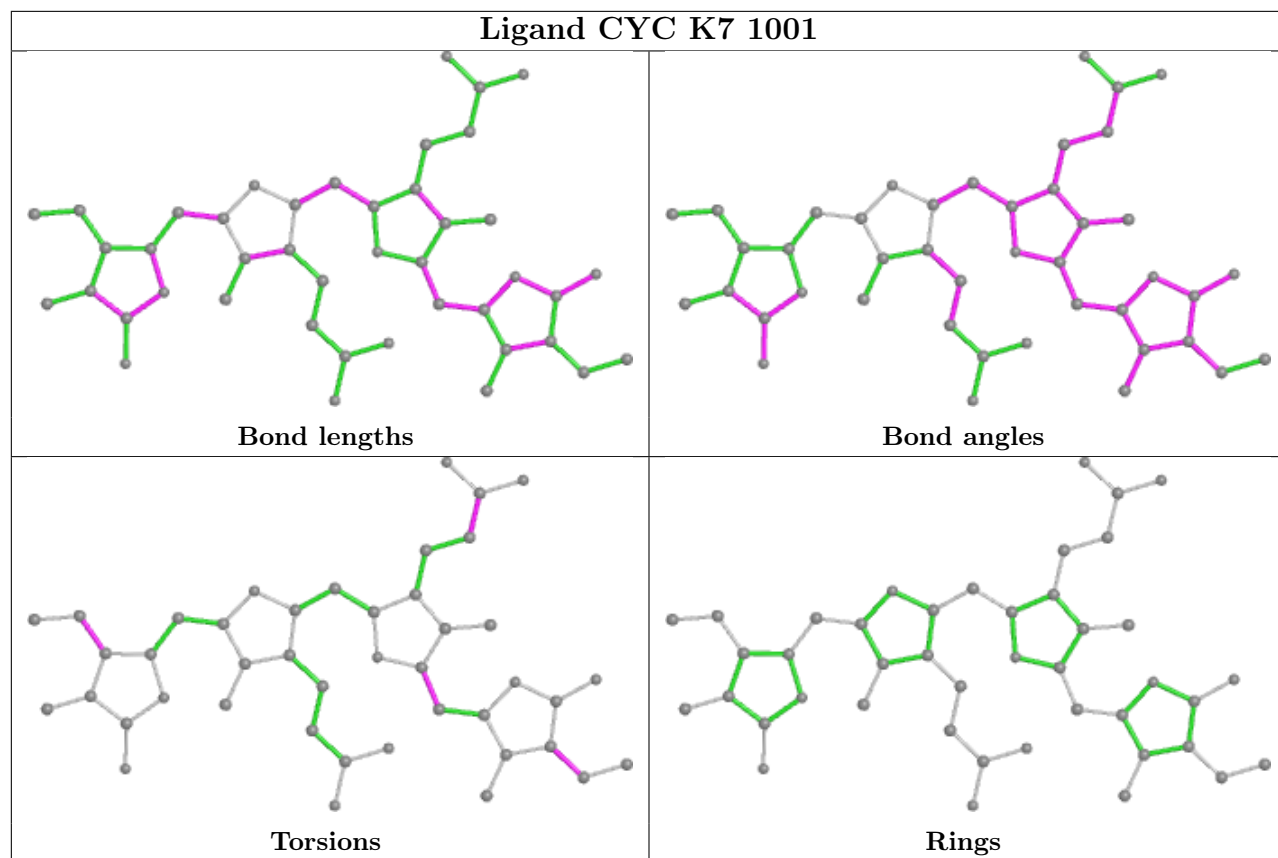
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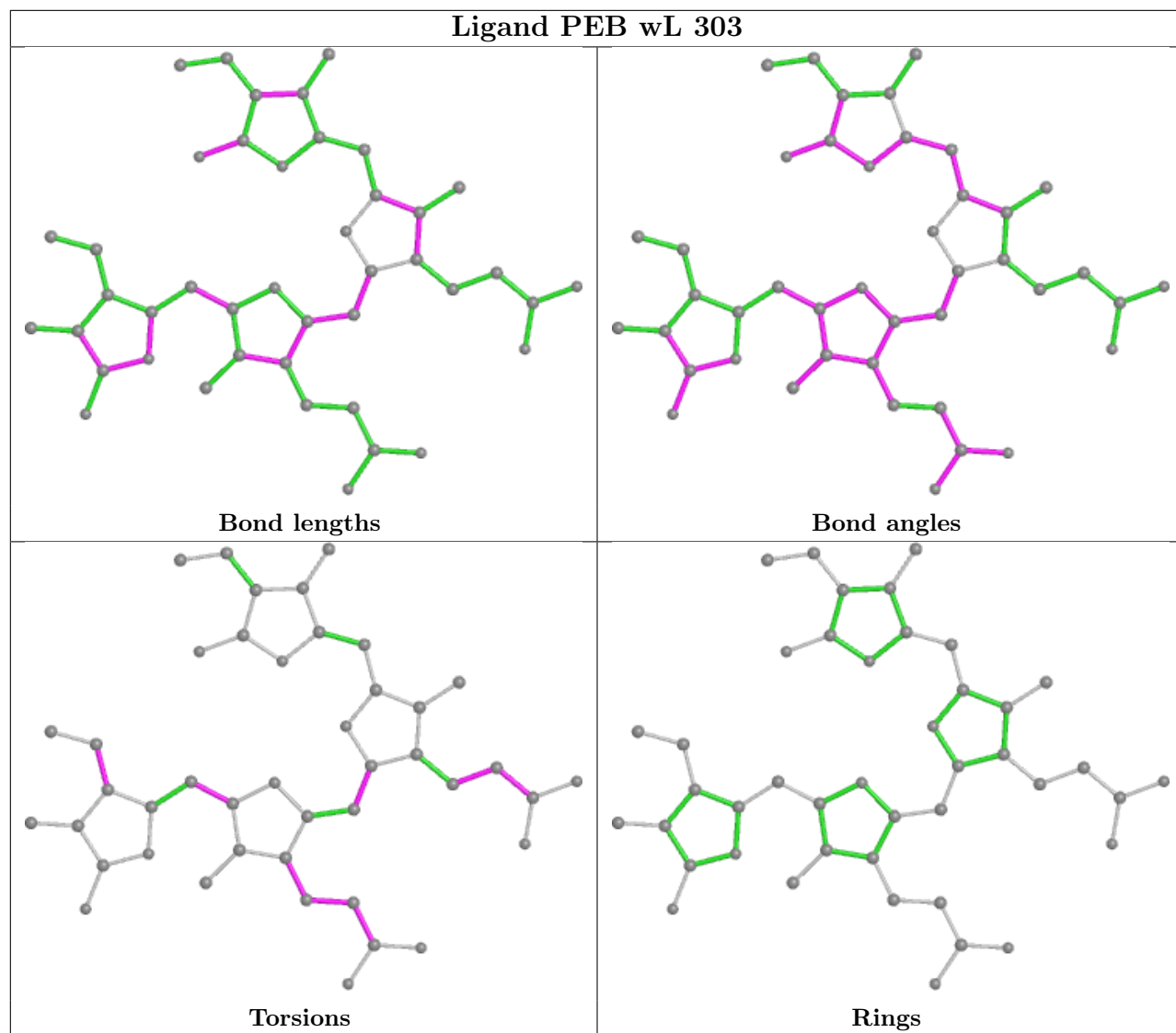


Rings

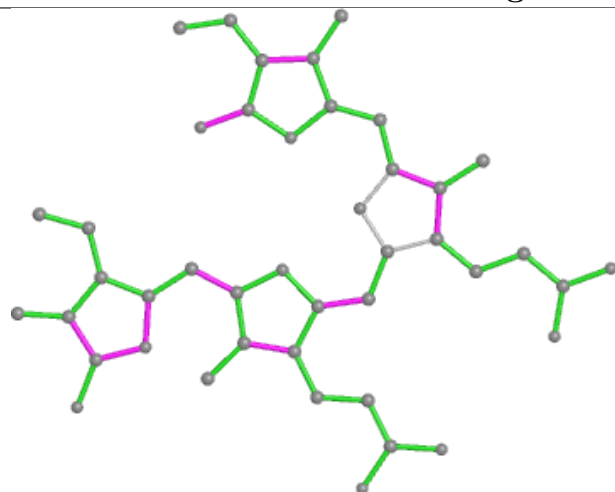




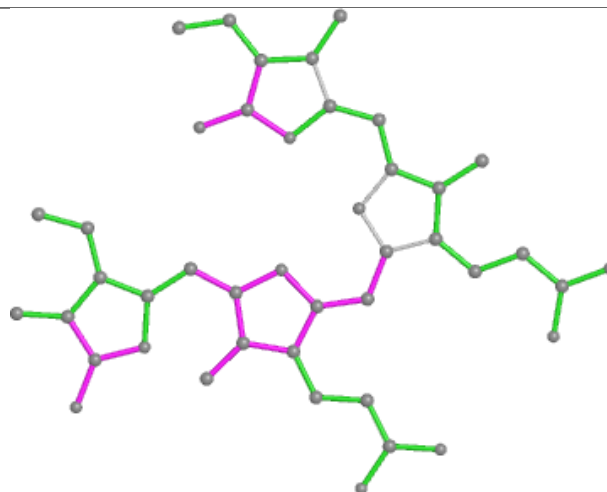




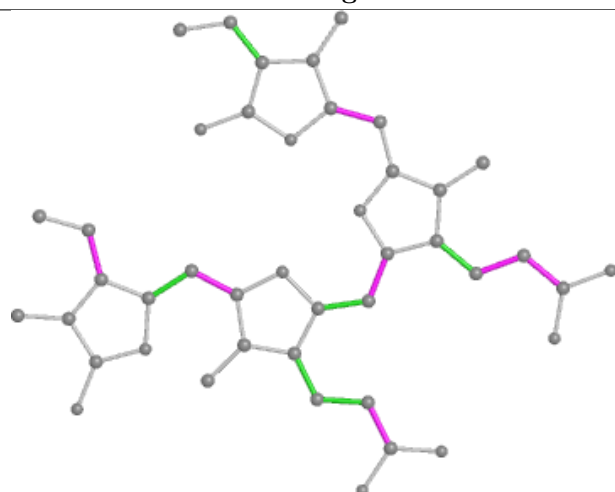
Ligand PEB DJ 202



Bond lengths



Bond angles

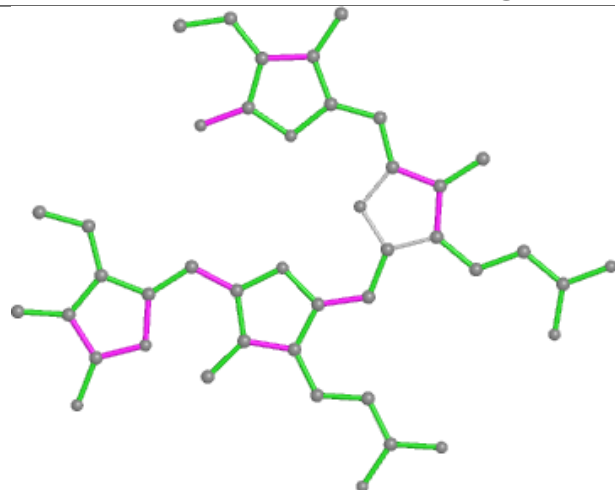


Torsions

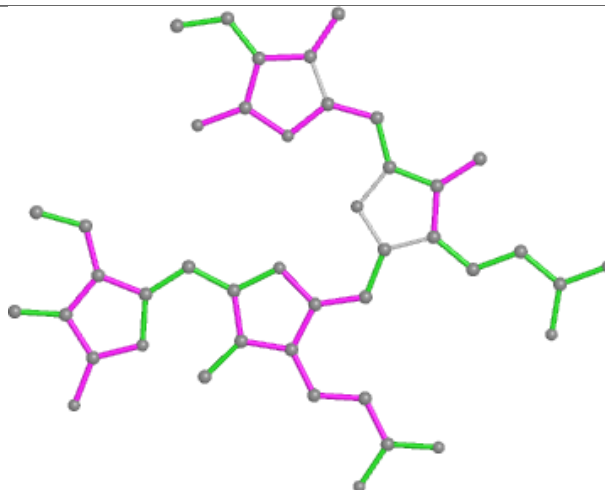


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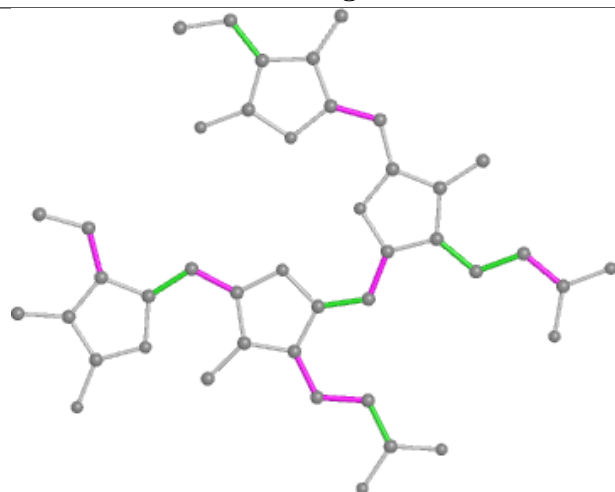
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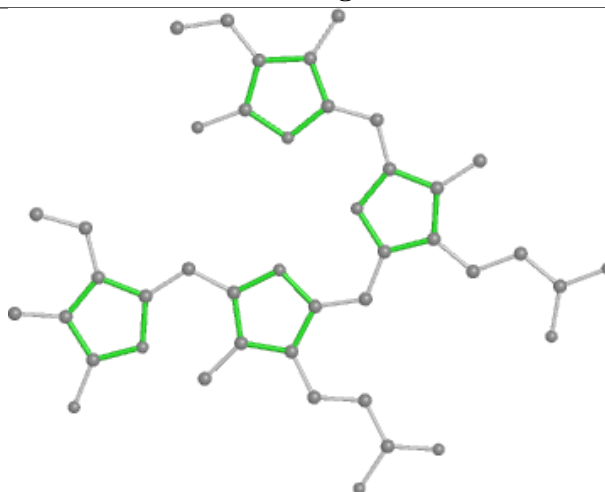
Bond lengths



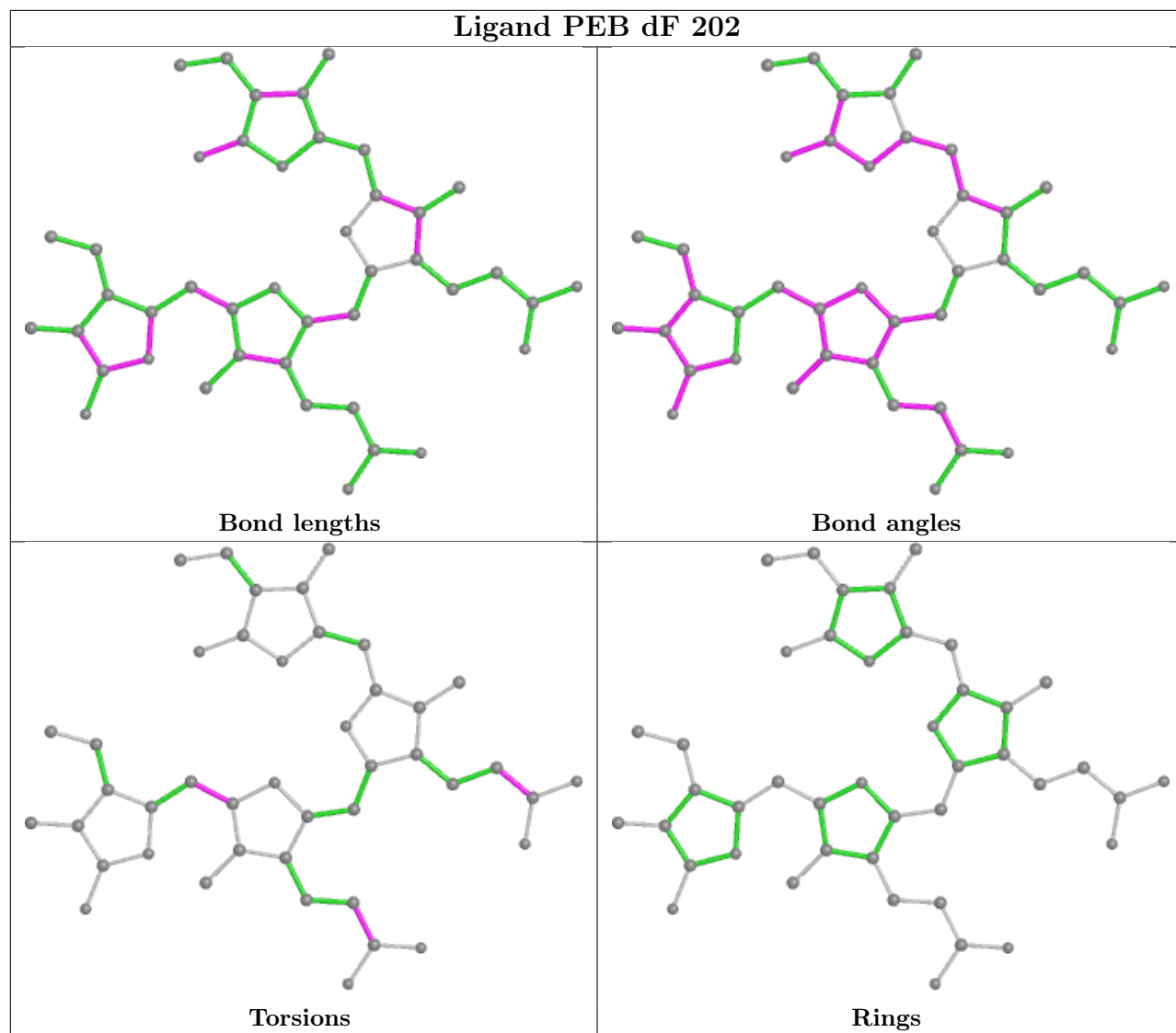
Bond angles



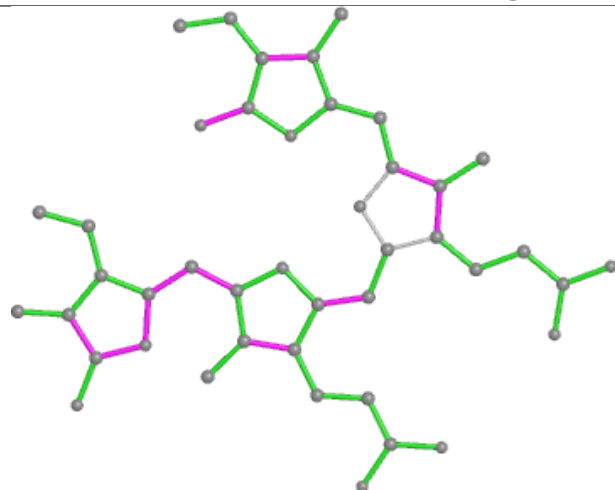
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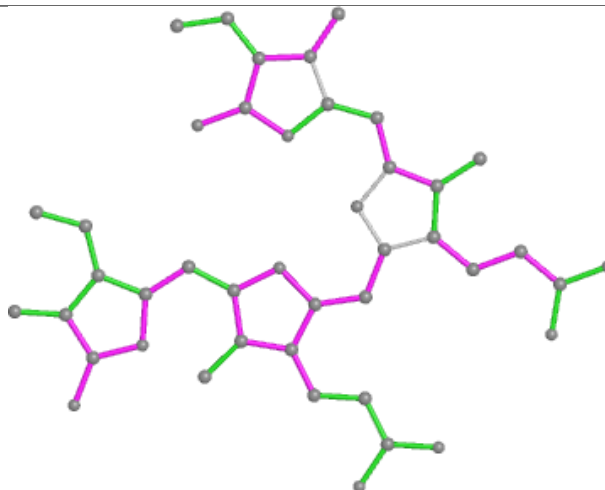
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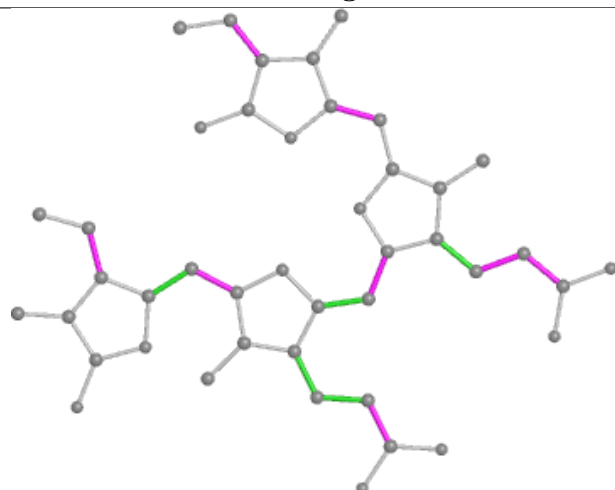
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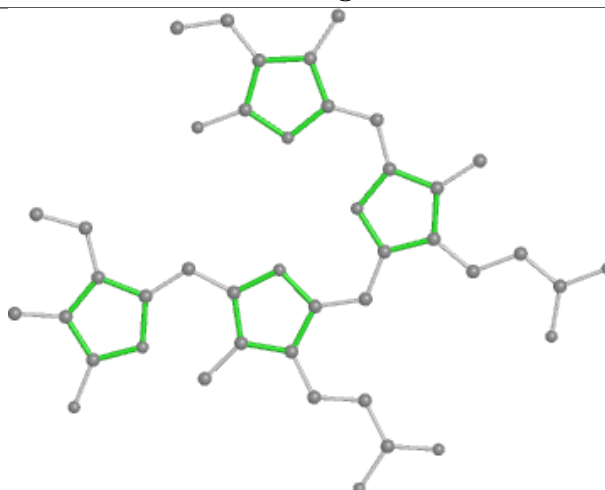
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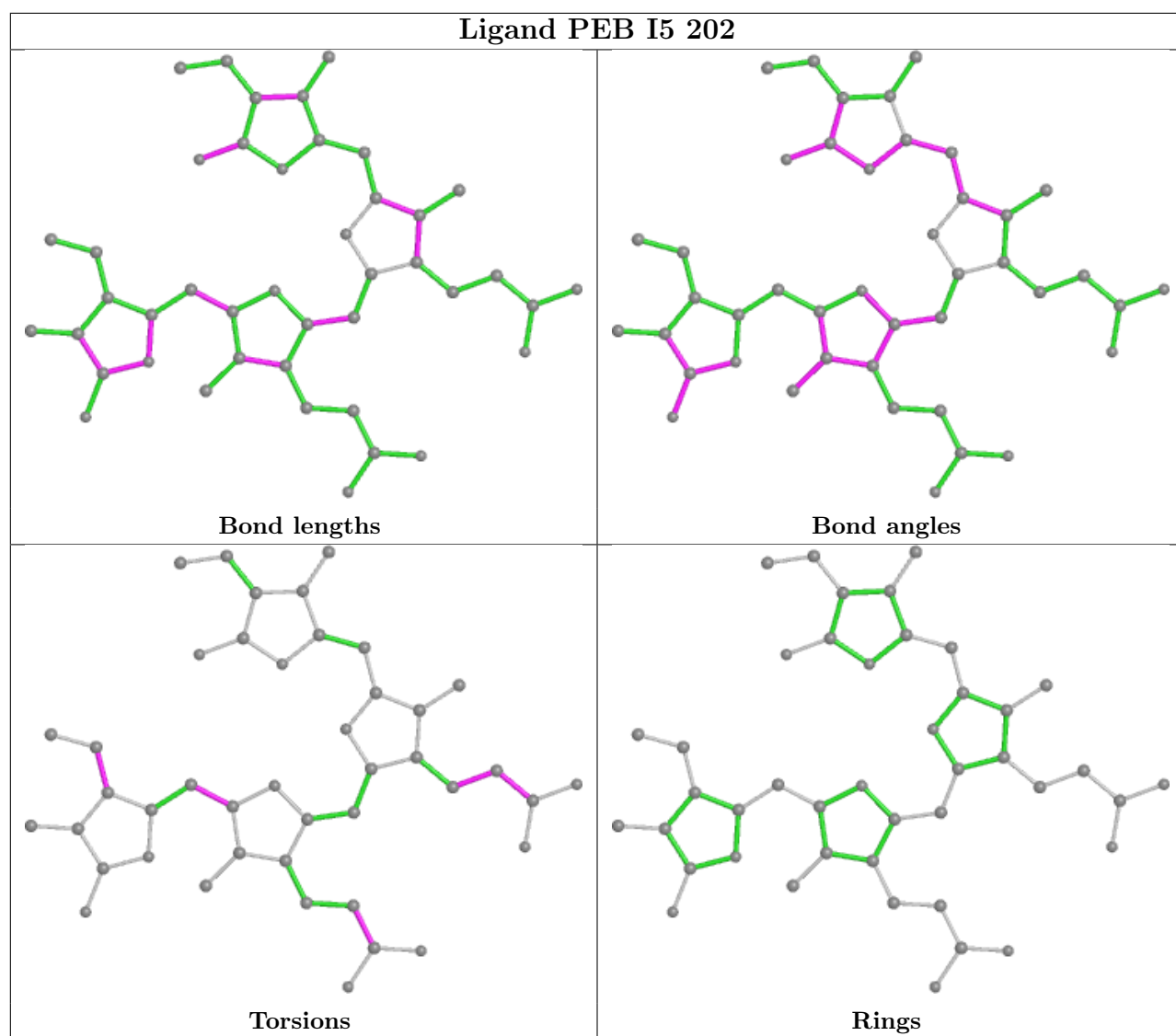
Bond angles



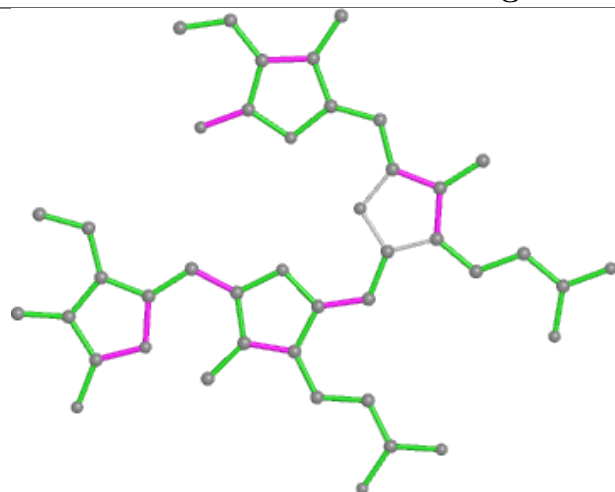
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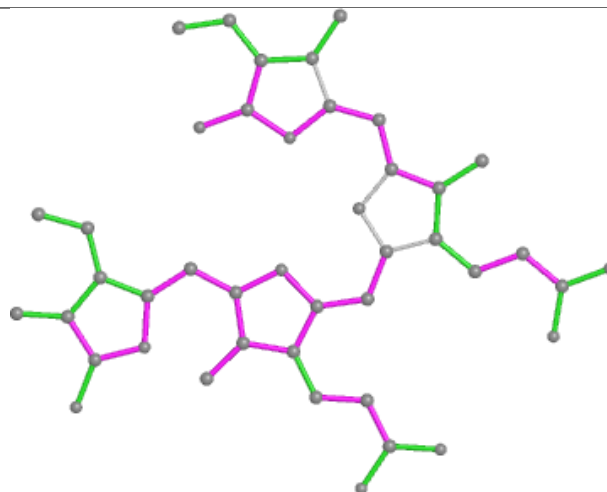
Rings



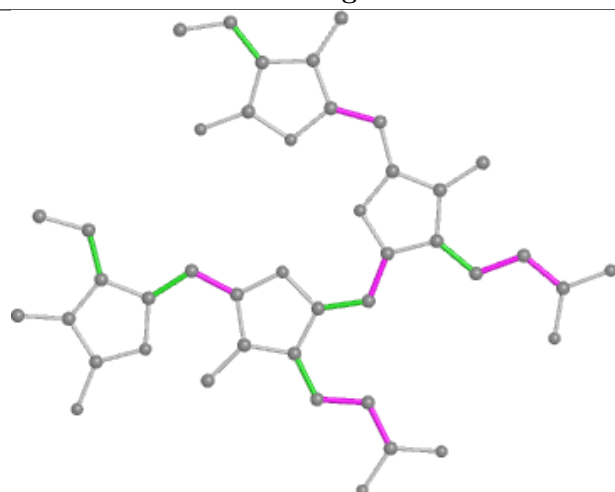
Ligand PEB HG 203



Bond lengths



Bond angles

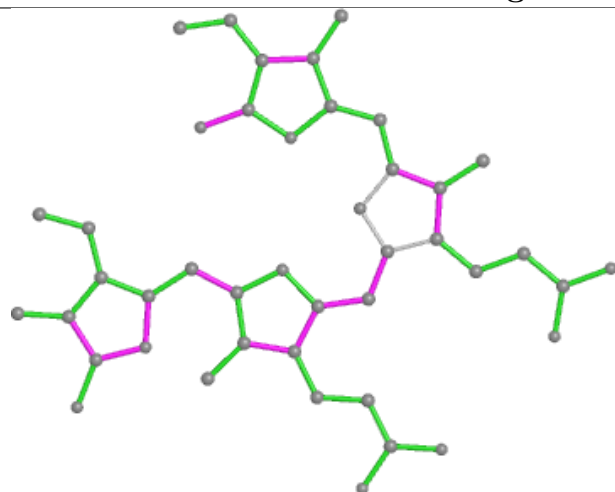


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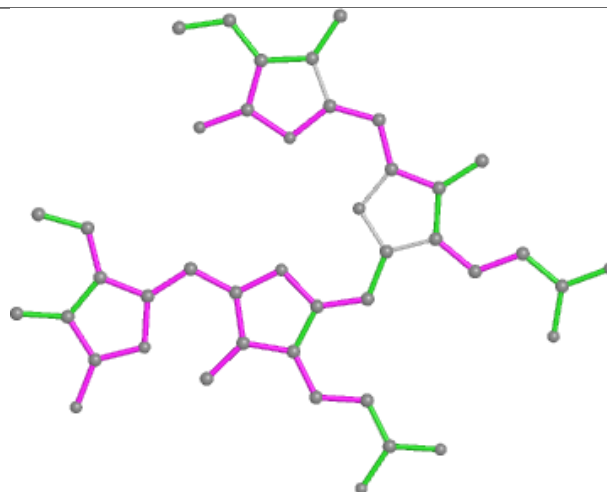


Rings

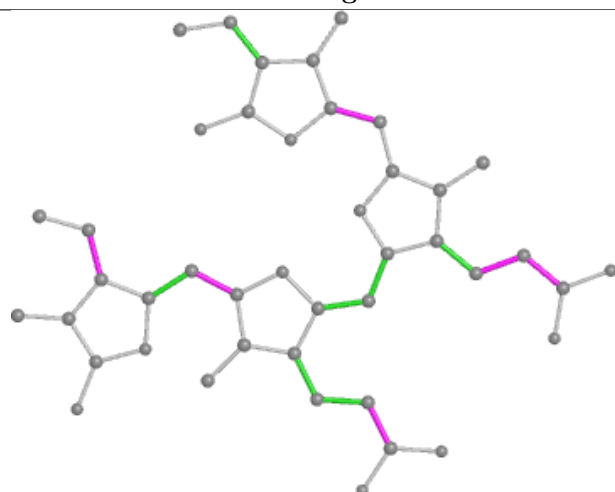
Ligand PEB U2 202



Bond lengths



Bond angles

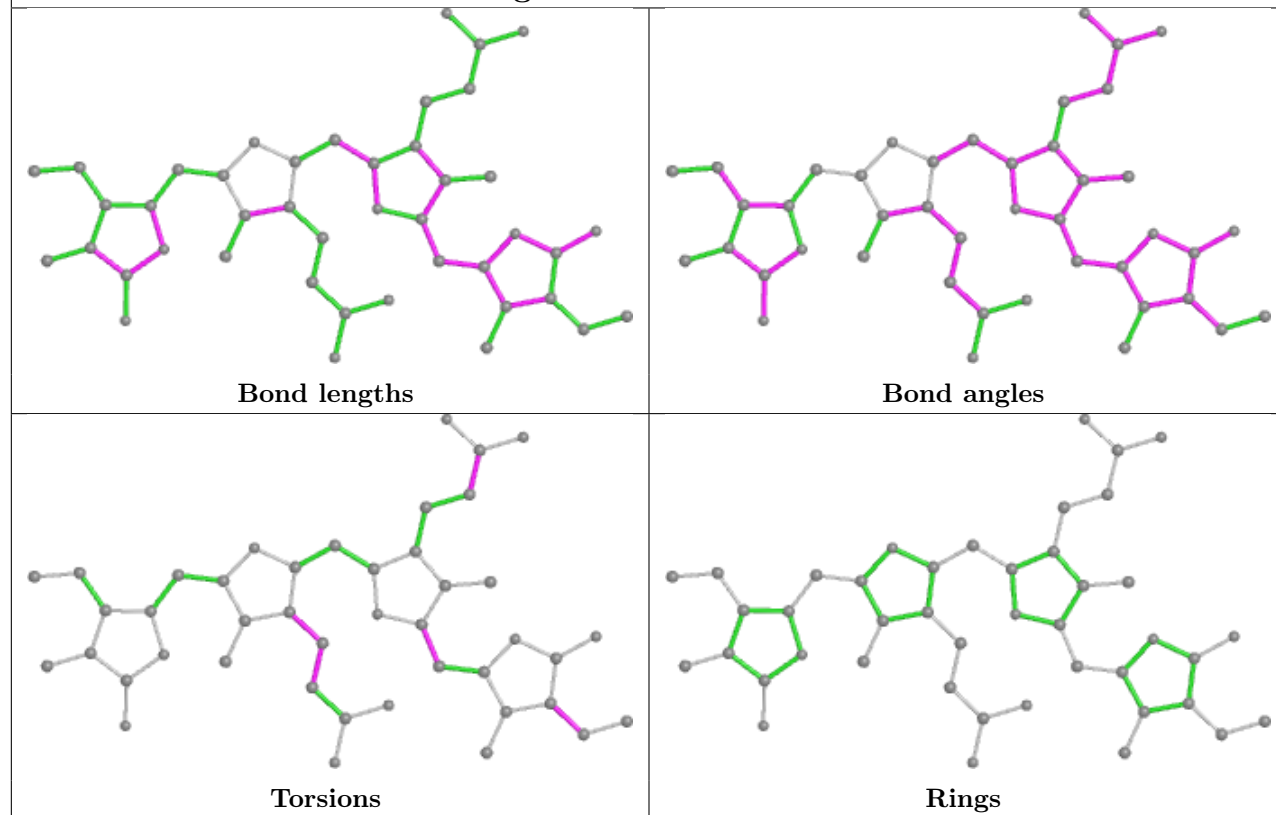


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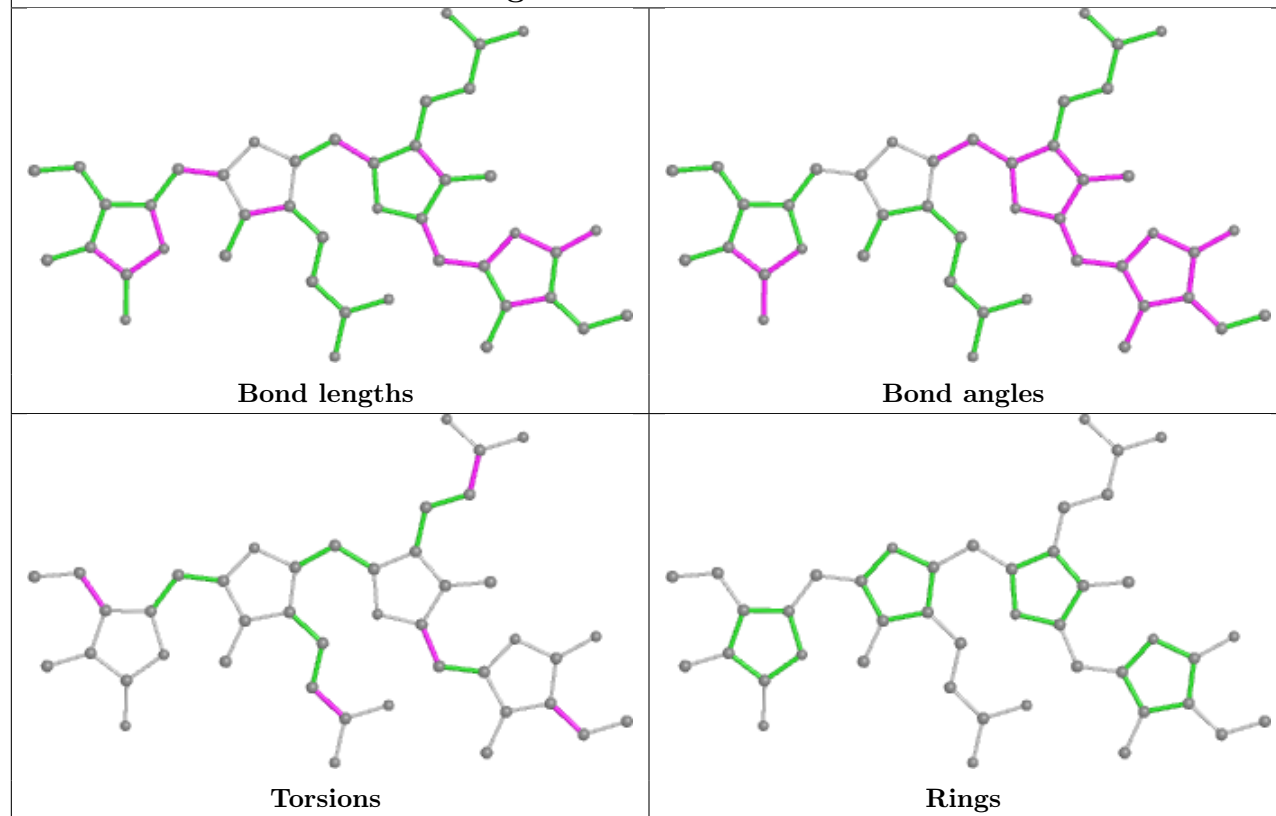


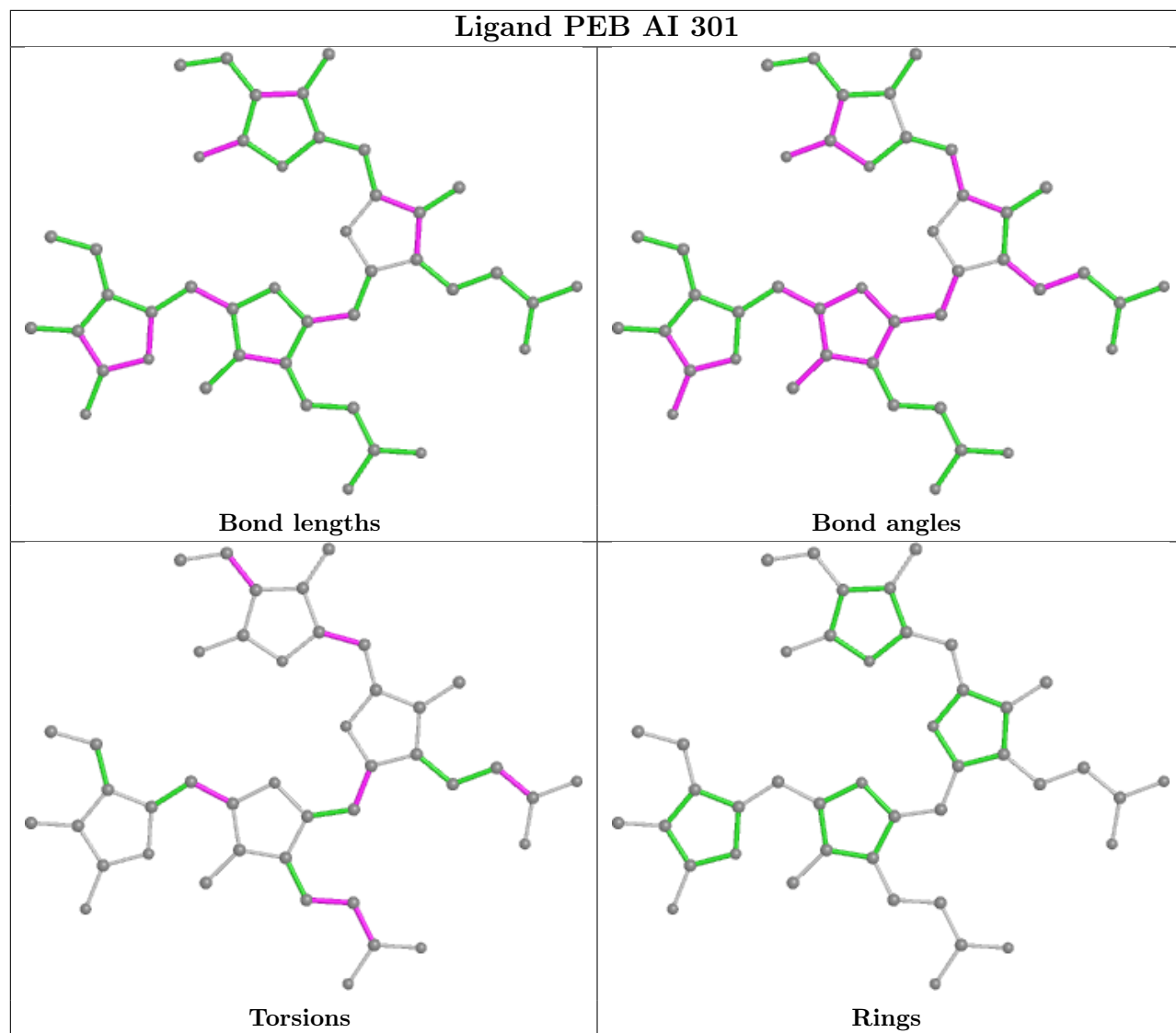
Rings

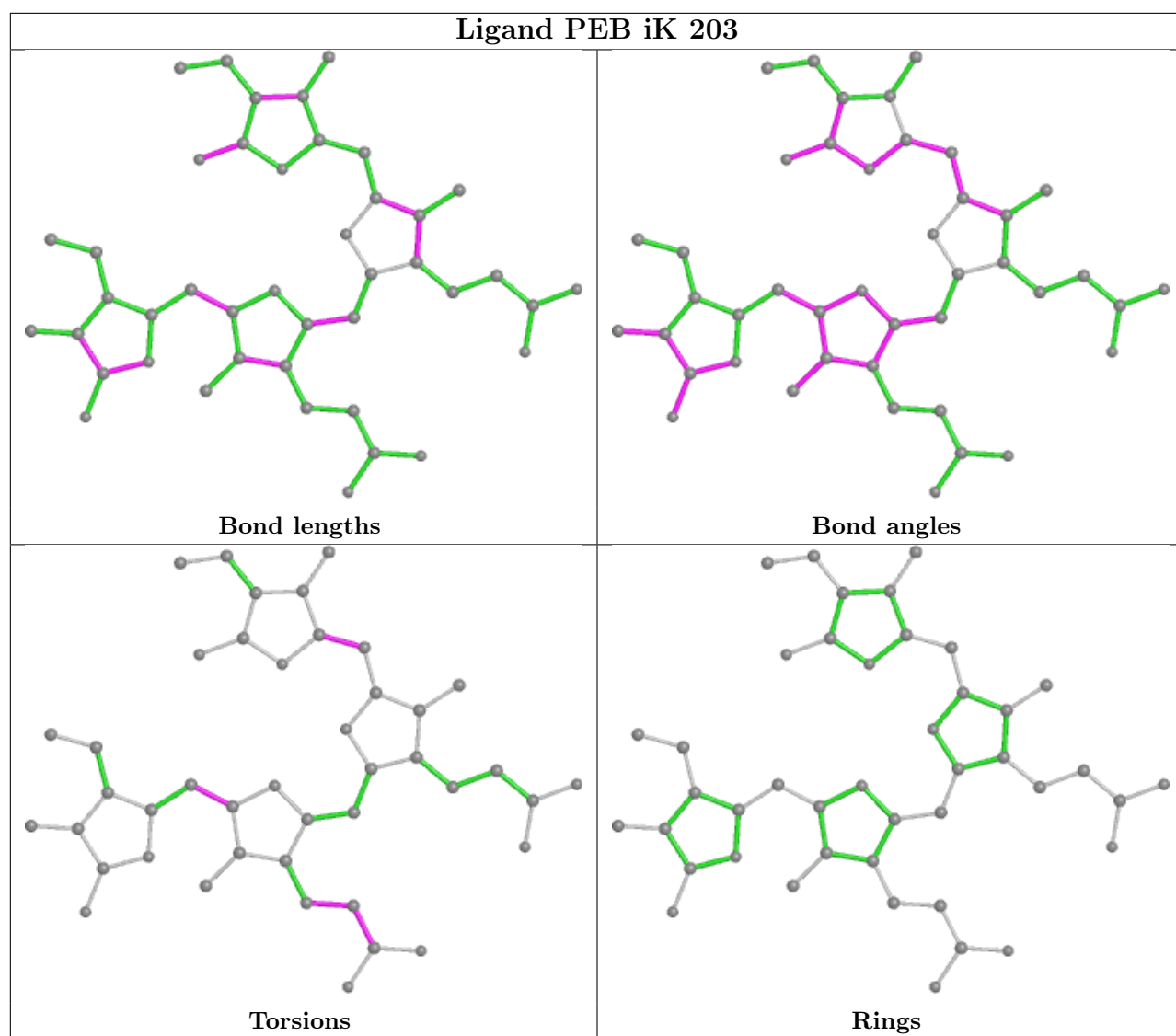
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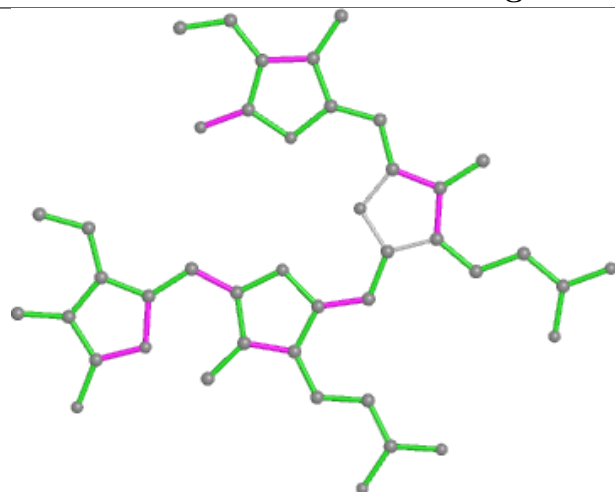
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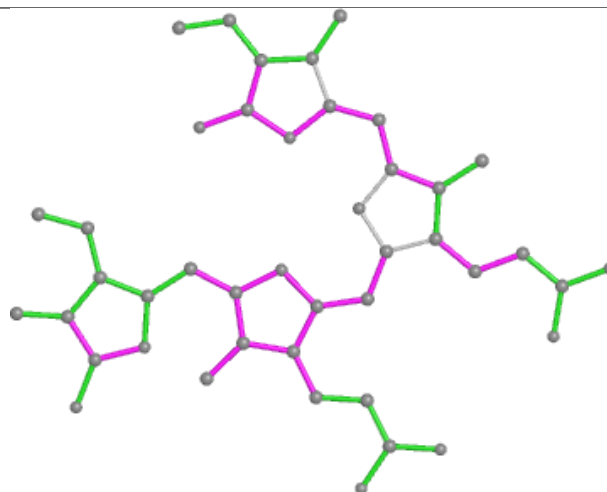




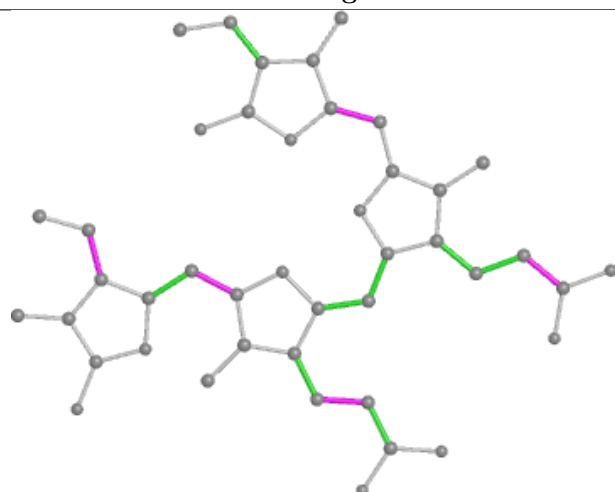
Ligand PEB OL 201



Bond lengths



Bond angles

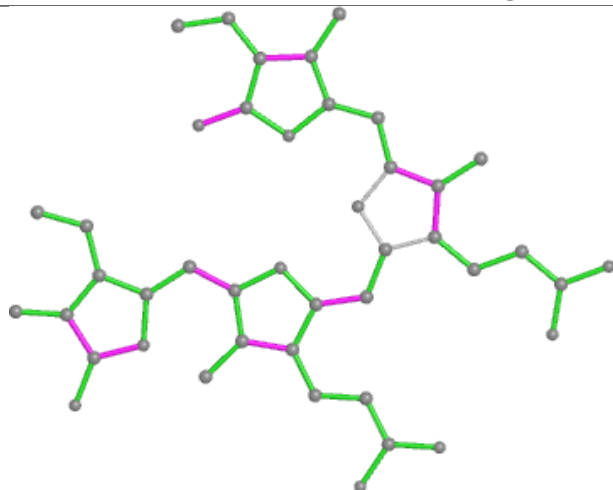


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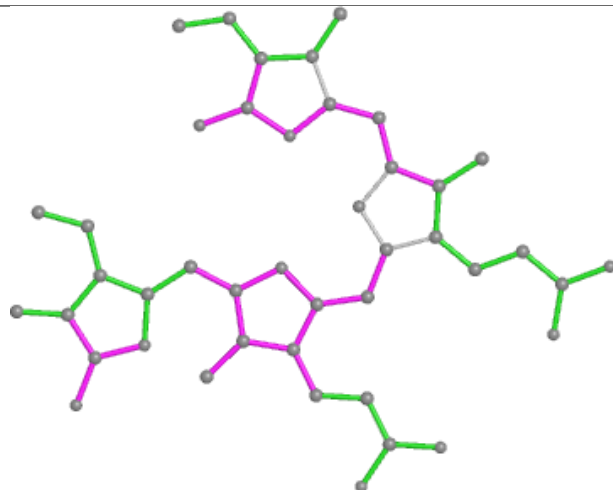


Rings

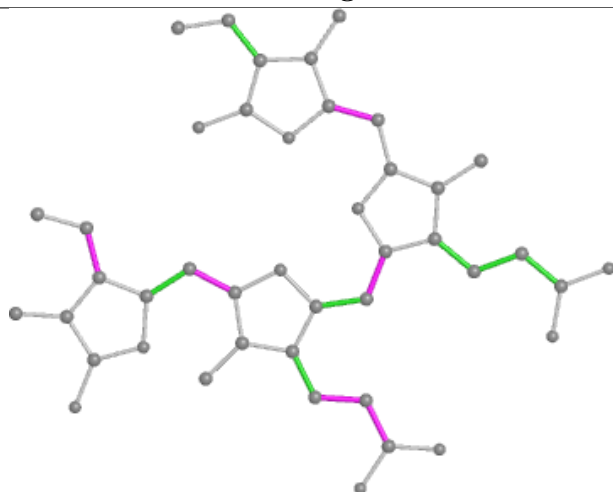
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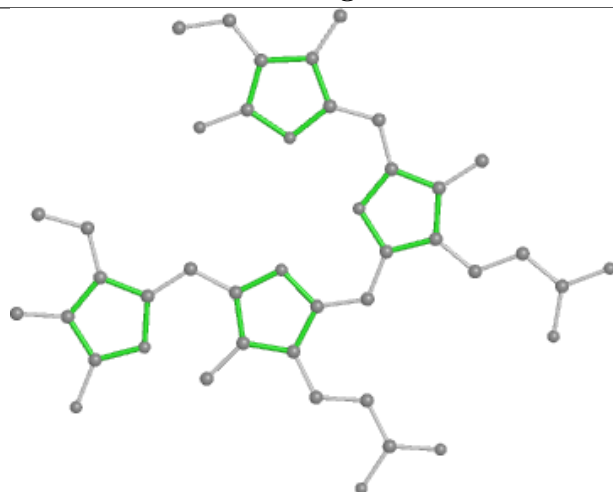
Bond lengths



Bond angles

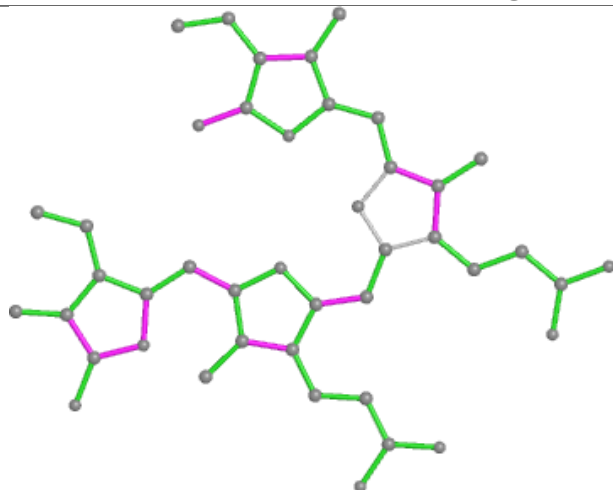


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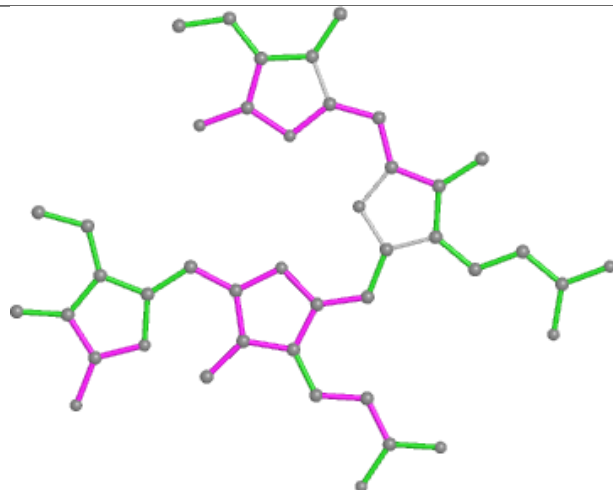


Rings

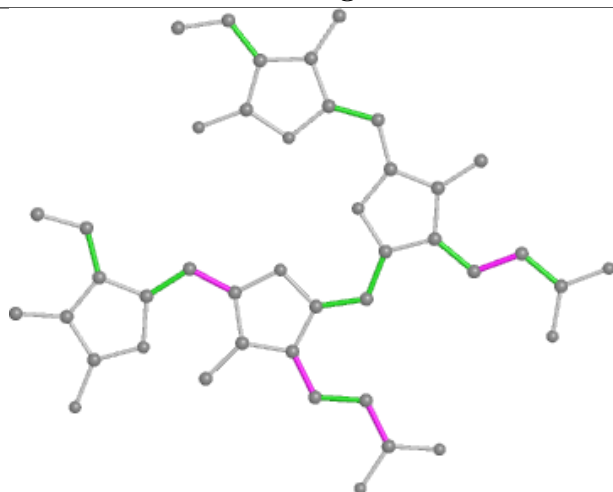
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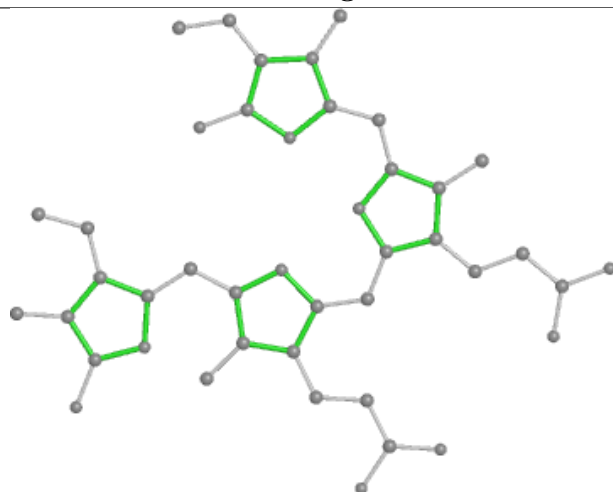
Bond lengths



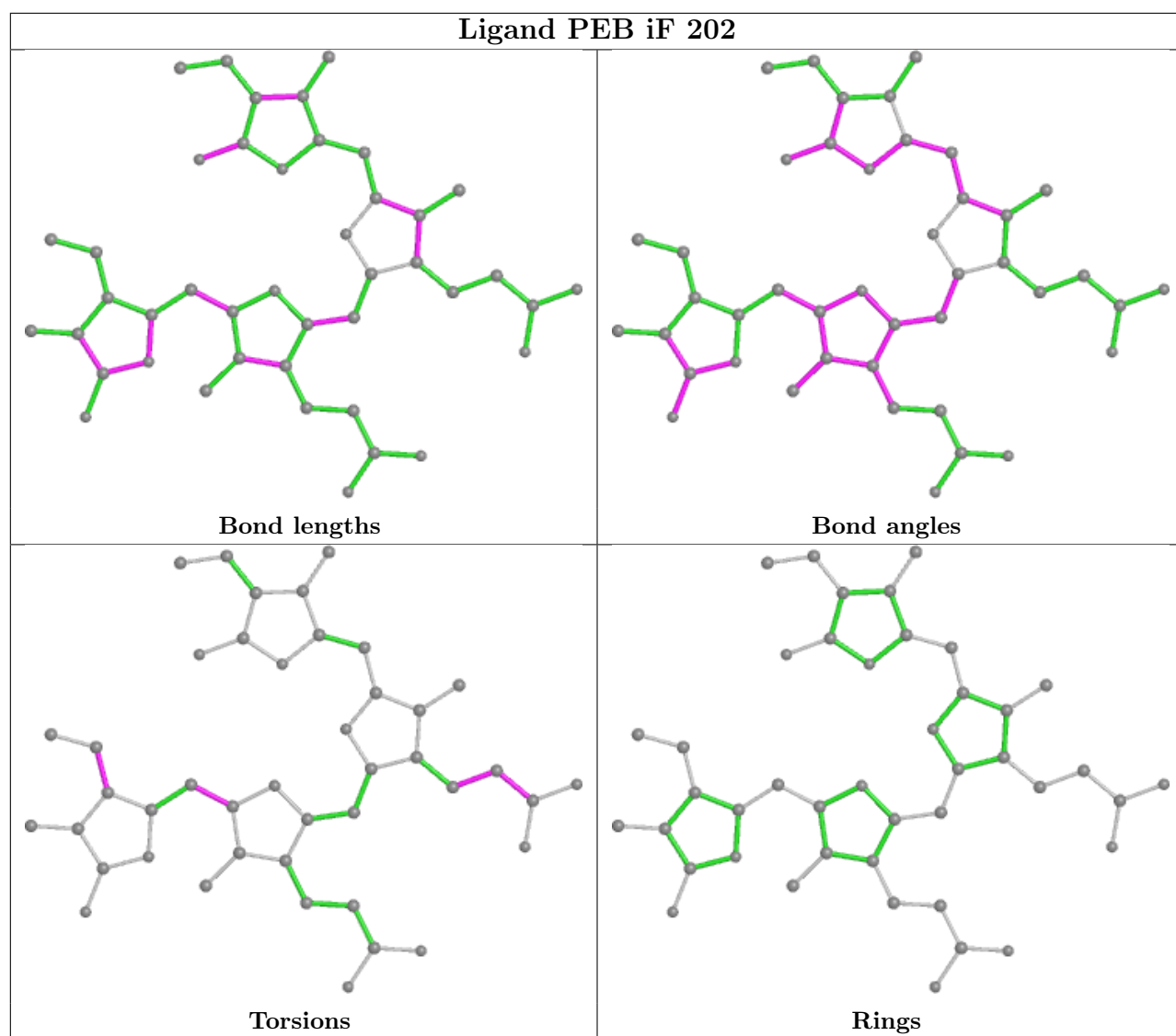
Bond angles



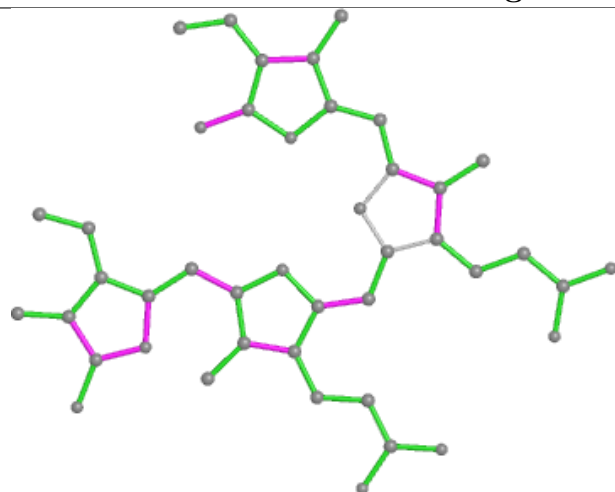
Torsions



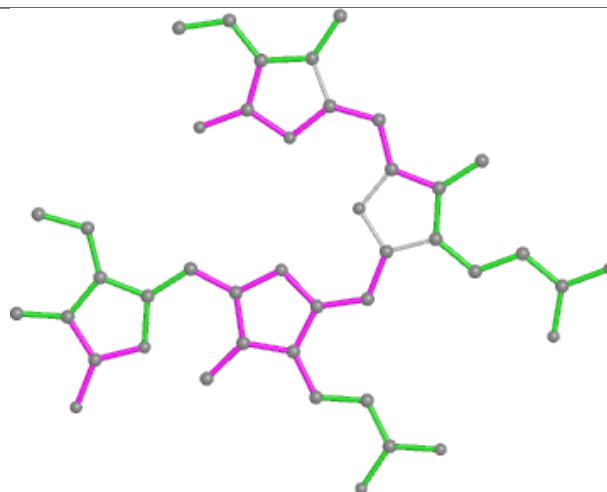
Rings



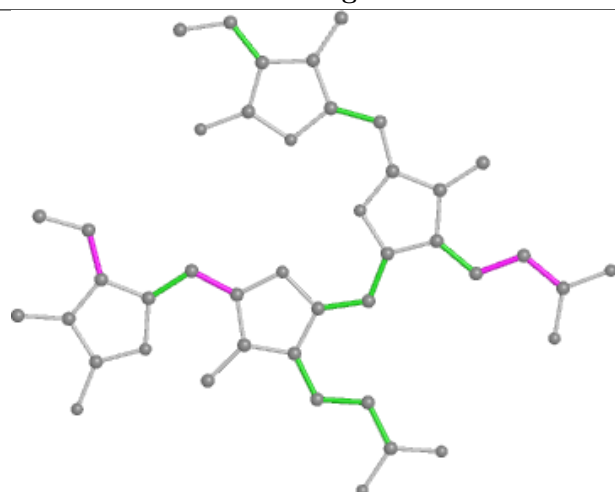
Ligand PEB YF 202



Bond lengths



Bond angles

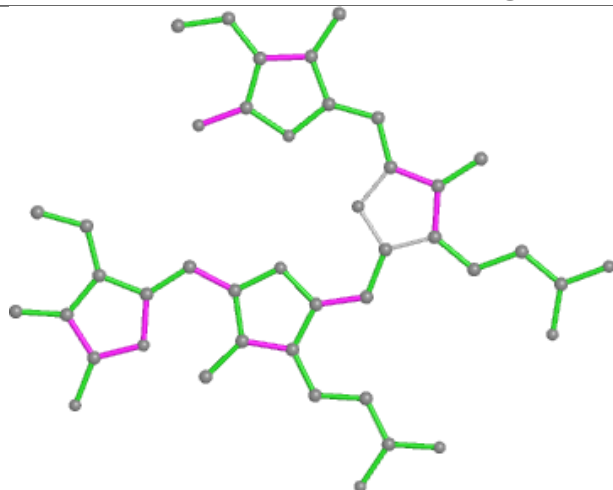


Torsions

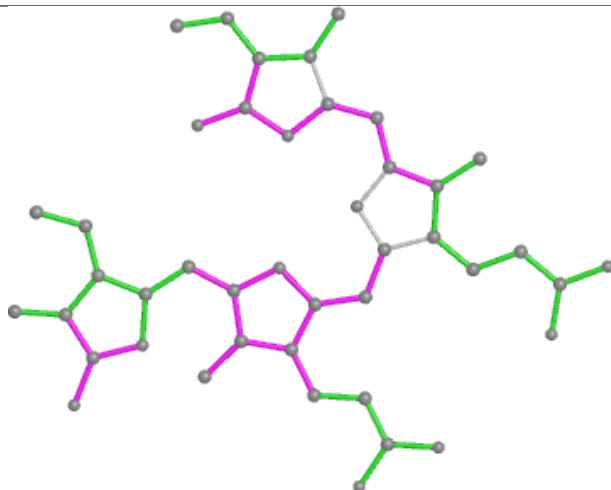


Rings

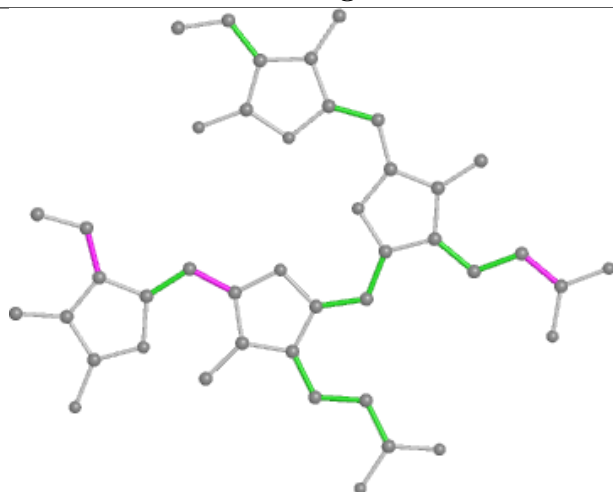
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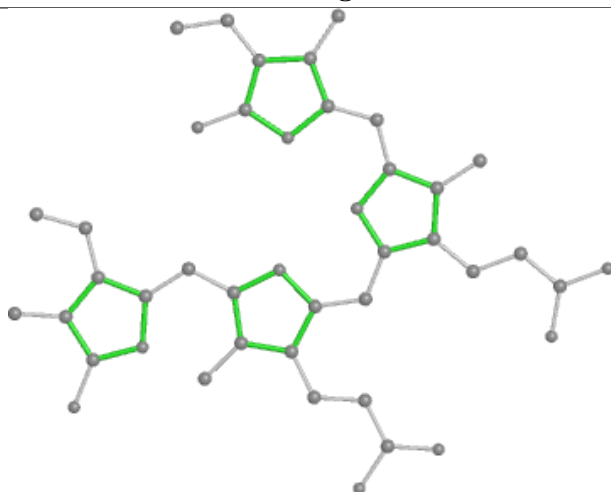
Bond lengths



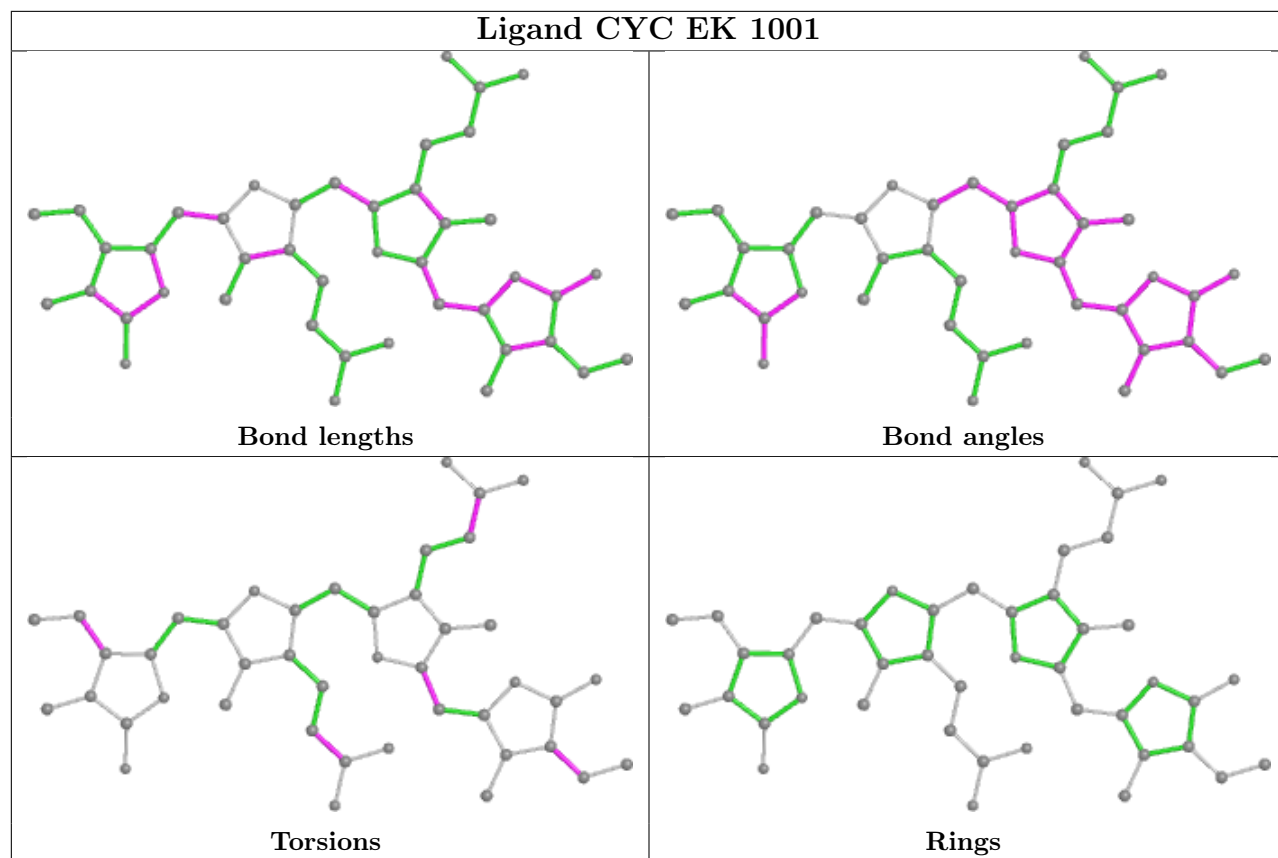
Bond angles

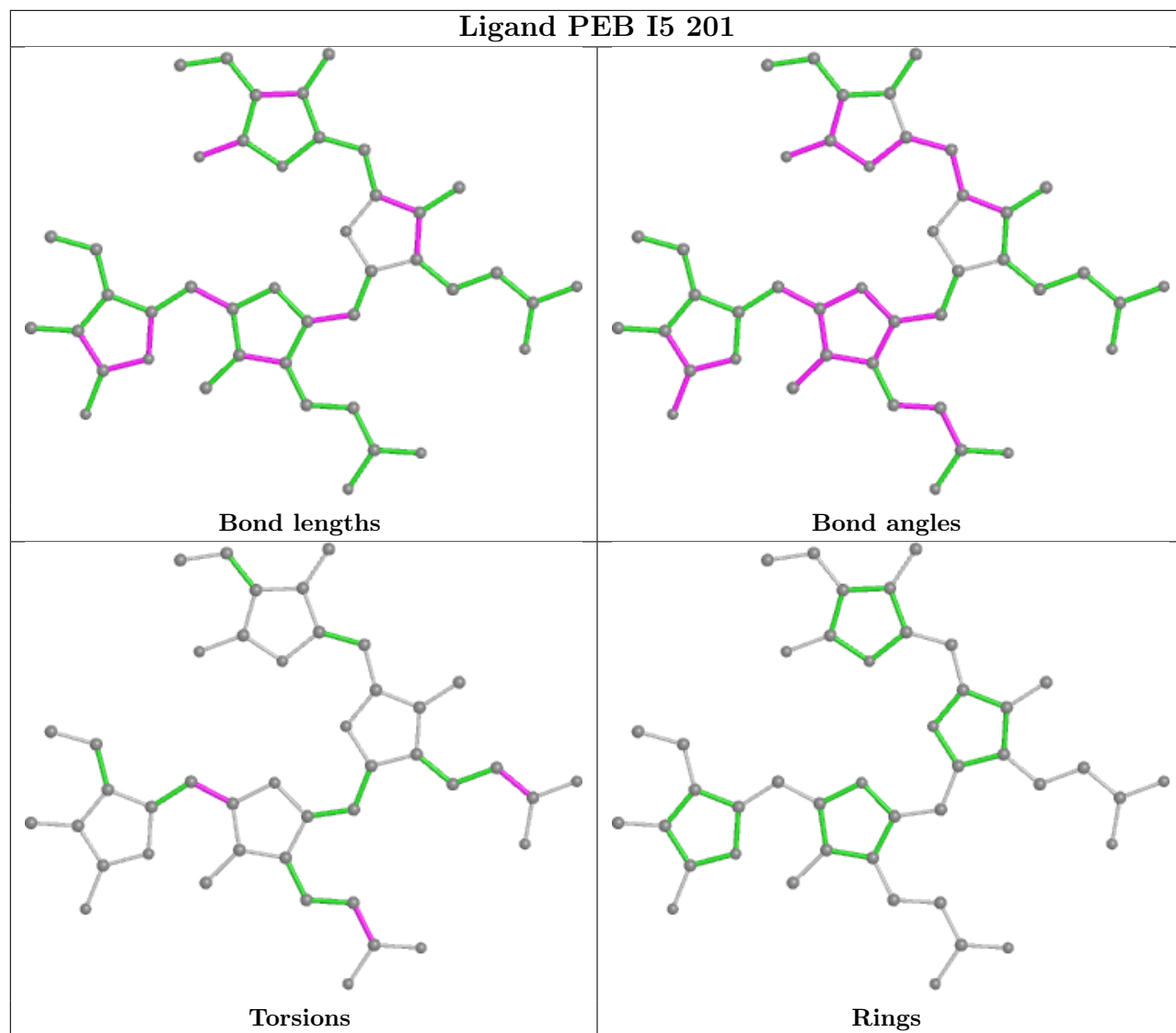


Torsions

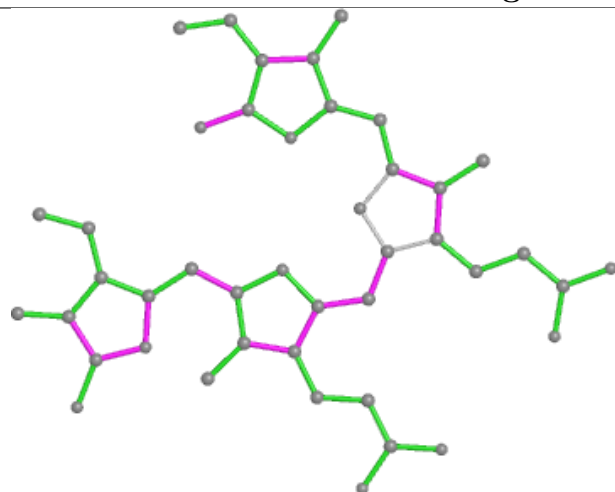


Rings

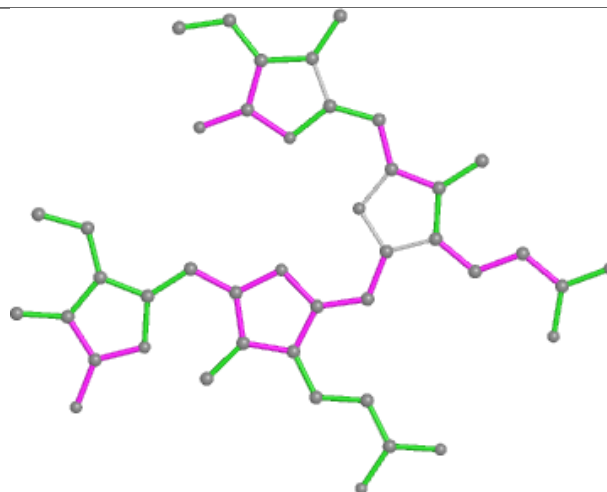




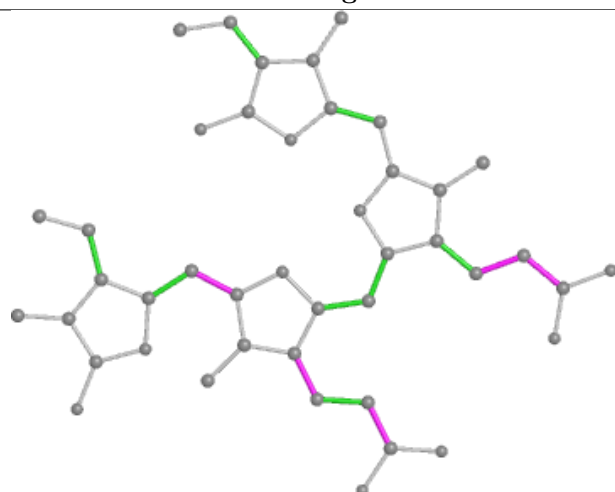
Ligand PEB VR 201



Bond lengths



Bond angles

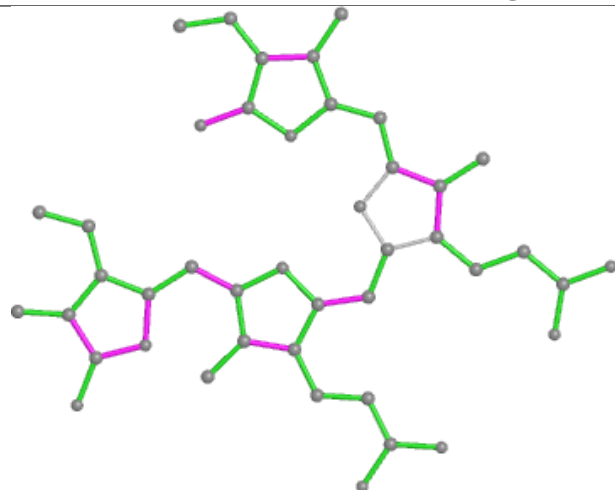


Torsions

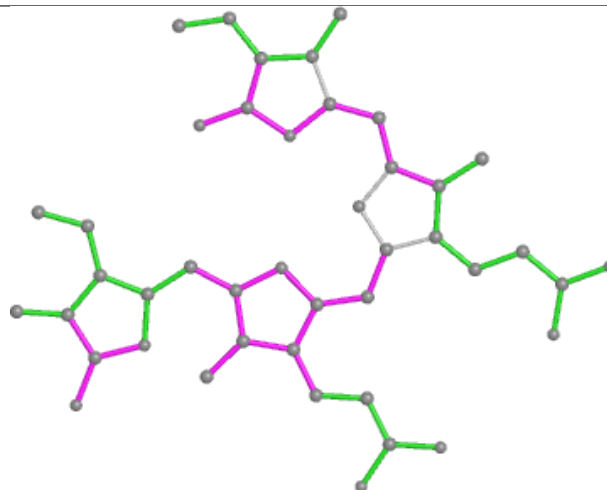


Rings

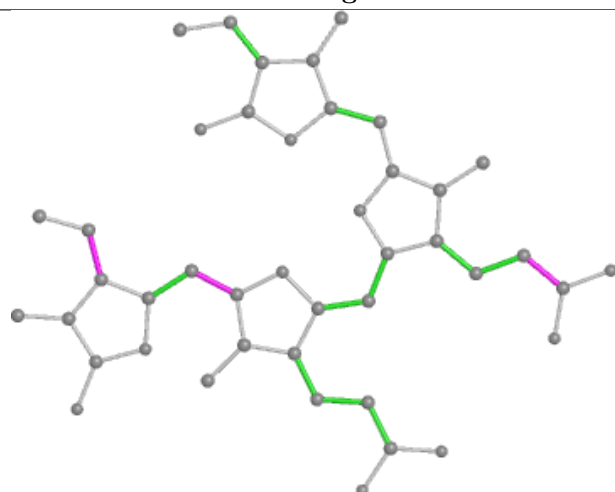
Ligand PEB aM 203



Bond lengths



Bond angles

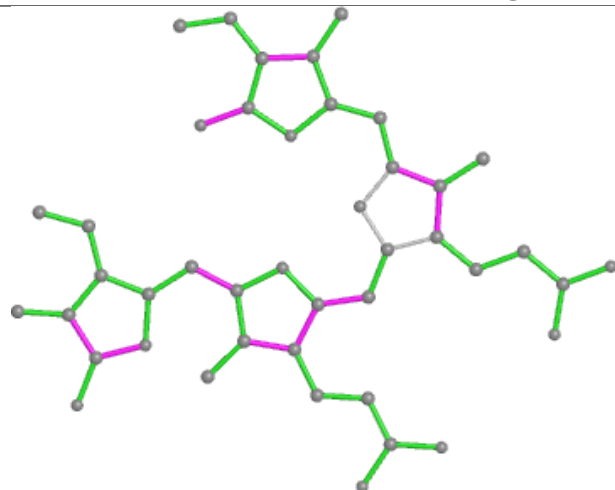


Torsions

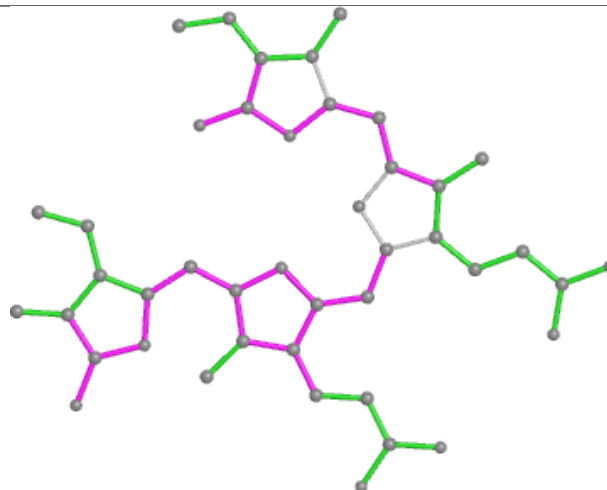


Rings

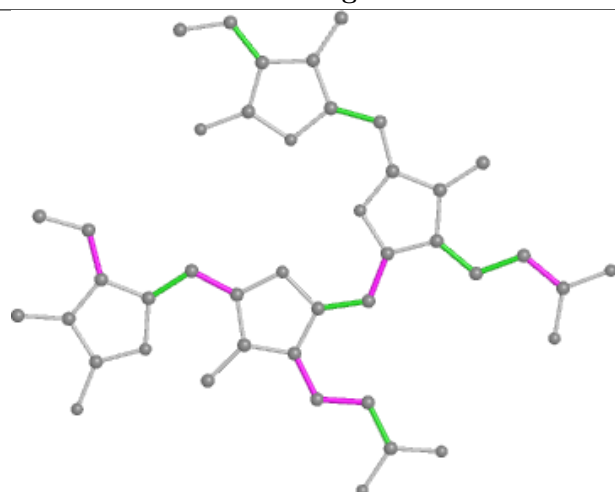
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Bond lengths



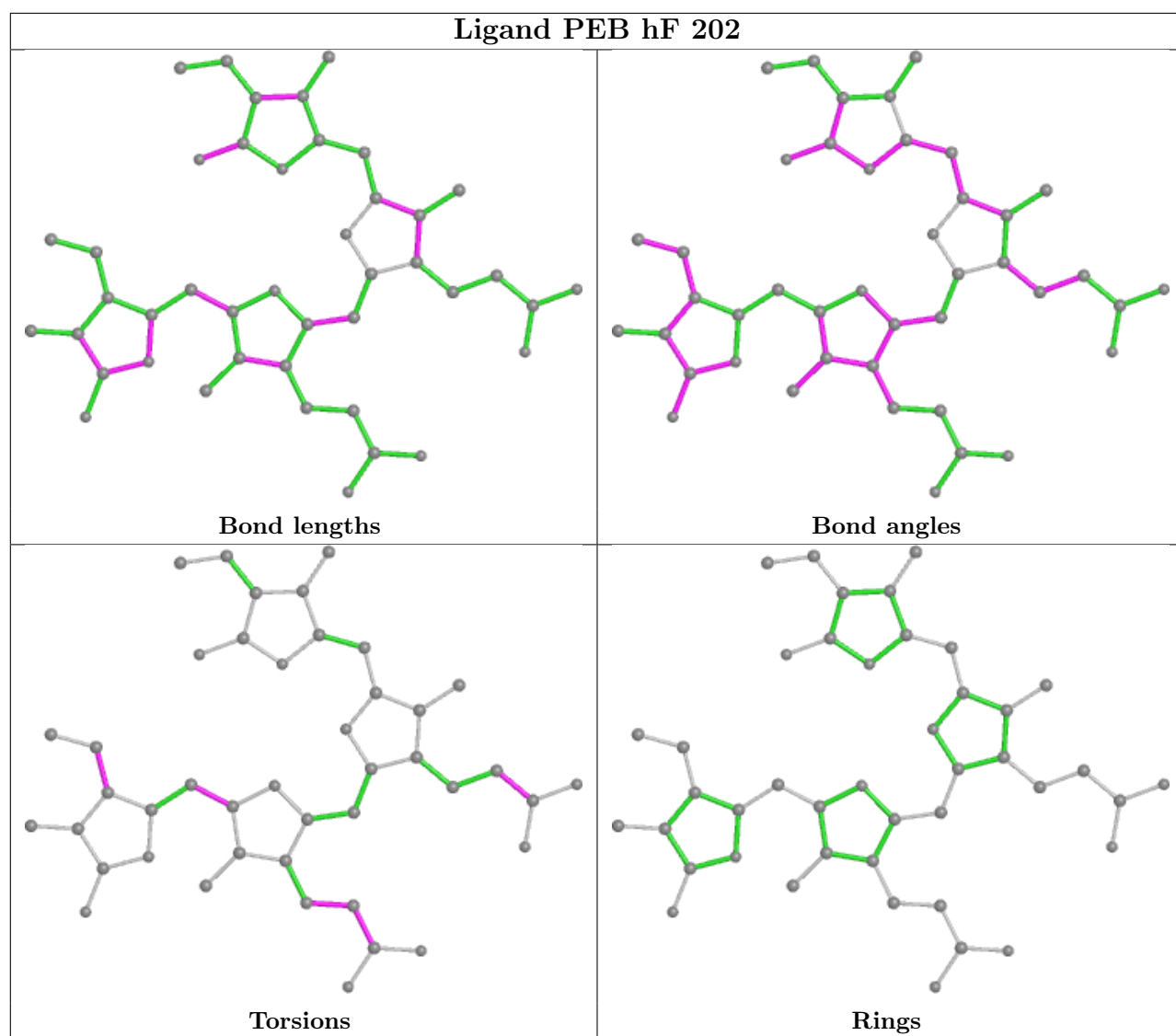
Bond angles



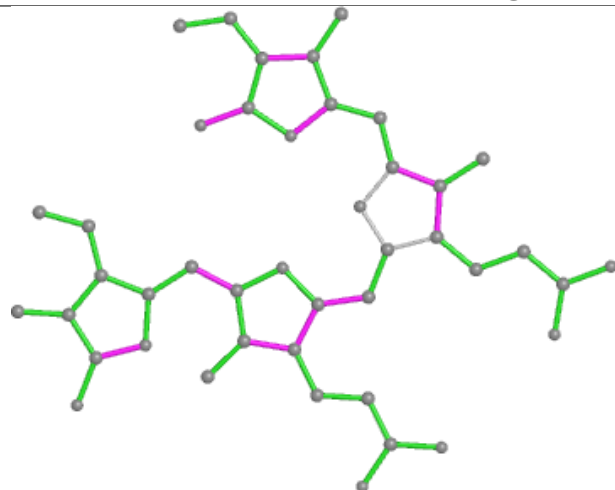
Torsions



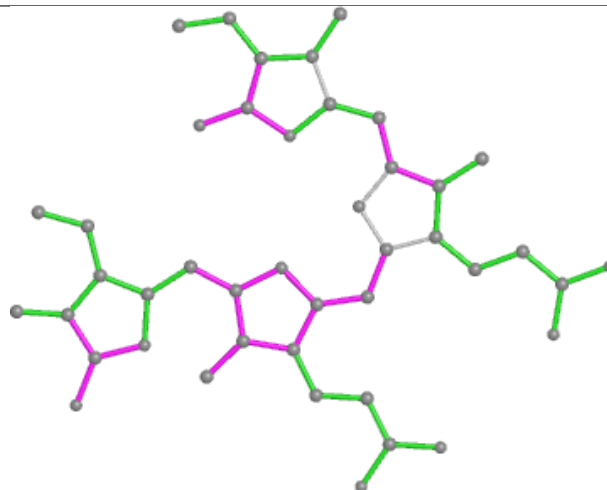
Rings



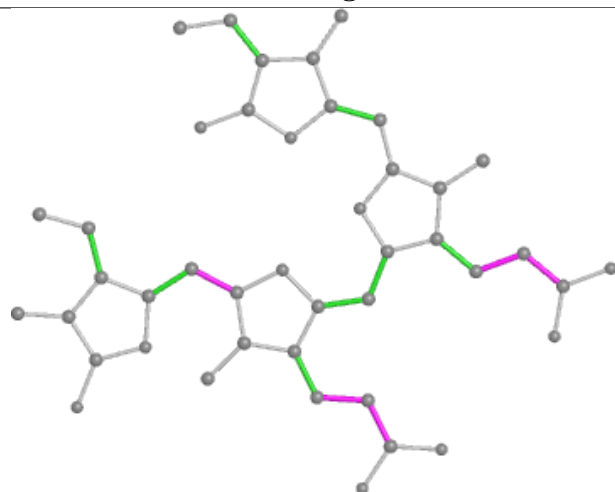
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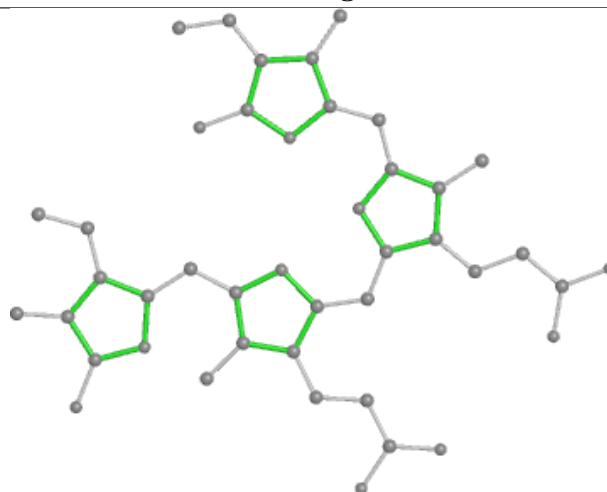
Bond lengths



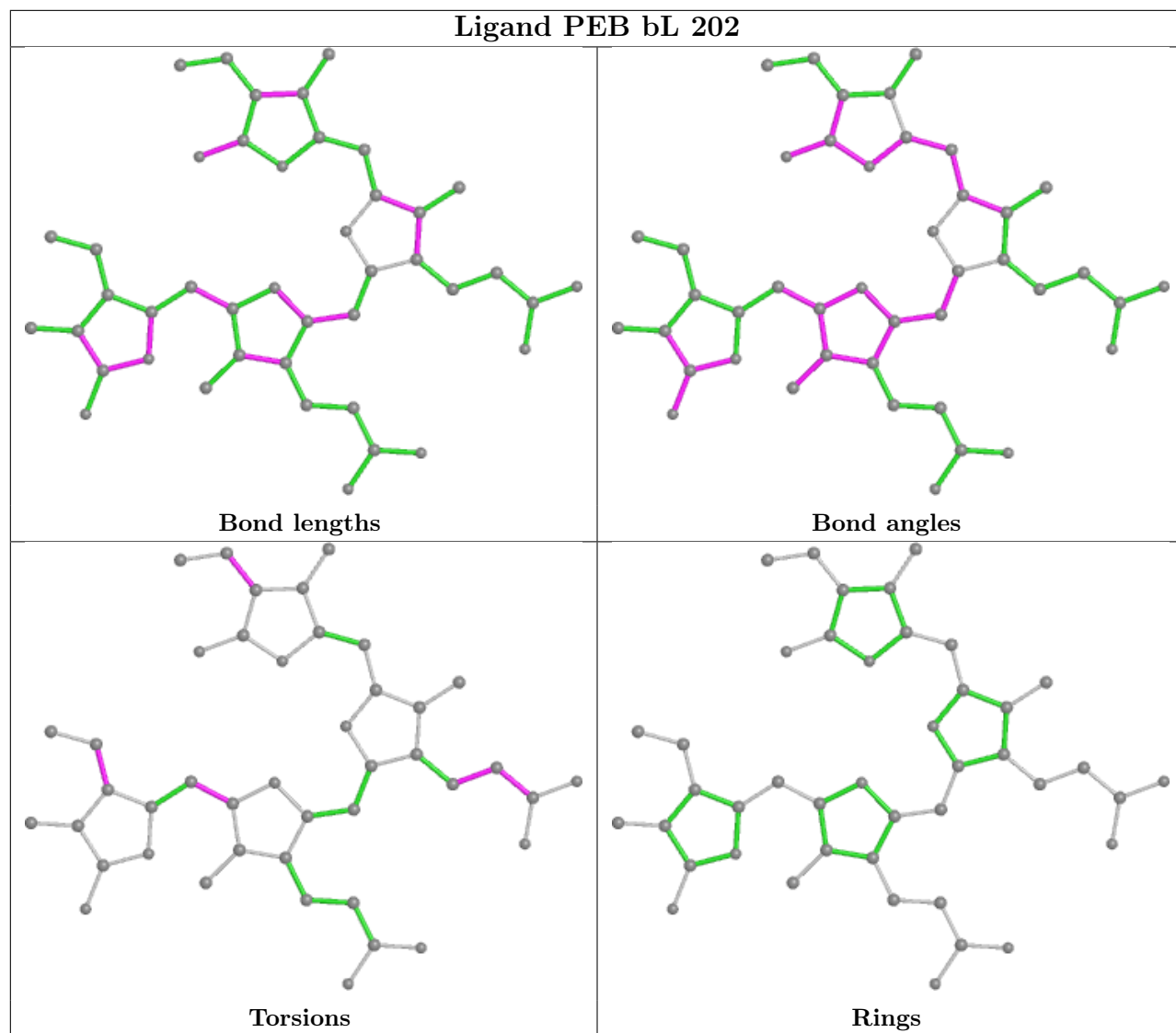
Bond angles



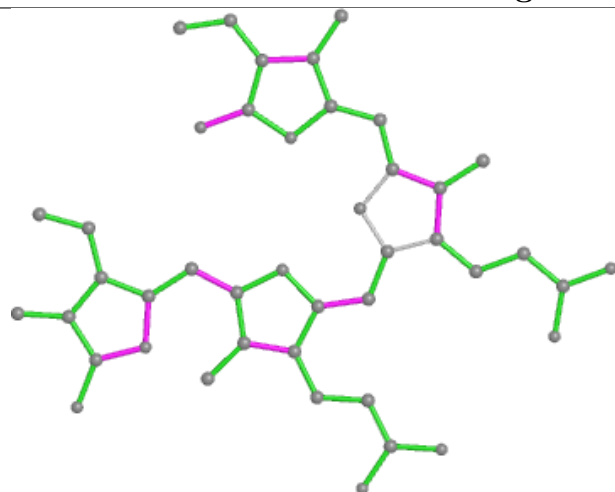
Torsions



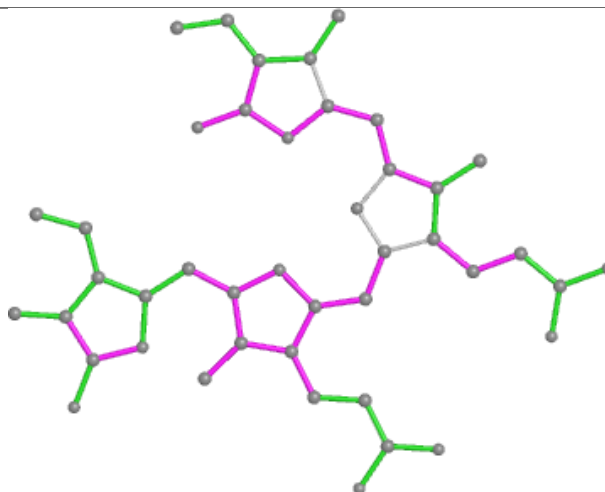
Rings



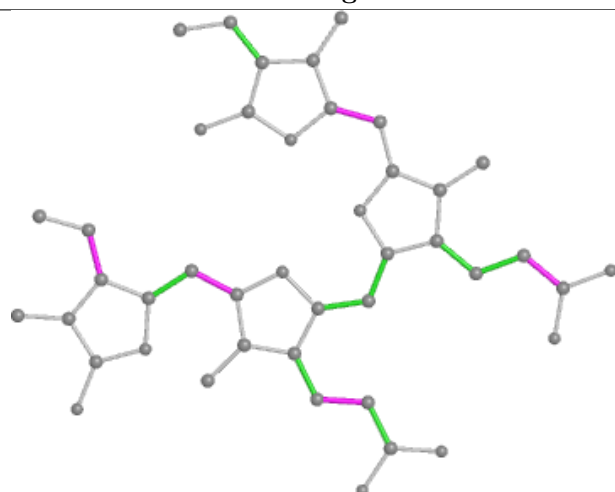
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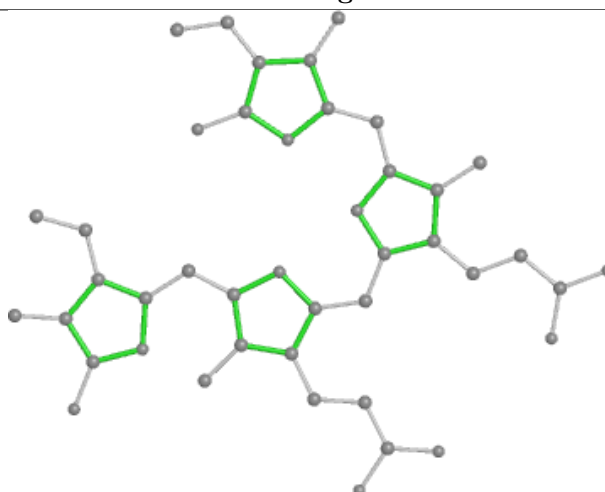
Bond lengths



Bond angles

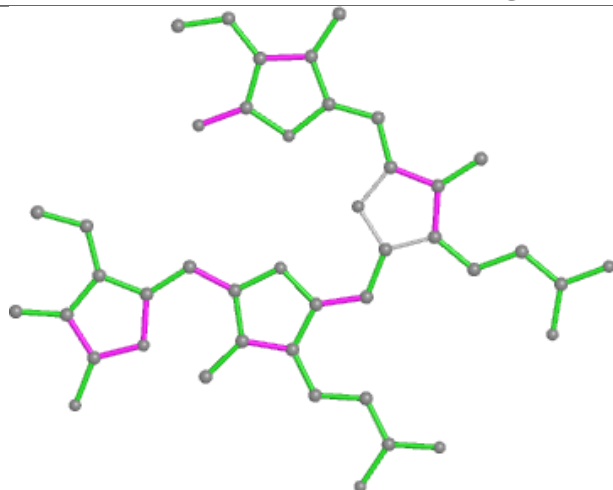


Torsions

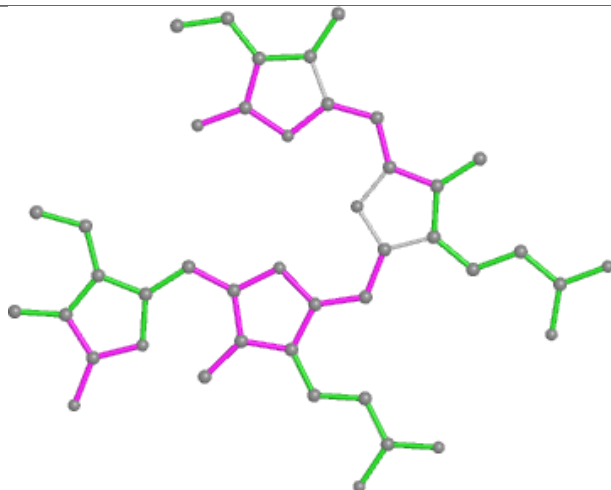


Rings

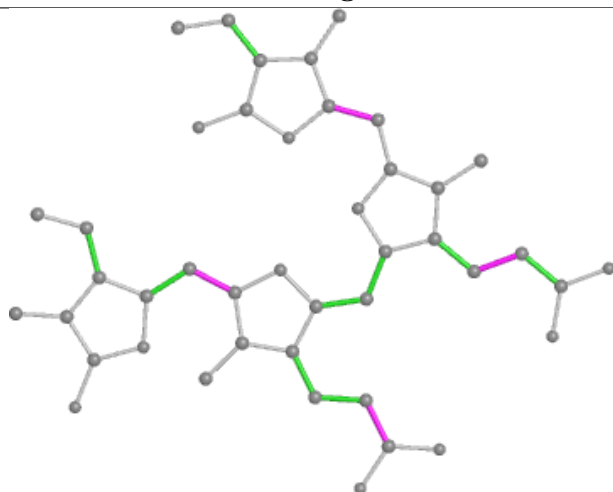
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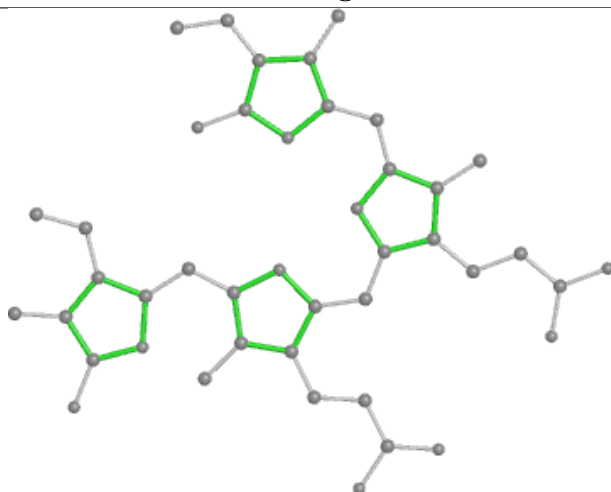
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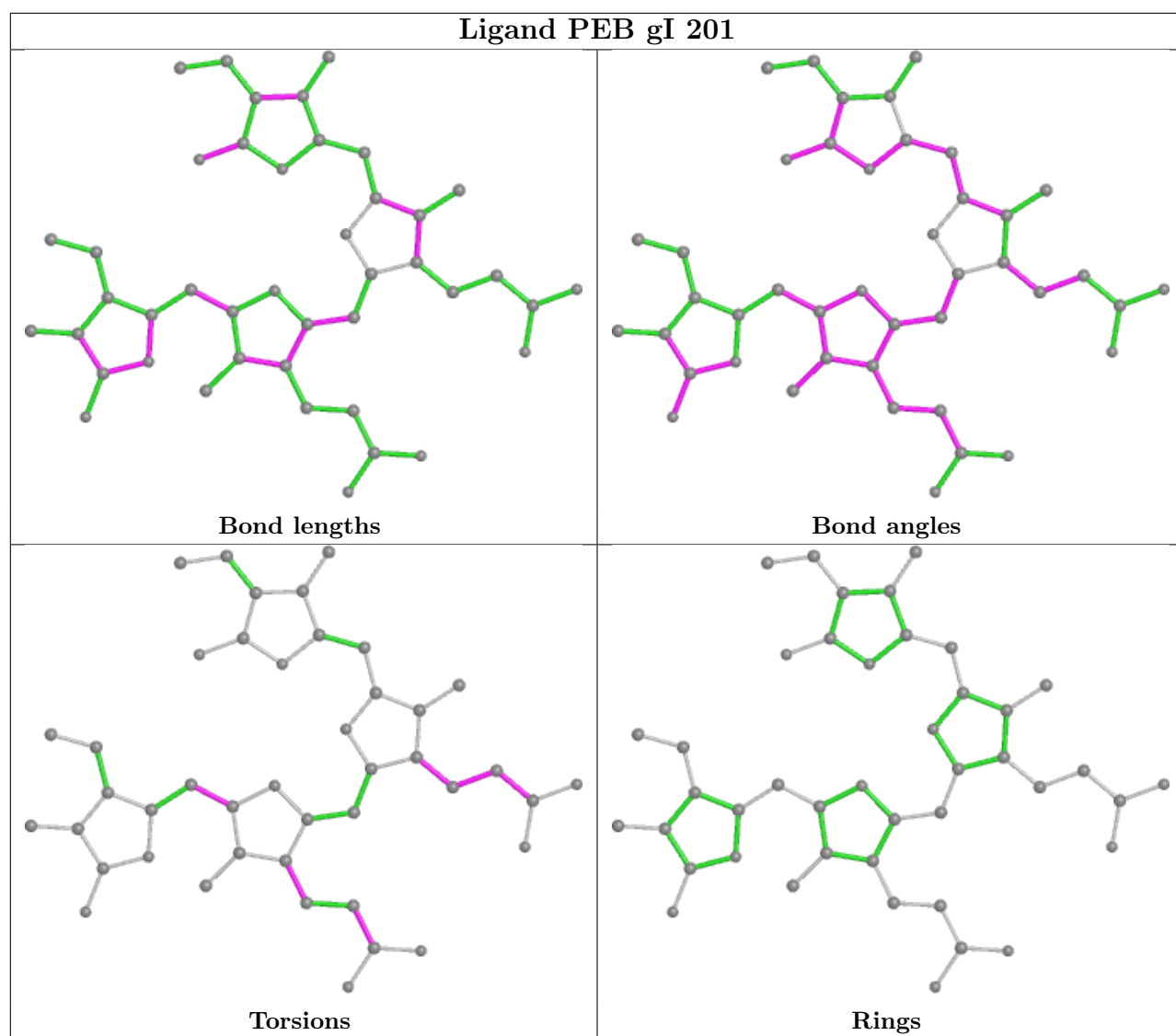
Bond angles



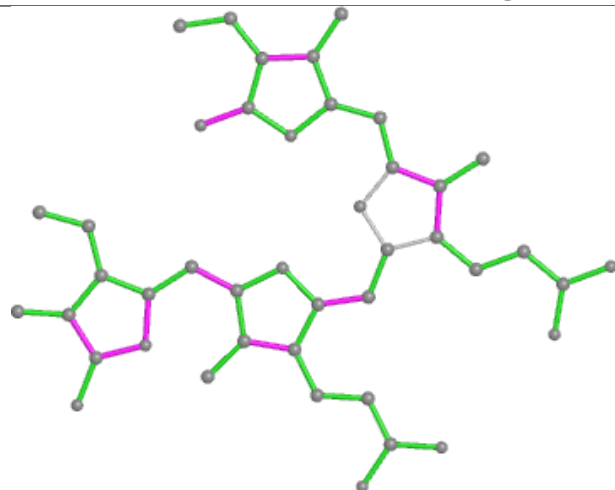
Torsions



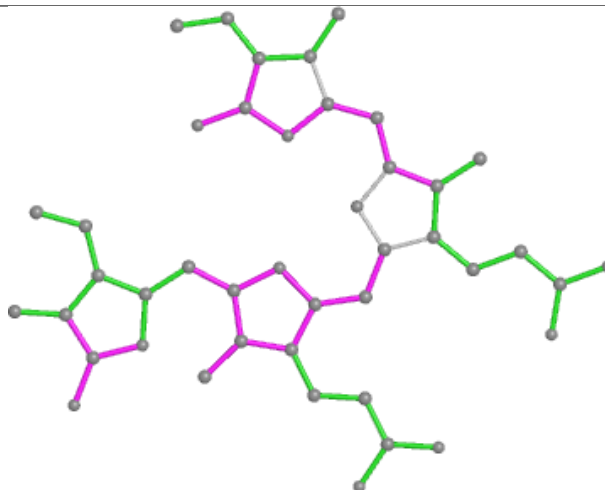
Rings



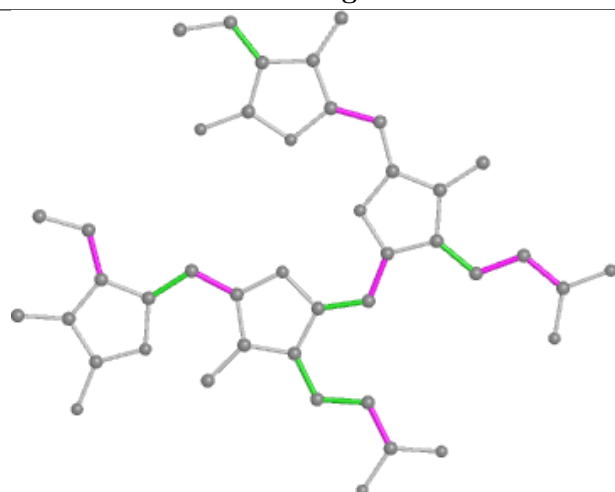
Ligand PEB AM 303



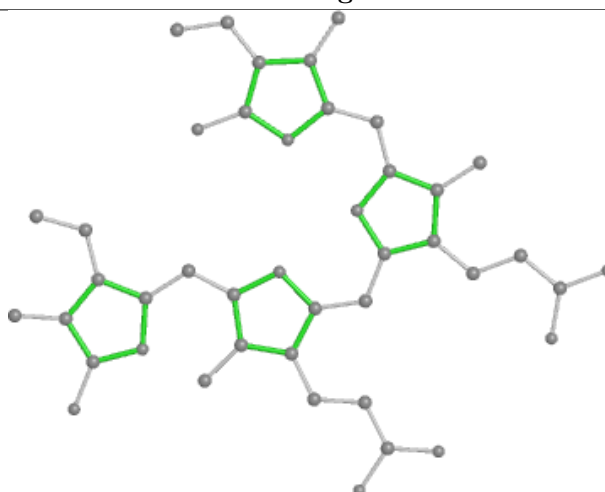
Bond lengths



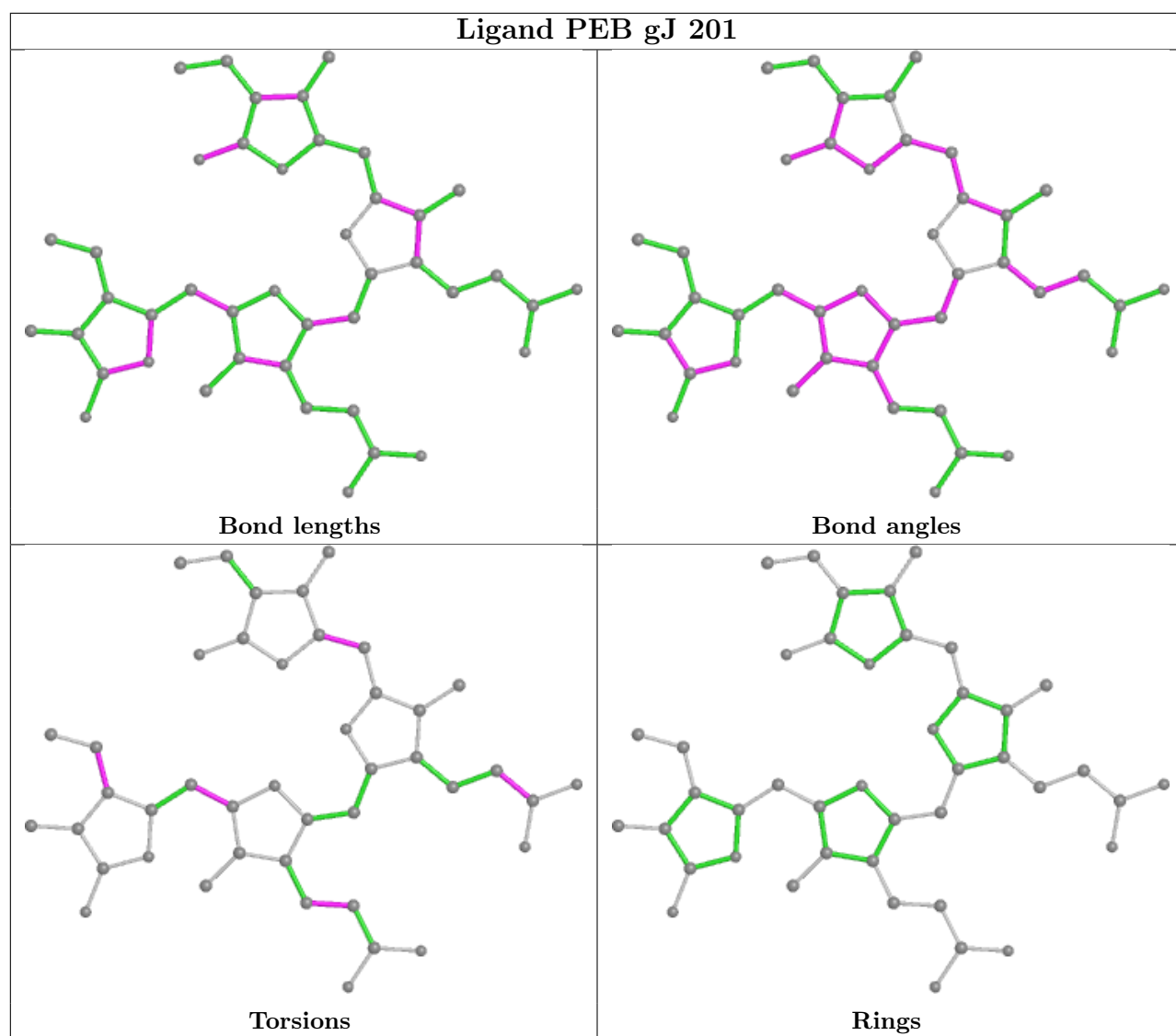
Bond angles



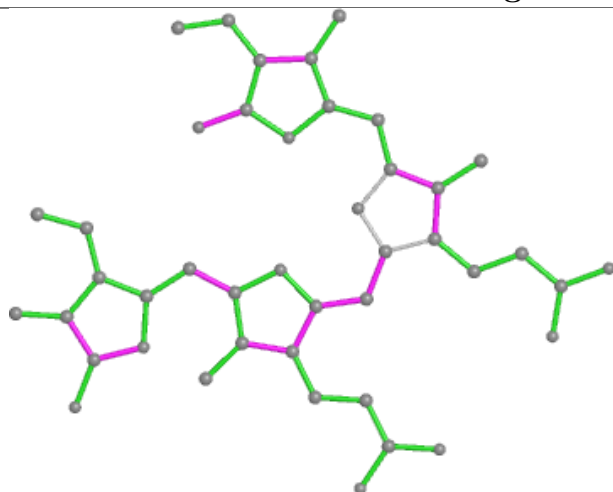
Torsions



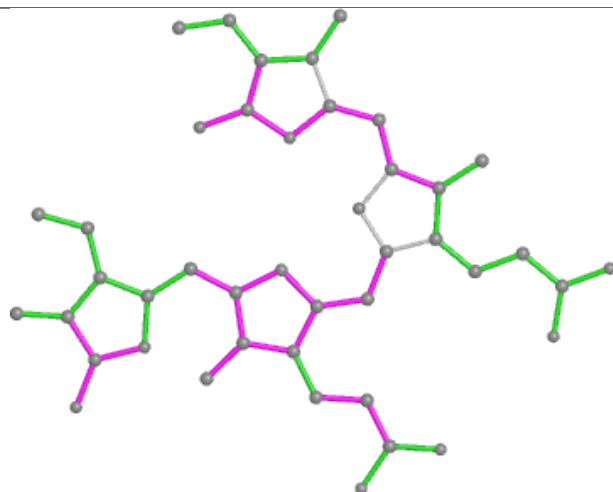
Rings



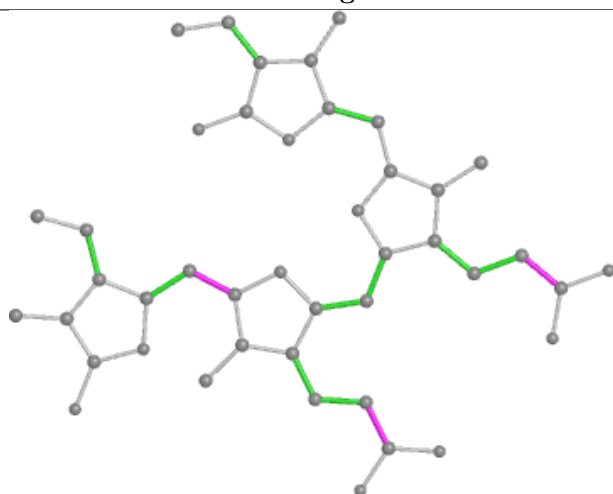
Ligand PEB TF 201



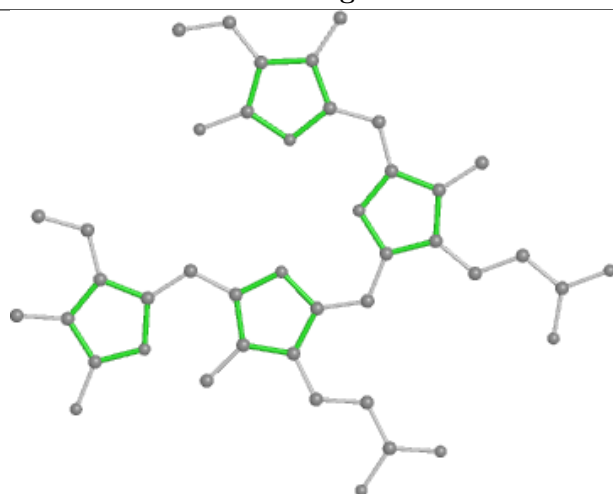
Bond lengths



Bond angles

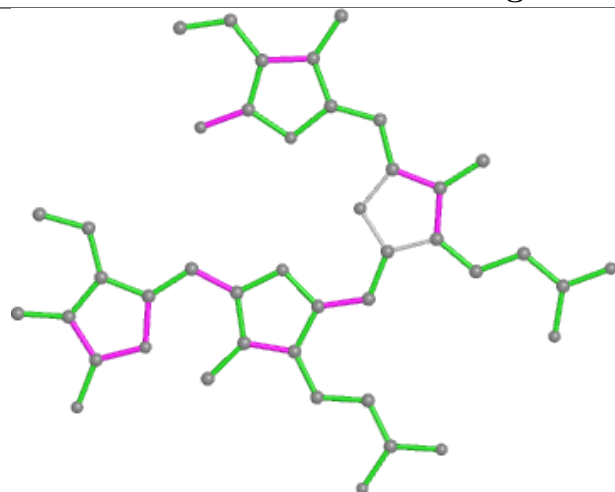


Torsions

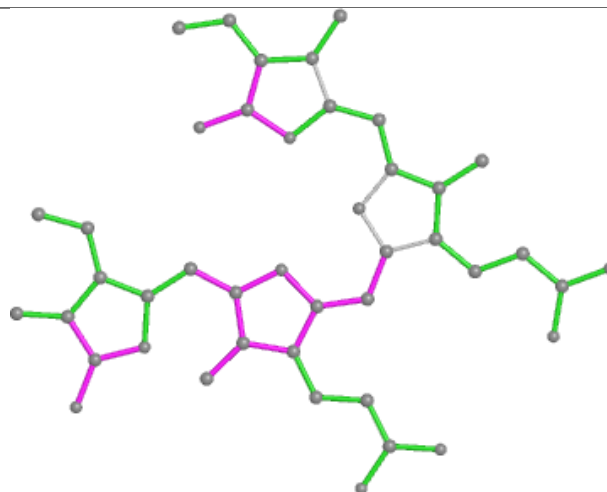


Rings

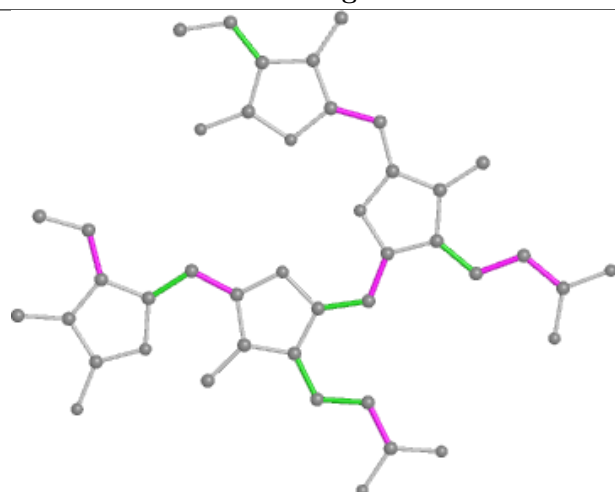
Ligand PEB HJ 202



Bond lengths



Bond angles

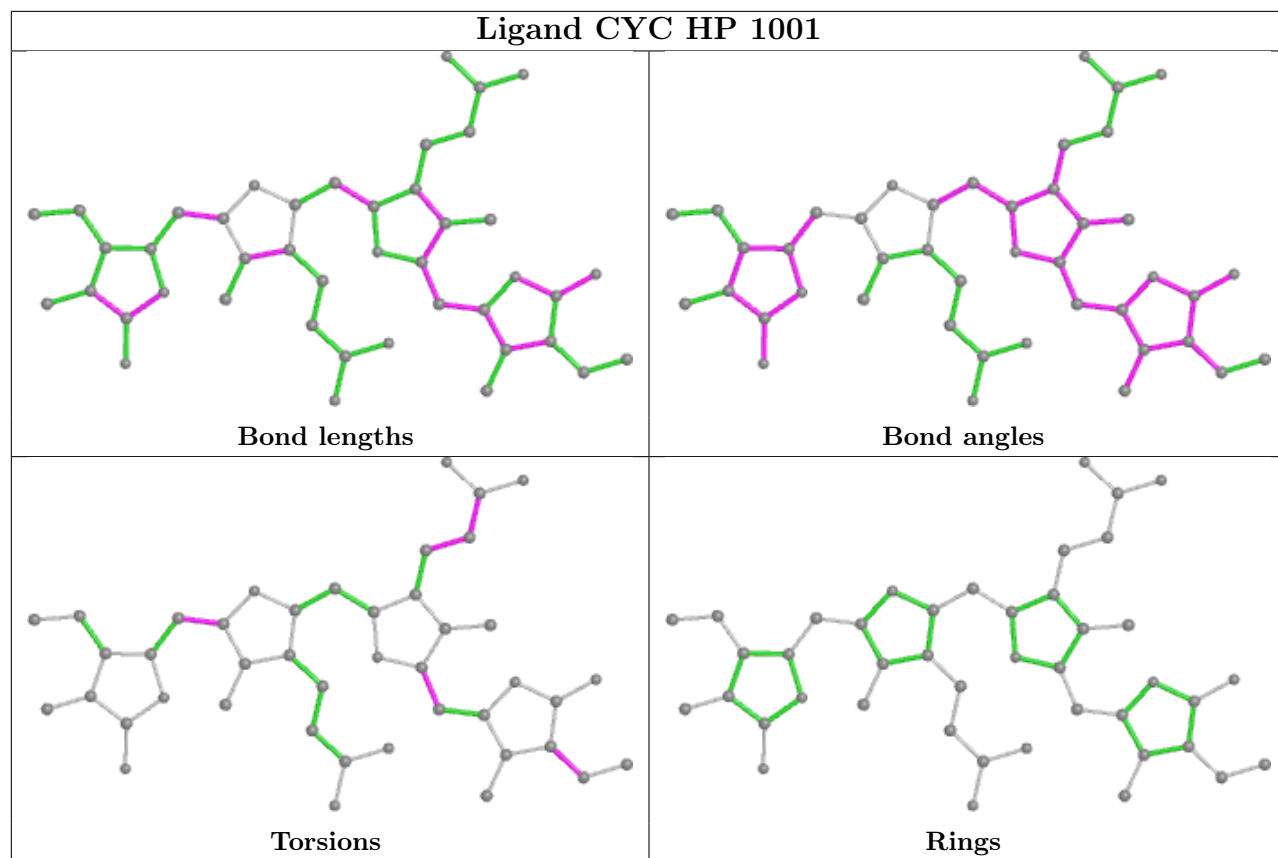


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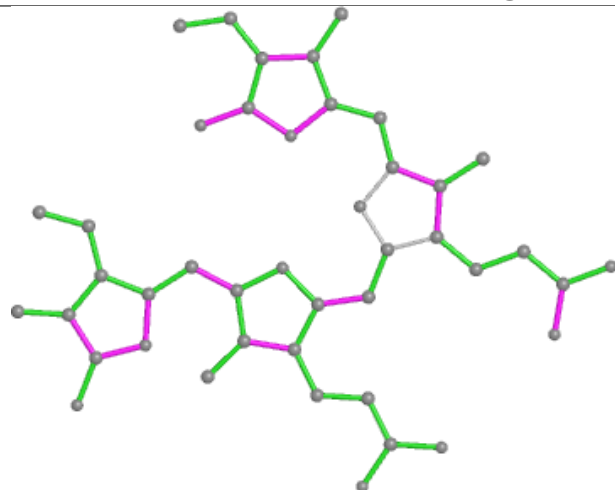


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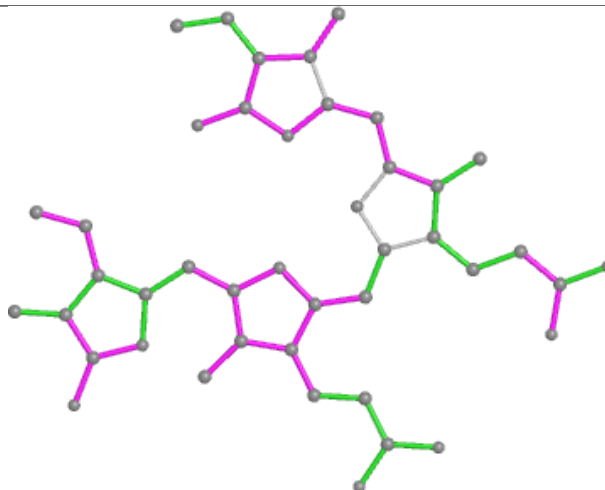
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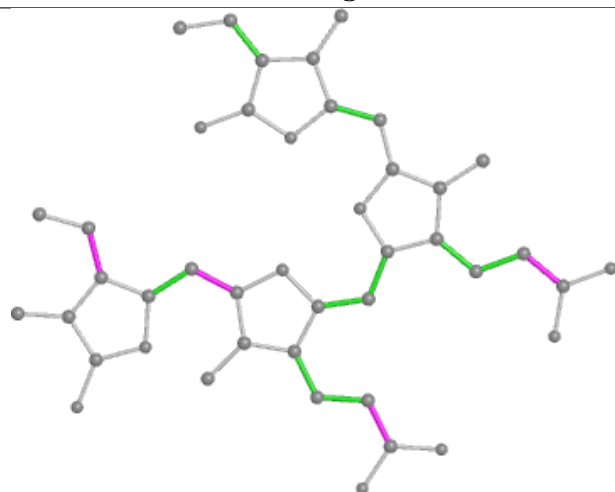
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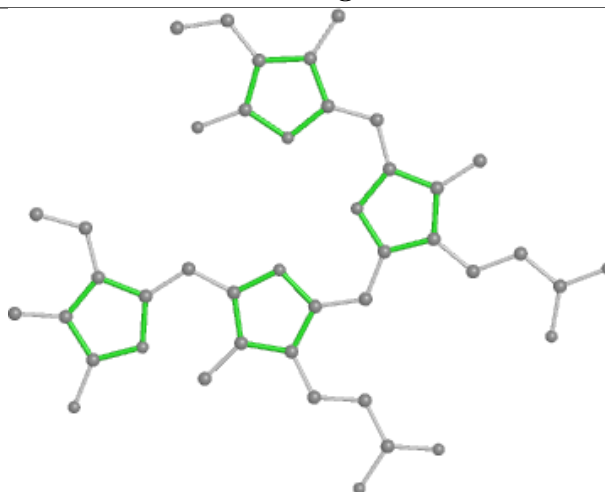
Bond lengths



Bond angles

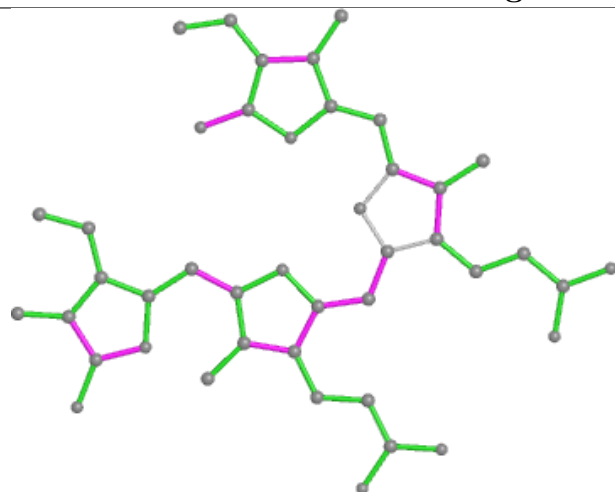


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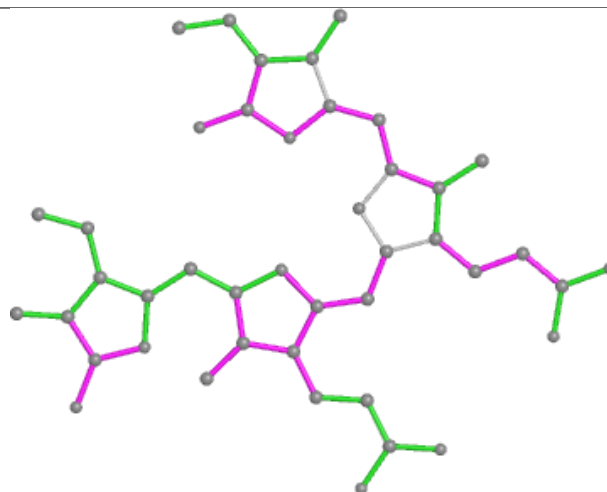


Rings

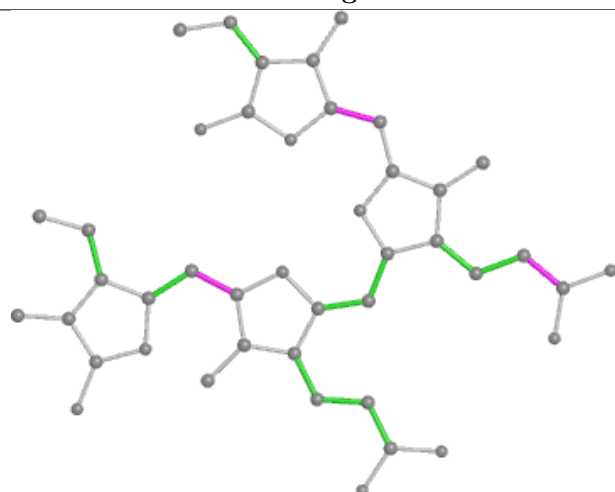
Ligand PEB BE 201



Bond lengths



Bond angles

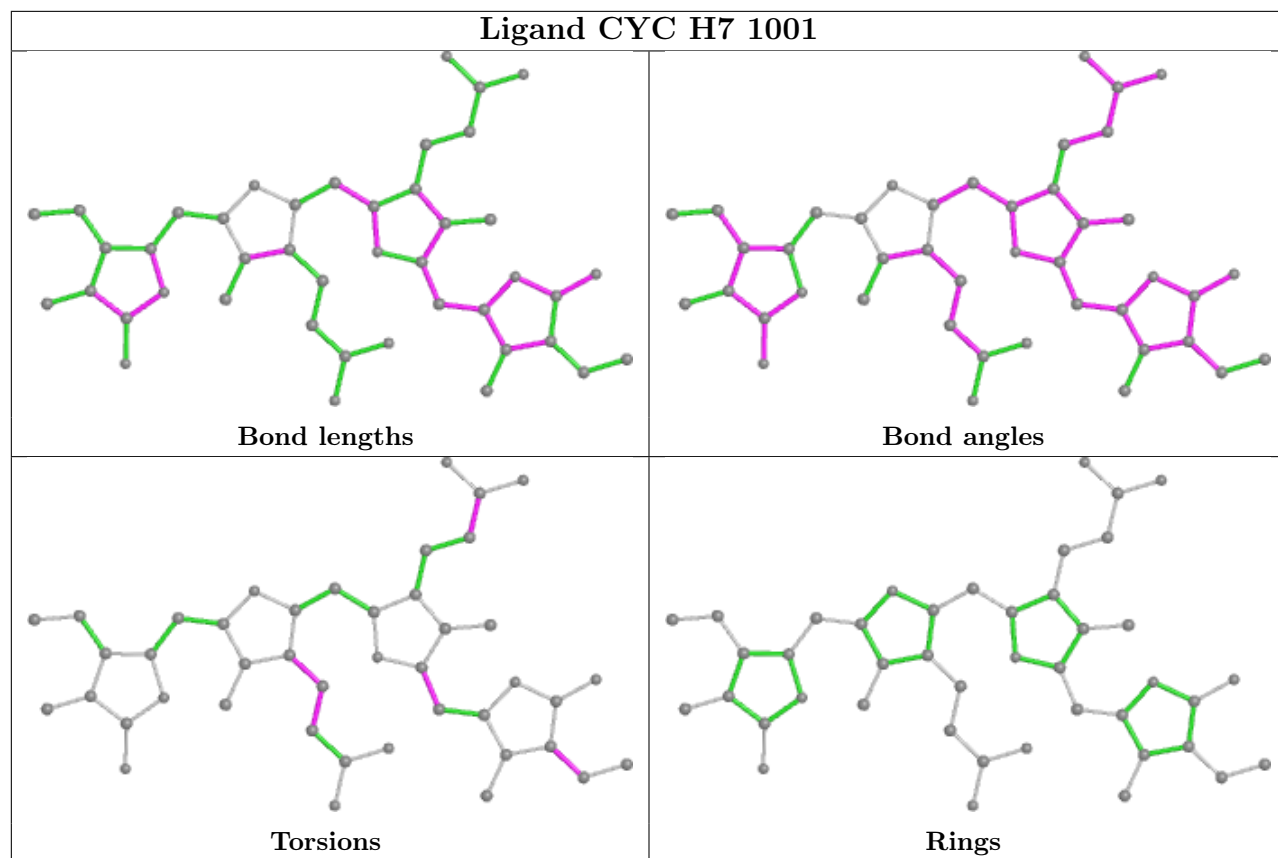


Torsions

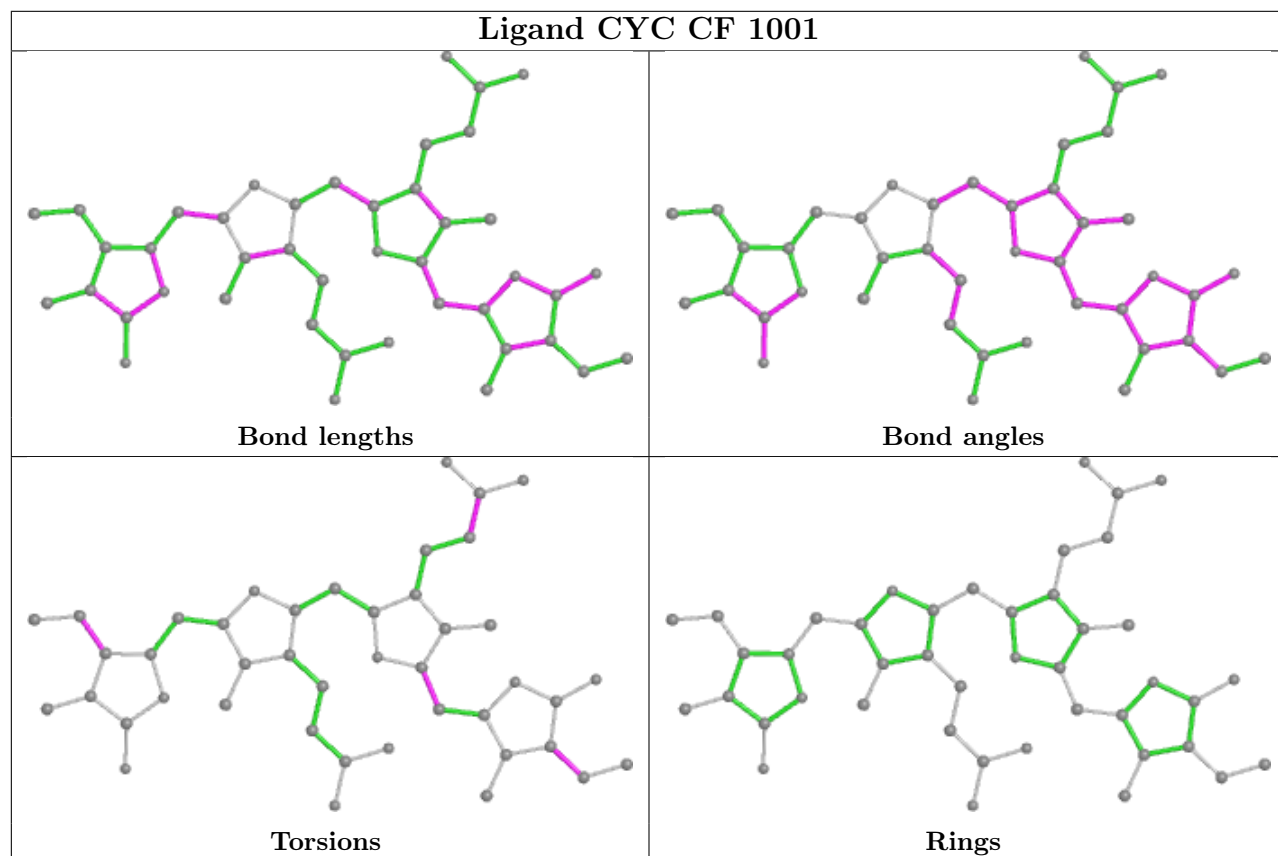


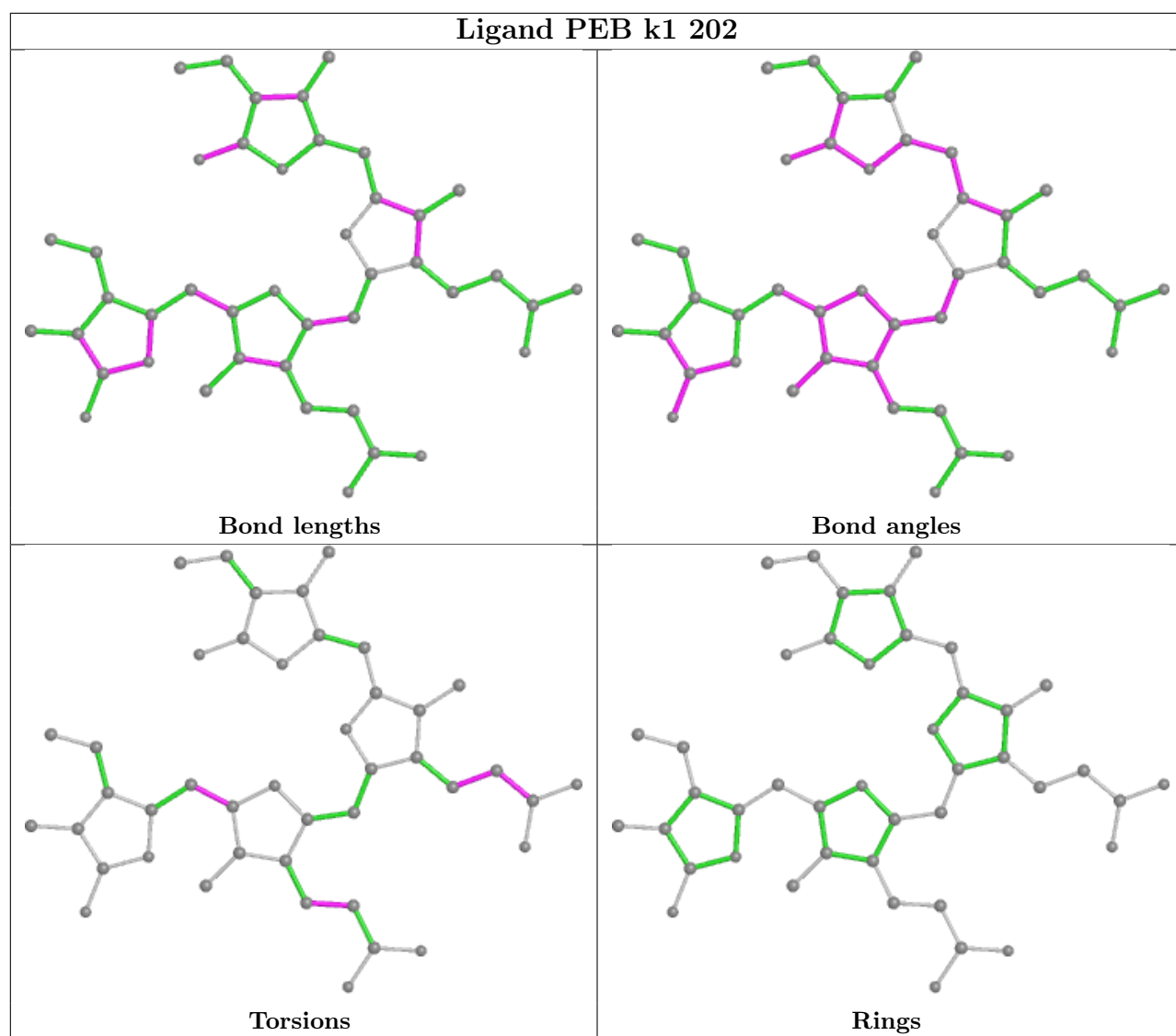
Rings

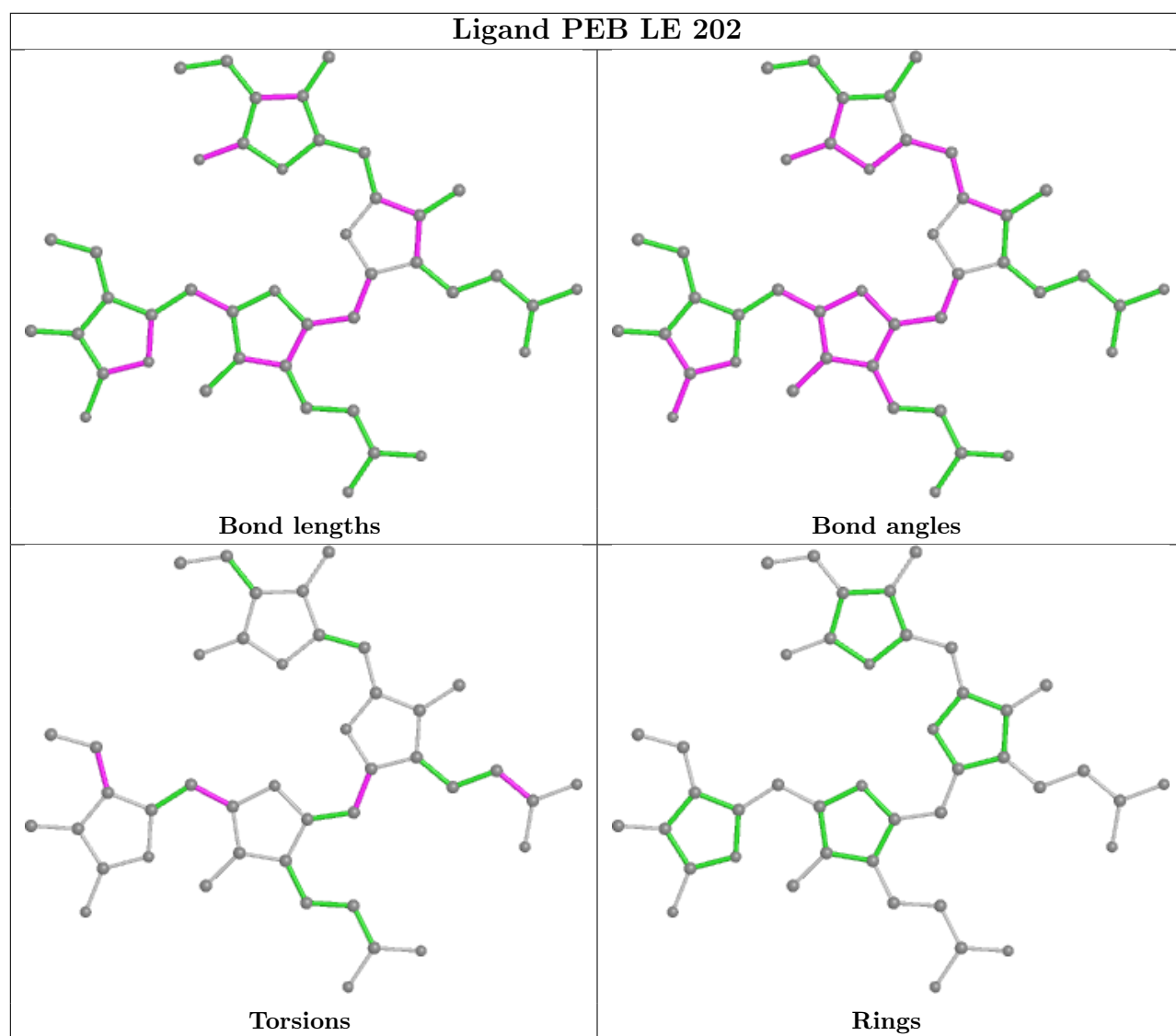
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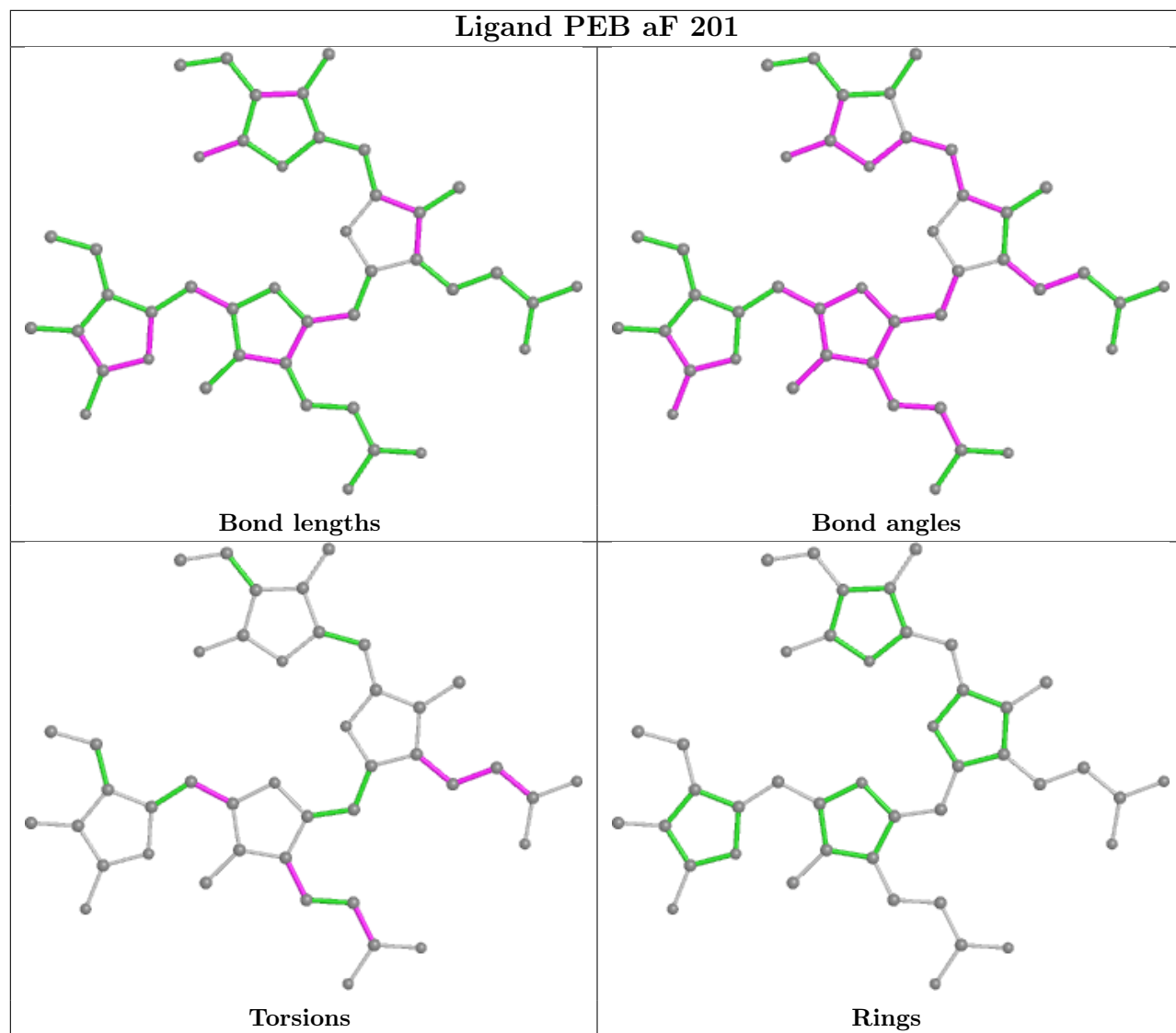


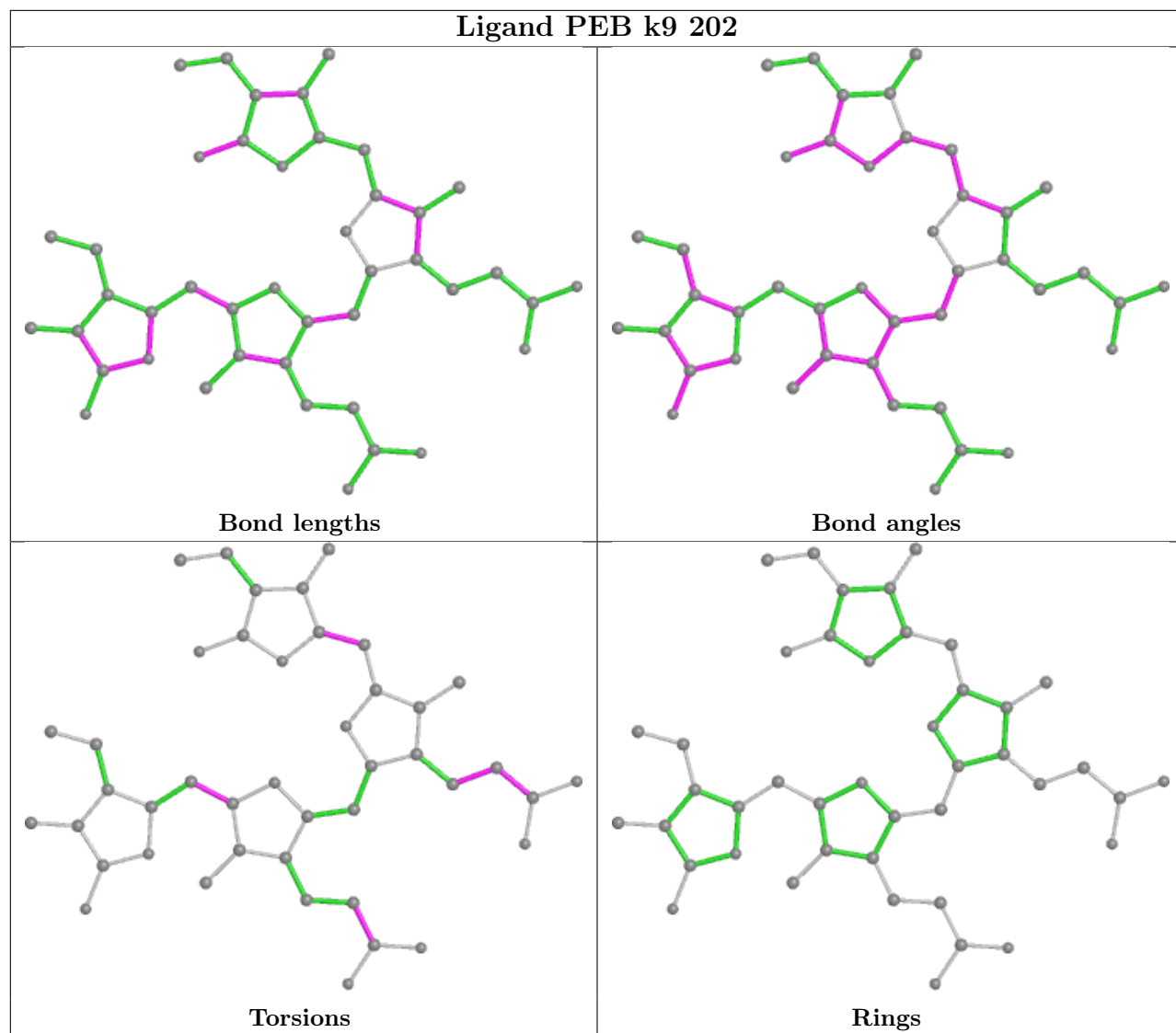
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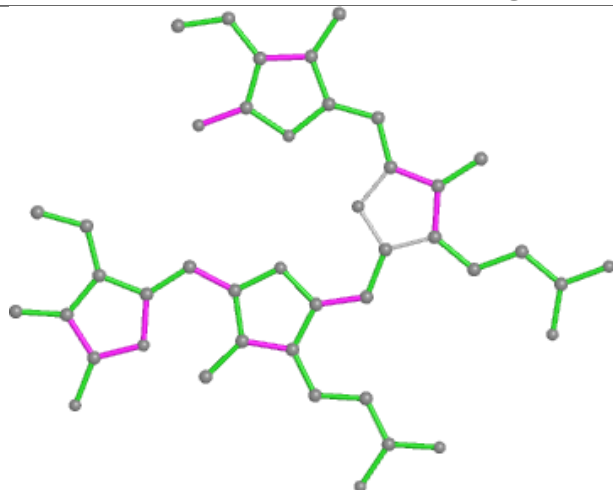




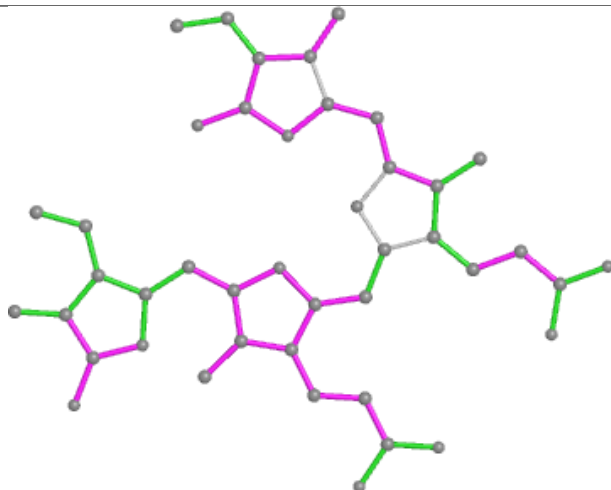




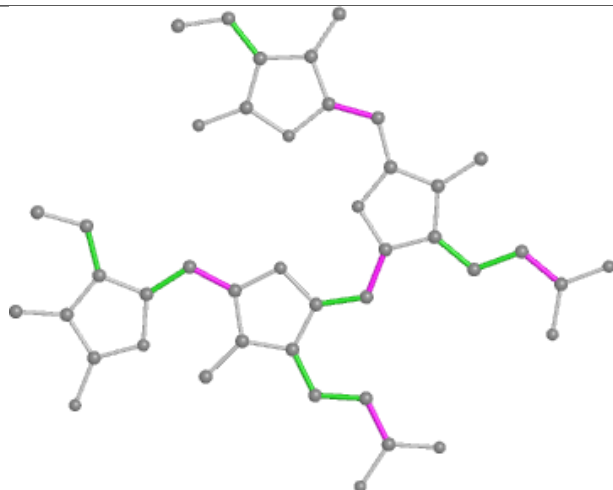
Ligand PEB A8 203



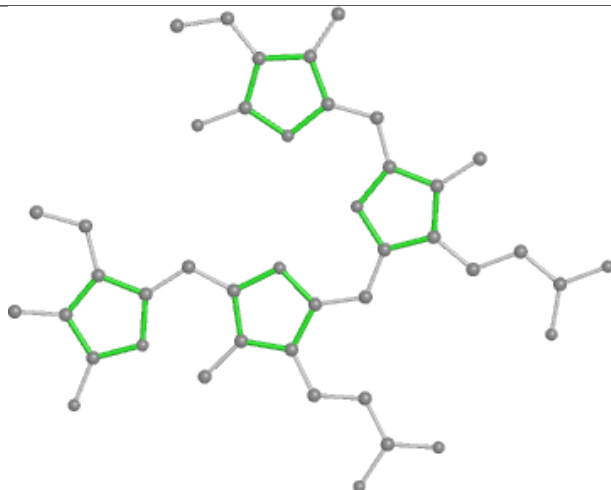
Bond lengths



Bond angles

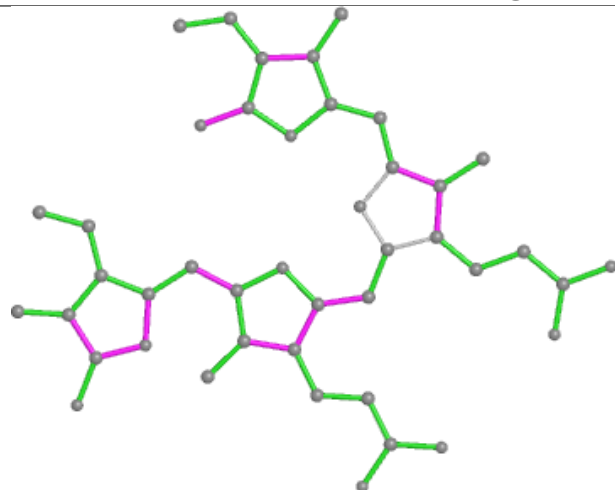


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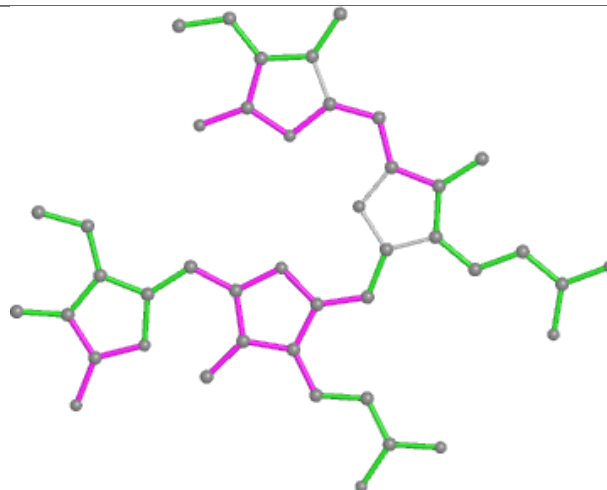


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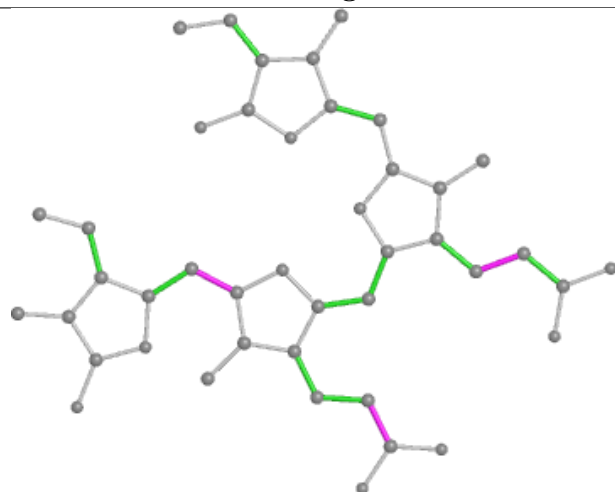
Ligand PEB JO 201



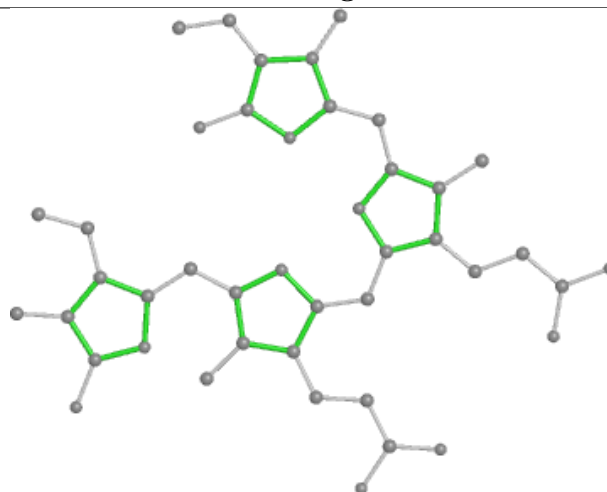
Bond lengths



Bond angles

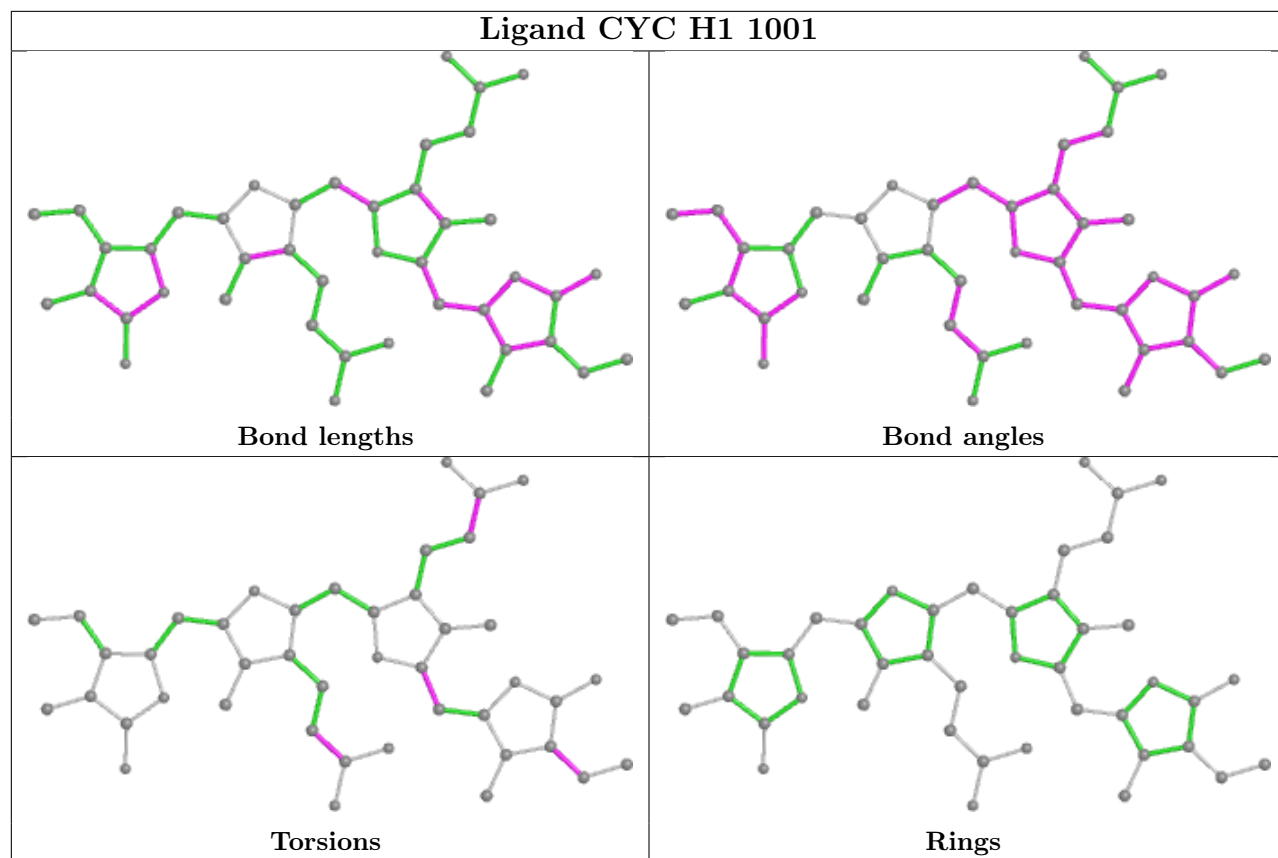


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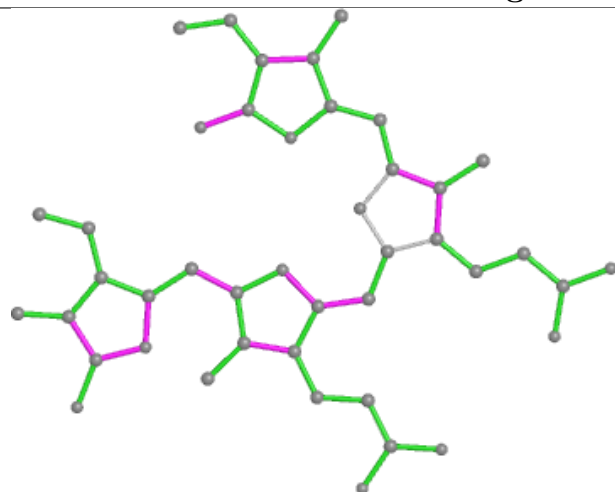


Rings

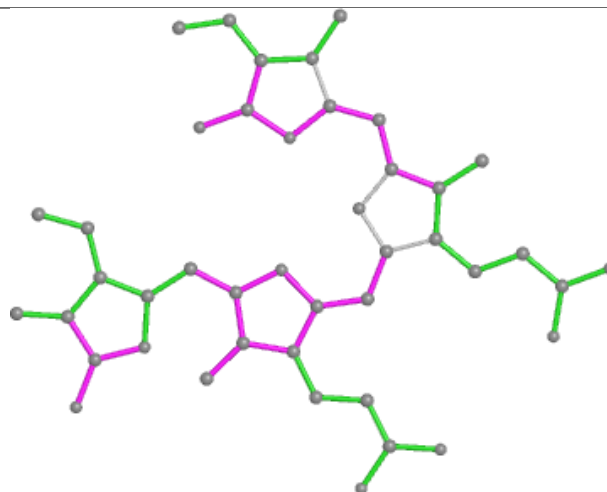
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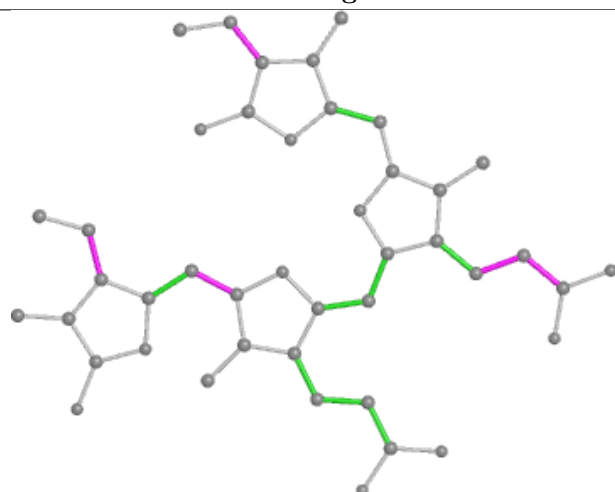
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Bond lengths



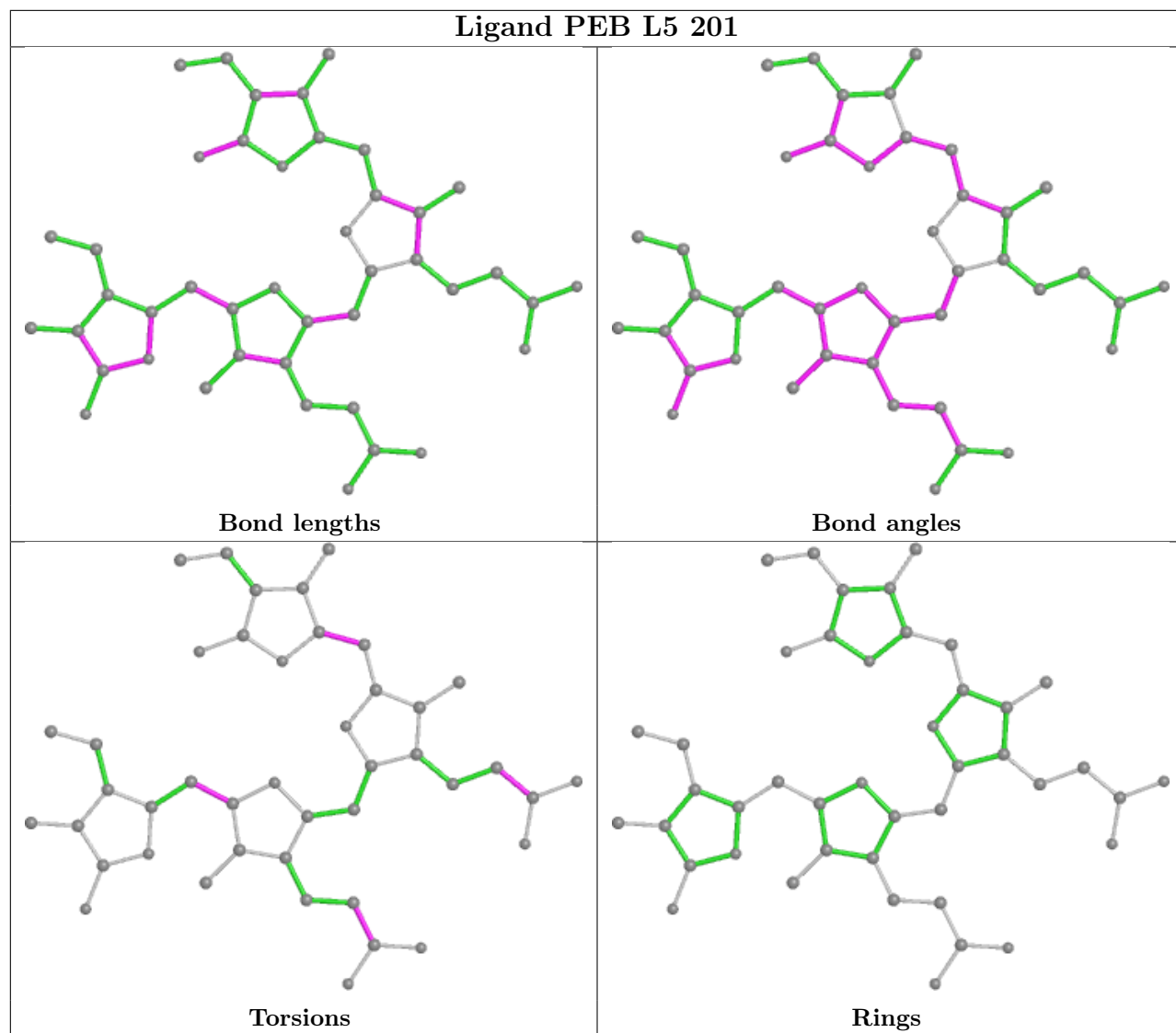
Bond angles



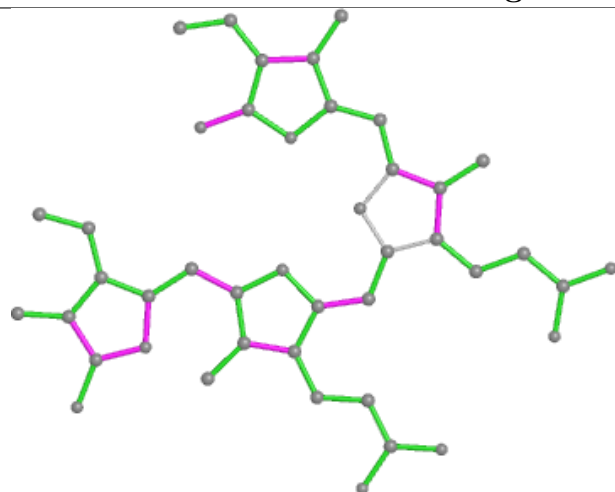
Torsions



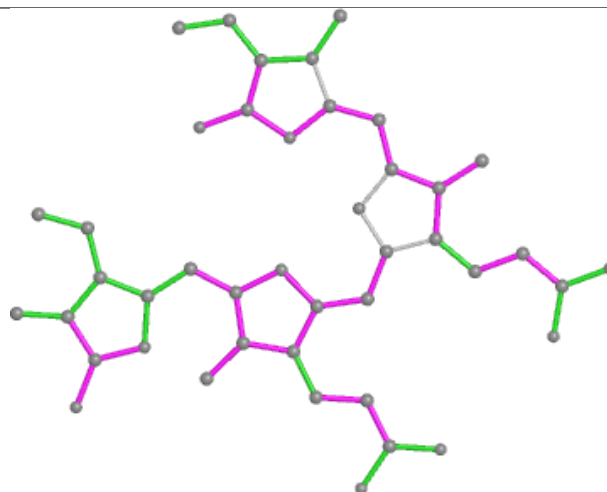
Rings



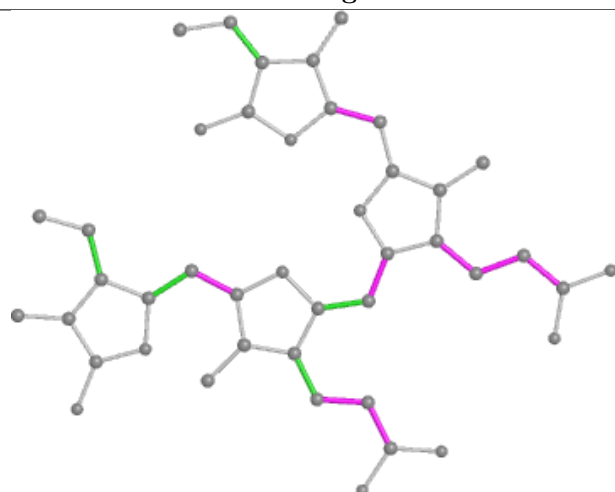
Ligand PEB RF 202



Bond lengths



Bond angles

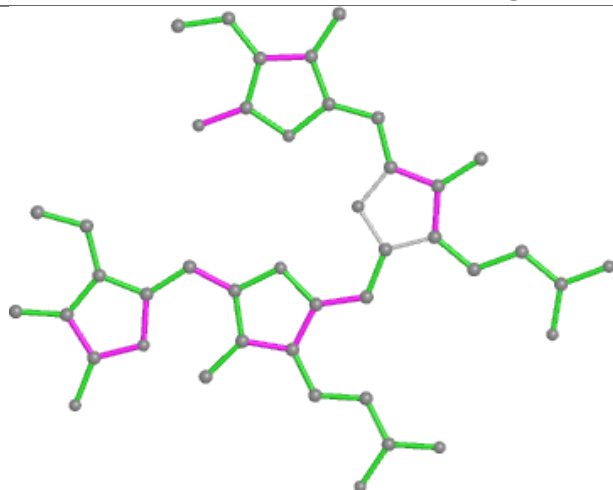


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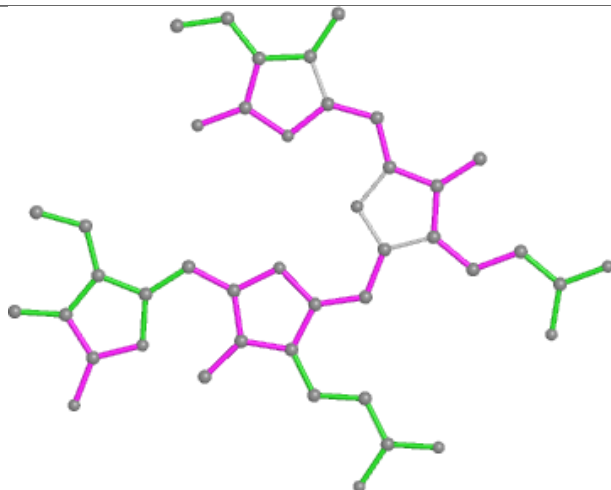


Rings

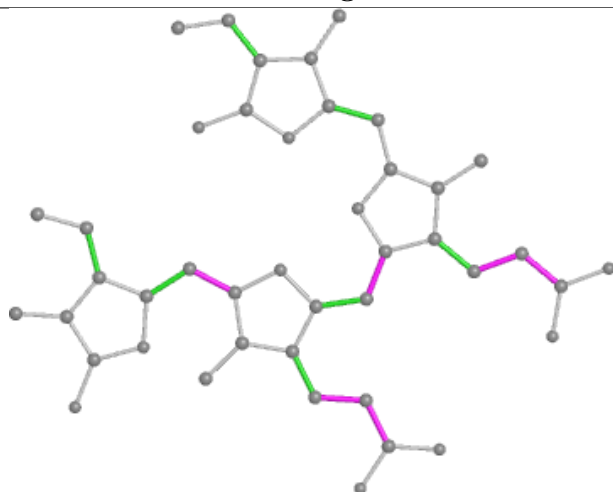
Ligand PEB dB 202



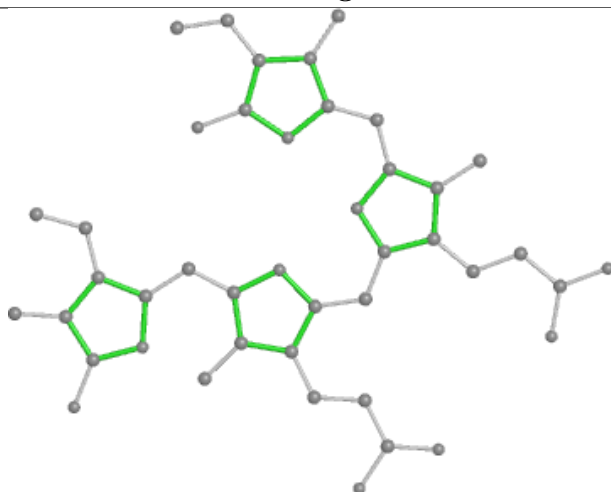
Bond lengths



Bond angles

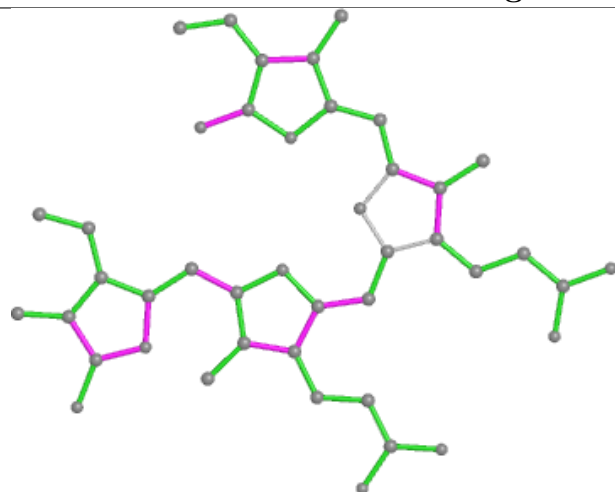


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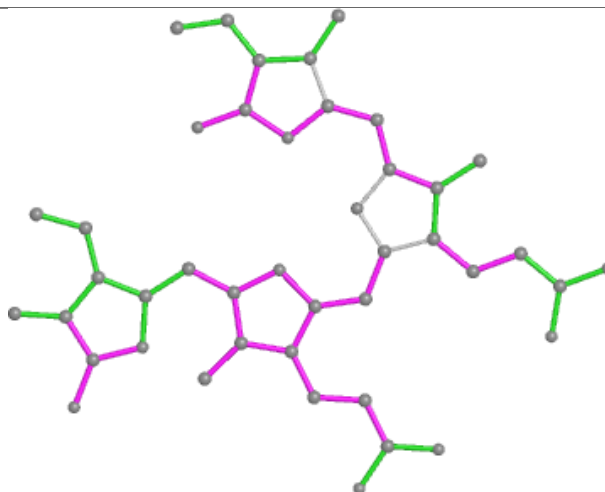


Rings

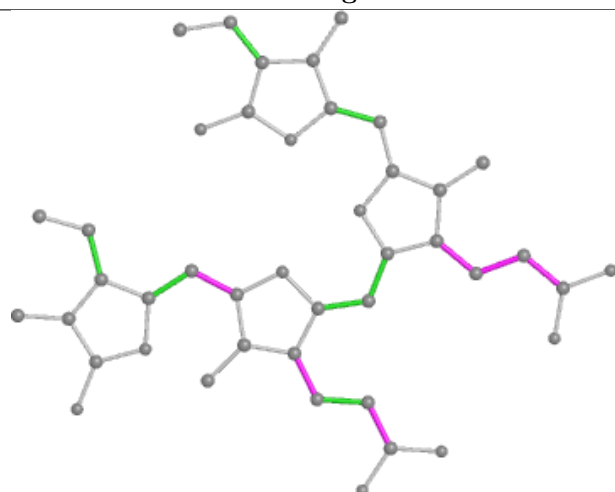
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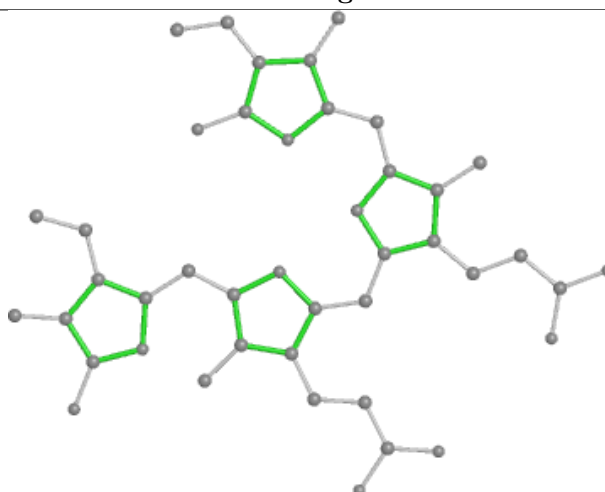
Bond lengths



Bond angles

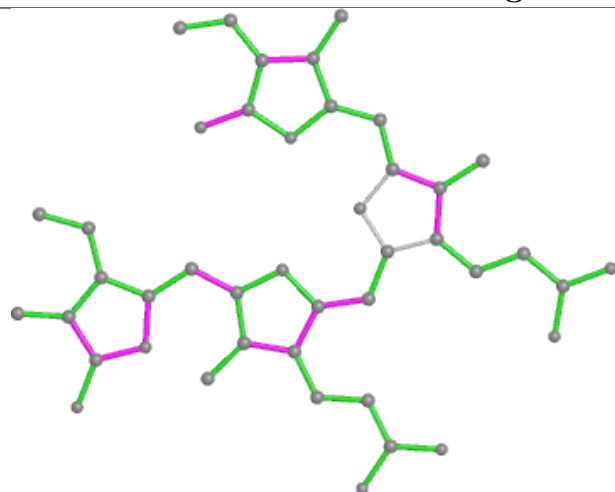


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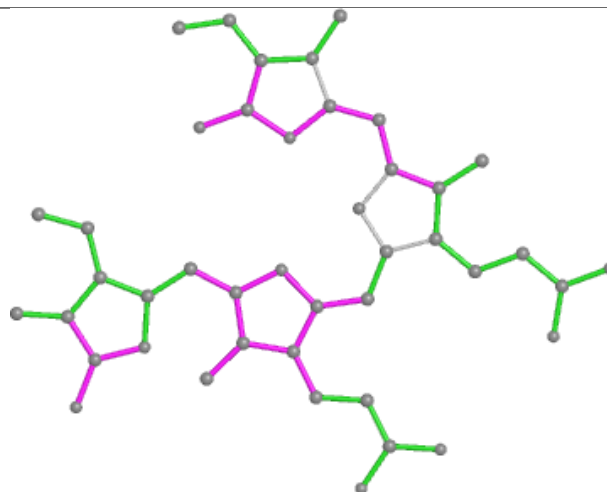


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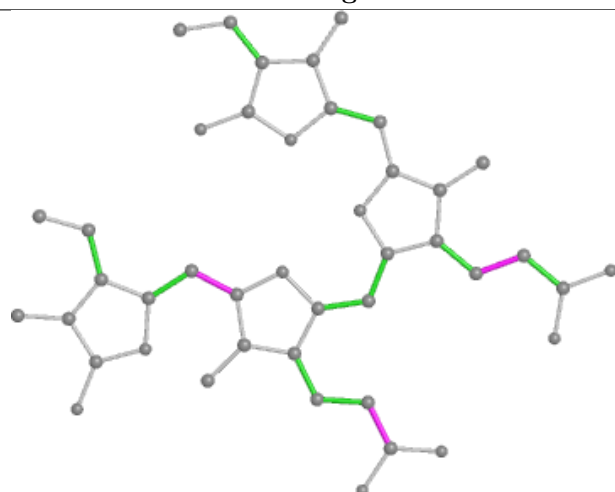
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Bond lengths



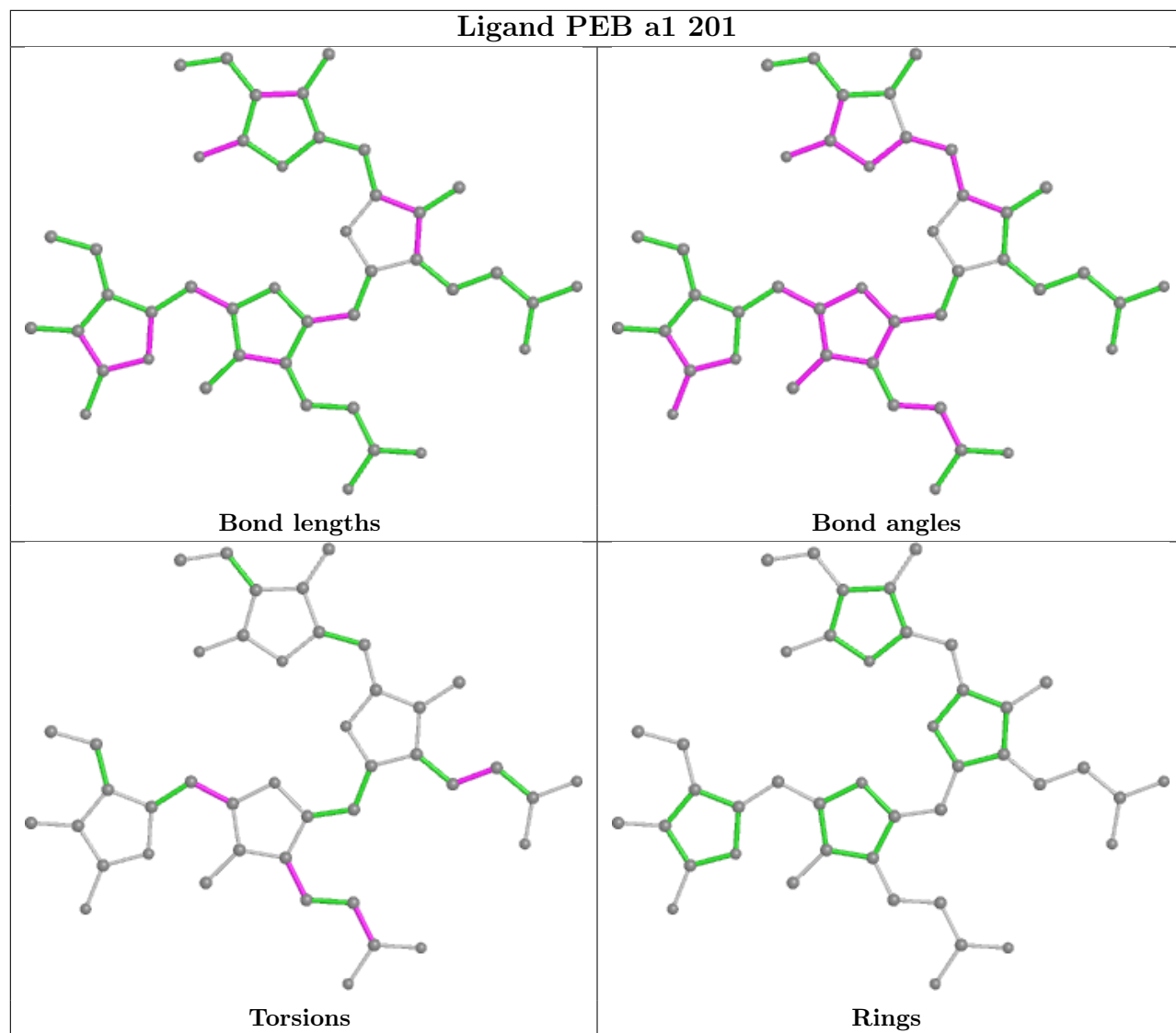
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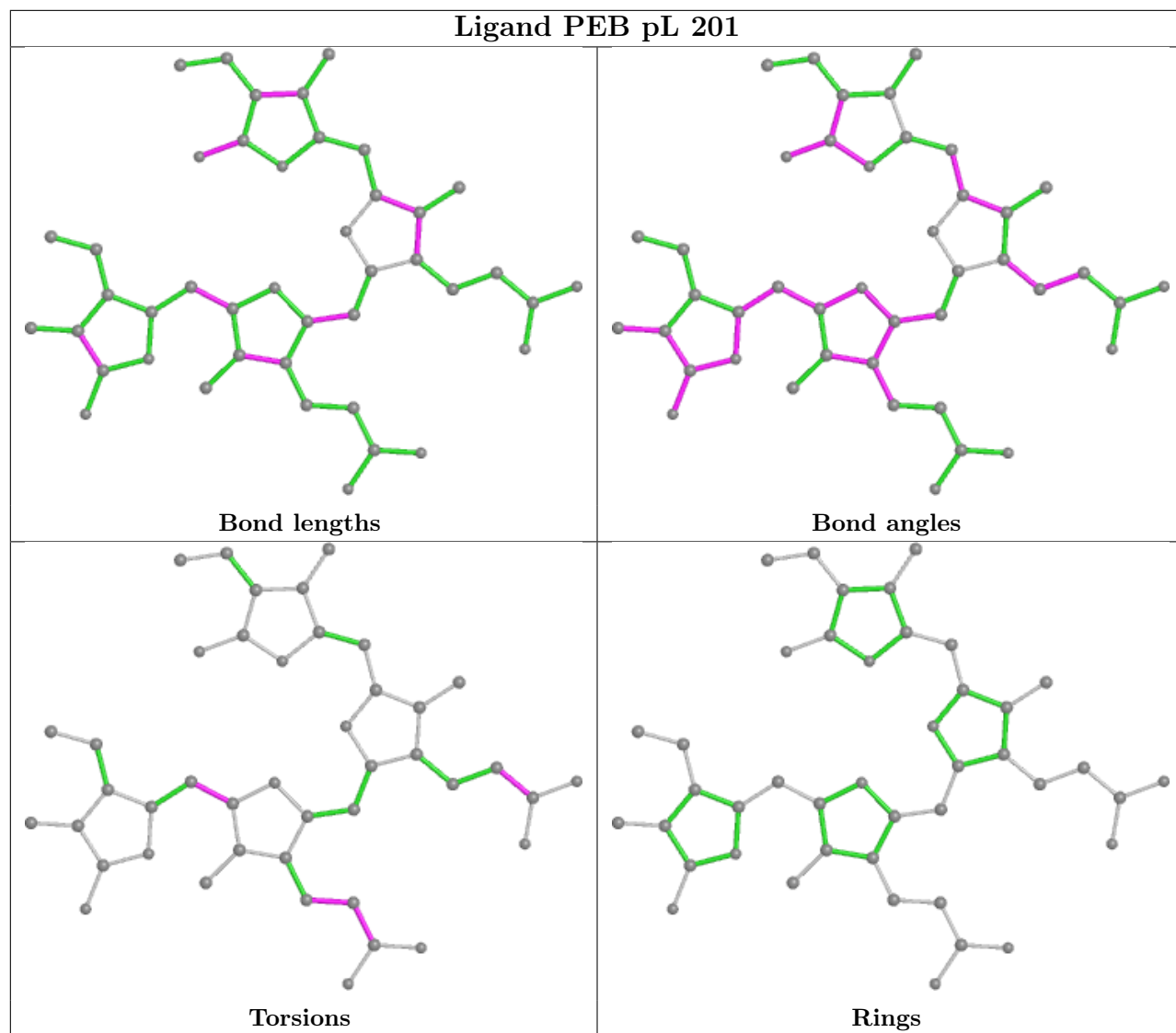


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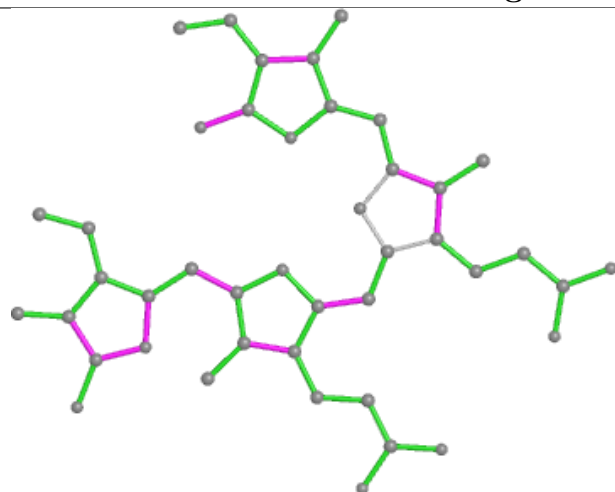


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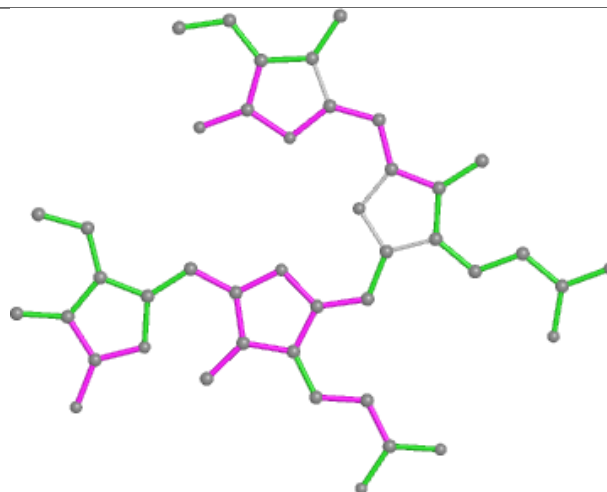




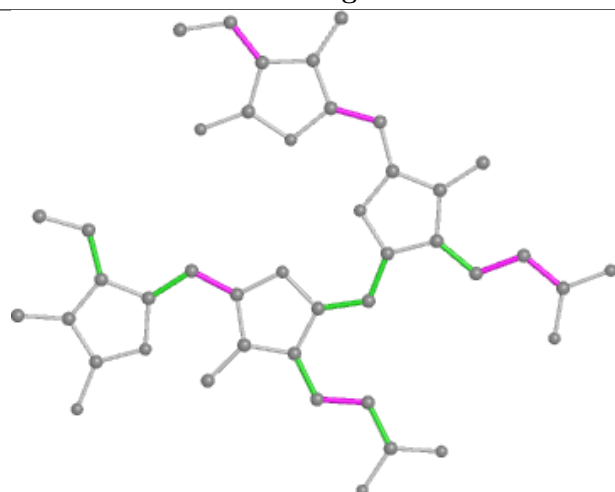
Ligand PEB FG 201



Bond lengths



Bond angles

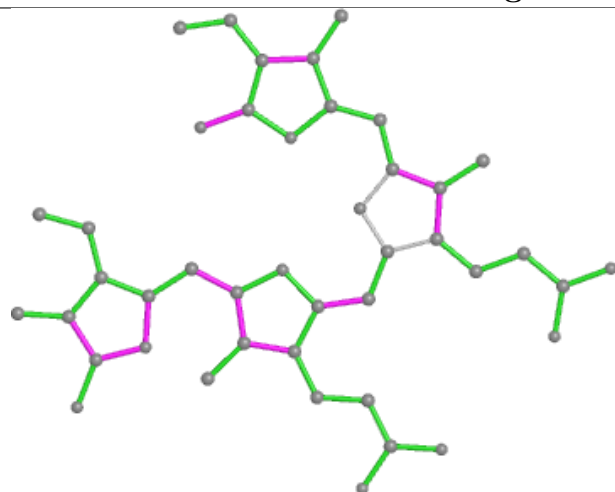


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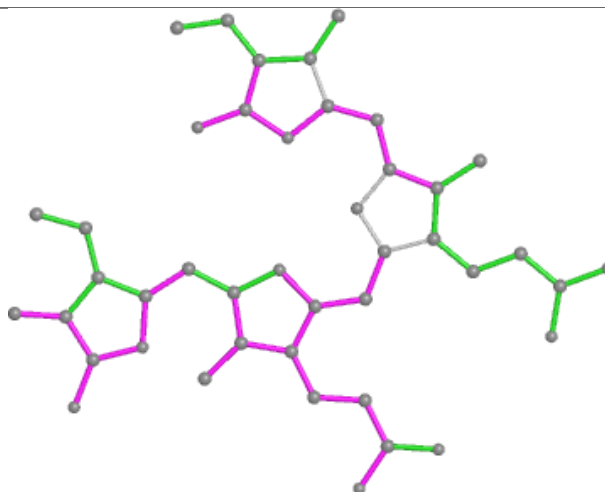


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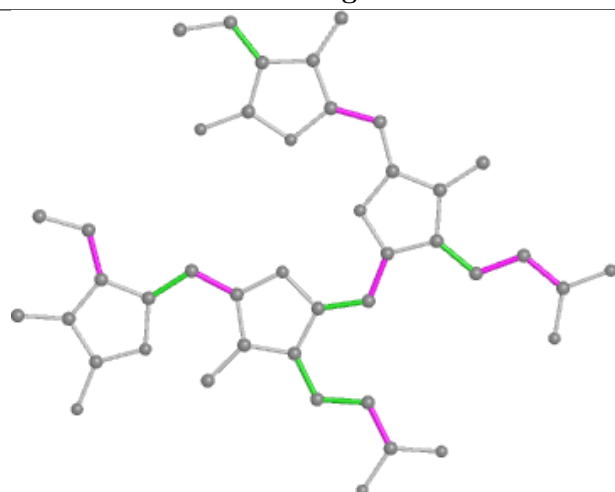
Ligand PEB cM 203



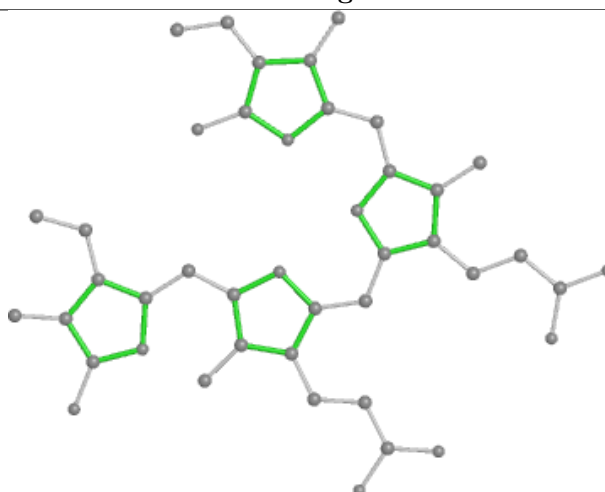
Bond lengths



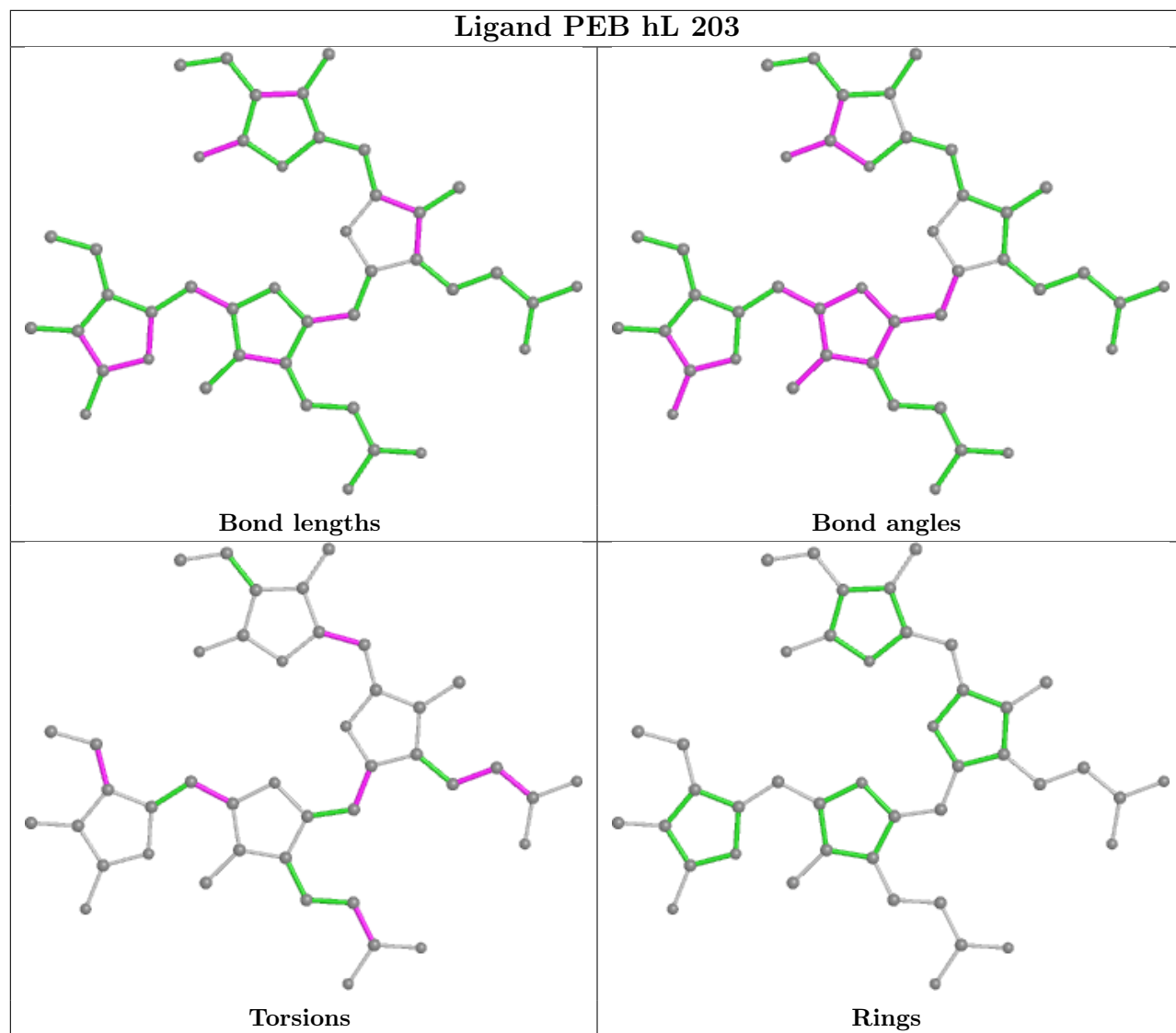
Bond angles

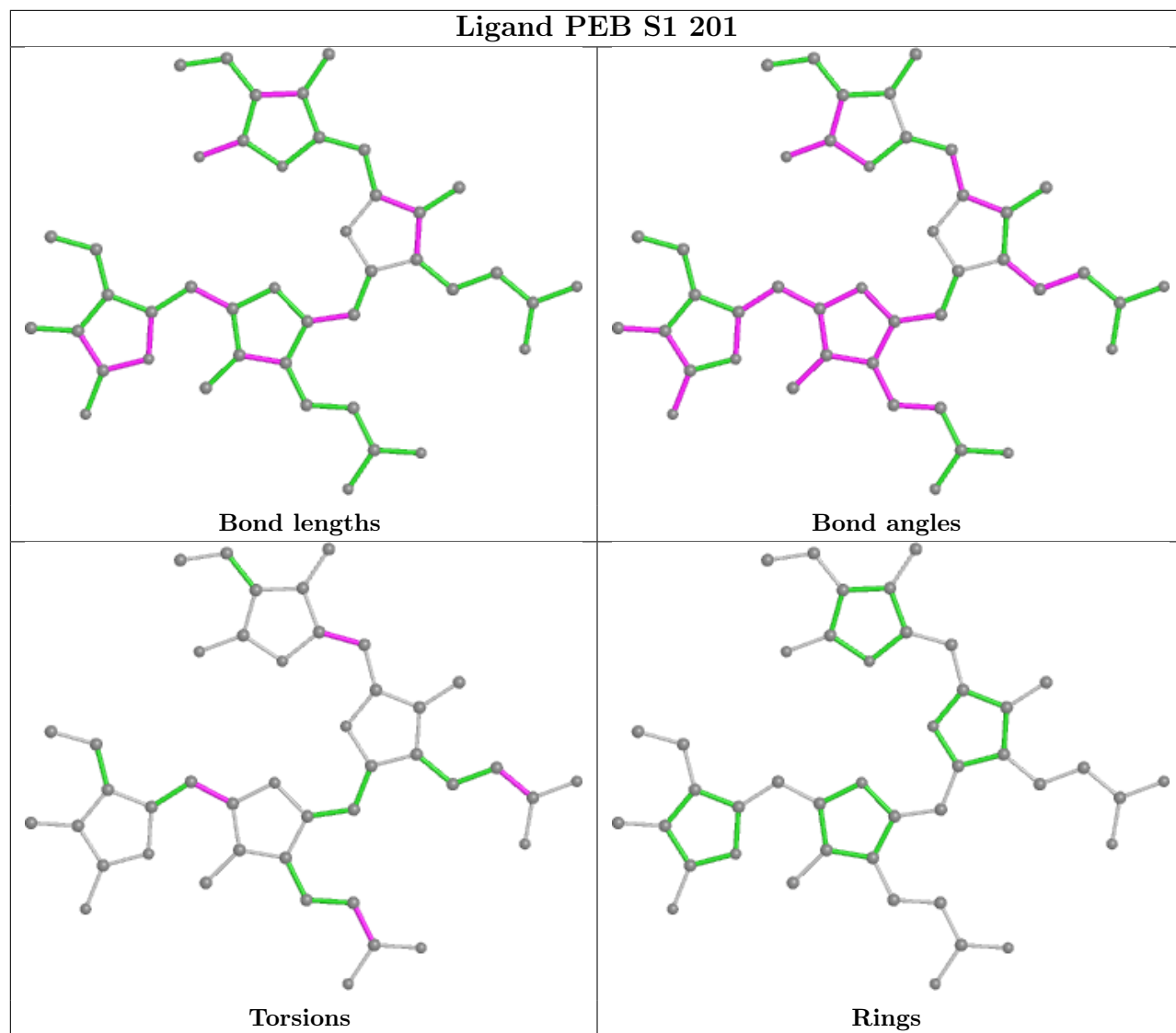


Torsions

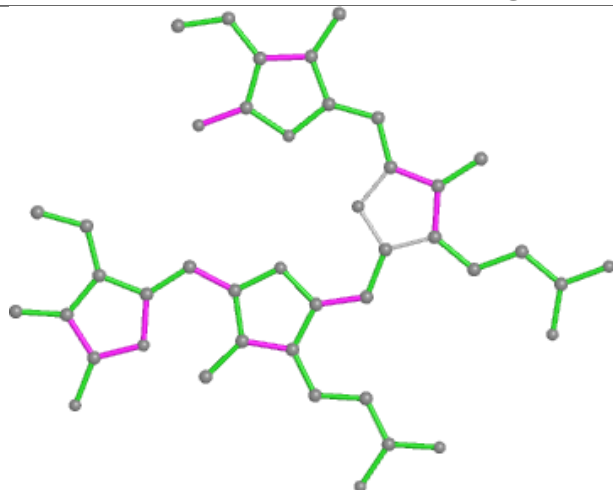


Rings

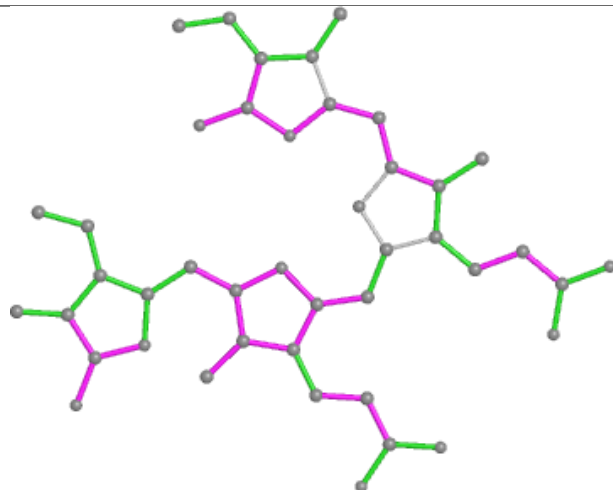




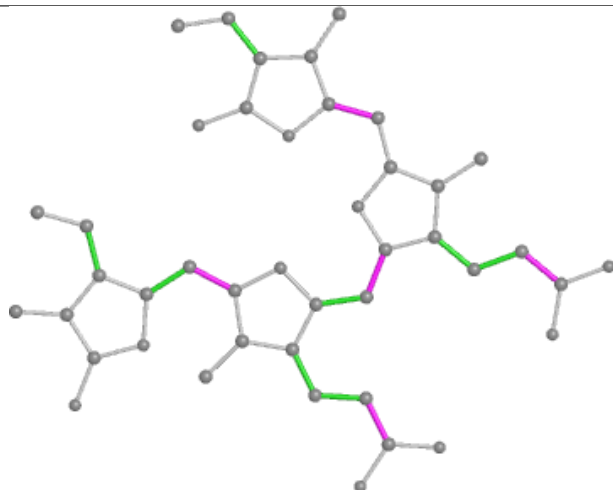
Ligand PEB K8 203



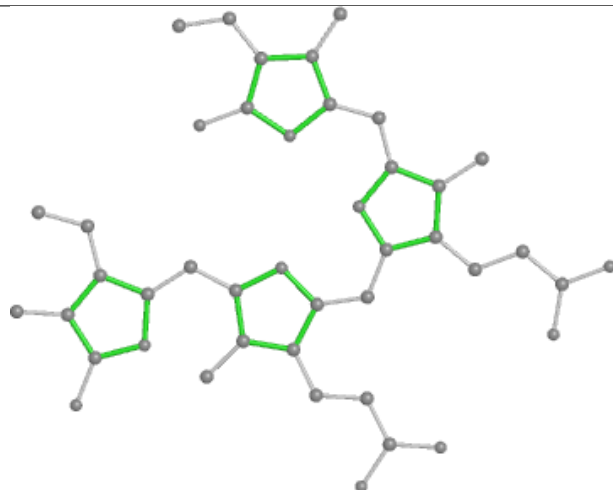
Bond lengths



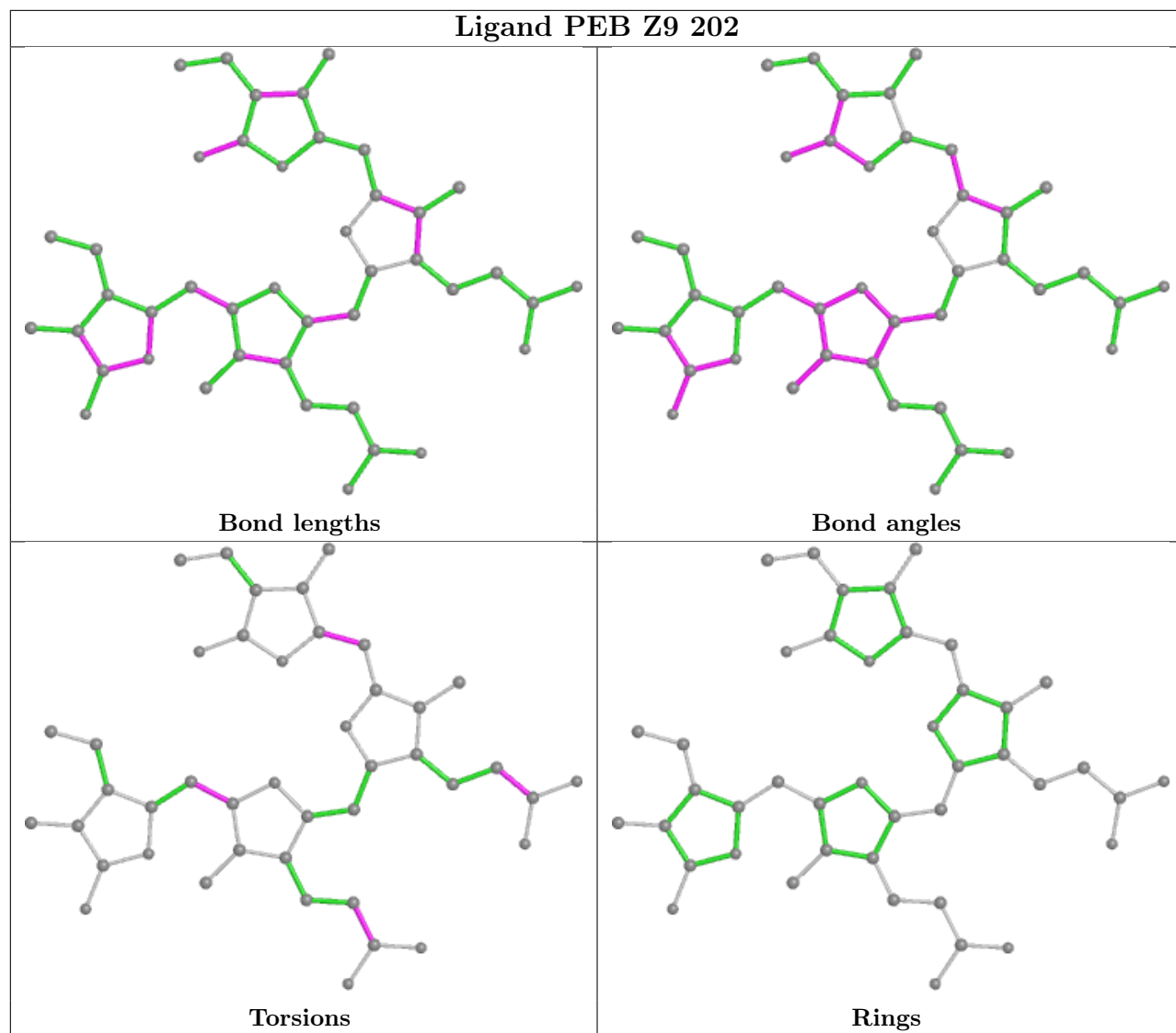
Bond angles

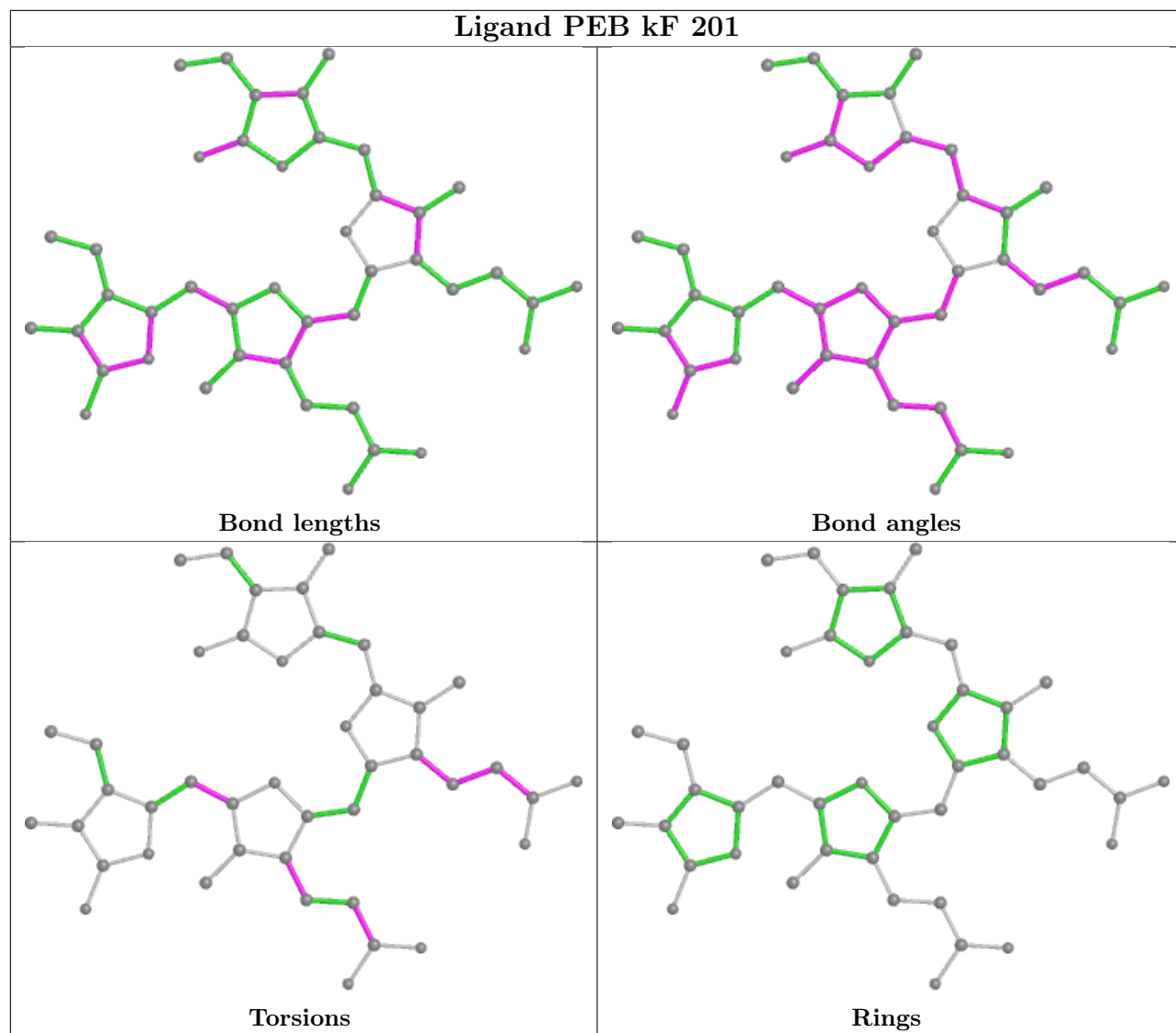


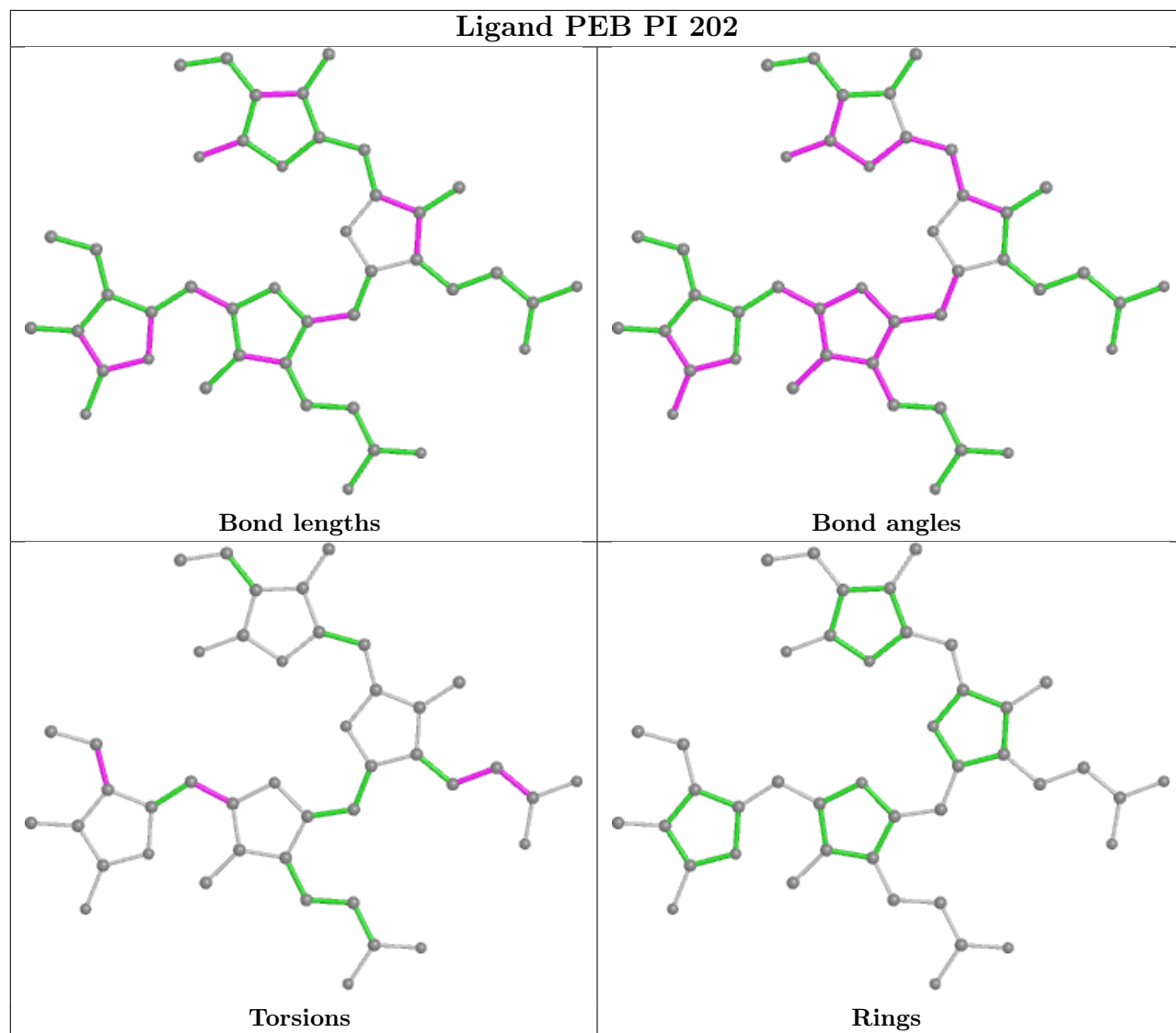
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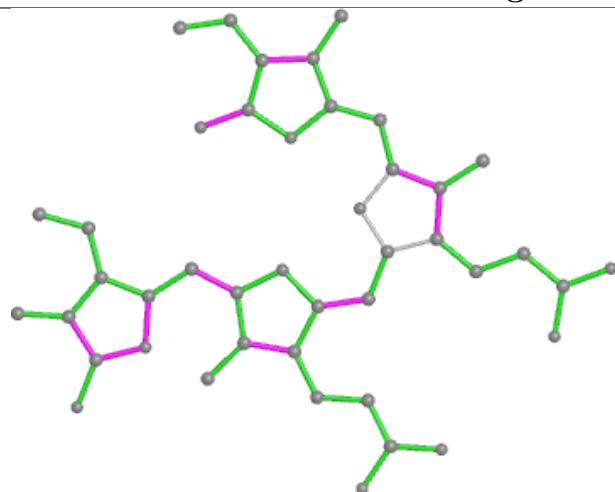
Rings



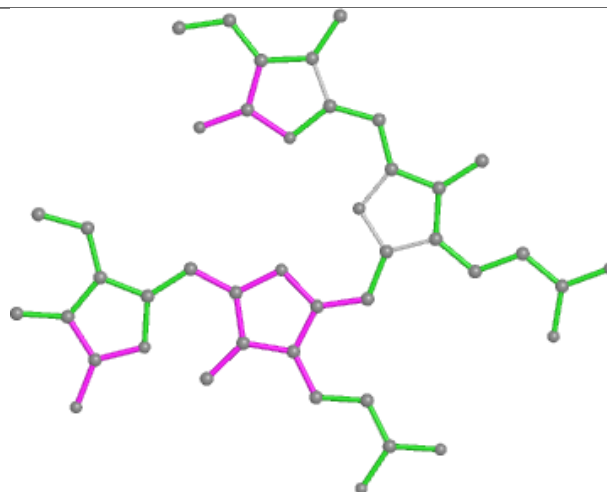




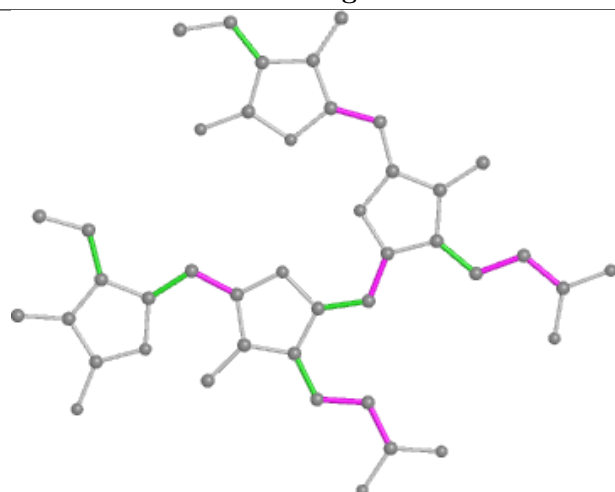
Ligand PEB H5 203



Bond lengths



Bond angles

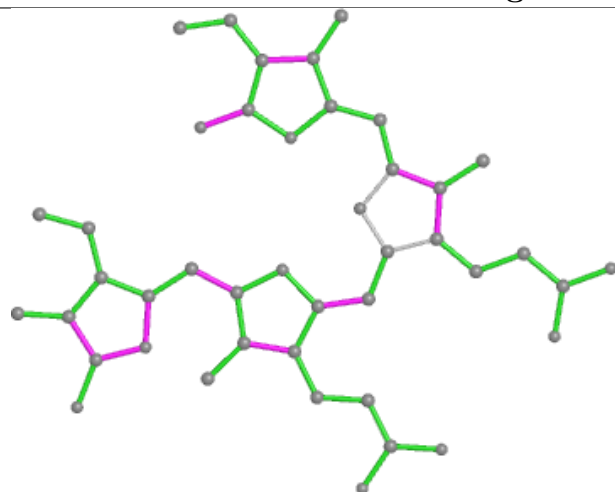


Torsions

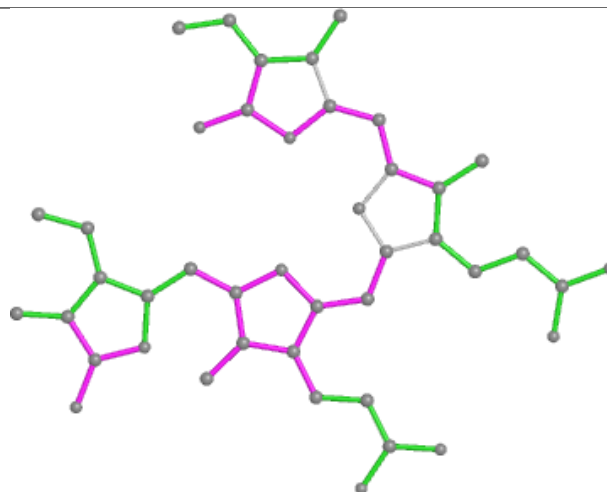


Rings

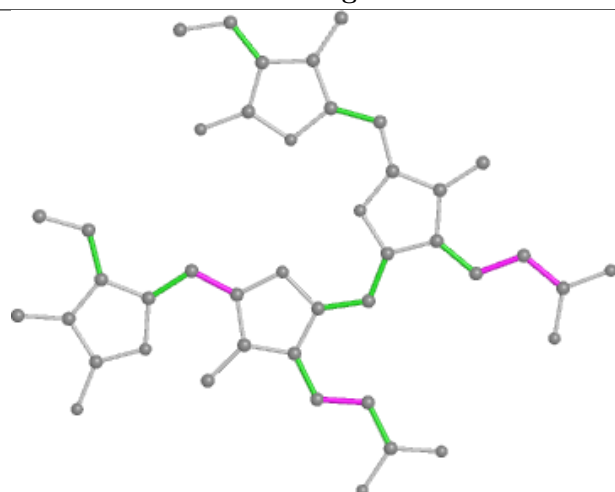
Ligand PEB kK 202



Bond lengths



Bond angles

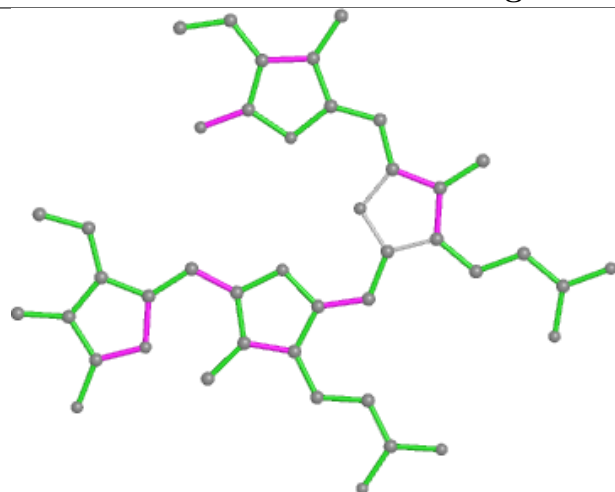


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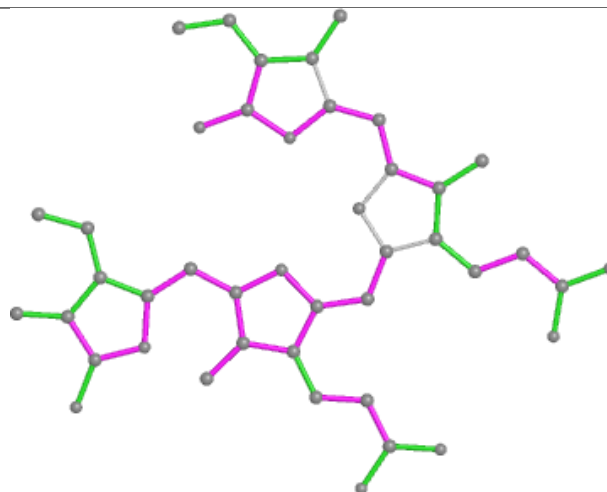


Rings

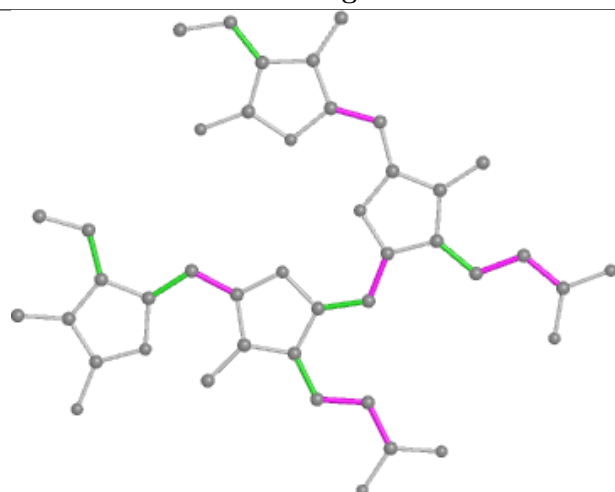
Ligand PEB FG 203



Bond lengths



Bond angles

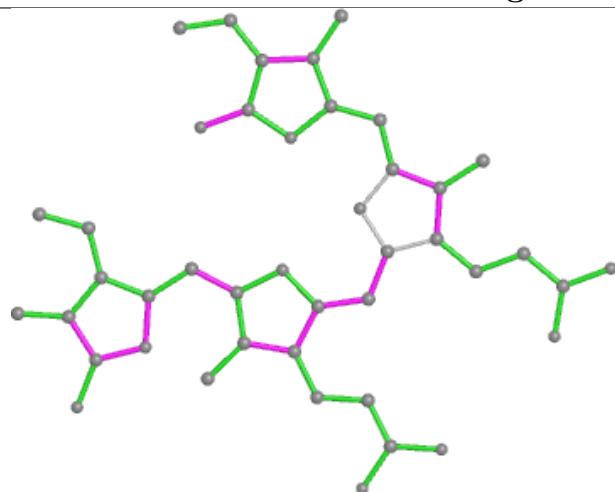


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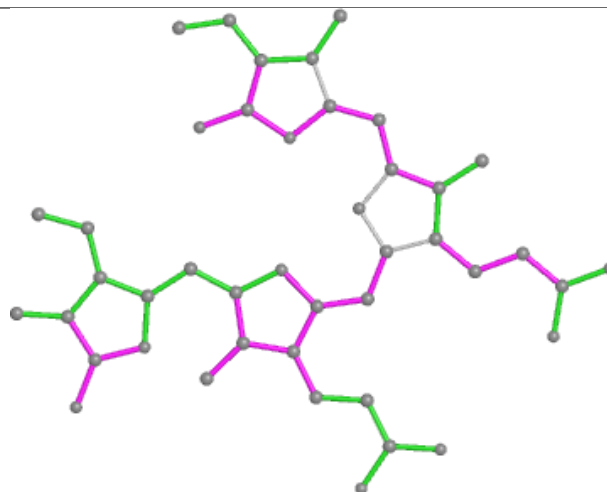


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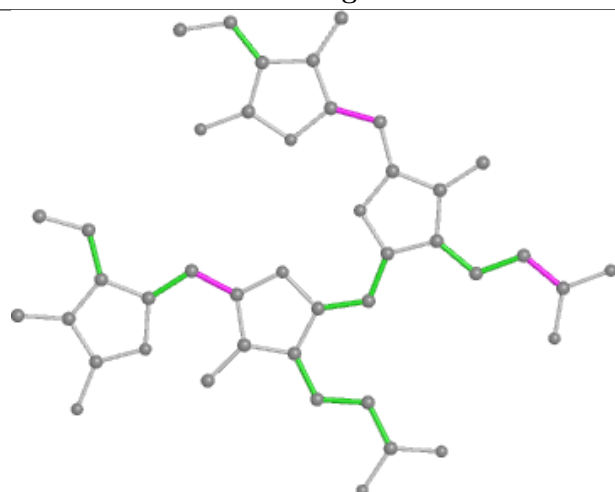
Ligand PEB FE 201



Bond lengths



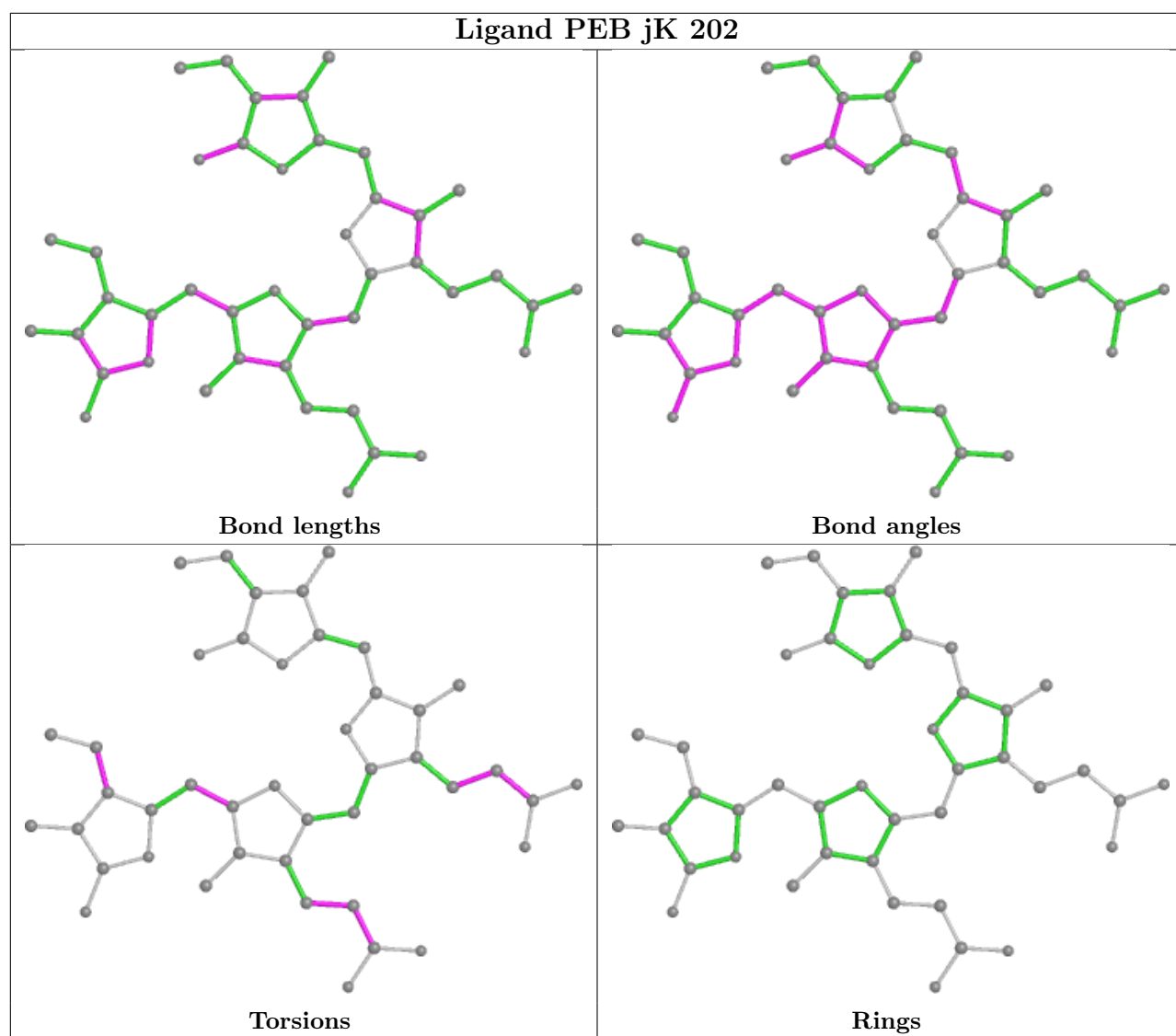
Bond angles



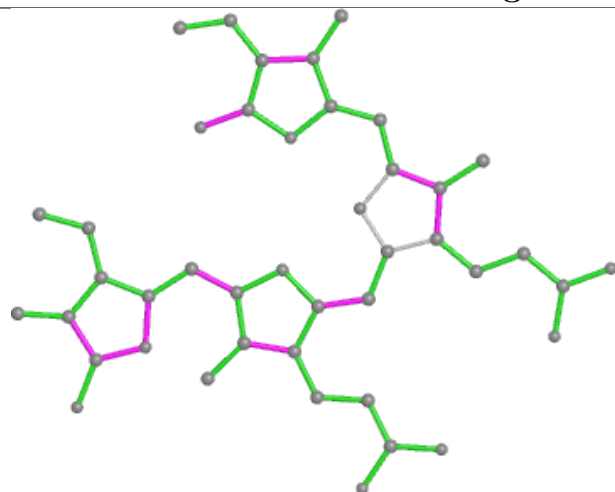
Torsions



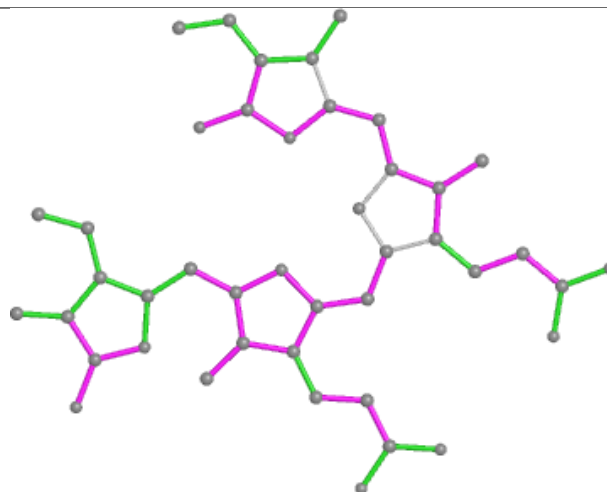
Rings



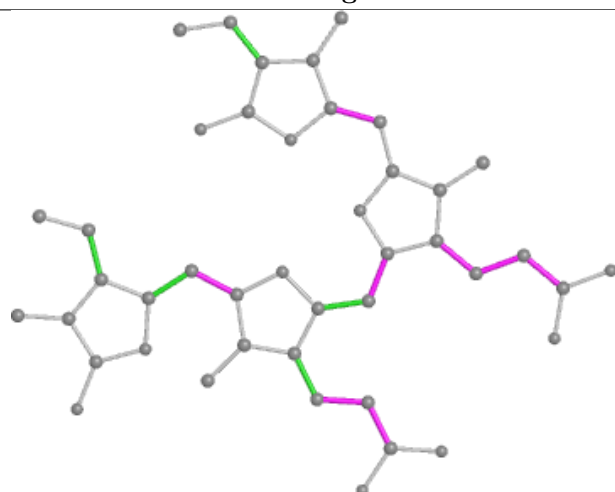
Ligand PEB mF 203



Bond lengths



Bond angles

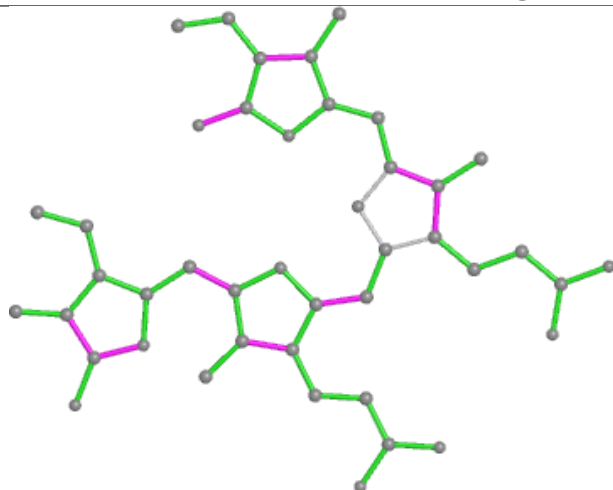


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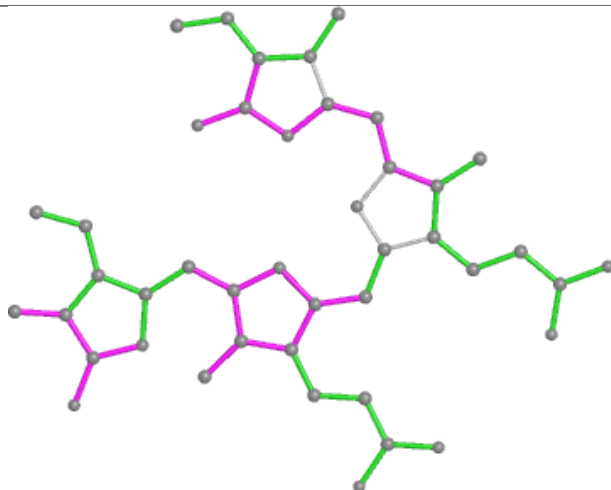


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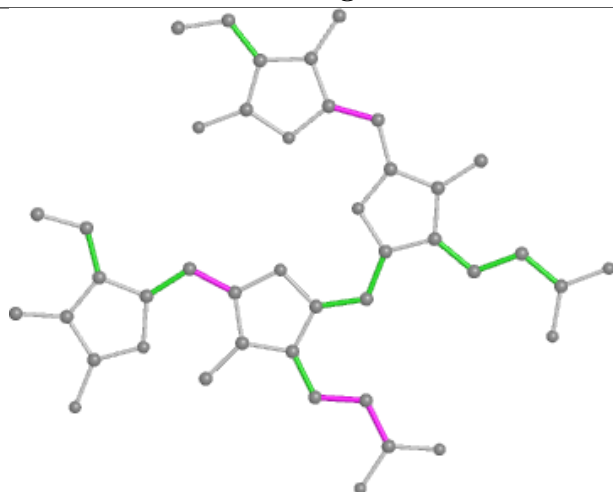
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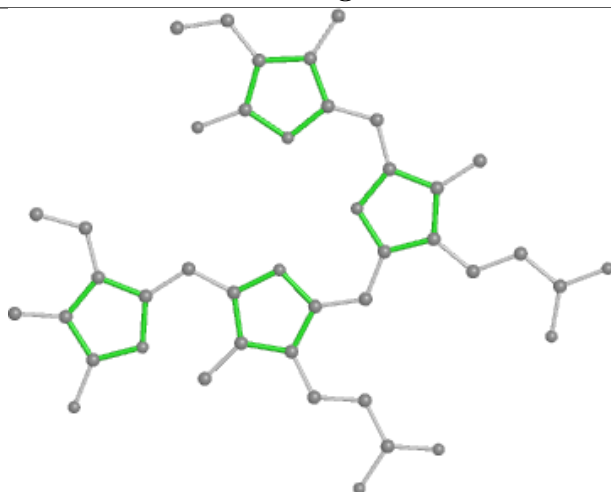
Bond lengths



Bond angles

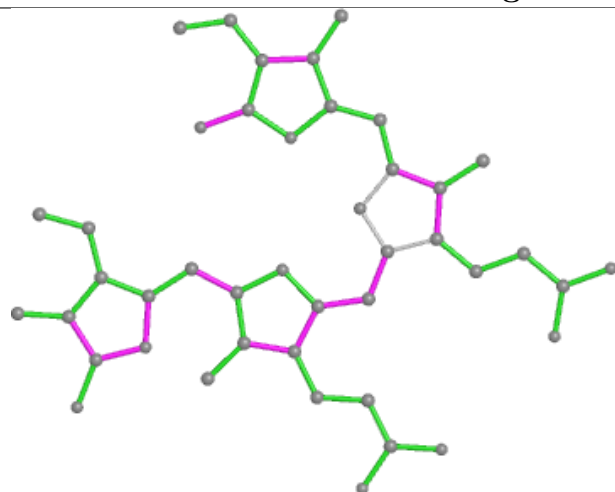


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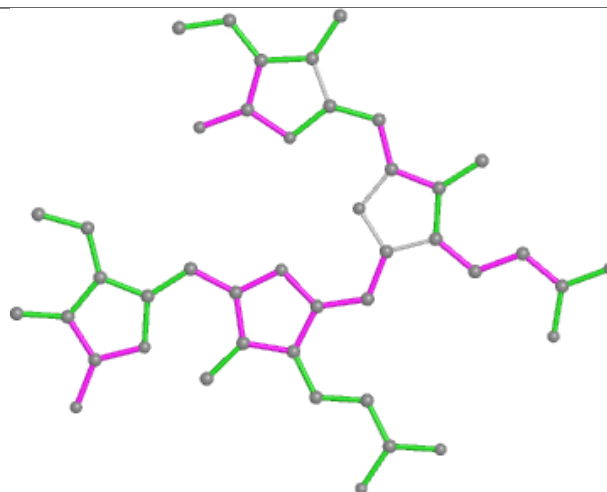


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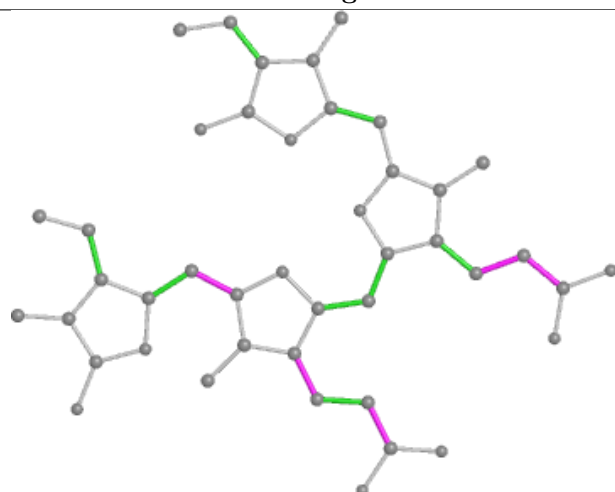
Ligand PEB XR 201



Bond lengths



Bond angles

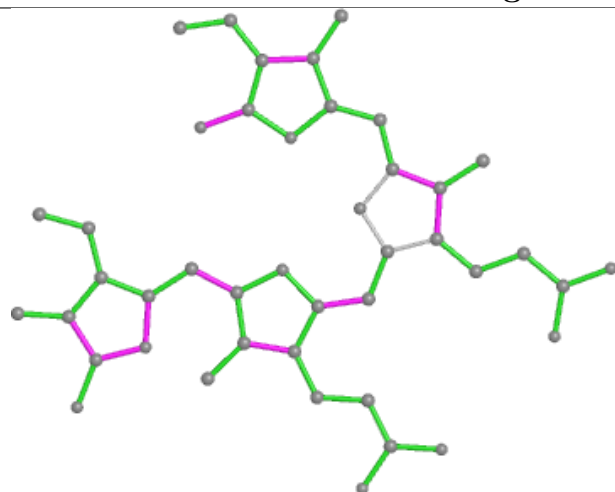


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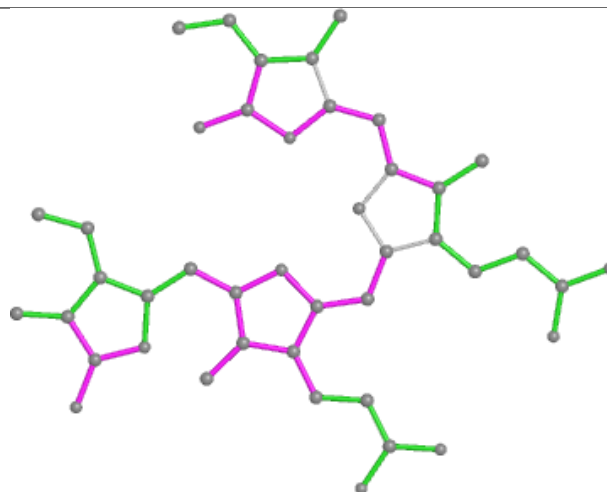


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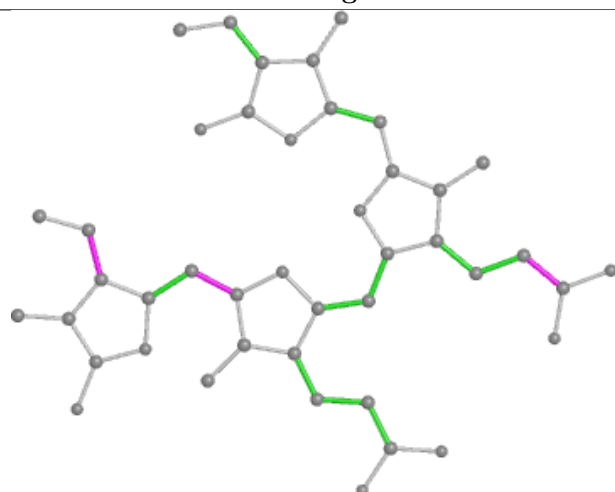
Ligand PEB VB 202



Bond lengths



Bond angles

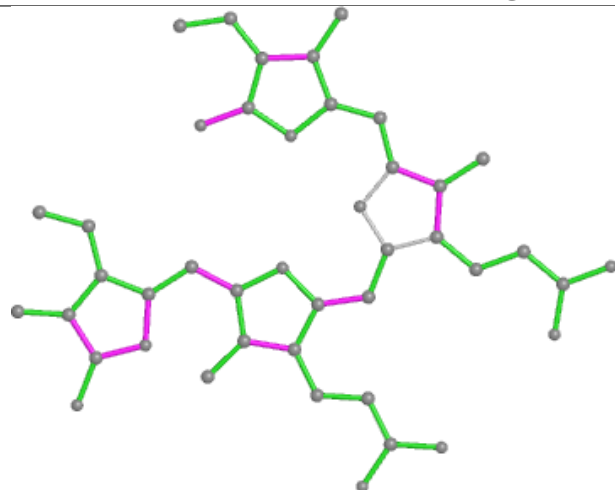


Torsions

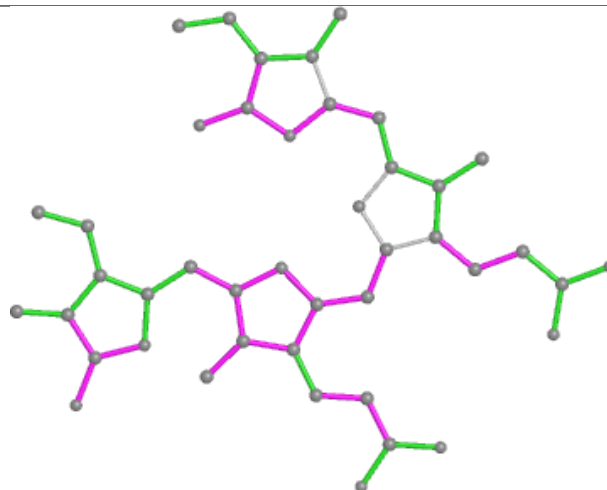


Rings

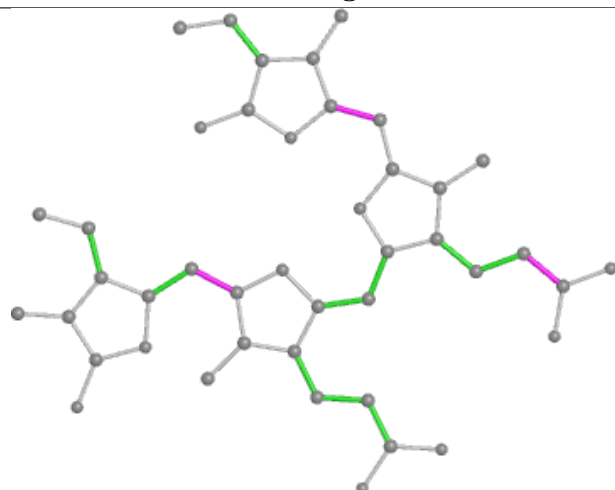
Ligand PEB VB 201



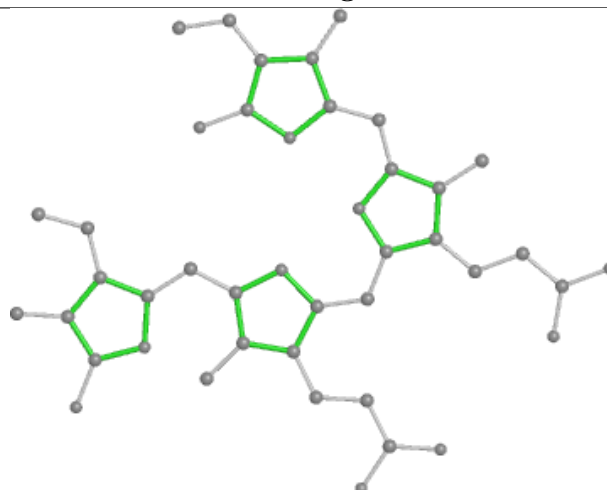
Bond lengths



Bond angles

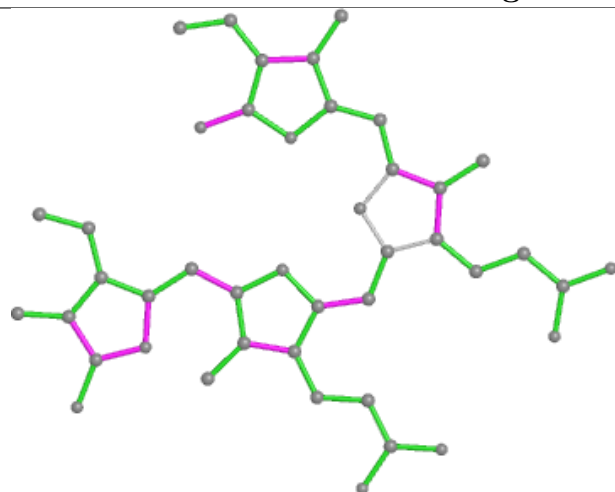


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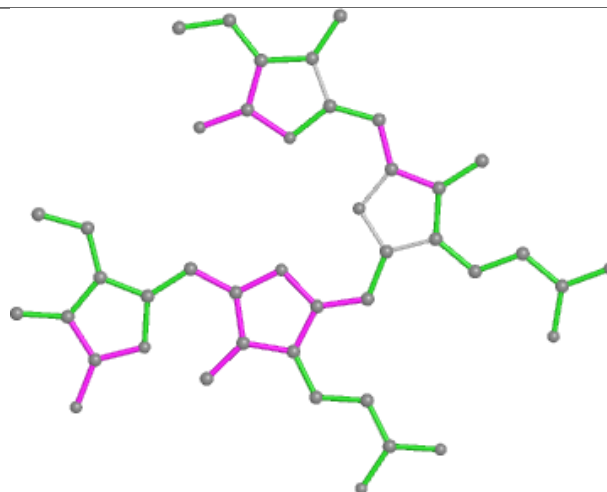


Rings

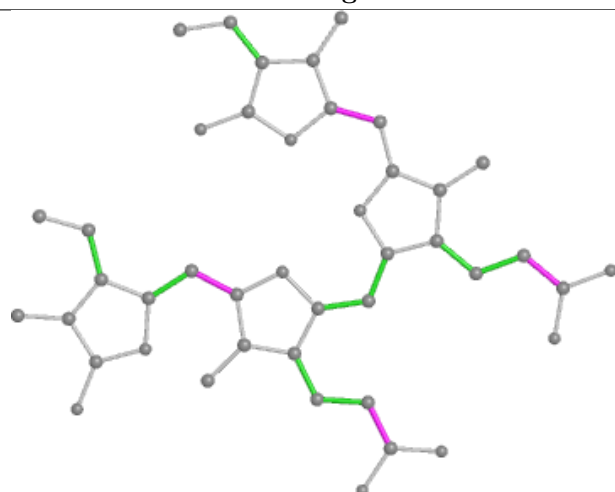
Ligand PEB W7 202



Bond lengths



Bond angles

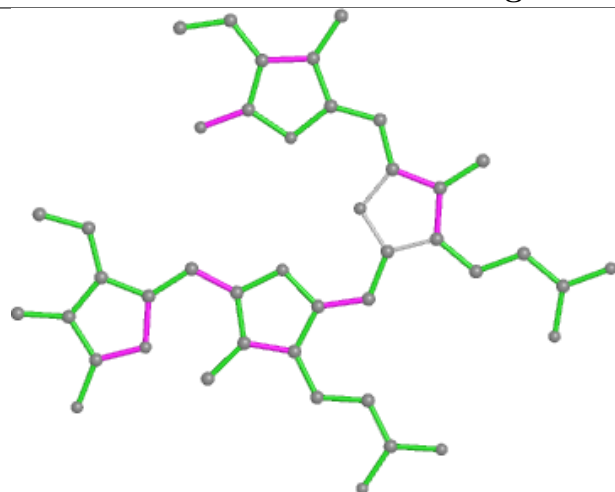


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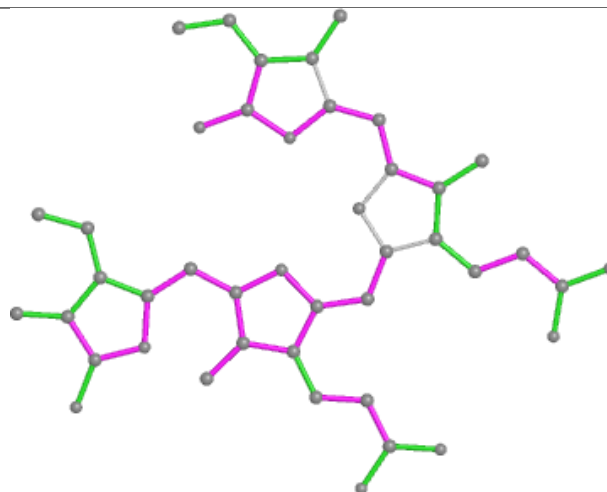


Rings

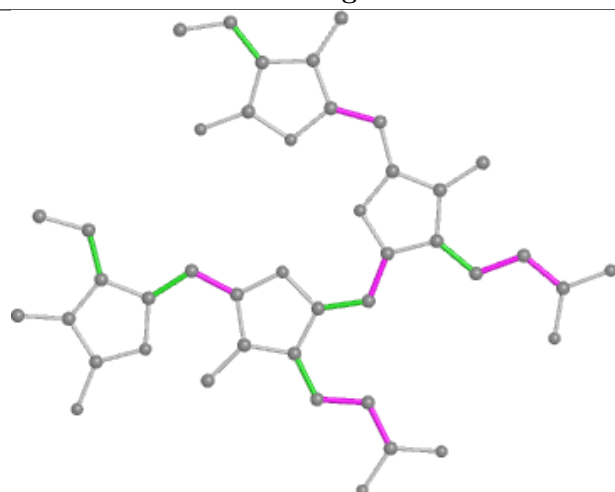
Ligand PEB LG 203



Bond lengths



Bond angles

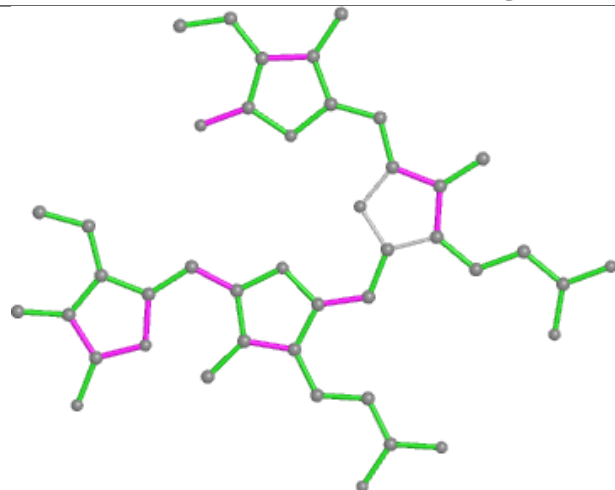


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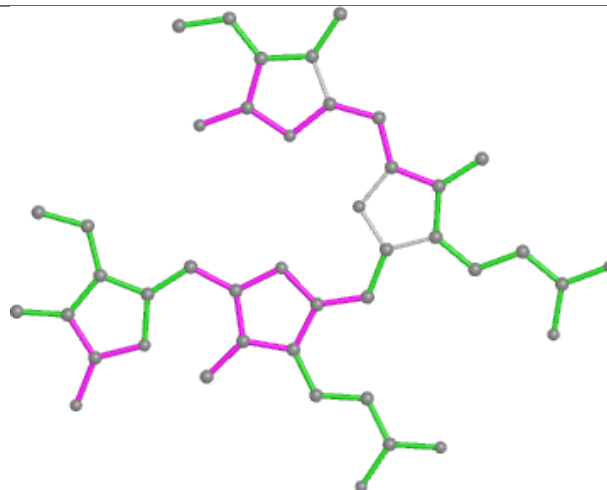


Rings

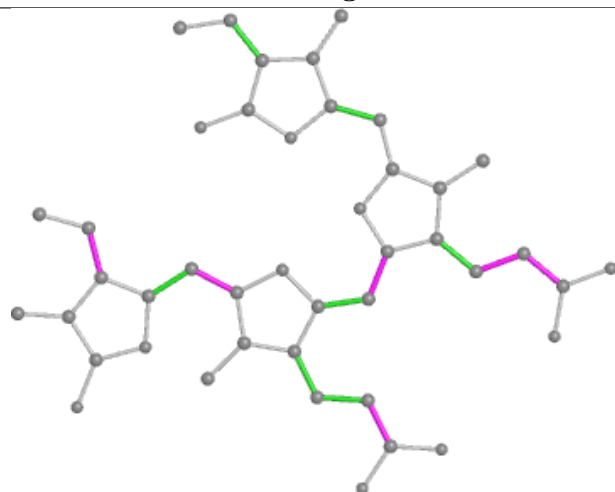
Ligand PEB WL 203



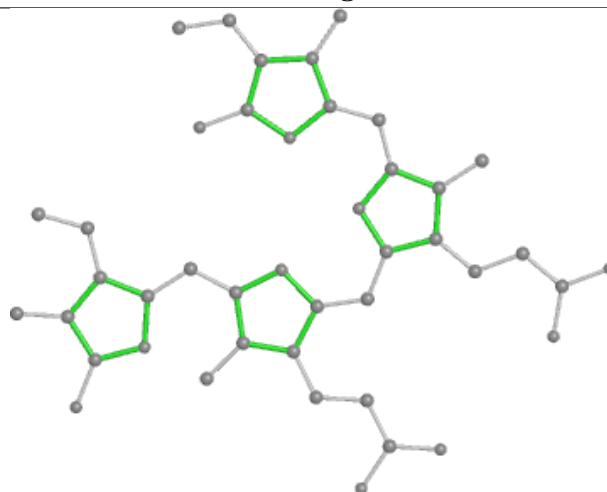
Bond lengths



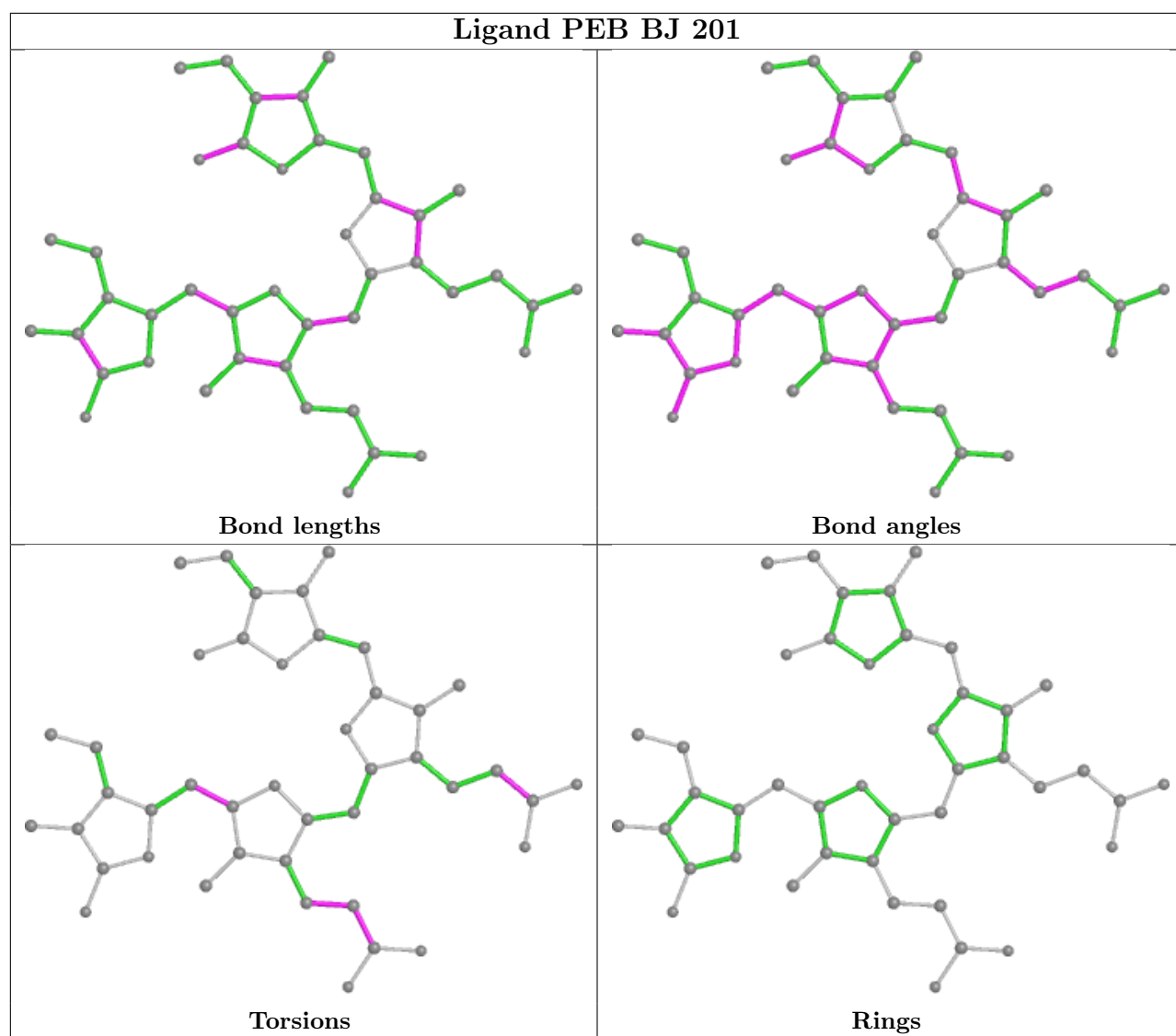
Bond angles

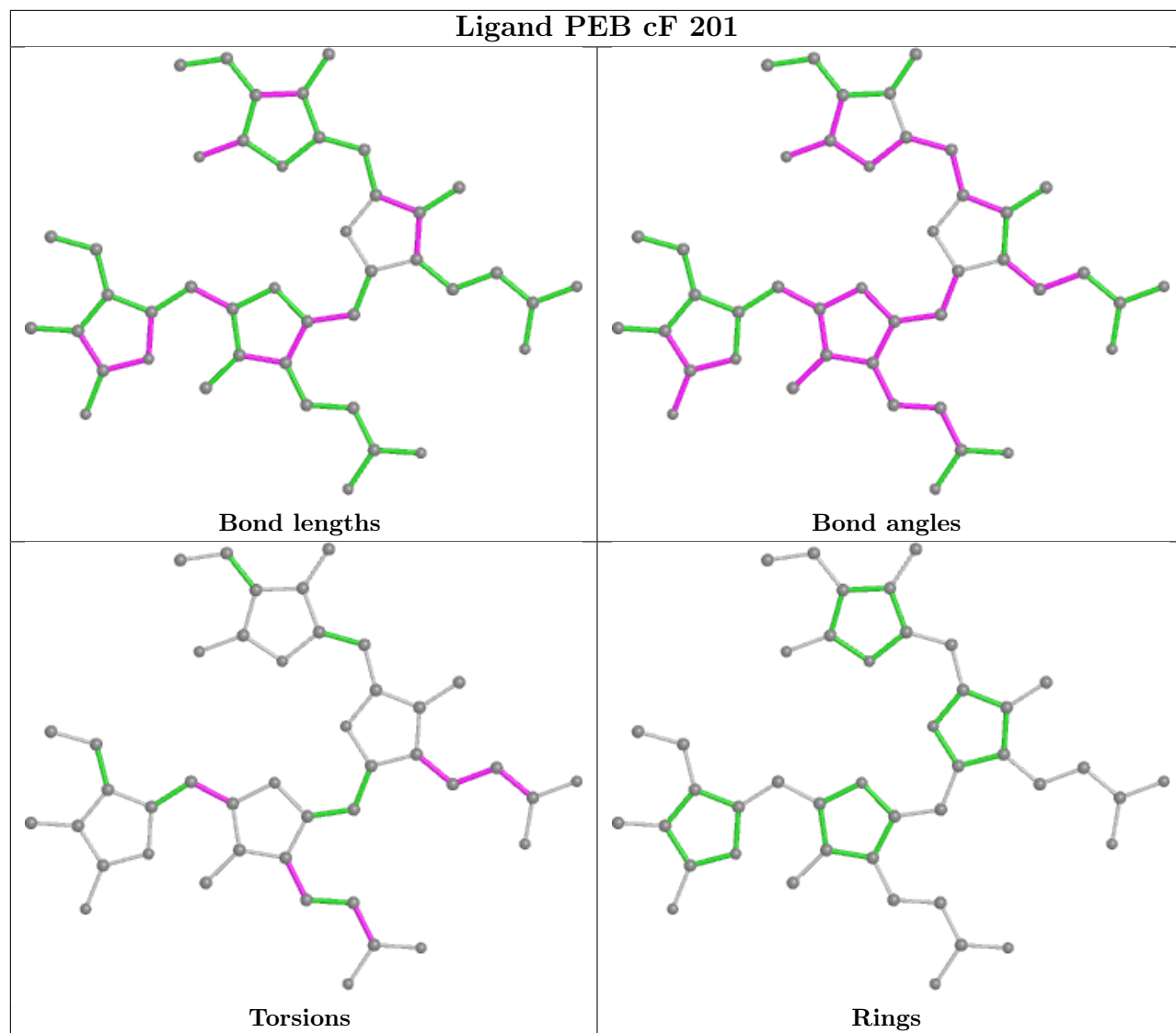


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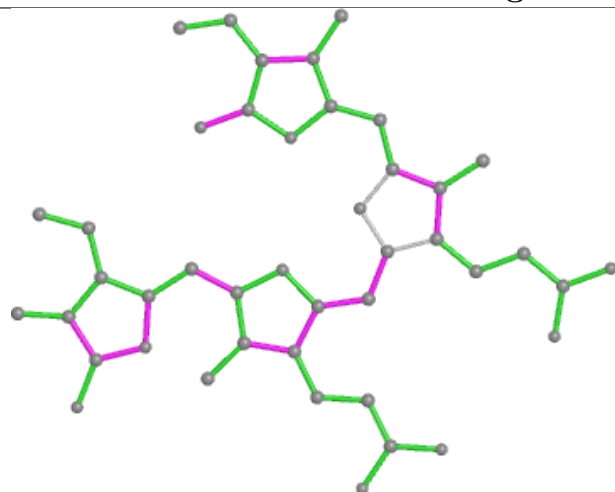


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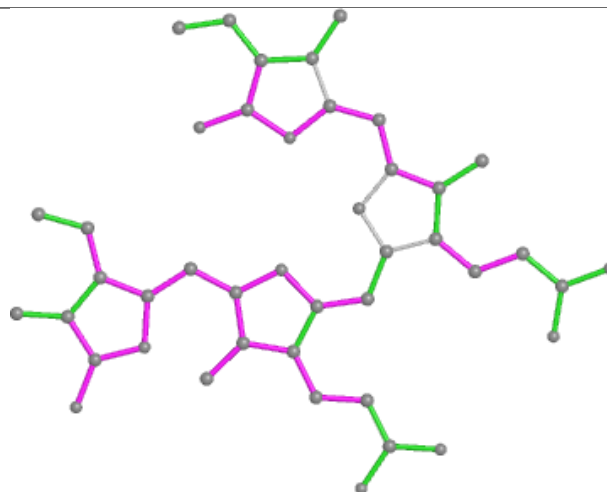




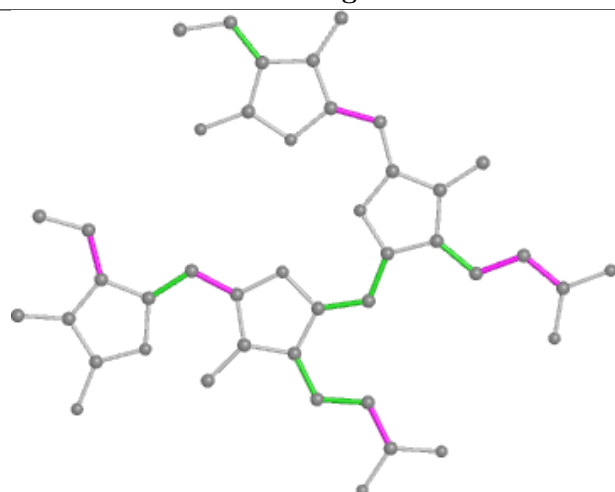
Ligand PEB SR 202



Bond lengths



Bond angles

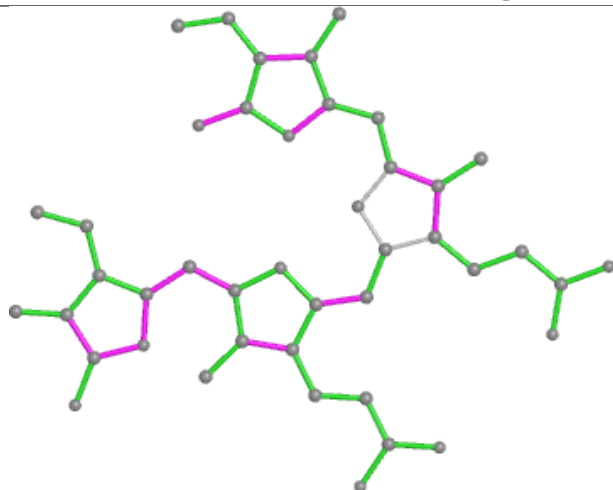


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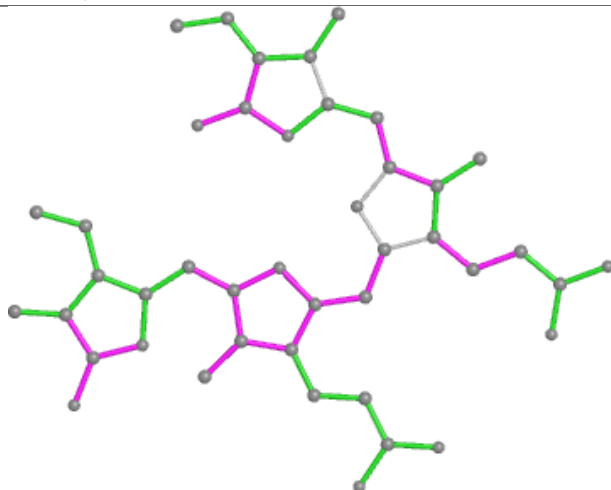


Rings

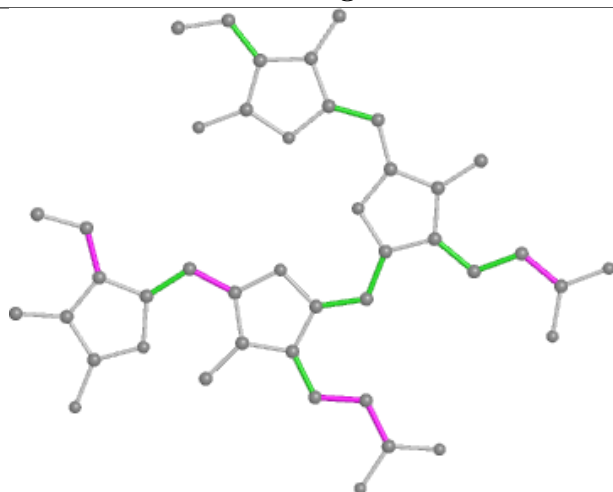
Ligand PEB MQ 403



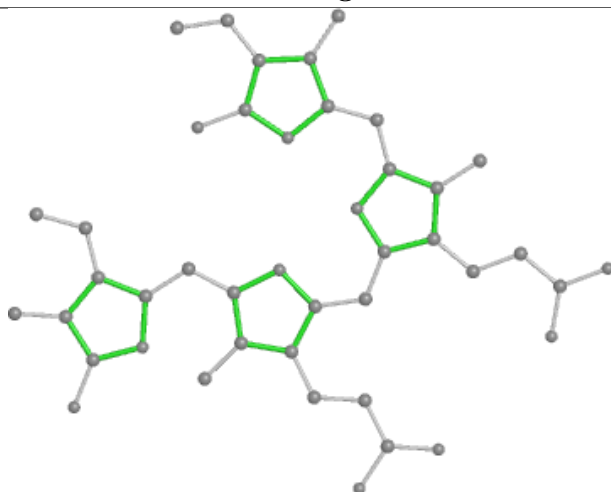
Bond lengths



Bond angles

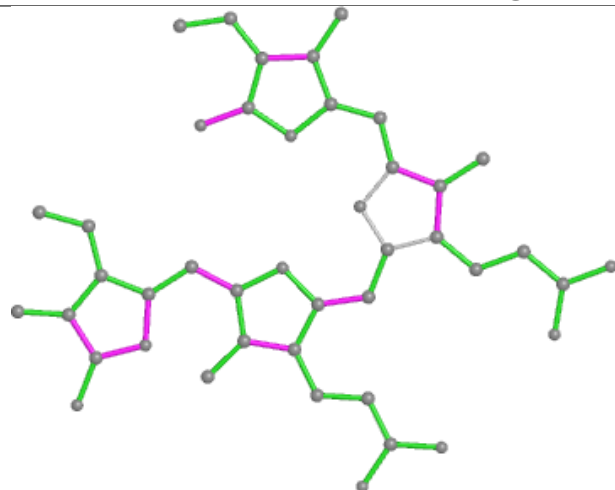


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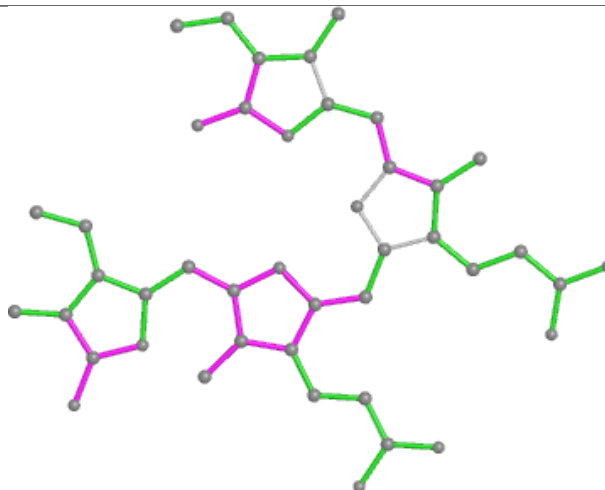


Rings

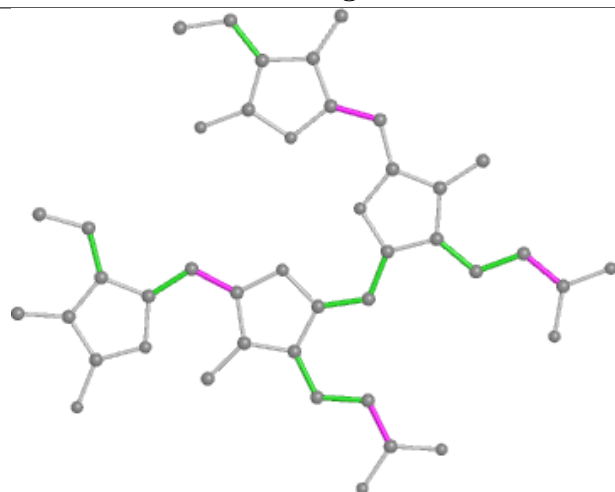
Ligand PEB U7 202



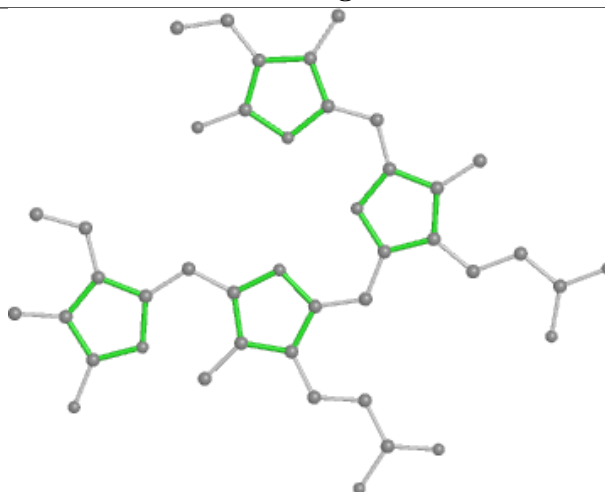
Bond lengths



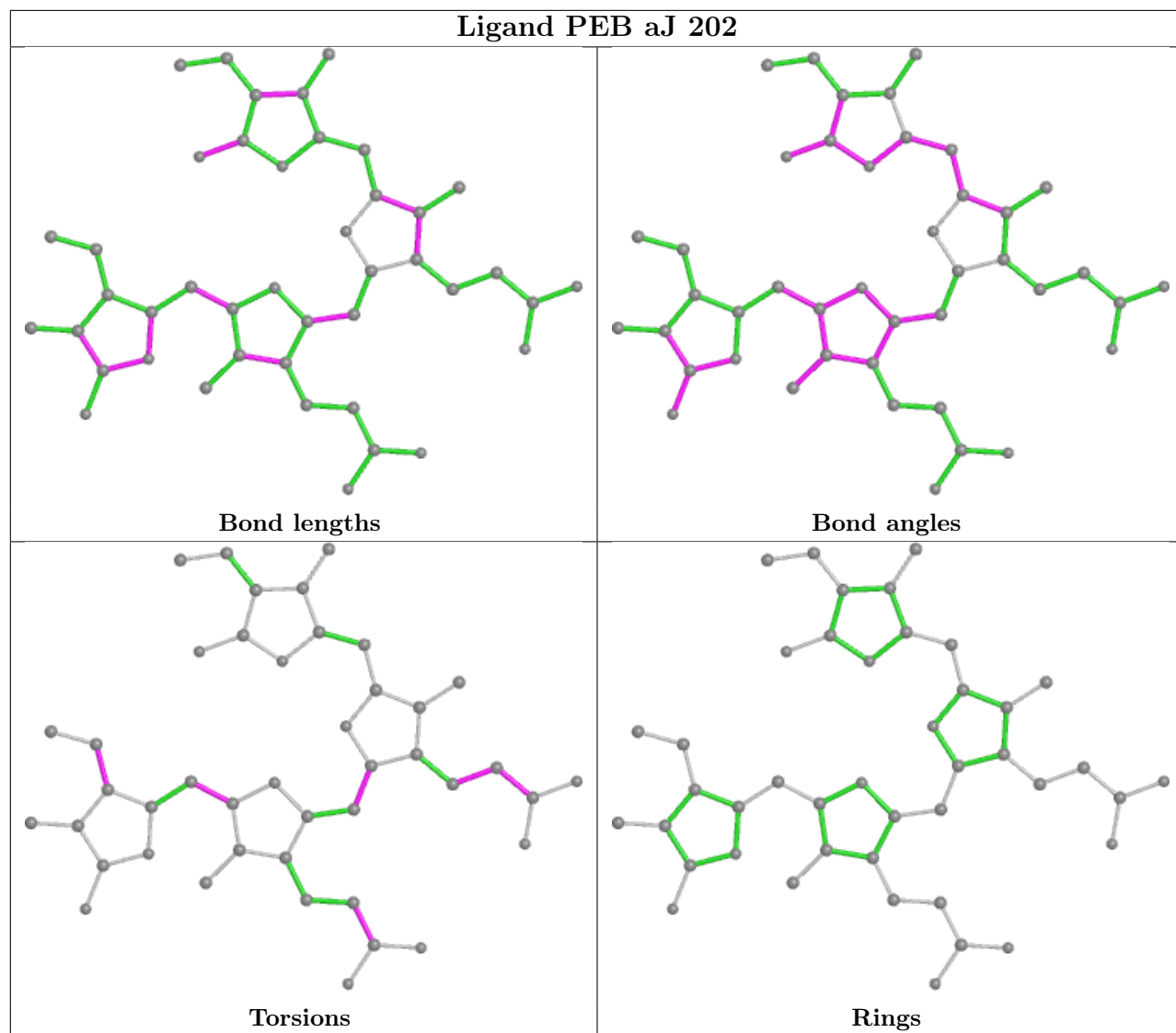
Bond angles

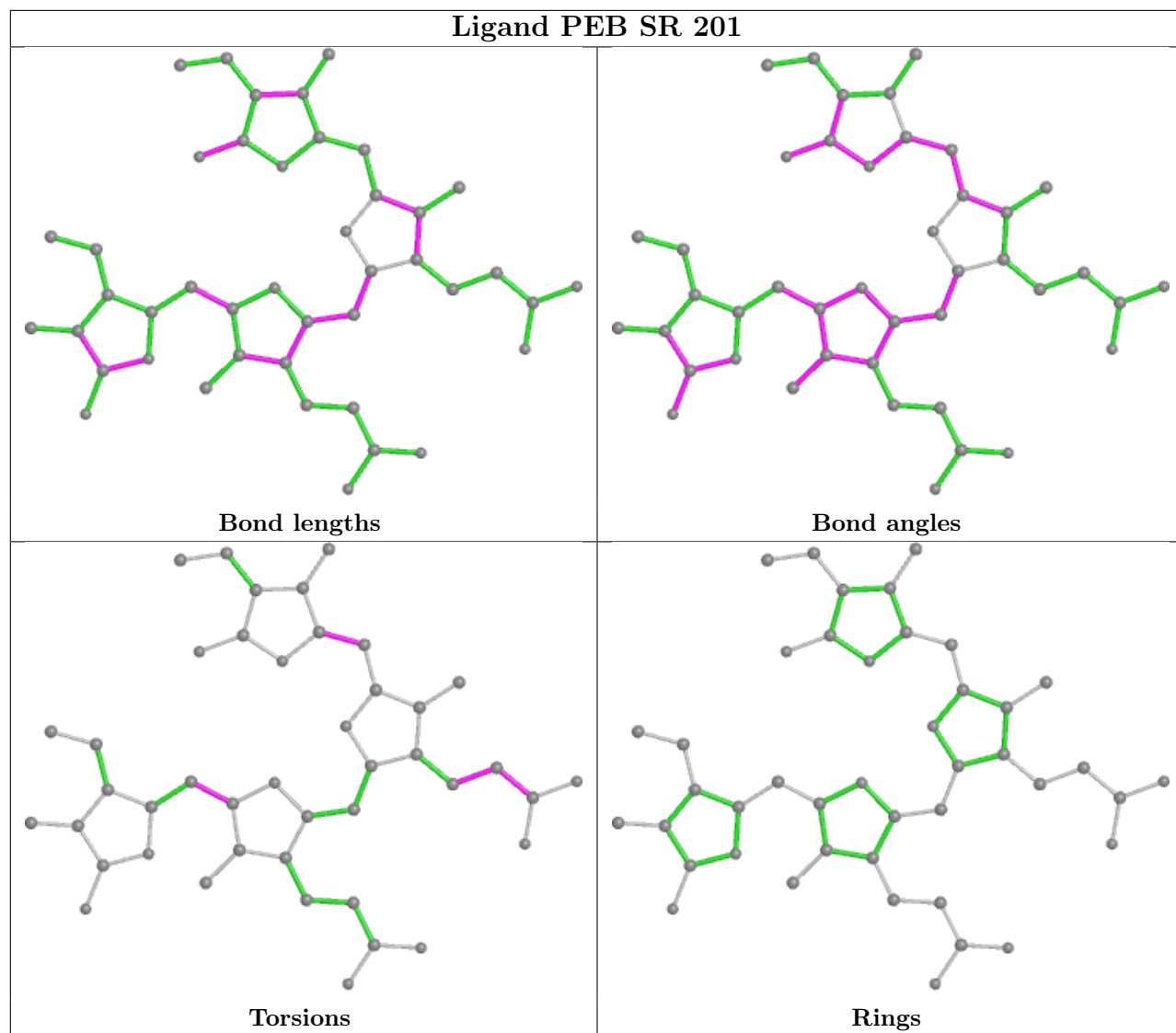


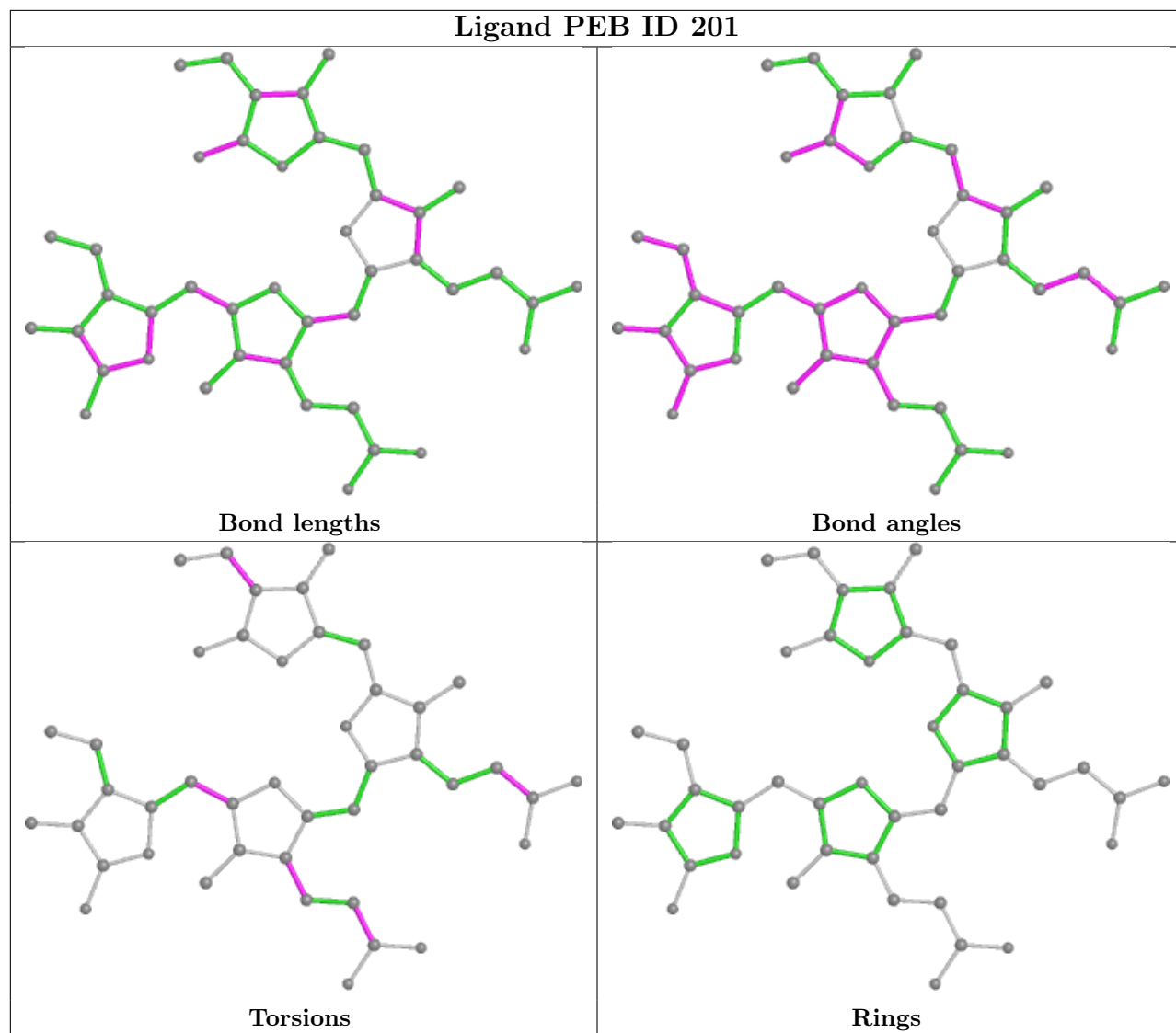
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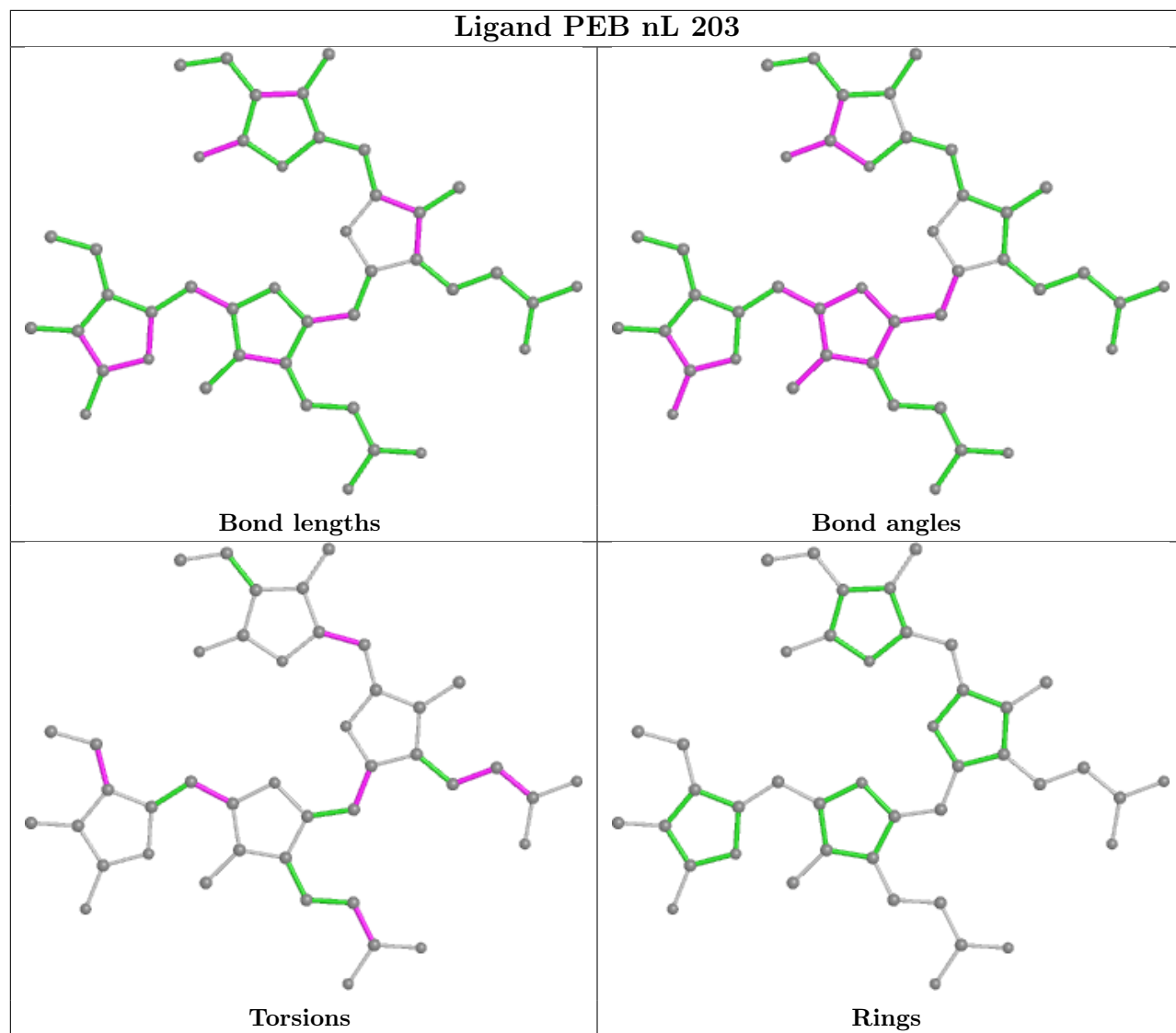


Rings

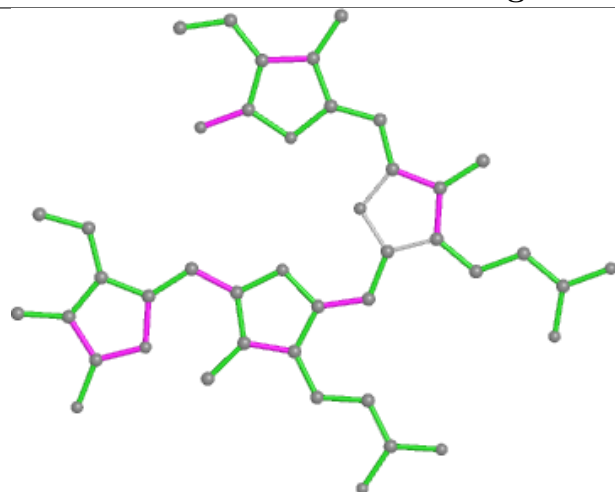




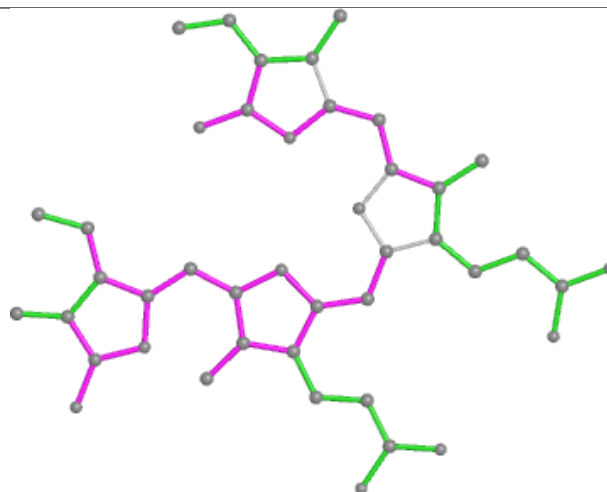




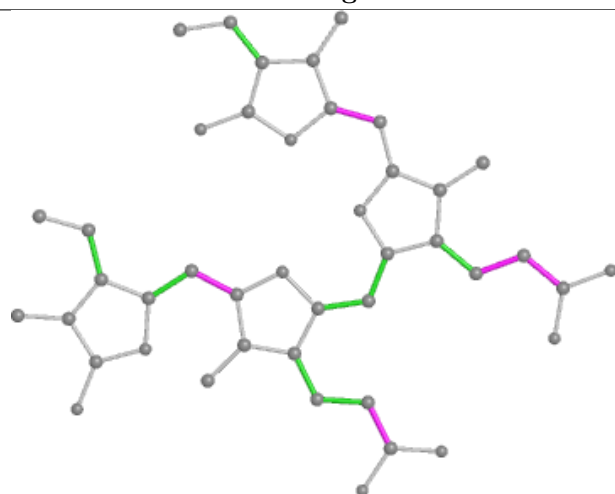
Ligand PEB A1 302



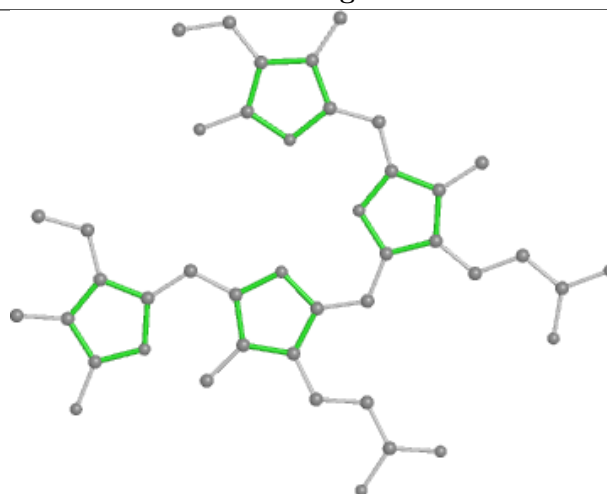
Bond lengths



Bond angles

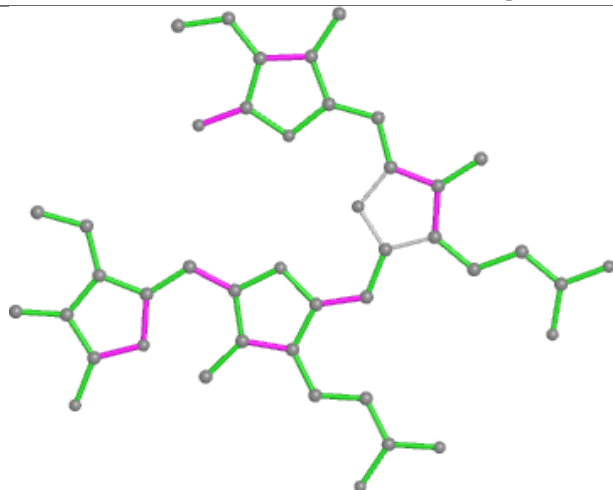


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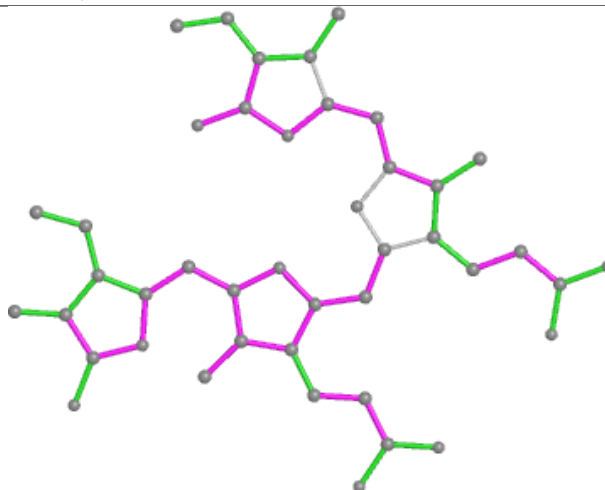


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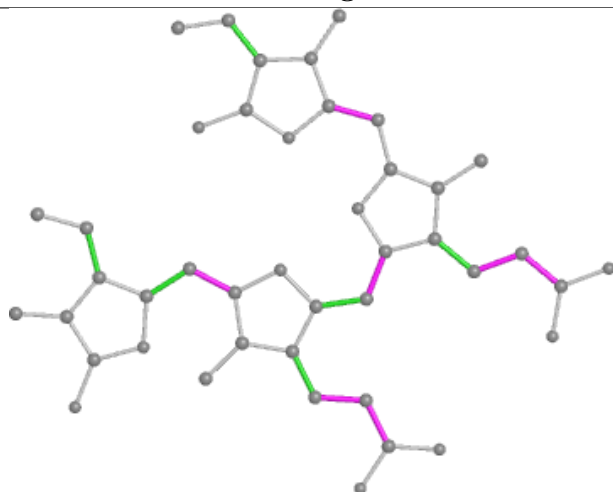
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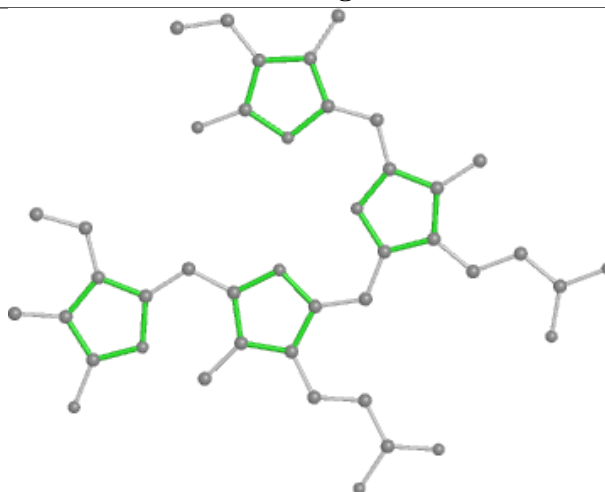
Bond lengths



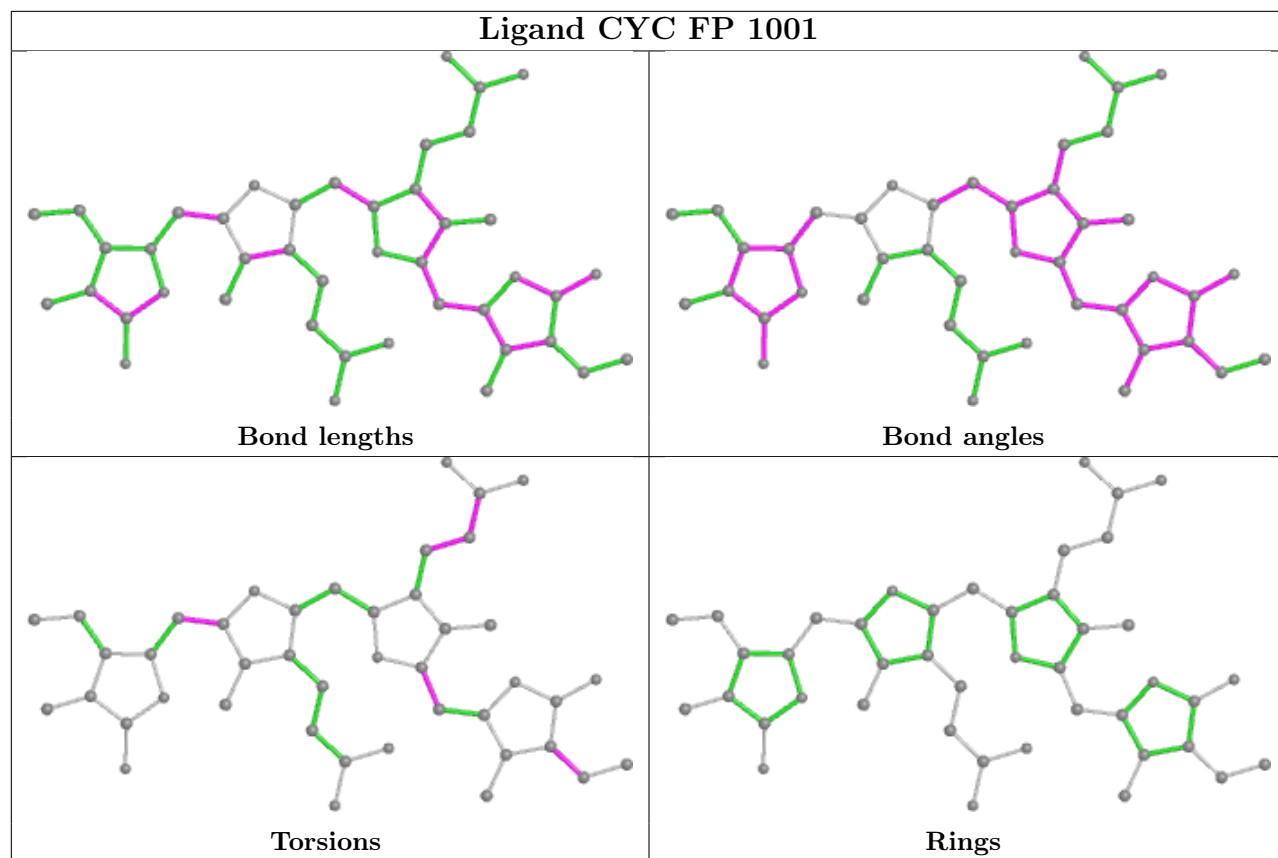
Bond angles

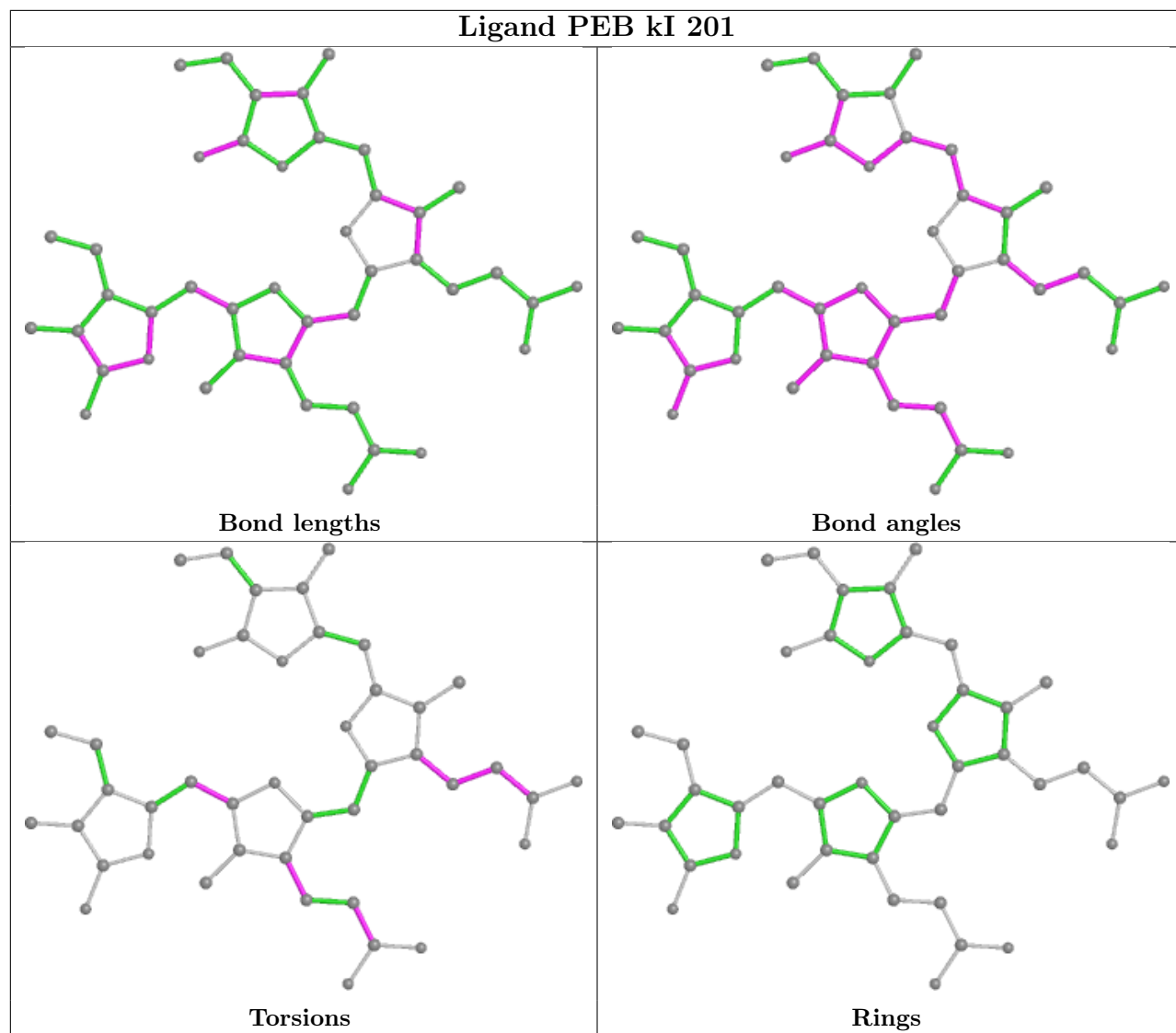


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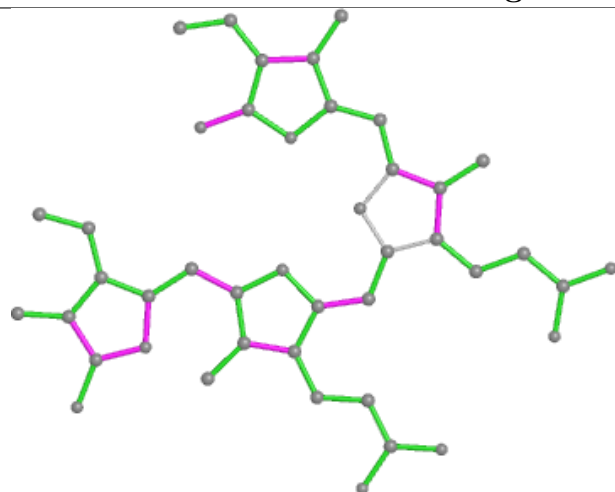


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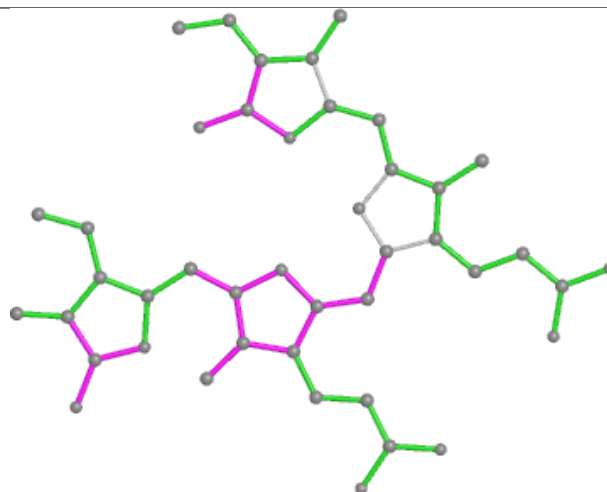




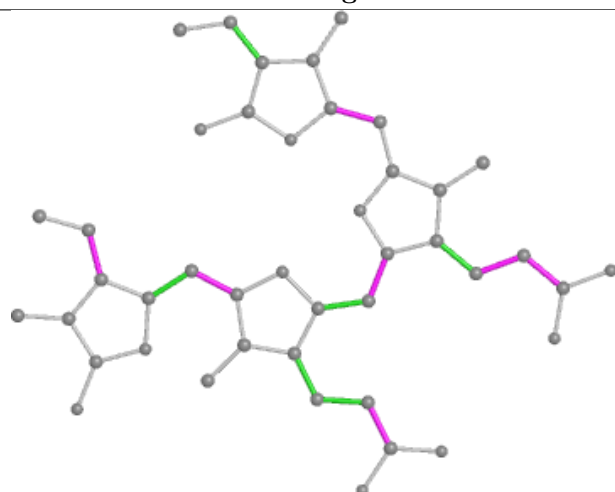
Ligand PEB HL 202



Bond lengths



Bond angles

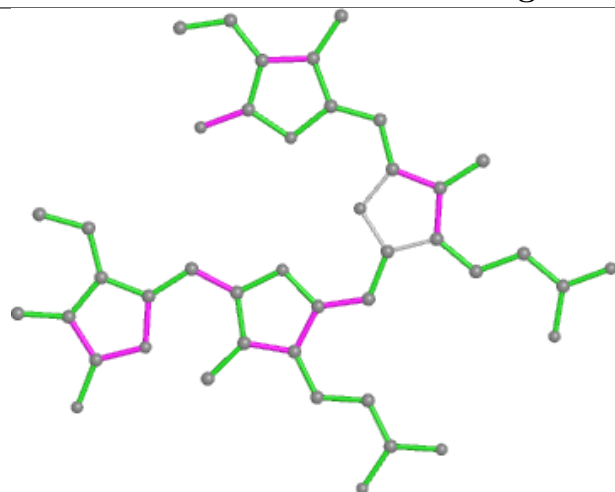


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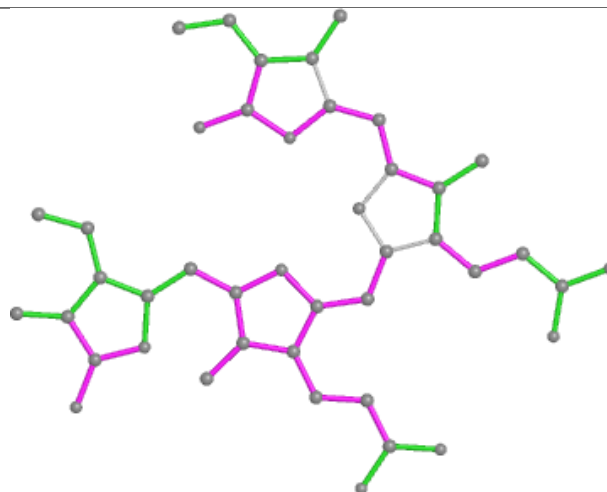


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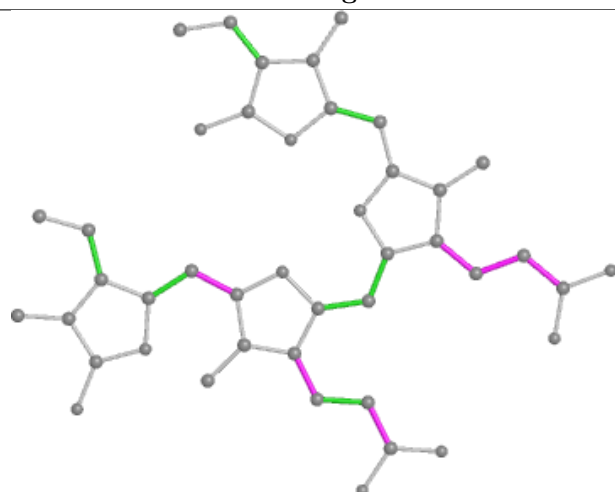
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Bond lengths



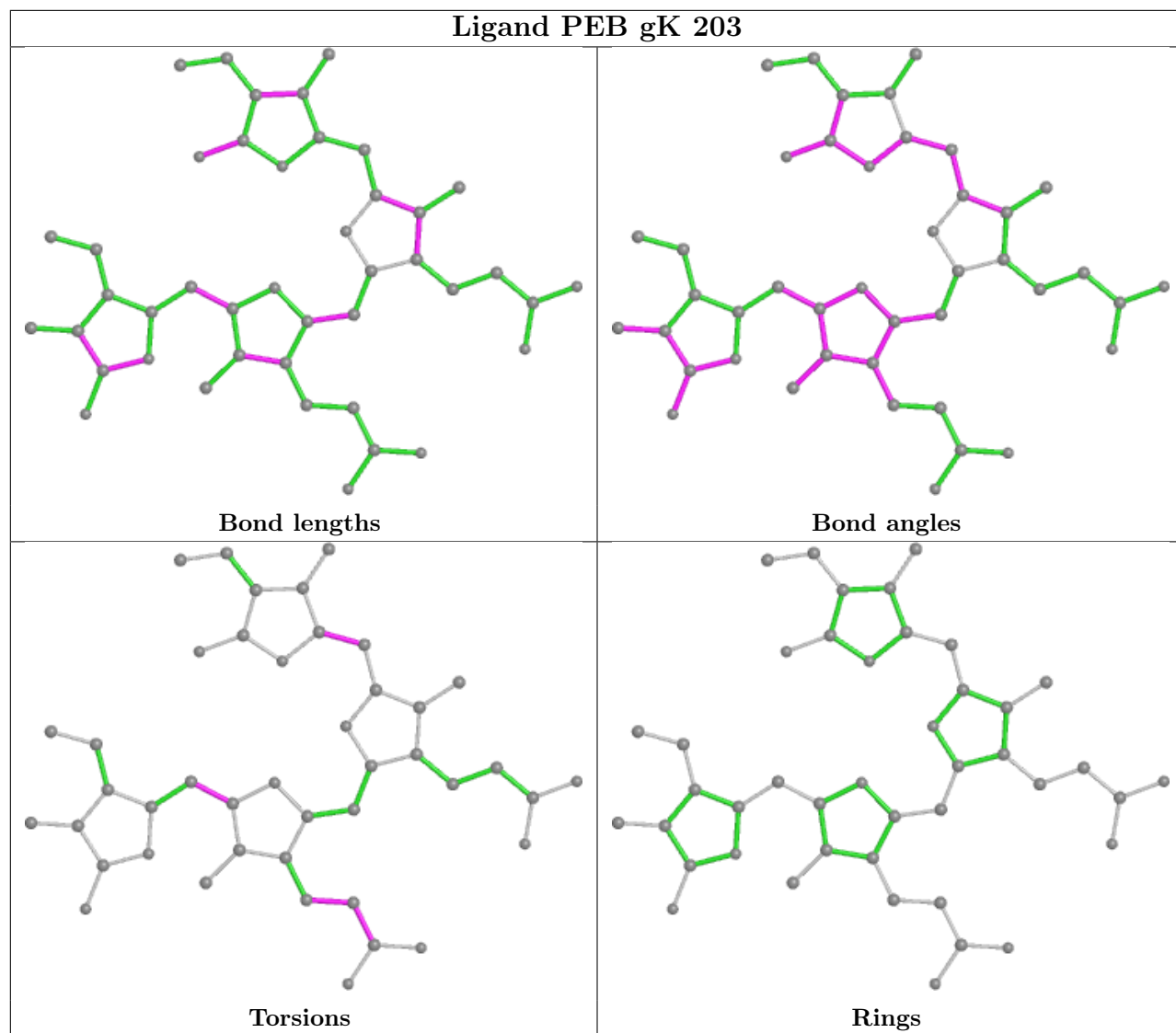
Bond angles



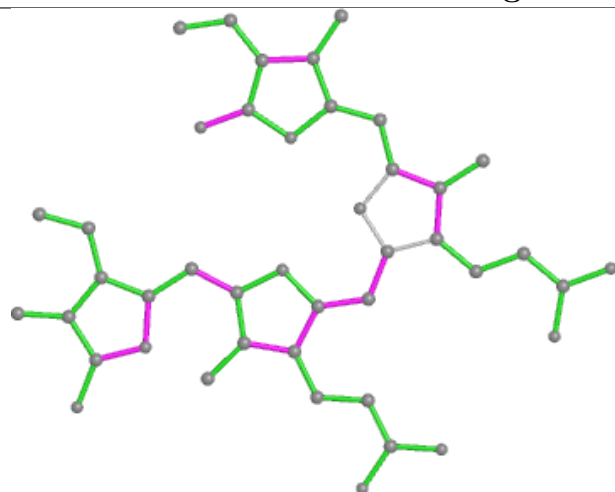
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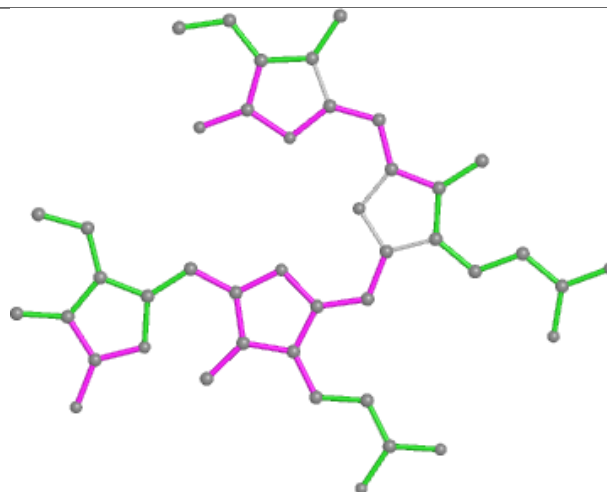
Rings



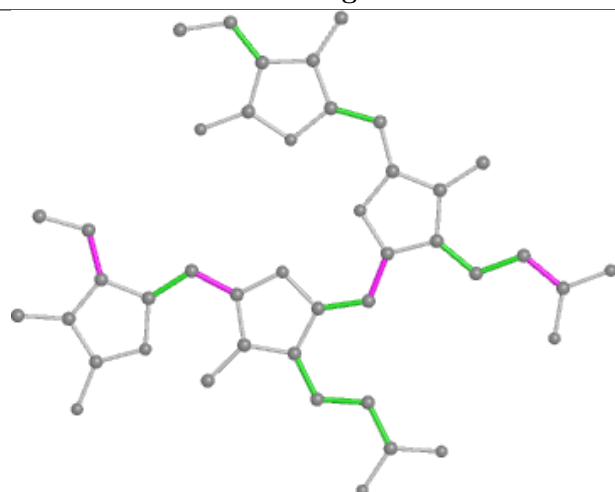
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Bond lengths



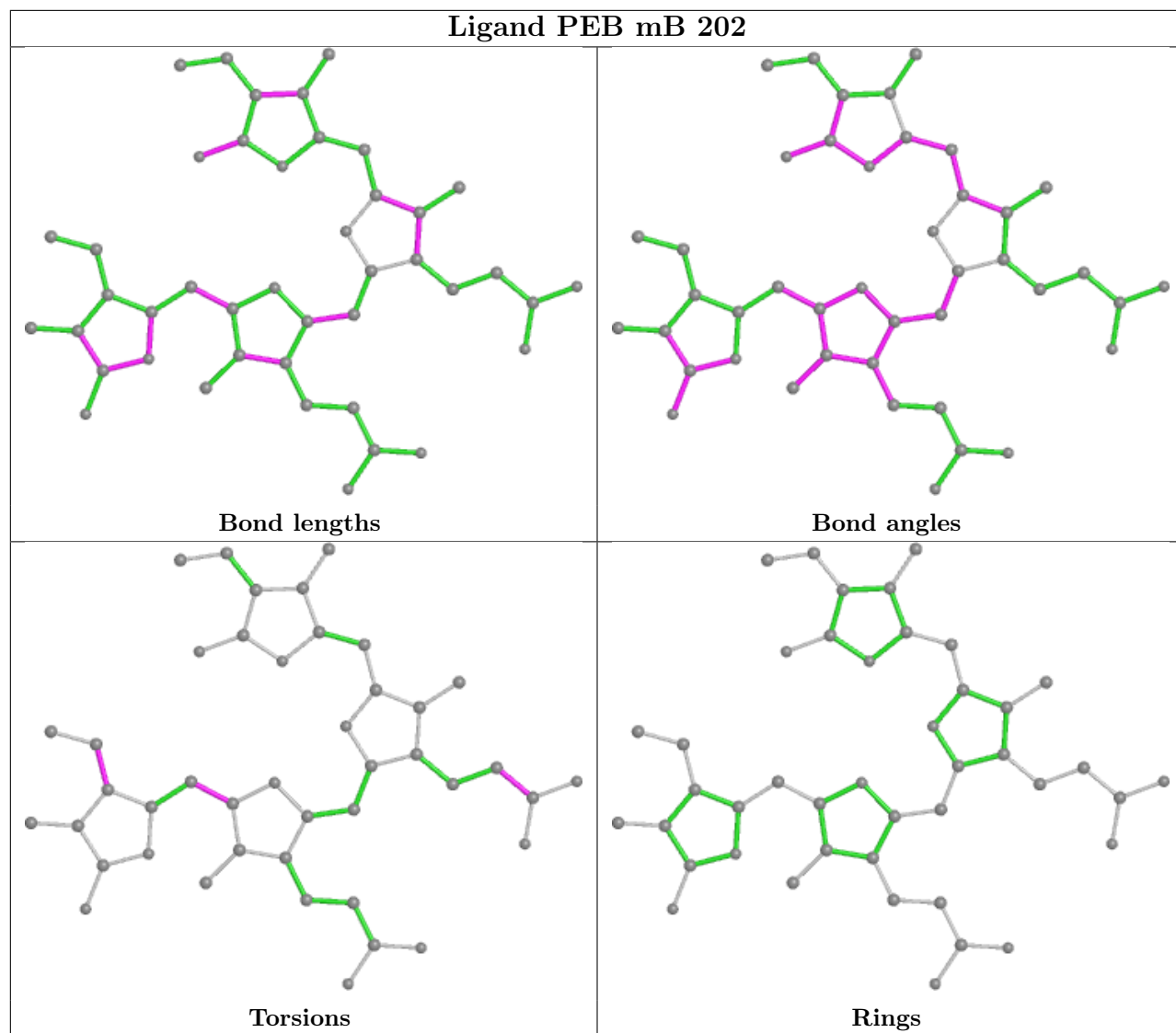
Bond angles

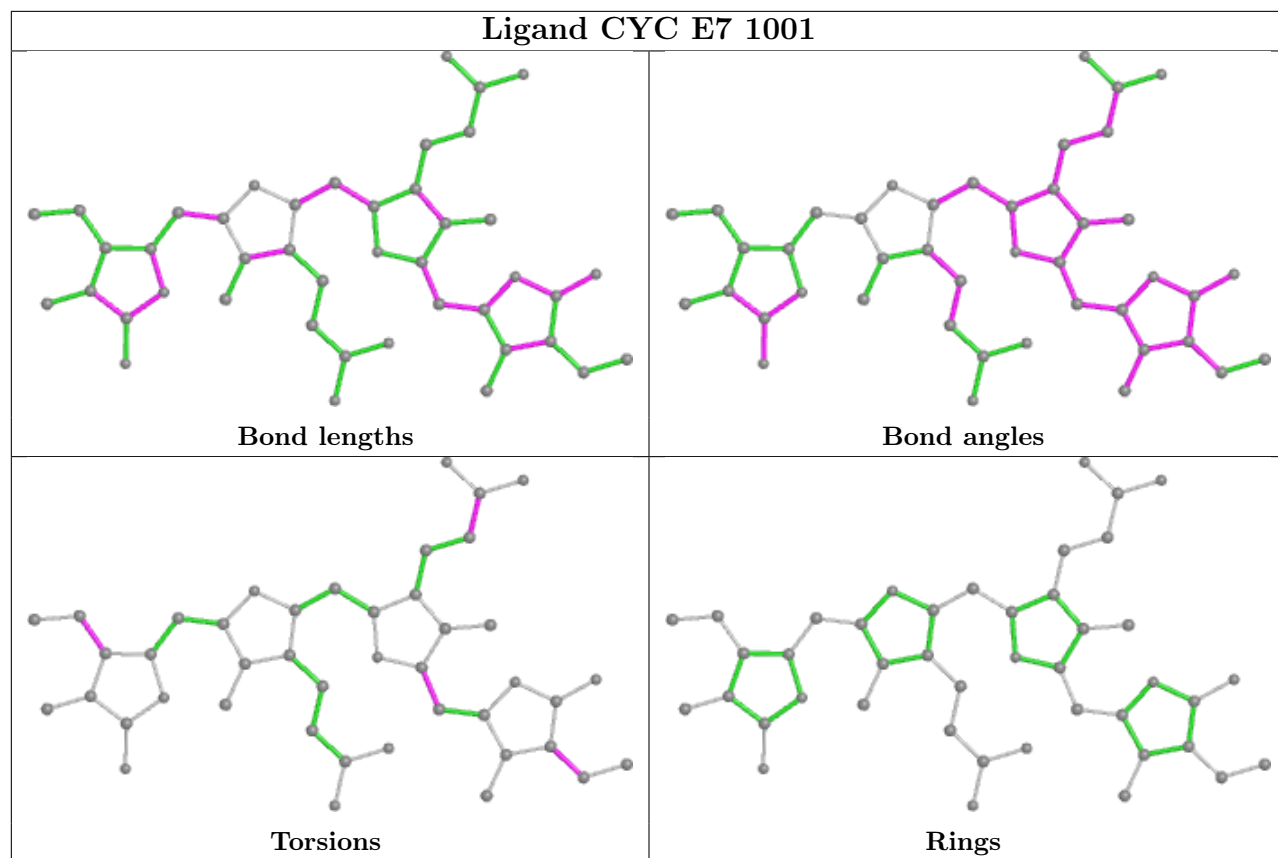


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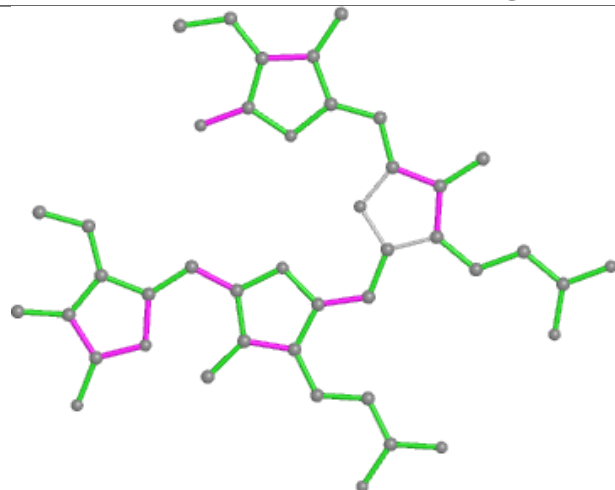


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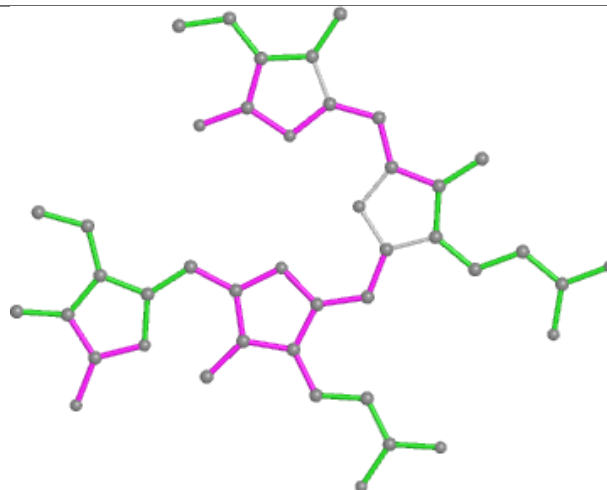




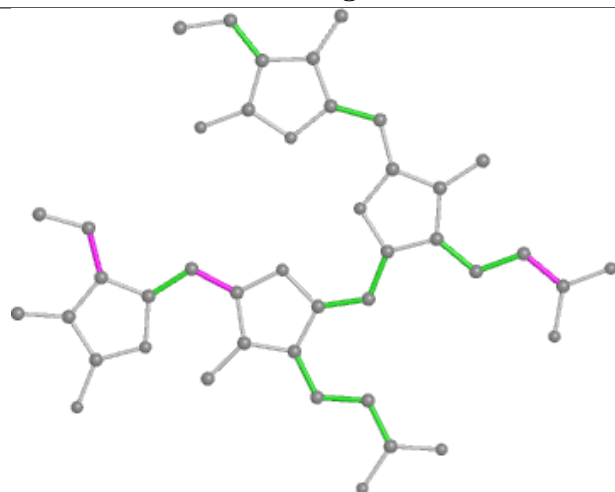
Ligand PEB kM 202



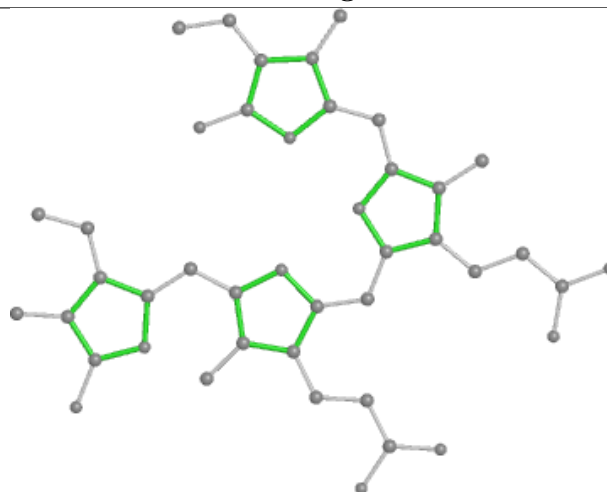
Bond lengths



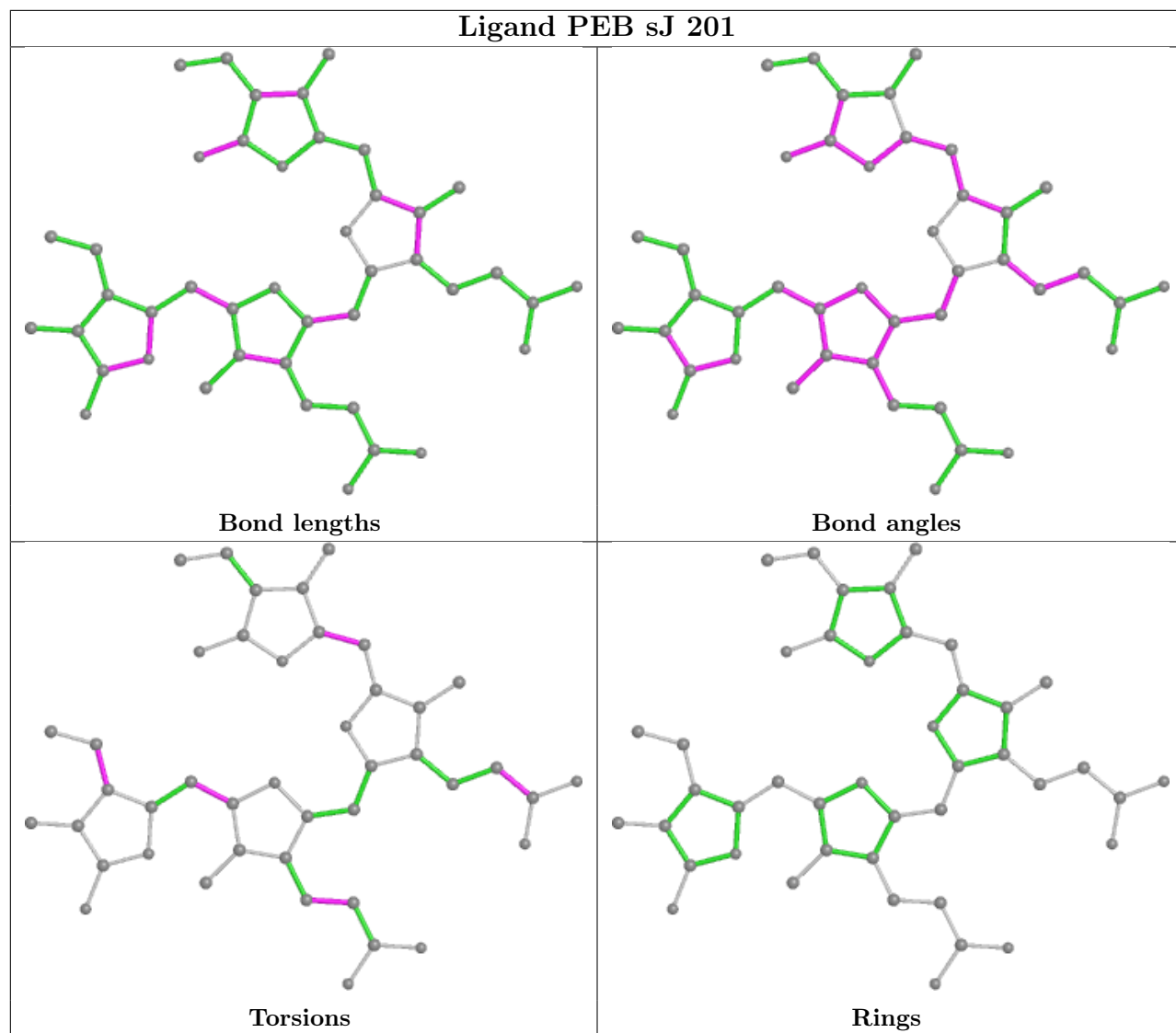
Bond angles



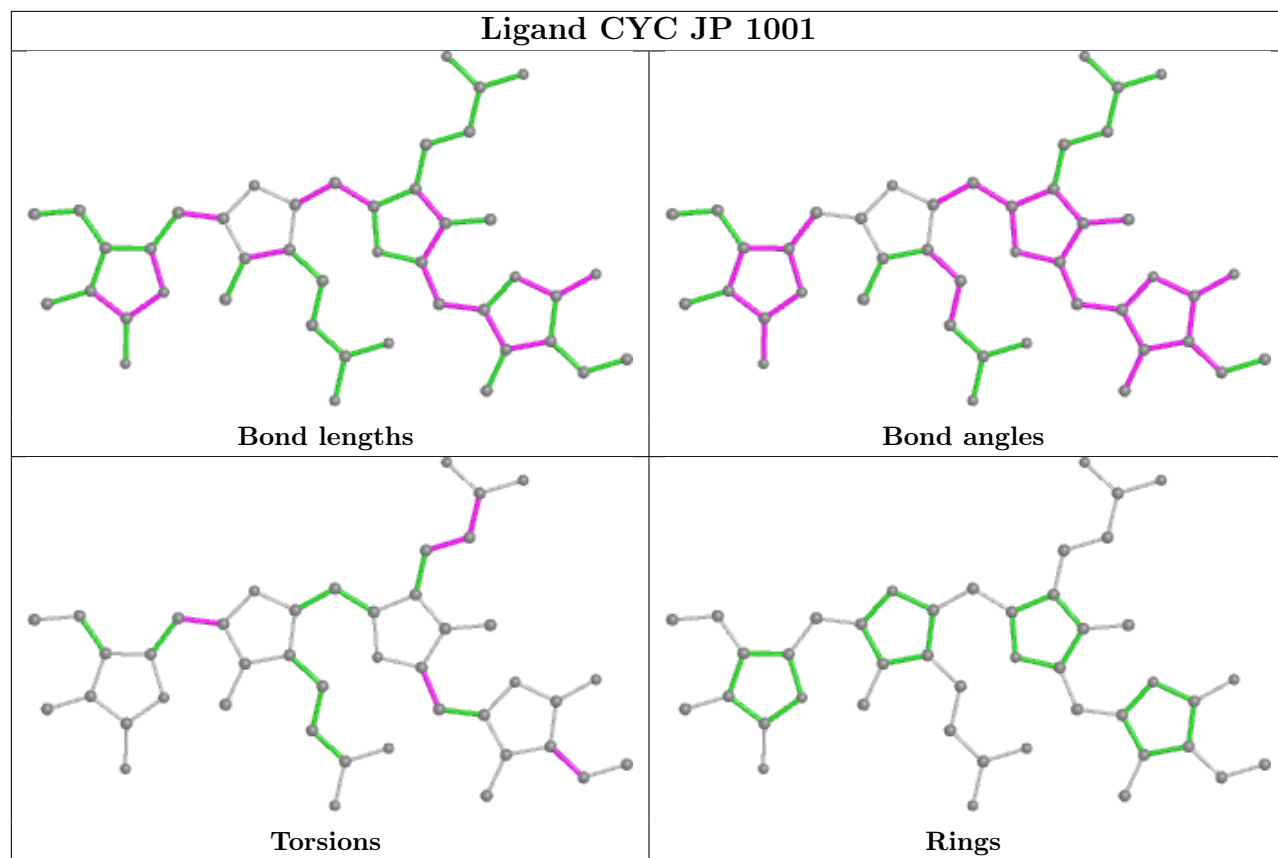
Torsions

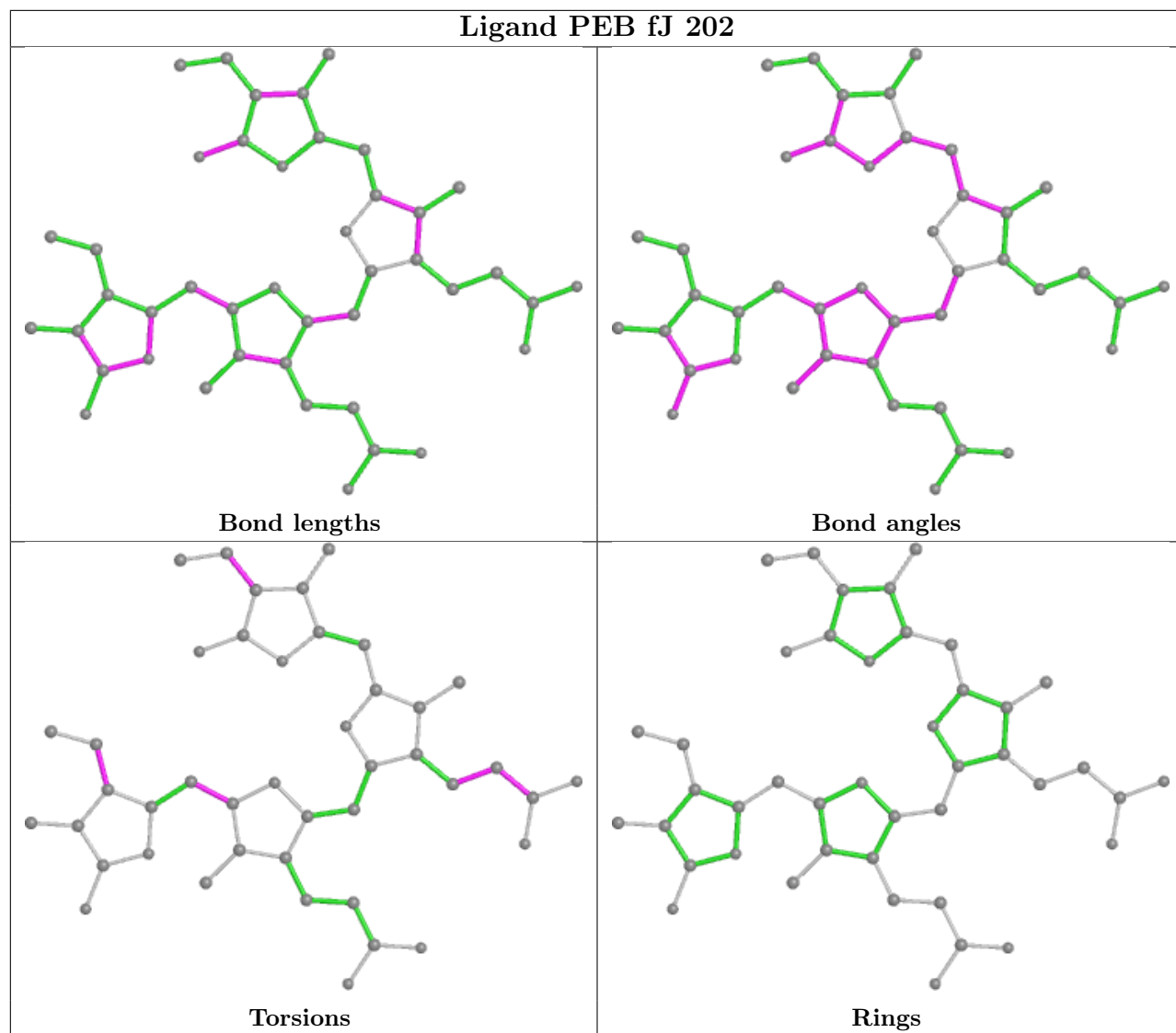


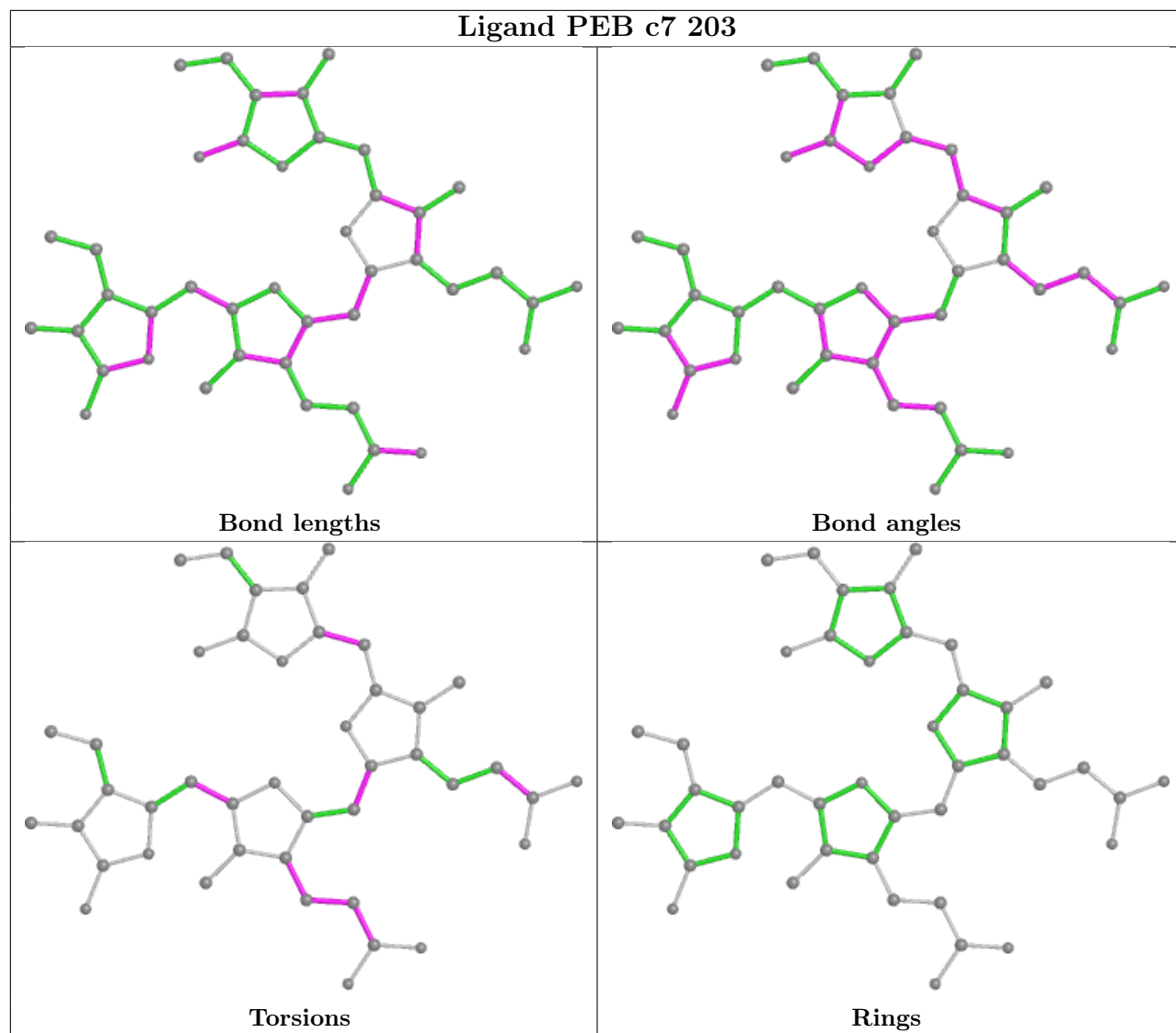
Rings



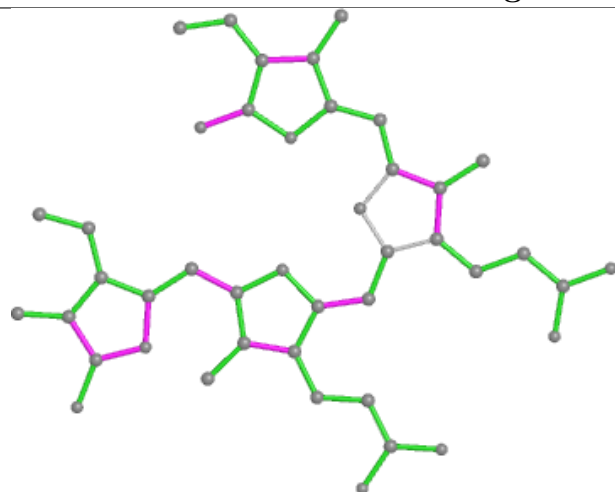
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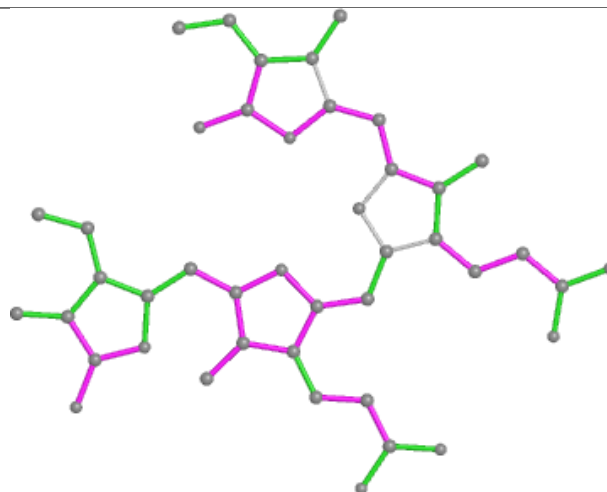




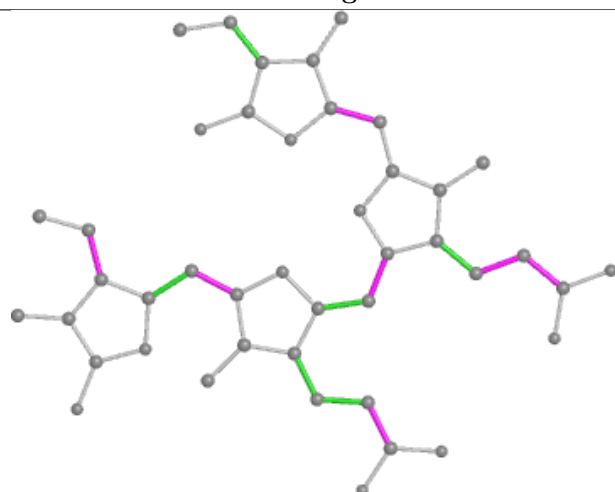
Ligand PEB TR 203



Bond lengths



Bond angles

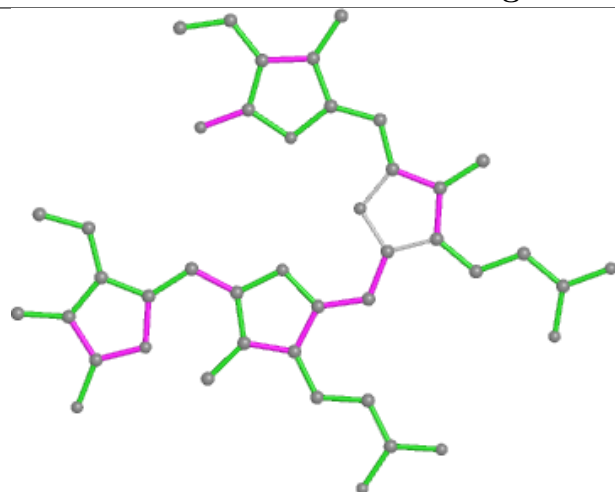


Torsions

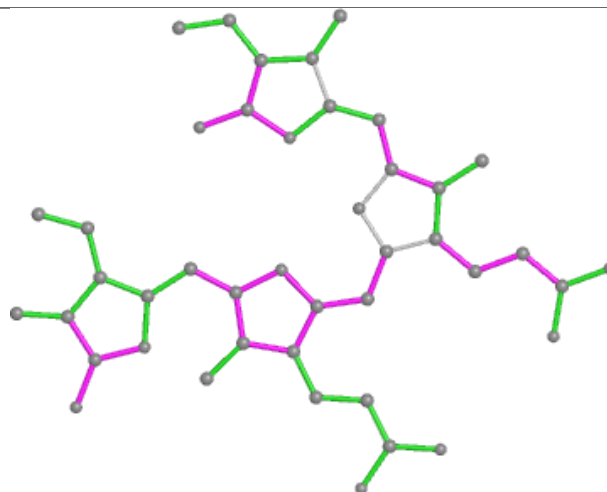


Rings

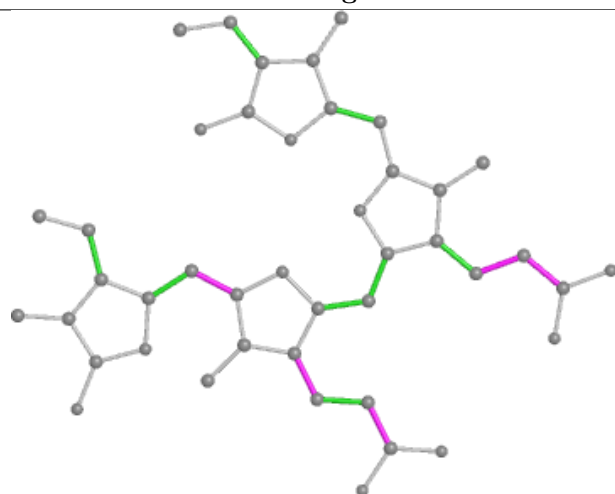
Ligand PEB NR 201



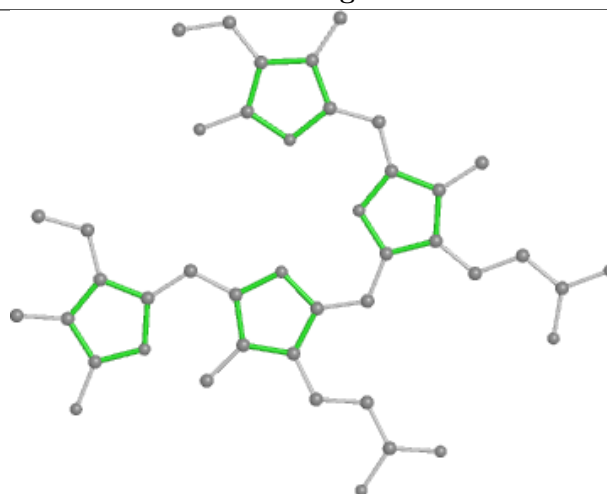
Bond lengths



Bond angles

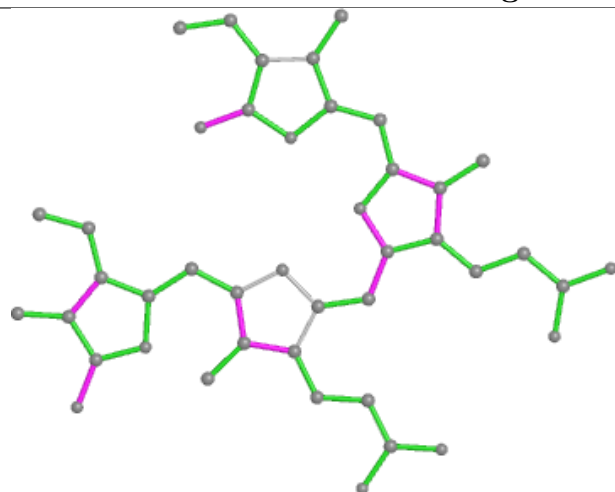


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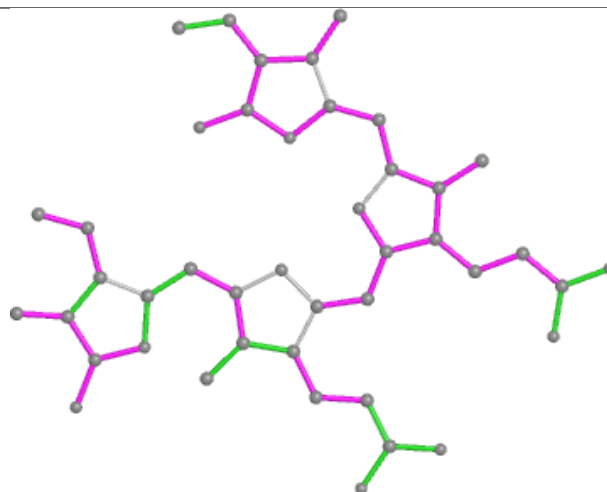


Rings

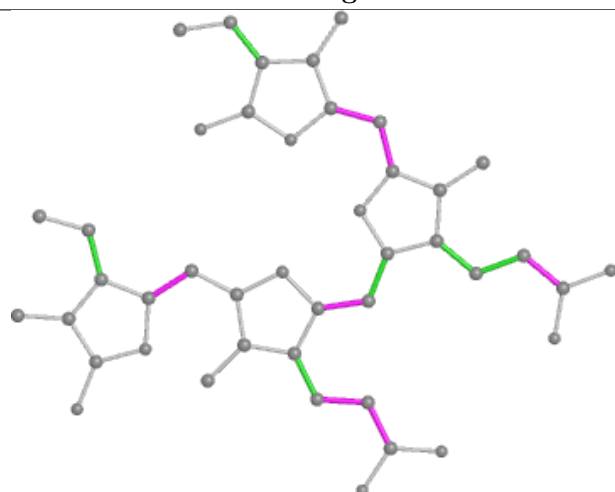
Ligand PUB AB 304



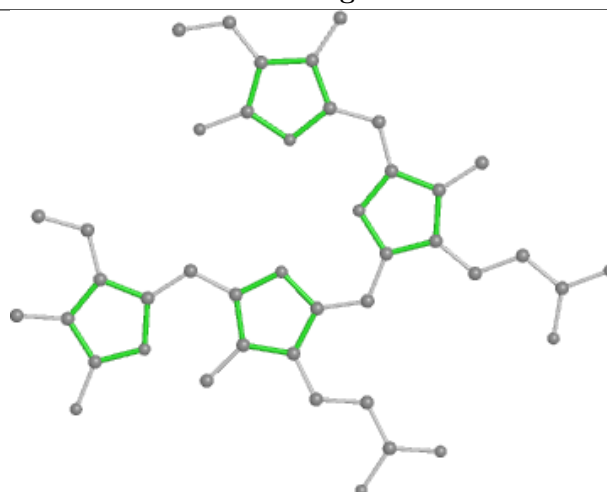
Bond lengths



Bond angles

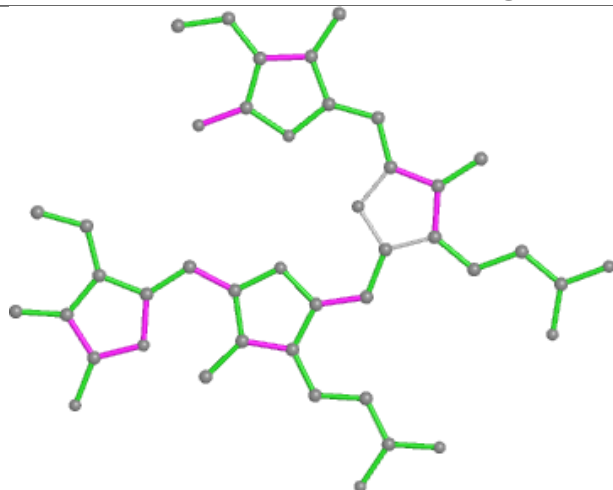


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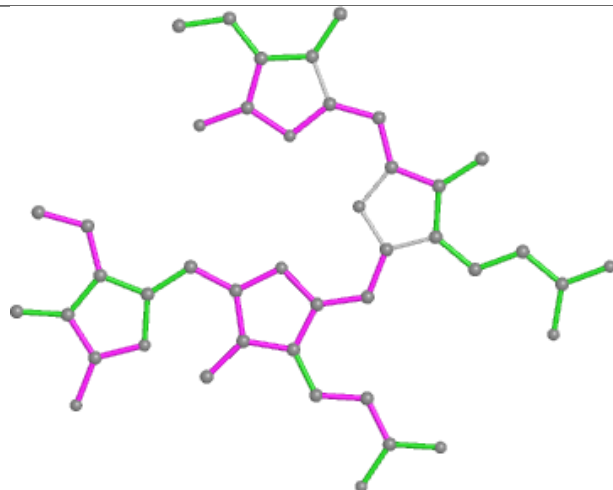


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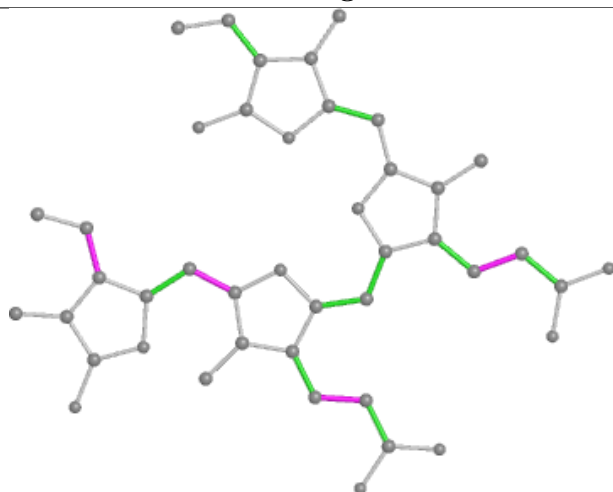
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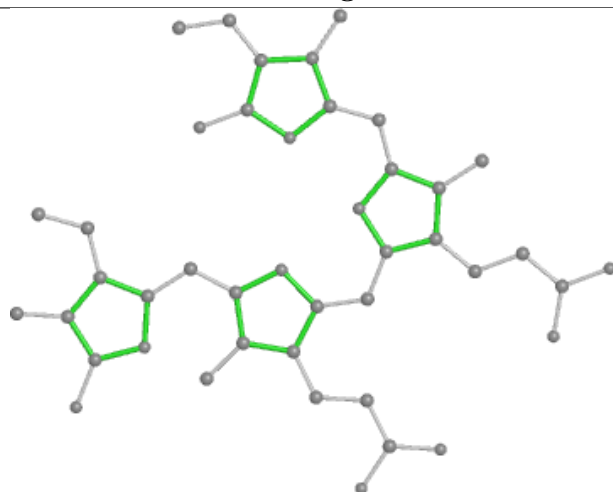
Bond lengths



Bond angles

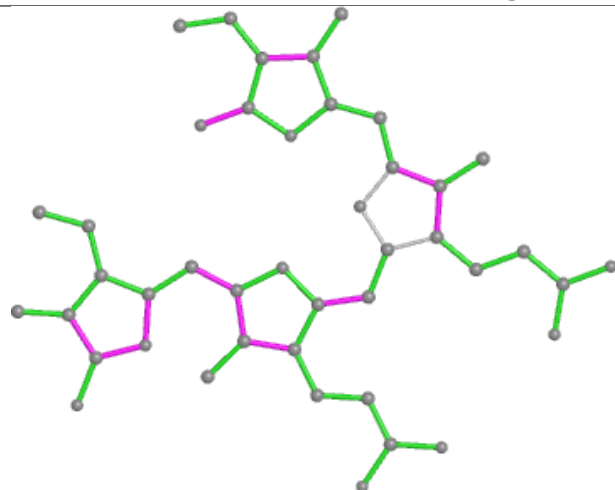


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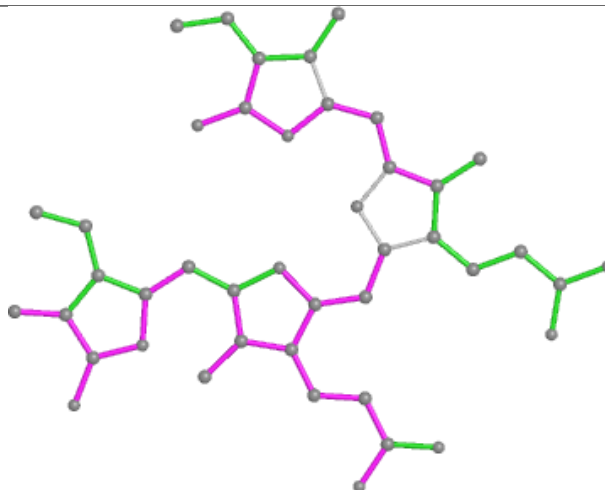


Rings

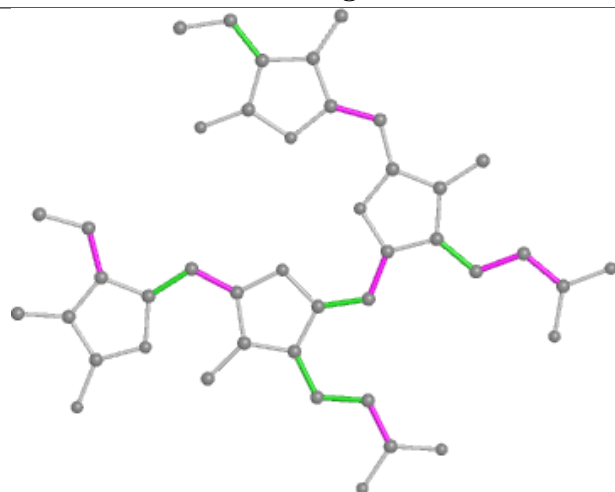
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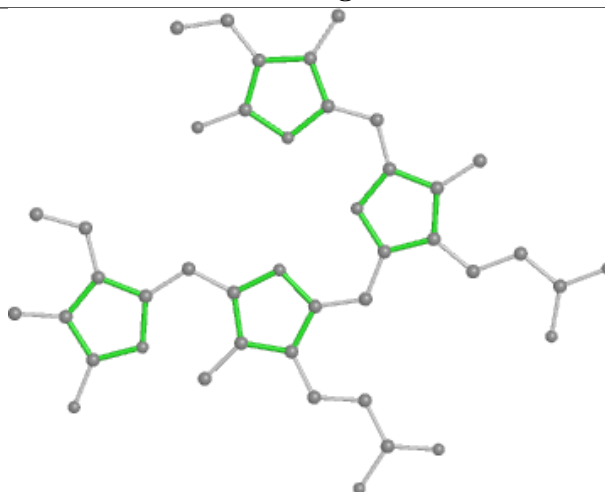
Bond lengths



Bond angles

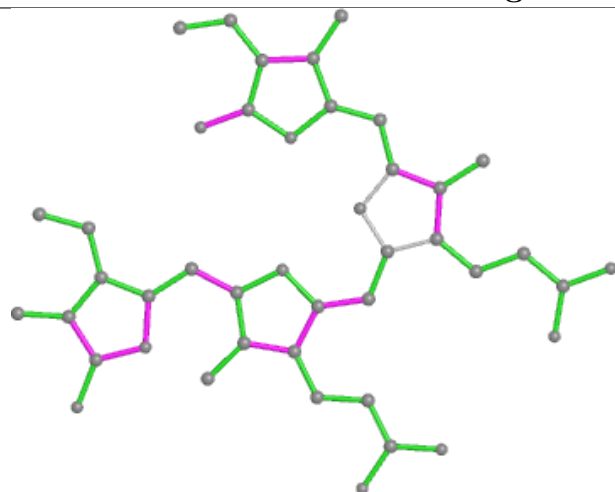


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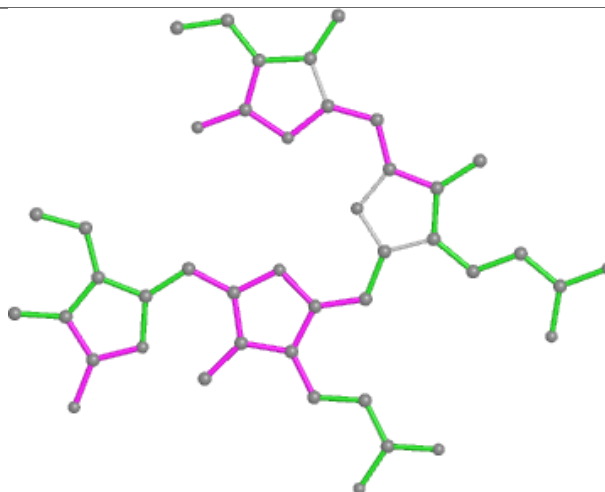


Rings

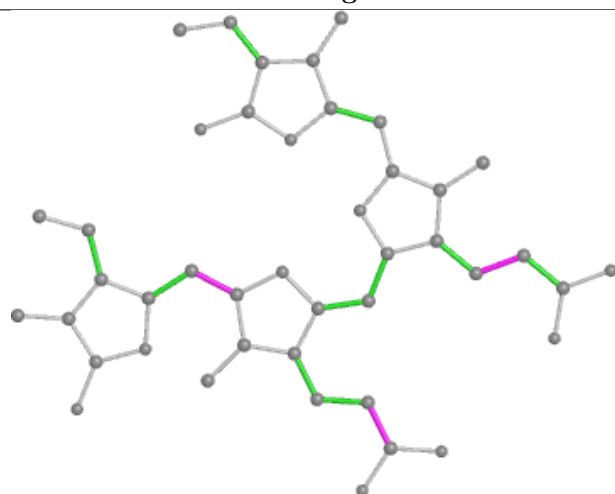
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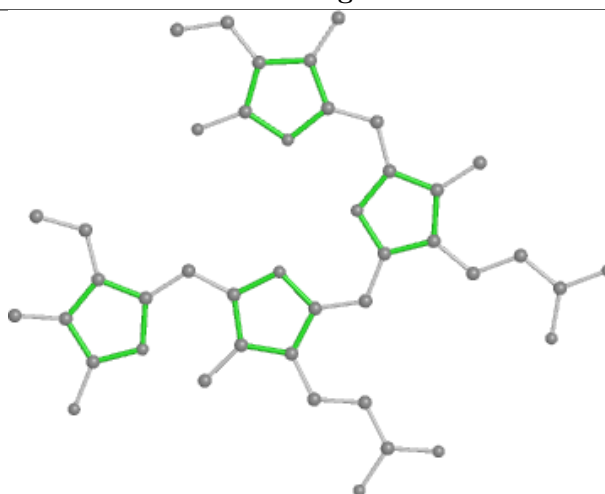
Bond lengths



Bond angles

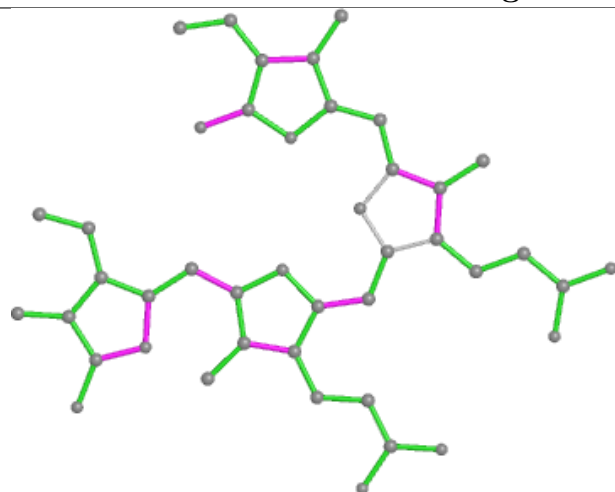


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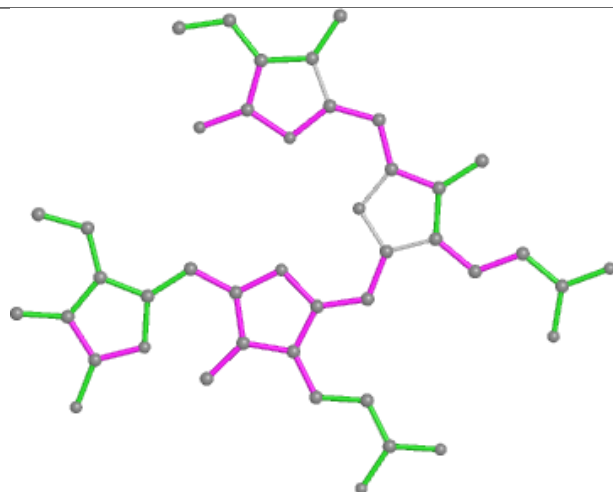


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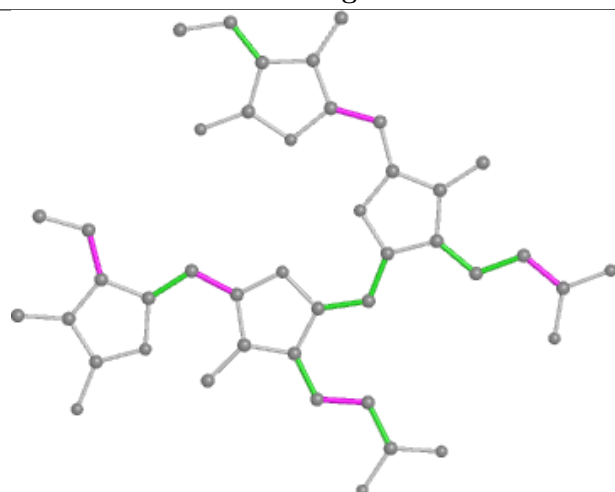
Ligand PEB WJ 202



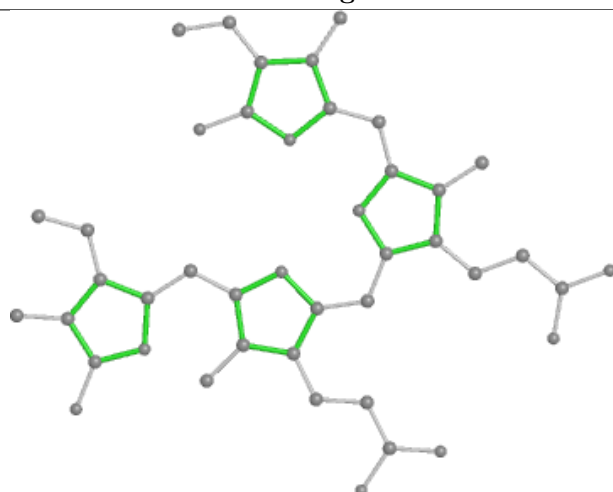
Bond lengths



Bond angles

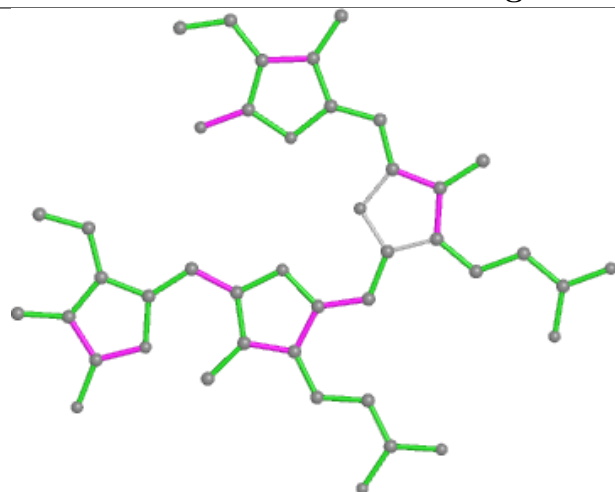


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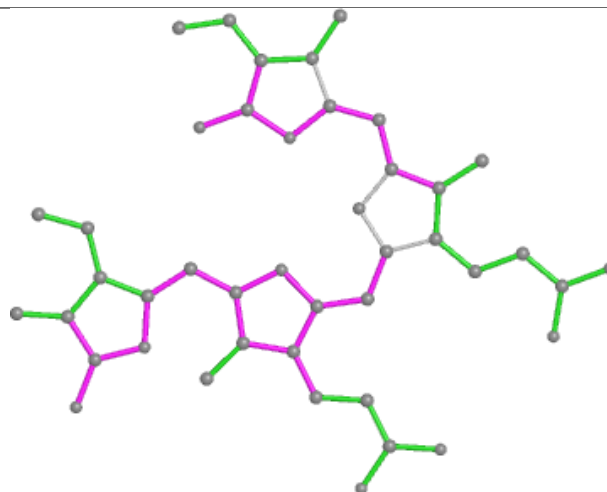


Rings

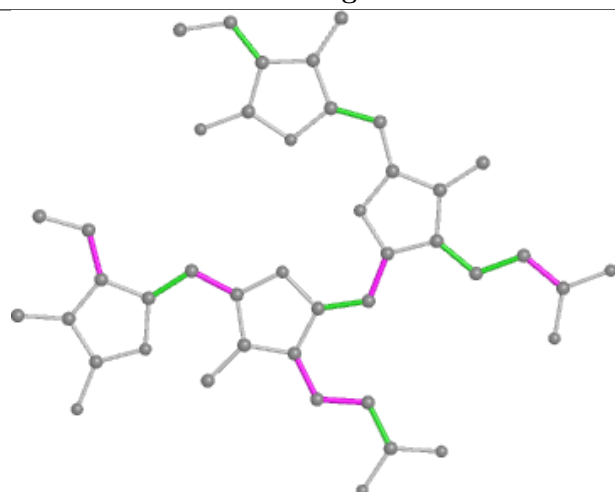
Ligand PEB LA 202



Bond lengths



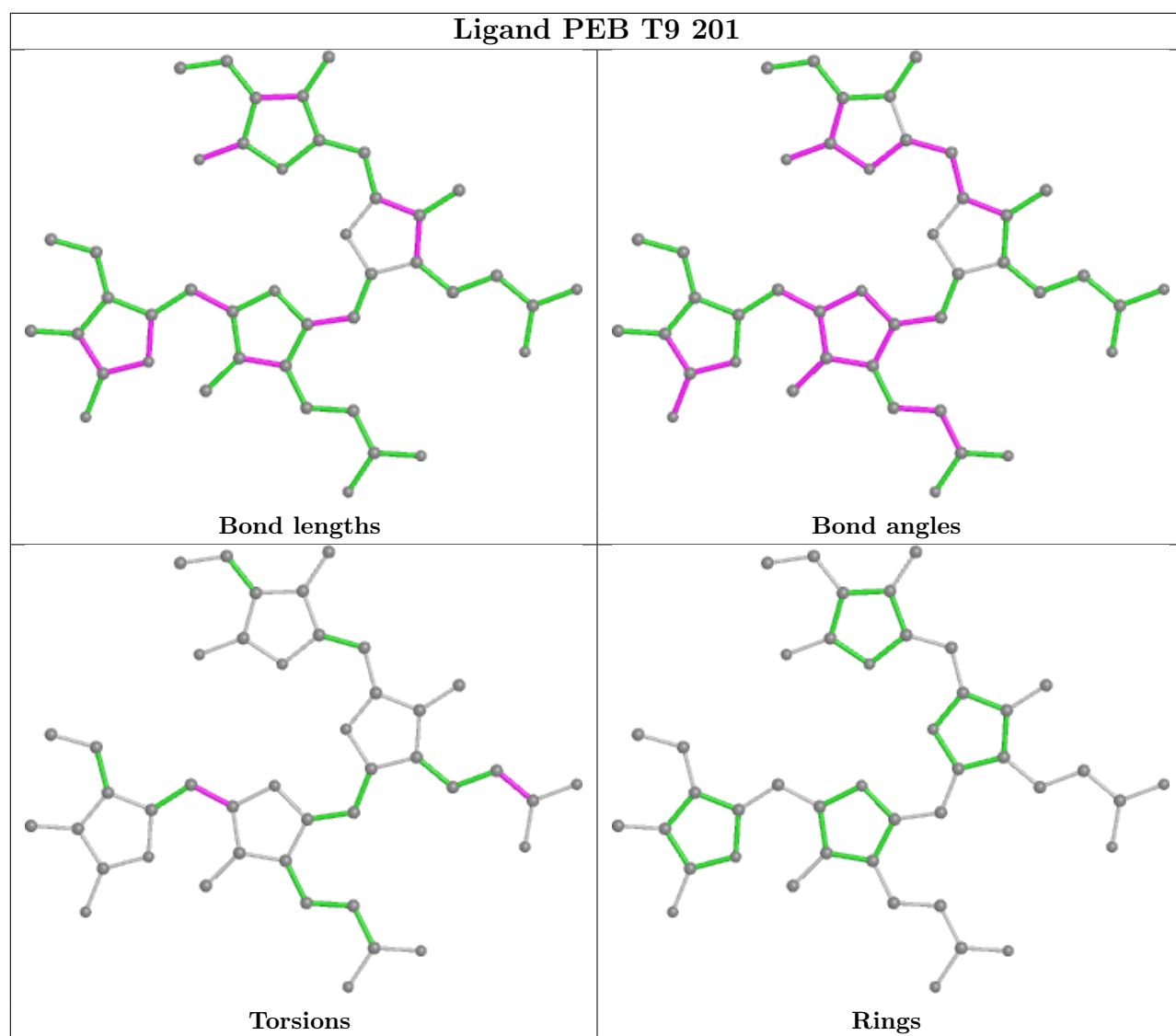
Bond angles



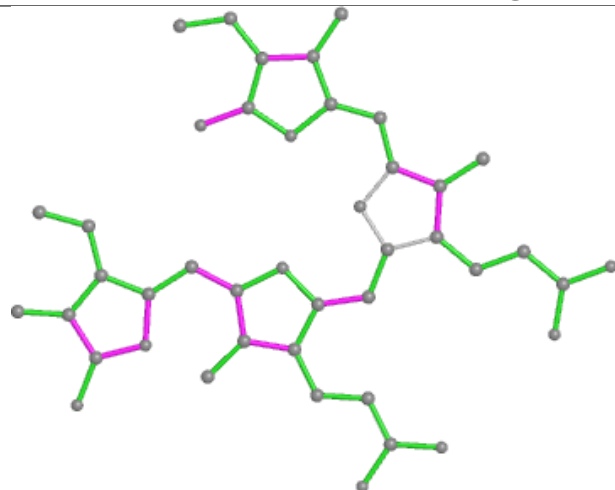
Torsions



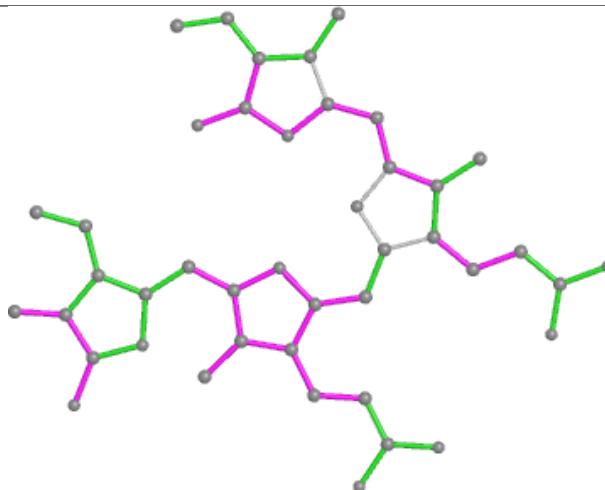
Rings



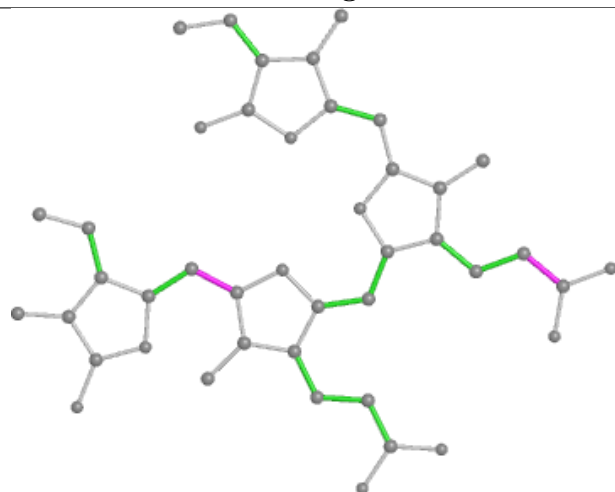
Ligand PEB G3 201



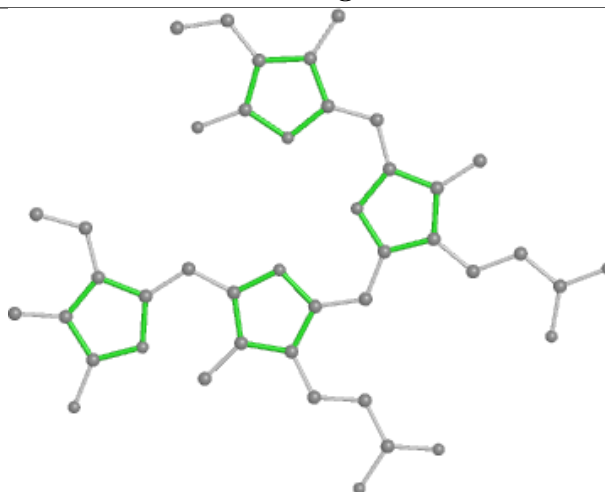
Bond lengths



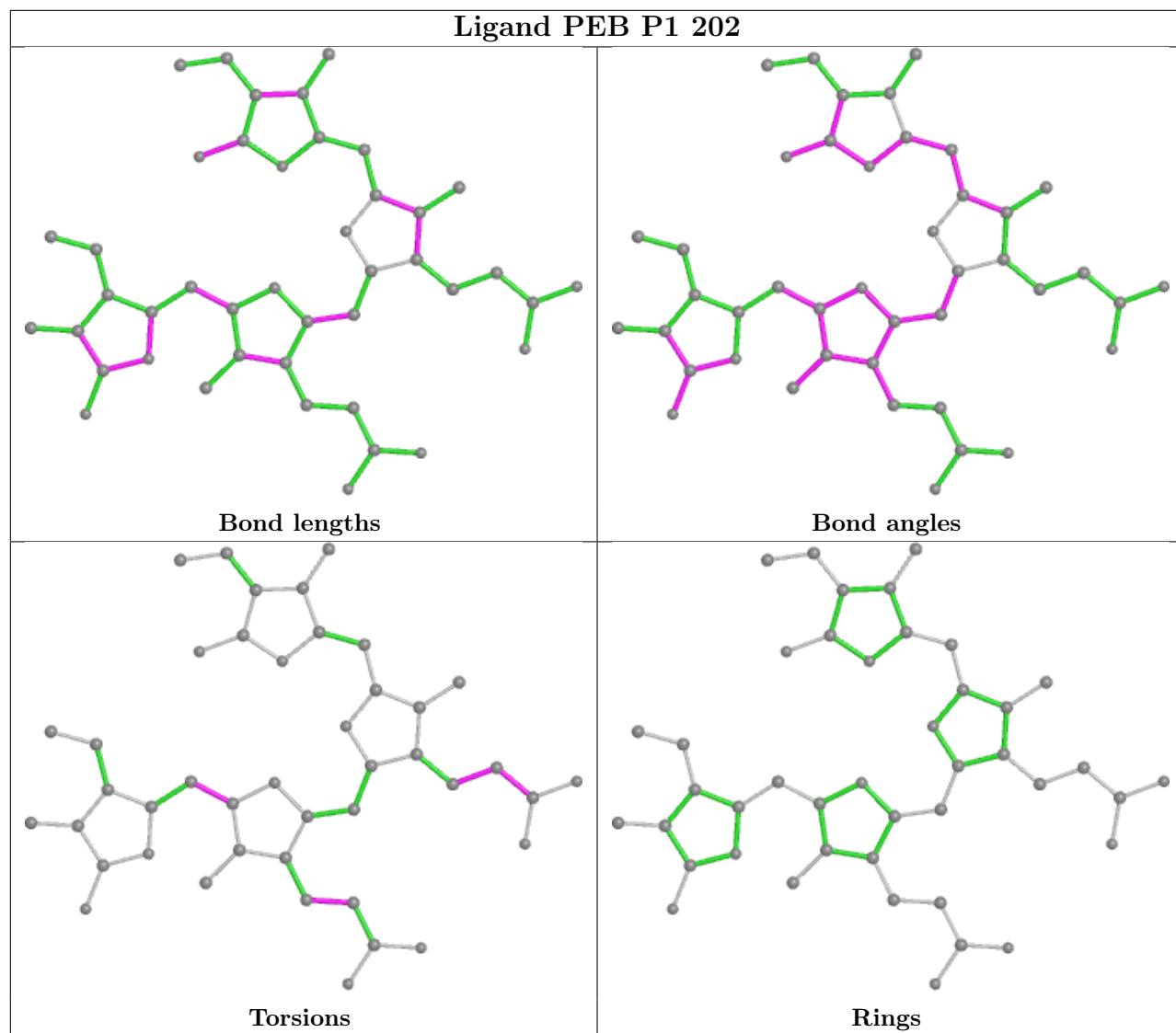
Bond angles



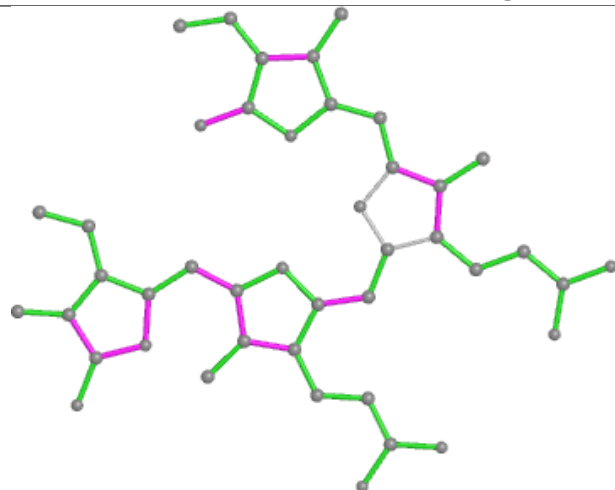
Torsions



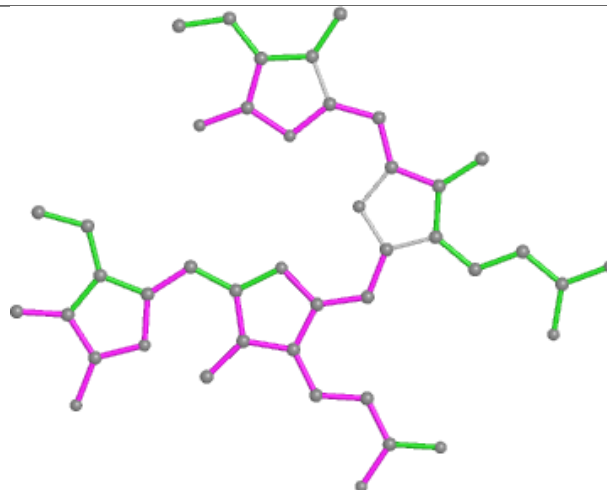
Rings



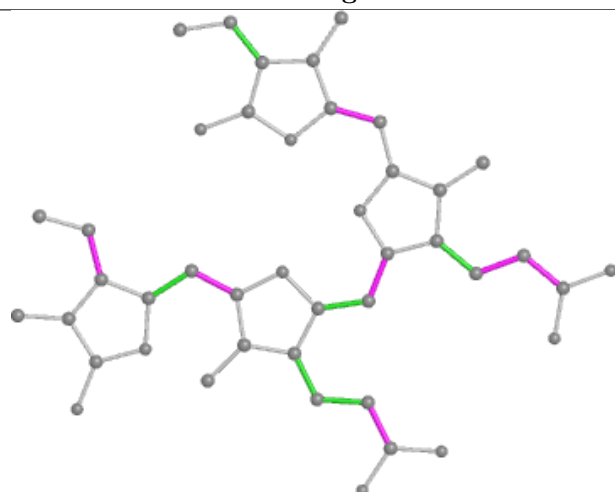
Ligand PEB DM 203



Bond lengths



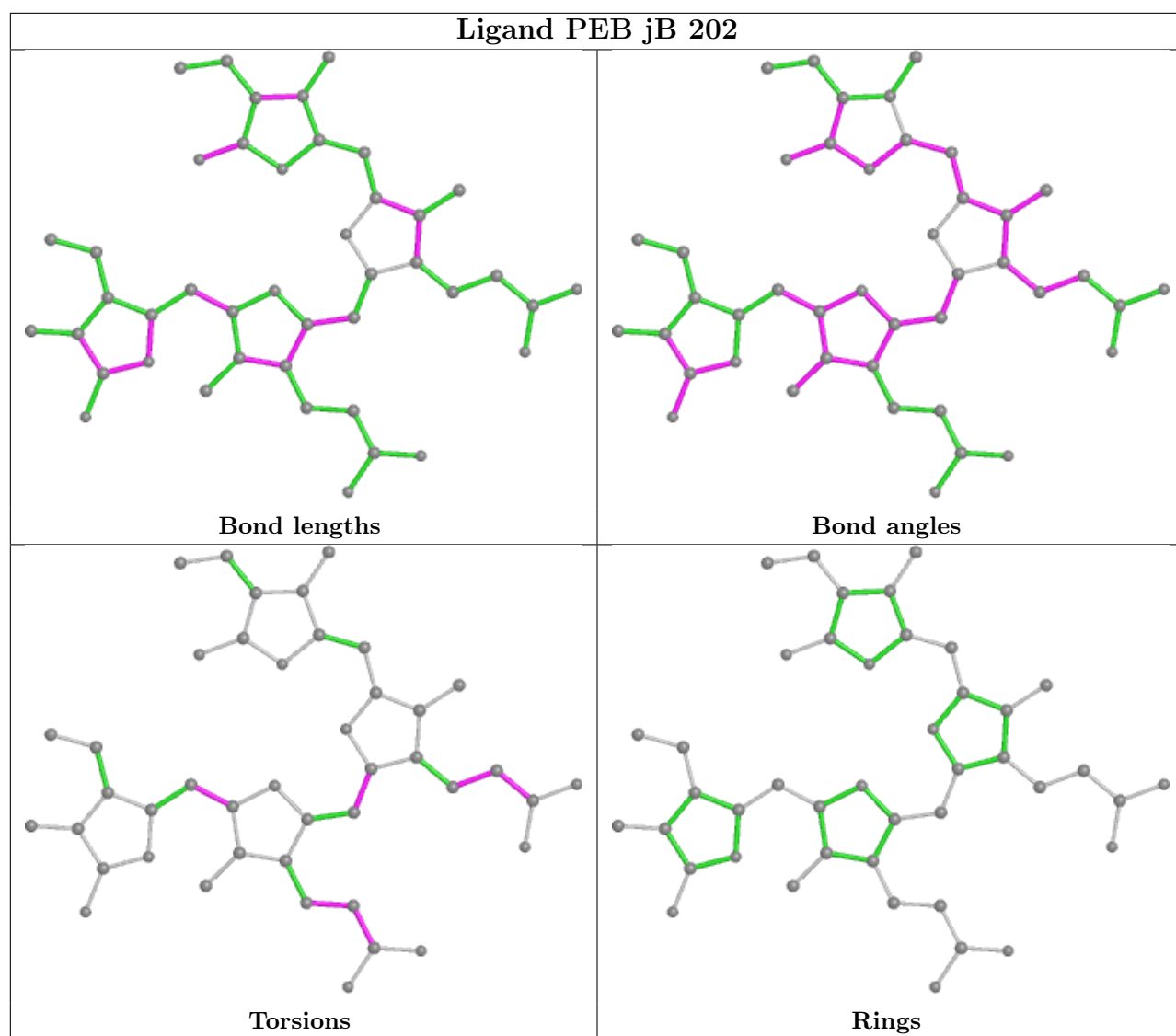
Bond angles



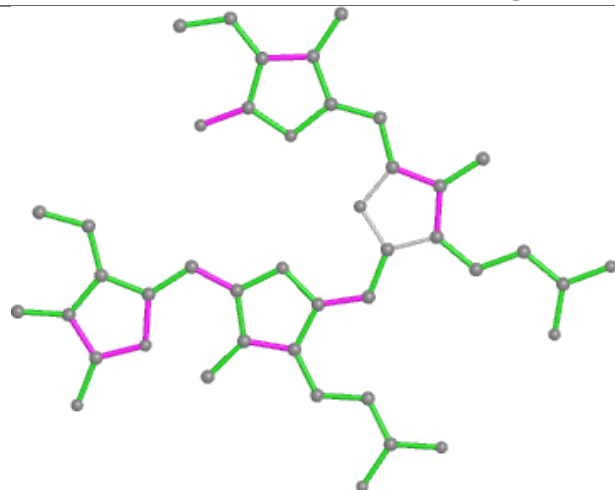
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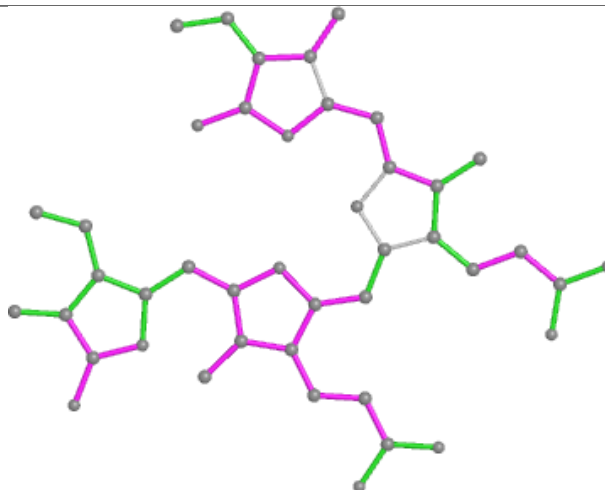
Rings



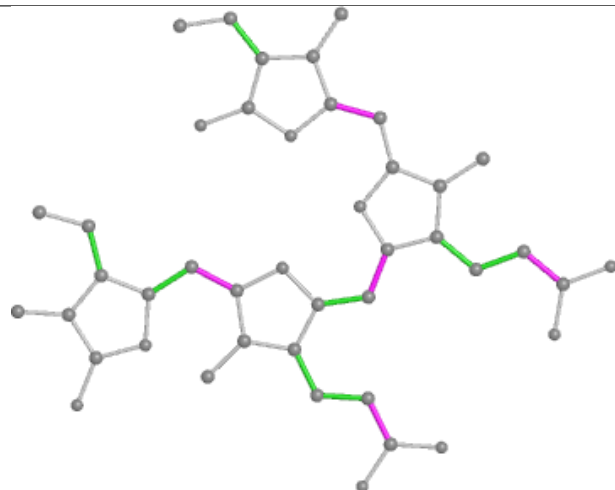
Ligand PEB A5 203



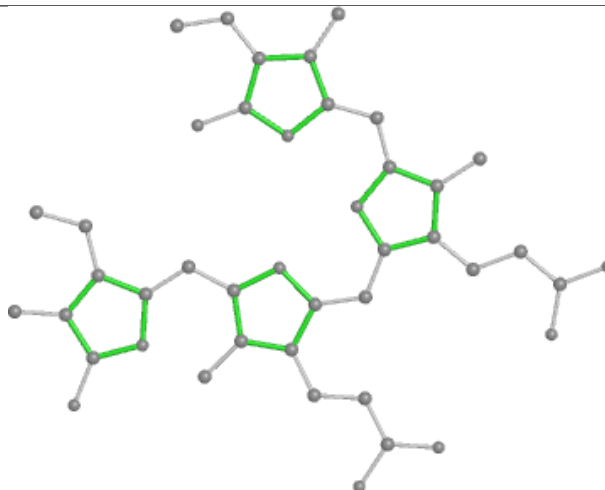
Bond lengths



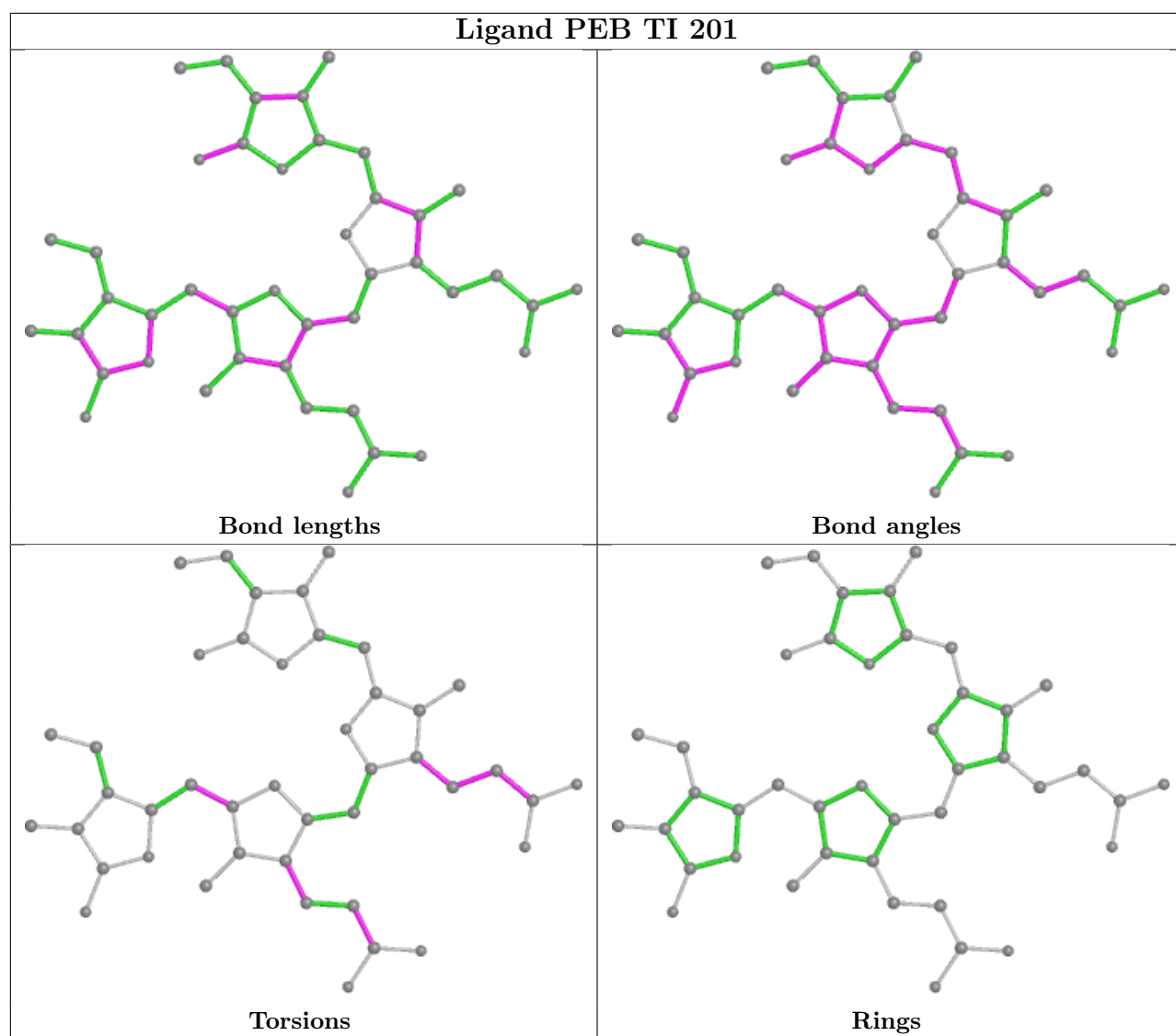
Bond angles



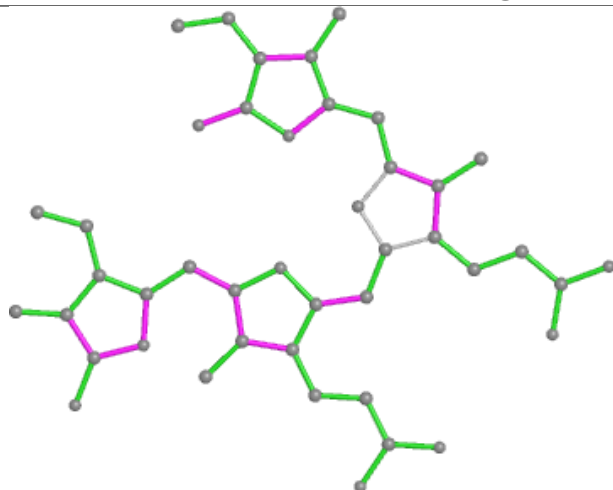
Torsions



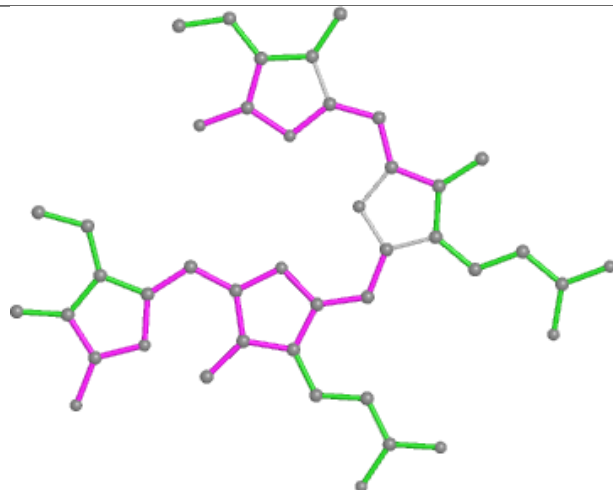
Rings



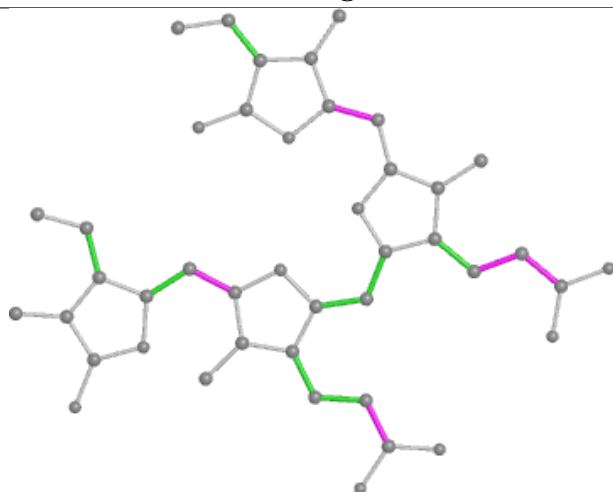
Ligand PEB MN 405



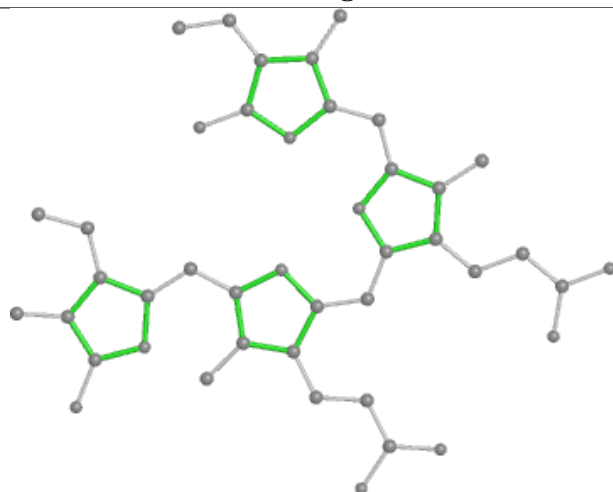
Bond lengths



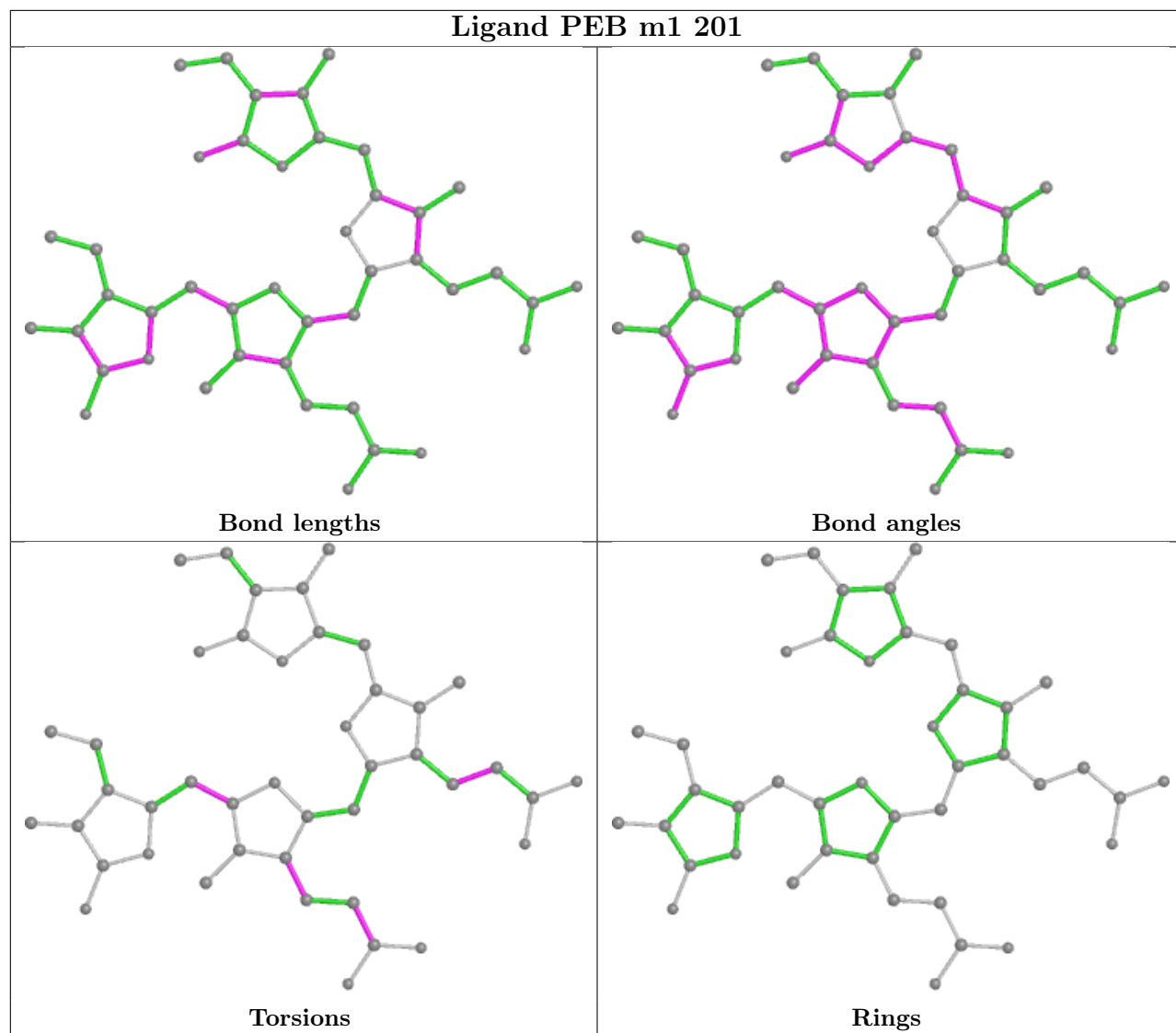
Bond angles



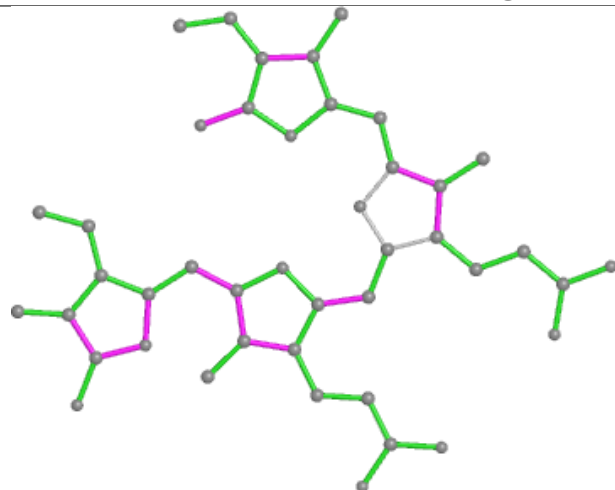
Torsions



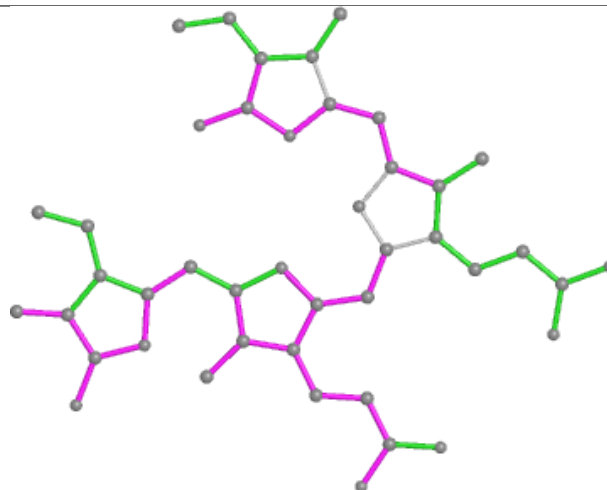
Rings



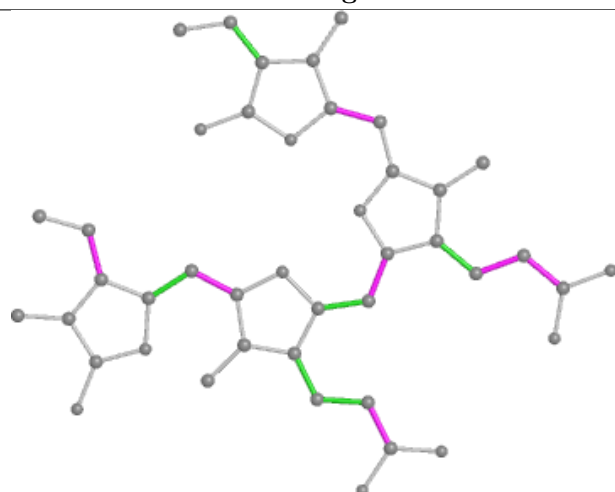
Ligand PEB RM 203



Bond lengths



Bond angles

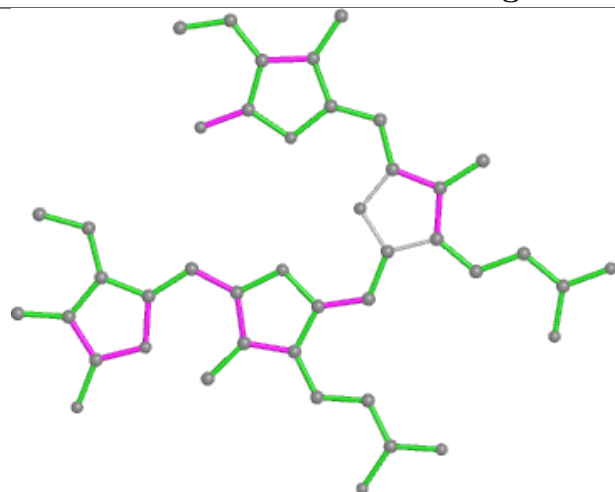


Torsions

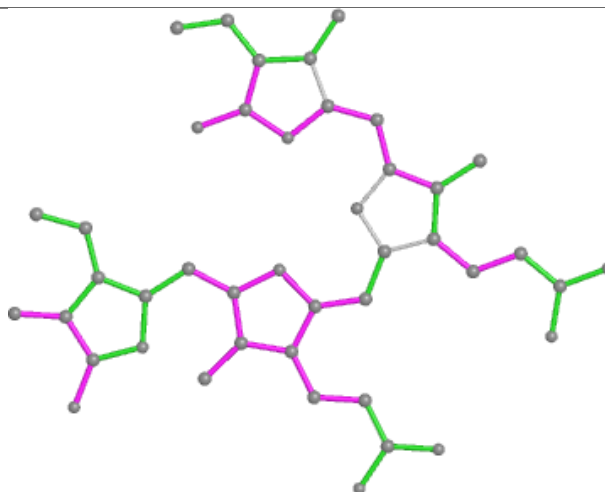


Rings

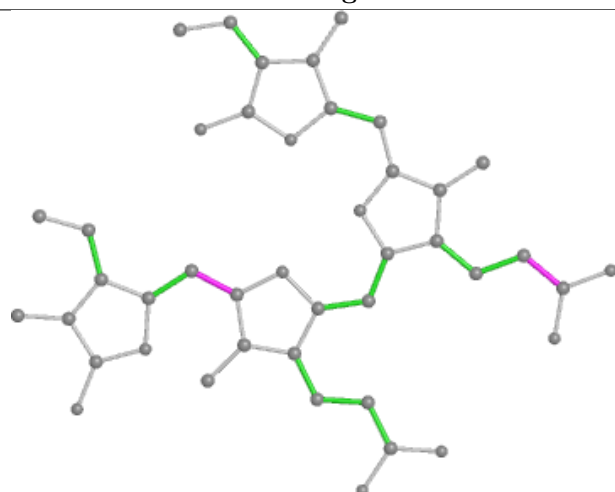
Ligand PEB GO 201



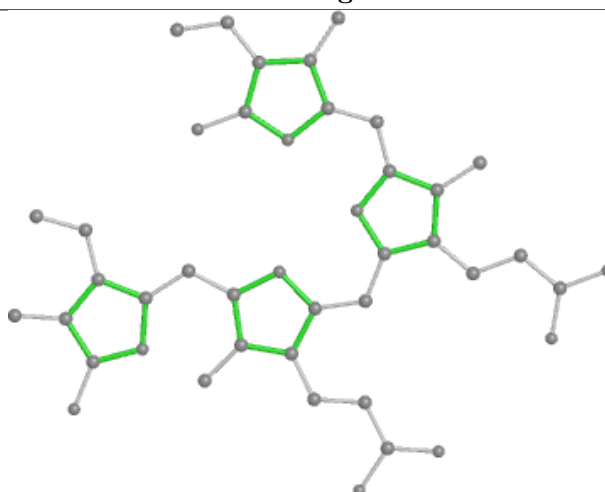
Bond lengths



Bond angles

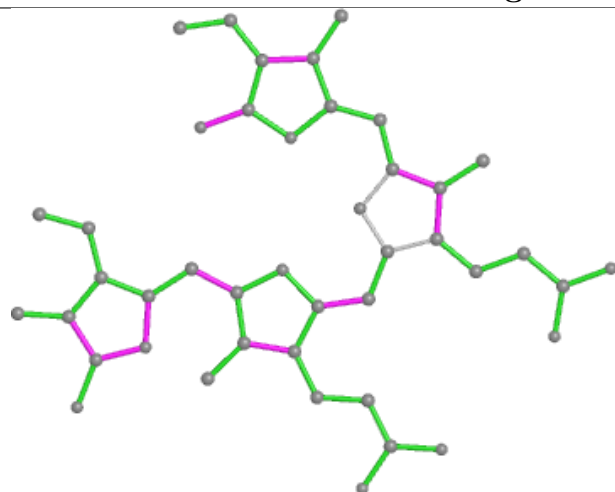


Torsions

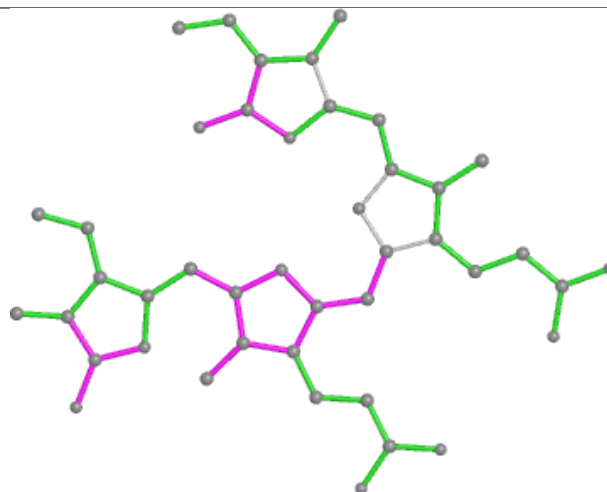


Rings

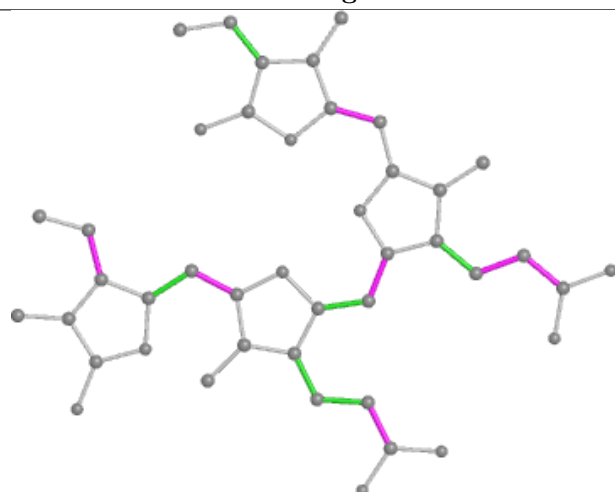
Ligand PEB NL 203



Bond lengths



Bond angles

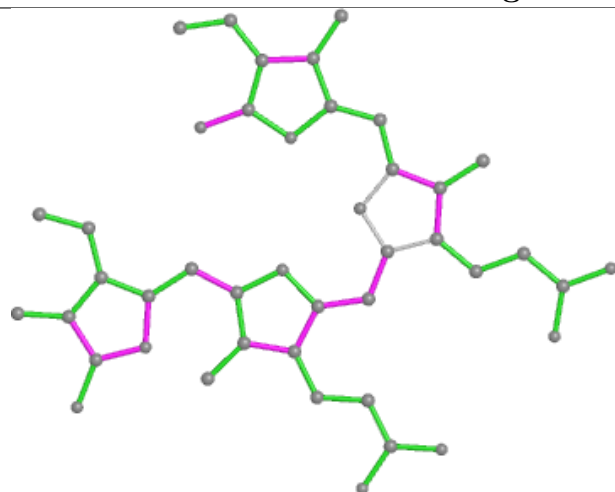


Torsions

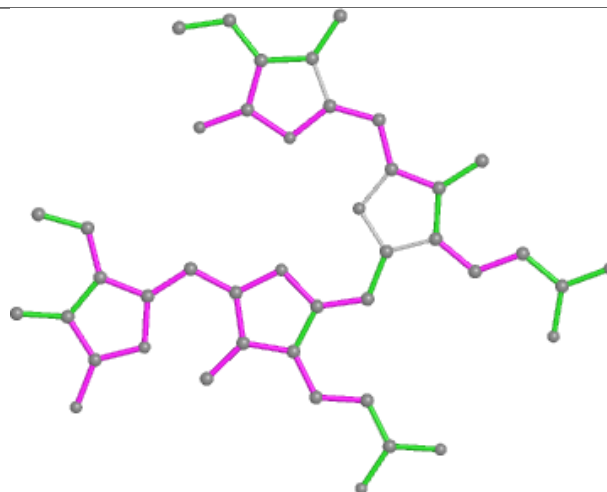


Rings

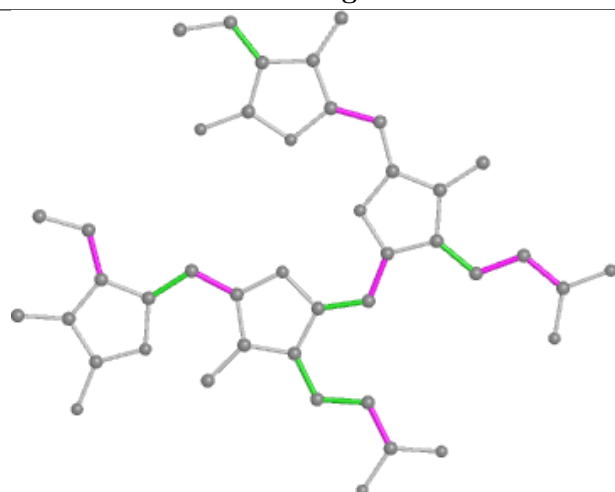
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Bond lengths



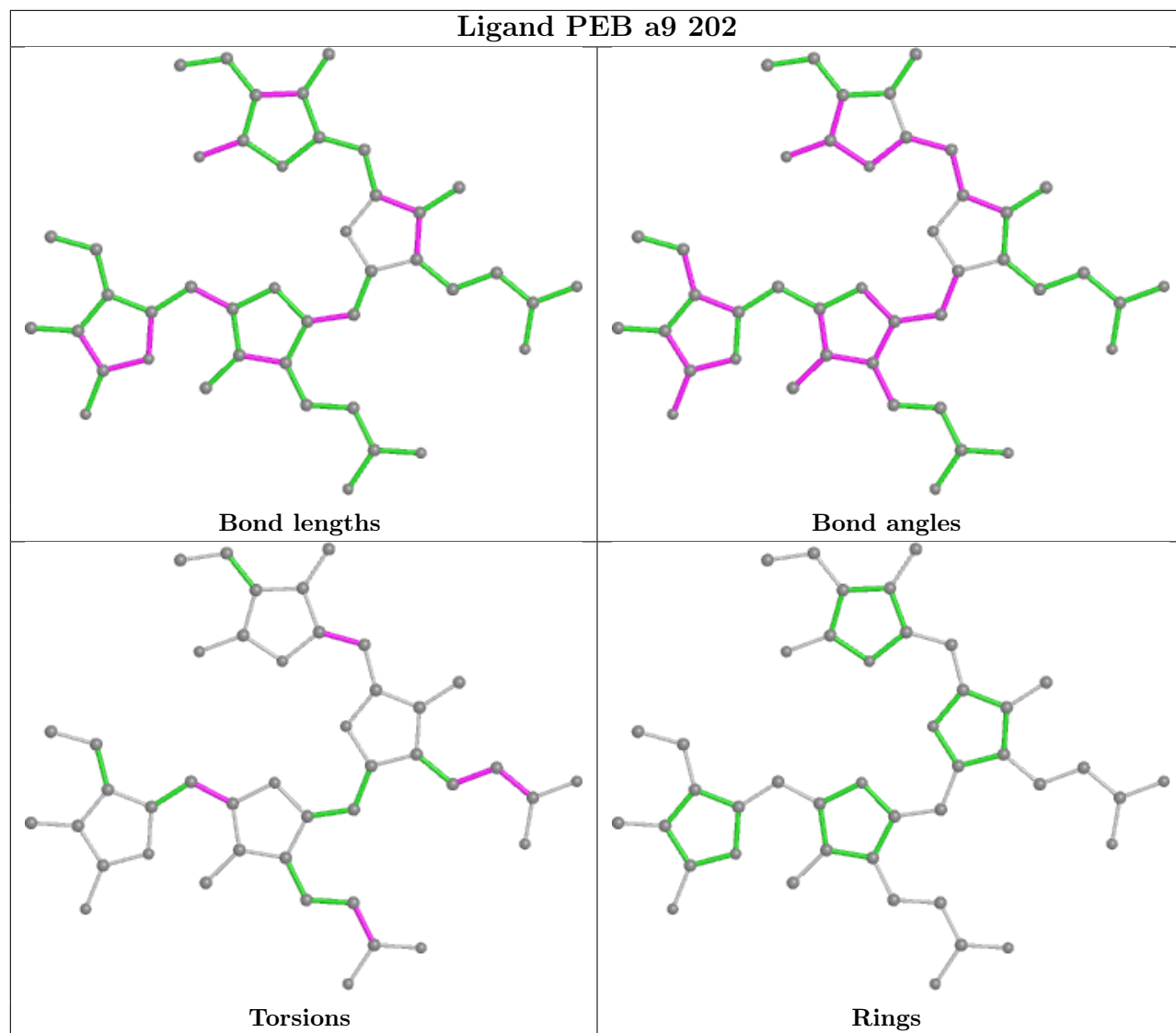
Bond angles



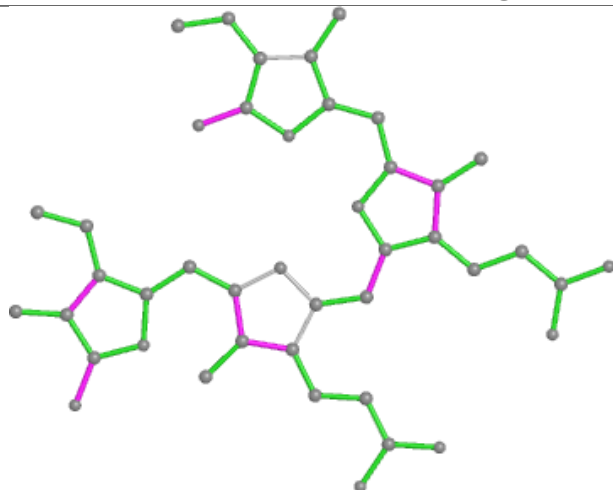
Torsions



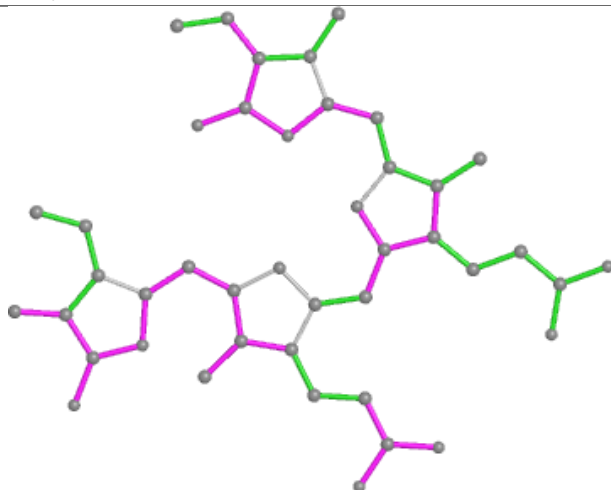
Rings



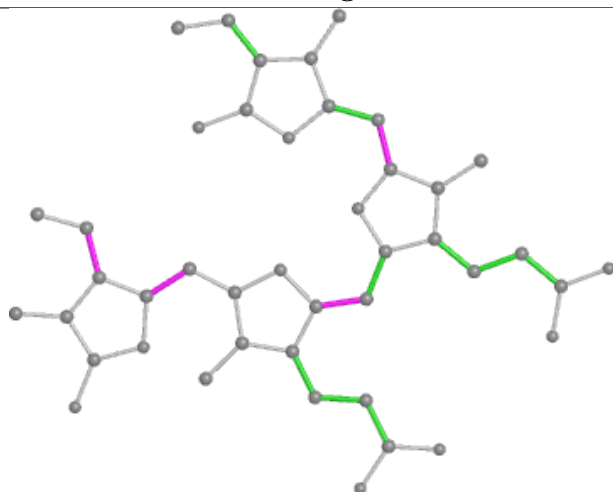
Ligand PUB QM 201



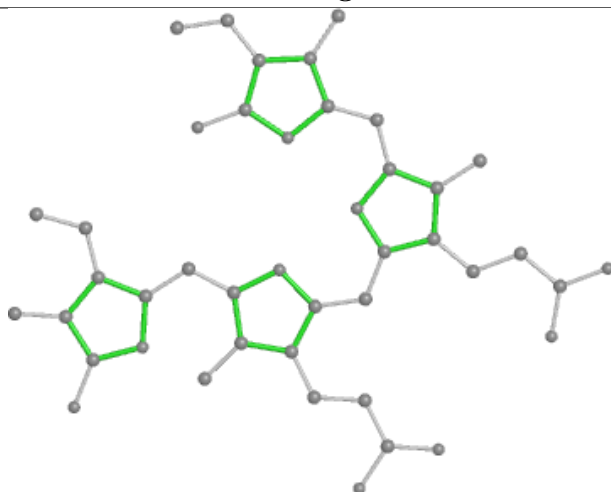
Bond lengths



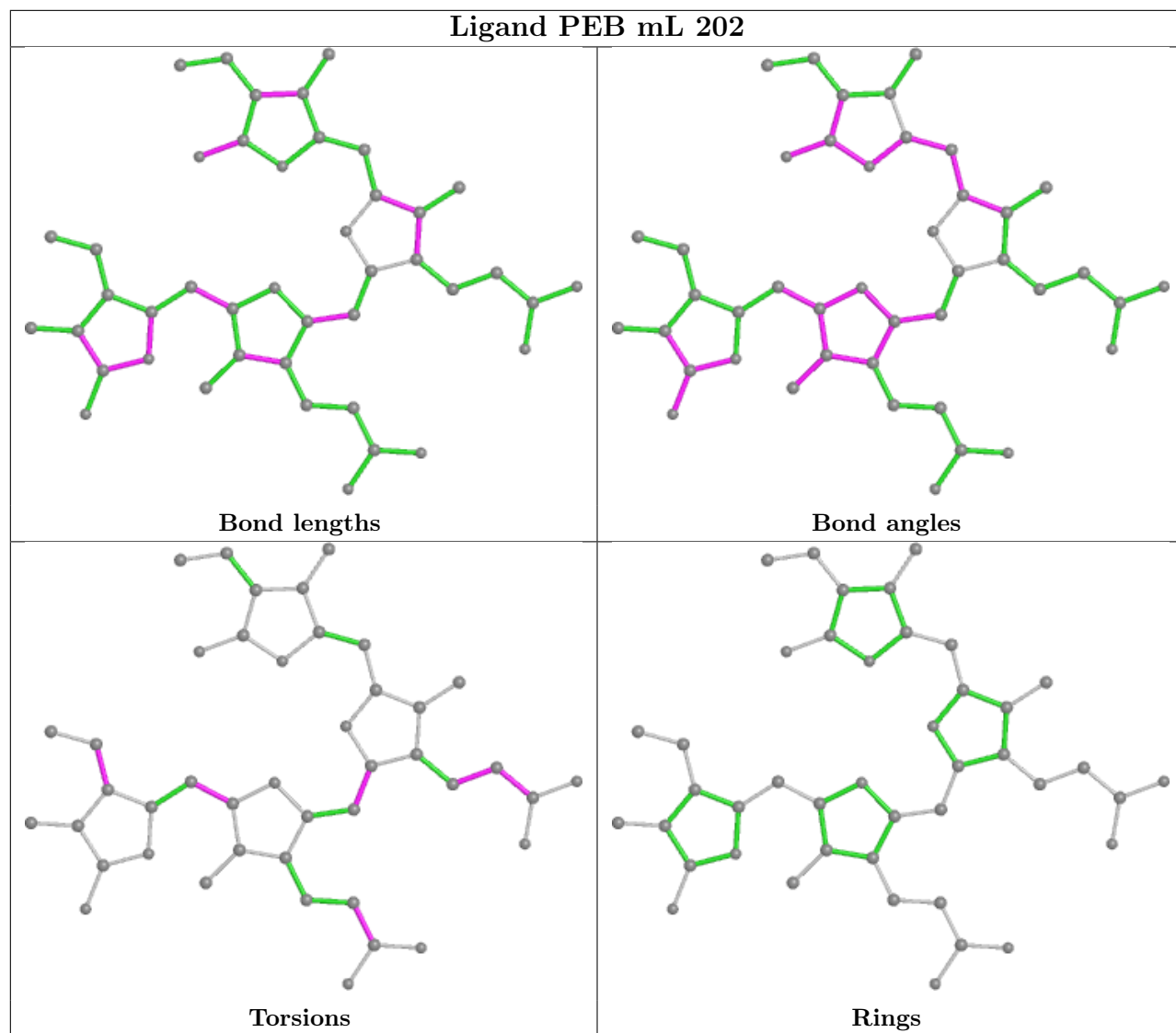
Bond angles

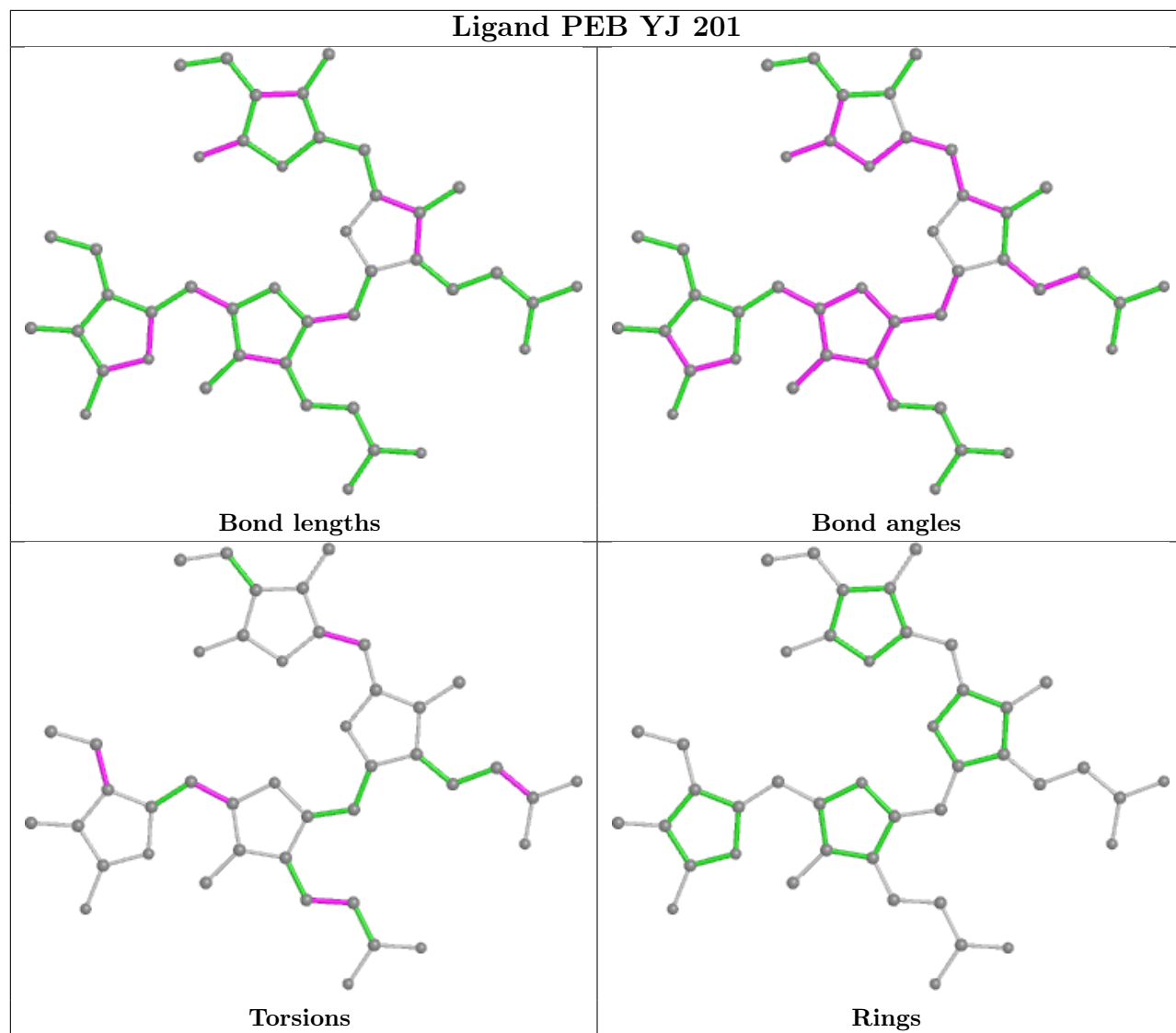


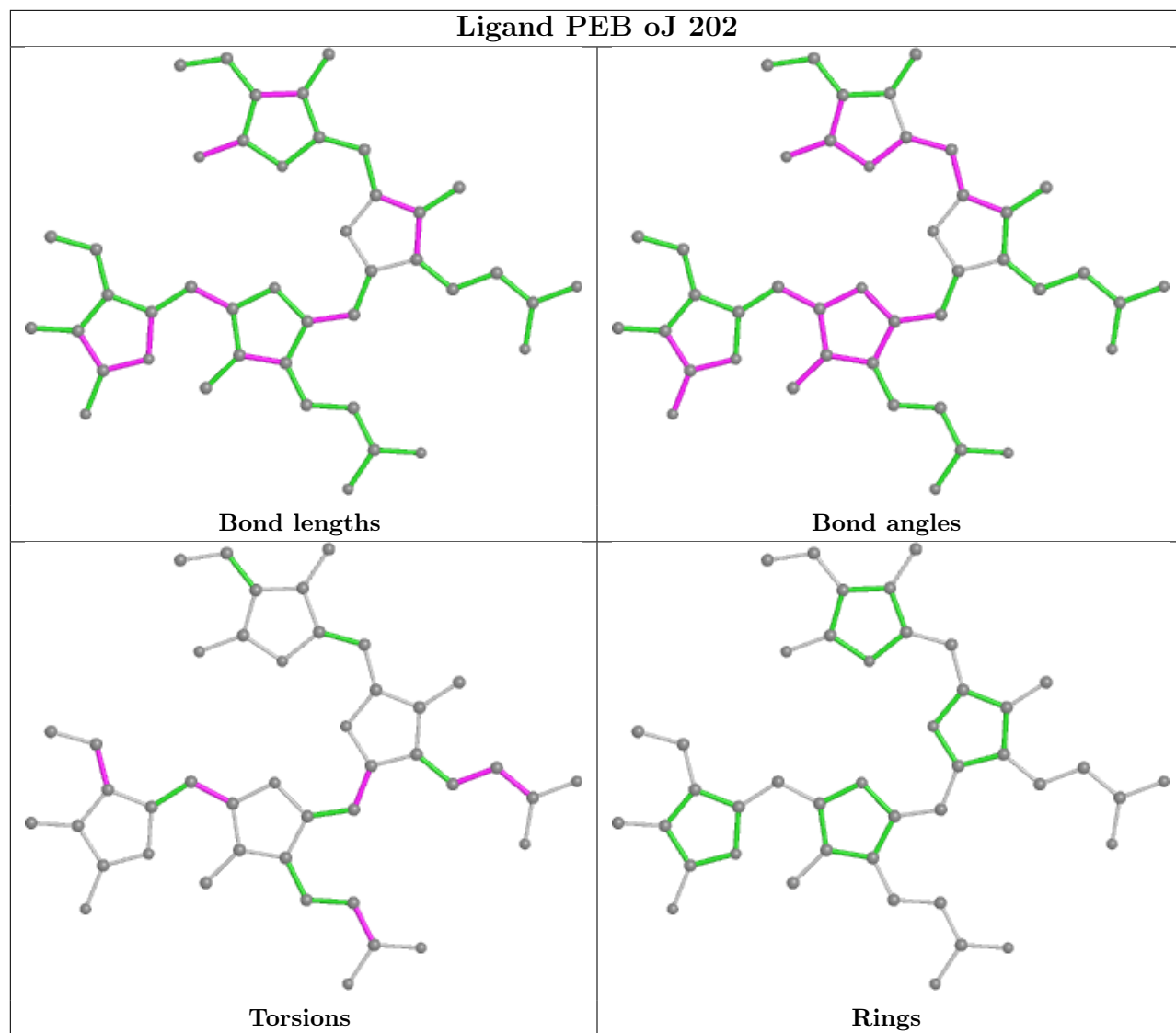
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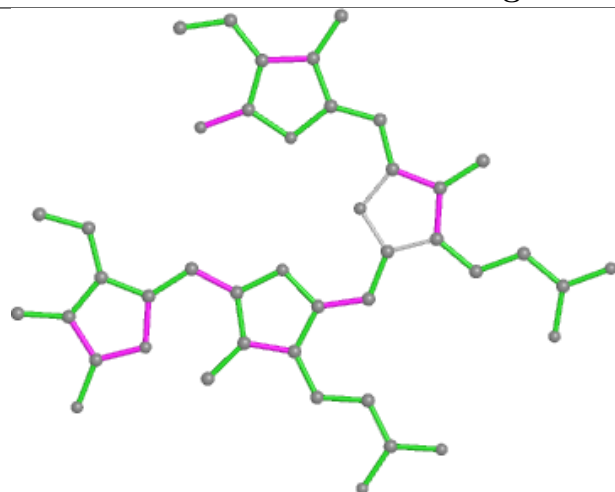
Rings



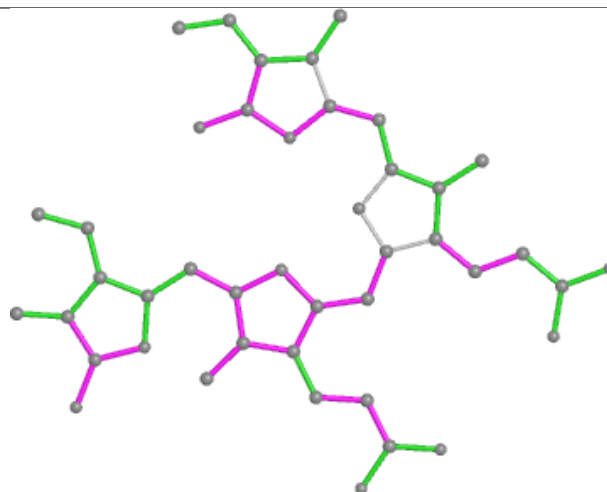




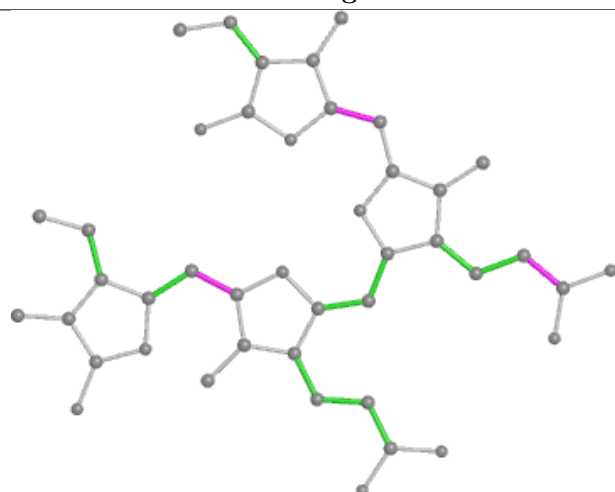
Ligand PEB HB 201



Bond lengths



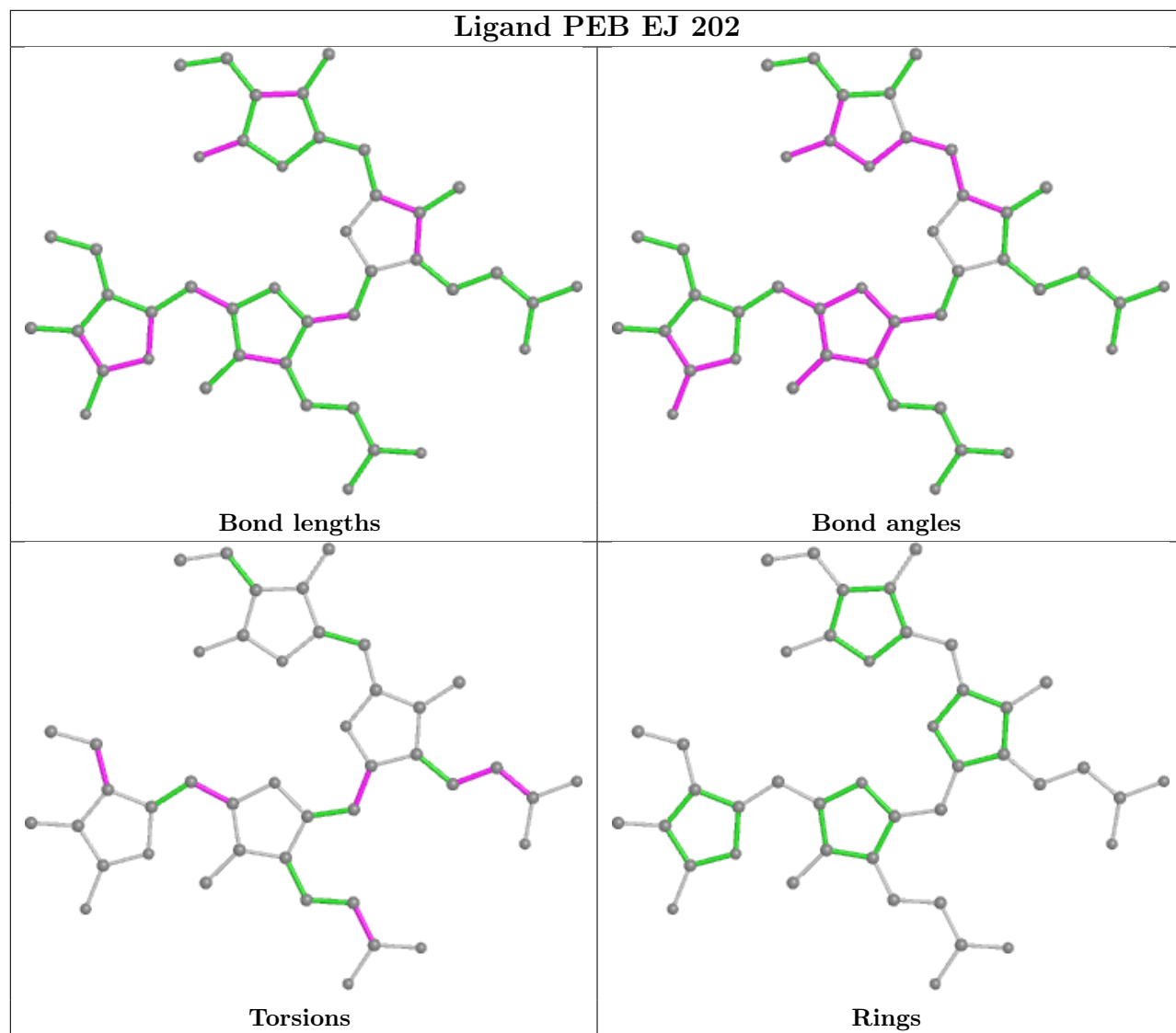
Bond angles



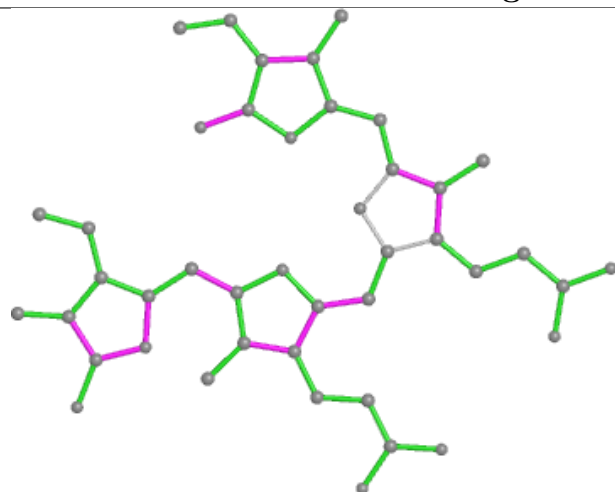
Torsions



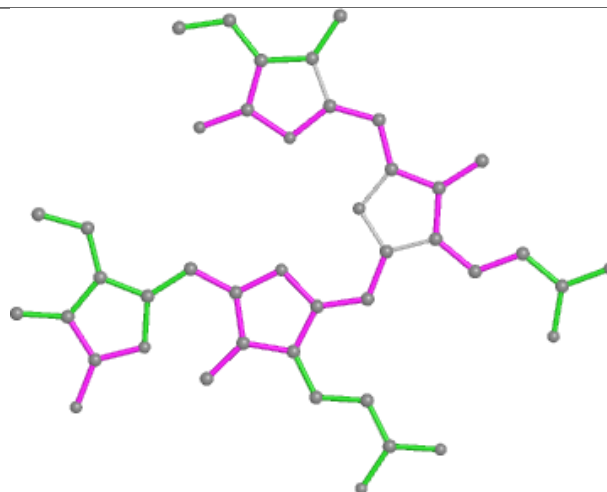
Rings



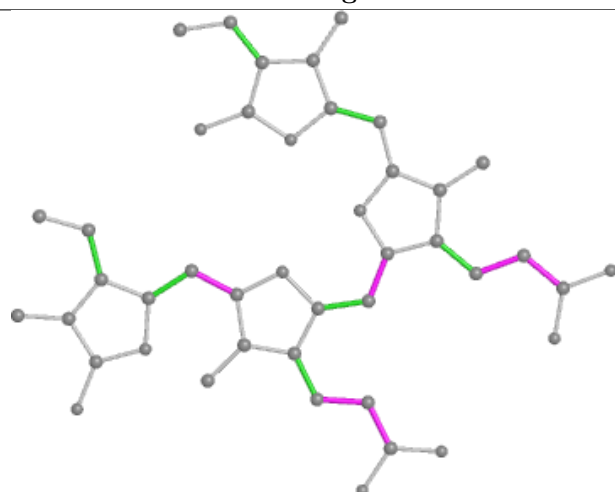
Ligand PEB SM 202



Bond lengths



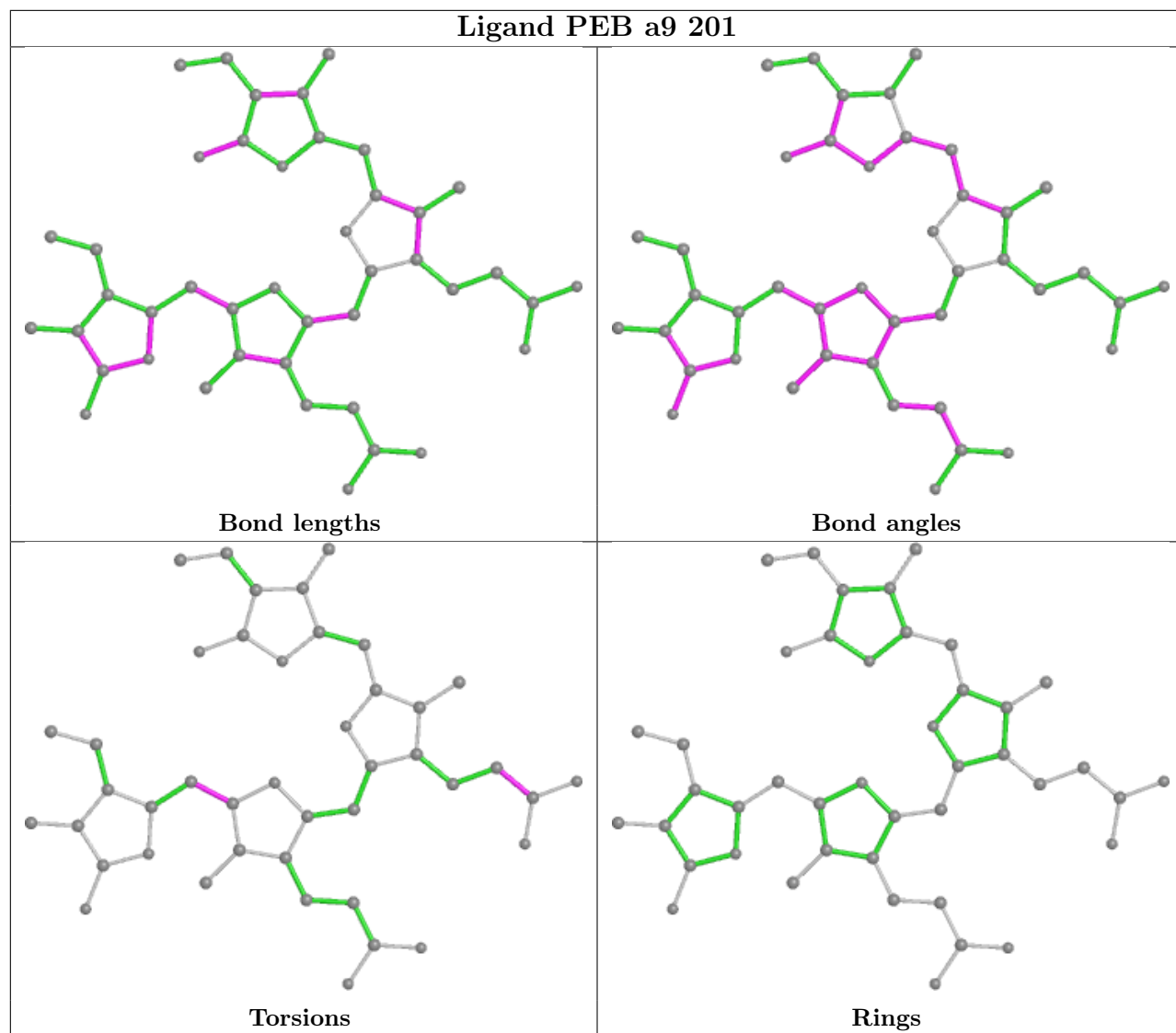
Bond angles



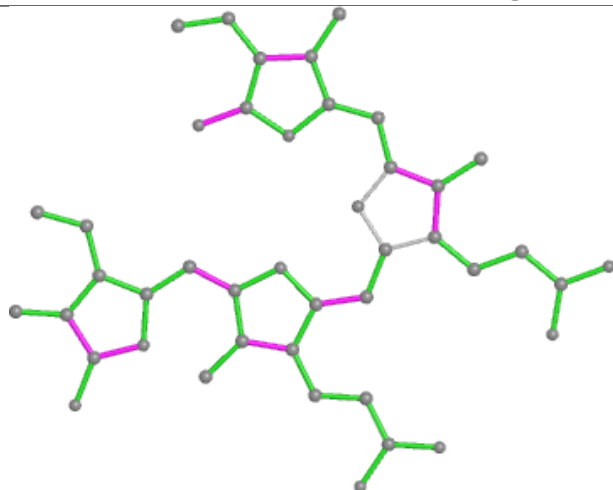
Torsions



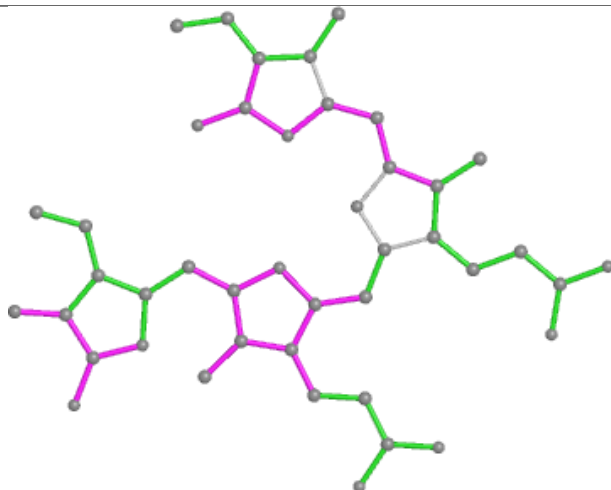
Rings



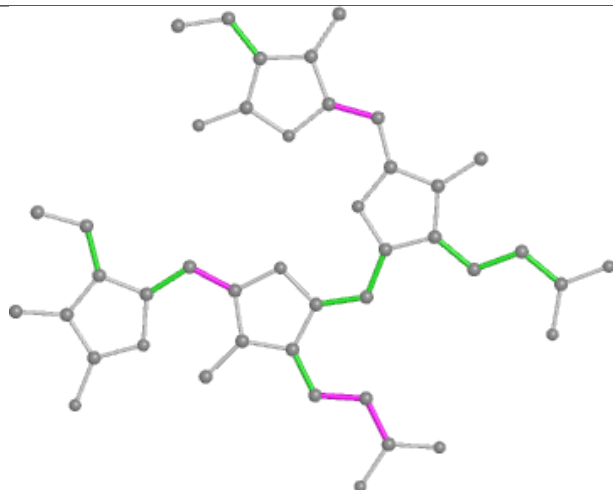
Ligand PEB P1 203



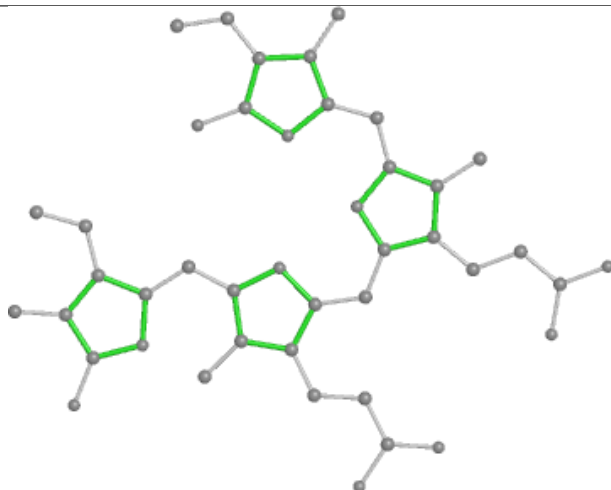
Bond lengths



Bond angles

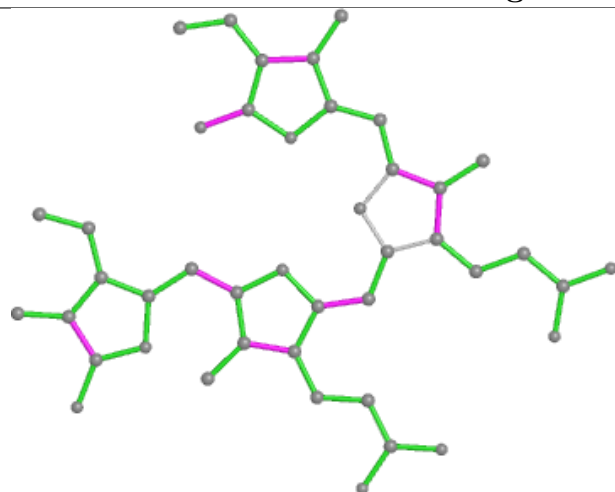


Torsions

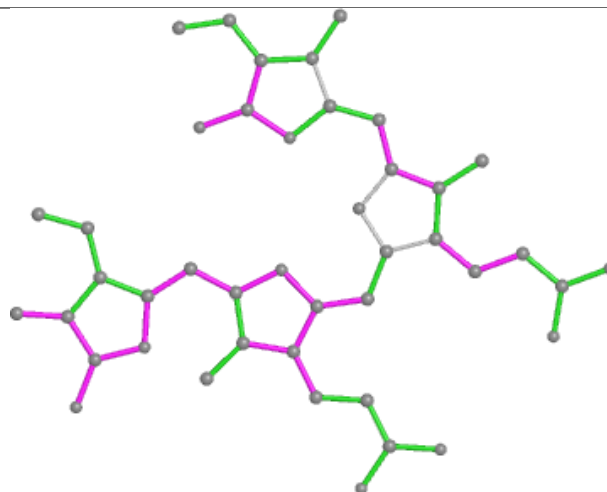


Rings

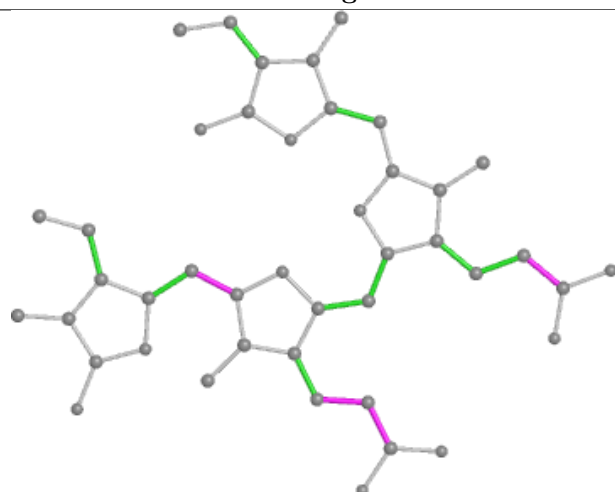
Ligand PEB TL 201



Bond lengths



Bond angles

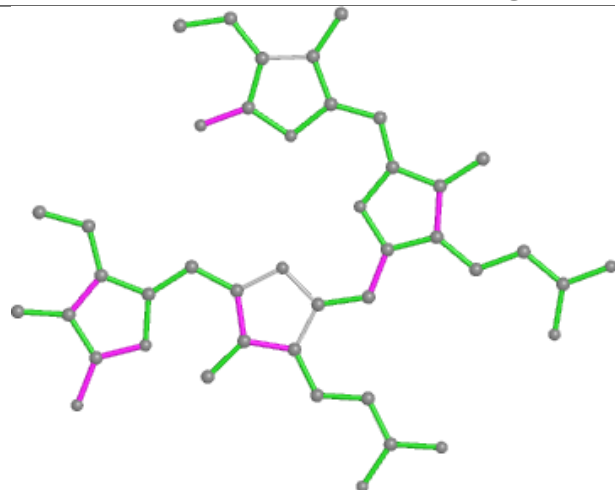


Torsions

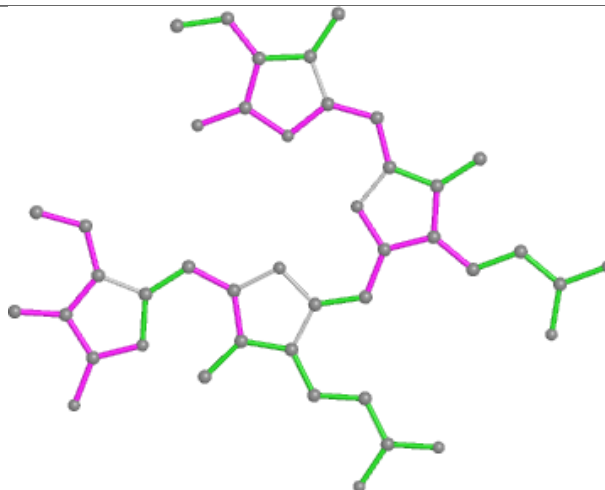


Rings

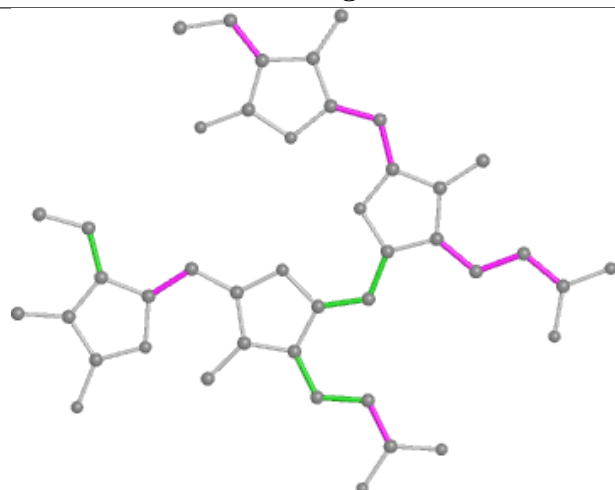
Ligand PUB A1 305



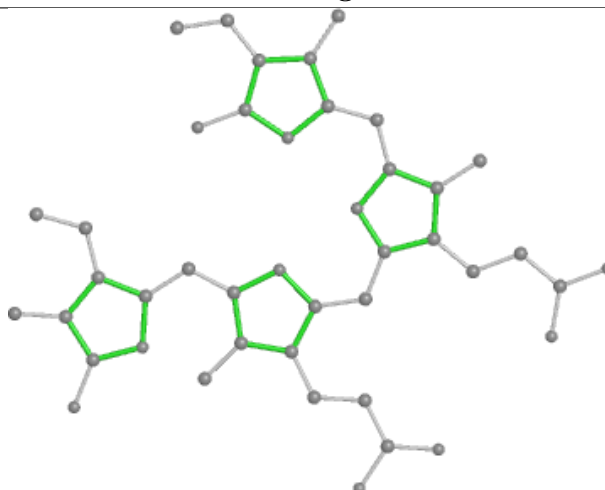
Bond lengths



Bond angles

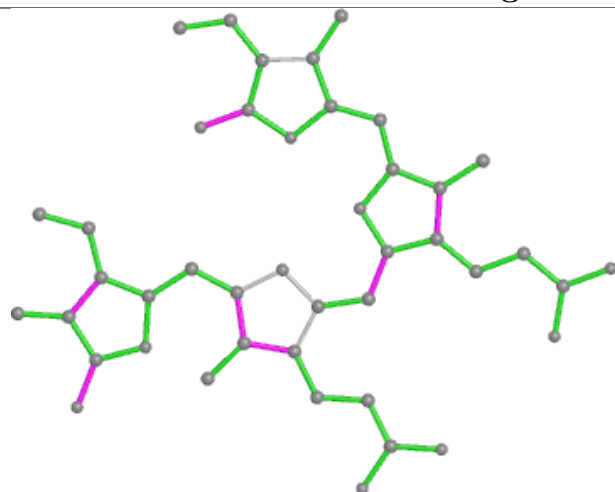


Torsions

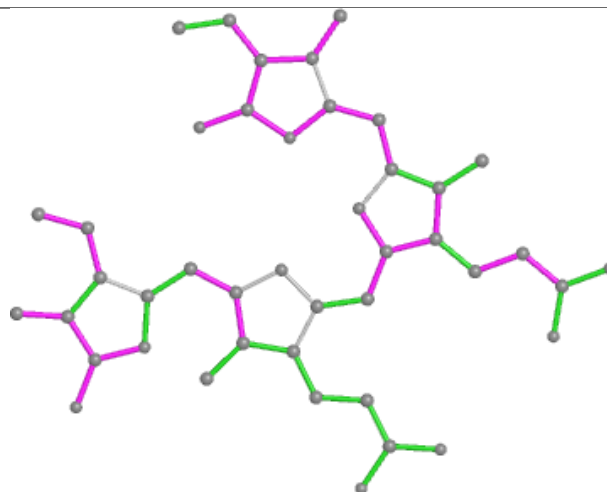


Rings

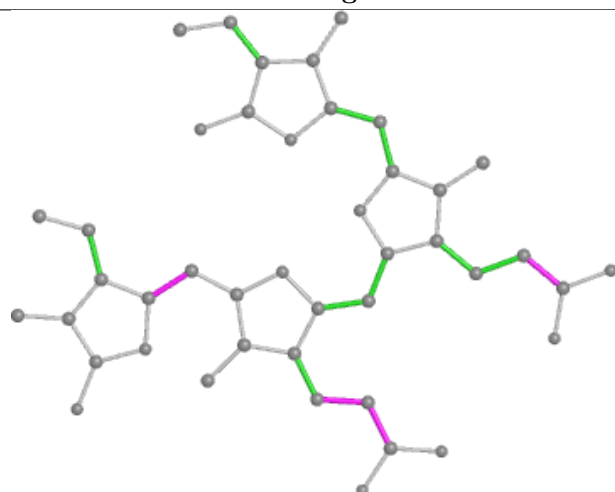
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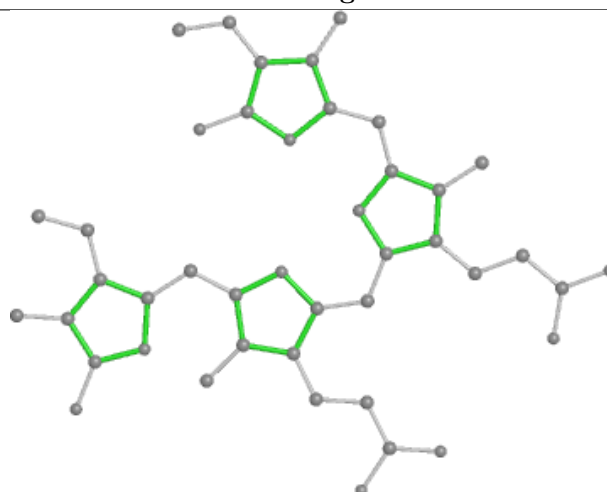
Bond lengths



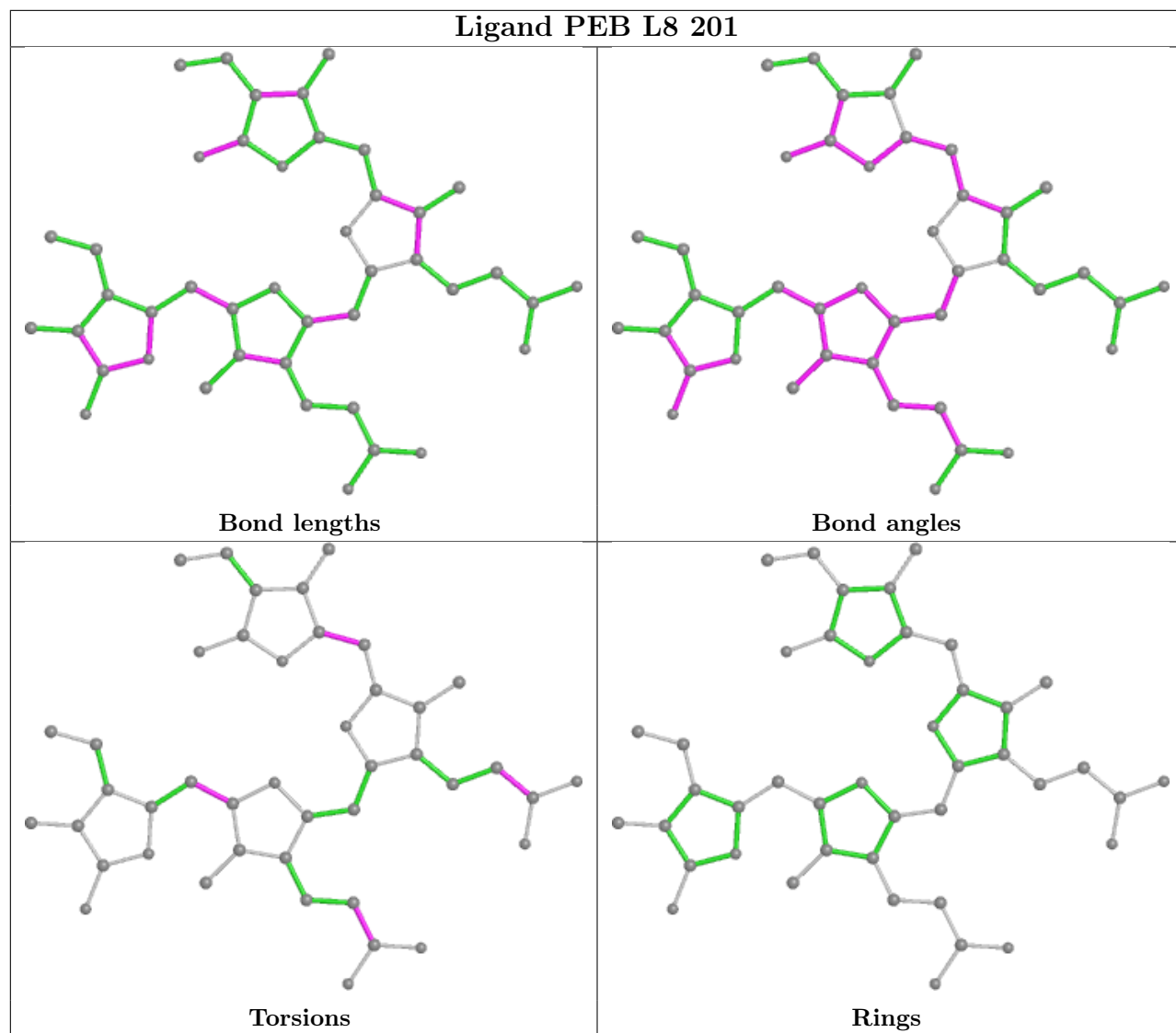
Bond angles



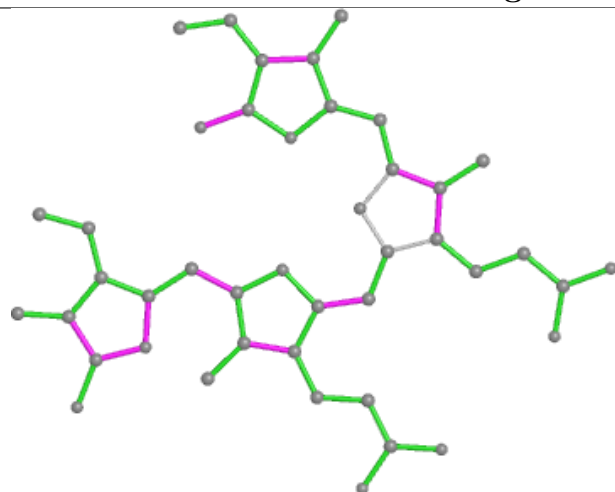
Torsions



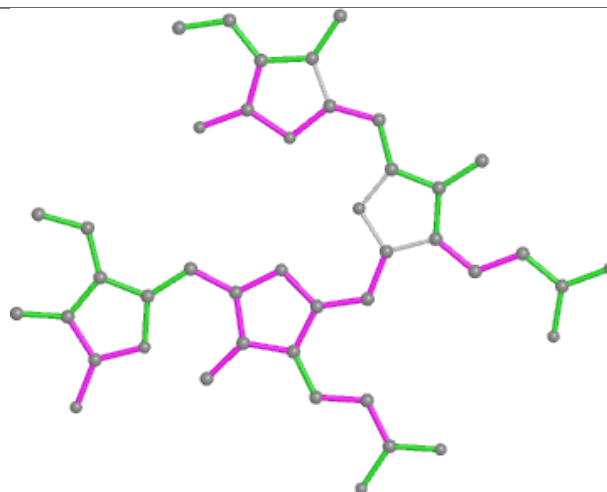
Rings



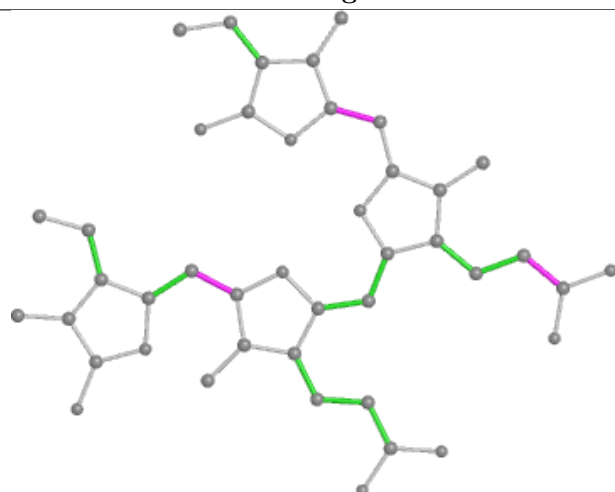
Ligand PEB TB 201



Bond lengths



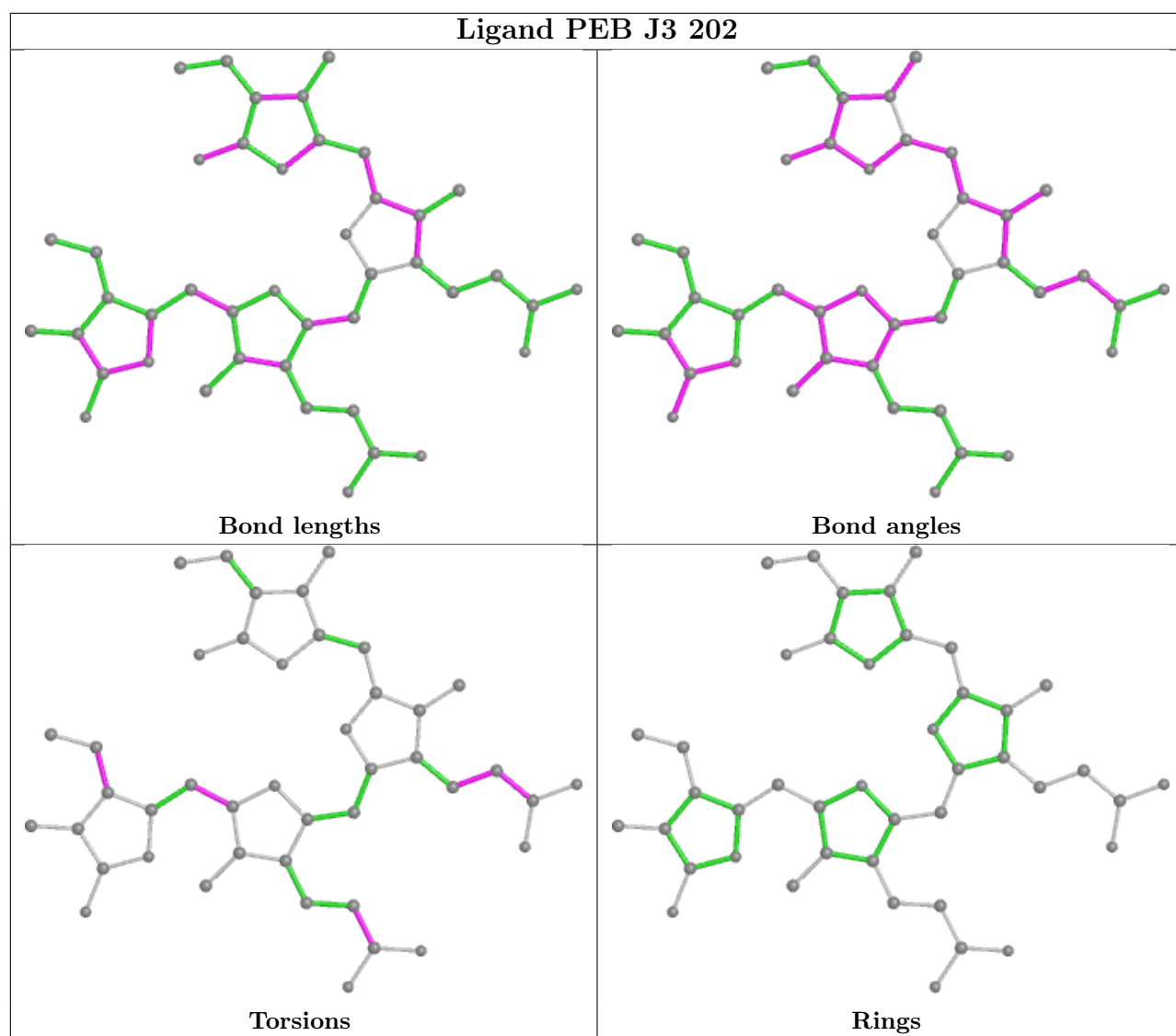
Bond angles



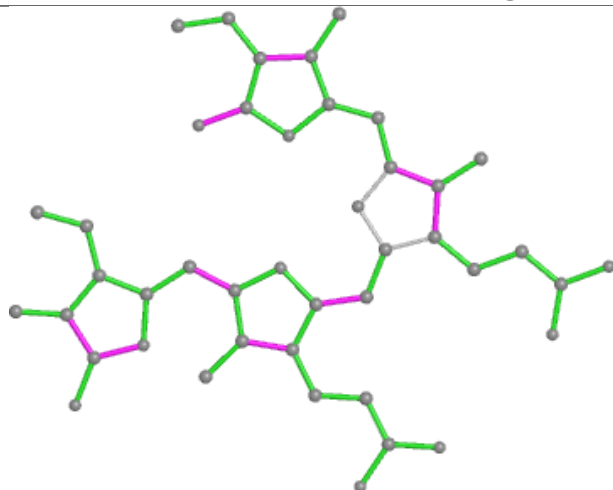
Torsions



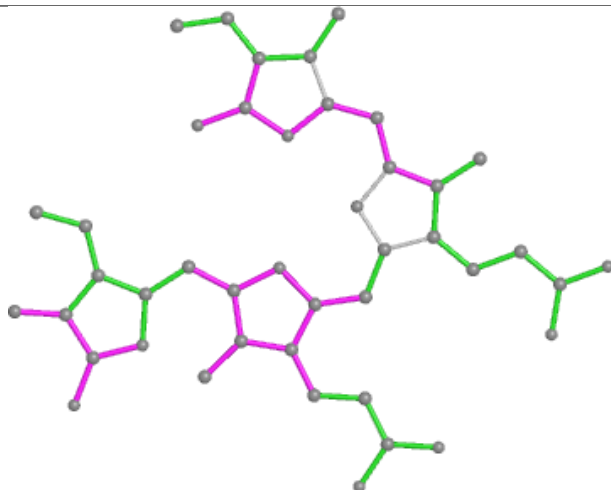
Rings



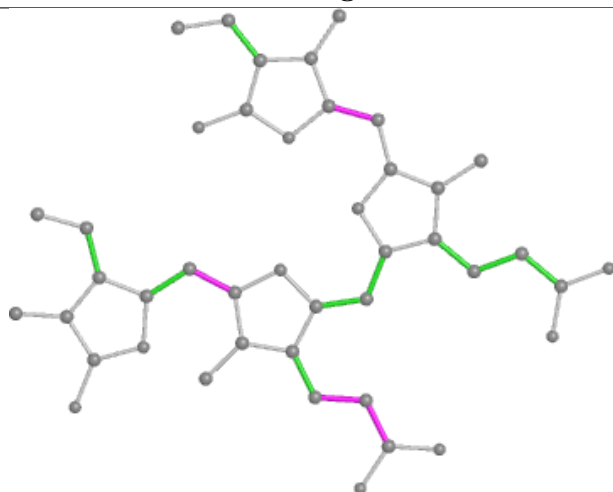
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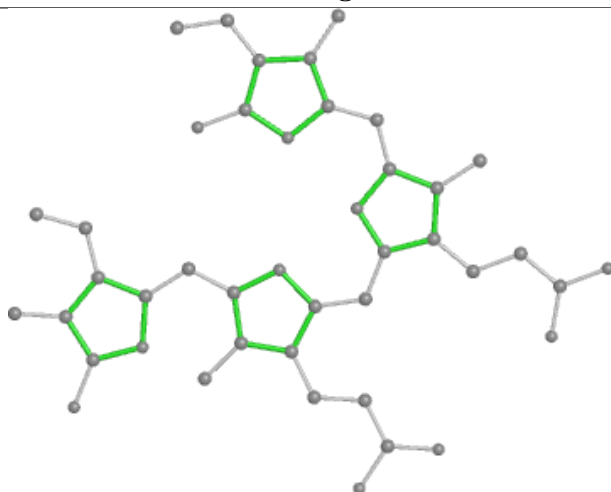
Bond lengths



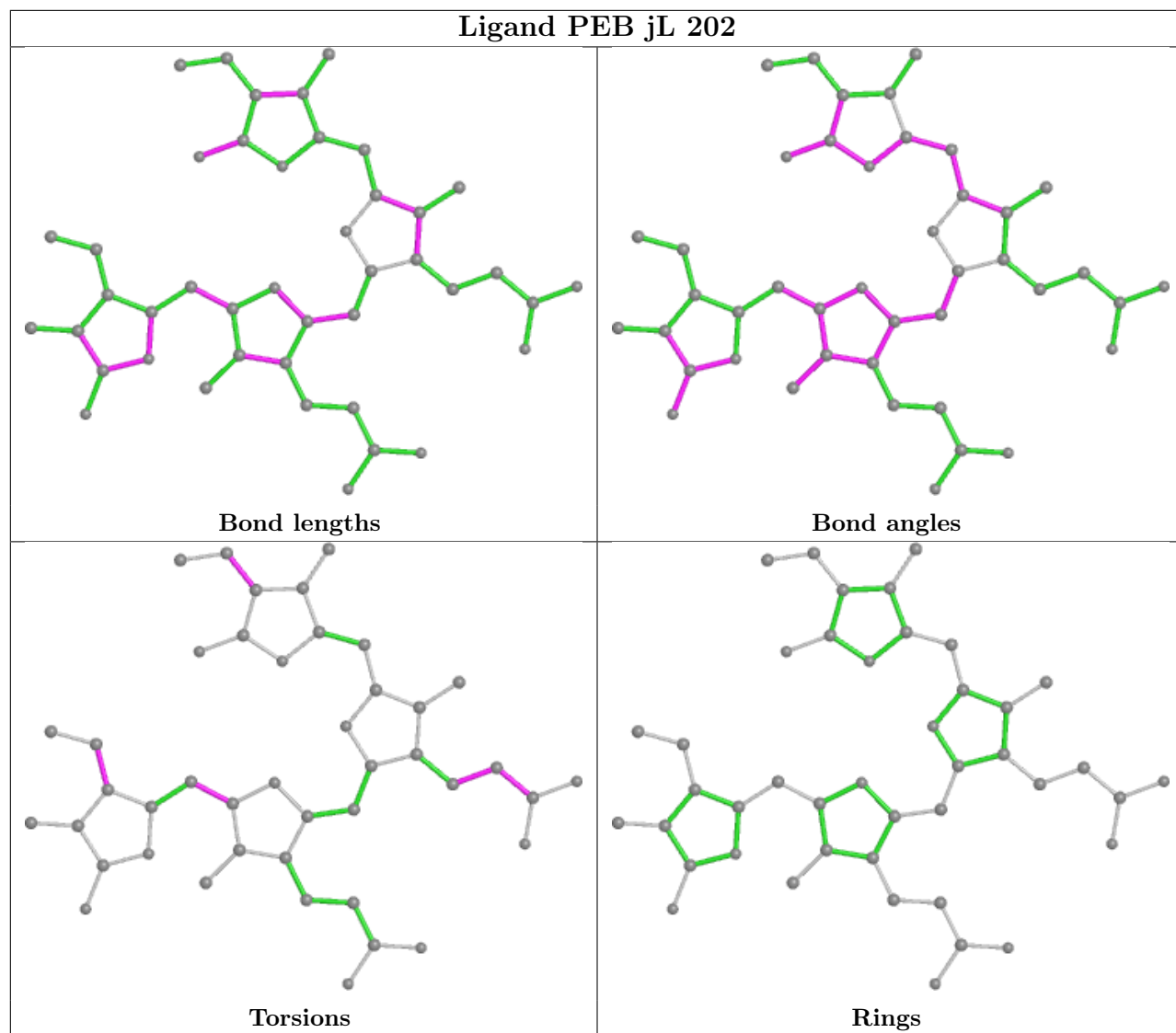
Bond angles

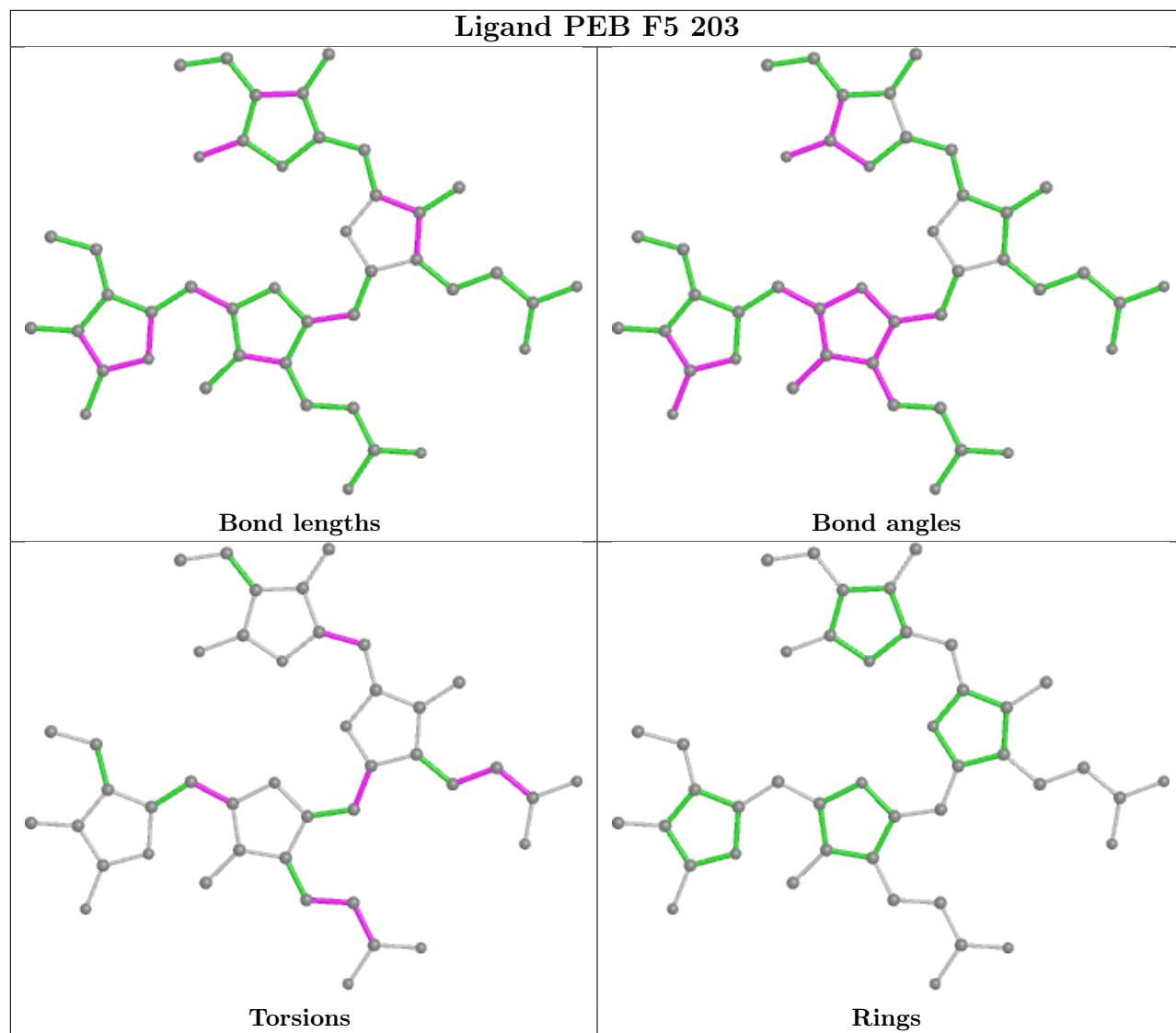


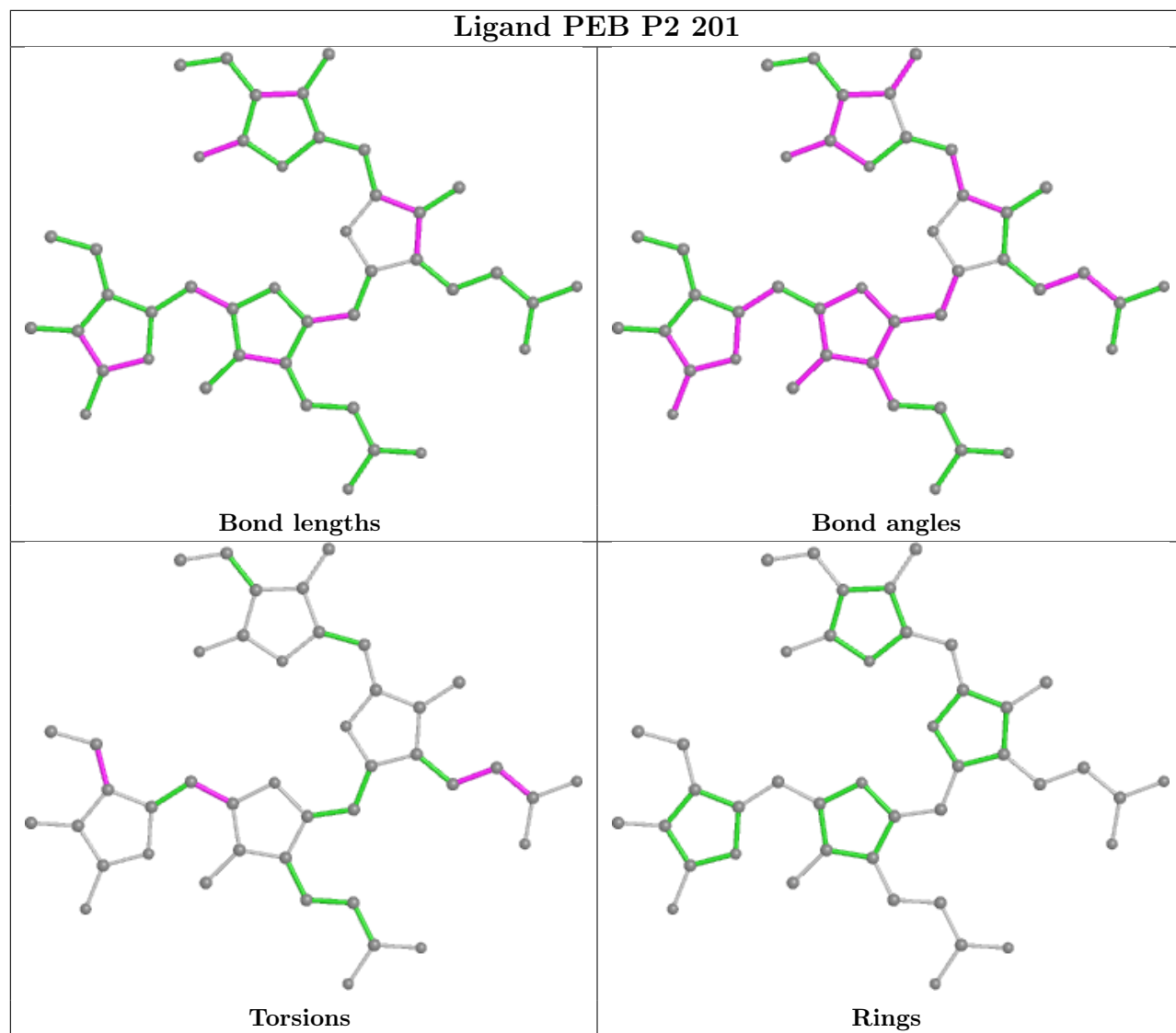
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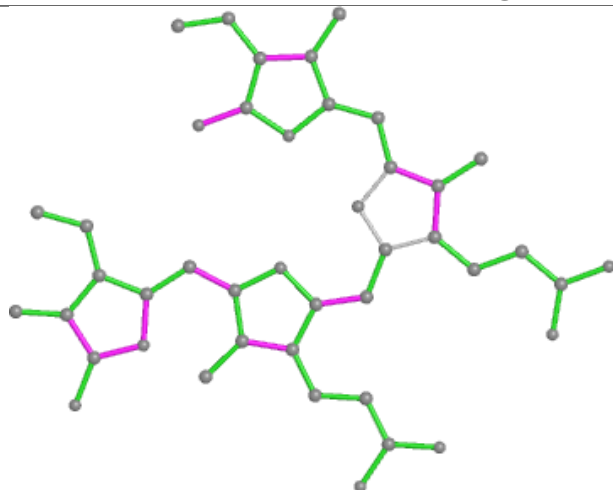
Rings



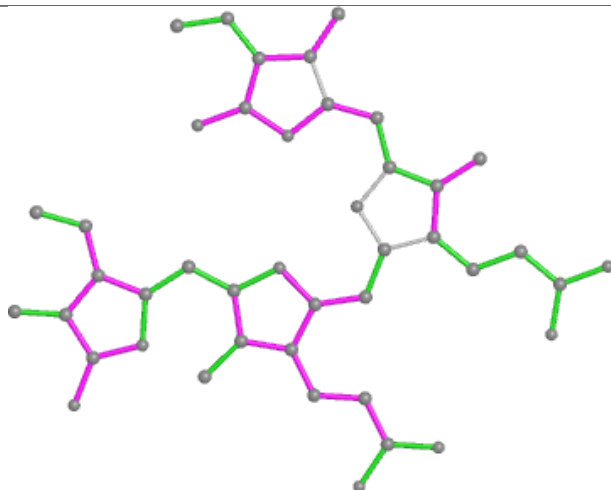




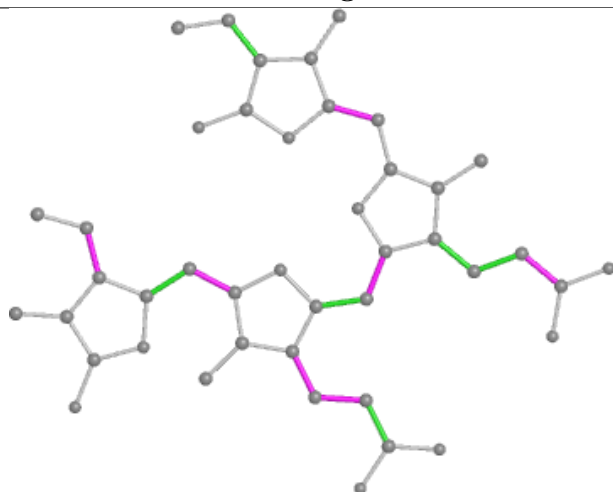
Ligand PEB D9 1002



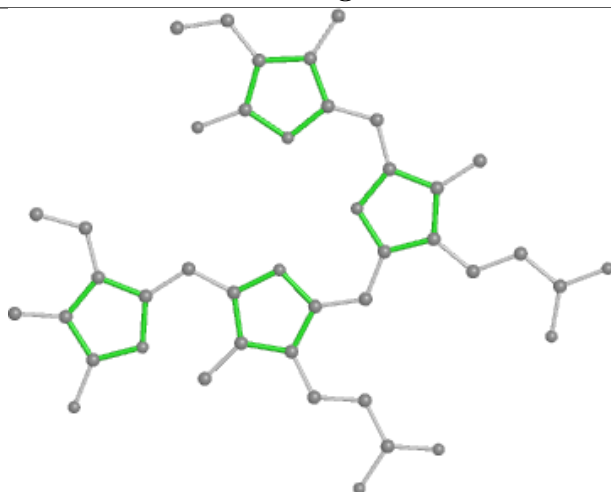
Bond lengths



Bond angles

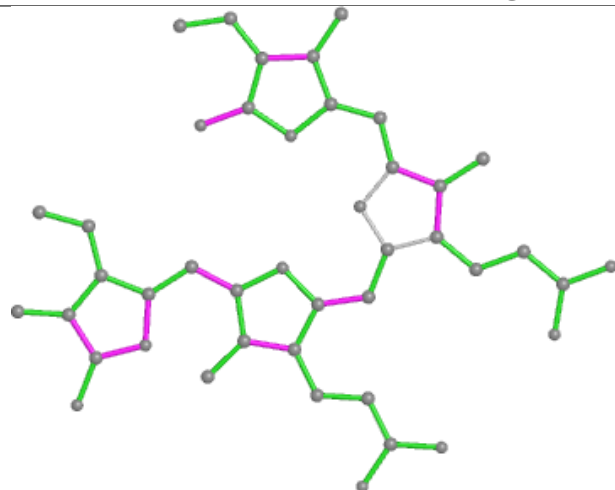


Torsions

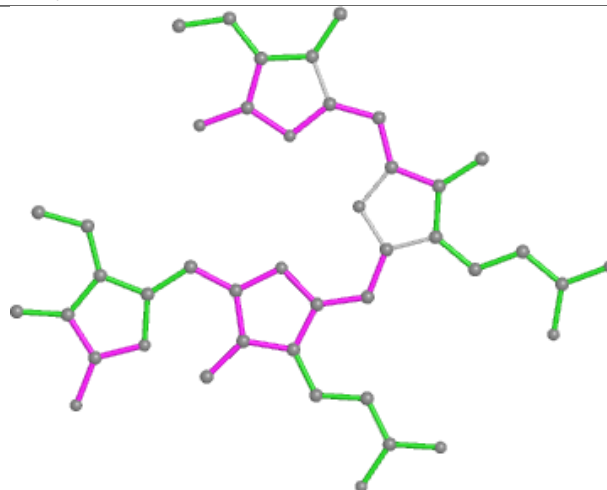


Rings

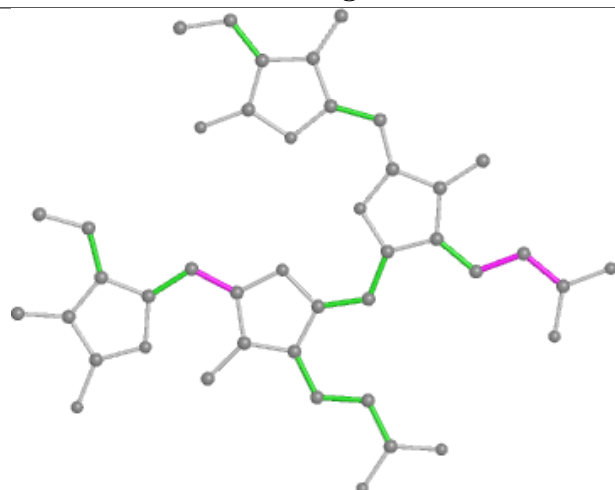
Ligand PEB QB 203



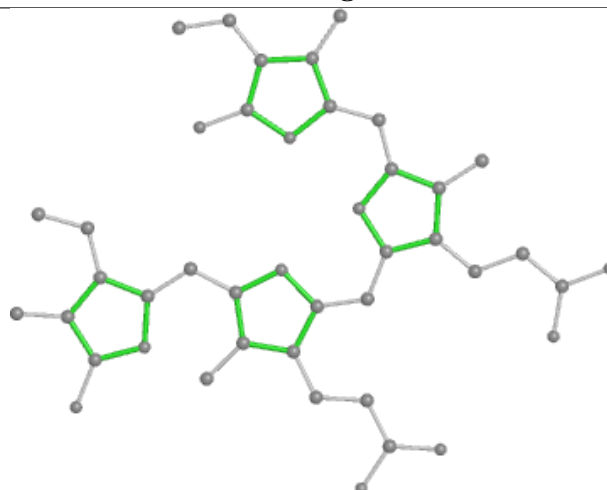
Bond lengths



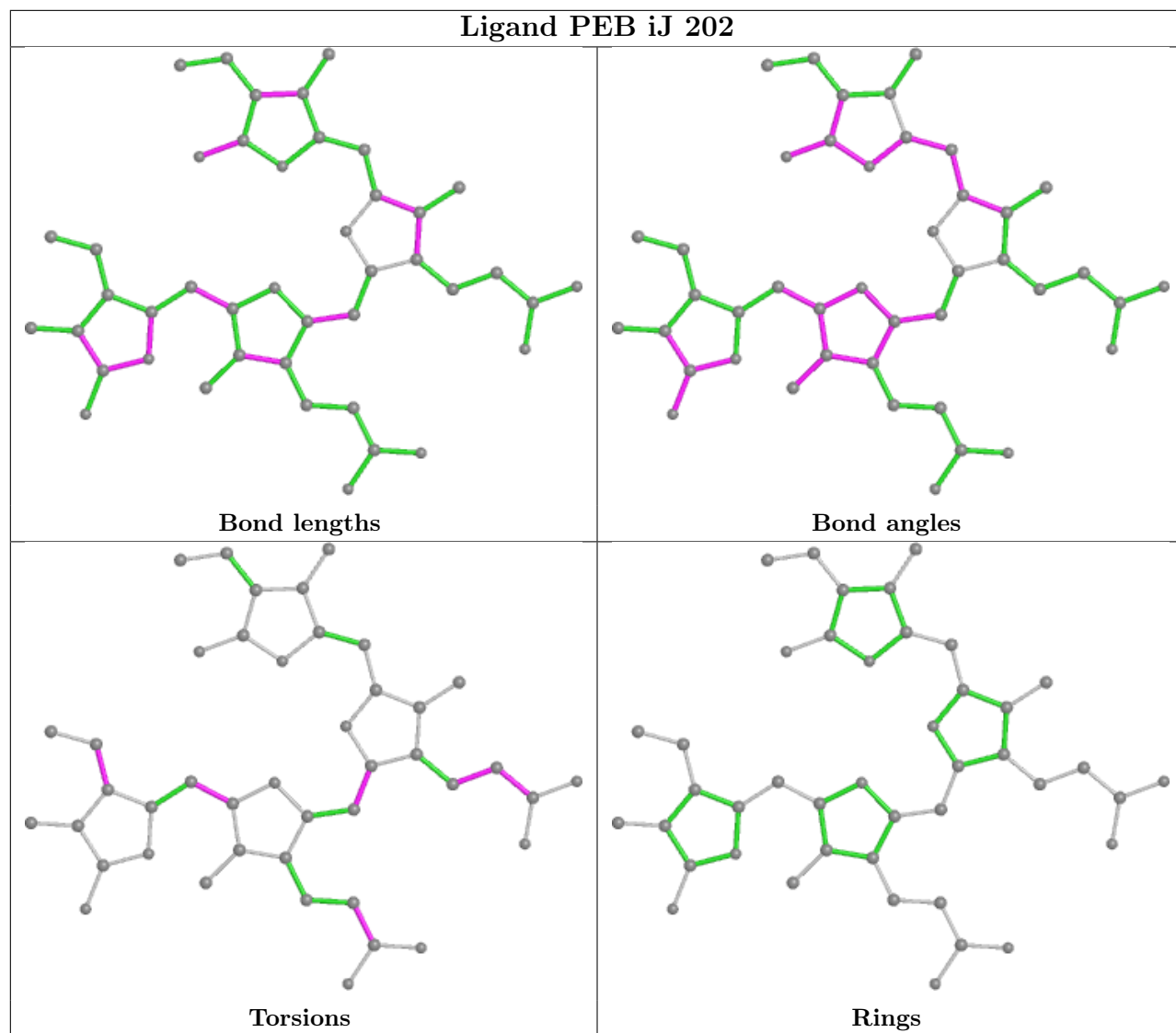
Bond angles



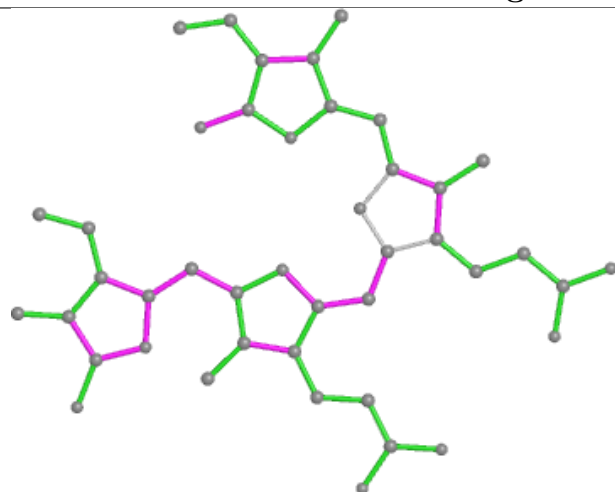
Torsions



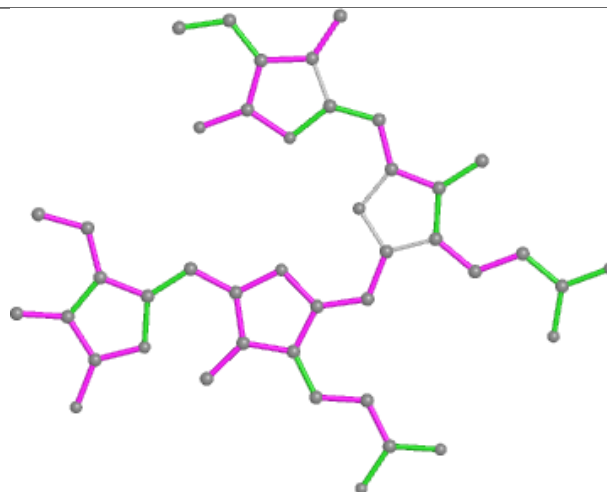
Rings



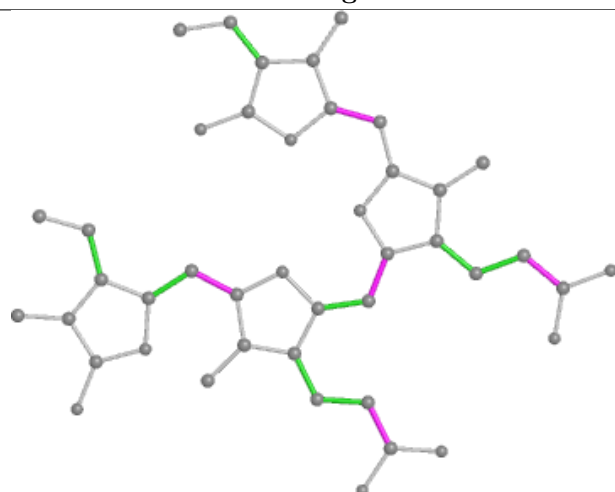
Ligand PEB JD 201



Bond lengths



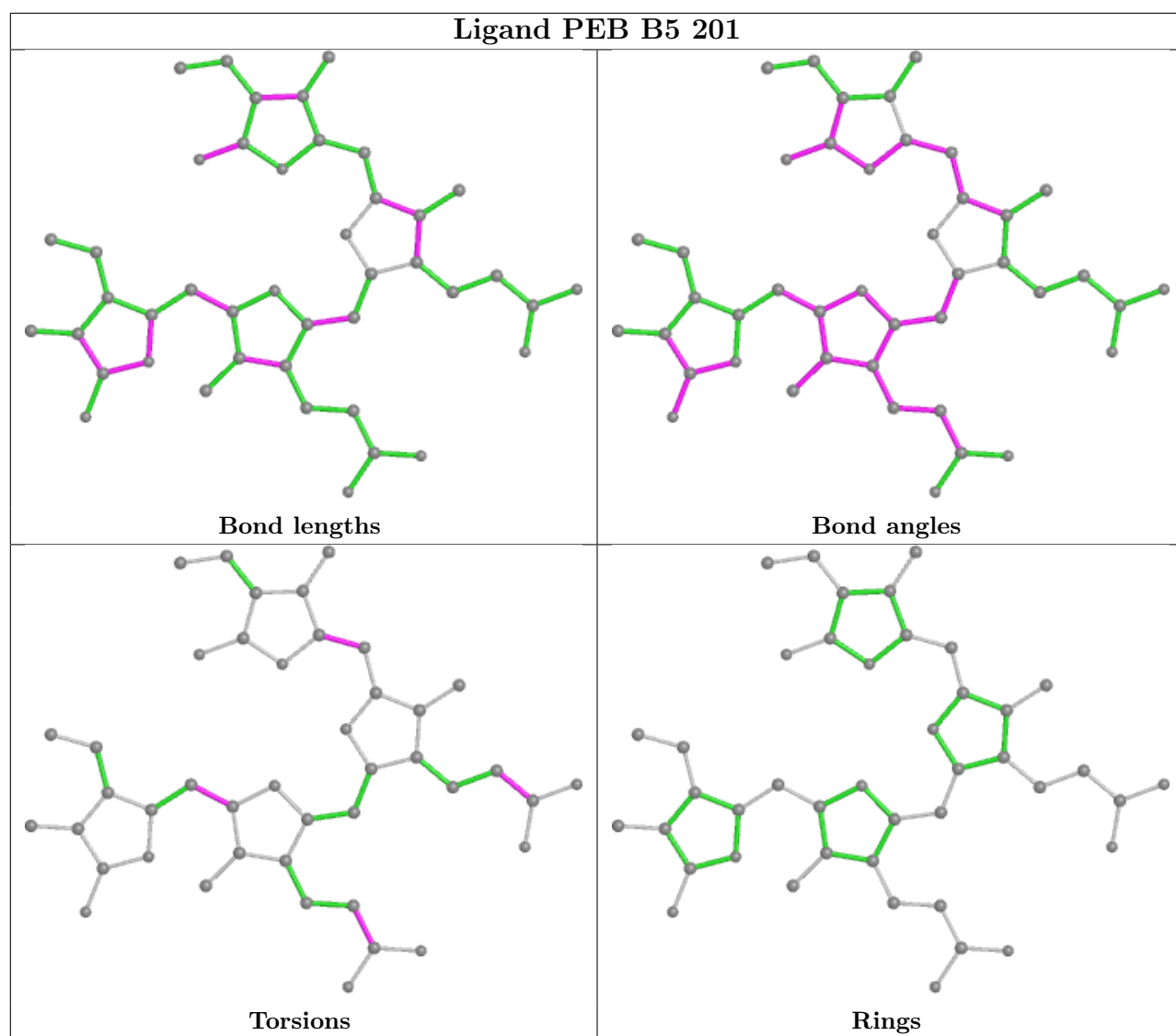
Bond angles



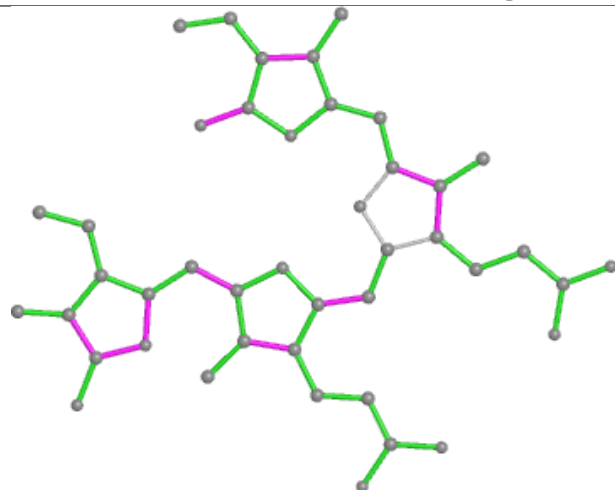
Torsions



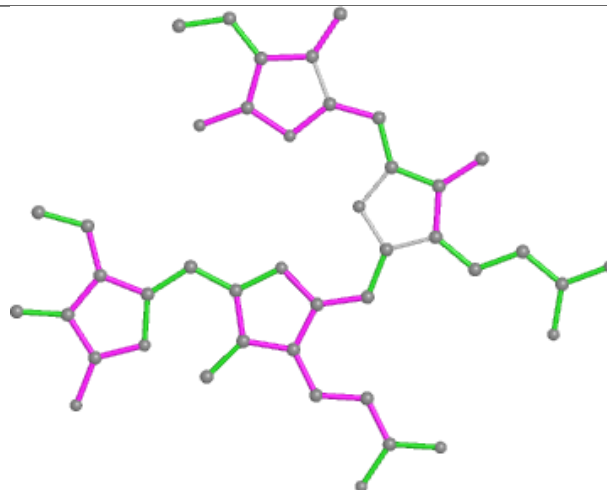
Rings



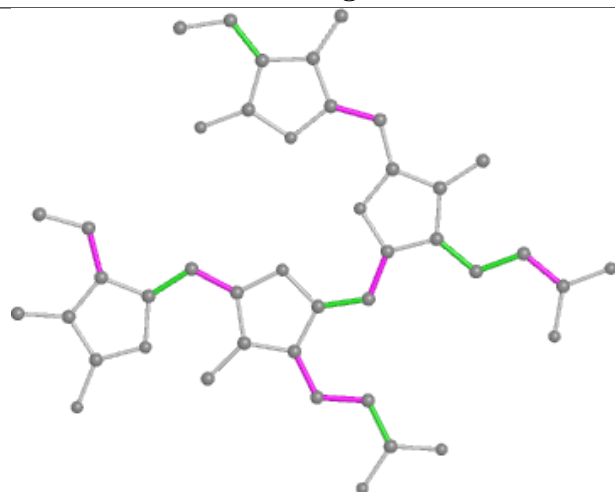
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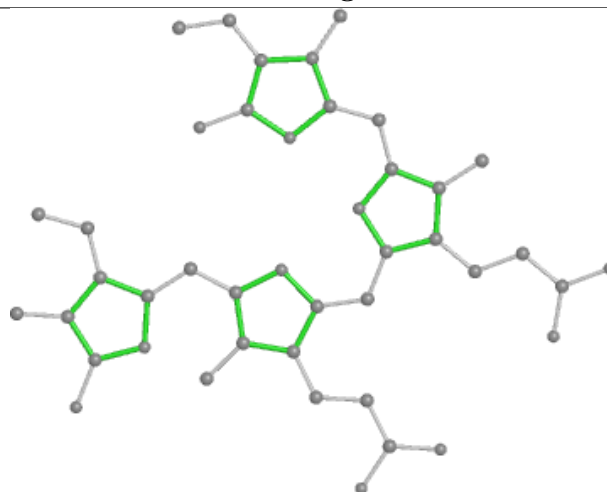
Bond lengths



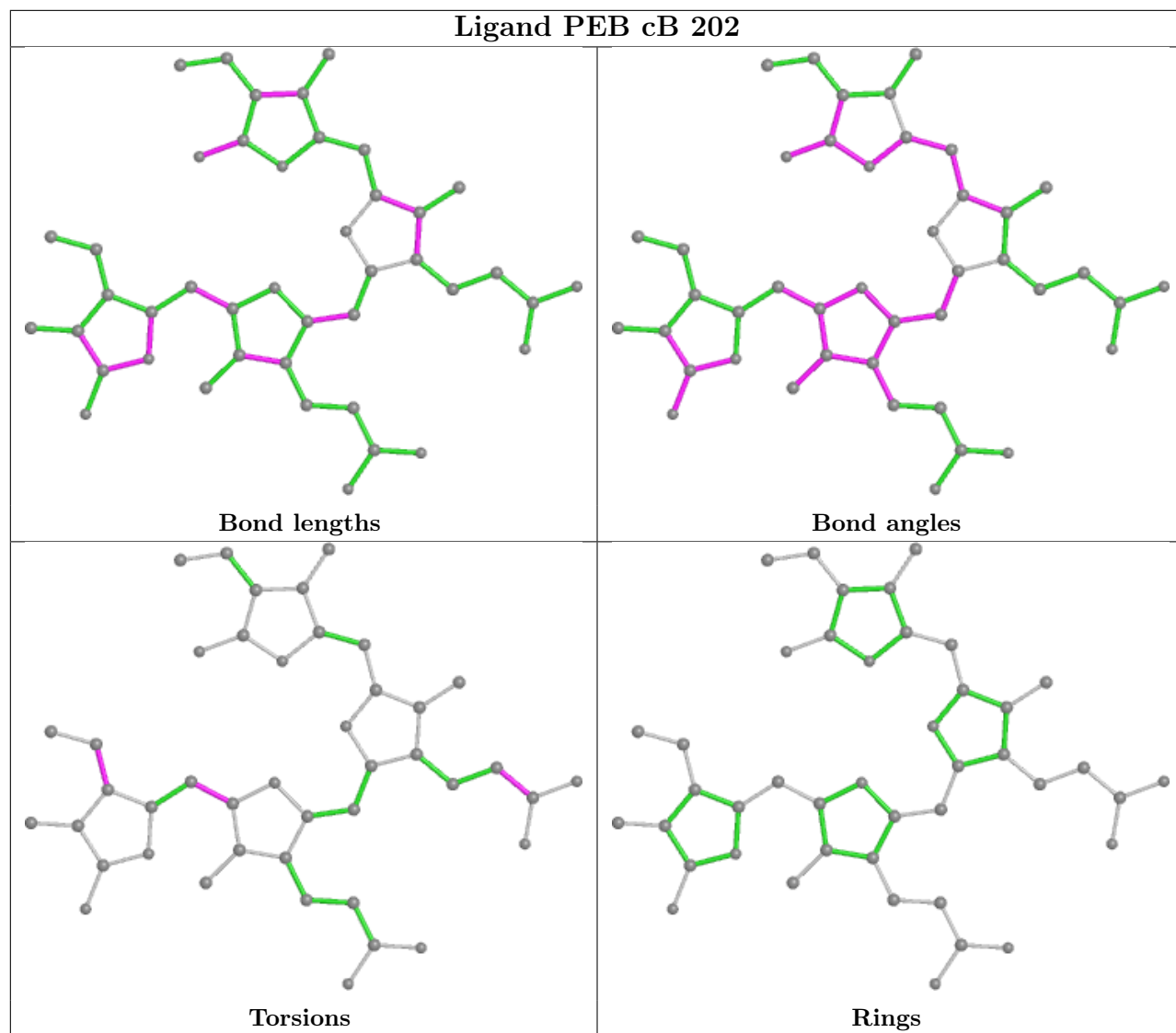
Bond angles



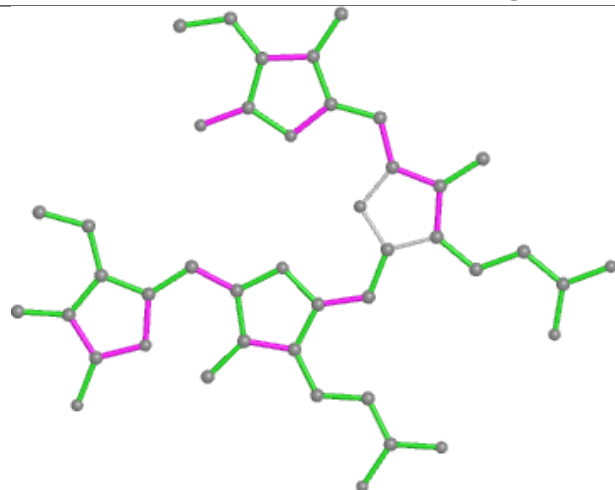
Torsions



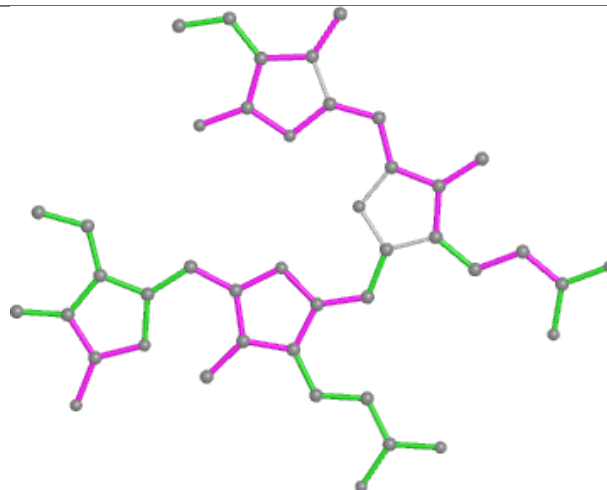
Rings



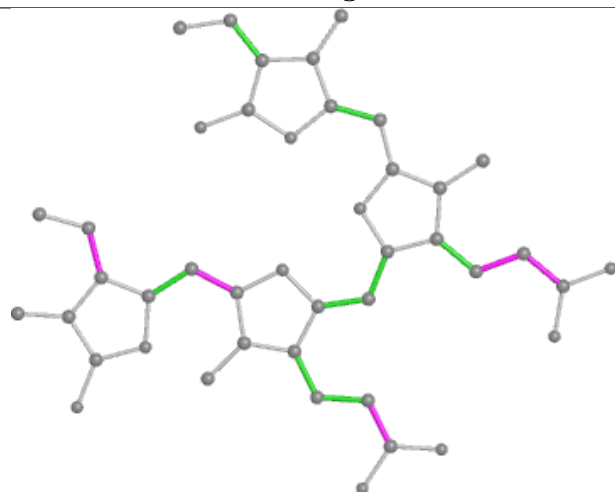
Ligand PEB FO 202



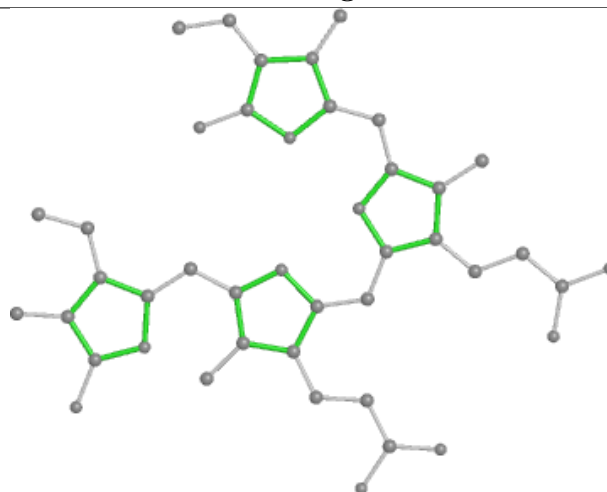
Bond lengths



Bond angles

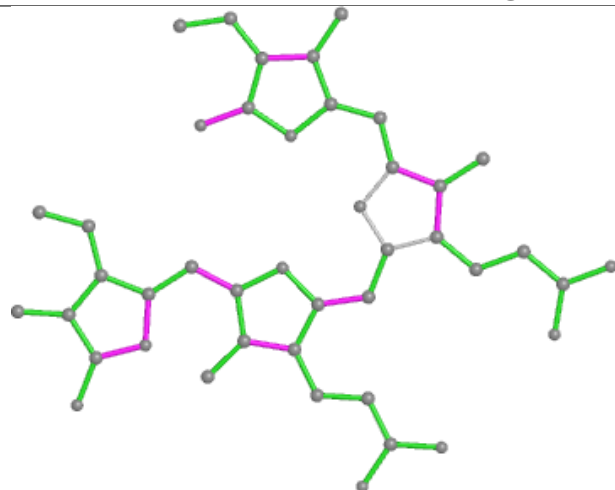


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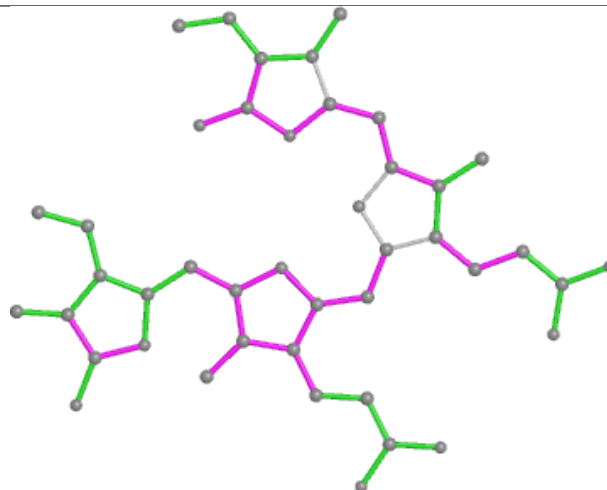


Rings

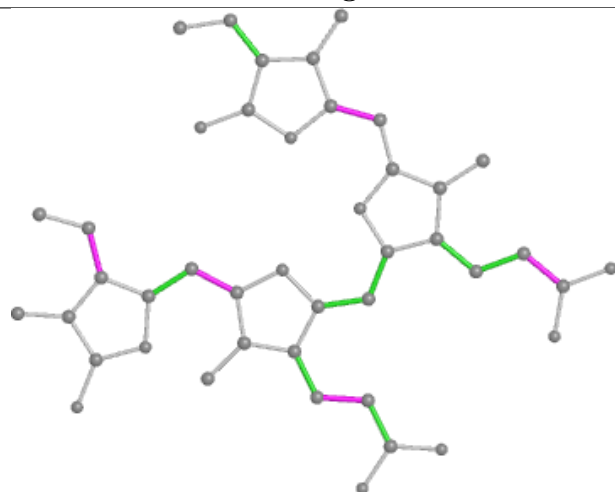
Ligand PEB ML 201



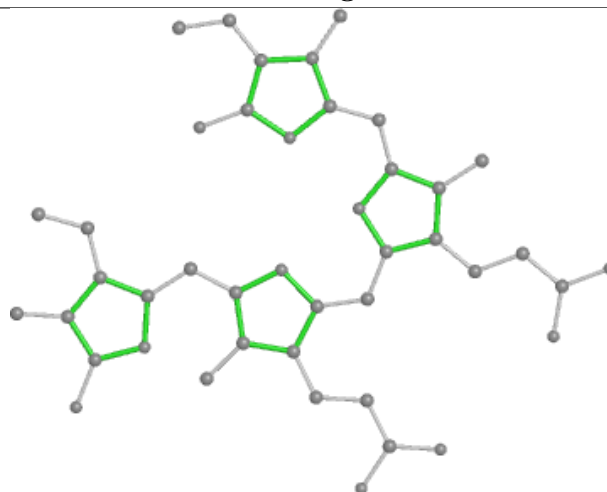
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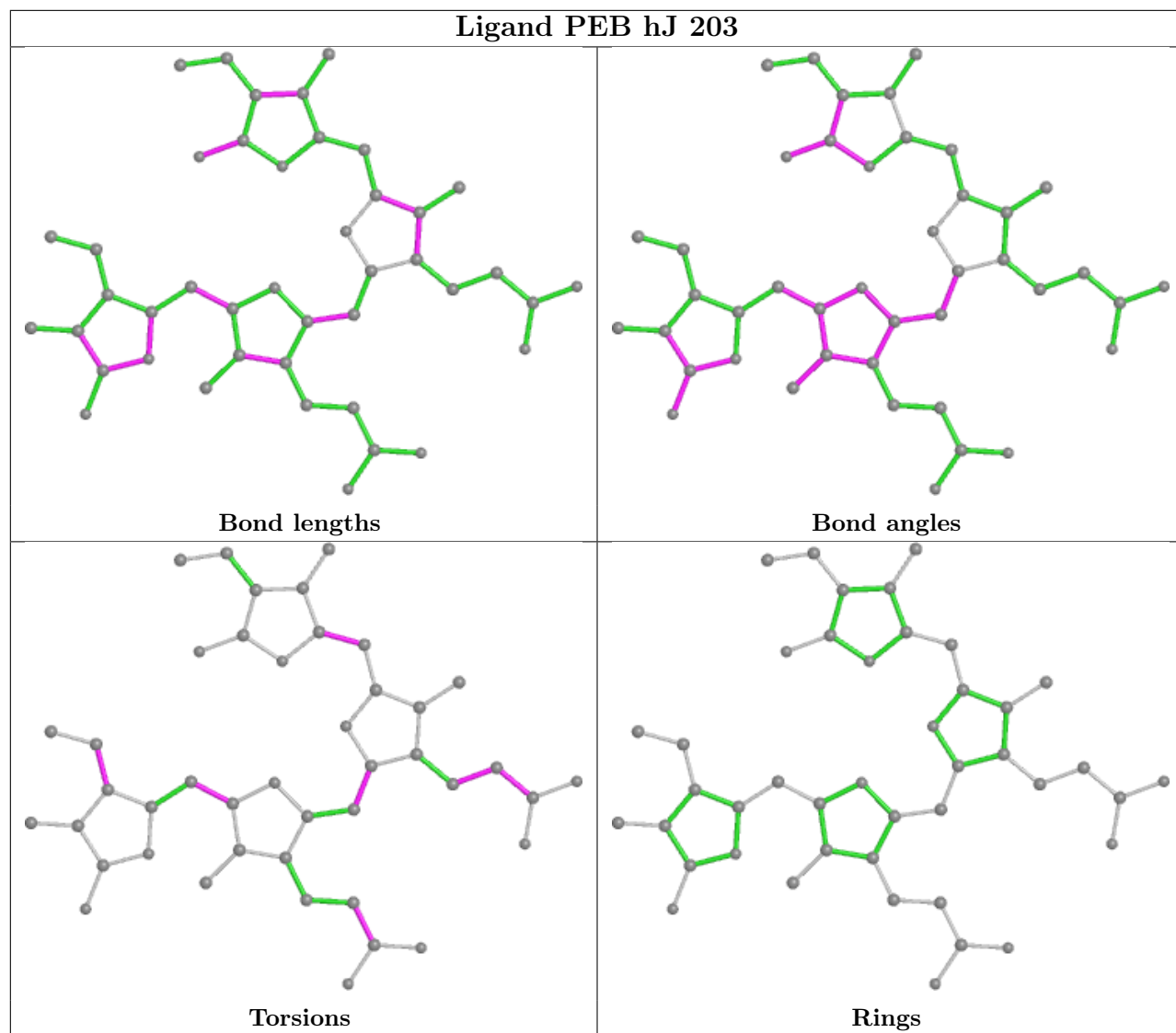
Bond angles



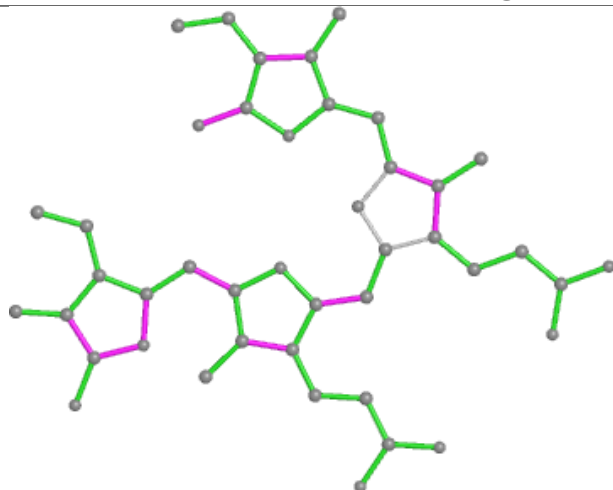
Torsions



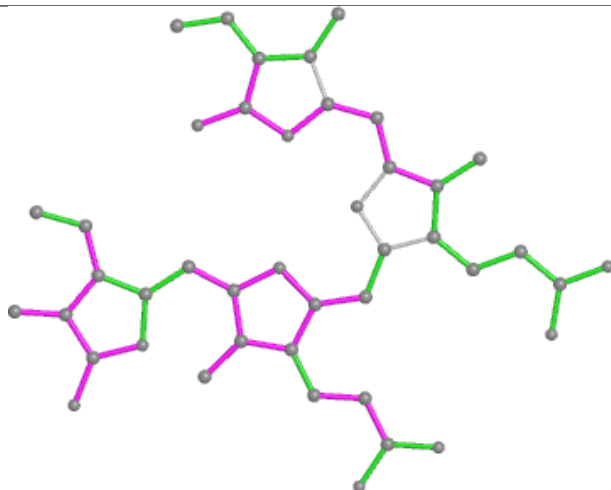
Rings



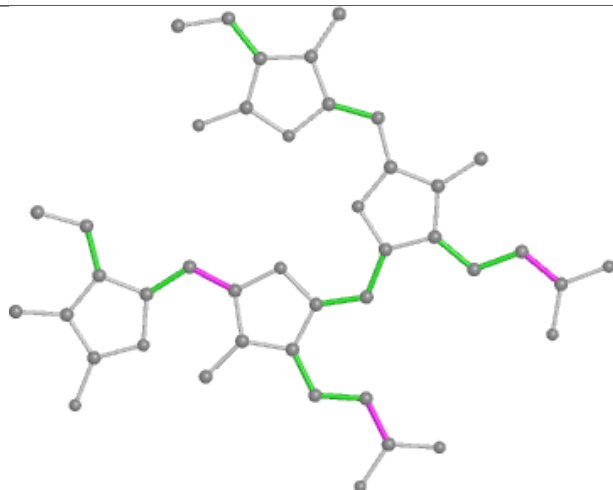
Ligand PEB WF 201



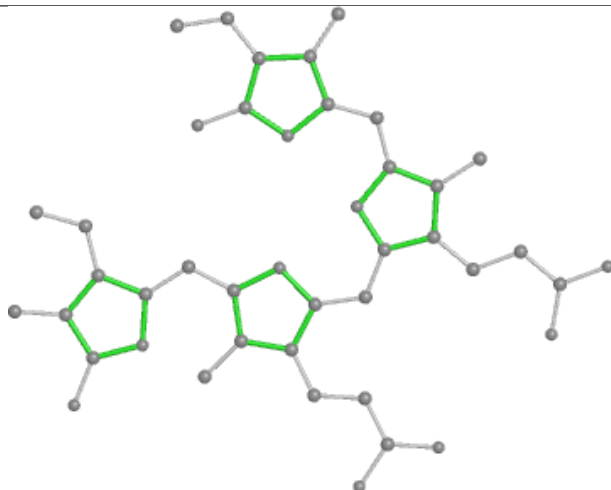
Bond lengths



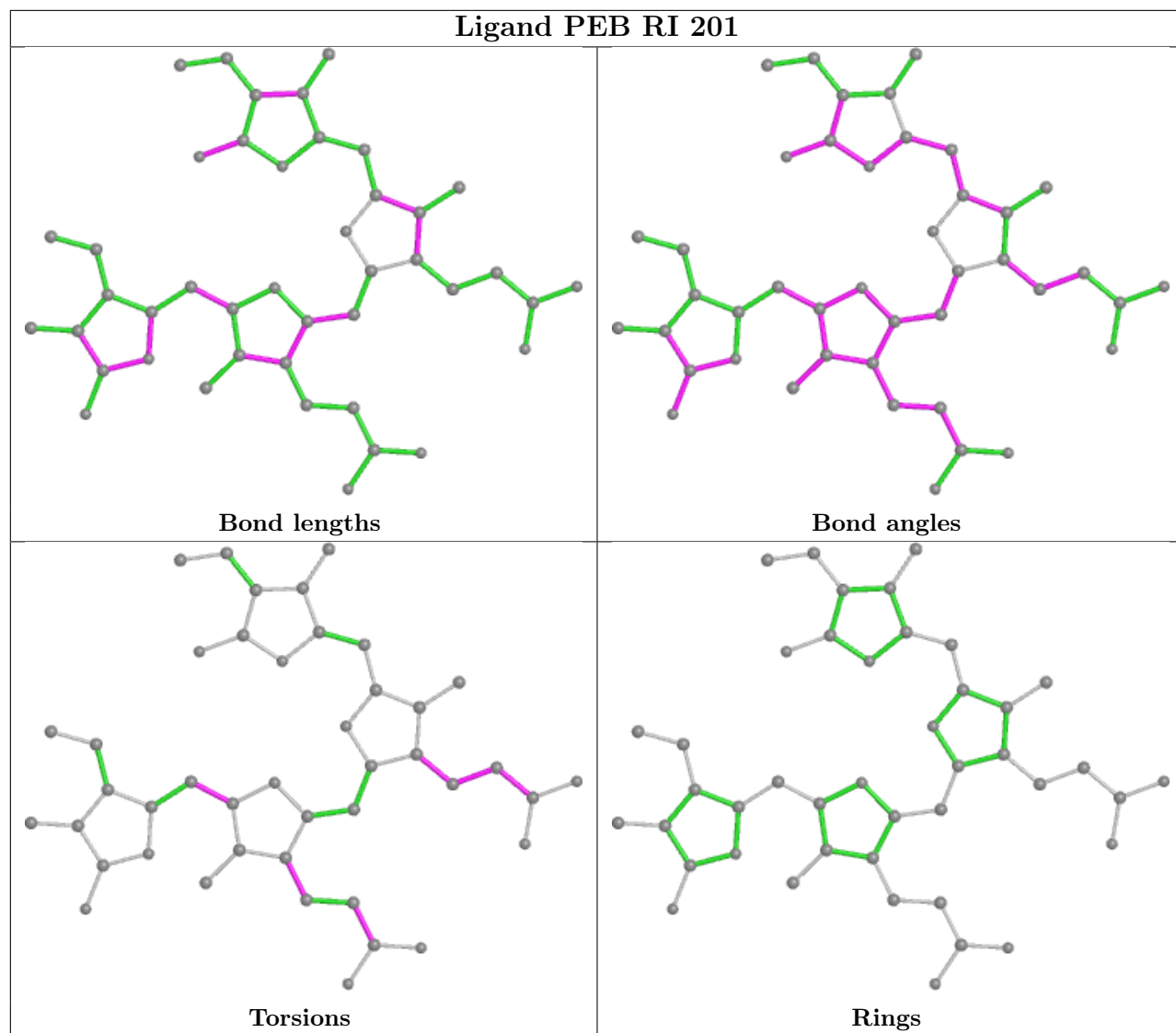
Bond angles



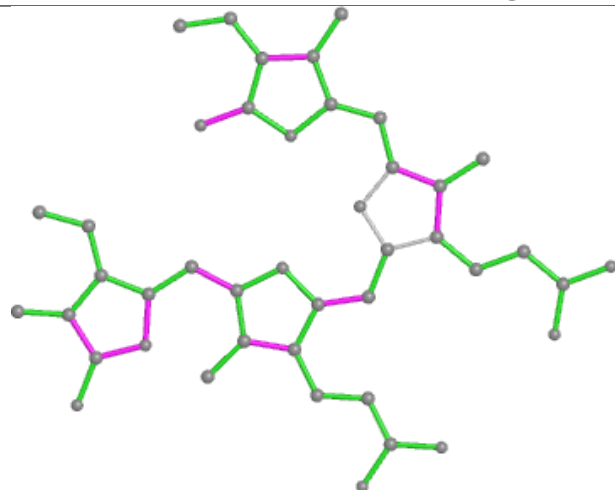
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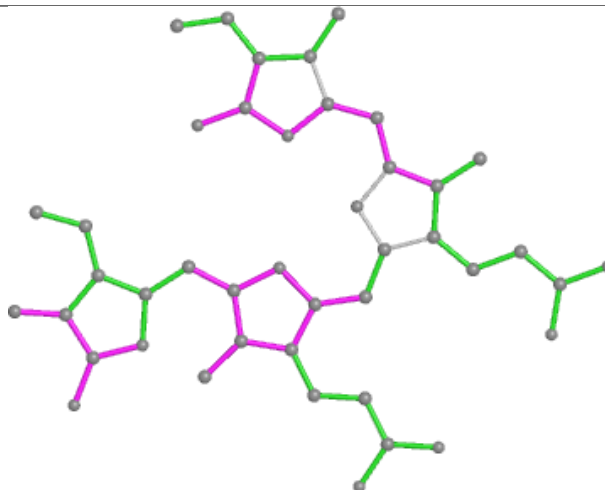
Rings



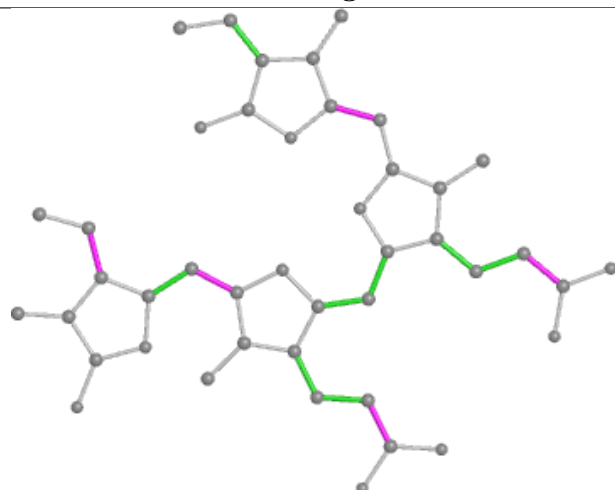
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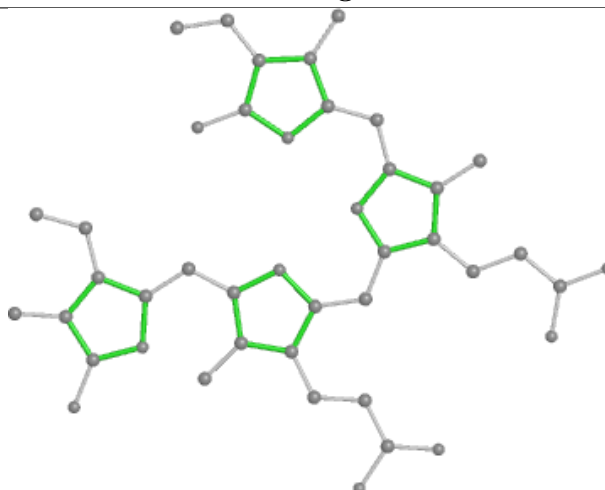
Bond lengths



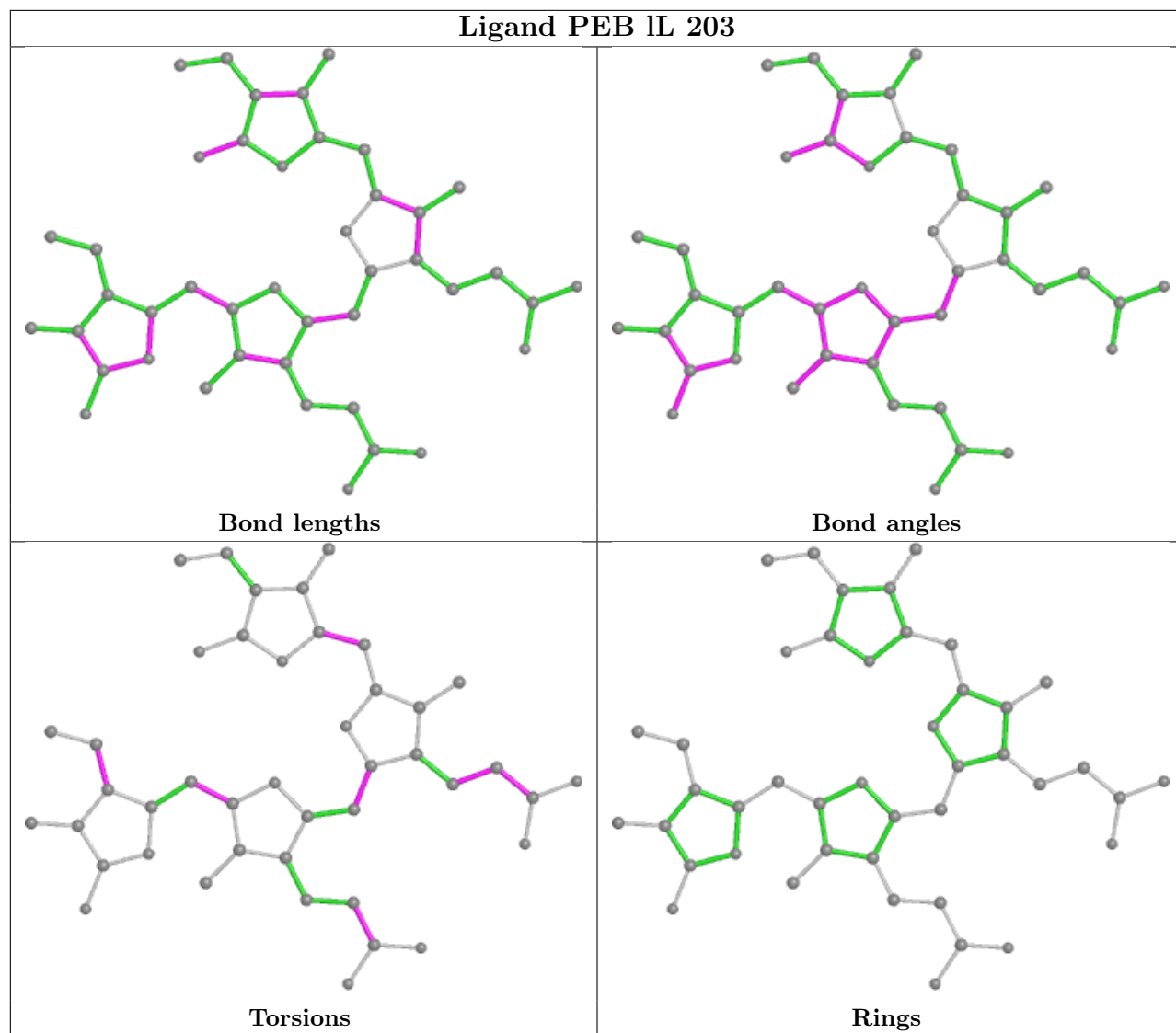
Bond angles



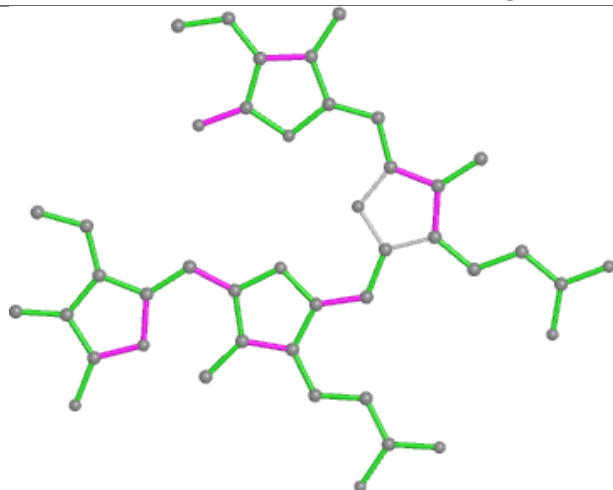
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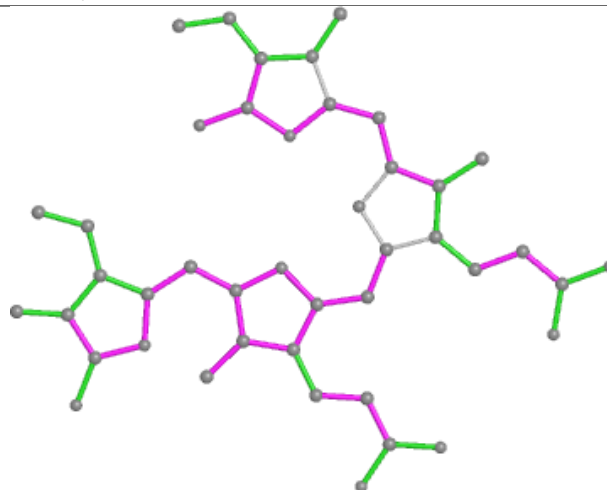
Rings



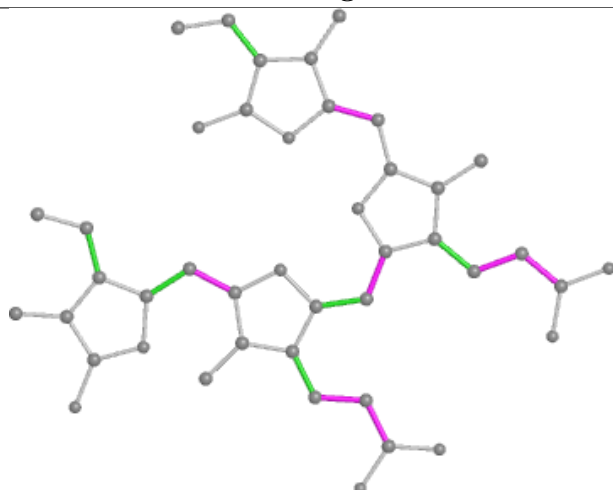
Ligand PEB BQ 203



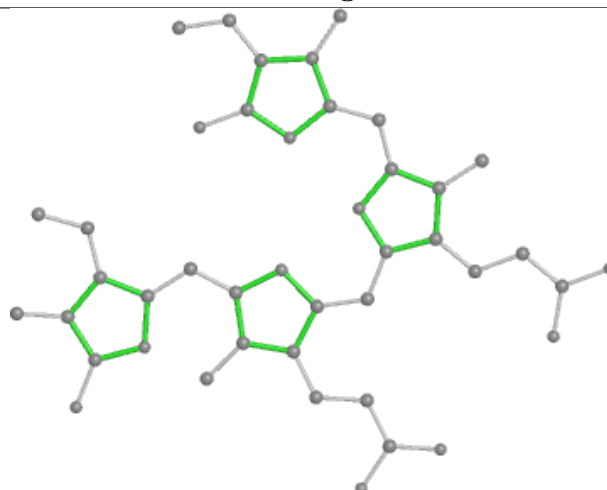
Bond lengths



Bond angles

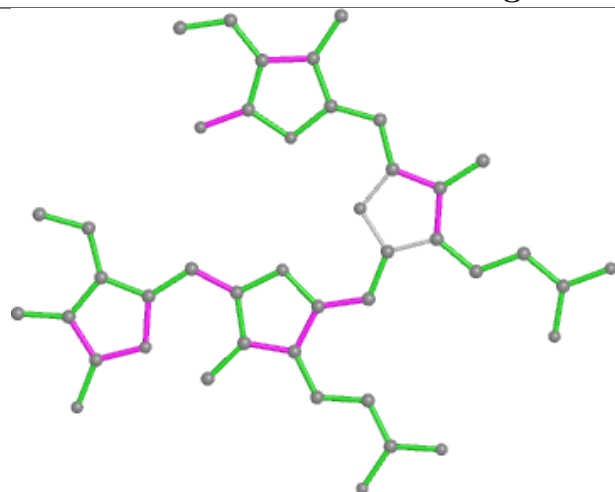


Torsions

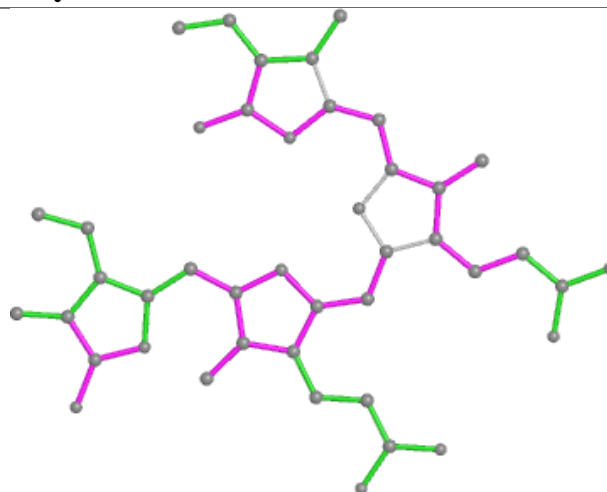


Rings

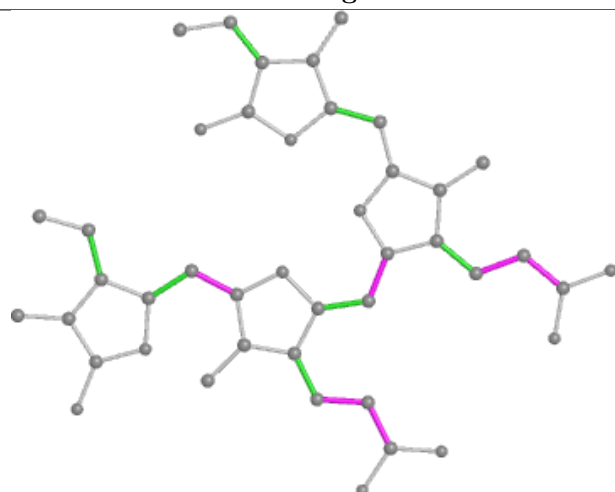
Ligand PEB QB 204



Bond lengths



Bond angles

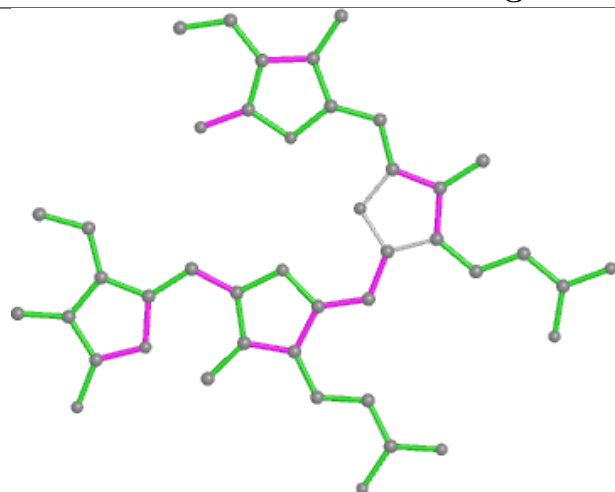


Torsions

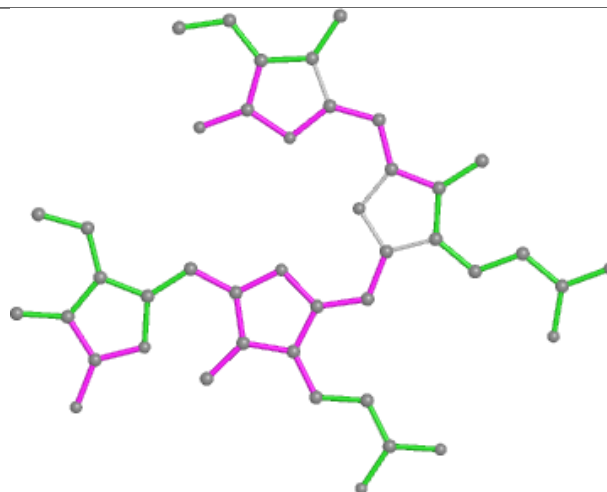


Rings

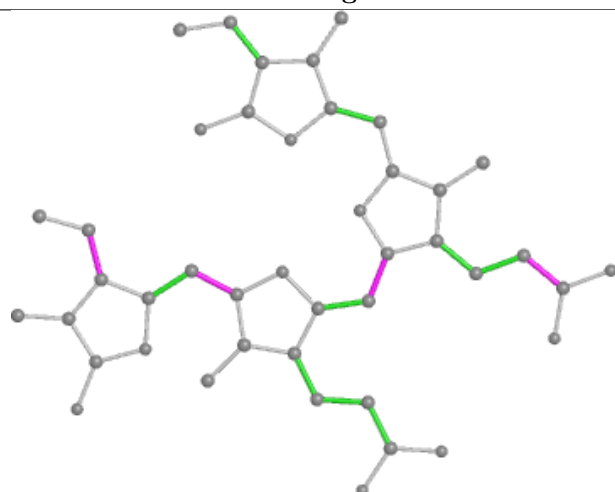
Ligand PEB BE 202



Bond lengths



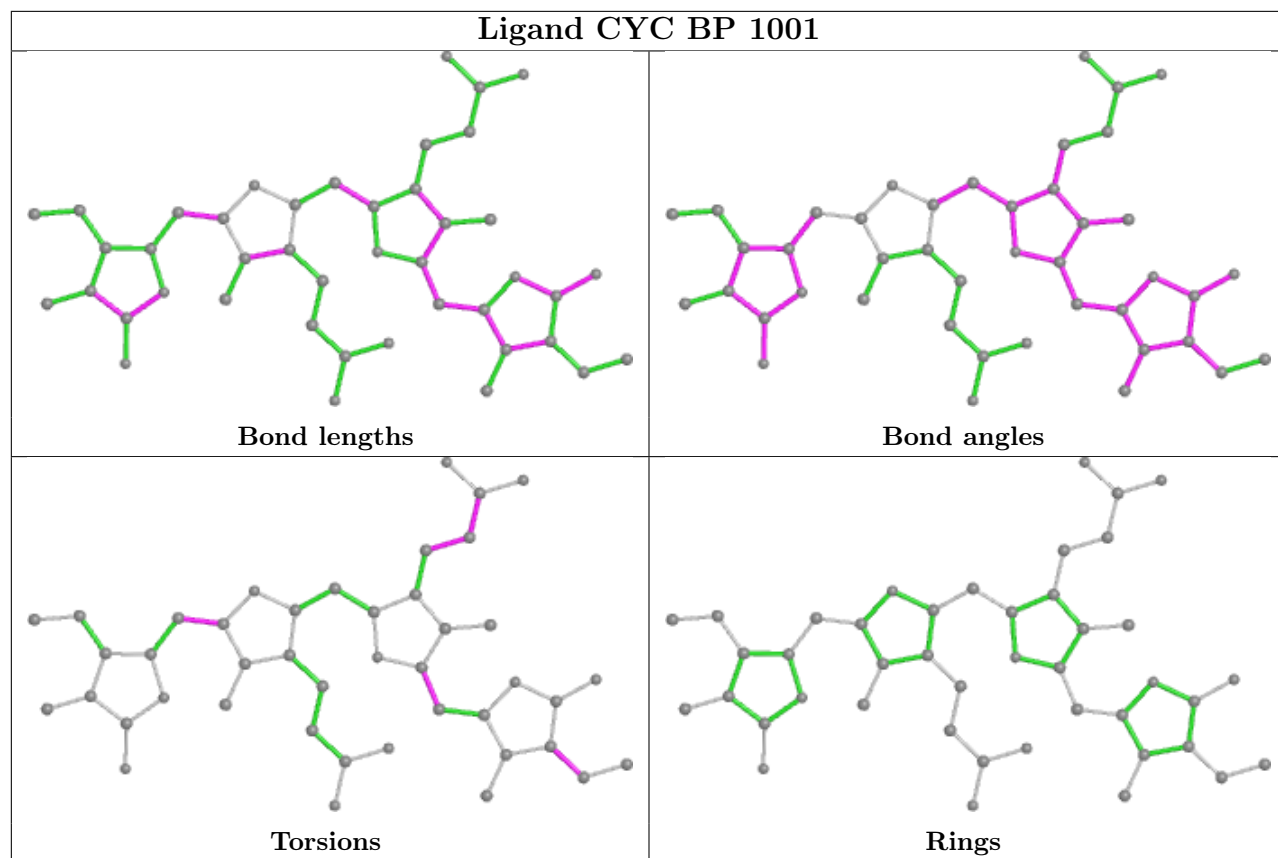
Bond angles



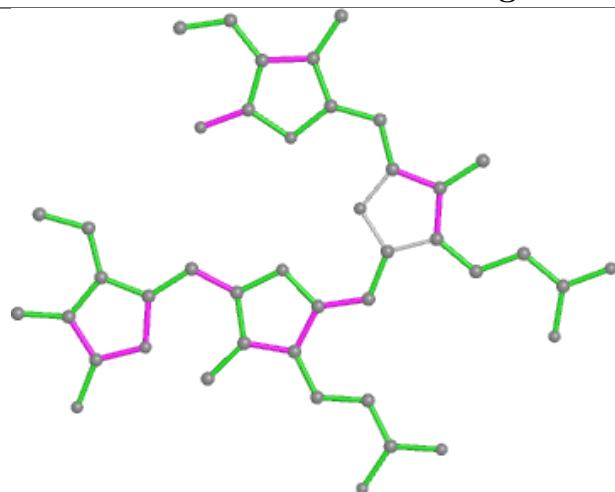
Torsions



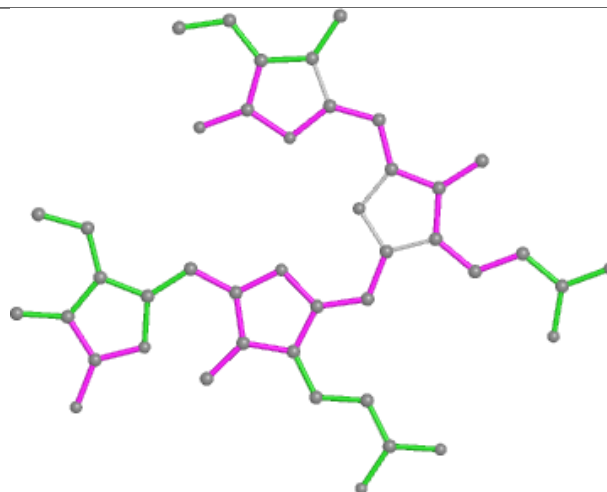
Rings



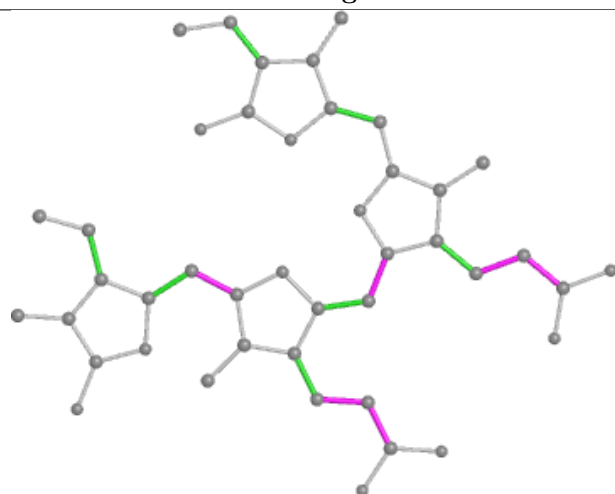
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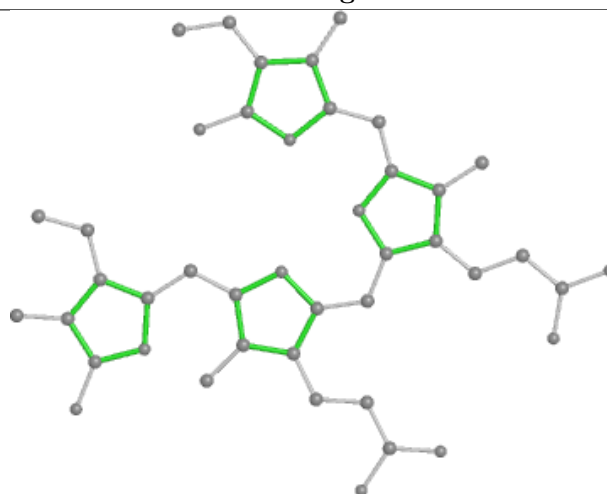
Bond lengths



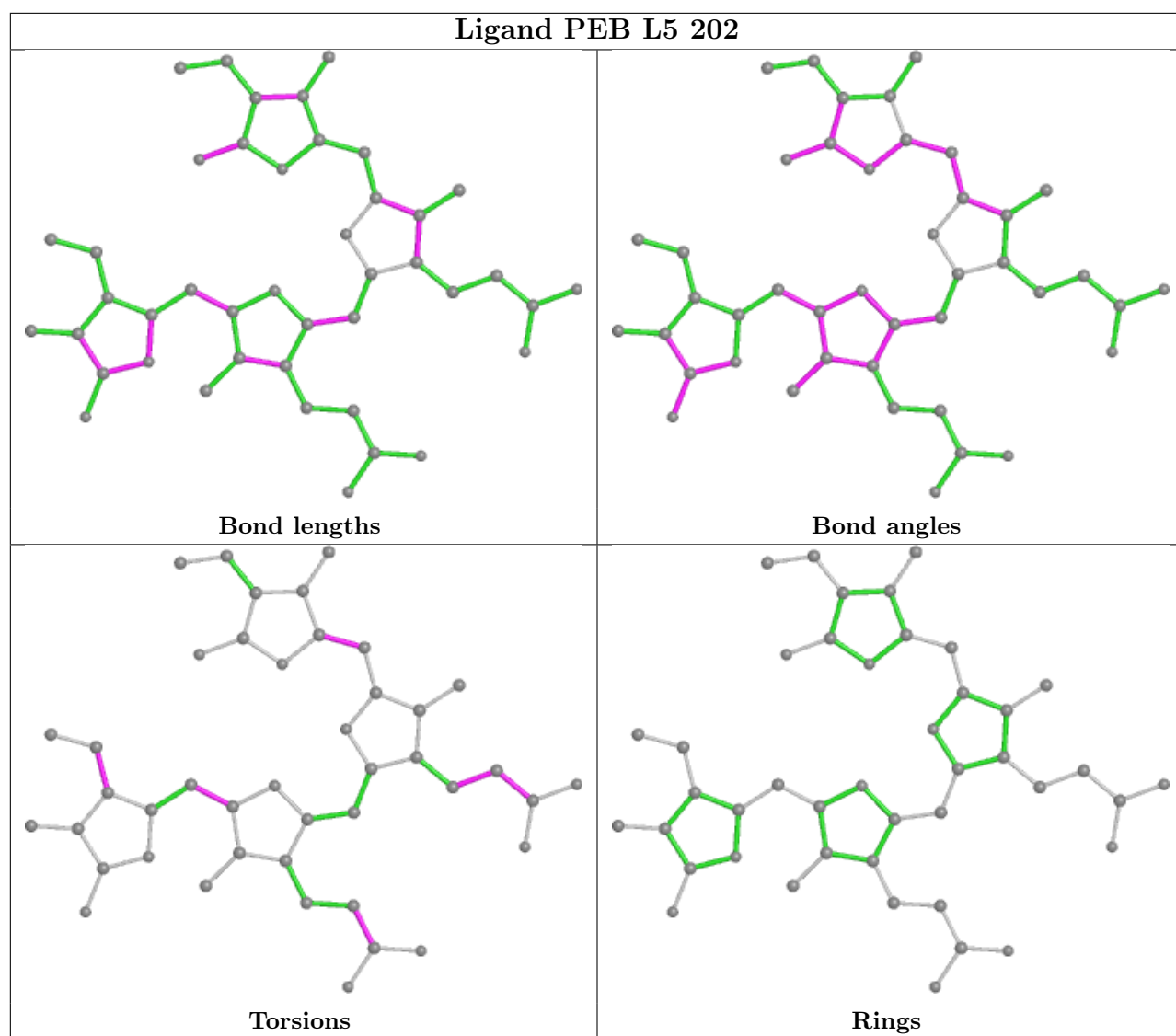
Bond angles

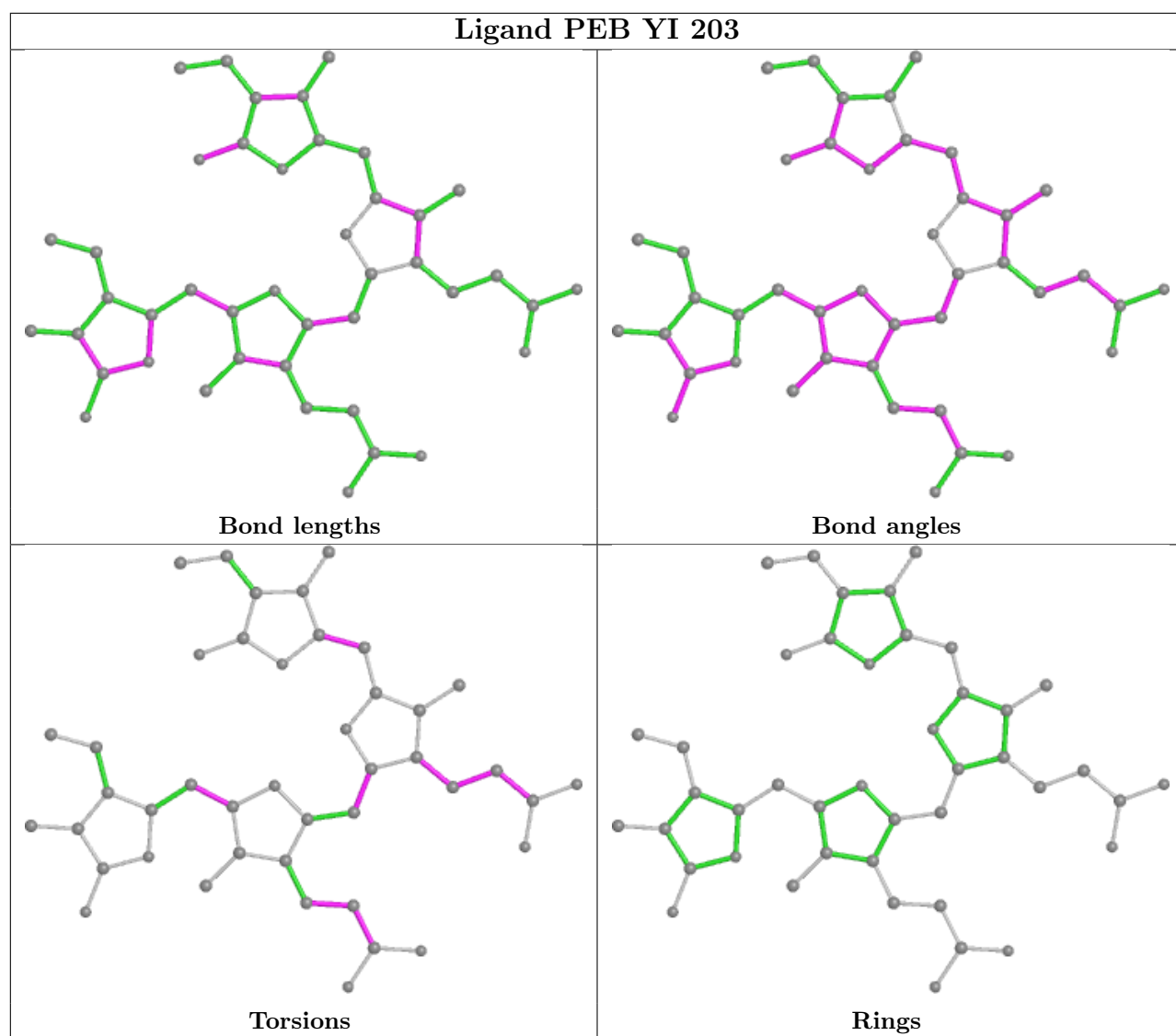


Torsions

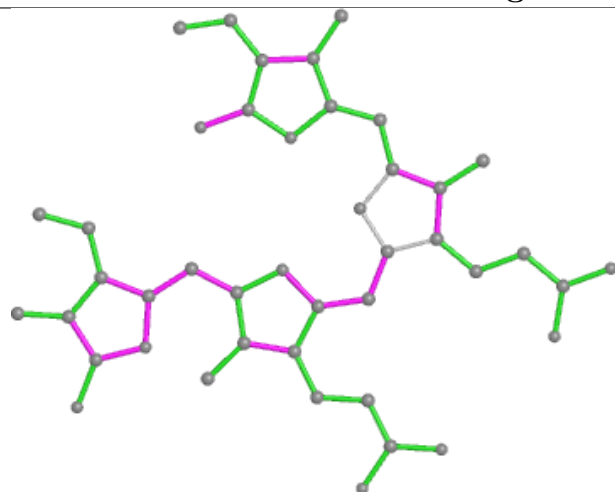


Rings

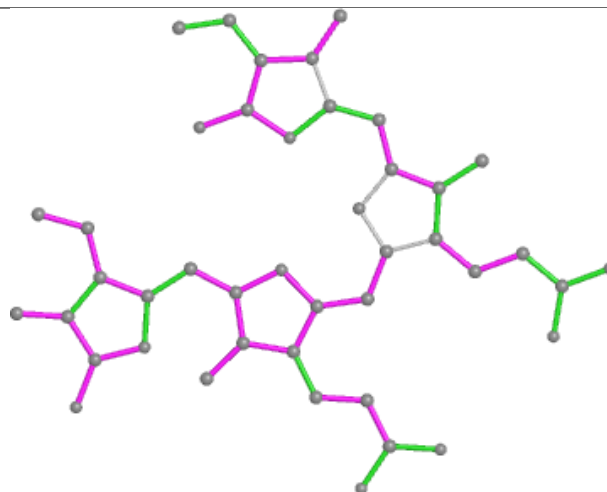




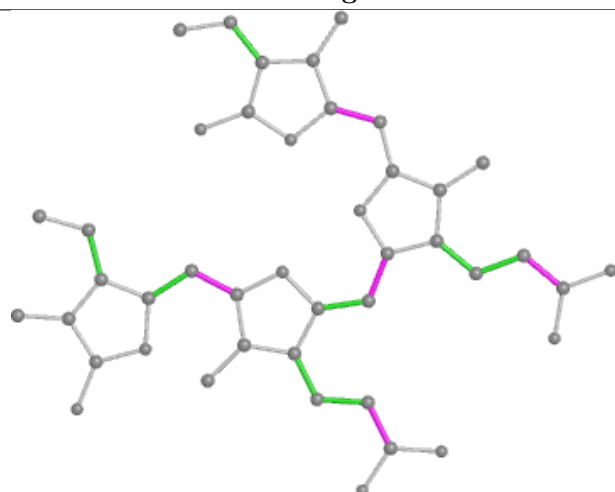
Ligand PEB H4 201



Bond lengths



Bond angles

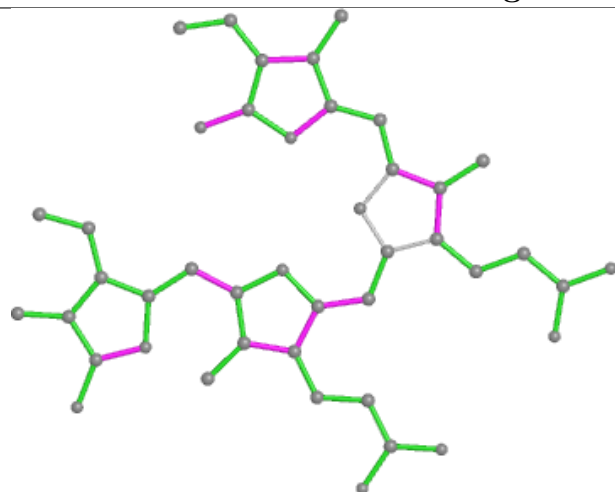


Torsions

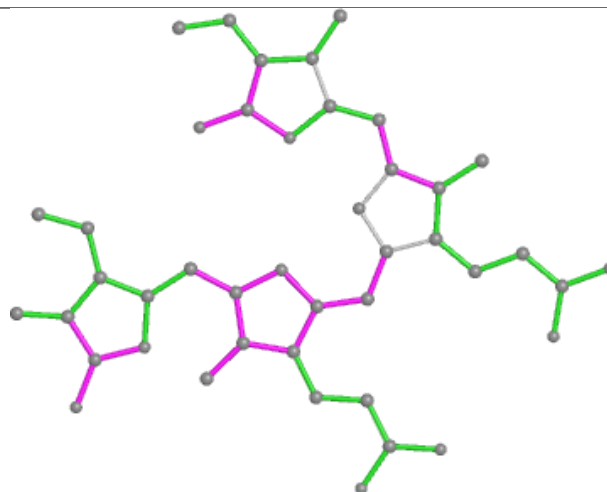


Rings

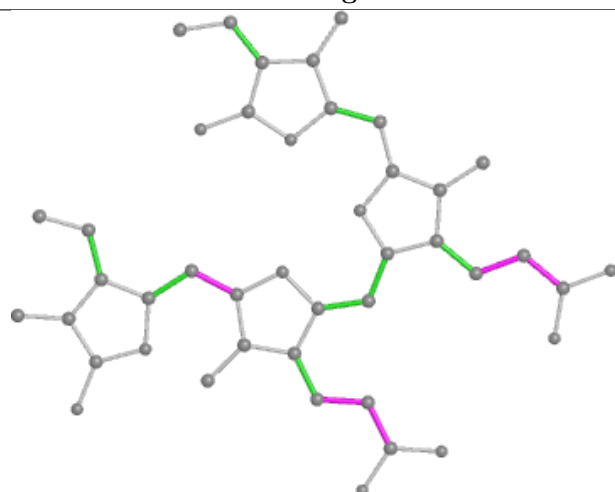
Ligand PEB KC 203



Bond lengths



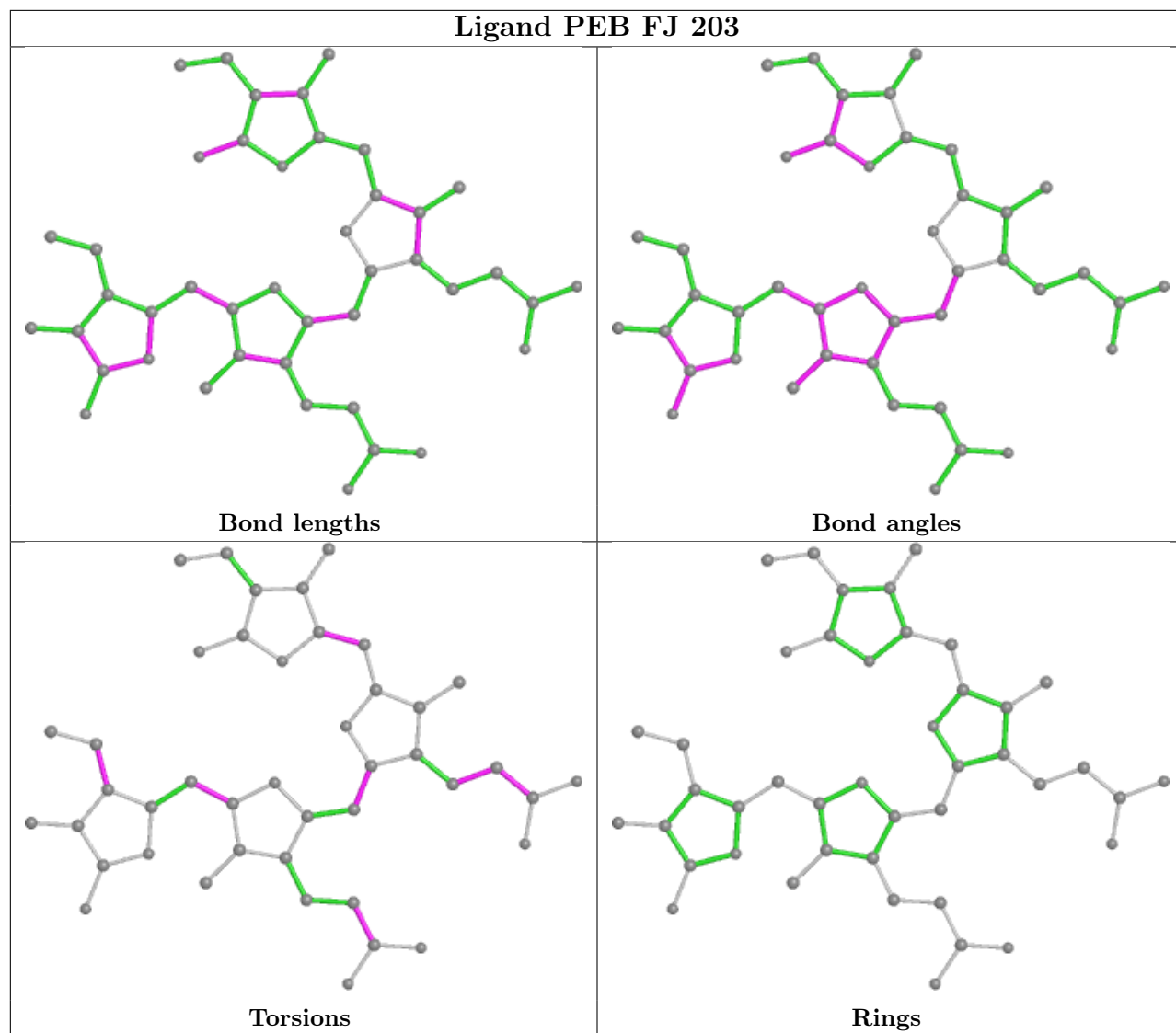
Bond angles



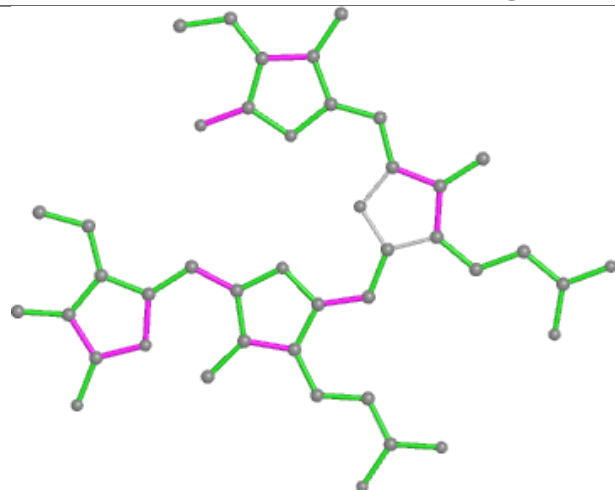
Torsions



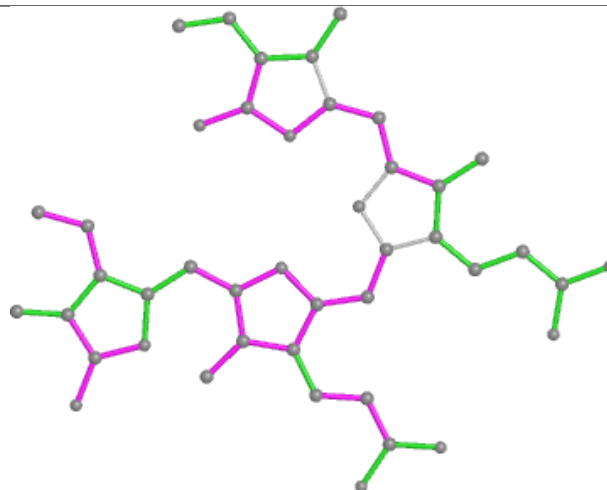
Rings



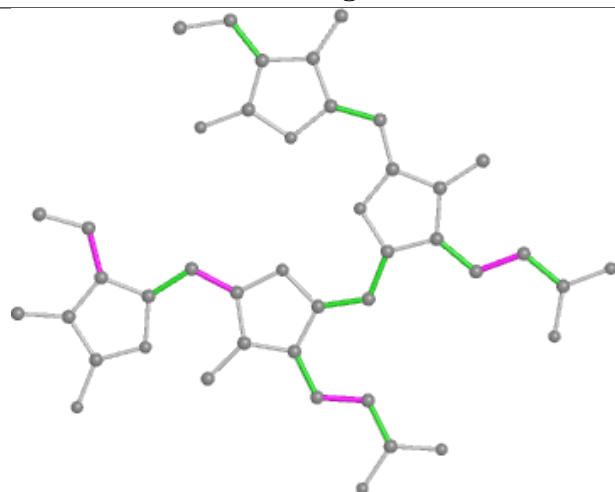
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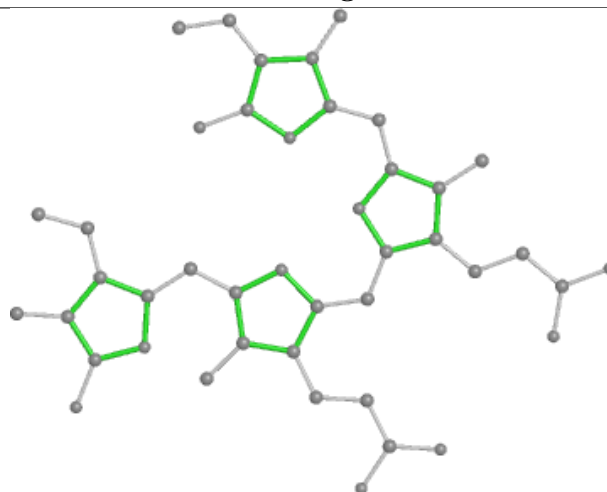
Bond lengths



Bond angles

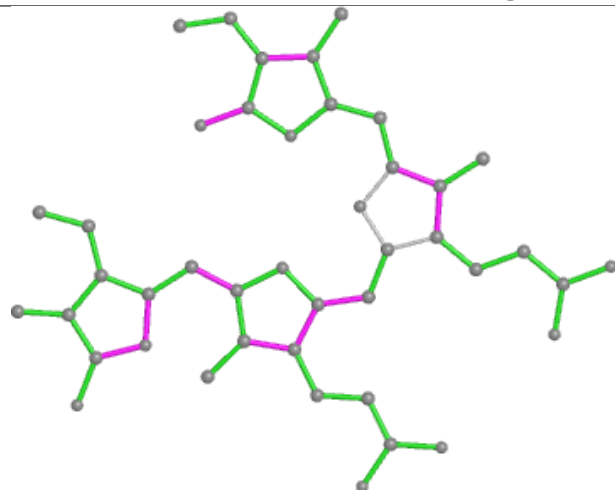


Torsions

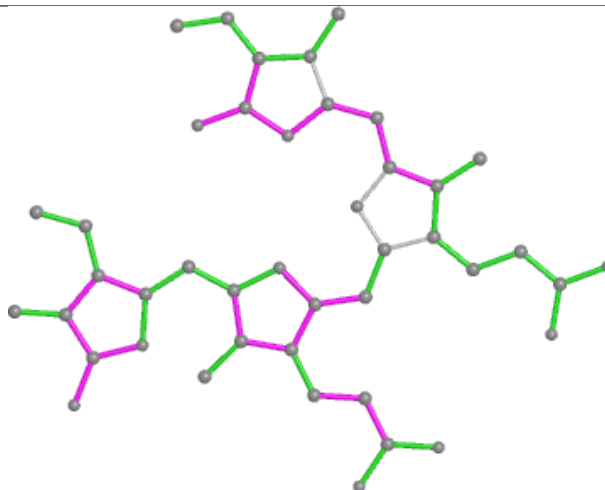


Rings

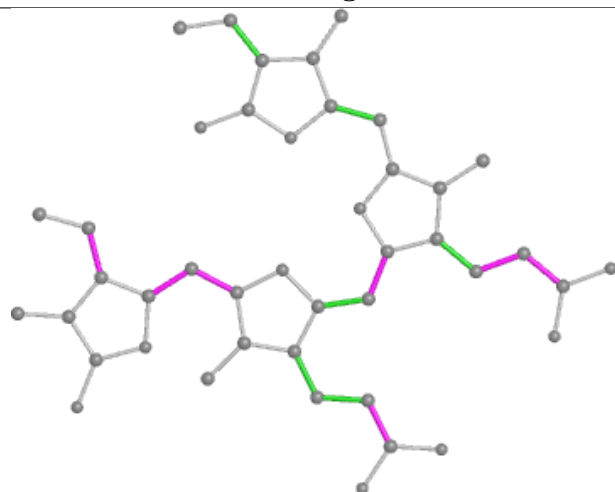
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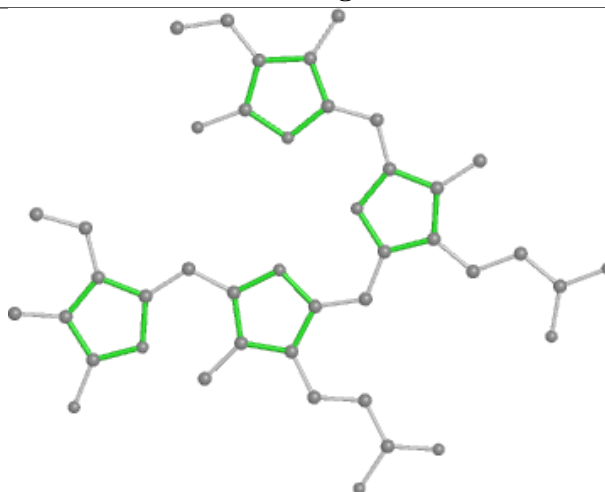
Bond lengths



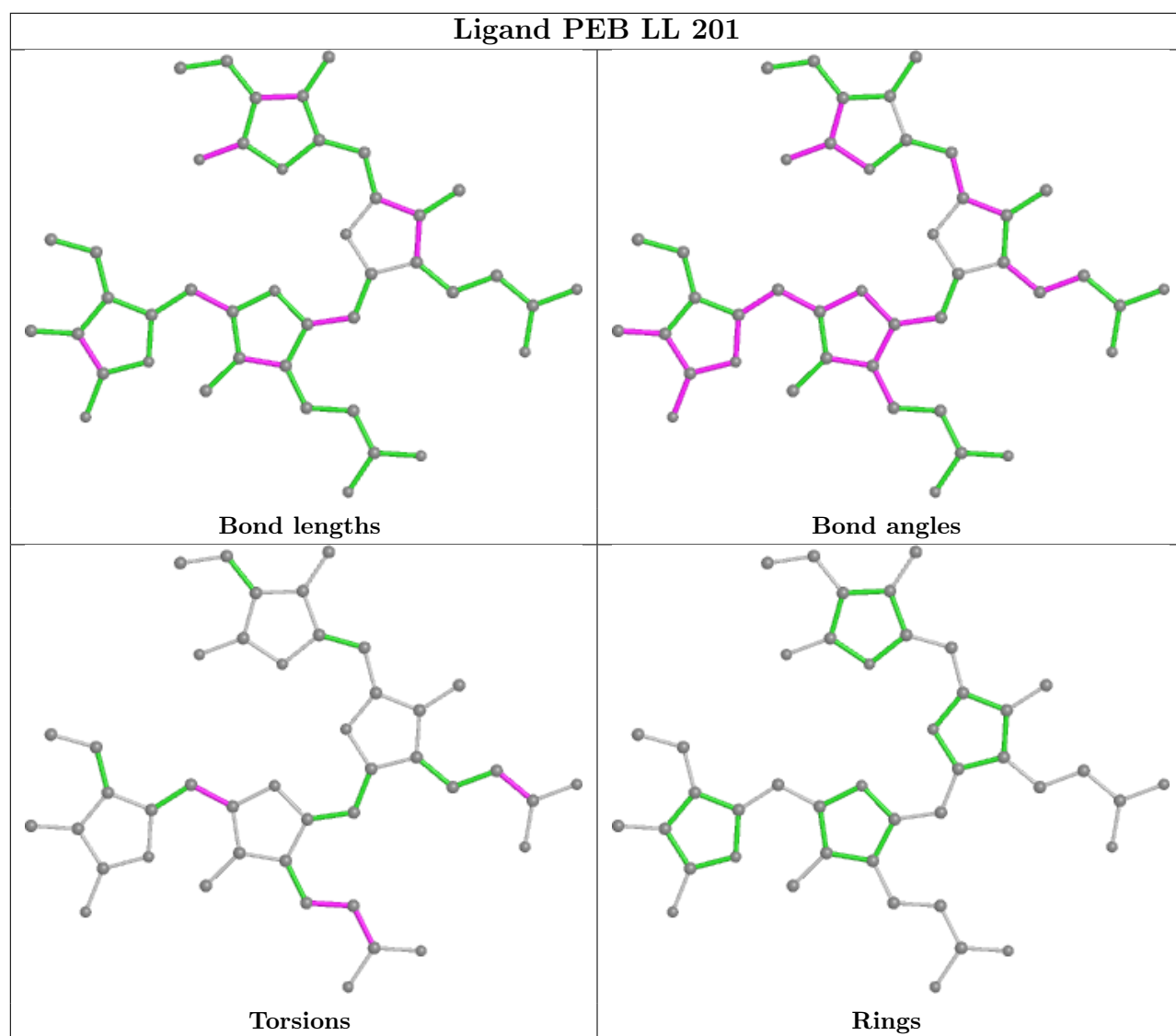
Bond angles

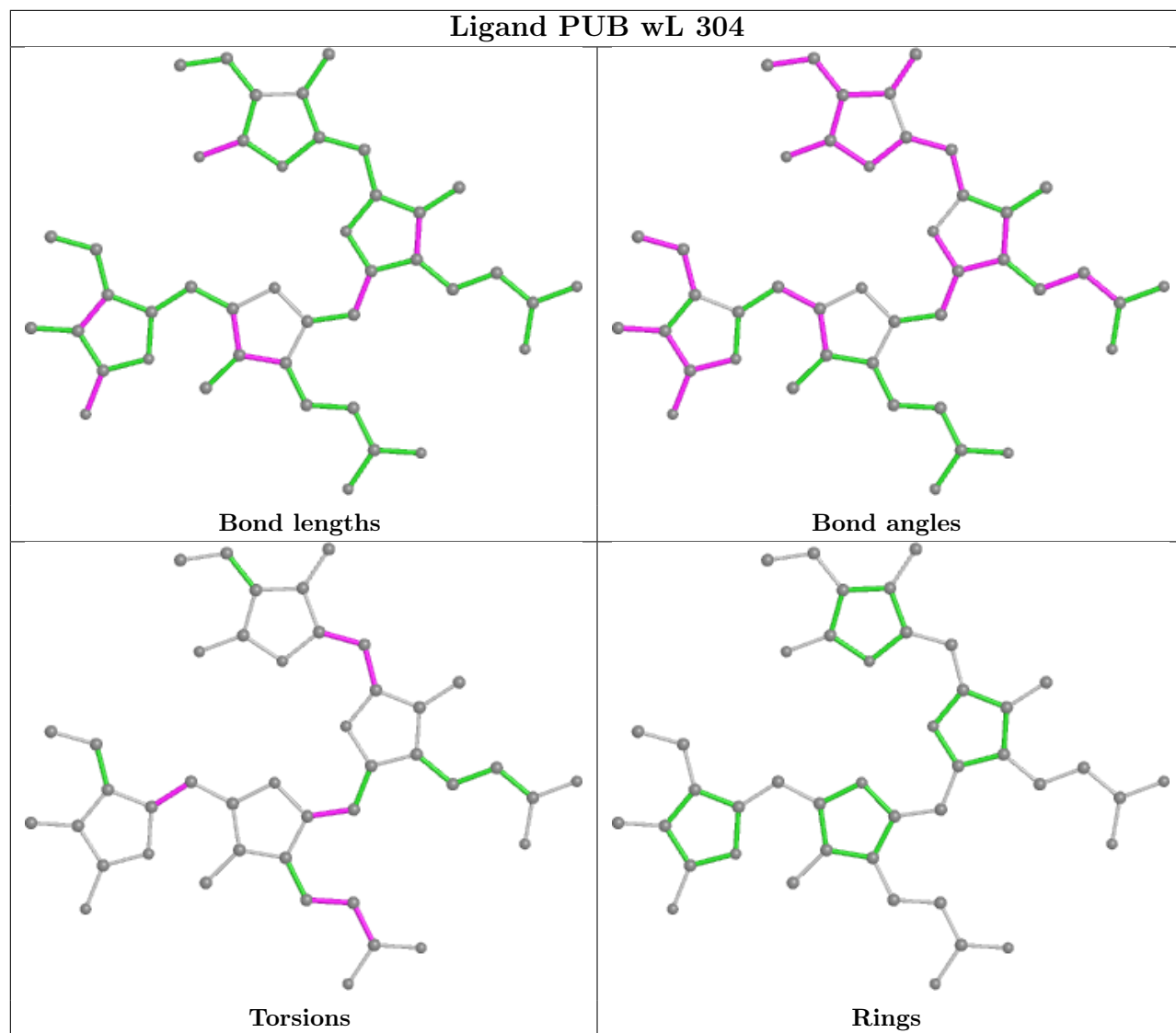


Torsions

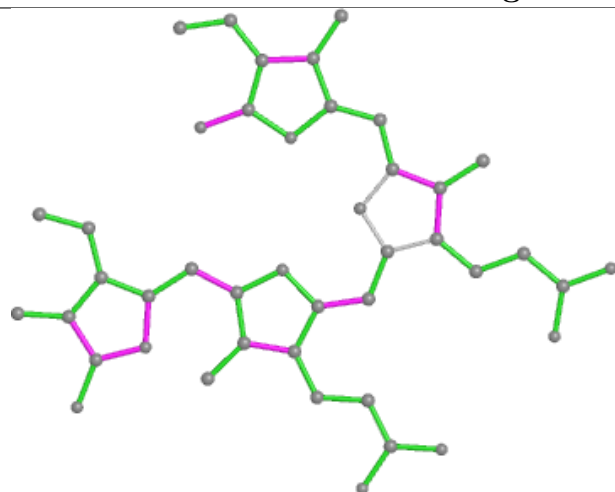


Rings

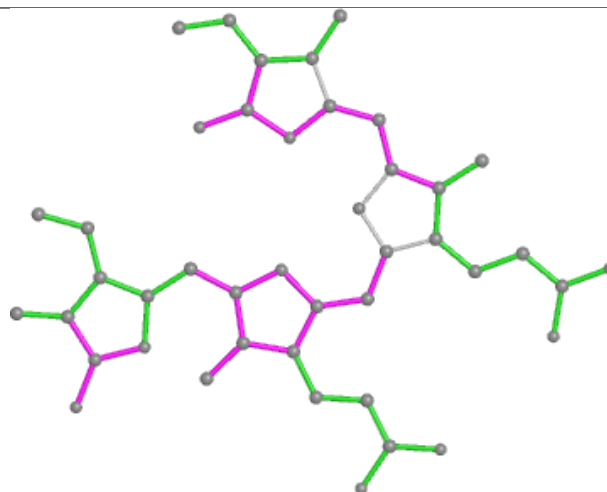




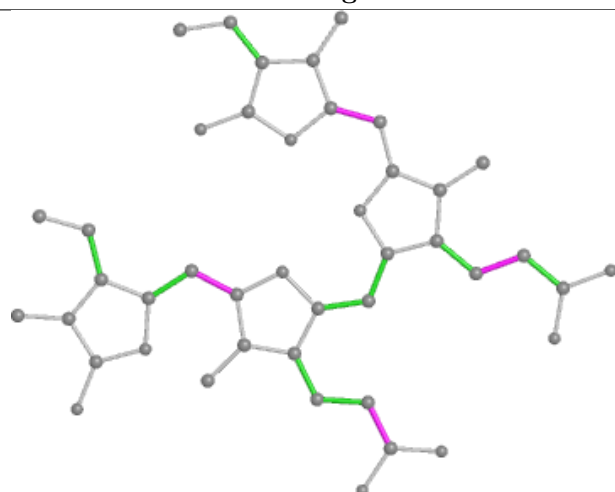
Ligand PEB GC 201



Bond lengths



Bond angles

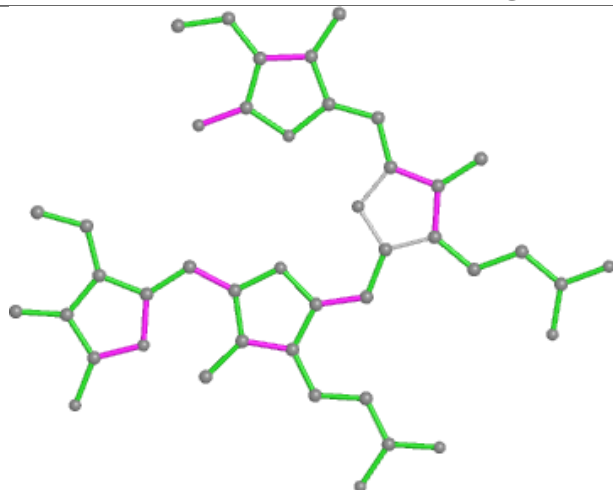


Torsions

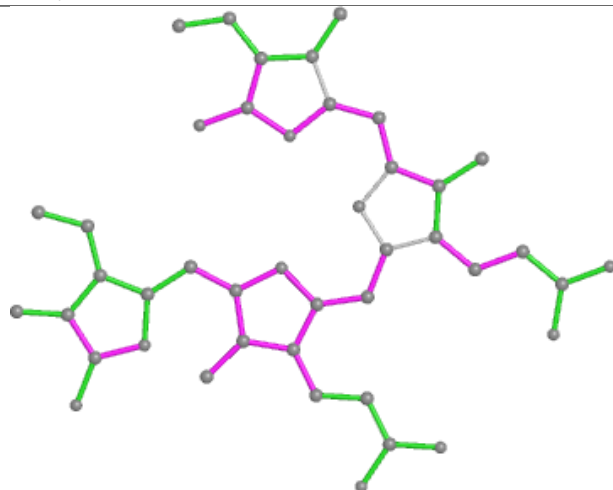


Rings

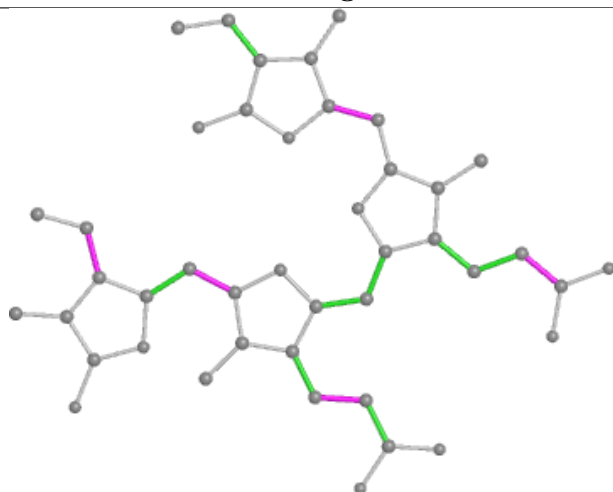
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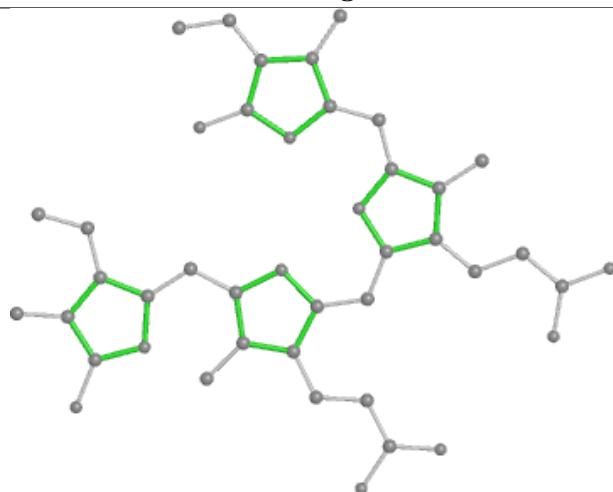
Bond lengths



Bond angles

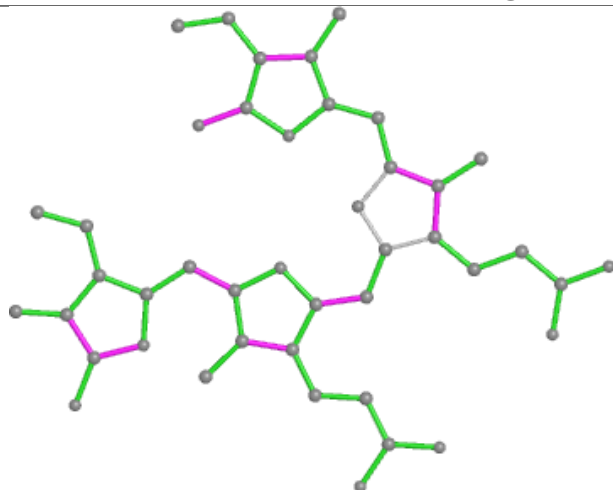


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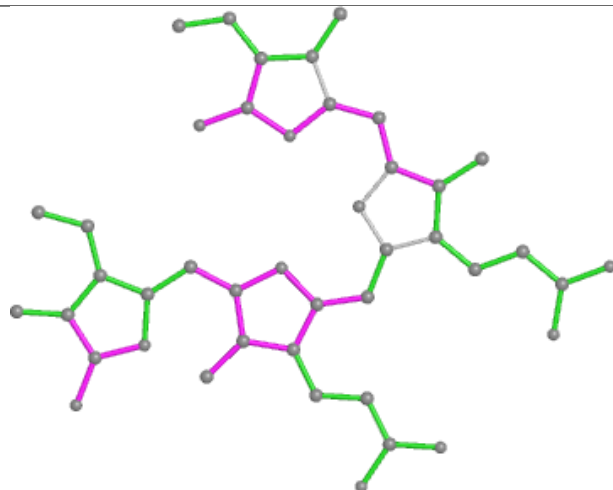


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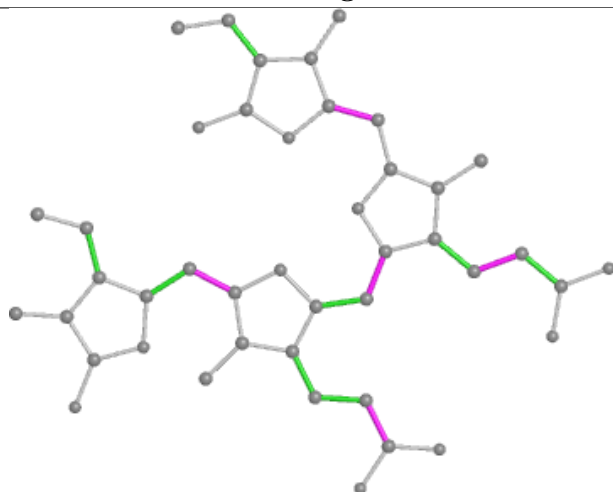
Ligand PEB BC 203



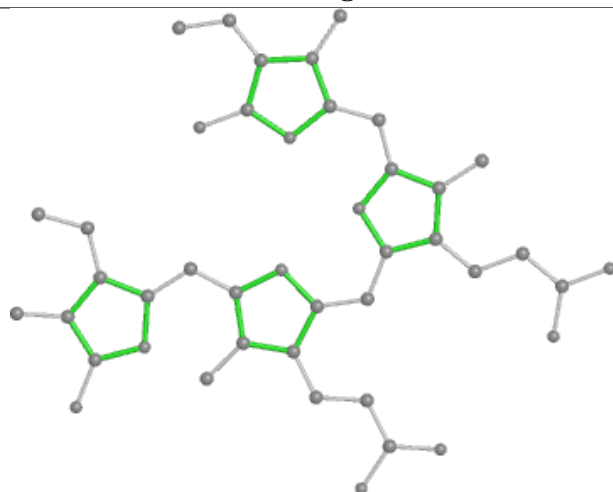
Bond lengths



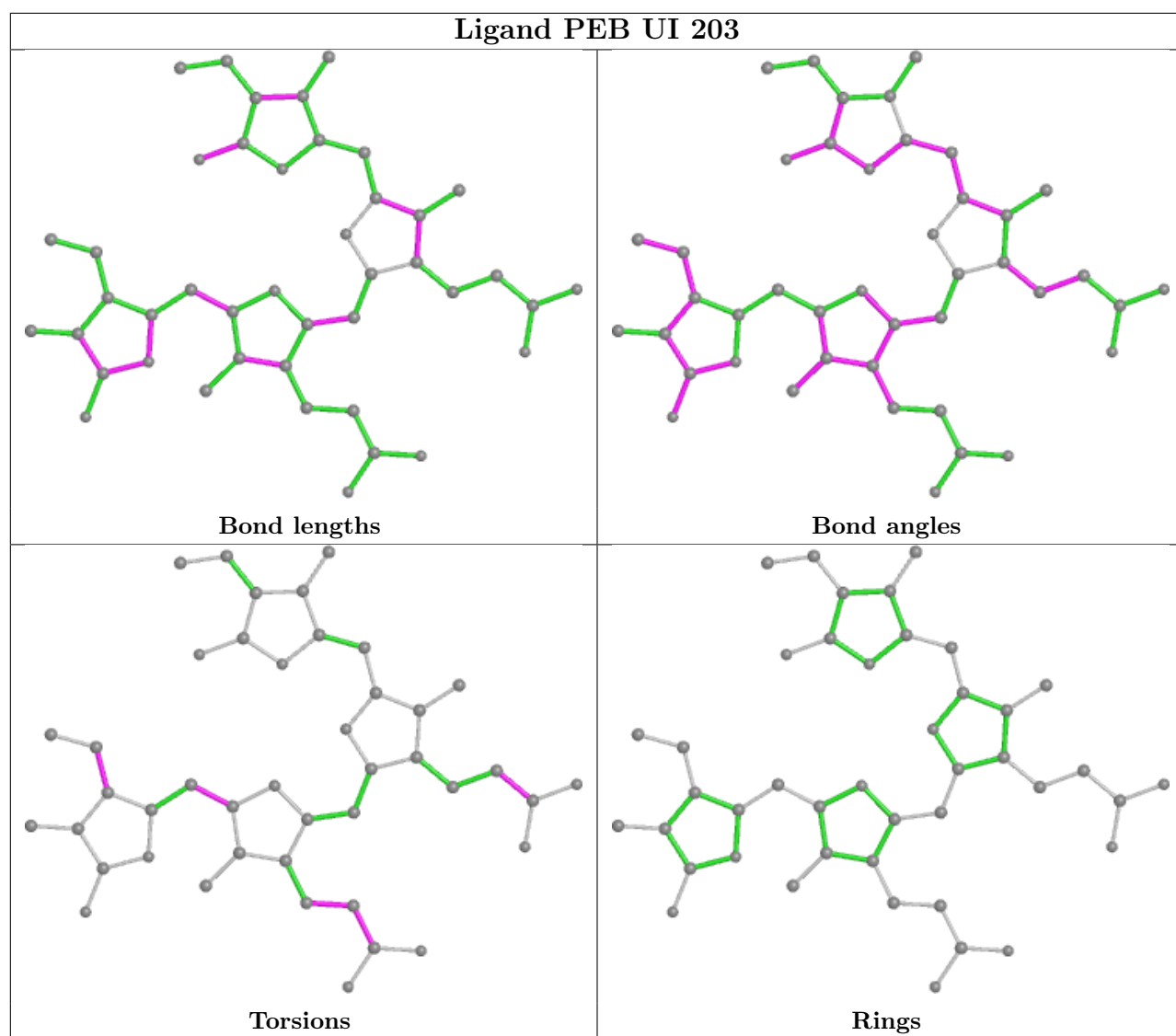
Bond angles



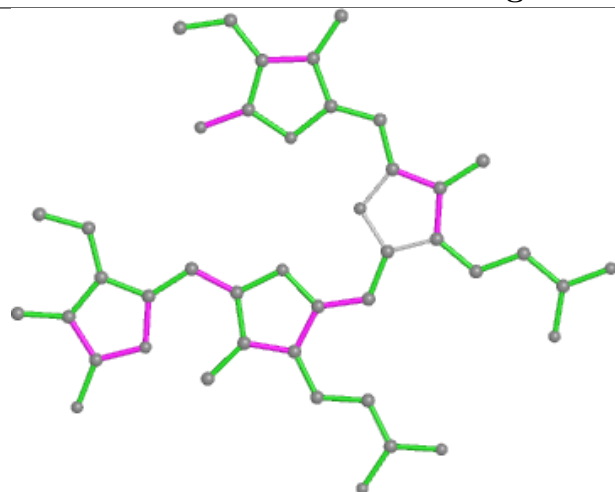
Torsions



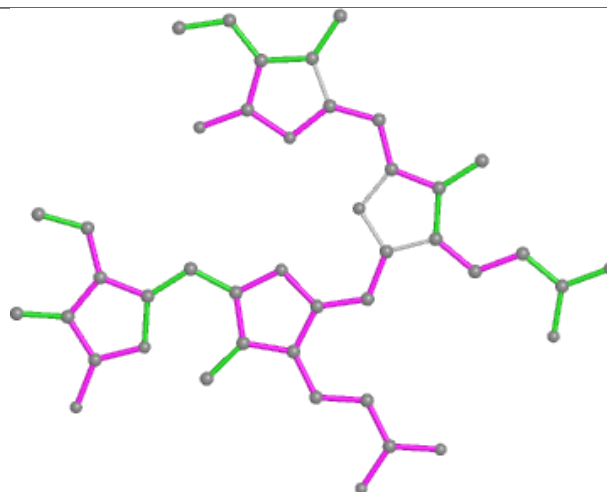
Rings



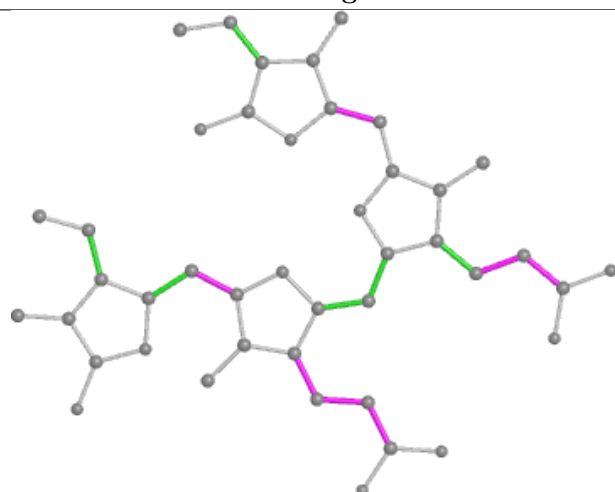
Ligand PEB JN 201



Bond lengths



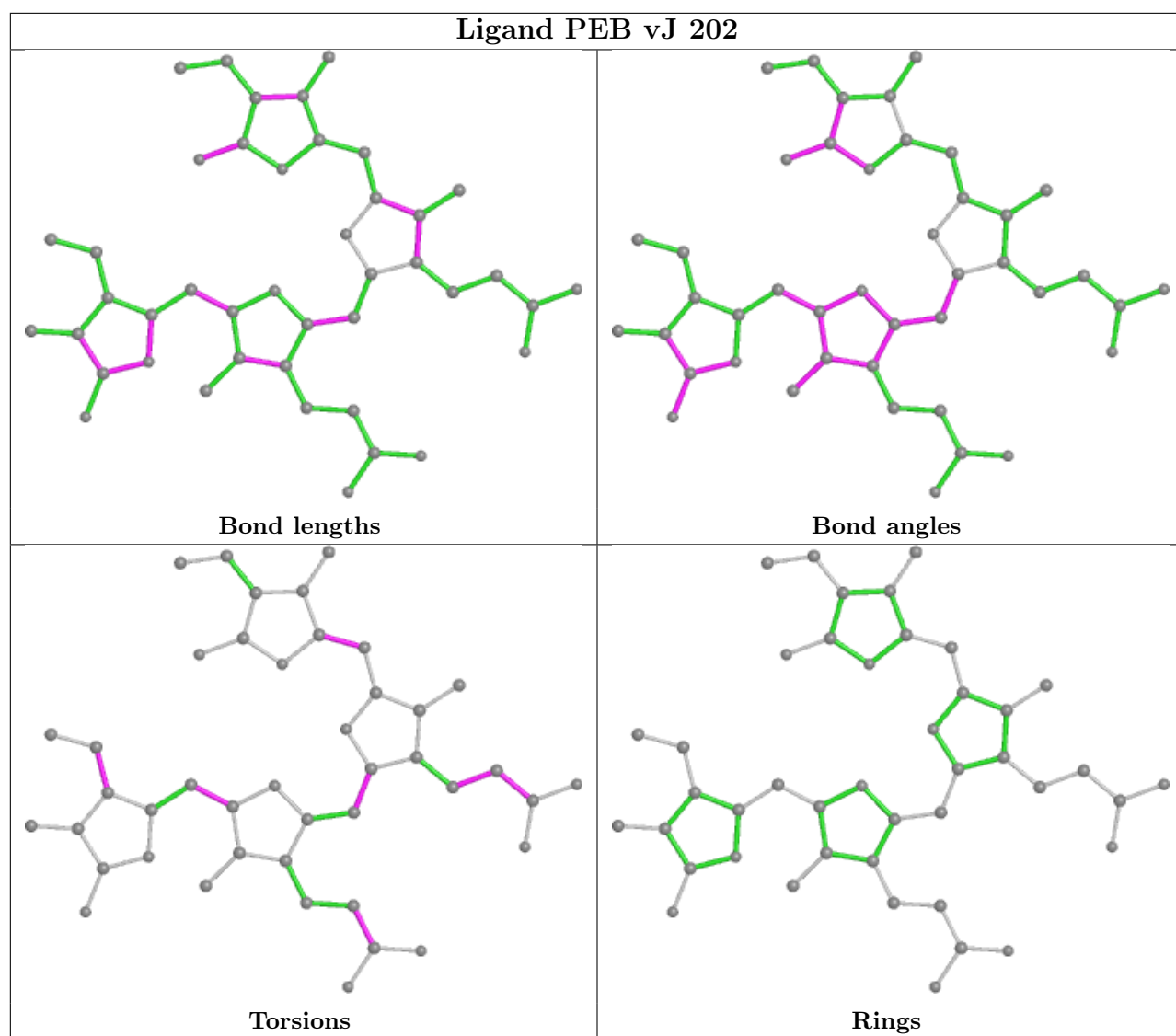
Bond angles



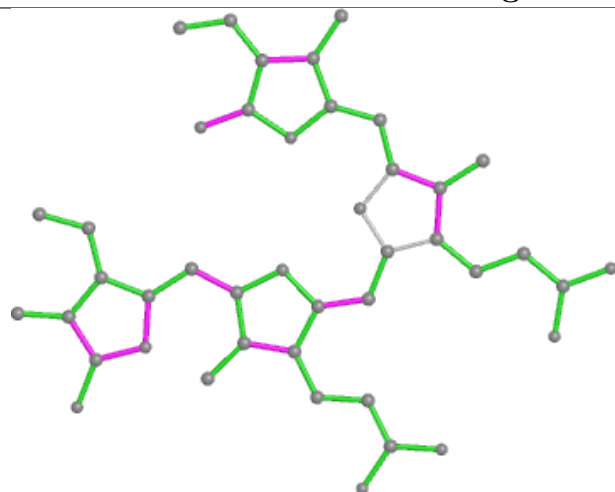
Torsions



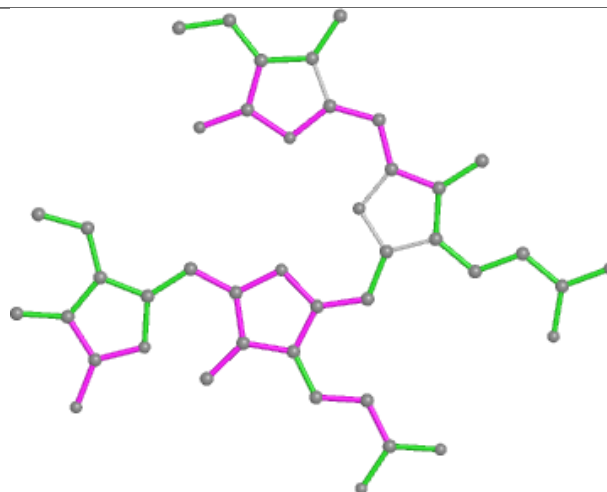
Rings



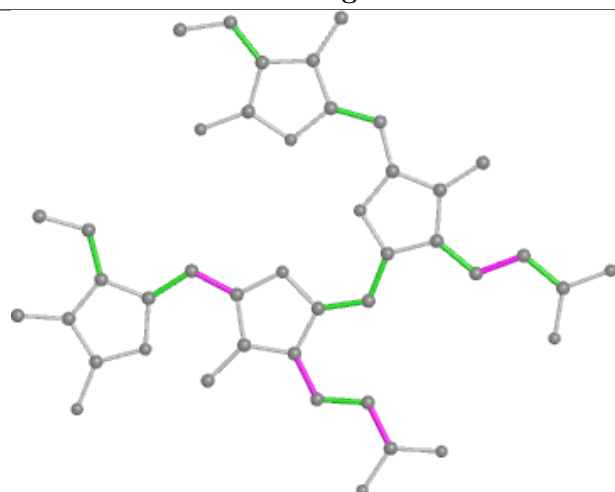
Ligand PEB YK 201



Bond lengths



Bond angles

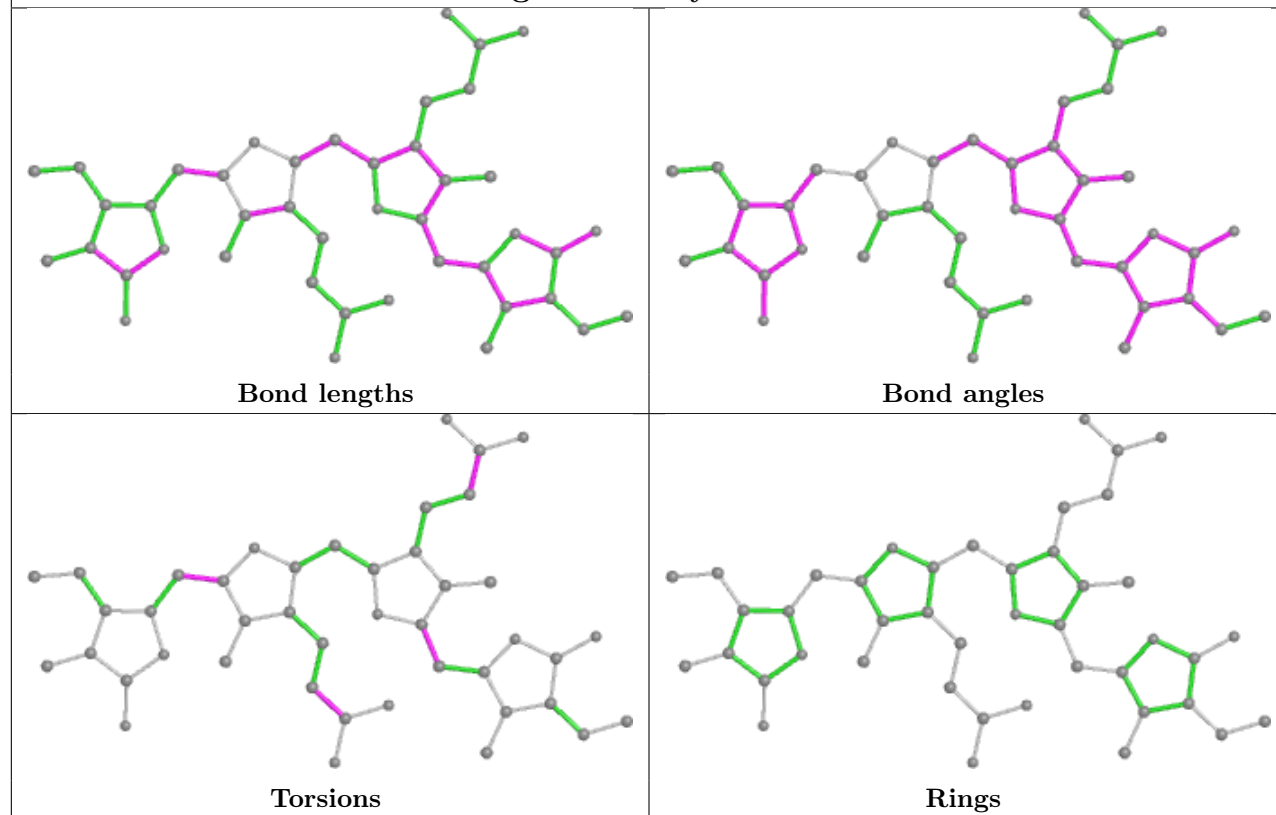


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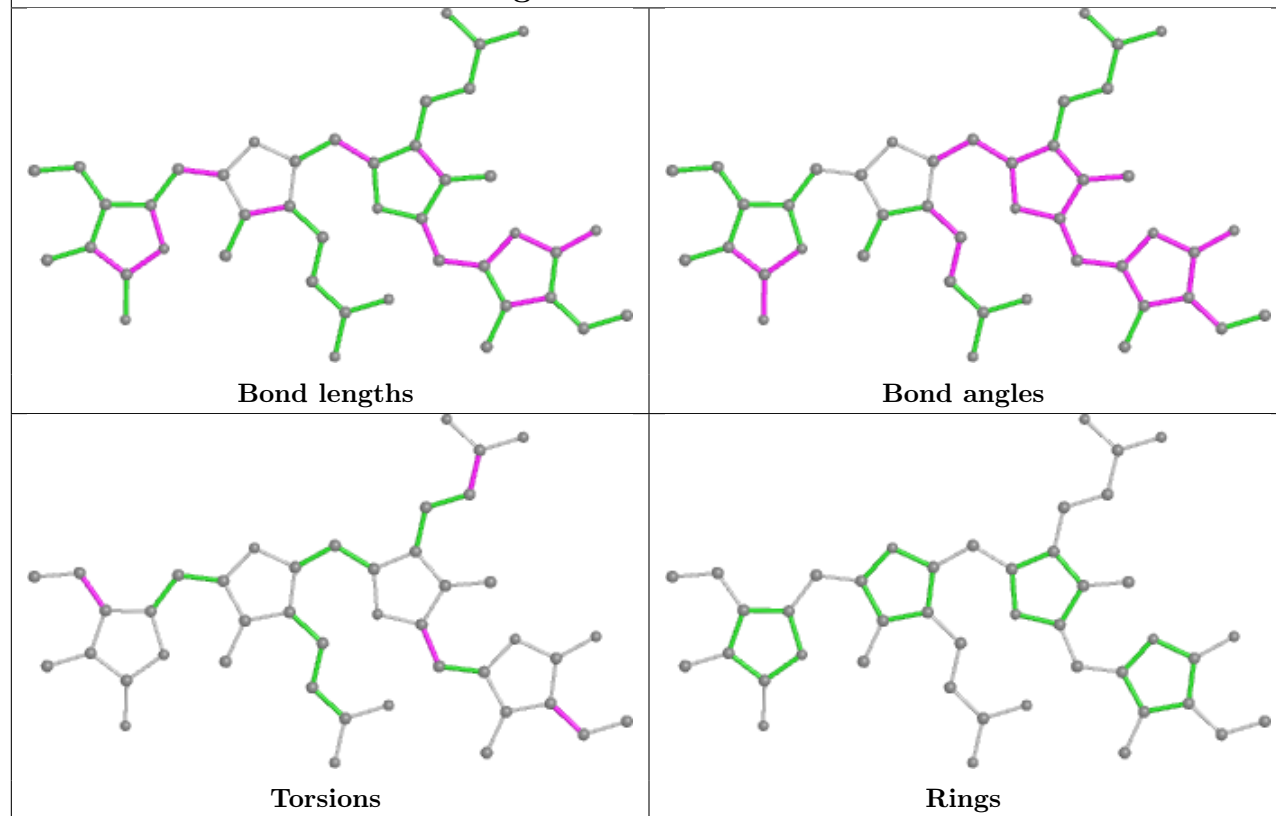


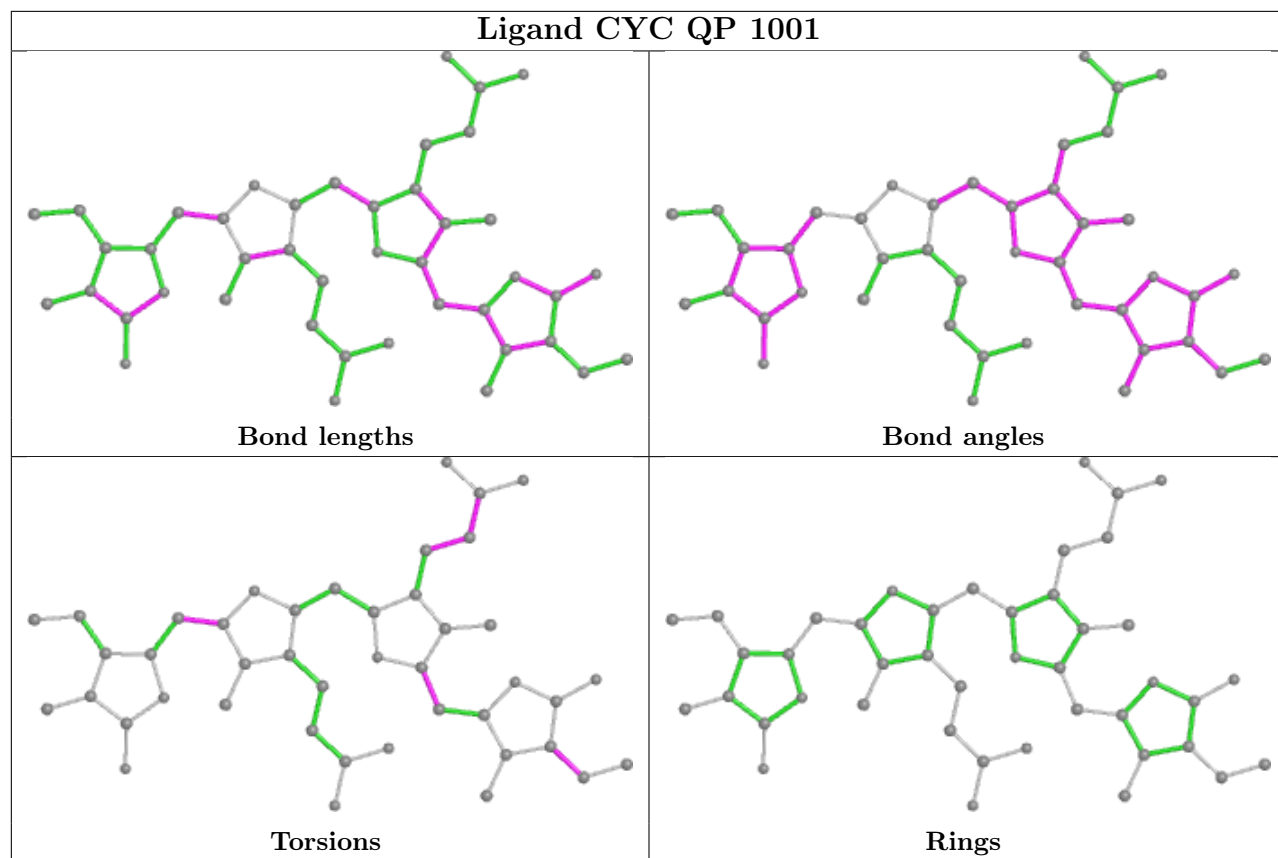
Rings

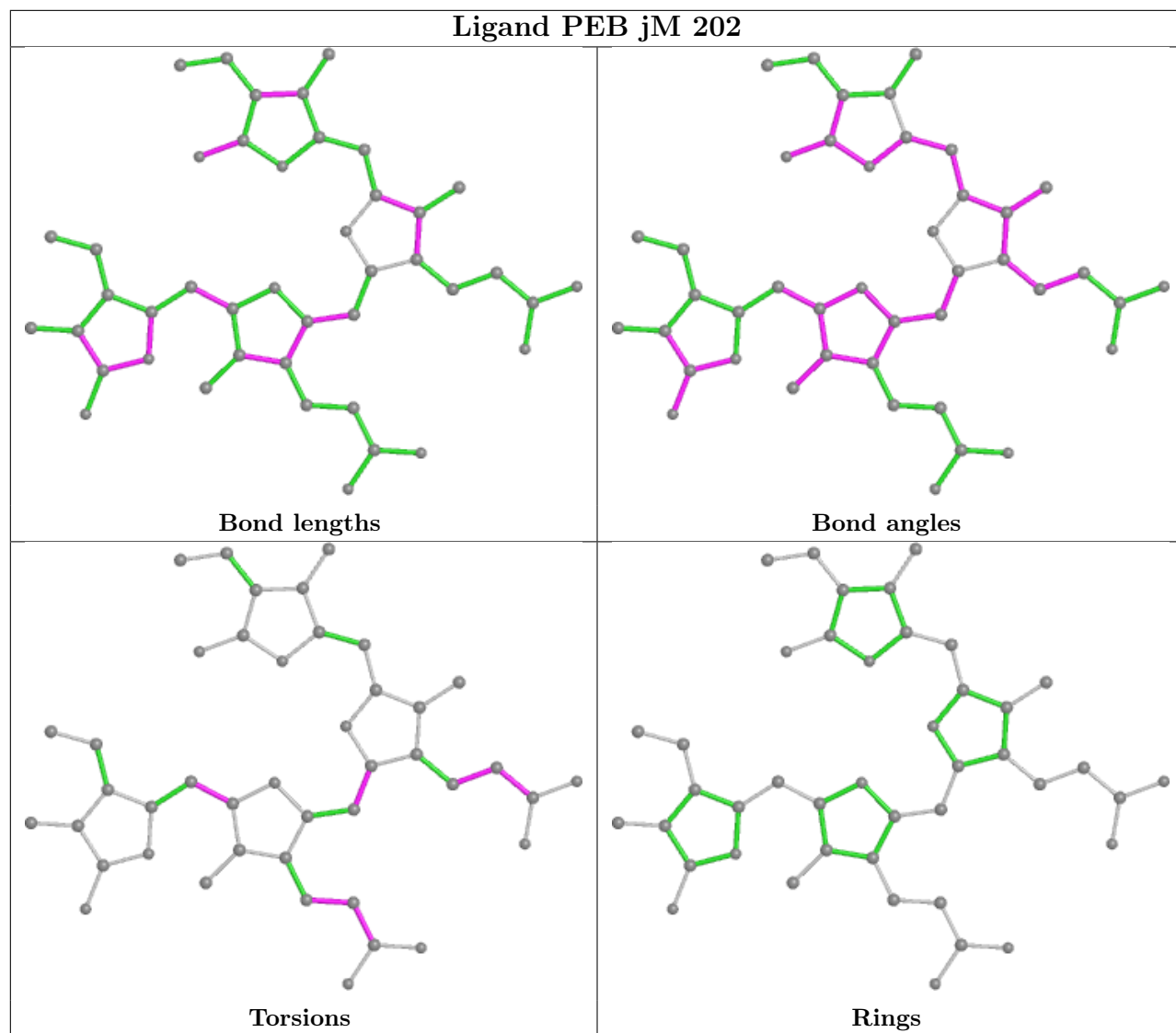
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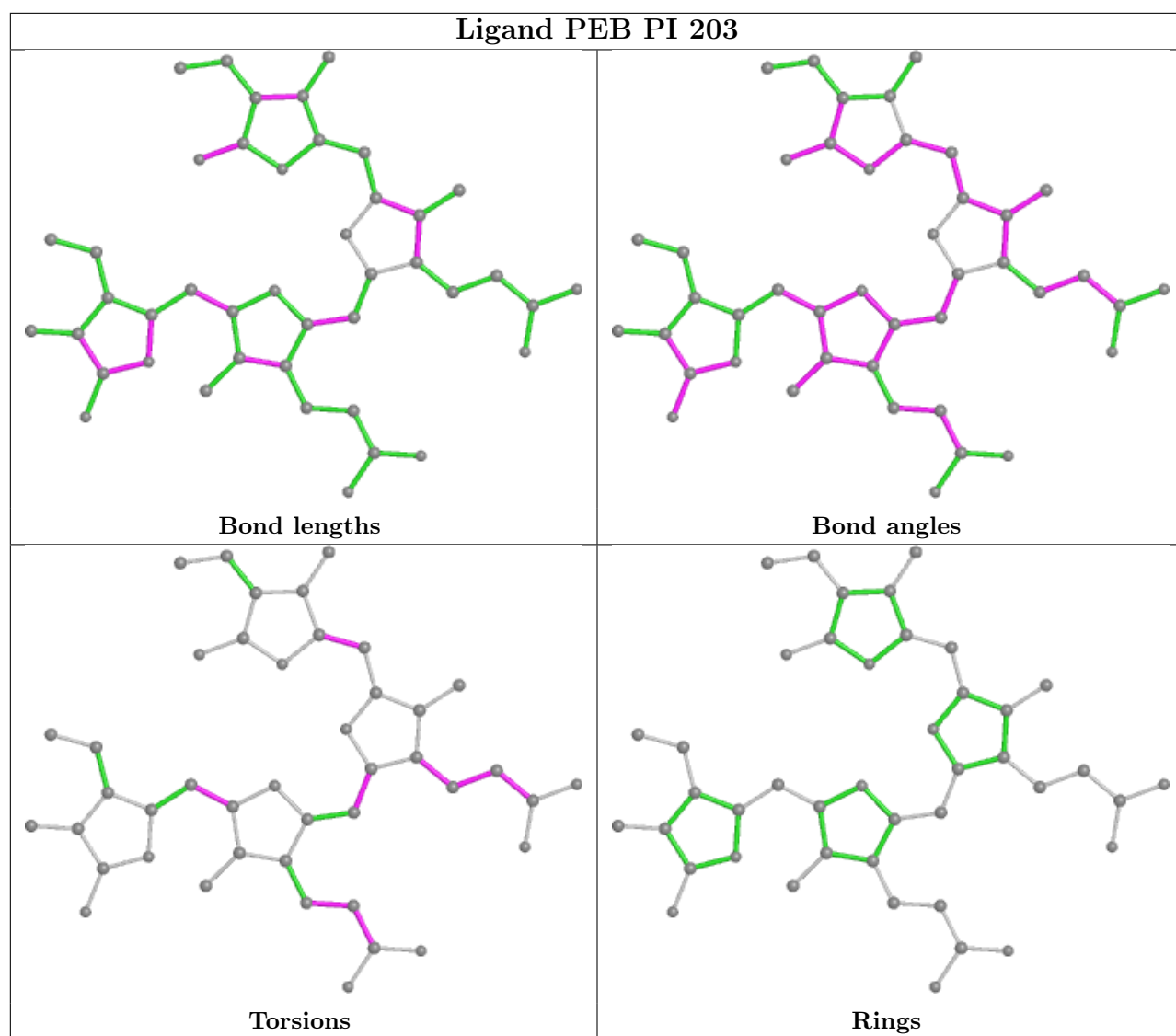


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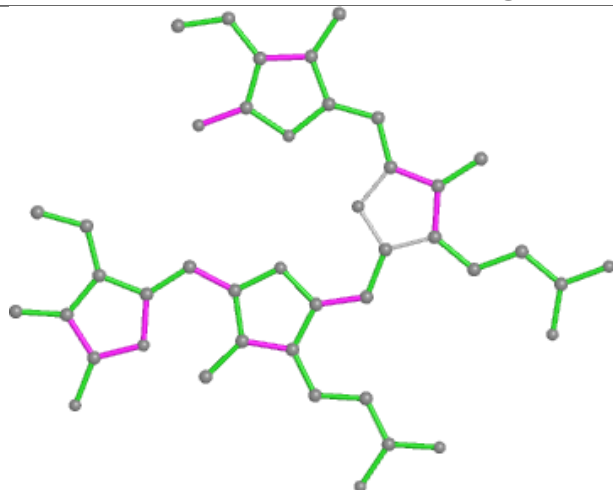




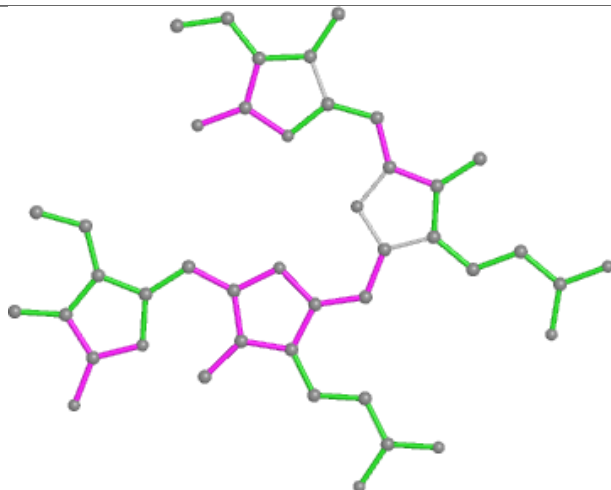




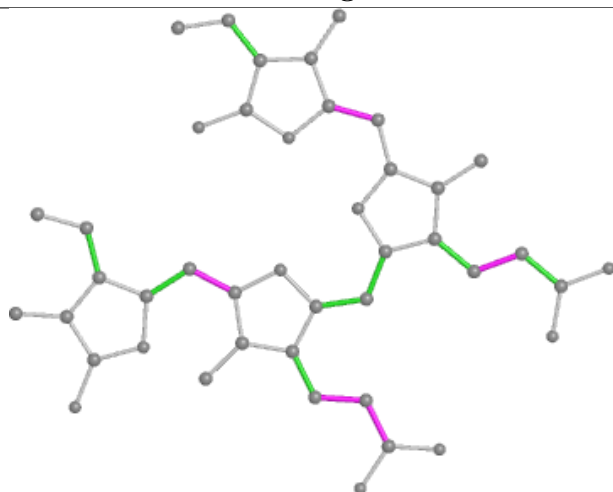
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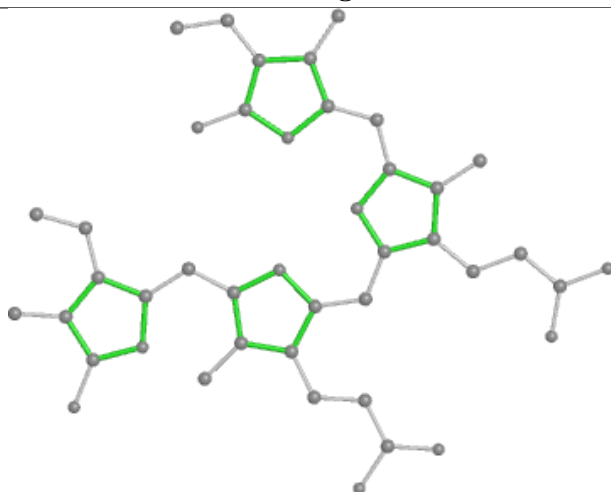
Bond lengths



Bond angles

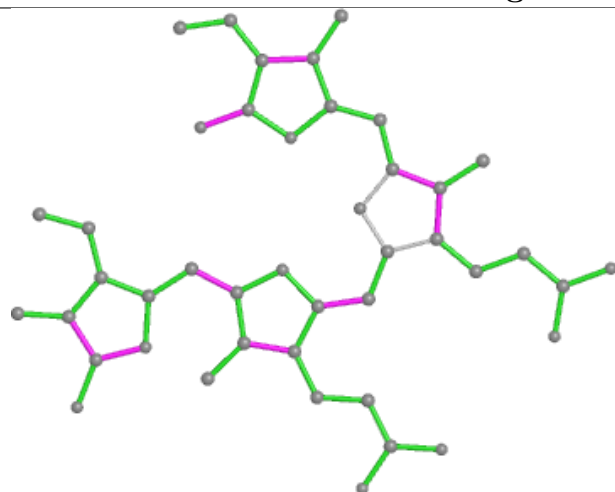


Torsions

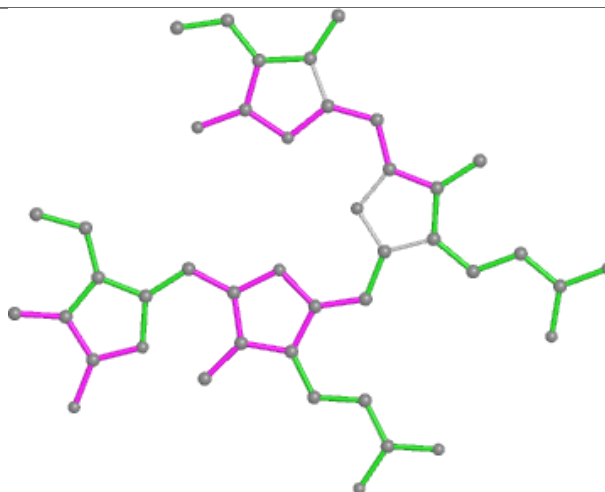


Rings

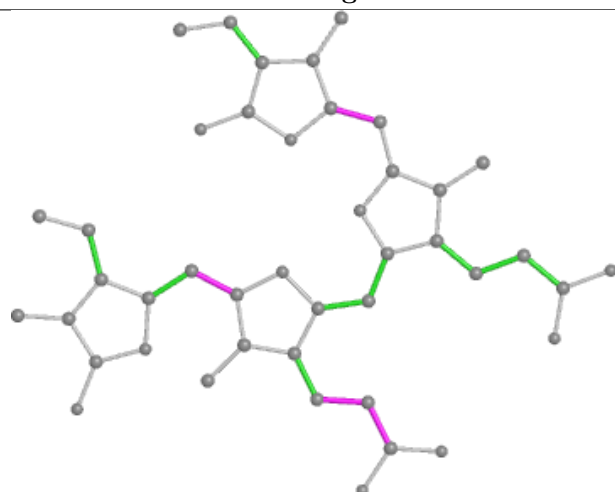
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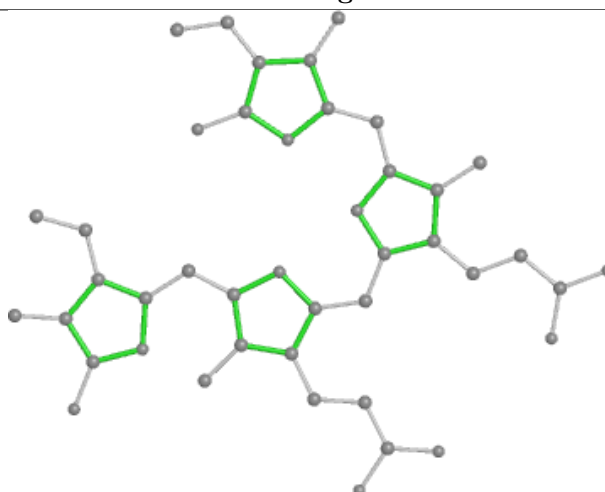
Bond lengths



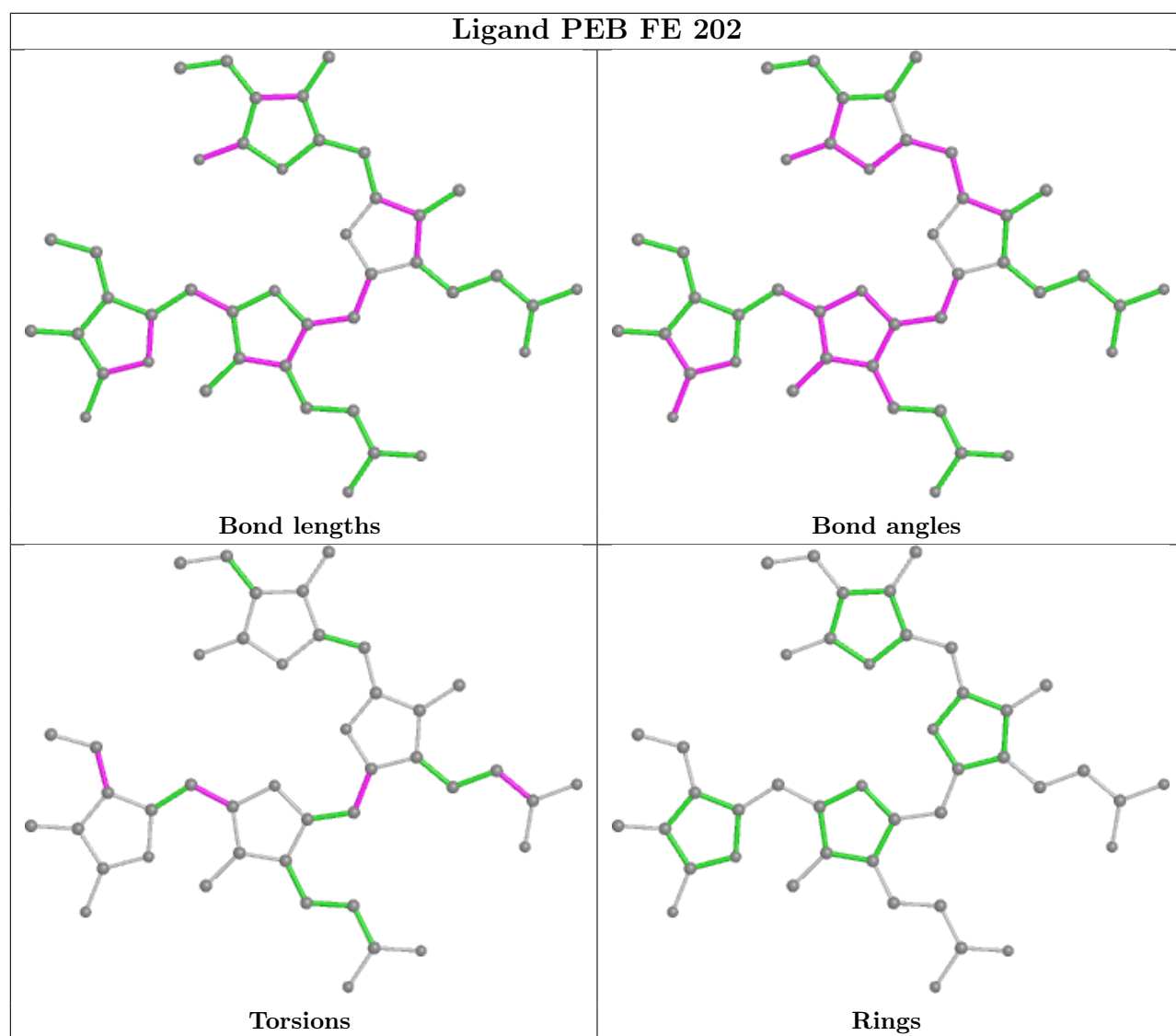
Bond angles



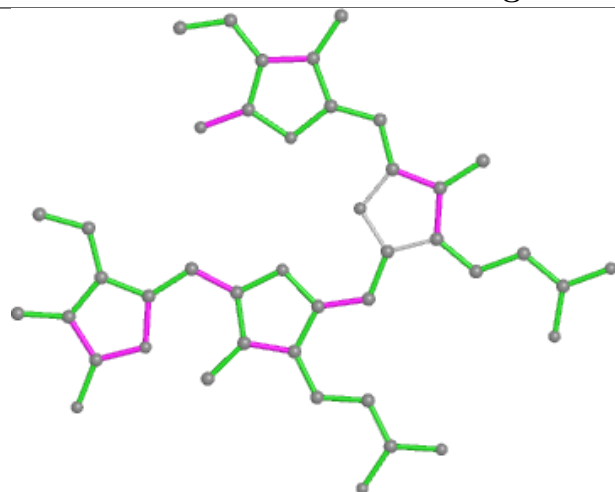
Torsions



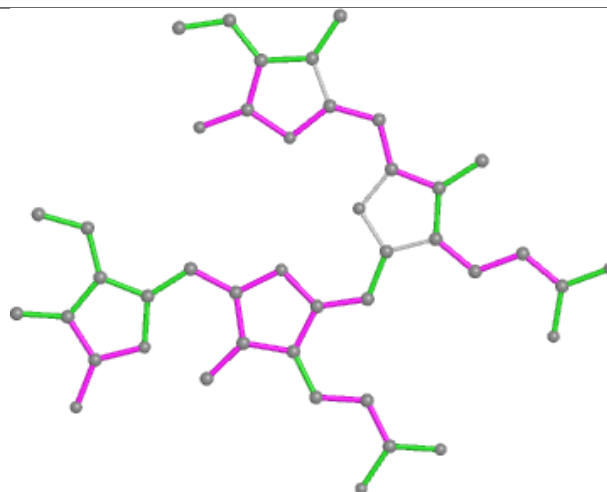
Rings



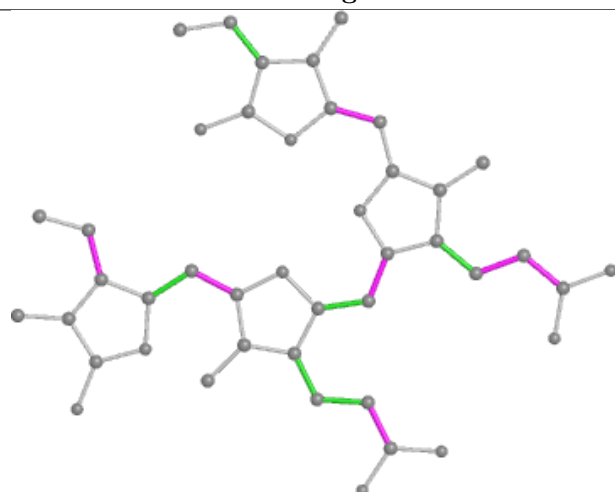
Ligand PEB RR 203



Bond lengths



Bond angles

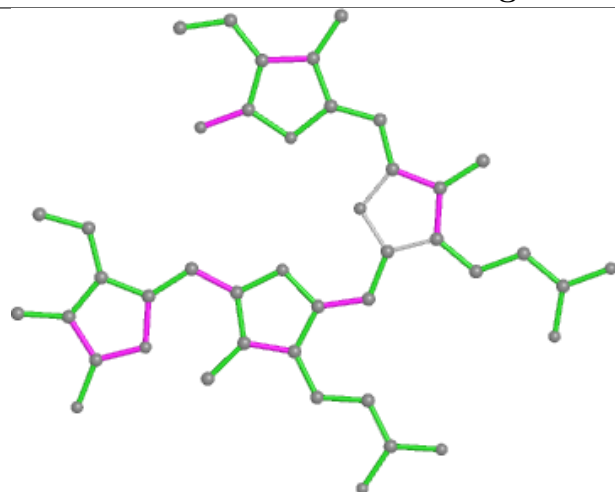


Torsions

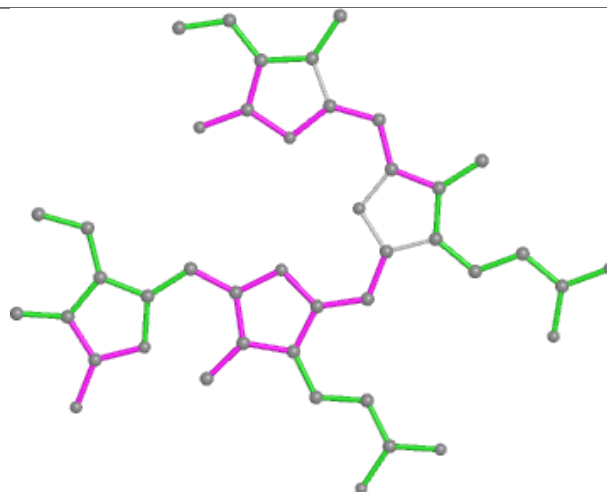


Rings

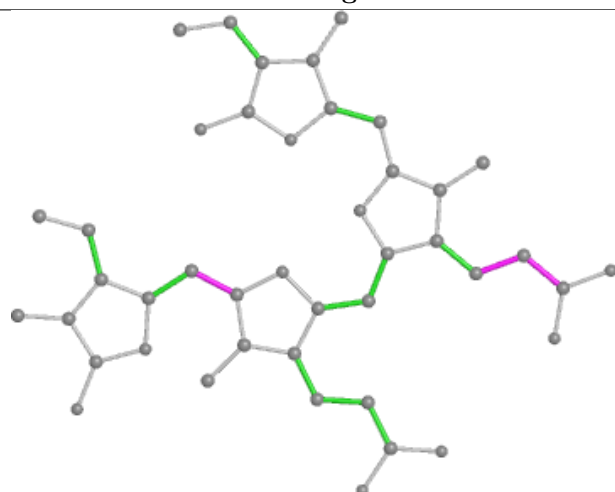
Ligand PEB YM 202



Bond lengths



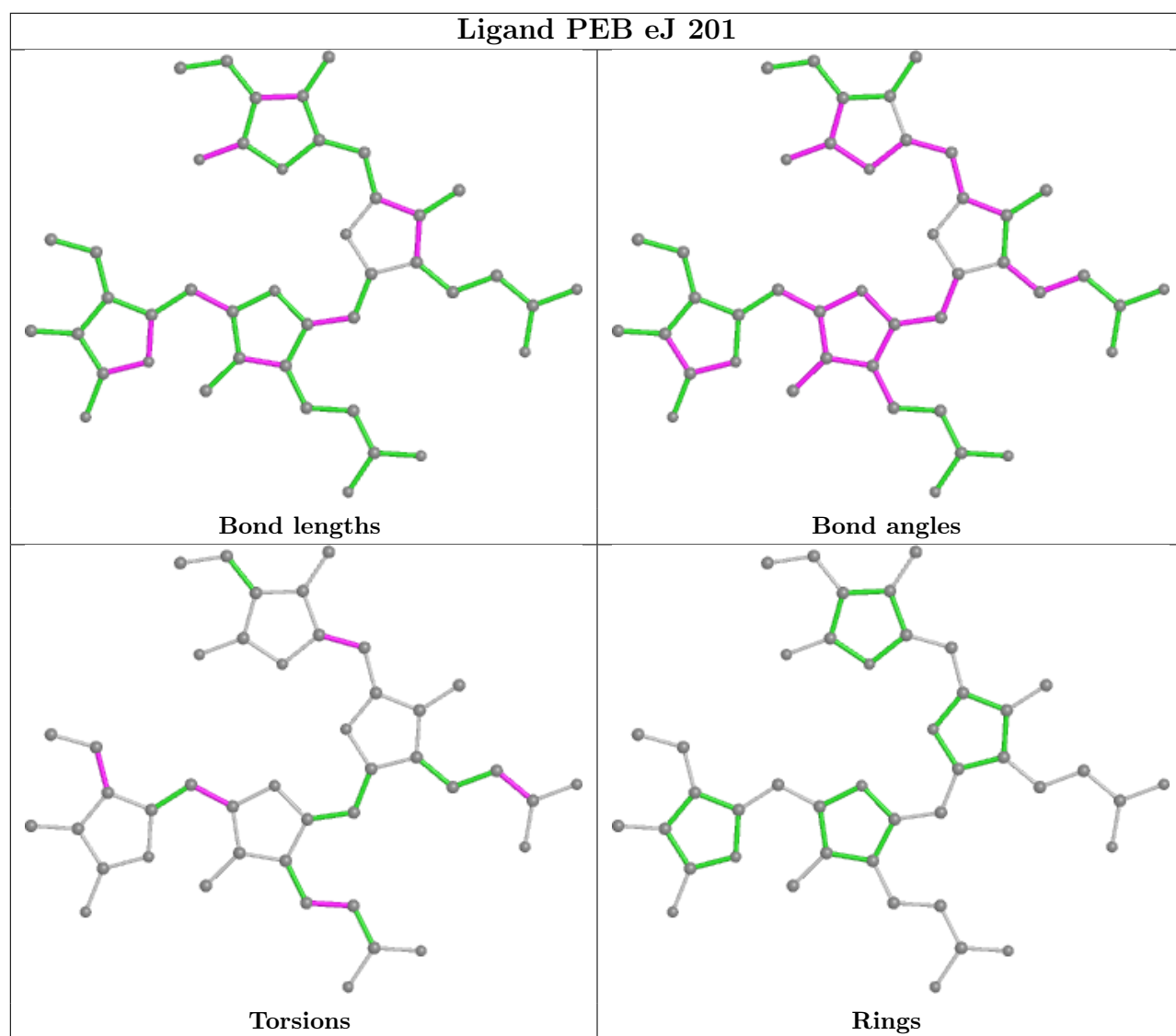
Bond angles



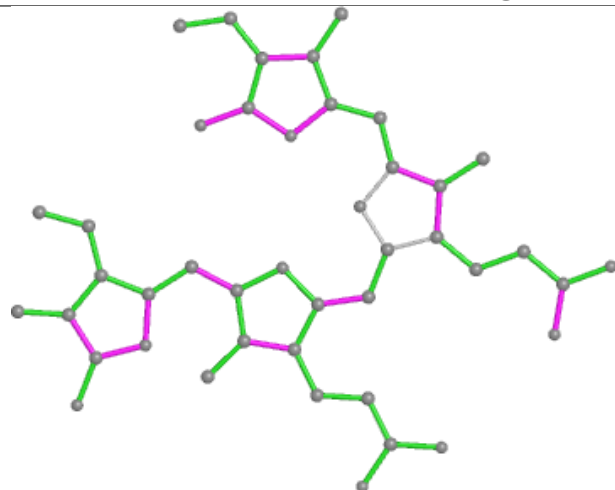
Torsions



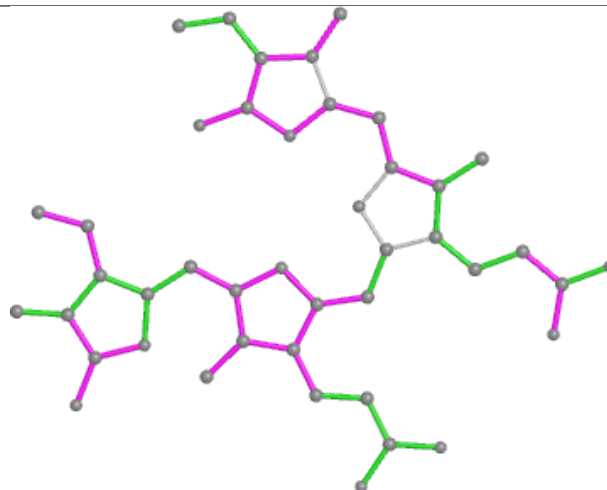
Rings



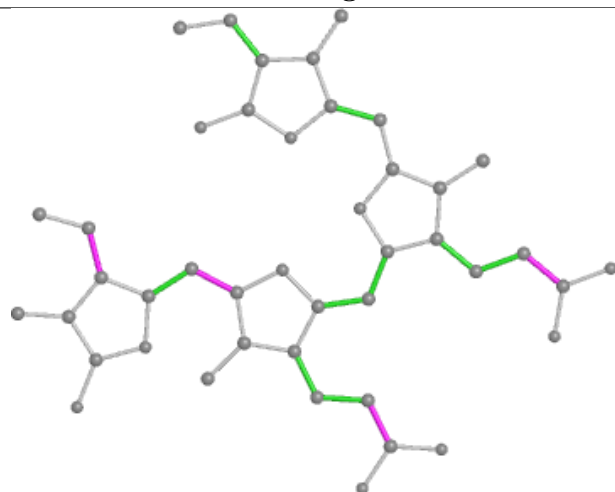
Ligand PEB JK 1002



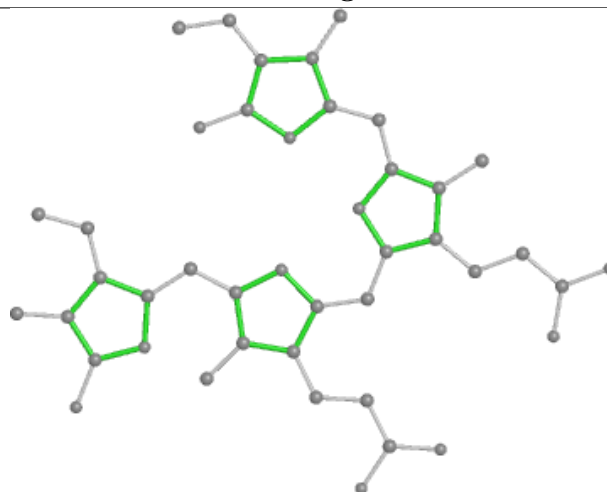
Bond lengths



Bond angles

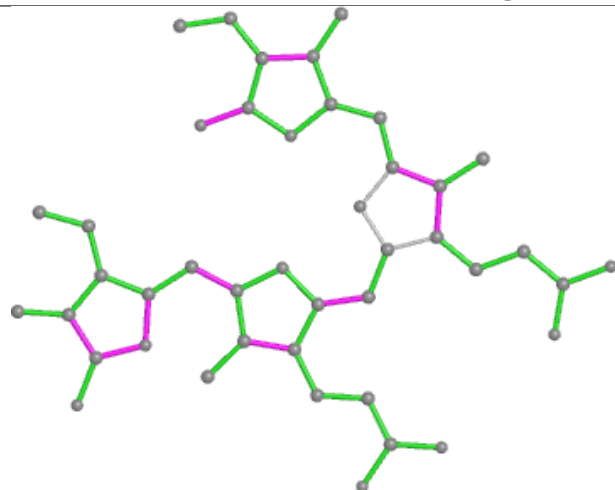


Torsions

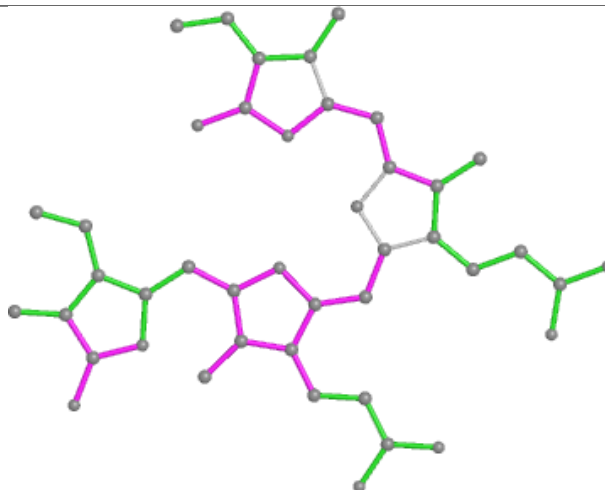


Rings

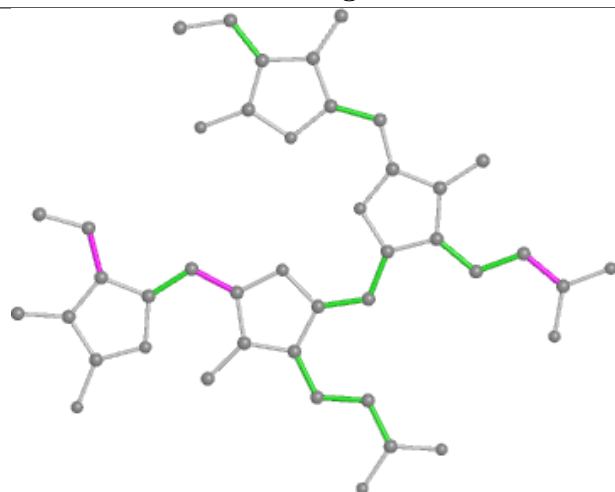
Ligand PEB YM 201



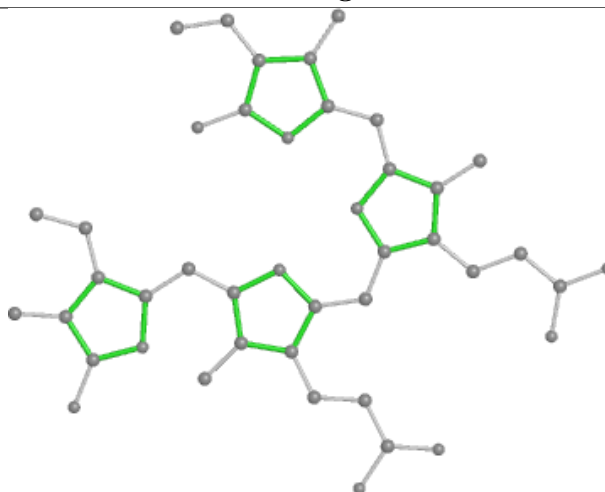
Bond lengths



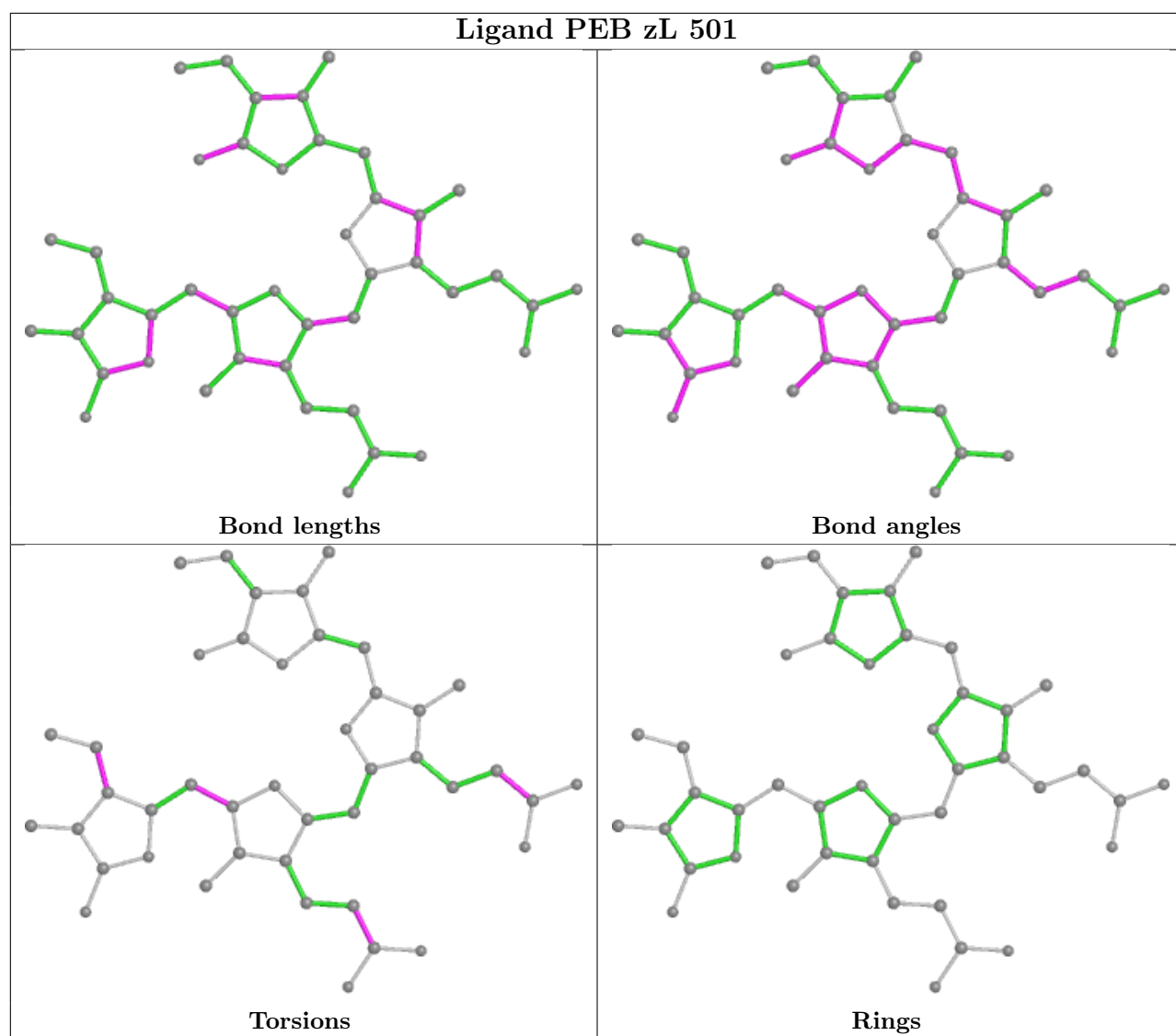
Bond angles

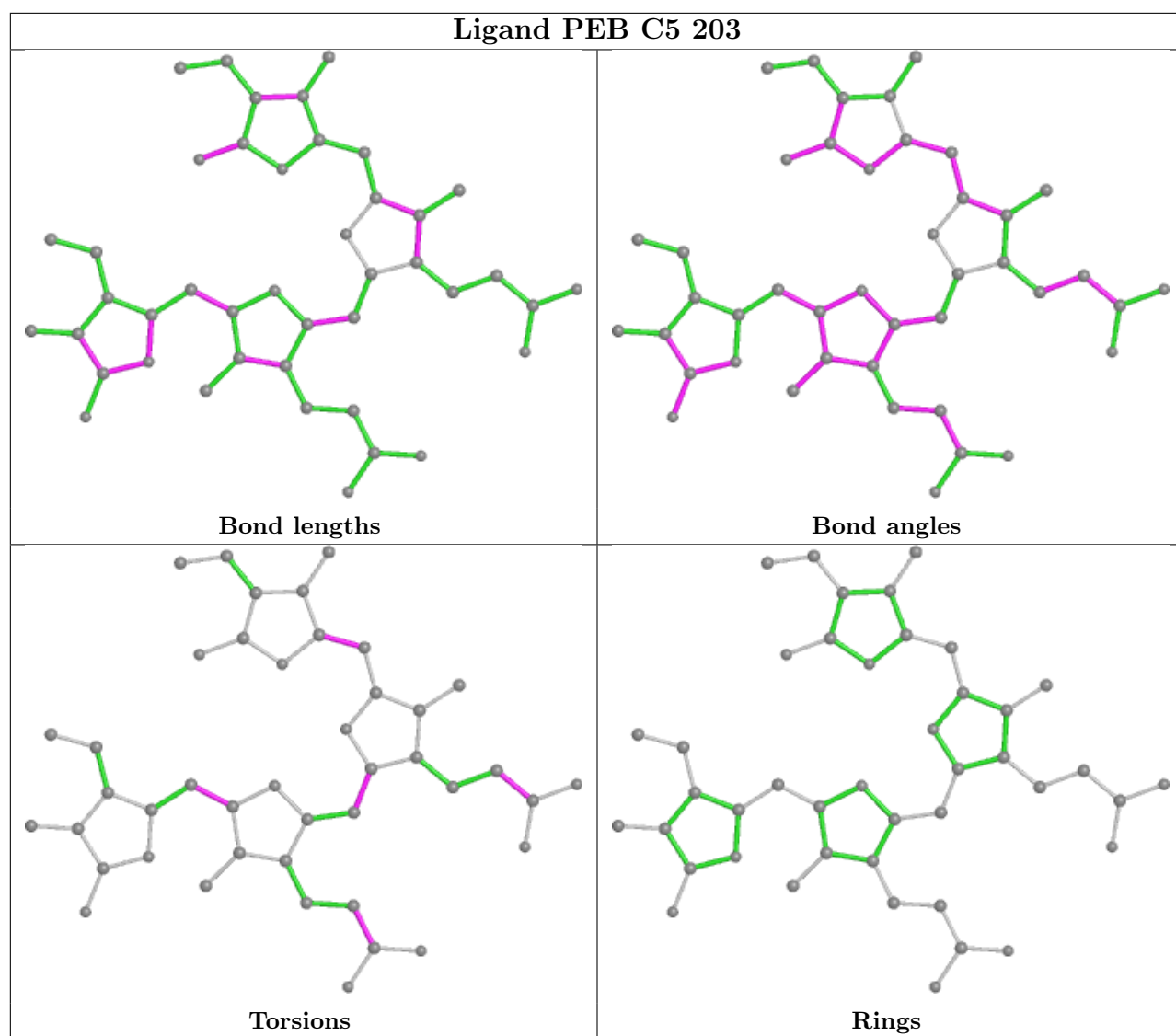


Torsions

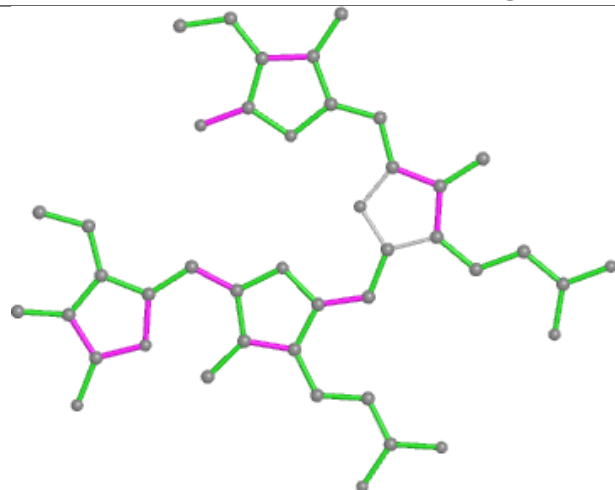


Rings

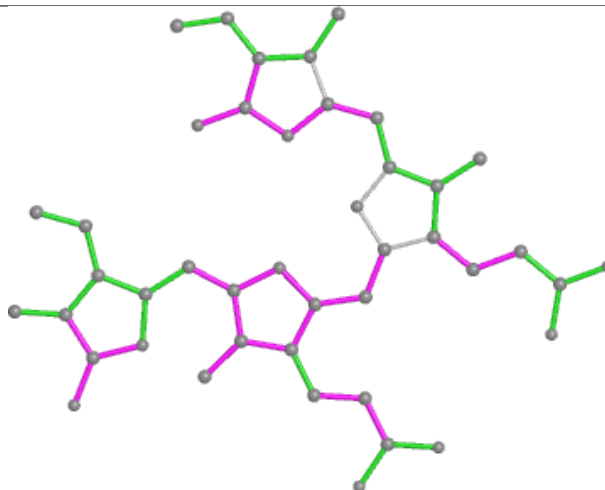




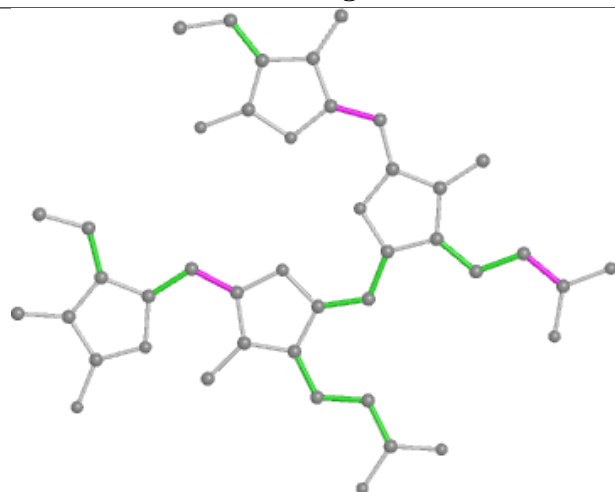
Ligand PEB FM 201



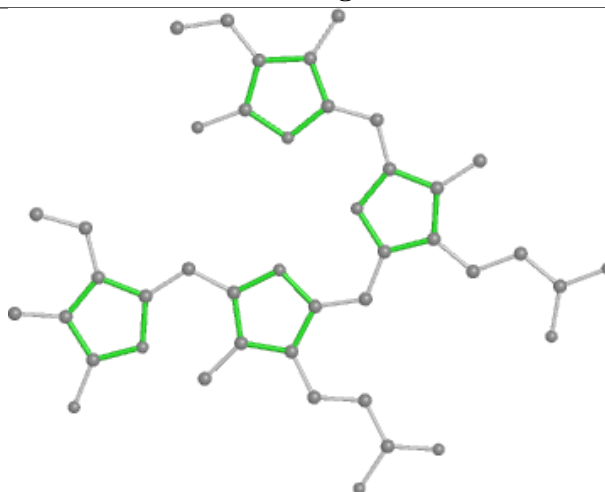
Bond lengths



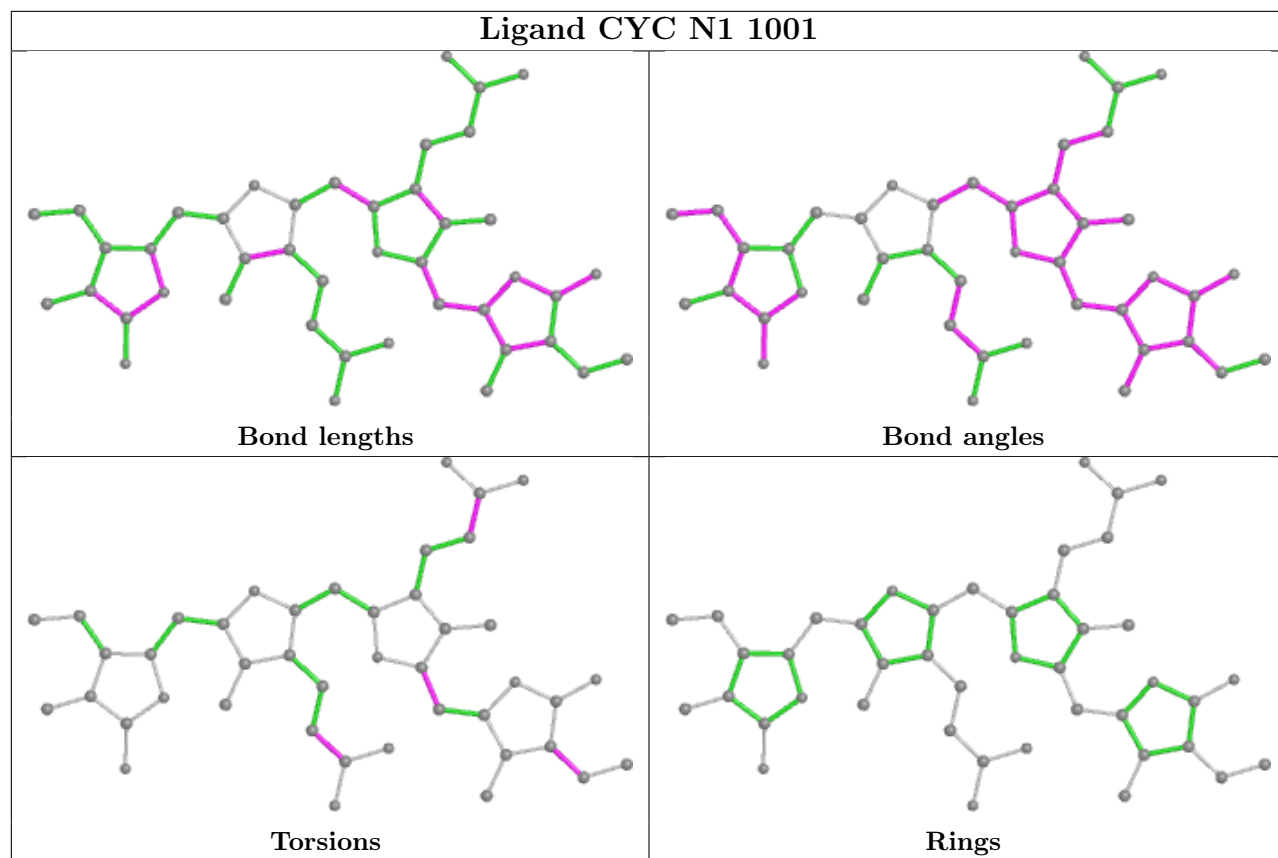
Bond angles

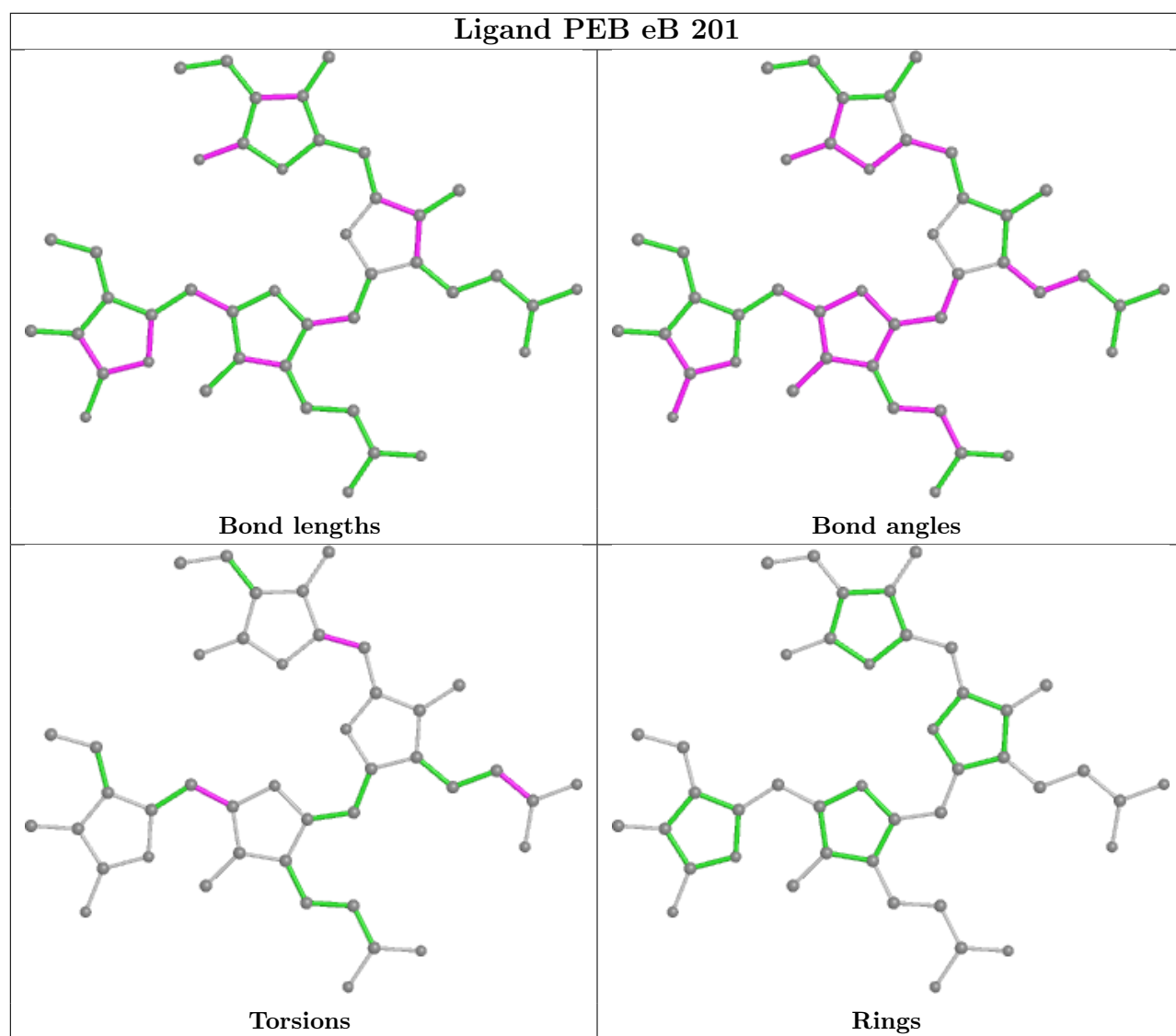


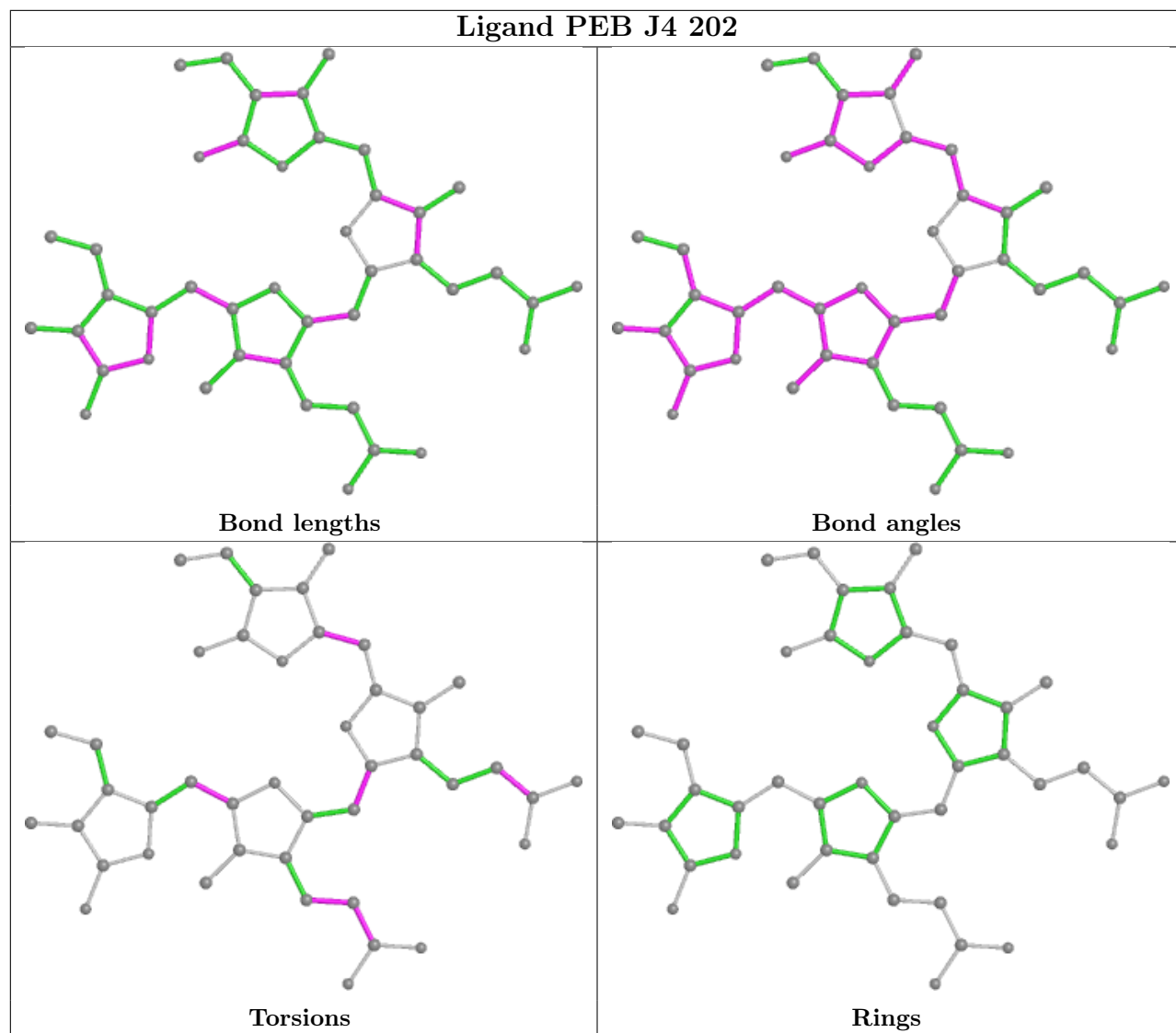
Torsions

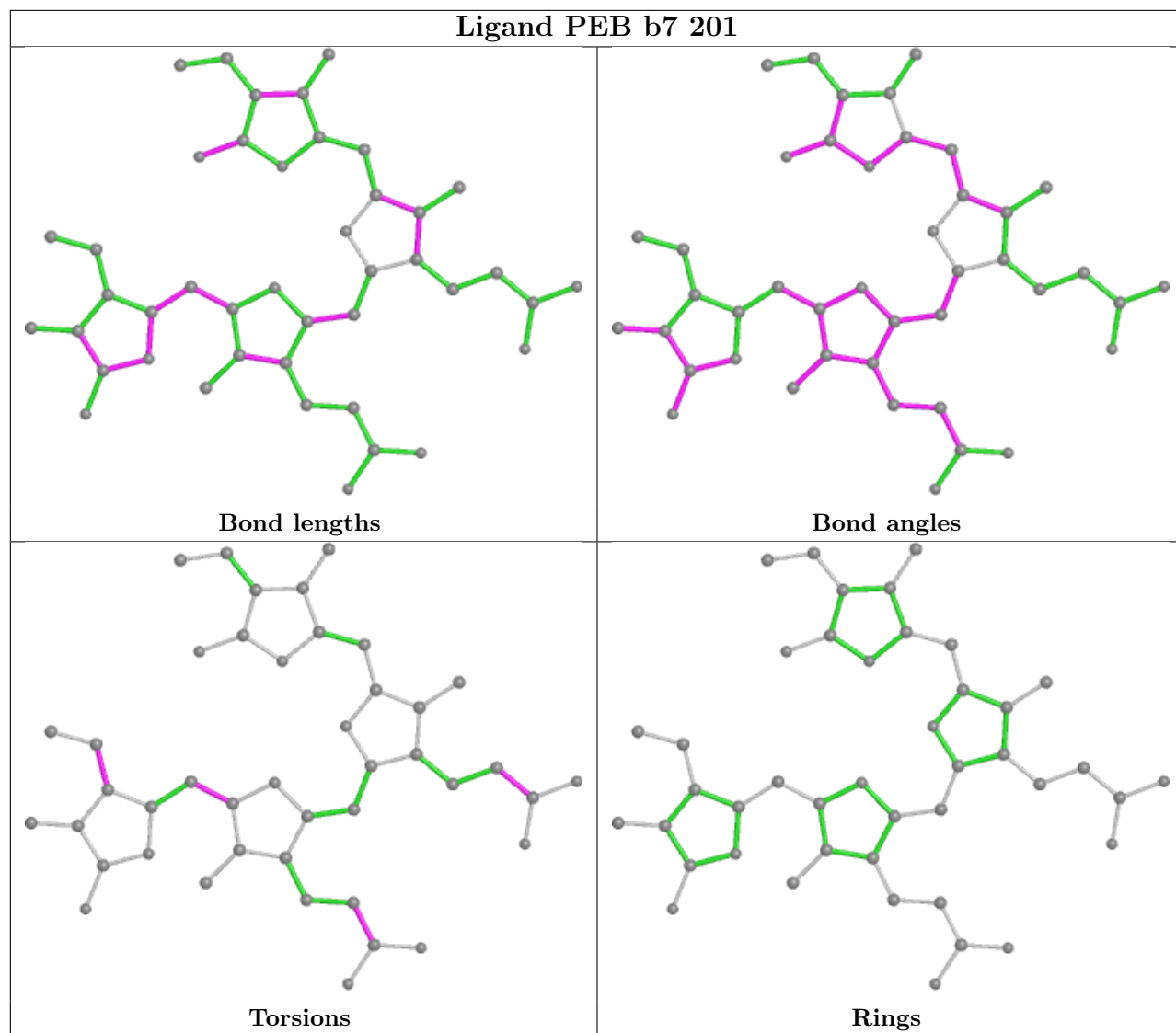


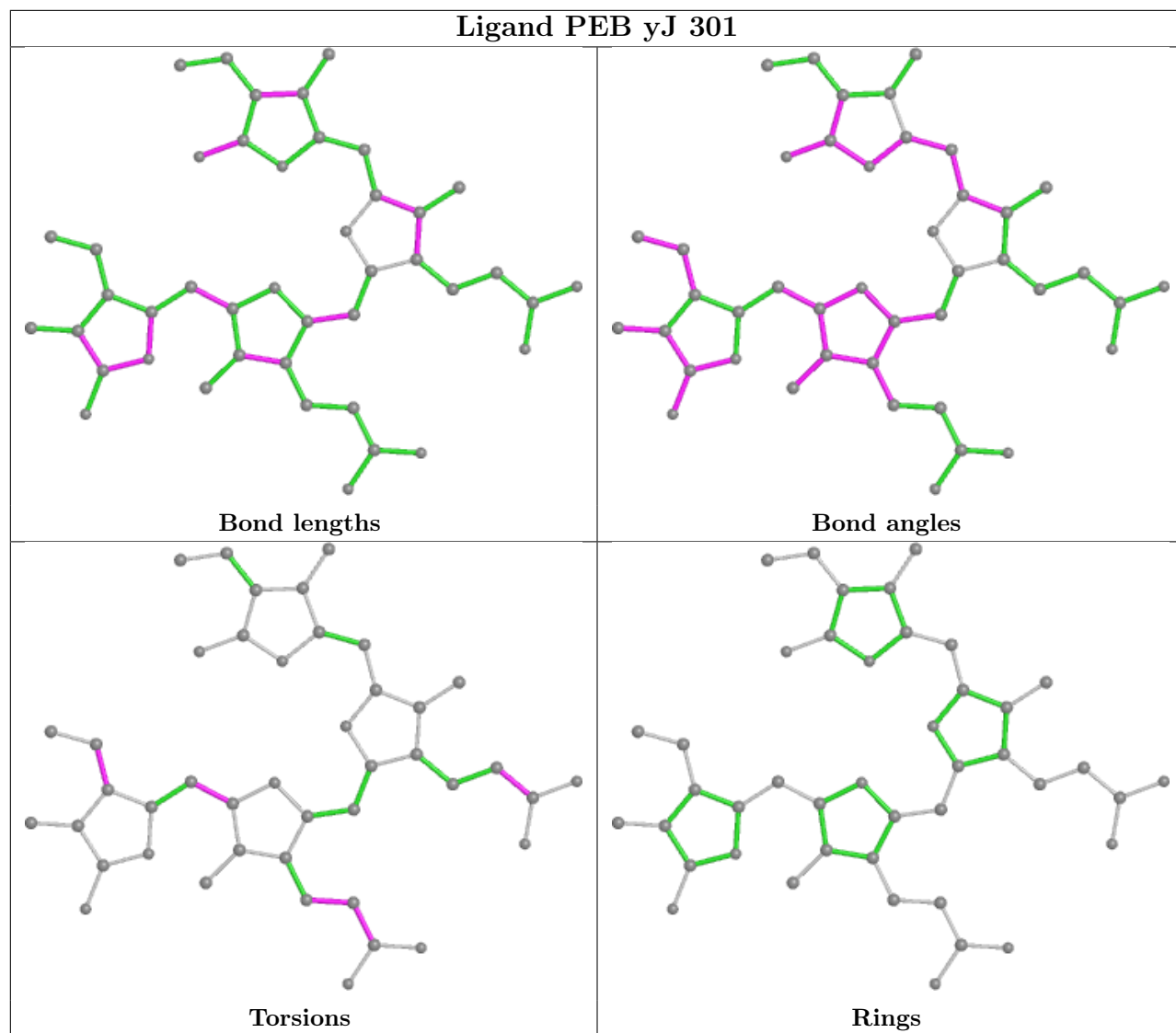
Rings



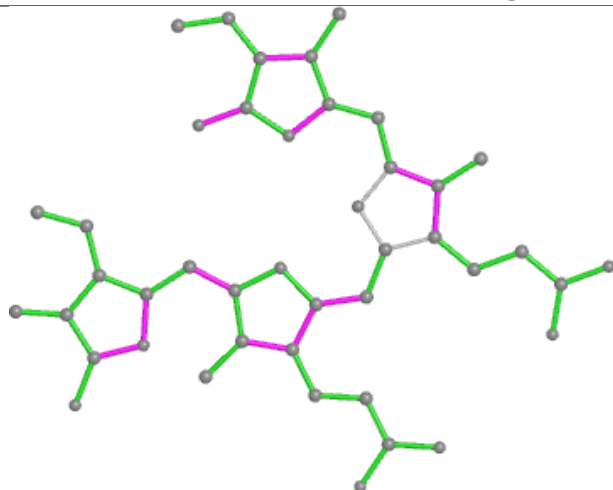




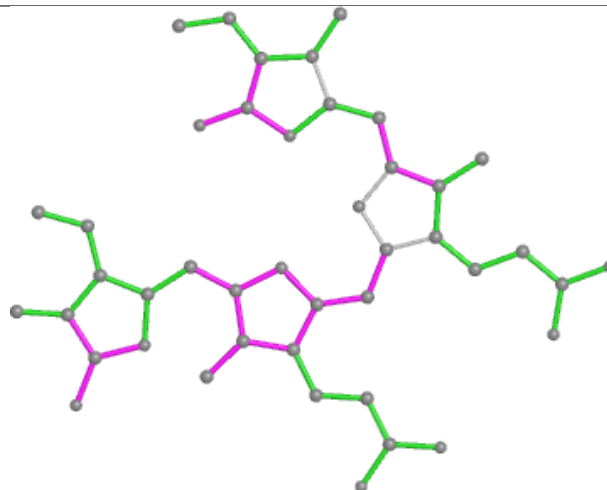




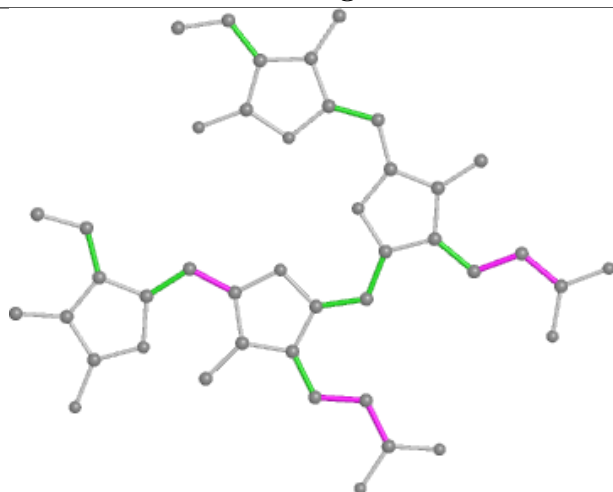
Ligand PEB EC 202



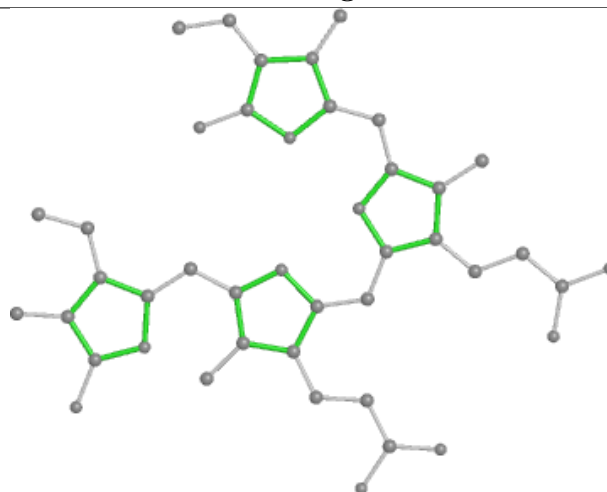
Bond lengths



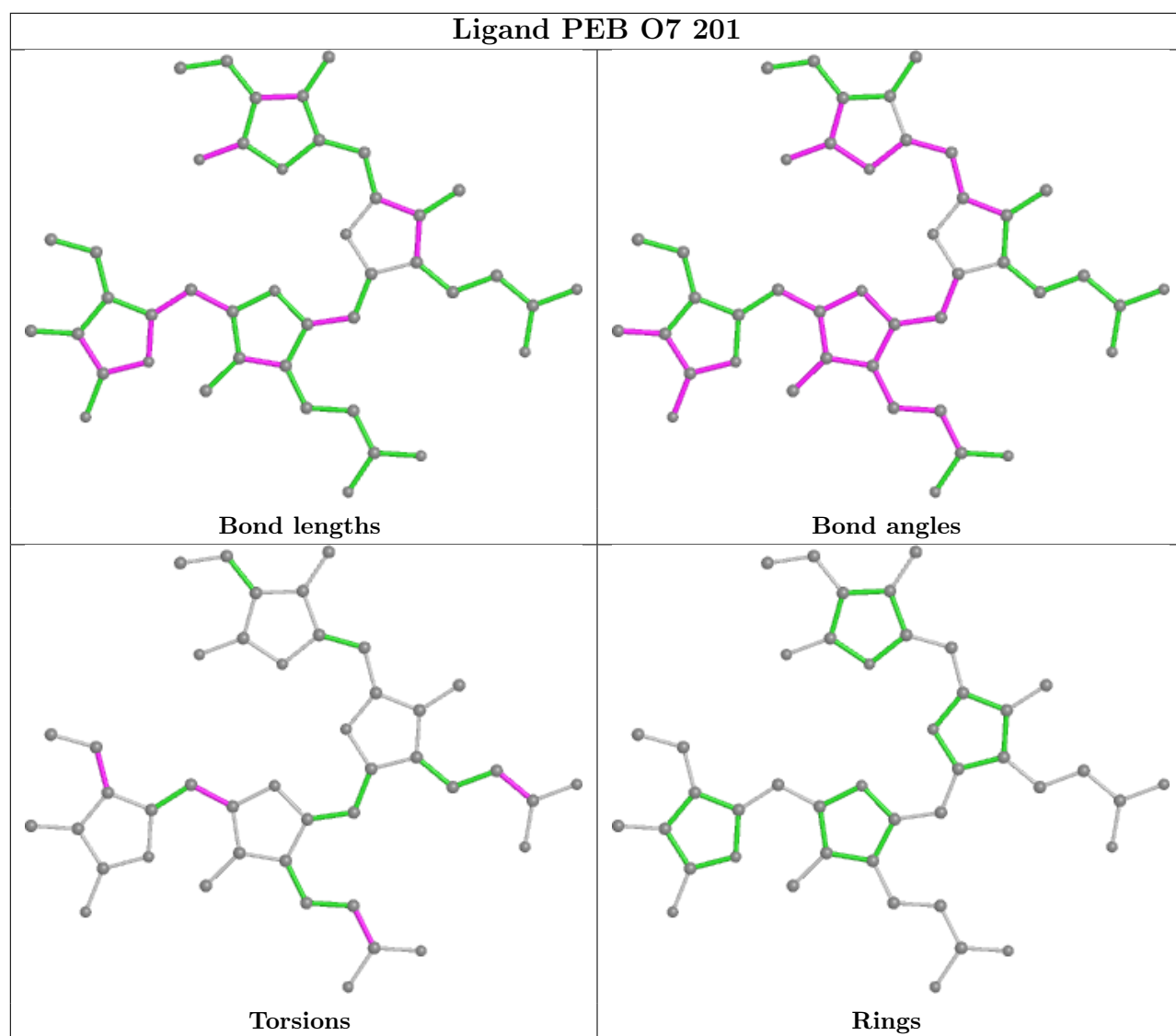
Bond angles



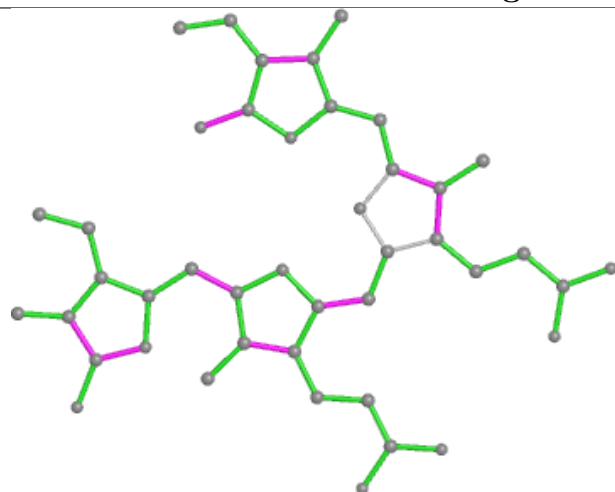
Torsions



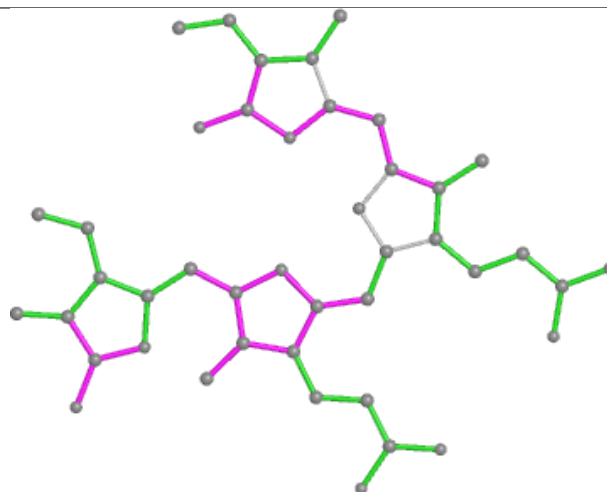
Rings



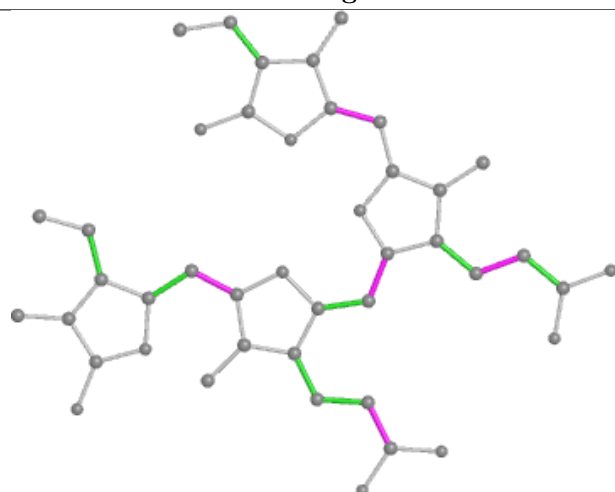
Ligand PEB HC 203



Bond lengths



Bond angles

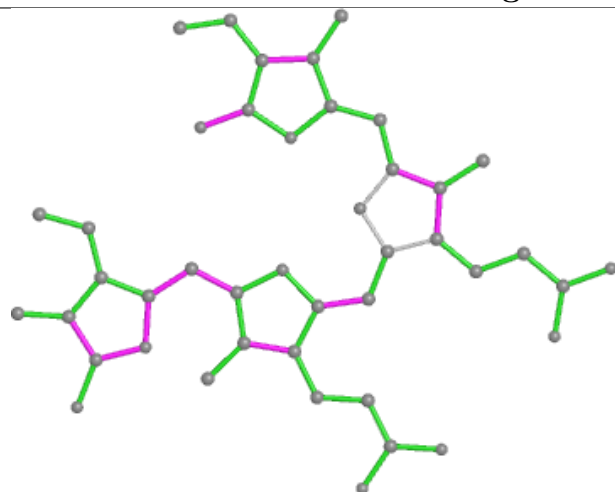


Torsions

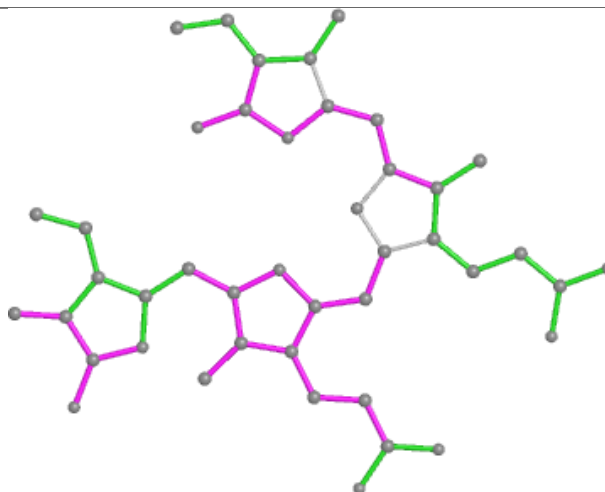


Rings

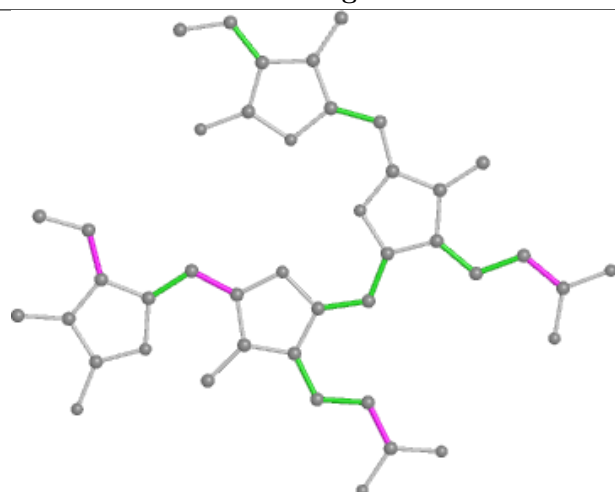
Ligand PEB W9 201



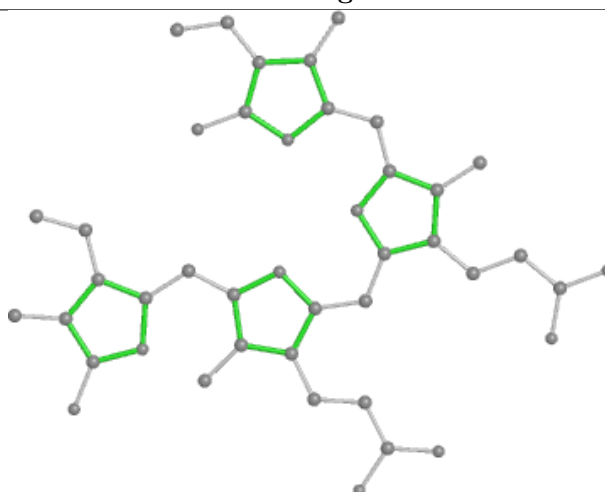
Bond lengths



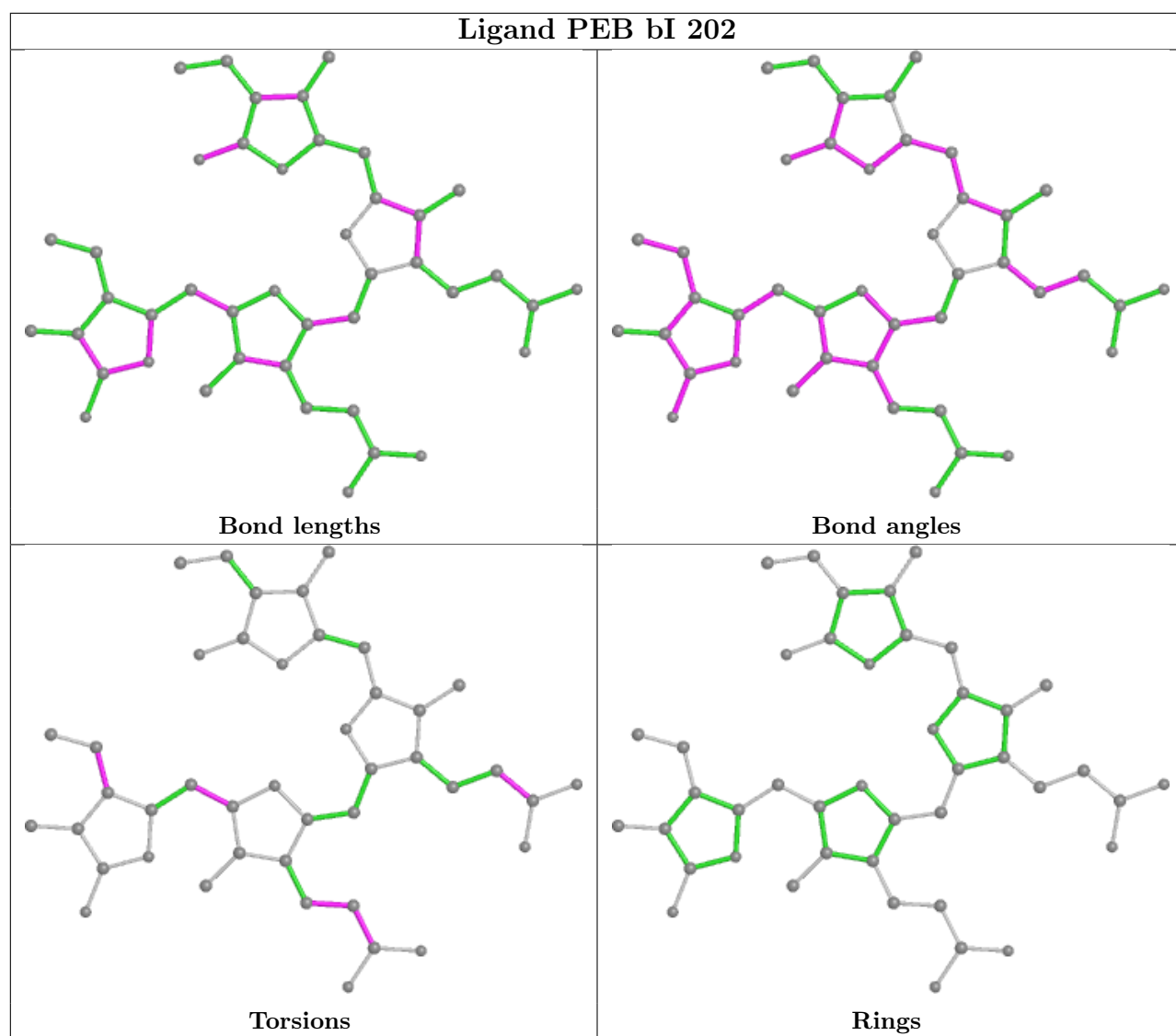
Bond angles

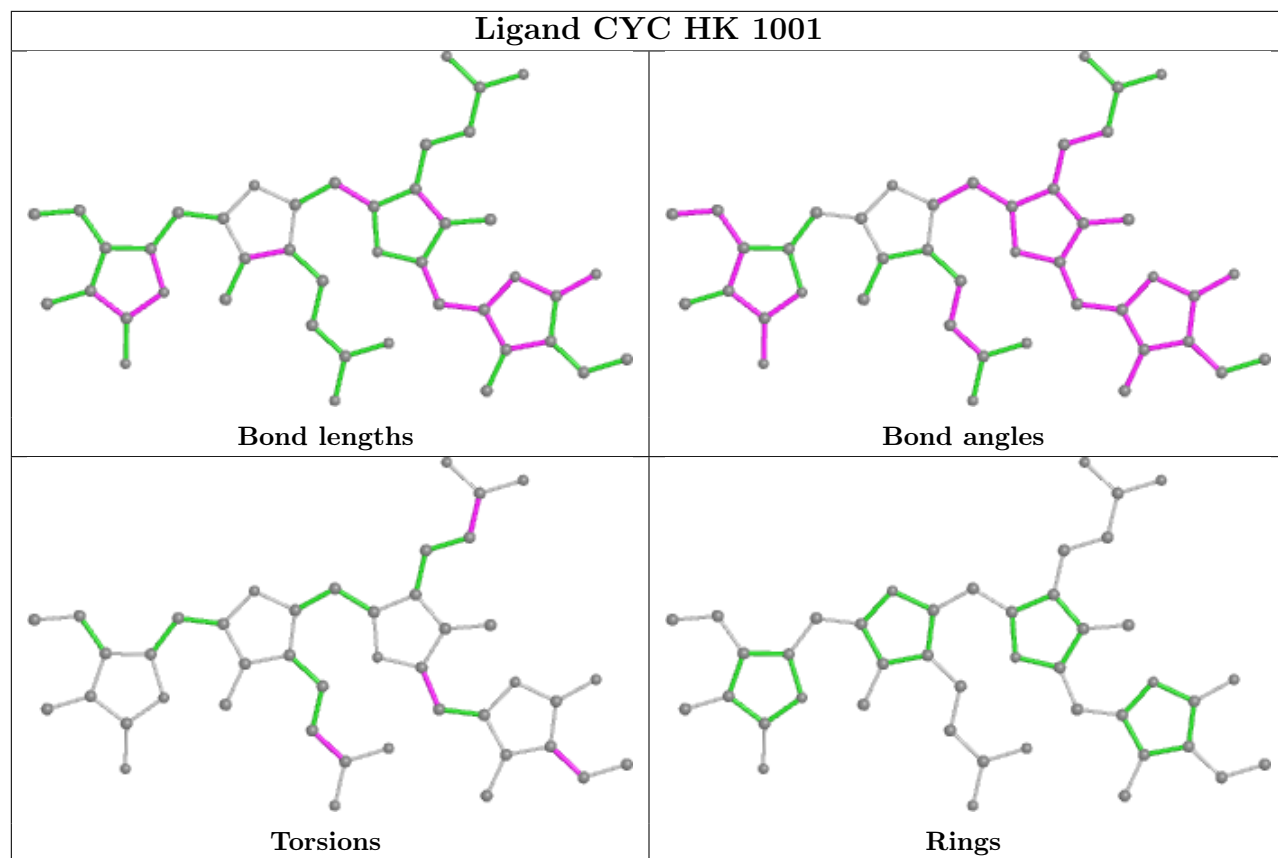


Torsions

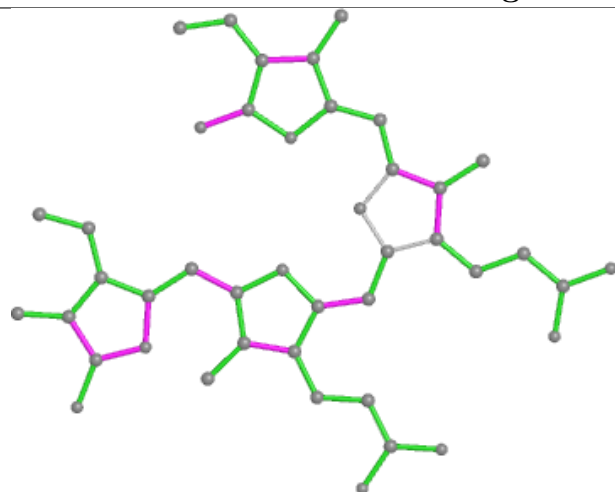


Rings

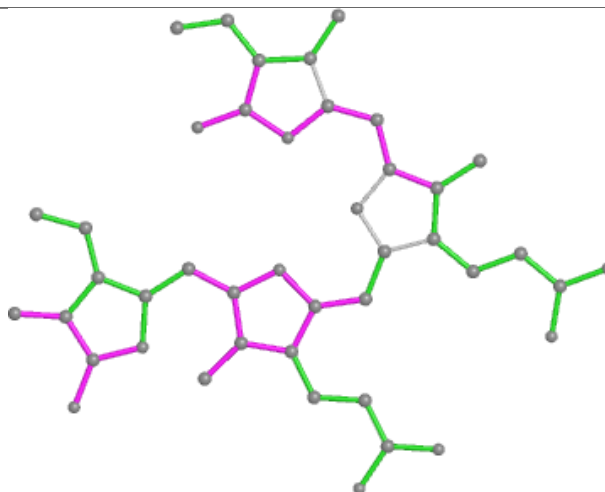




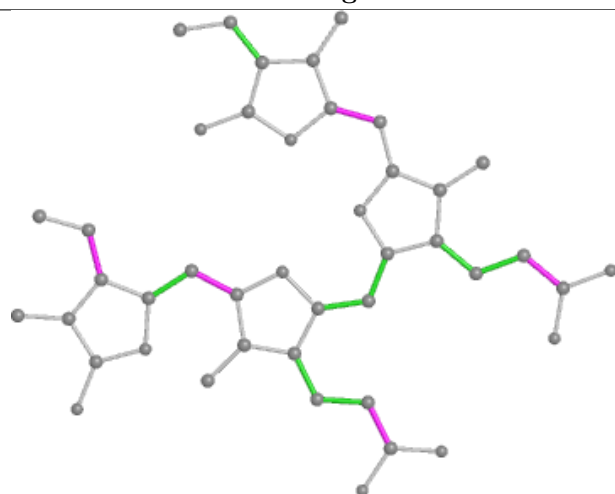
Ligand PEB KA 201



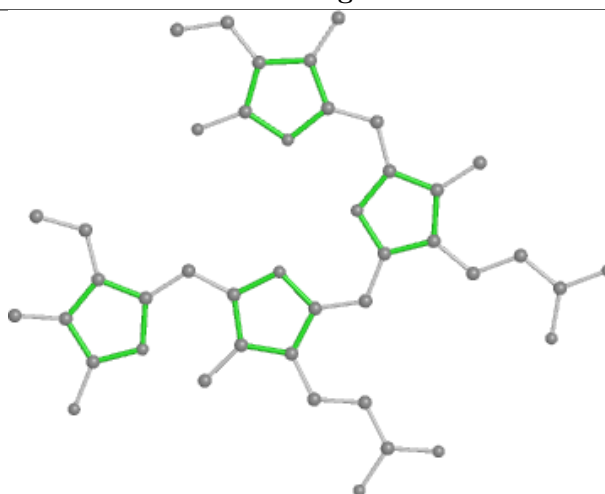
Bond lengths



Bond angles

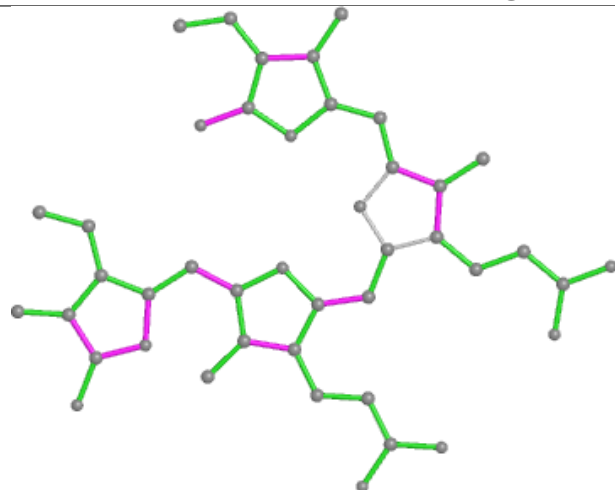


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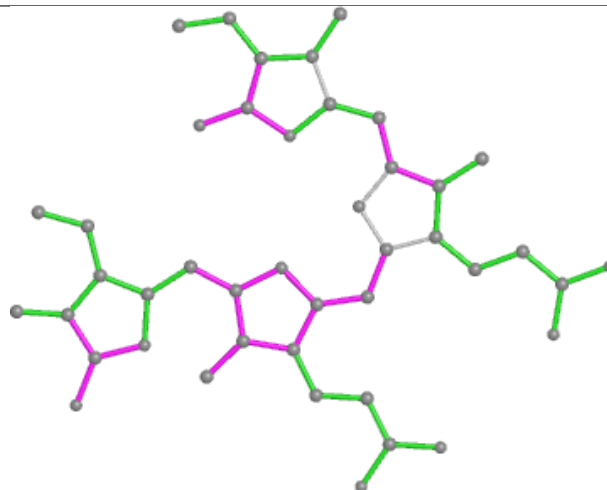


Rings

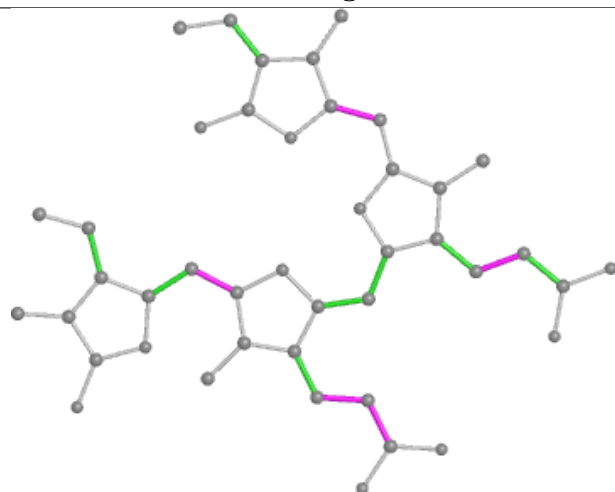
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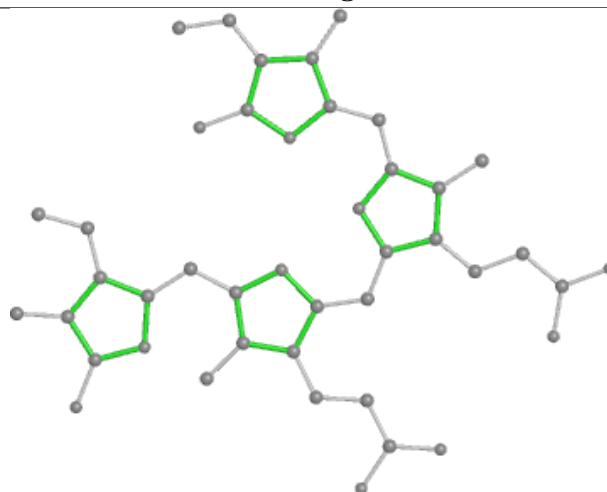
Bond lengths



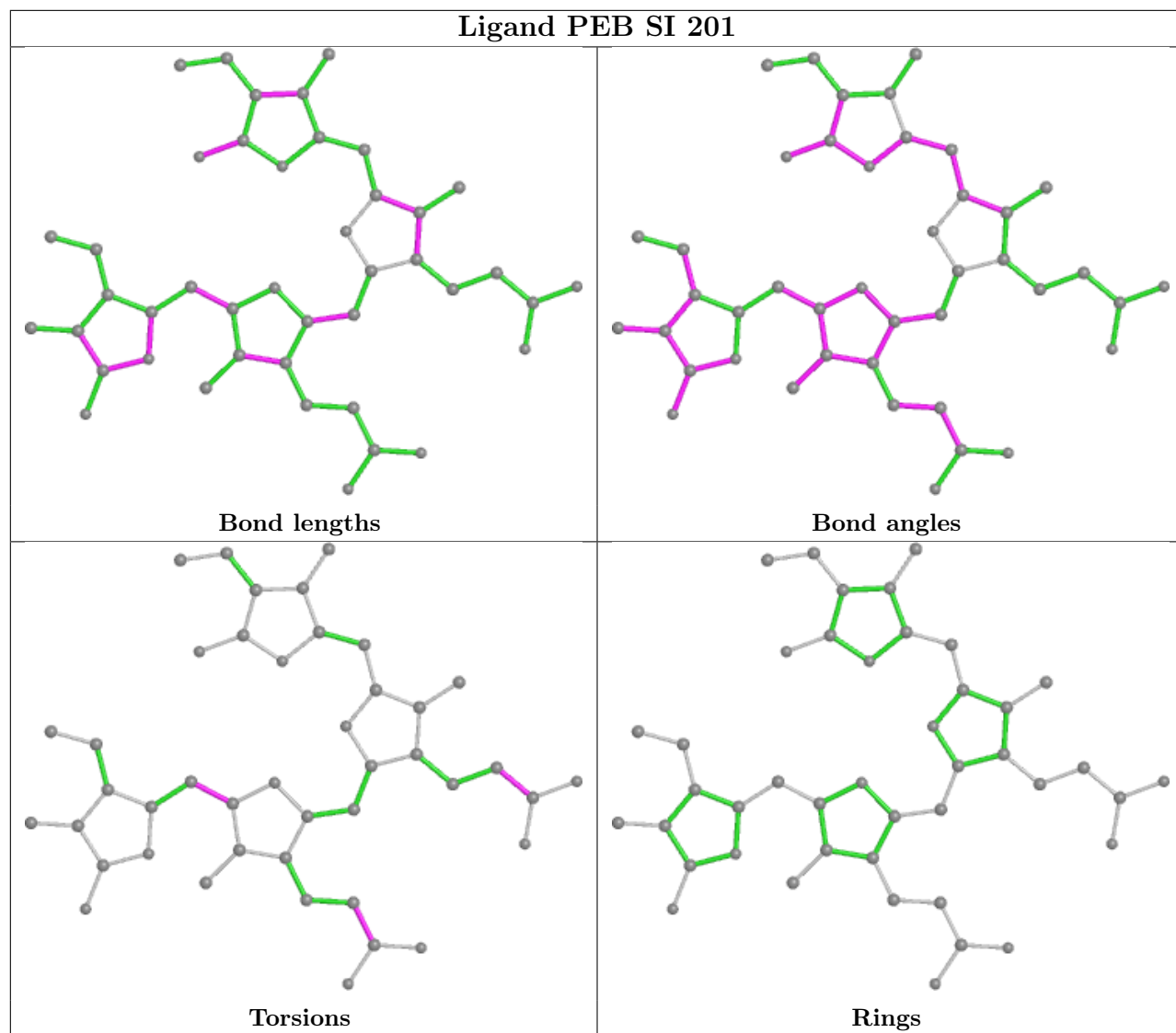
Bond angles



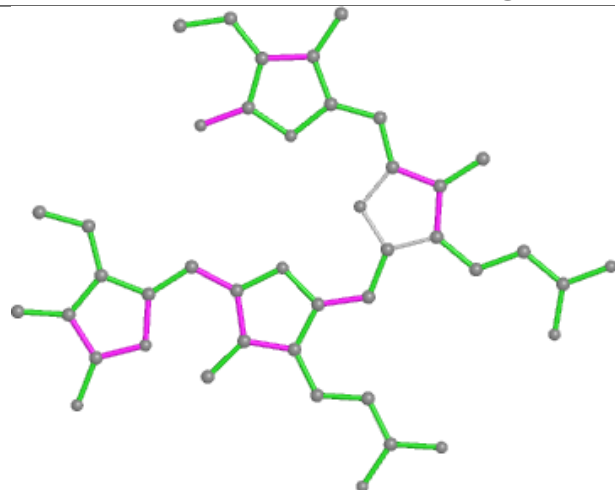
Torsions



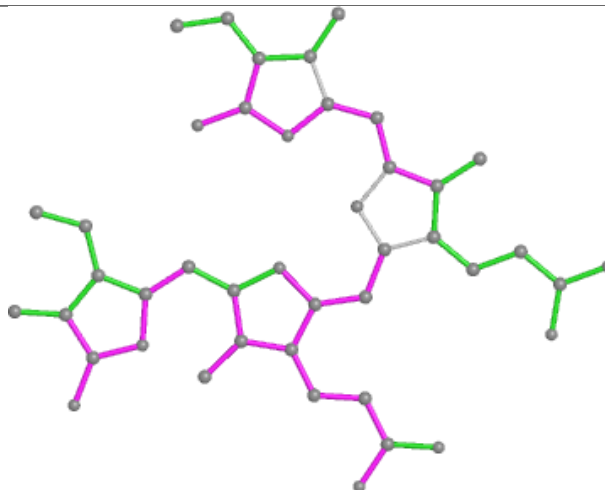
Rings



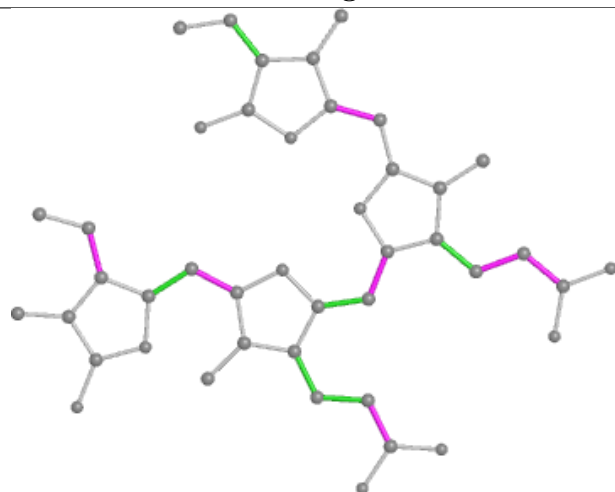
Ligand PEB XM 202



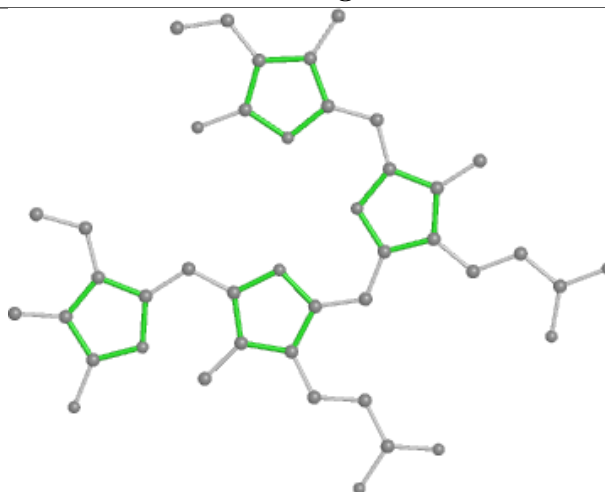
Bond lengths



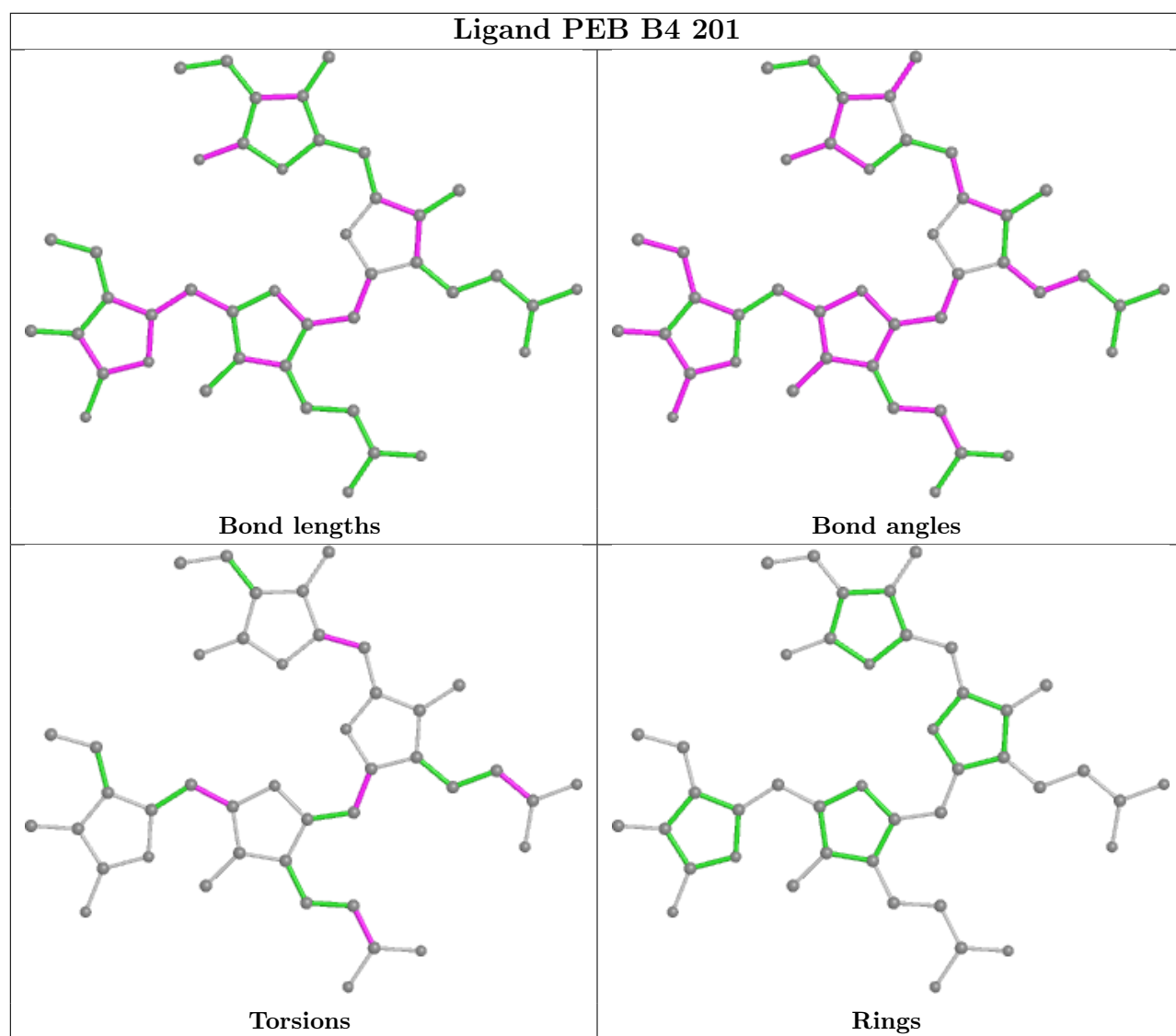
Bond angles



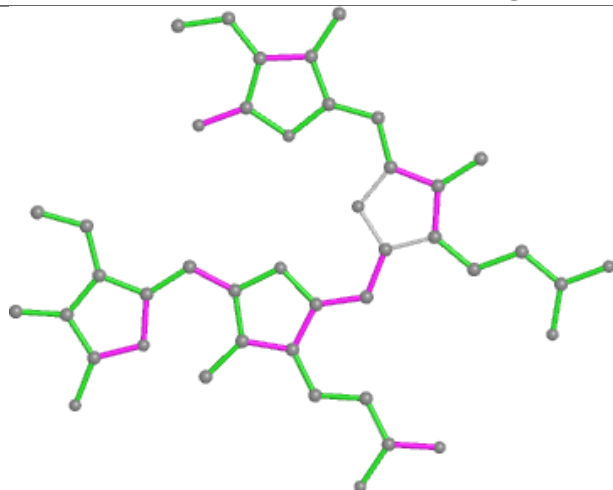
Torsions



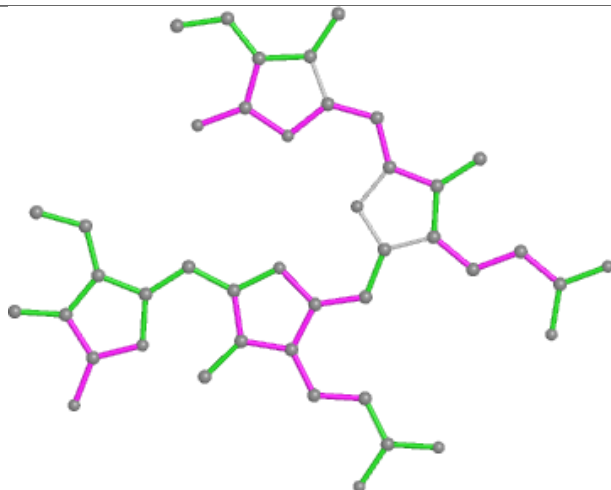
Rings



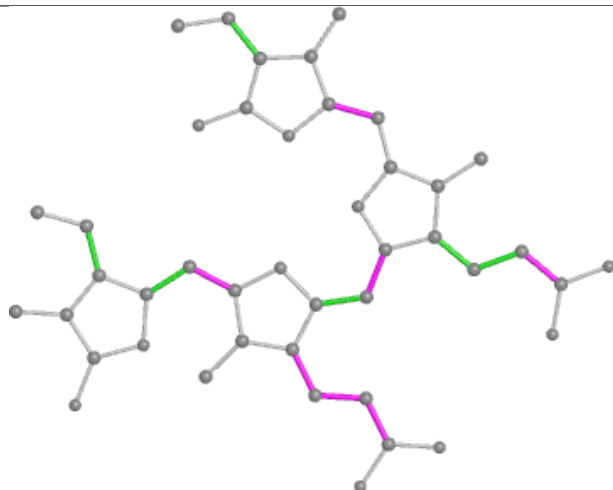
Ligand PEB Y9 203



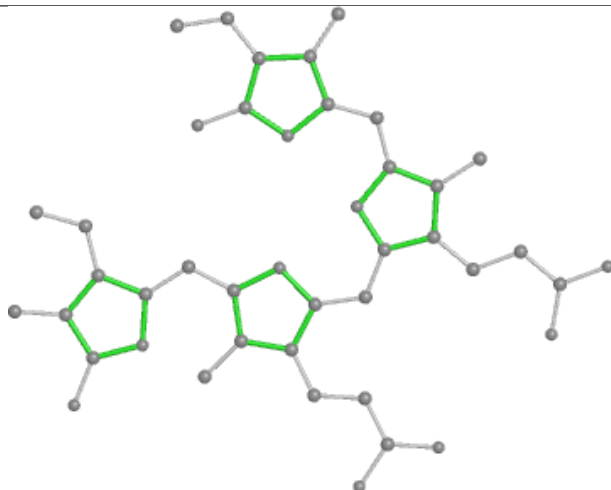
Bond lengths



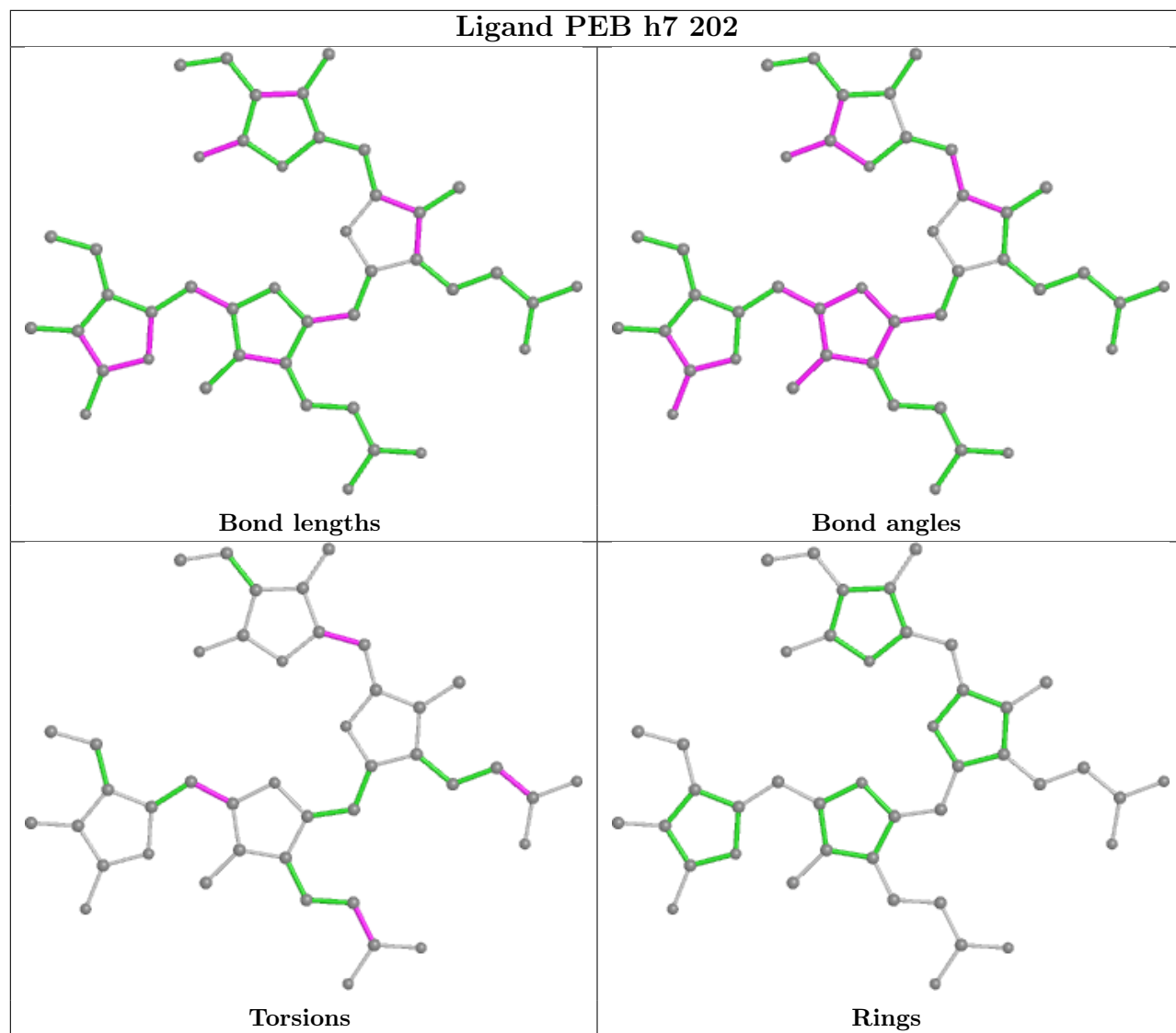
Bond angles



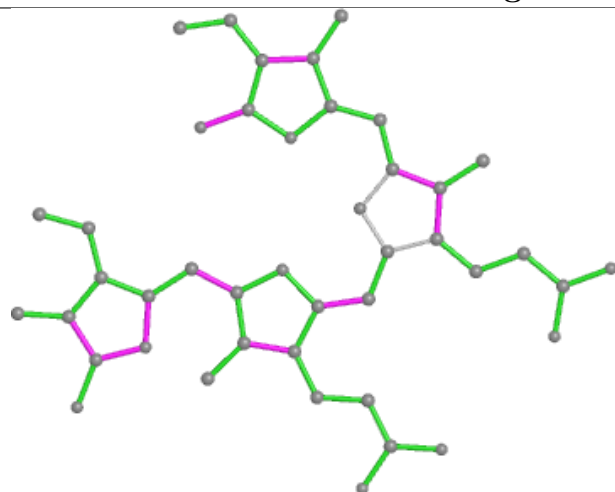
Torsions



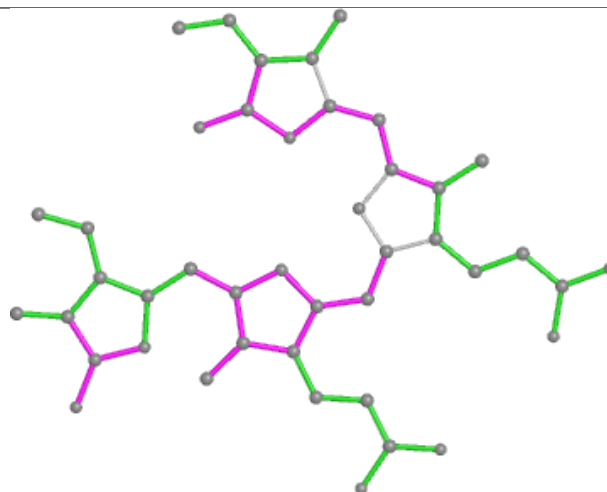
Rings



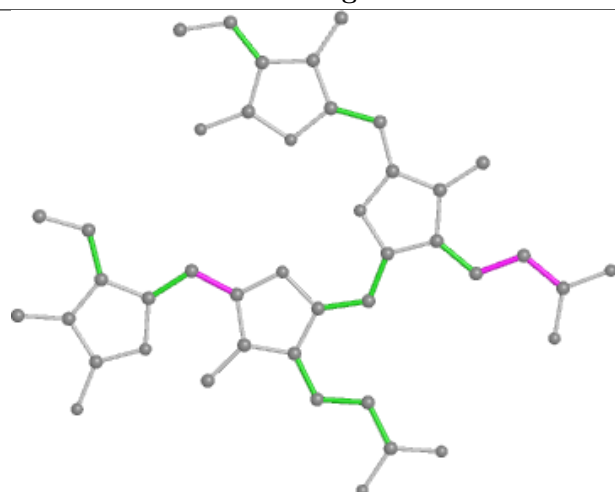
Ligand PEB CB 201



Bond lengths



Bond angles

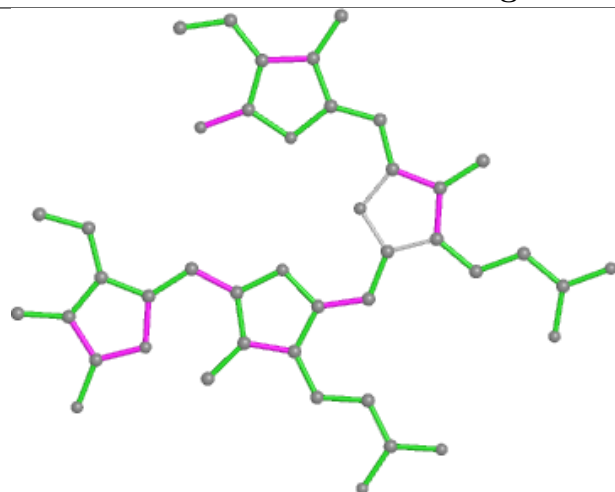


Torsions

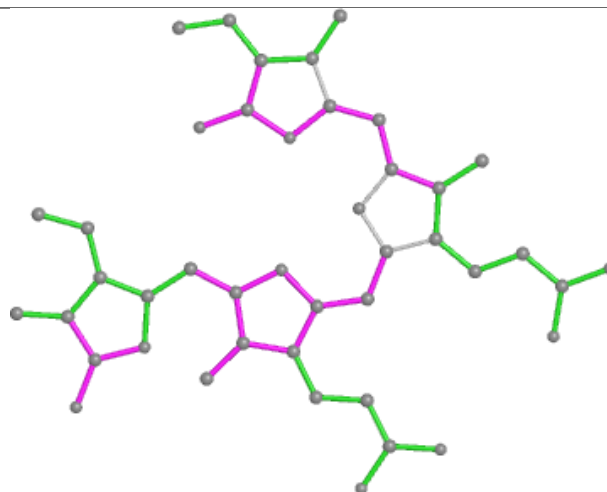


Rings

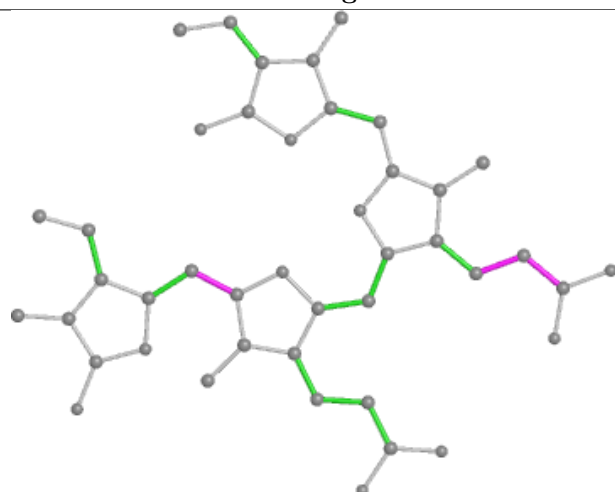
Ligand PEB MB 201



Bond lengths



Bond angles

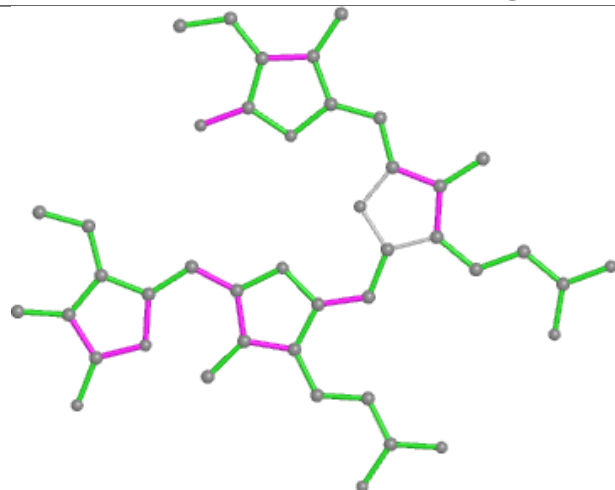


Torsions

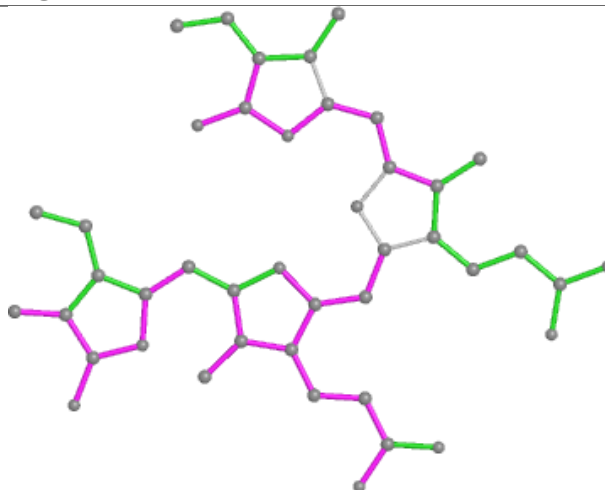


Rings

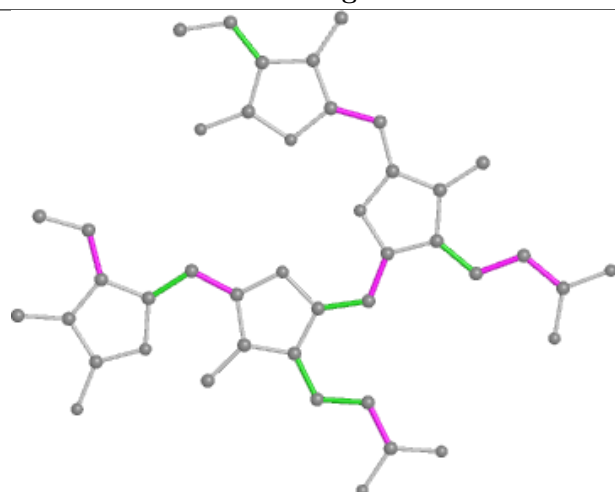
Ligand PEB gM 203



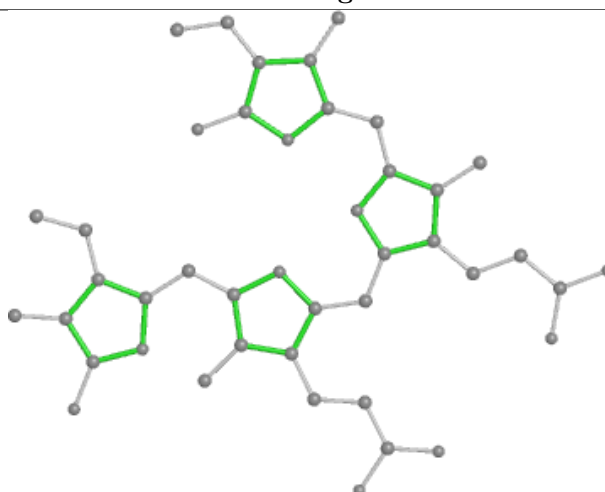
Bond lengths



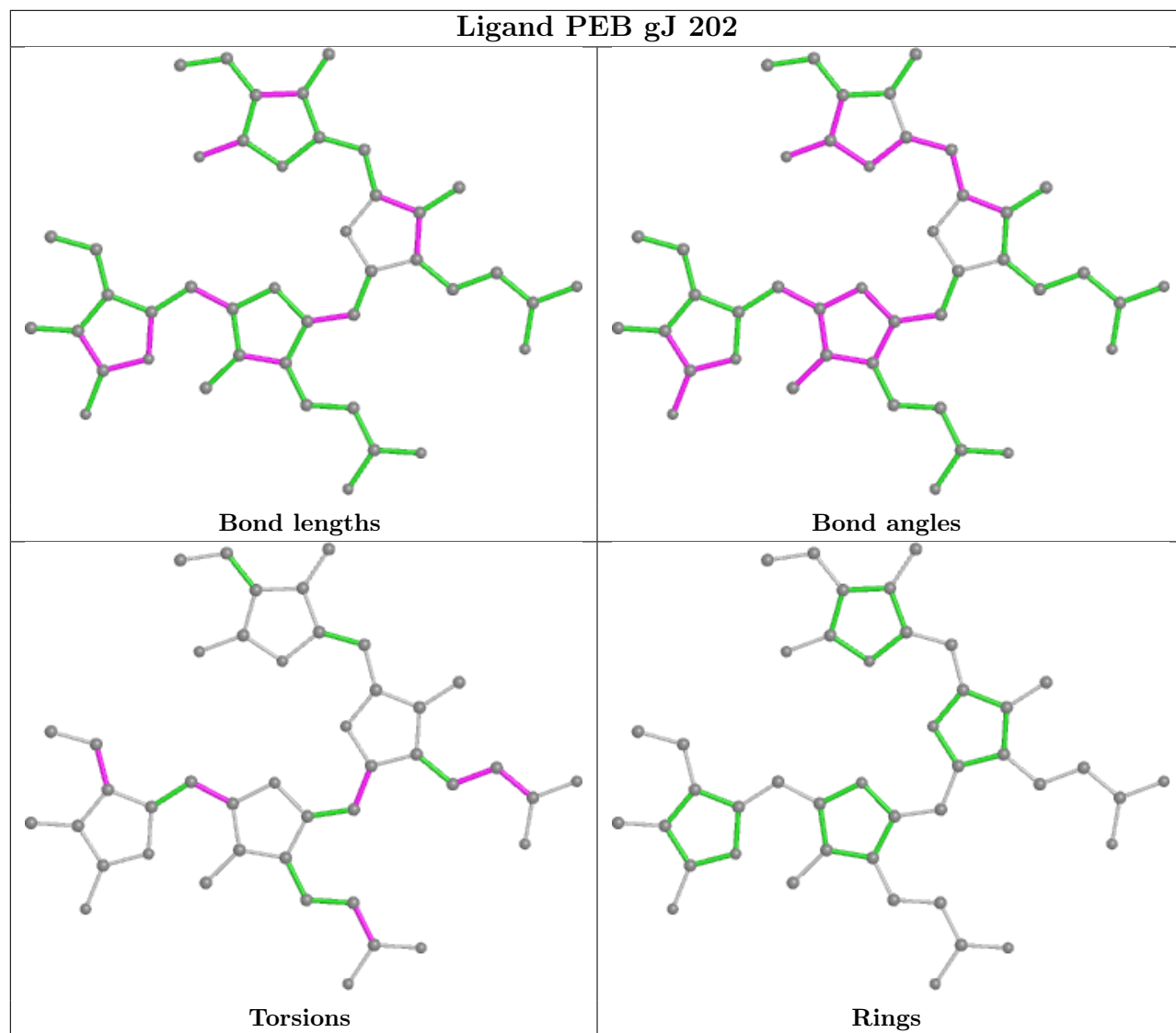
Bond angles



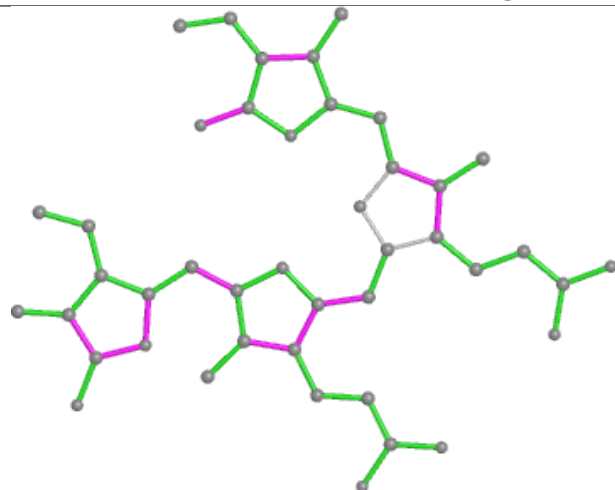
Torsions



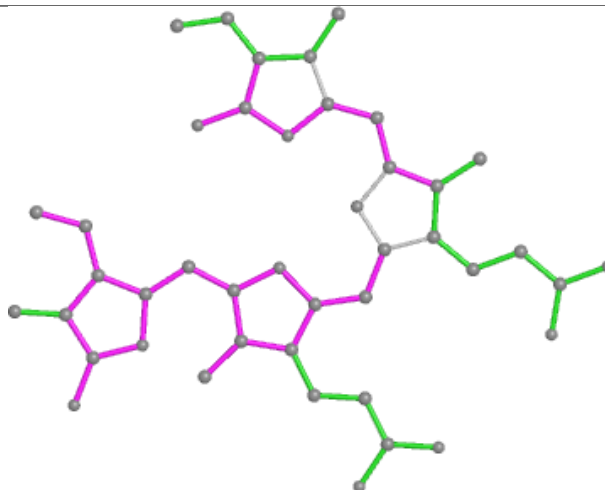
Rings



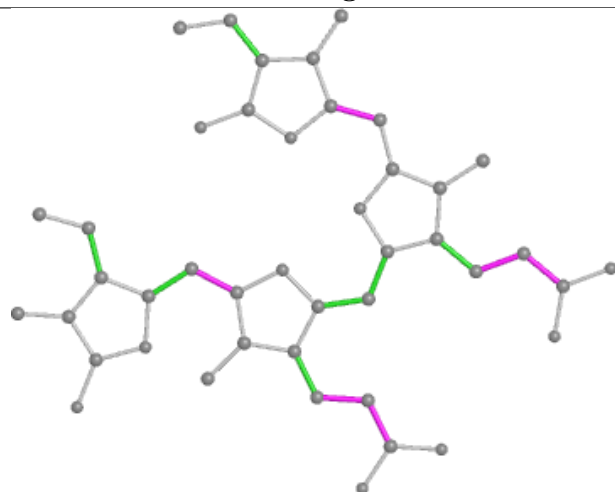
Ligand PEB AM 301



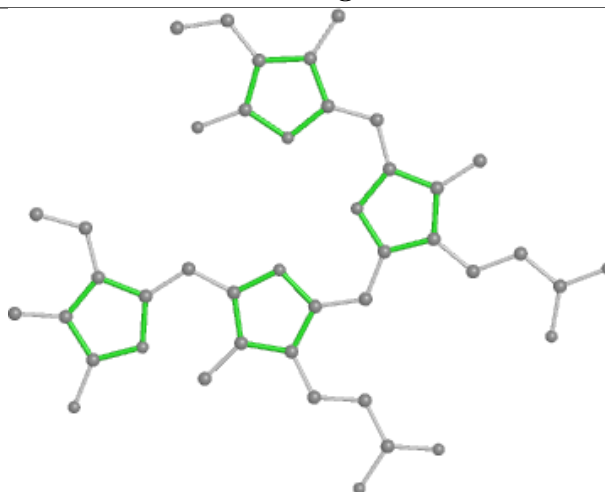
Bond lengths



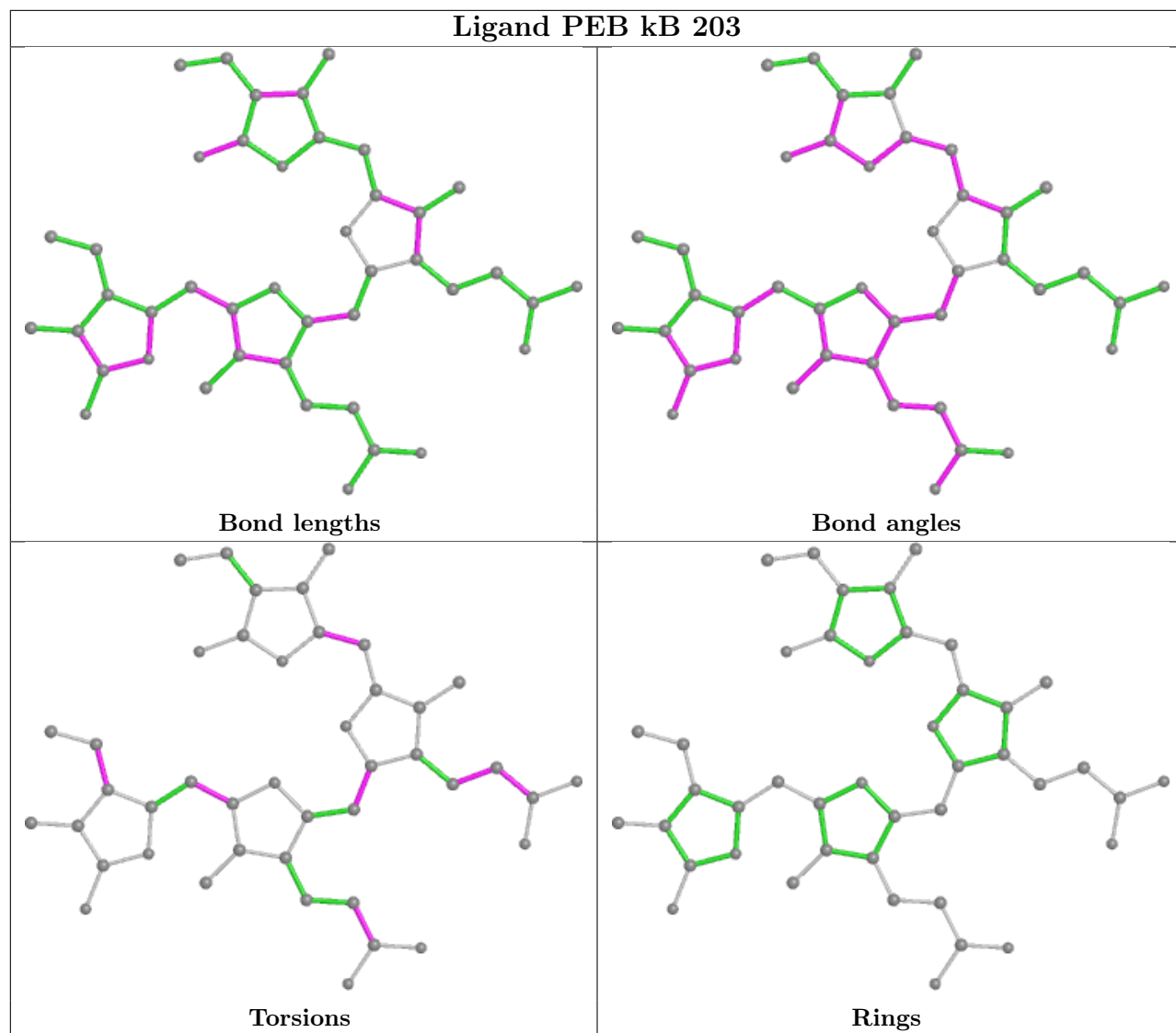
Bond angles



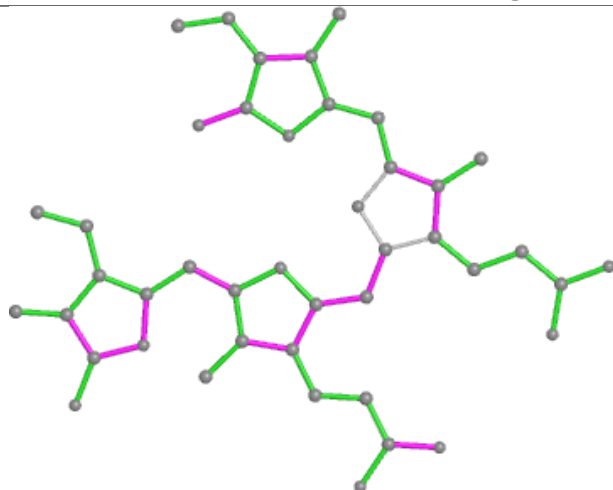
Torsions



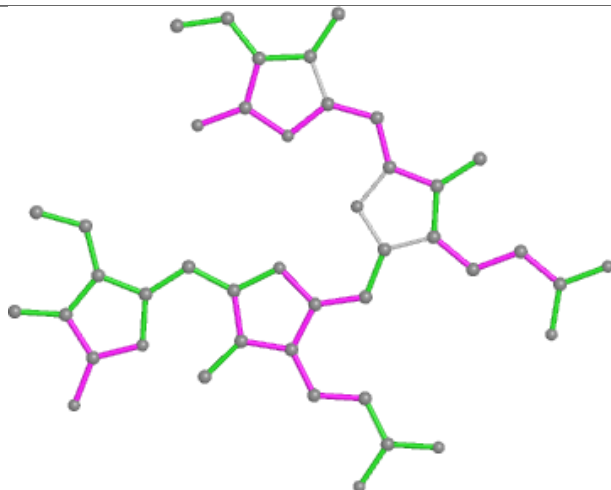
Rings



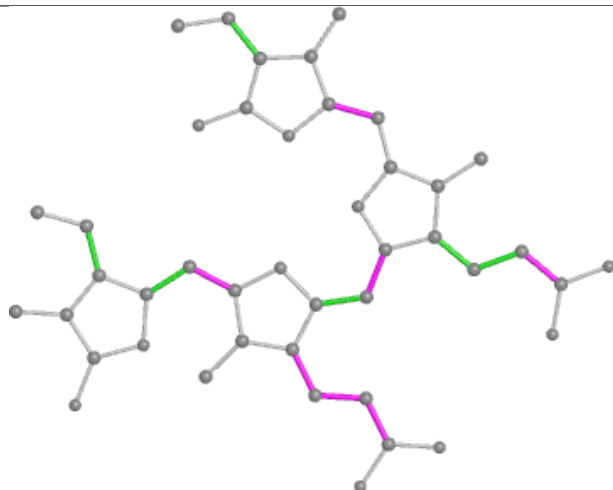
Ligand PEB T7 203



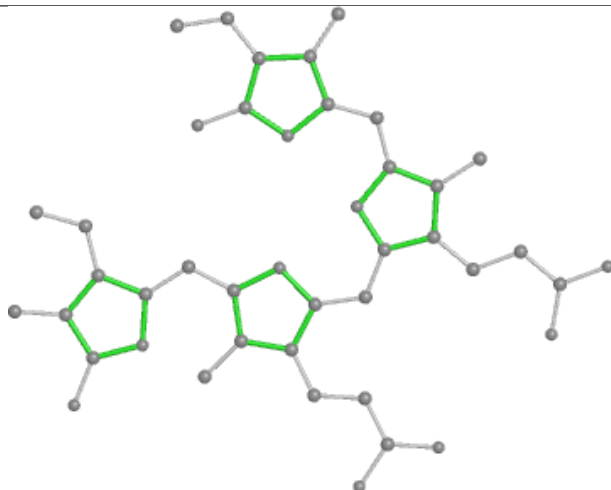
Bond lengths



Bond angles

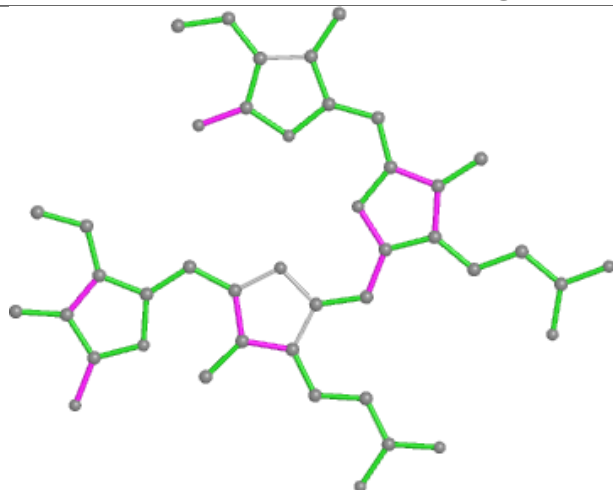


Torsions

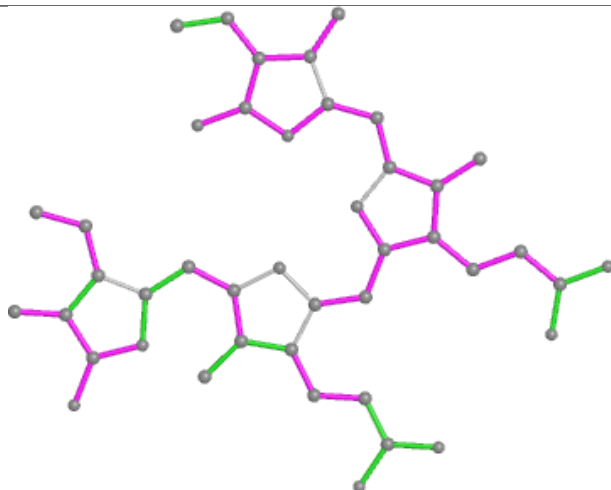


Rings

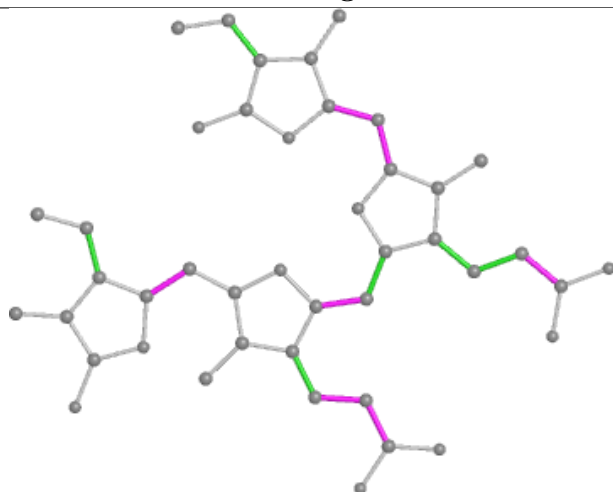
Ligand PUB AM 304



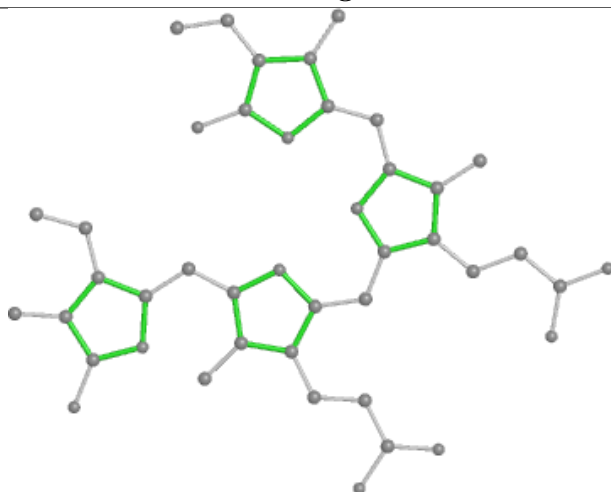
Bond lengths



Bond angles

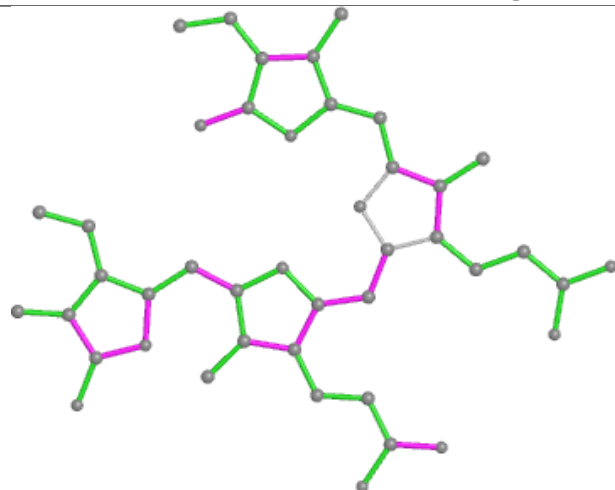


Torsions

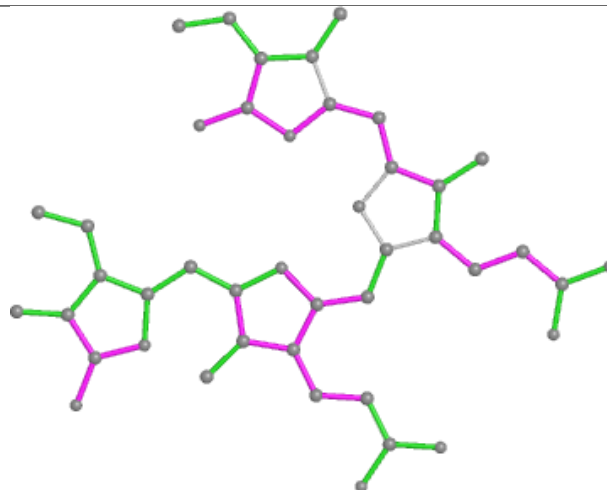


Rings

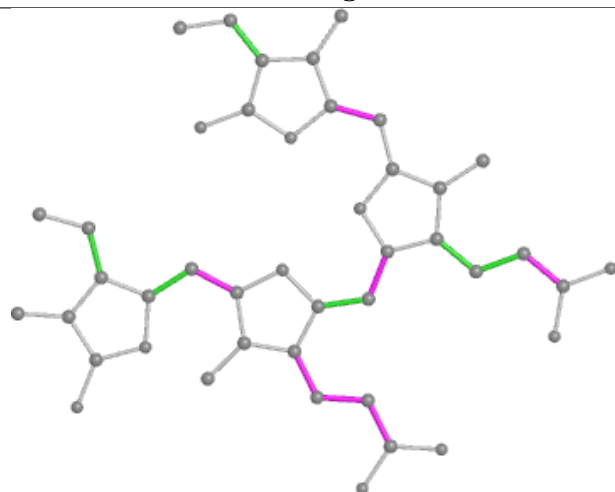
Ligand PEB R9 203



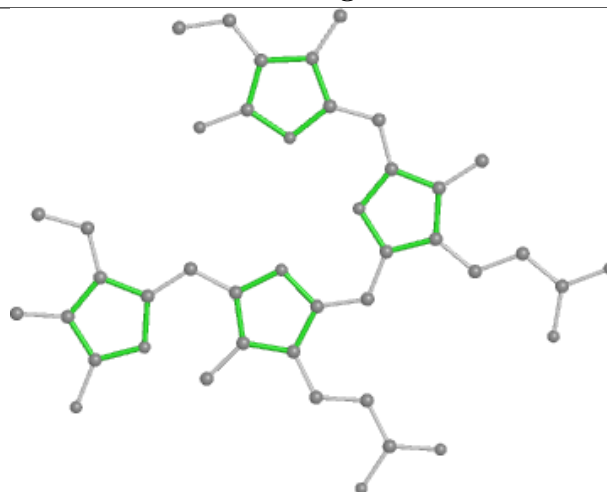
Bond lengths



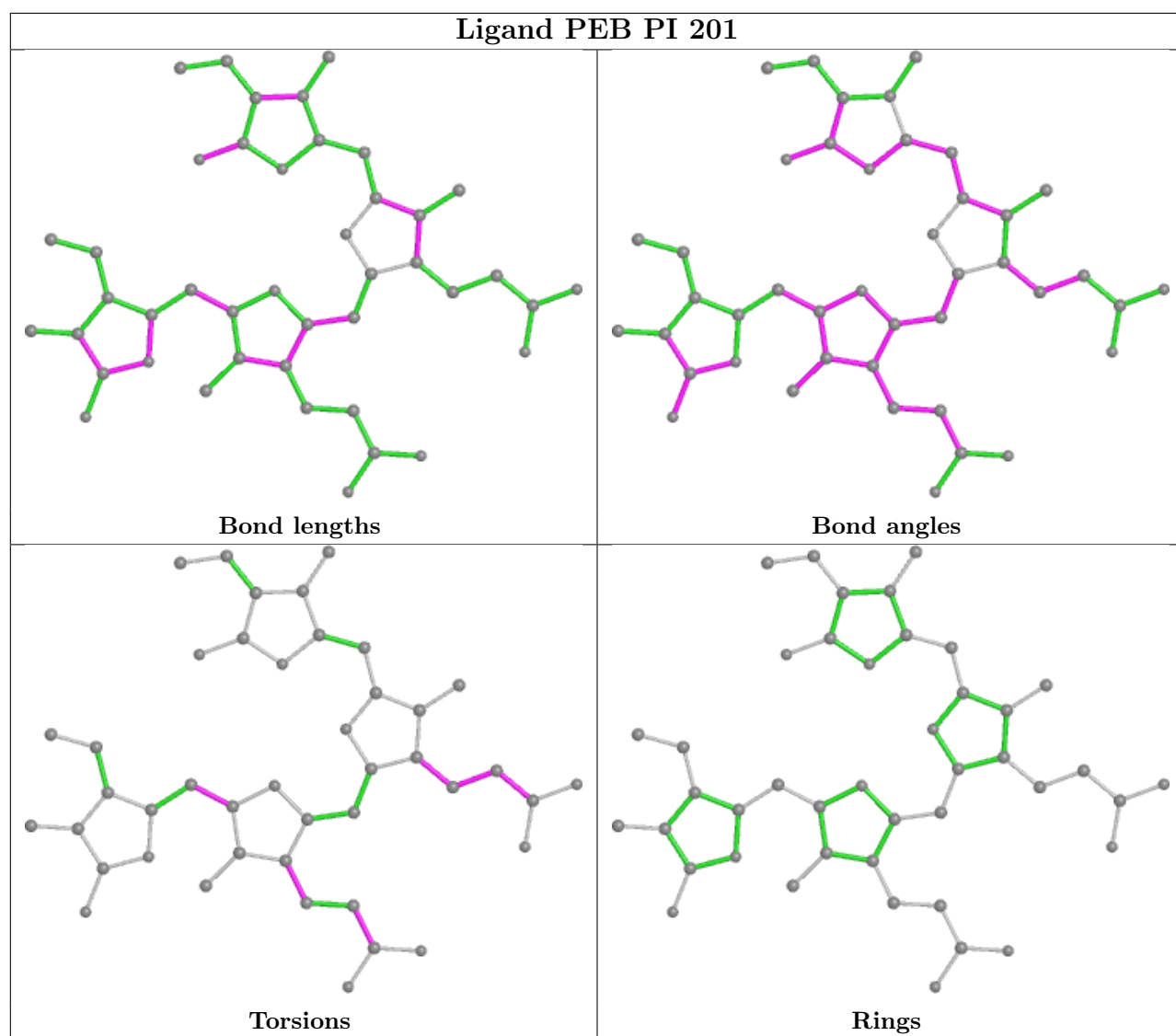
Bond angles



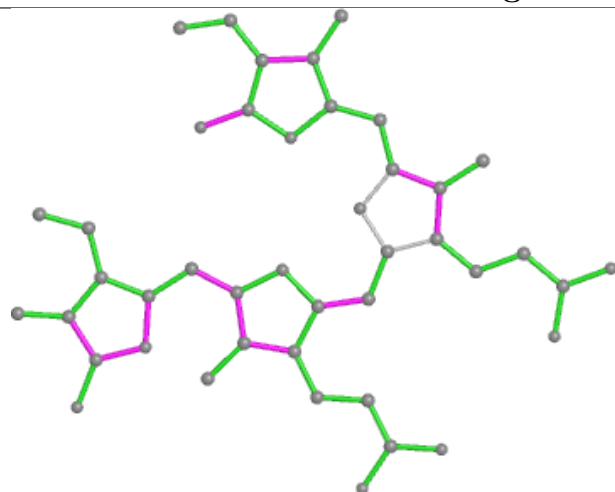
Torsions



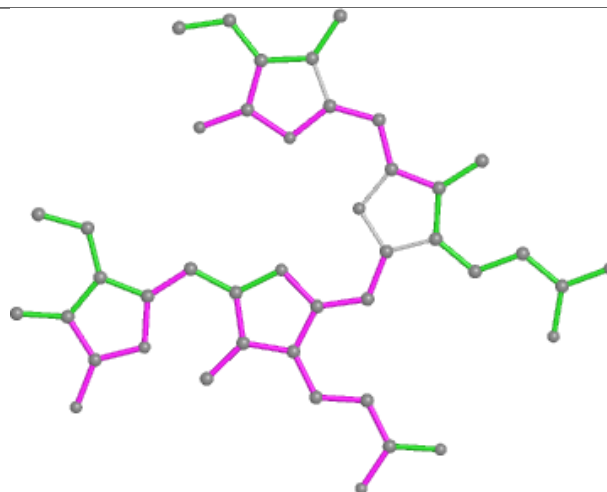
Rings



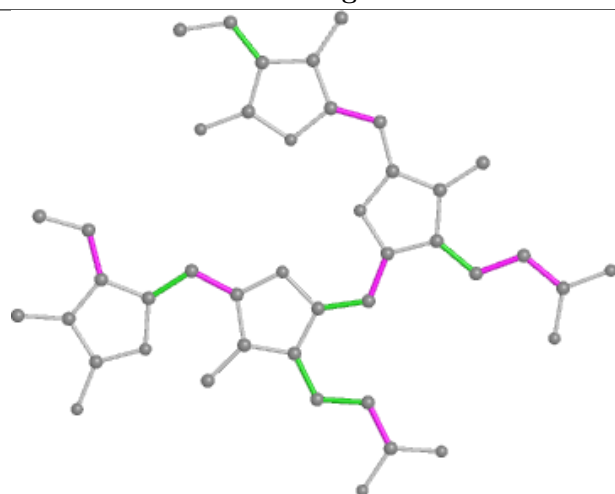
Ligand PEB kM 203



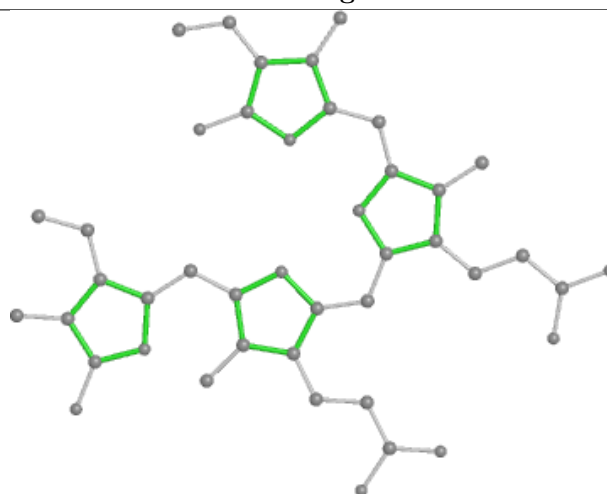
Bond lengths



Bond angles

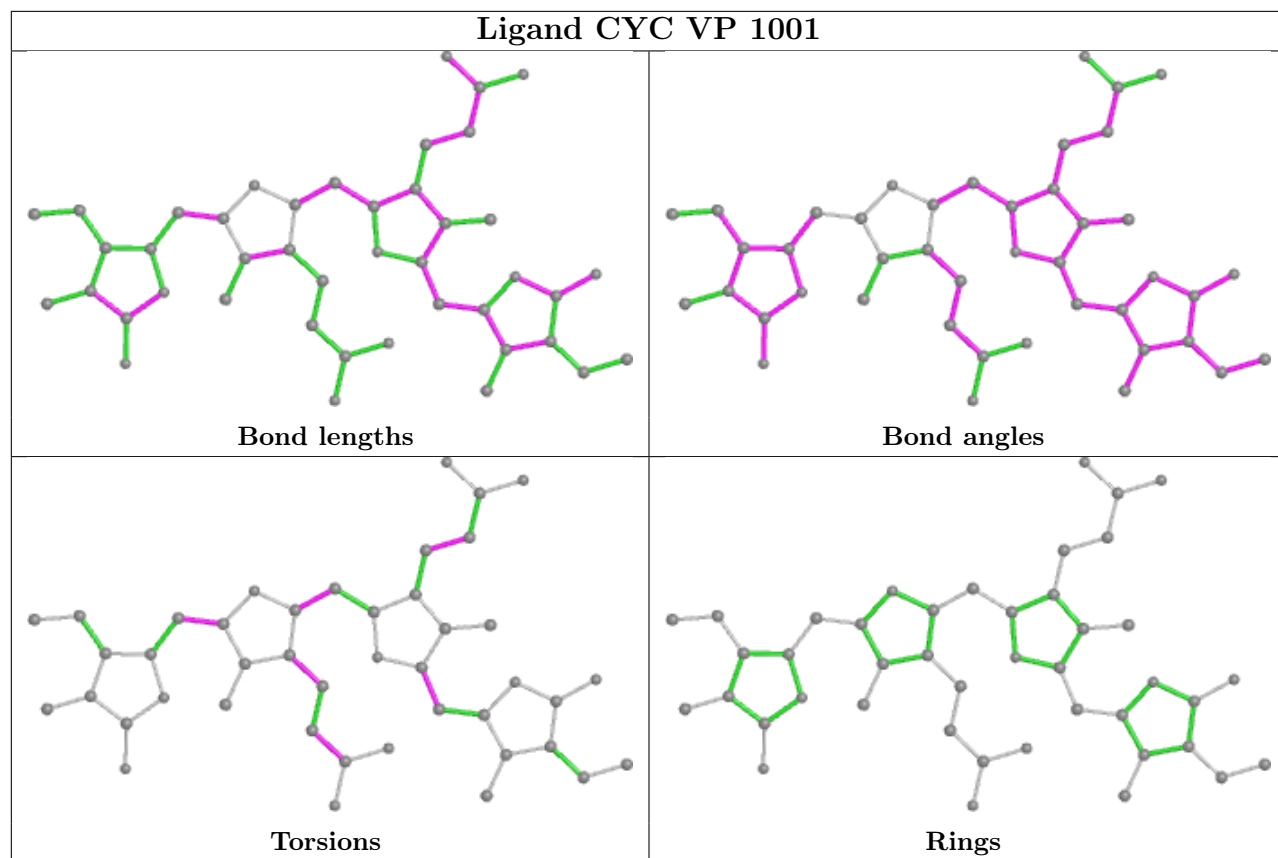


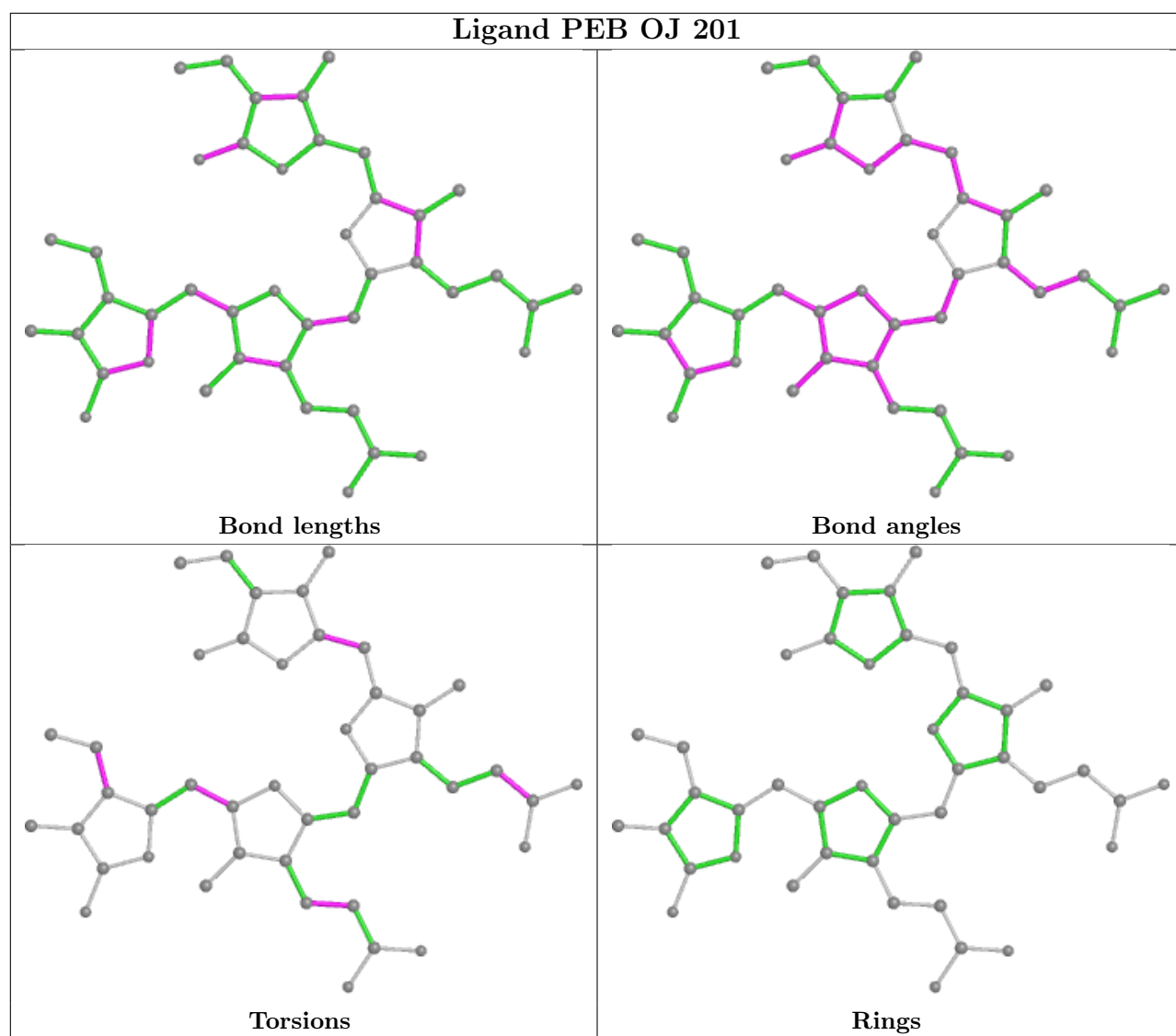
Torsions



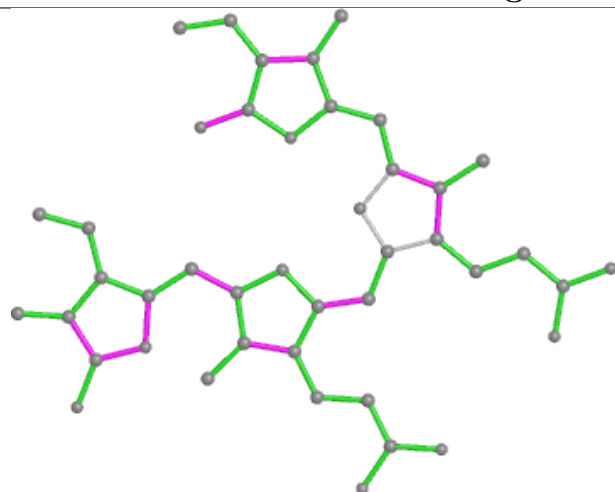
Rings

Ligand CYC VP 1001

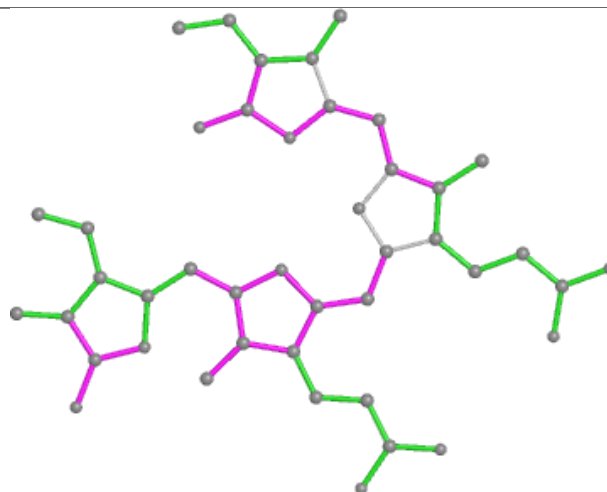




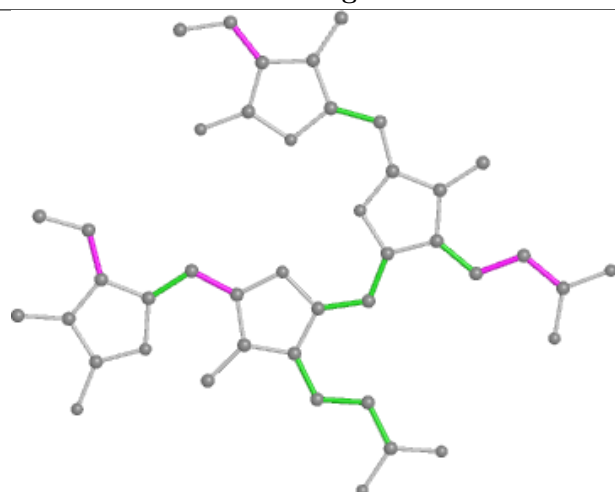
Ligand PEB AL 203



Bond lengths



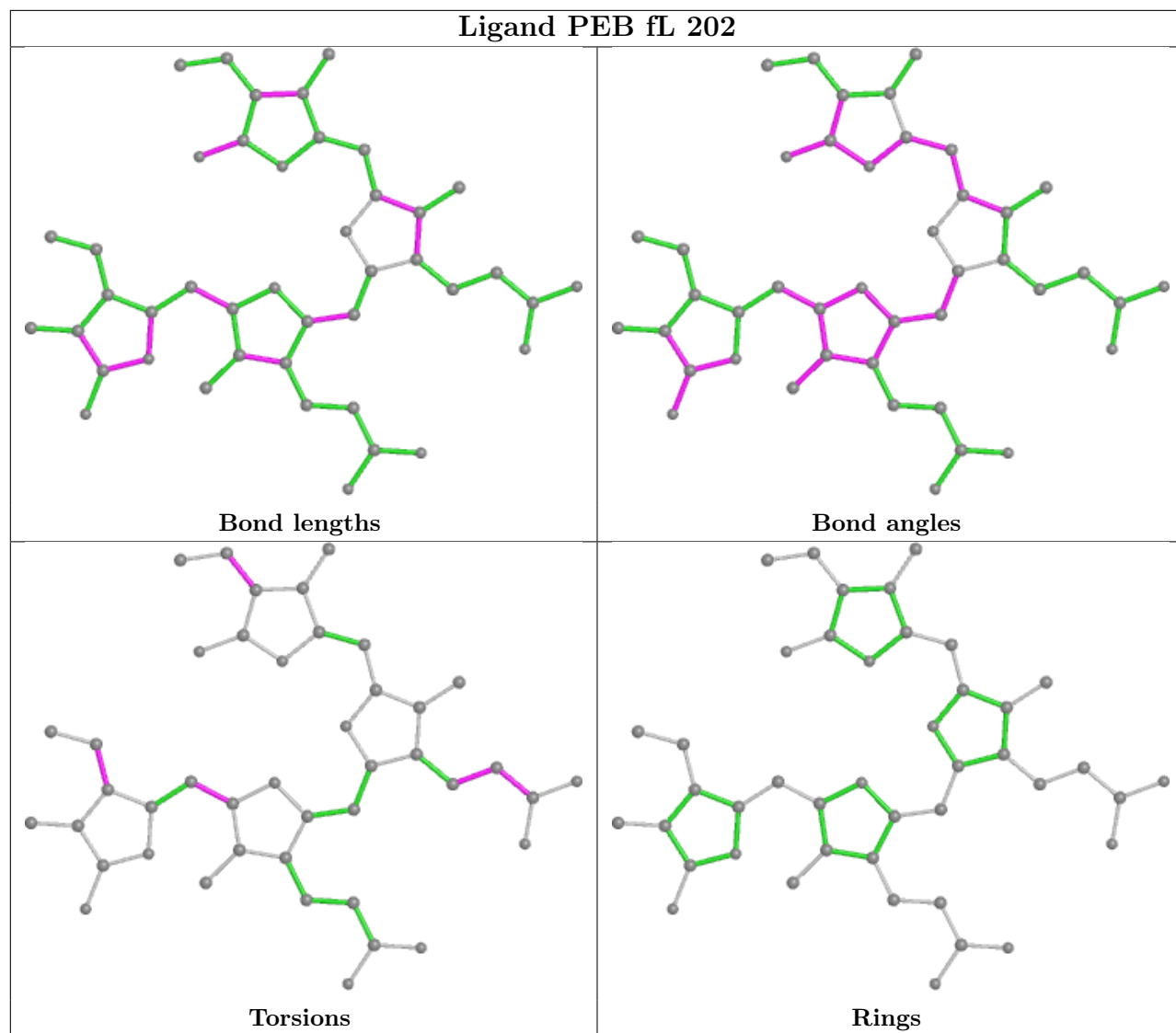
Bond angles

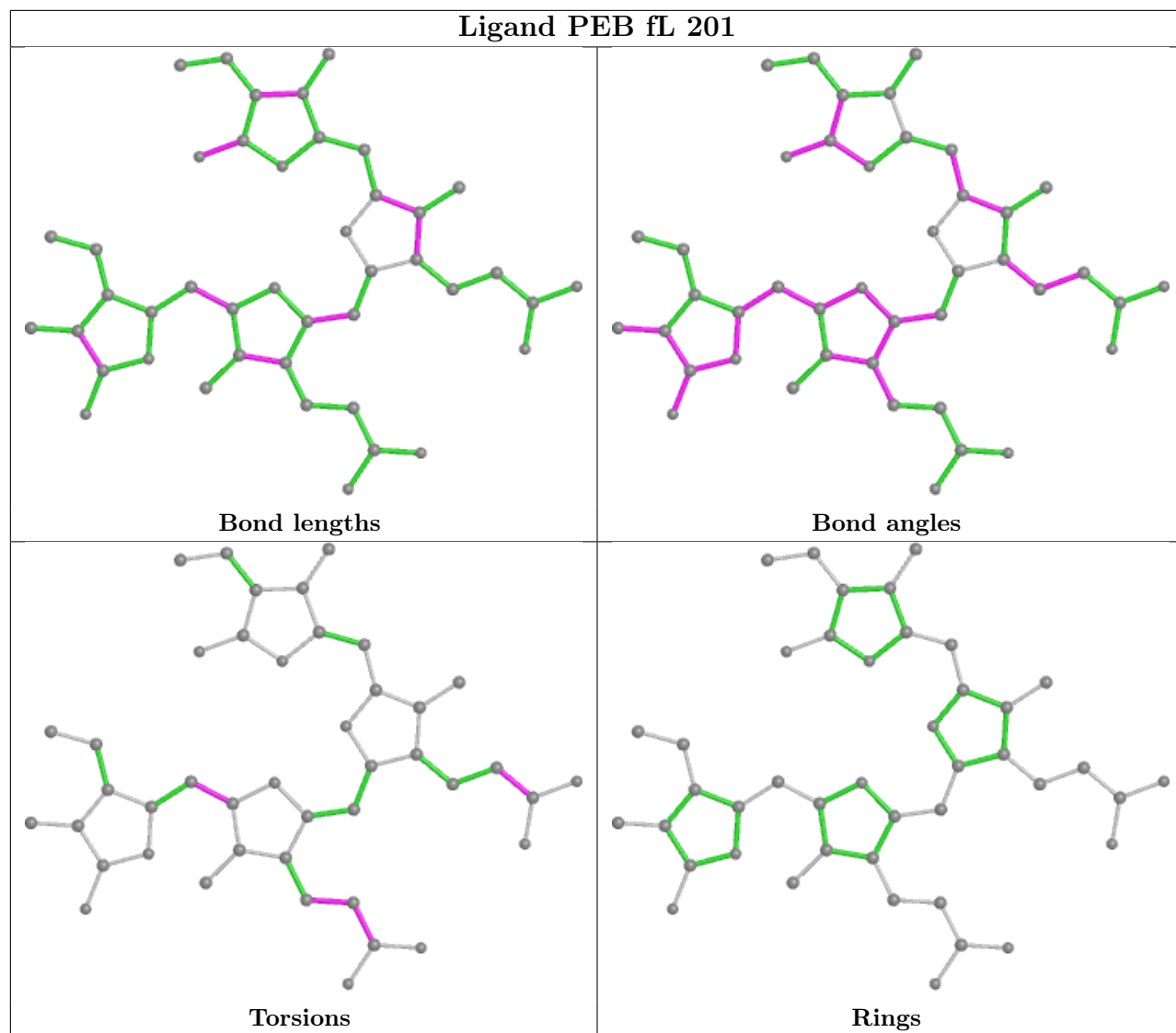


Torsions

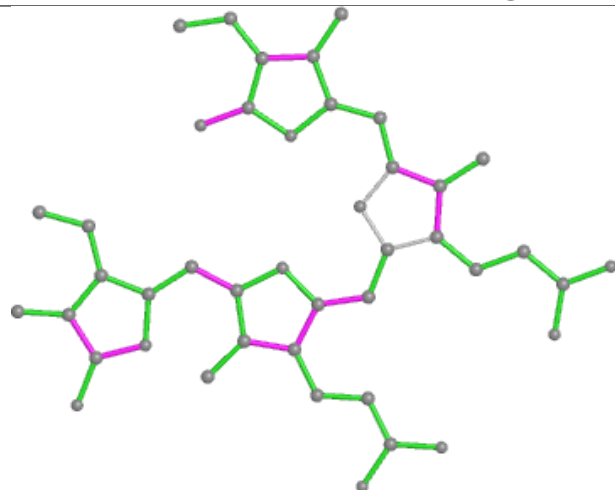


Rings

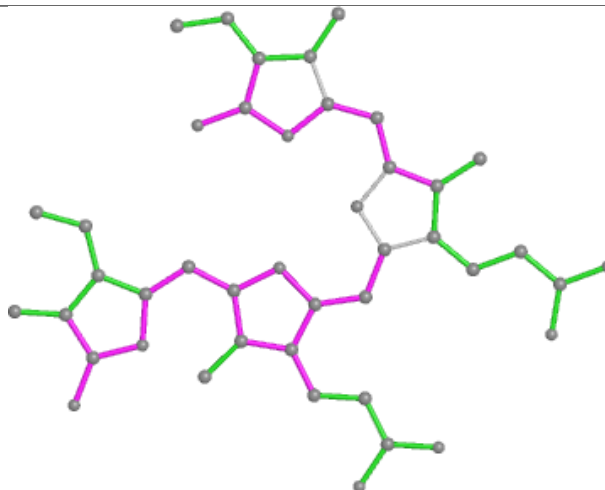




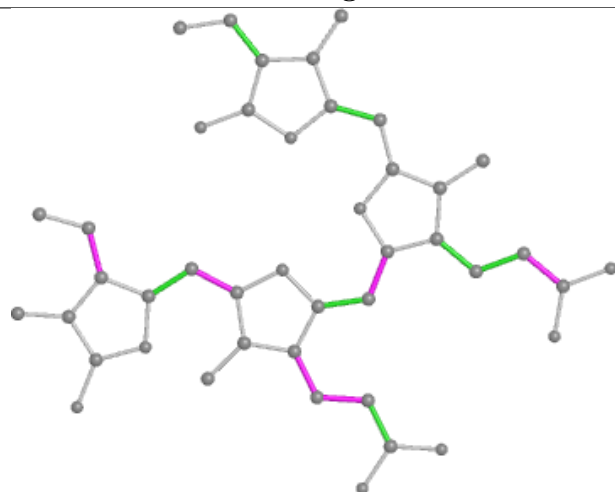
Ligand PEB DN 202



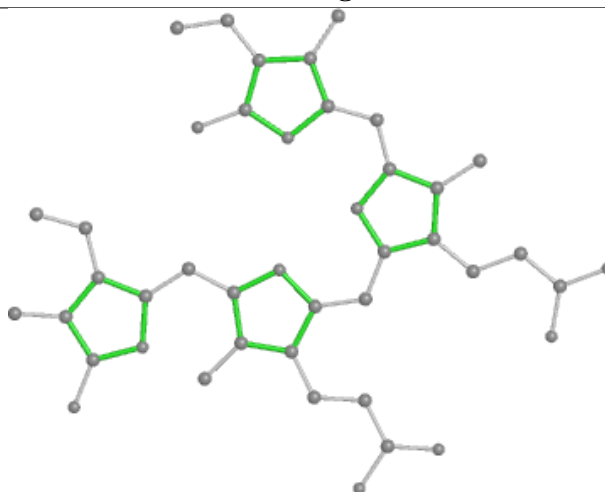
Bond lengths



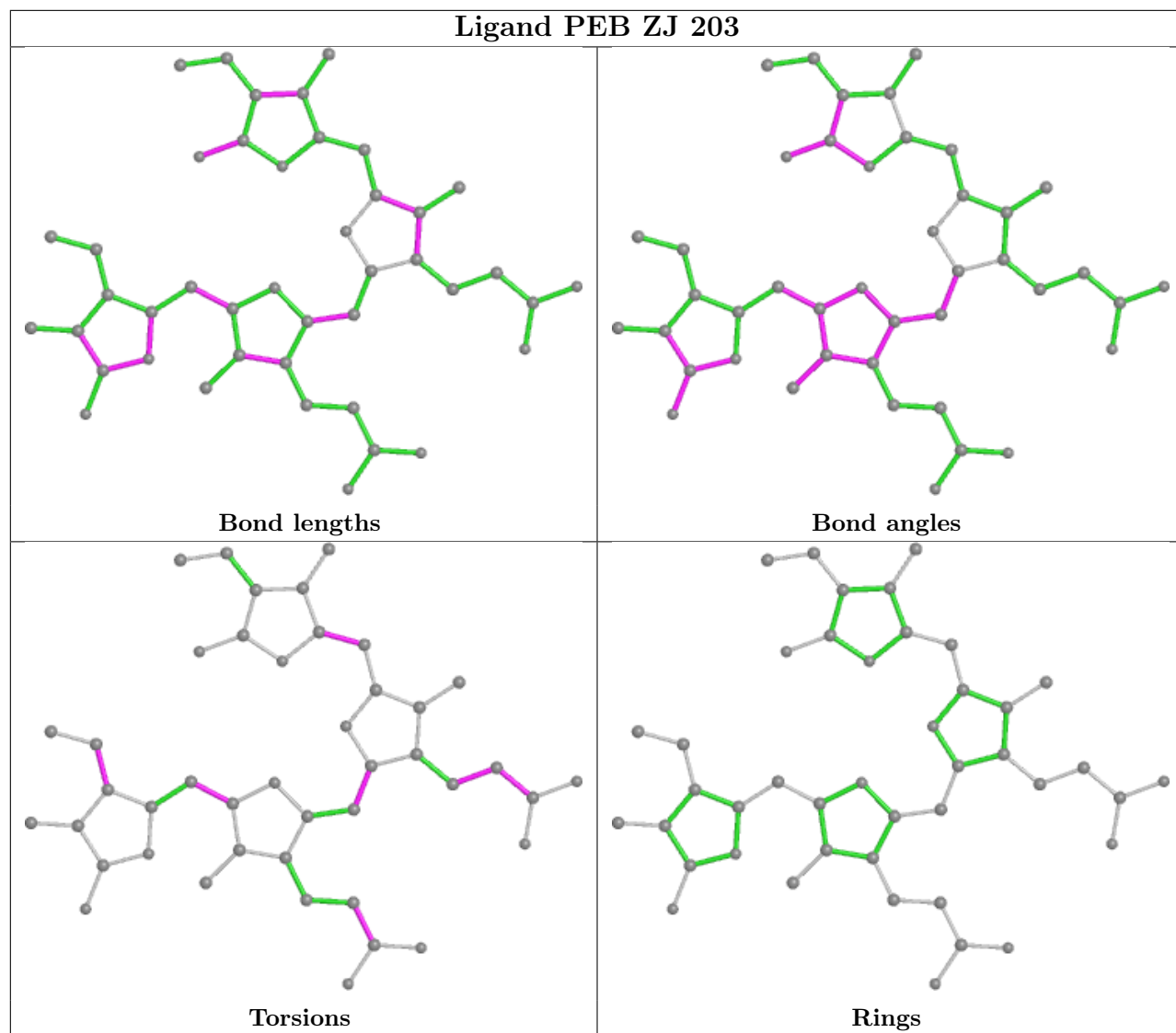
Bond angles

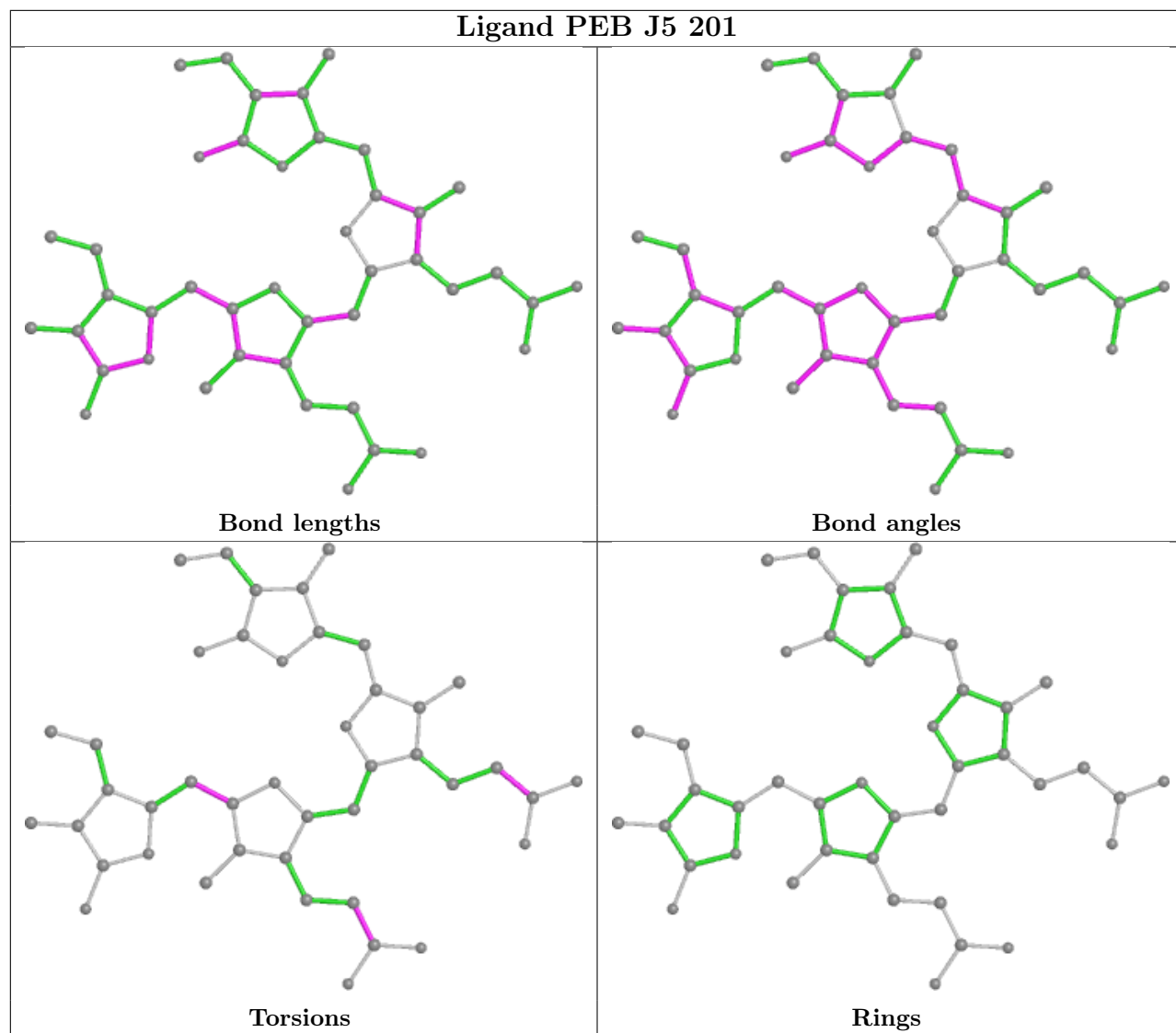


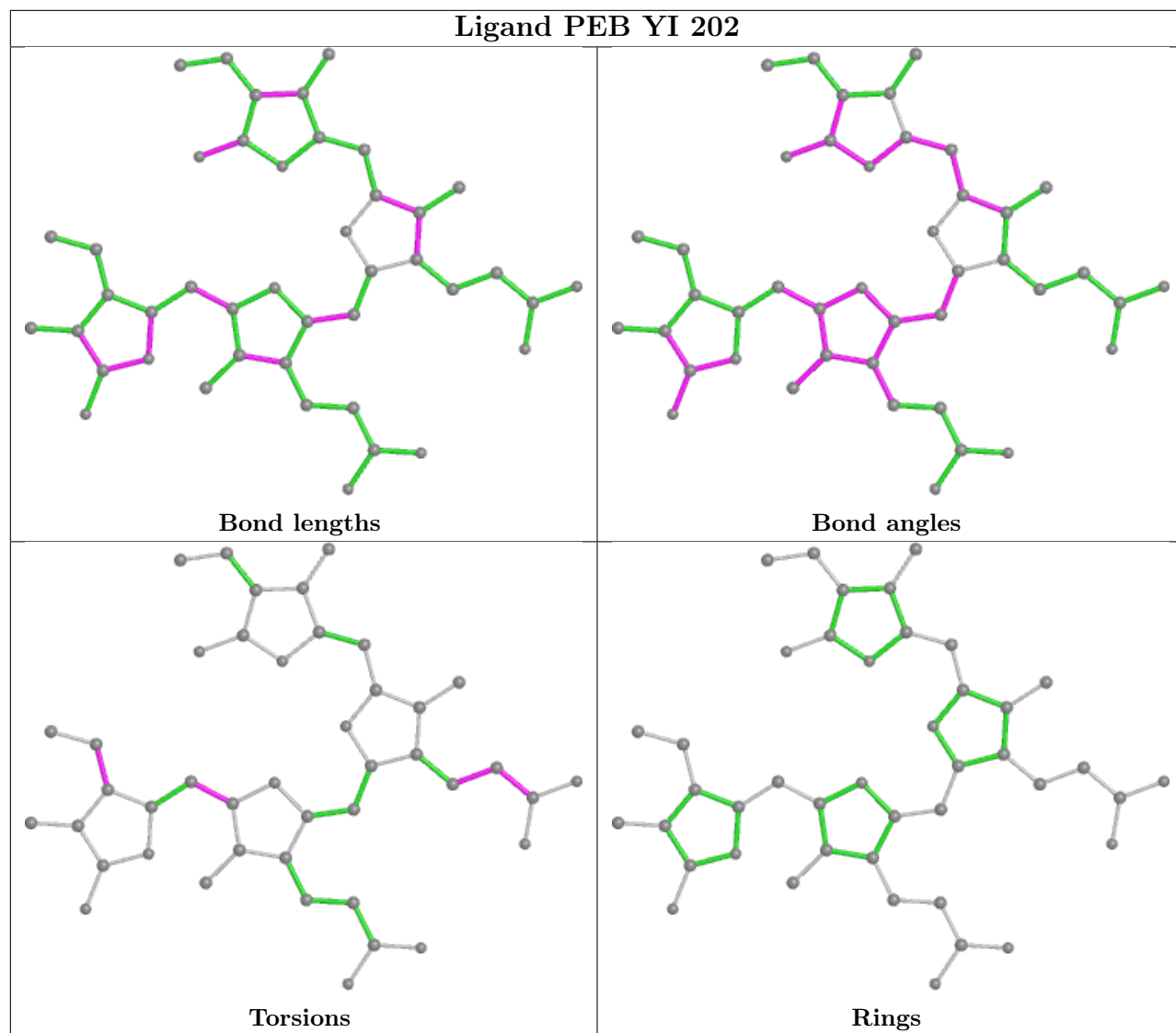
Torsions

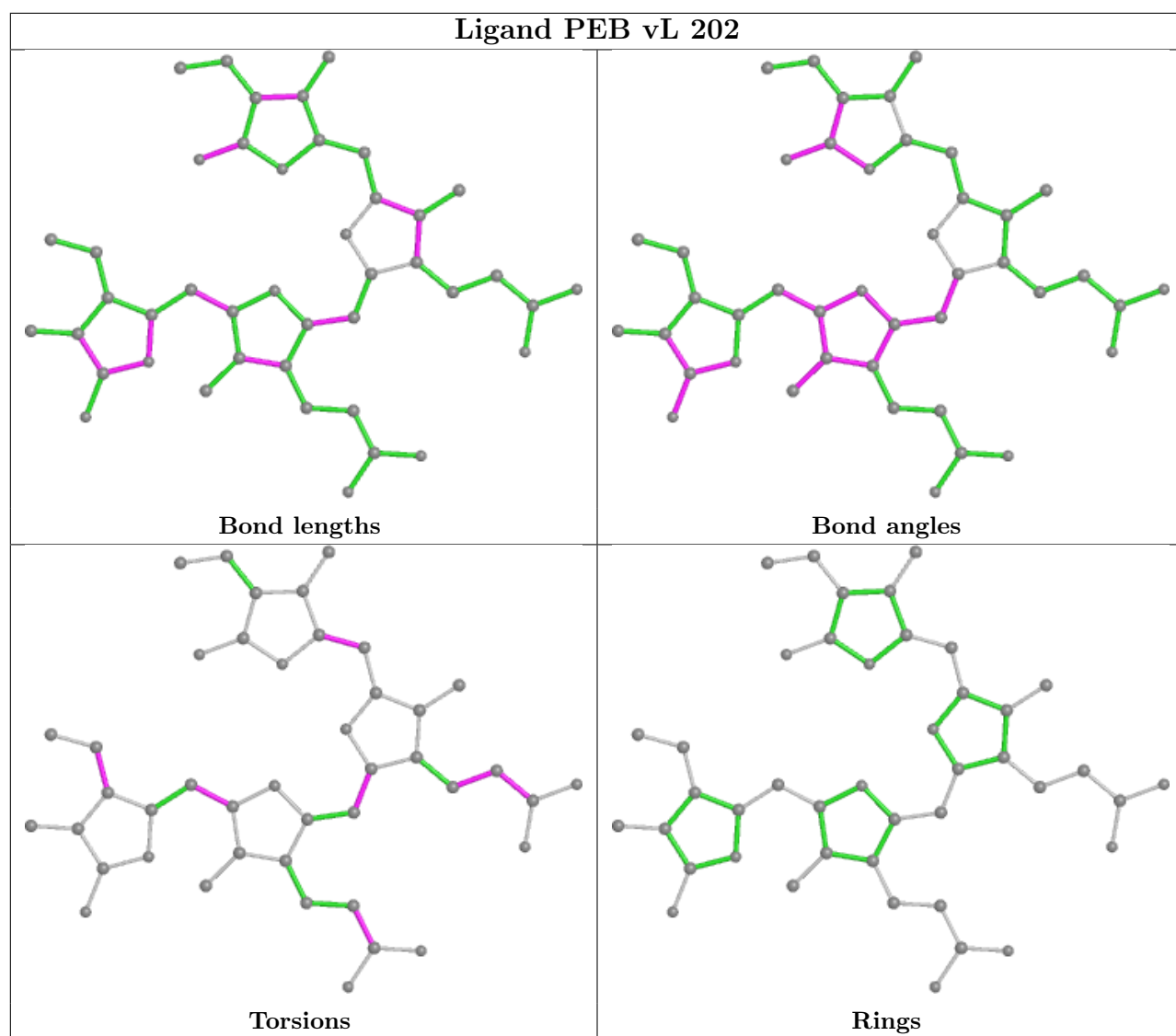


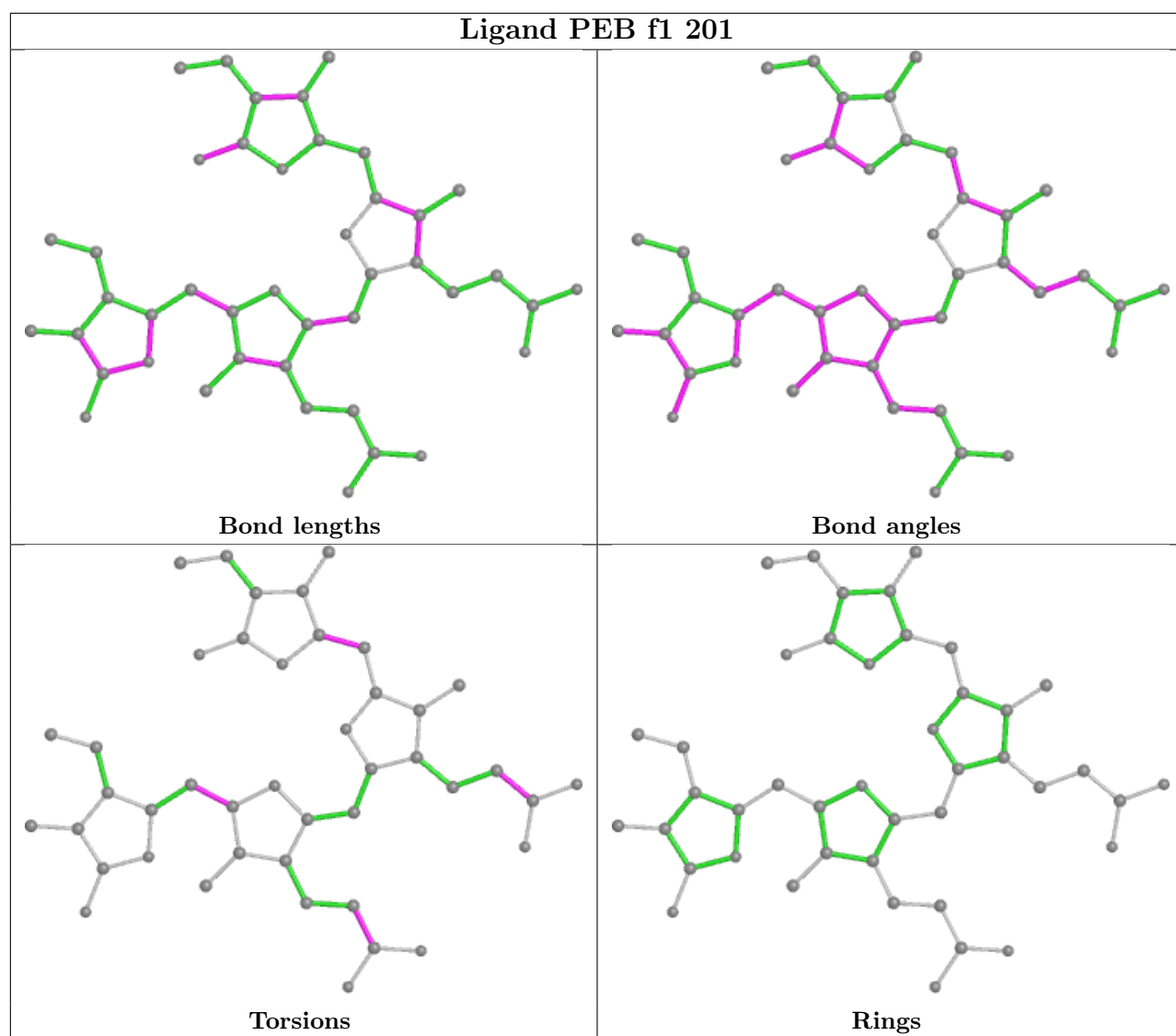
Rings



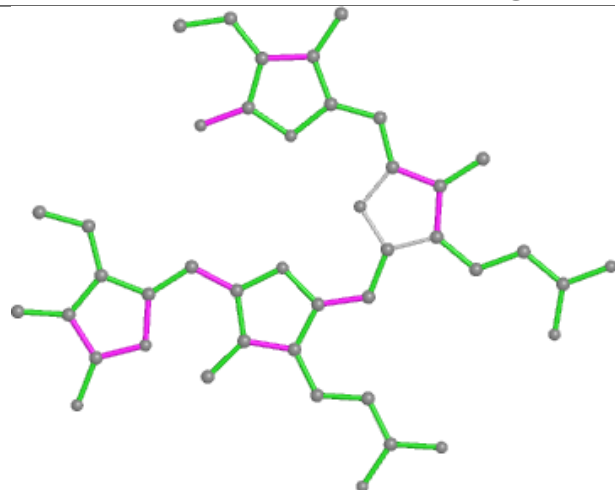




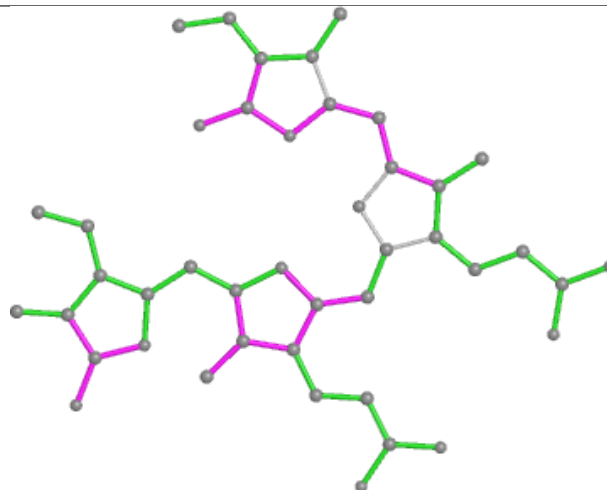




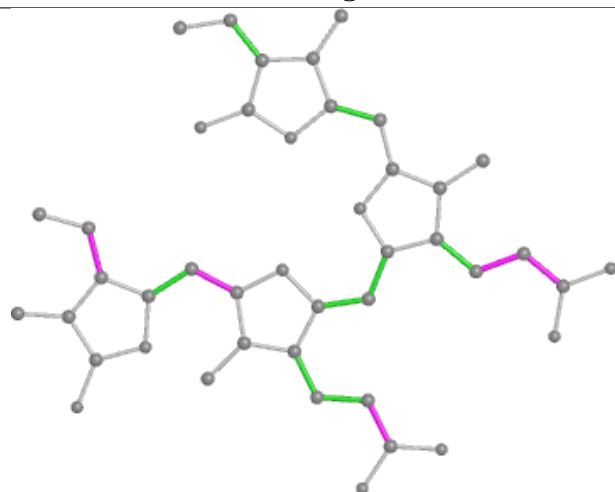
Ligand PEB A8 202



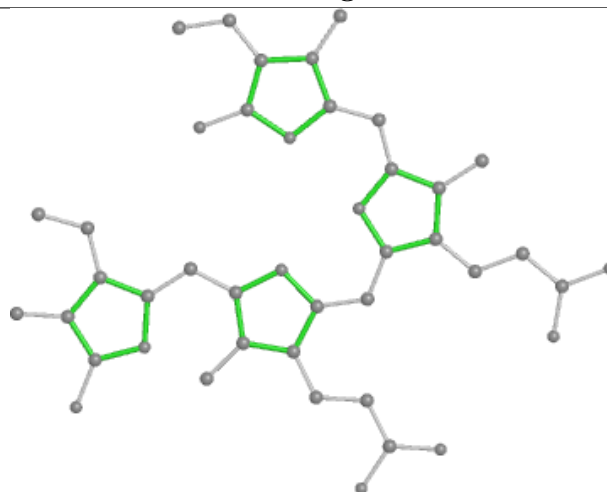
Bond lengths



Bond angles

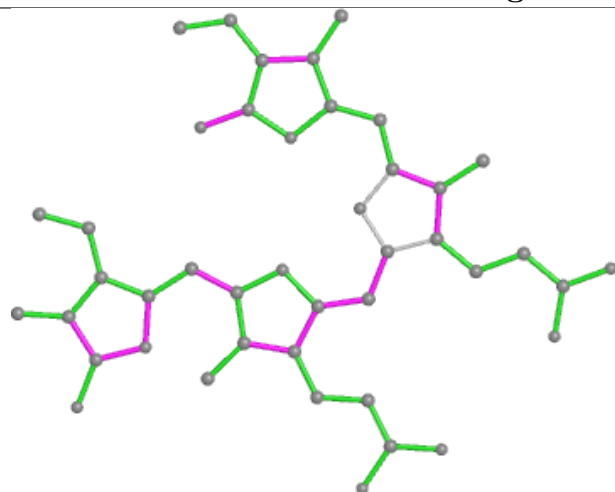


Torsions

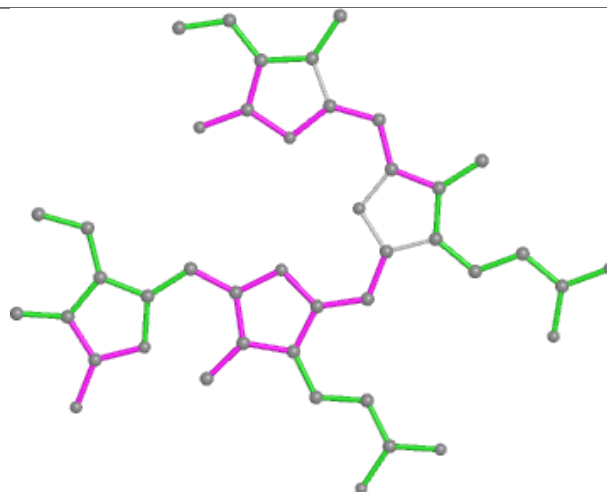


Rings

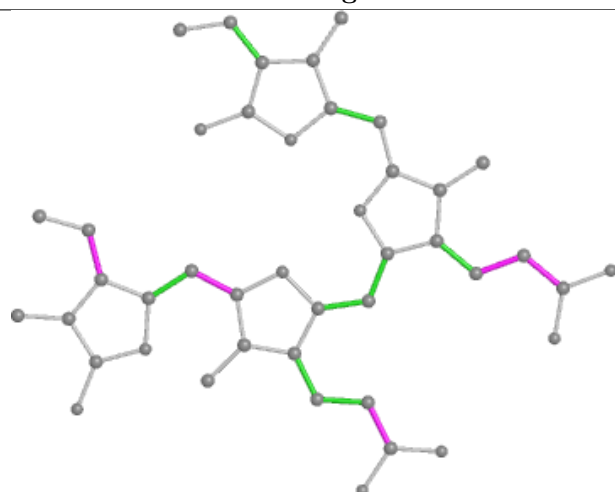
Ligand PEB G3 202



Bond lengths



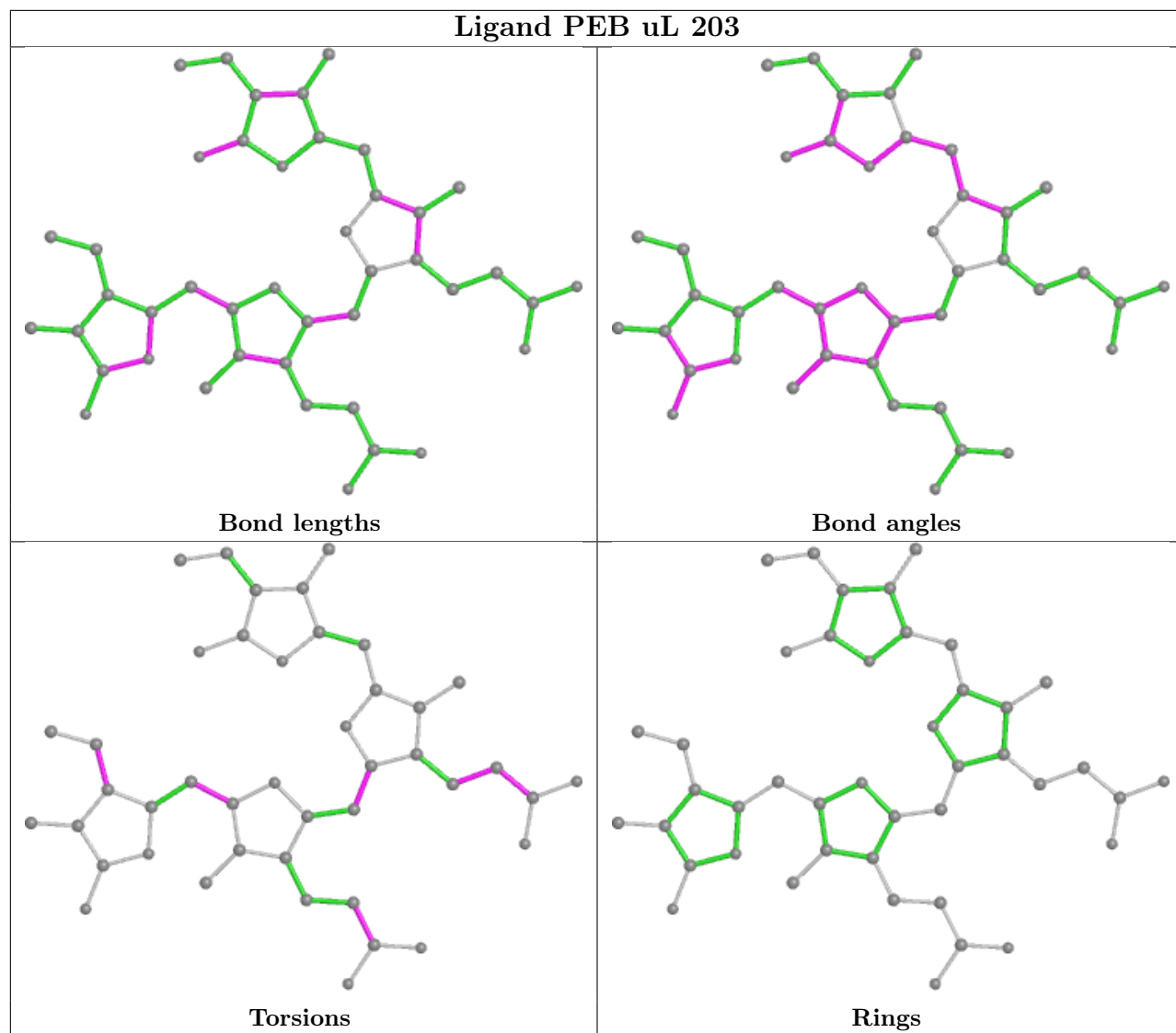
Bond angles

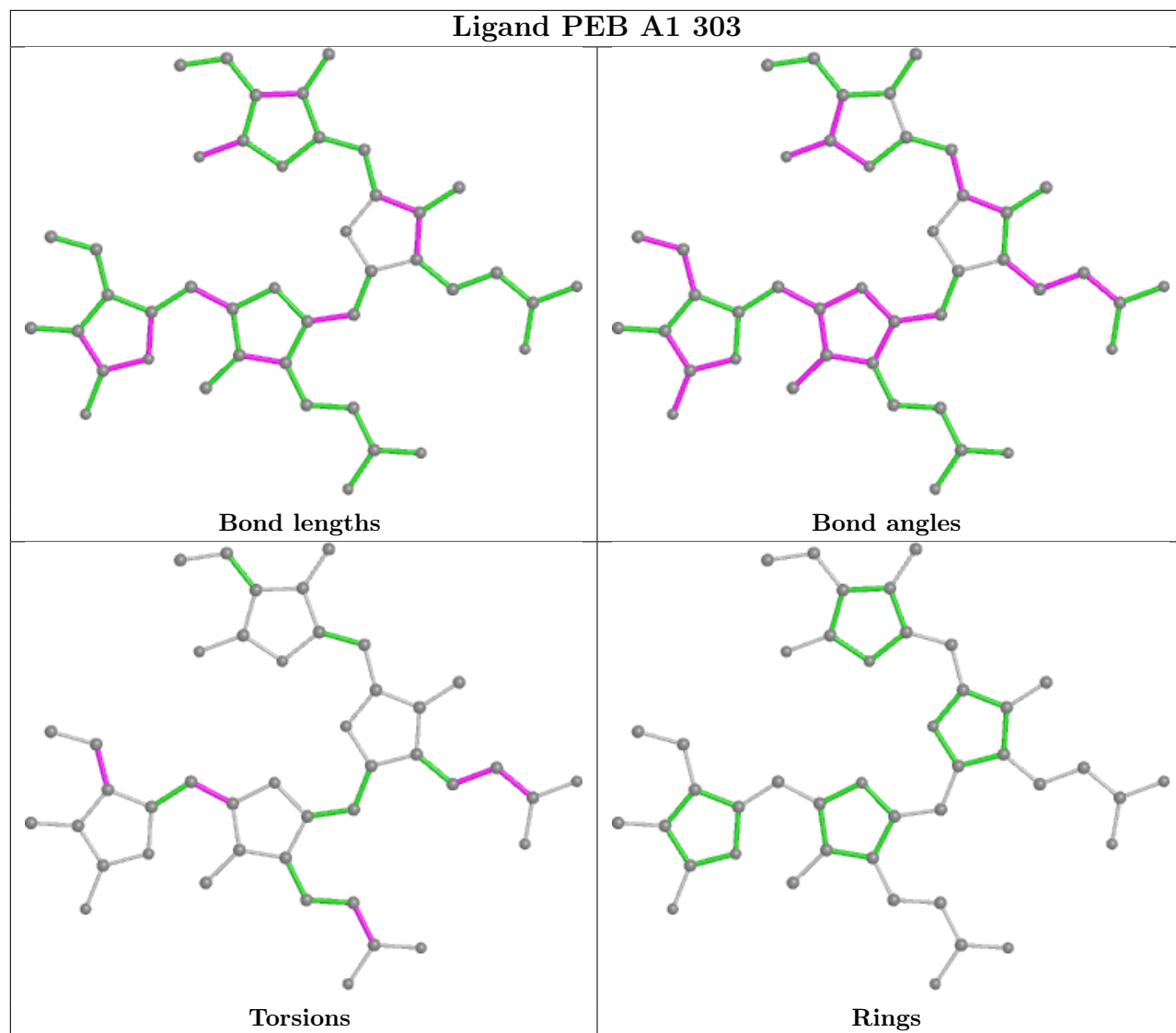


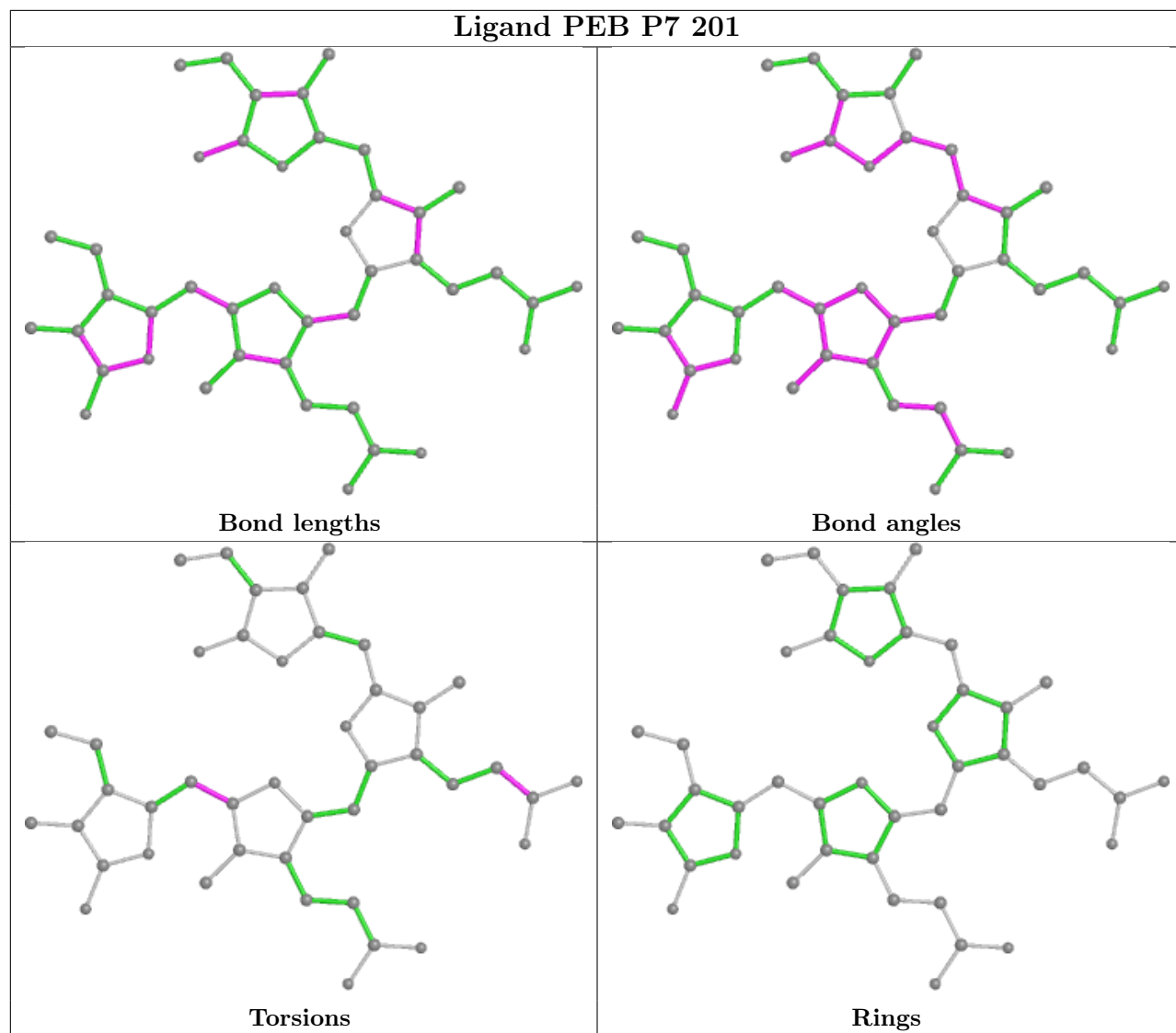
Torsions



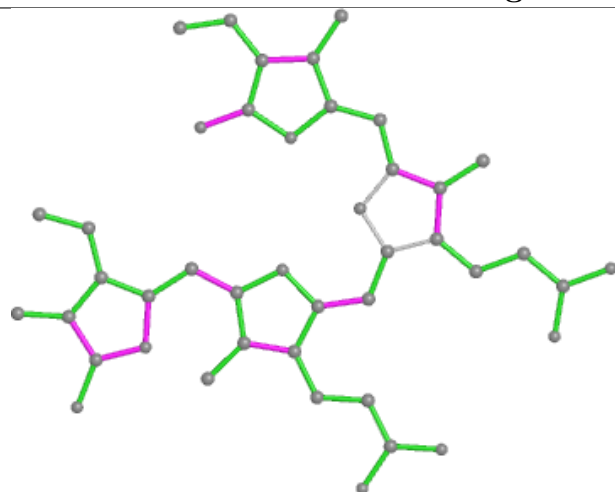
Rings



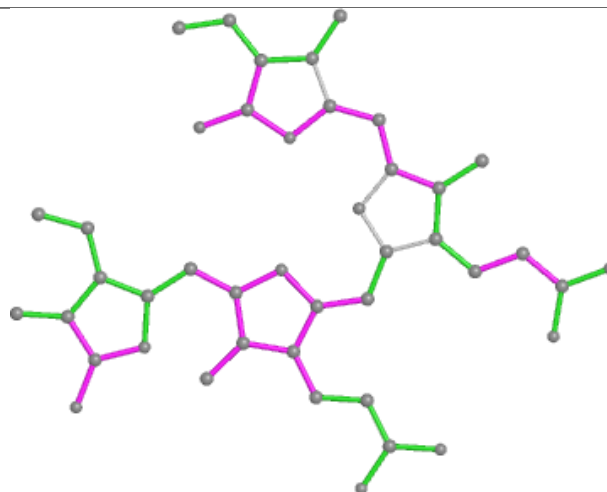




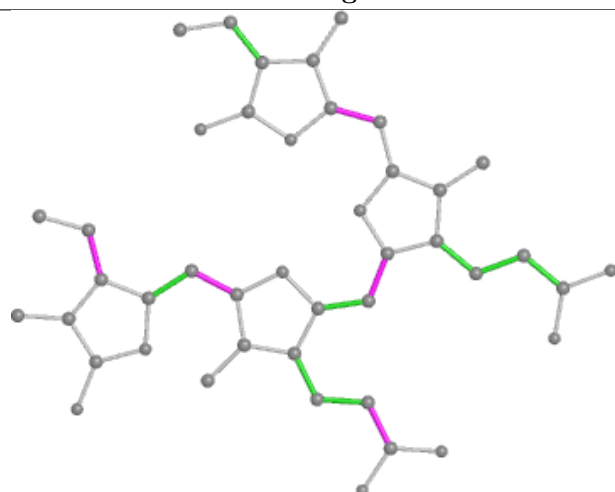
Ligand PEB LO 202



Bond lengths



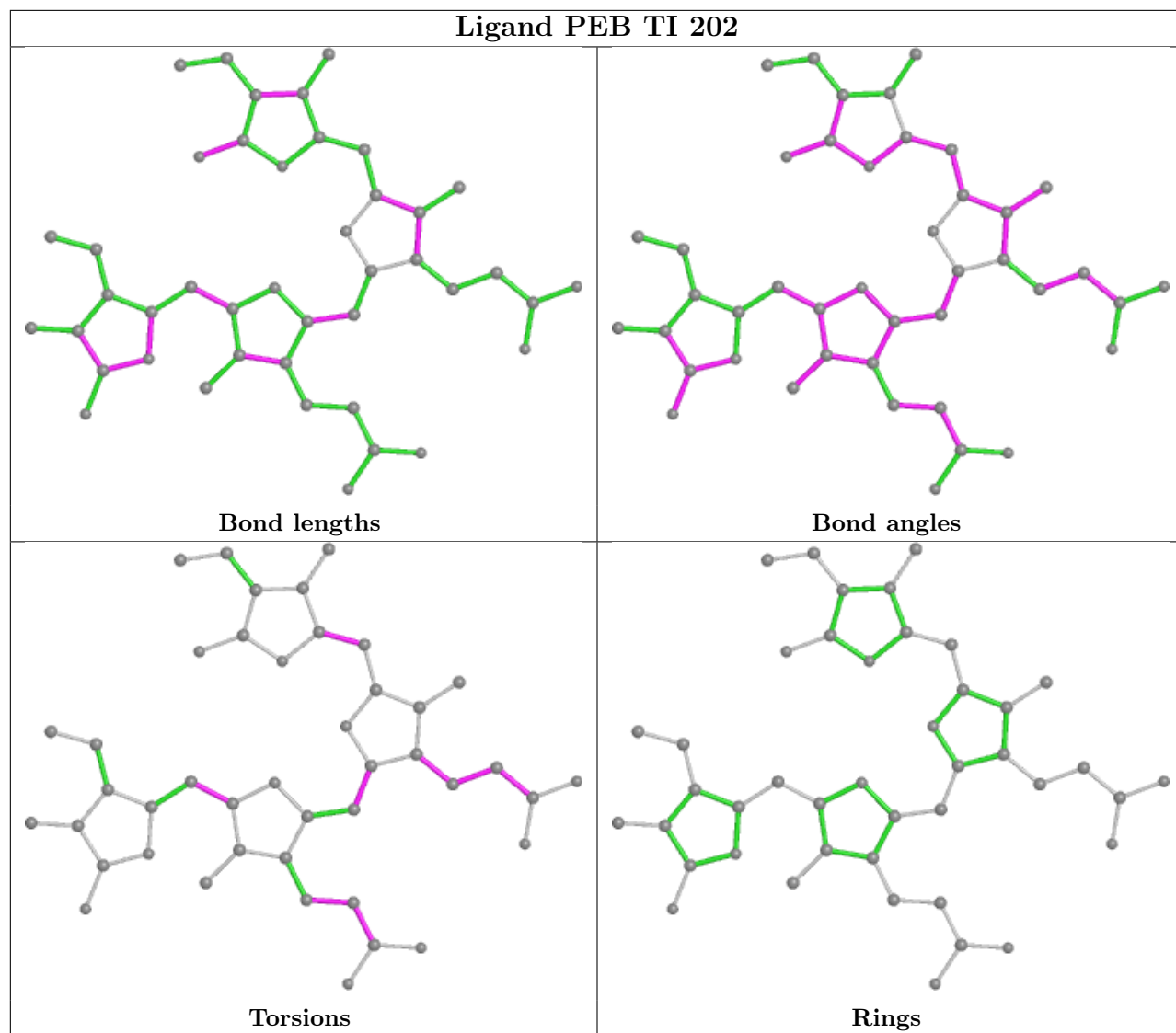
Bond angles



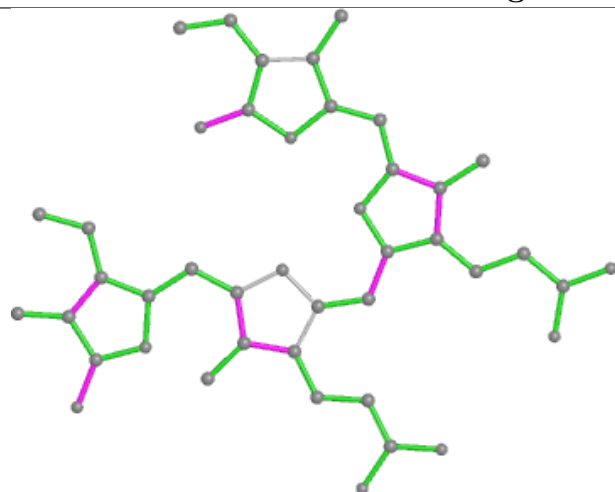
Torsions



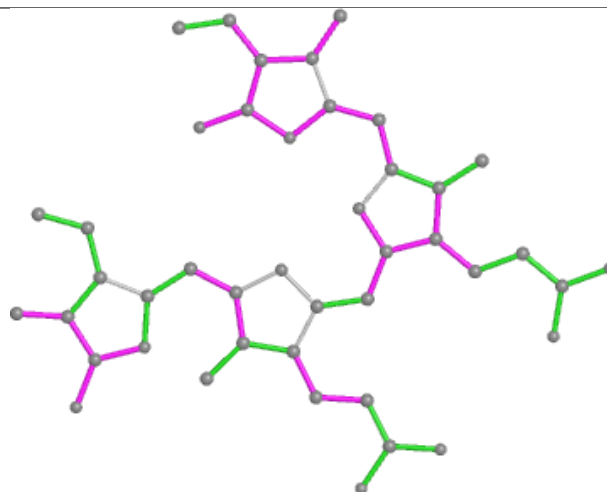
Rings



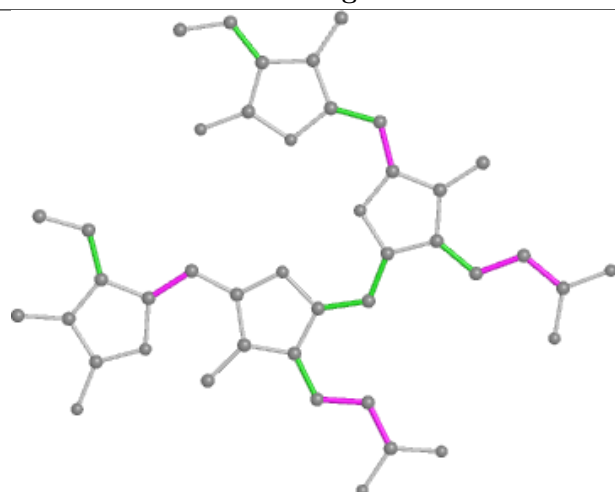
Ligand PUB AI 302



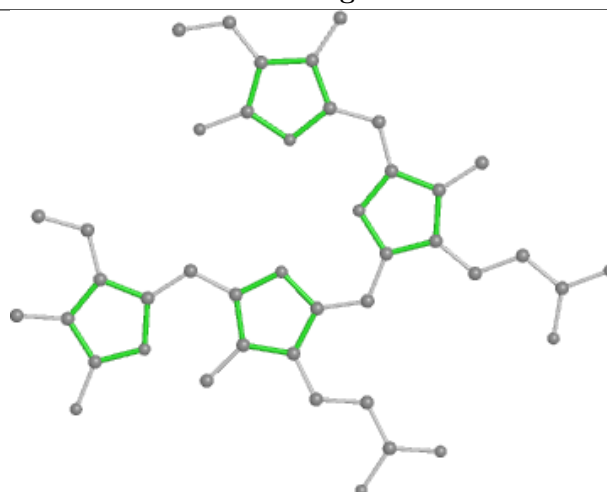
Bond lengths



Bond angles

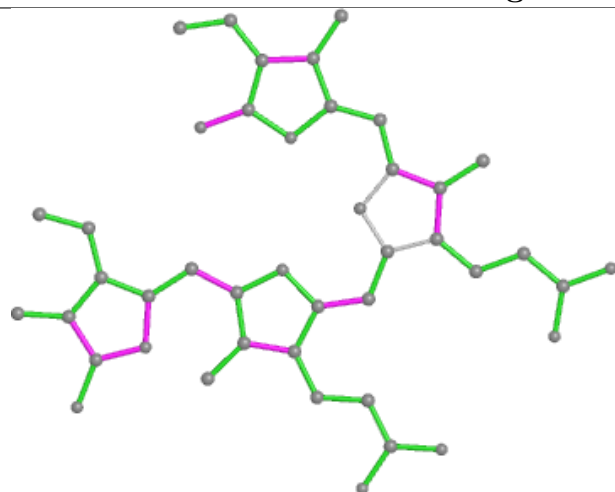


Torsions

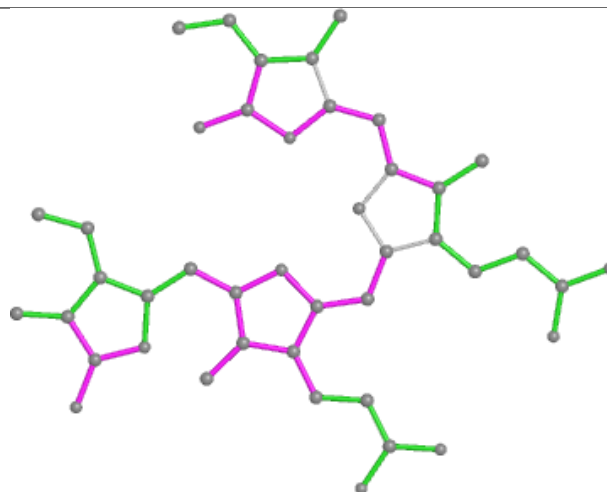


Rings

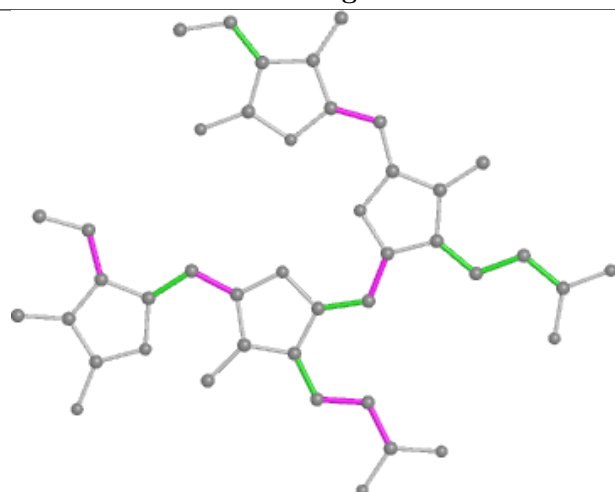
Ligand PEB JN 203



Bond lengths



Bond angles

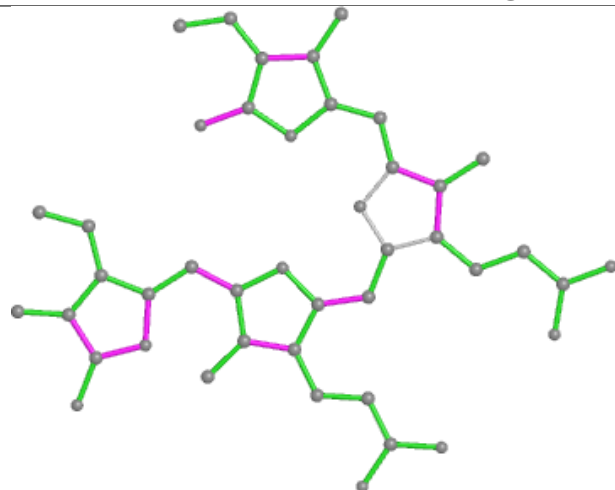


Torsions

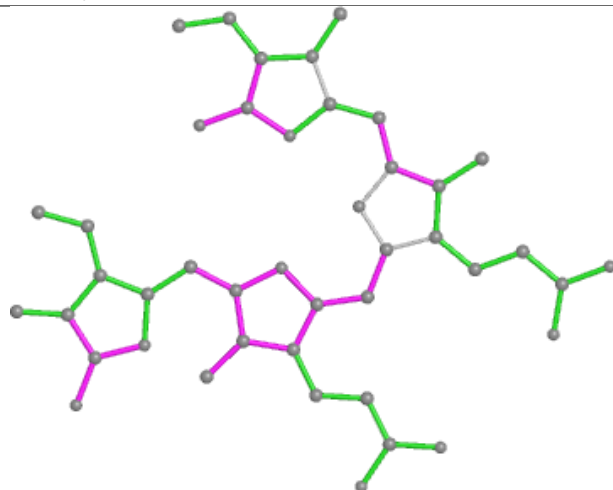


Rings

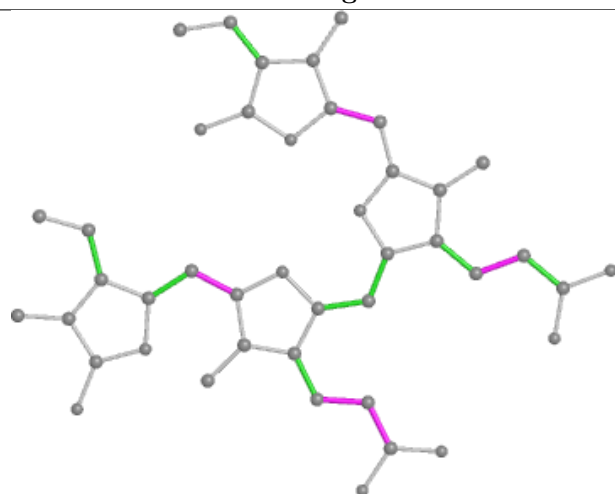
Ligand PEB GQ 201



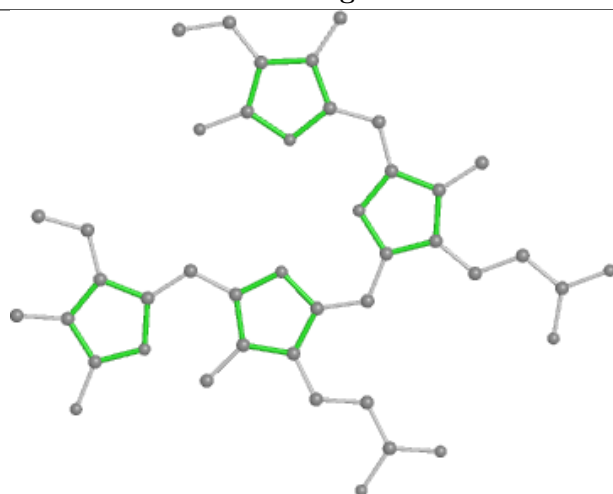
Bond lengths



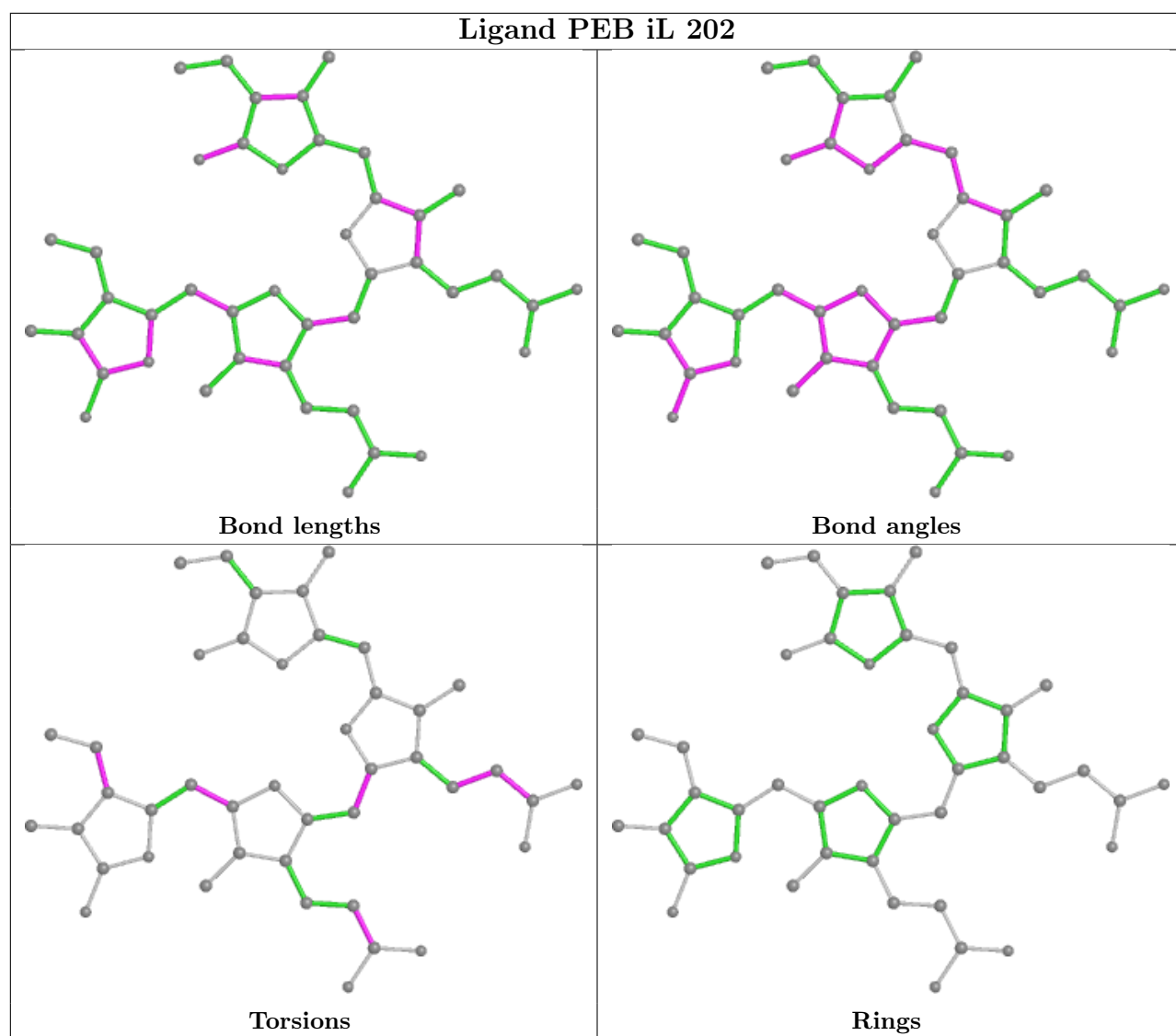
Bond angles

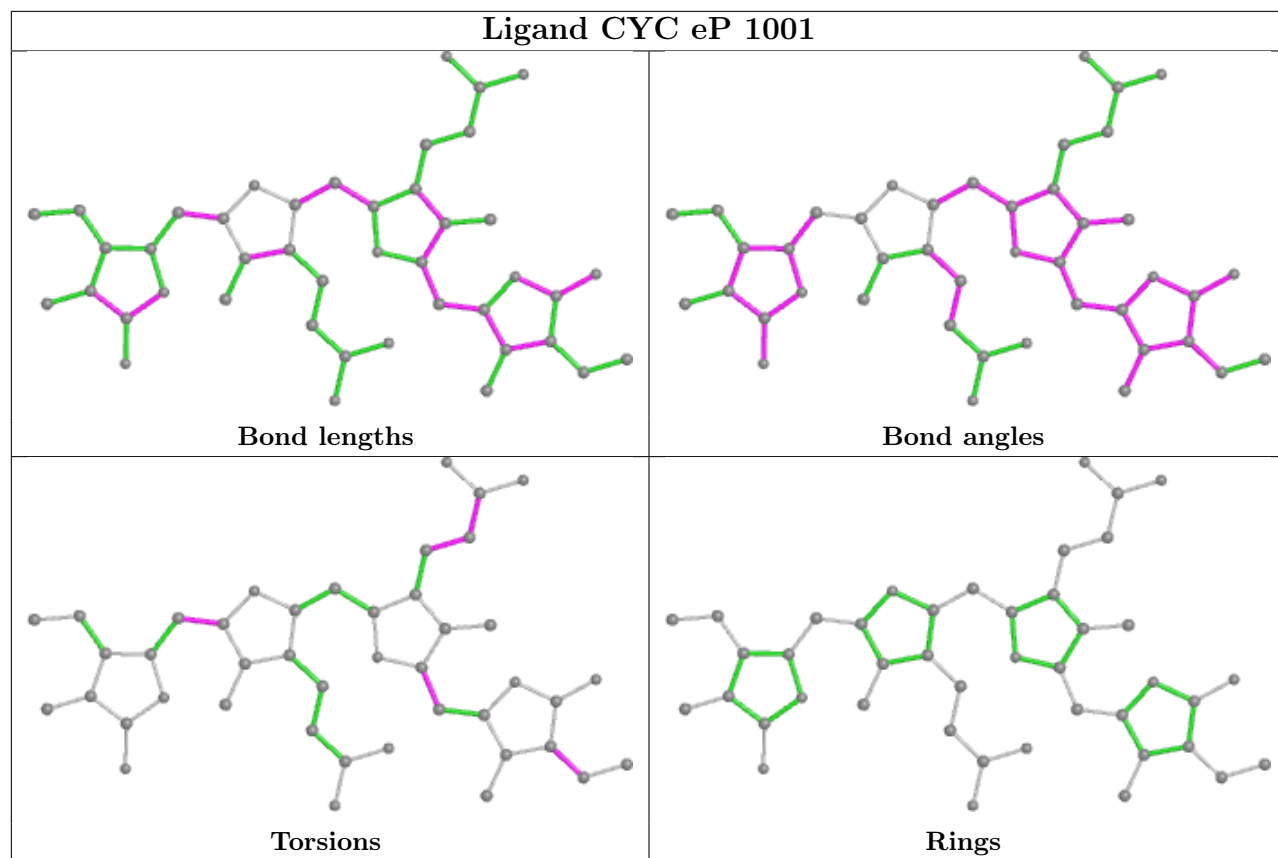


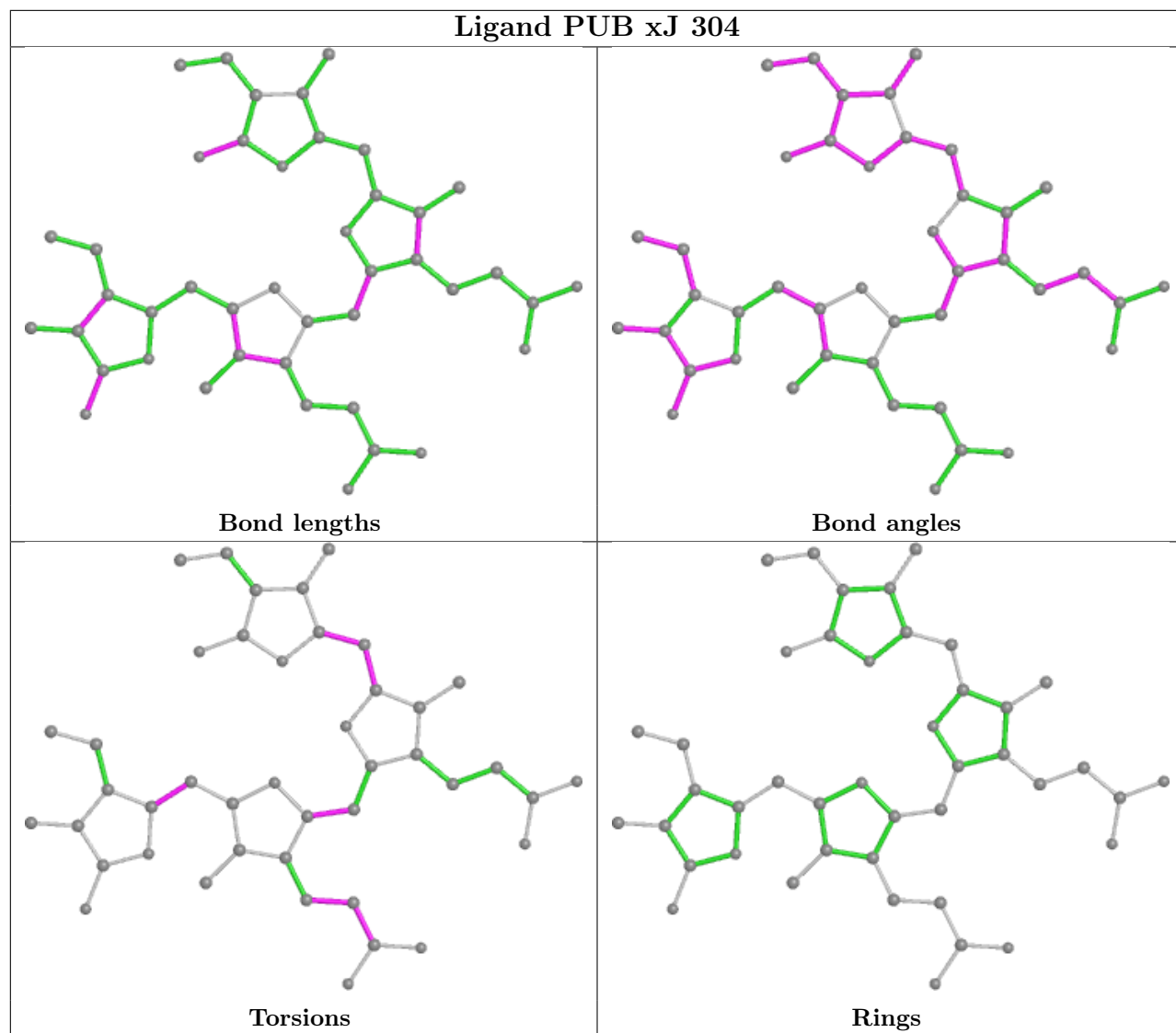
Torsions



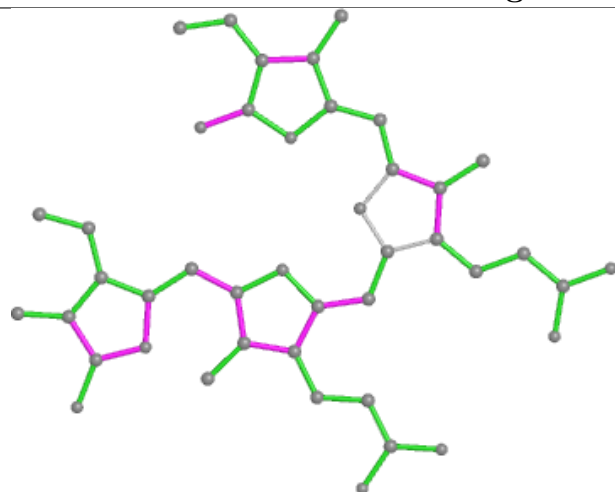
Rings



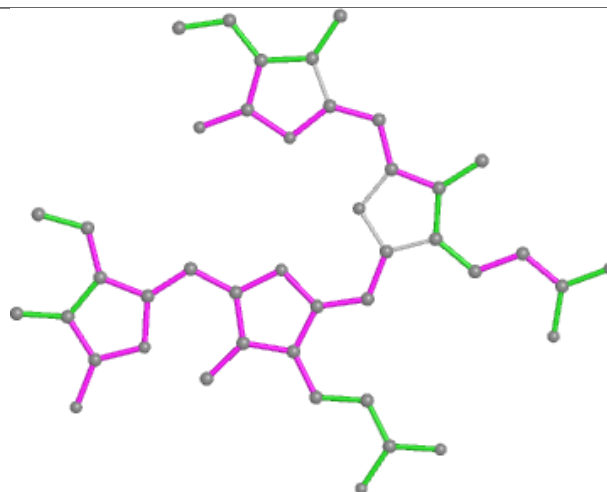




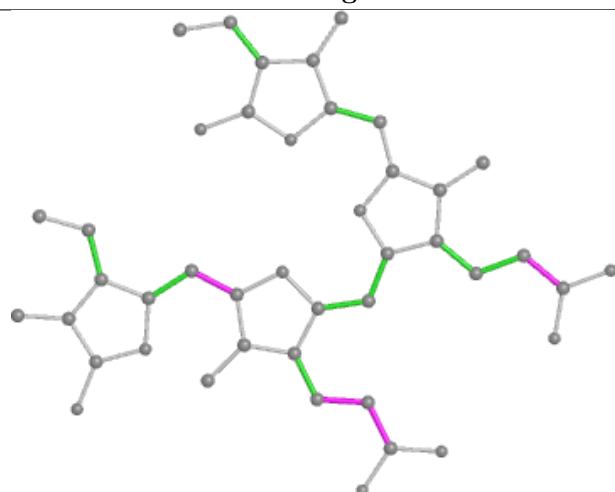
Ligand PEB wL 302



Bond lengths



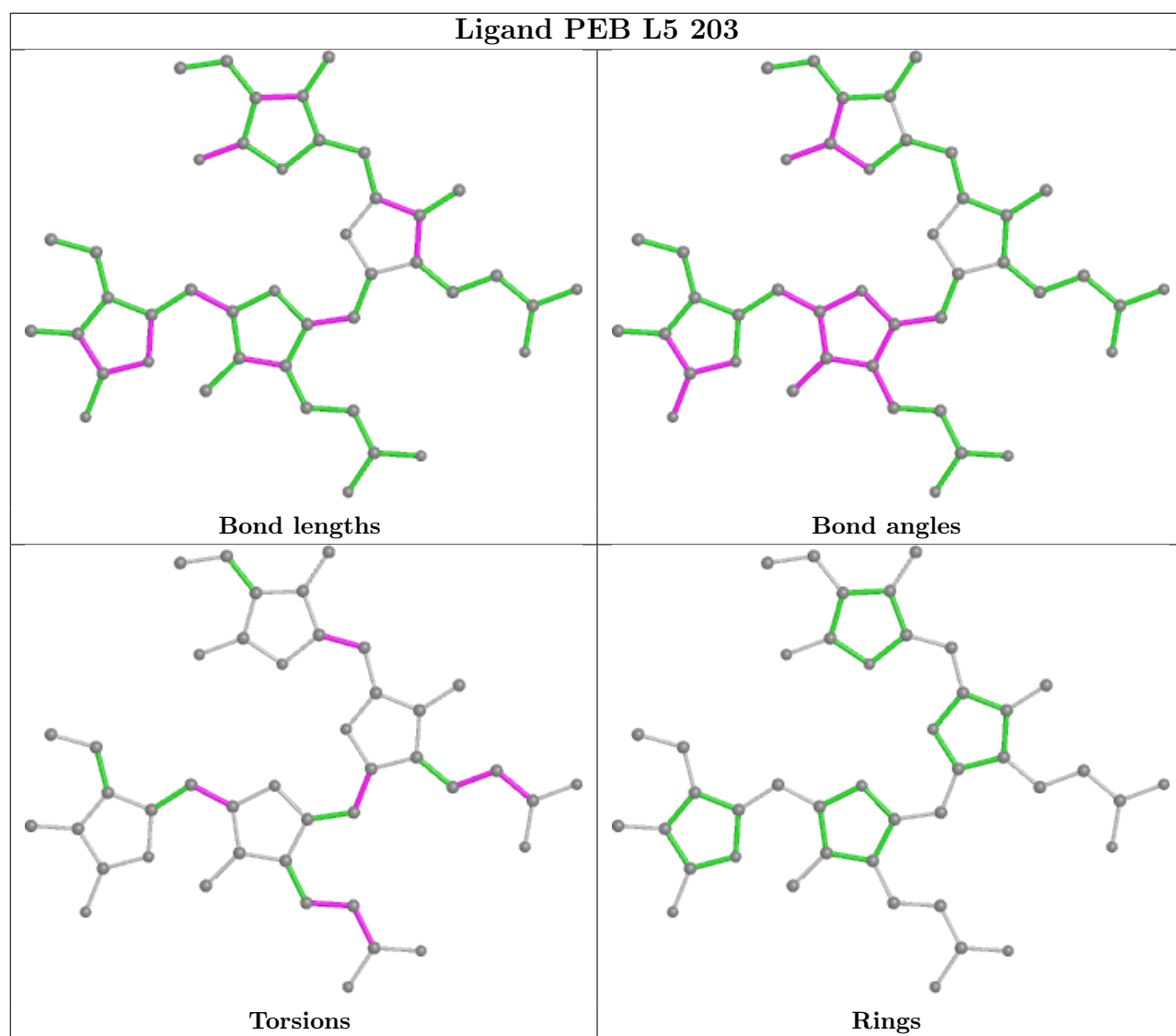
Bond angles



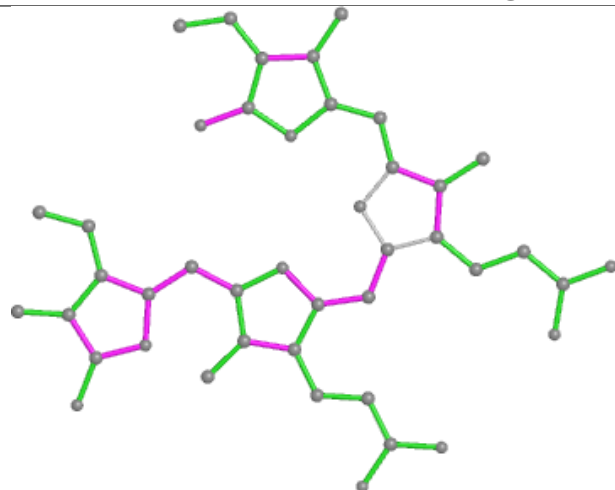
Torsions



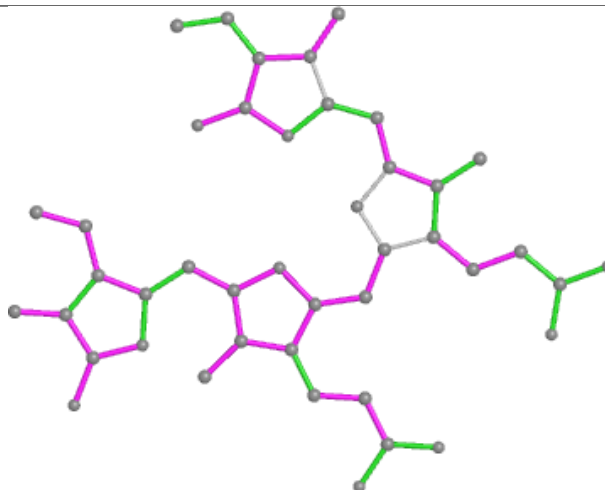
Rings



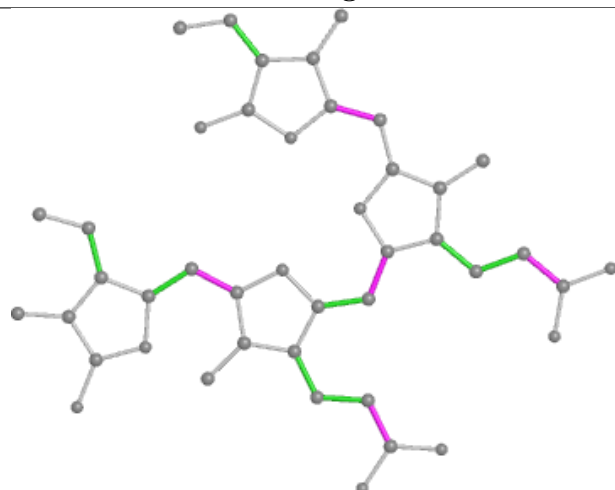
Ligand PEB HD 201



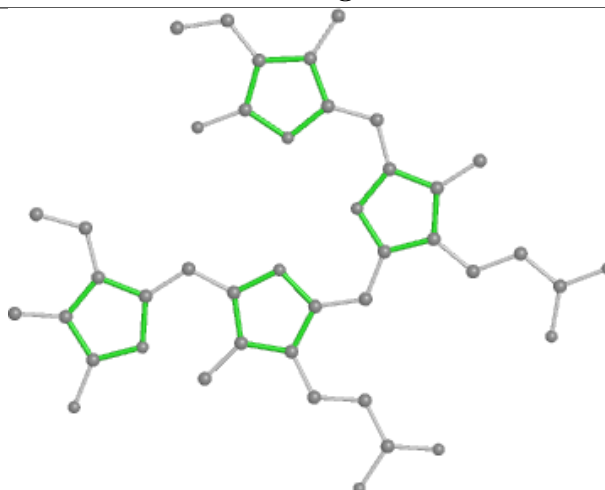
Bond lengths



Bond angles

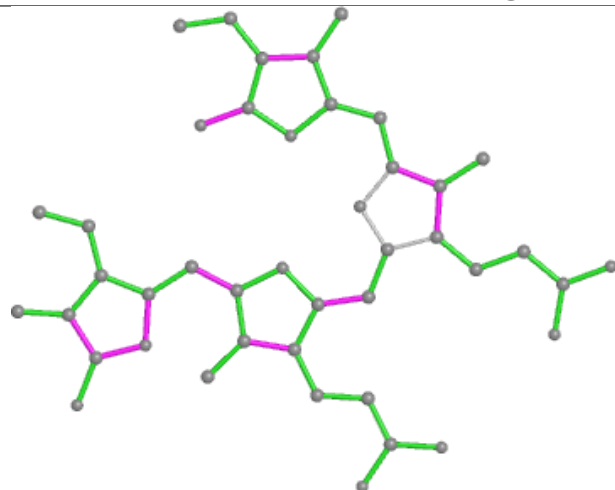


Torsions

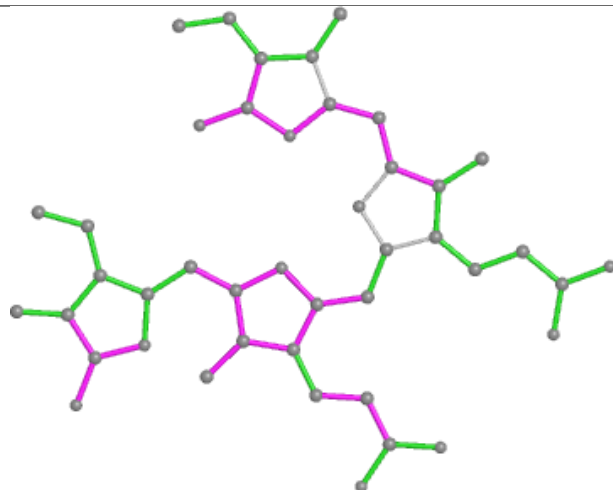


Rings

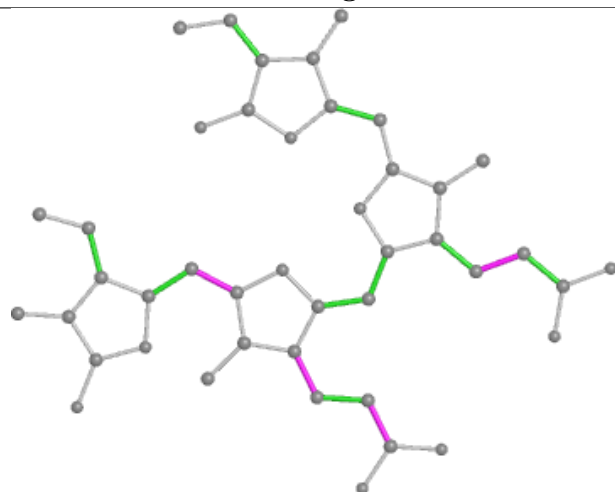
Ligand PEB RK 201



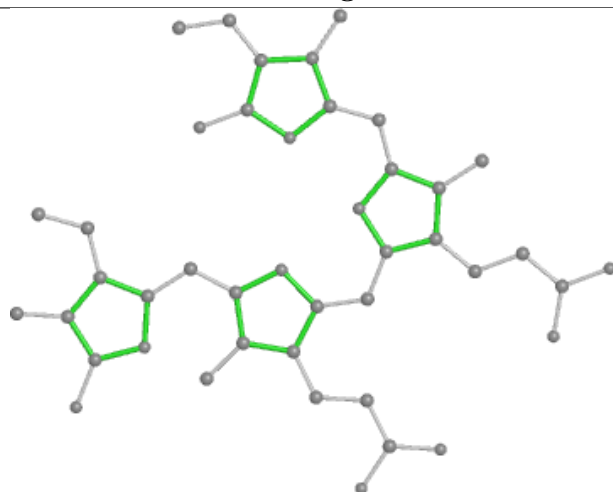
Bond lengths



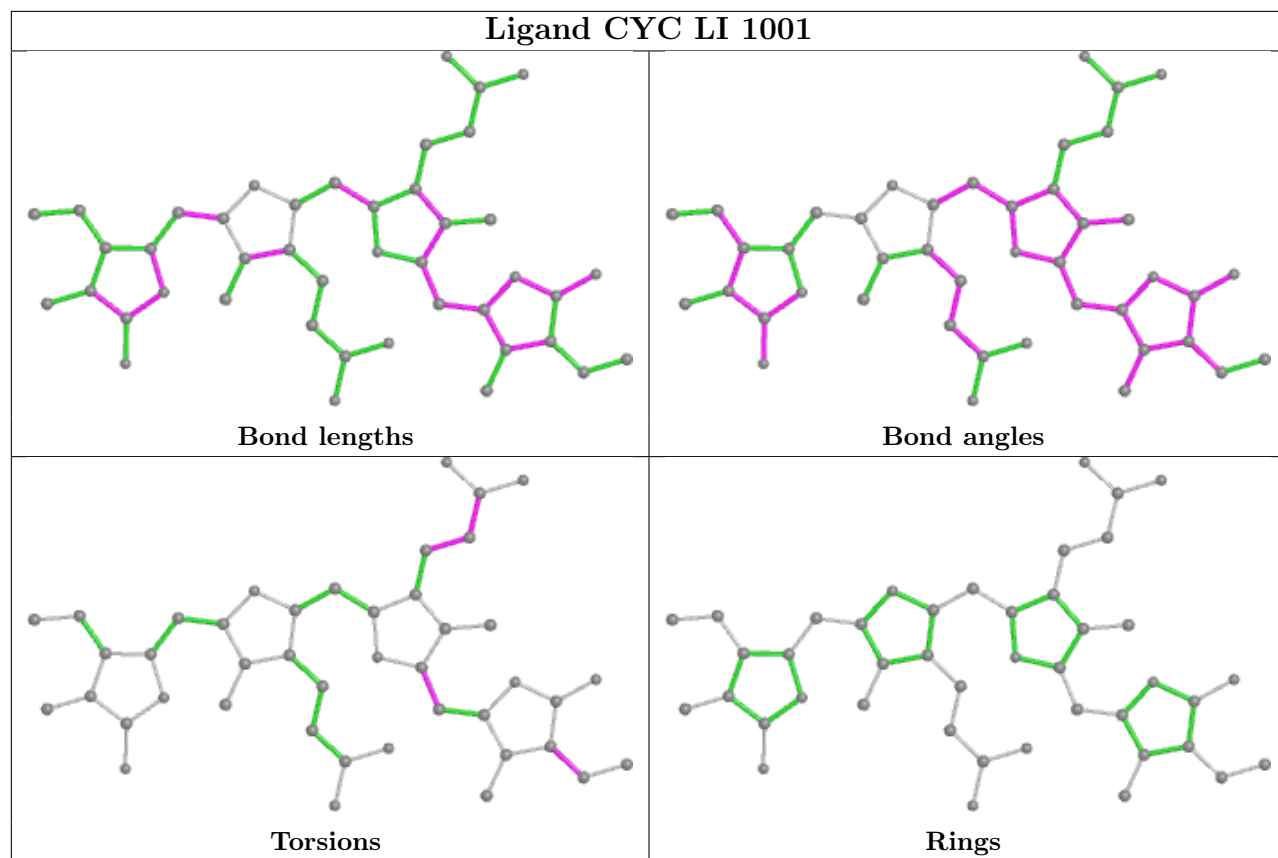
Bond angles

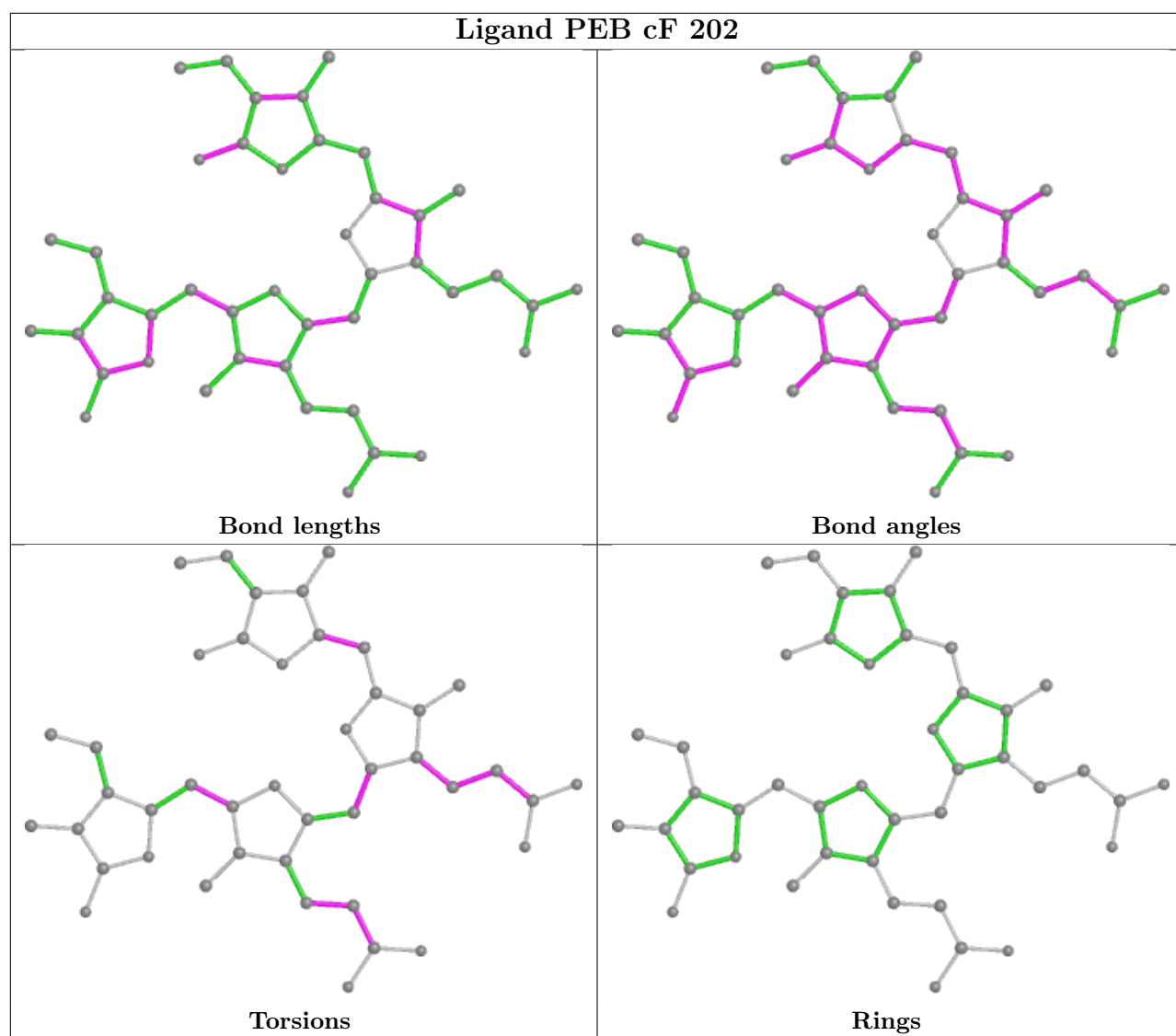


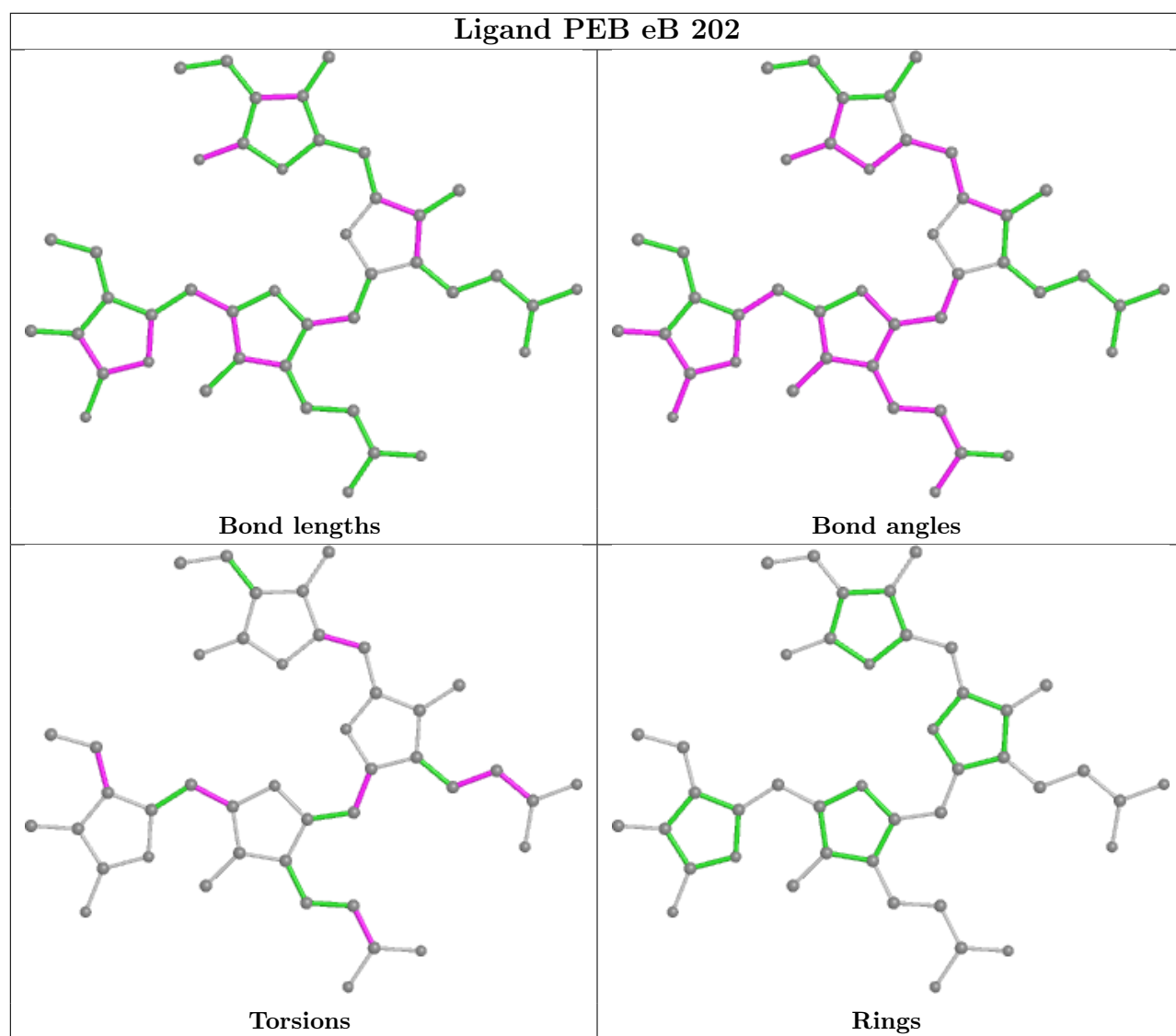
Torsions



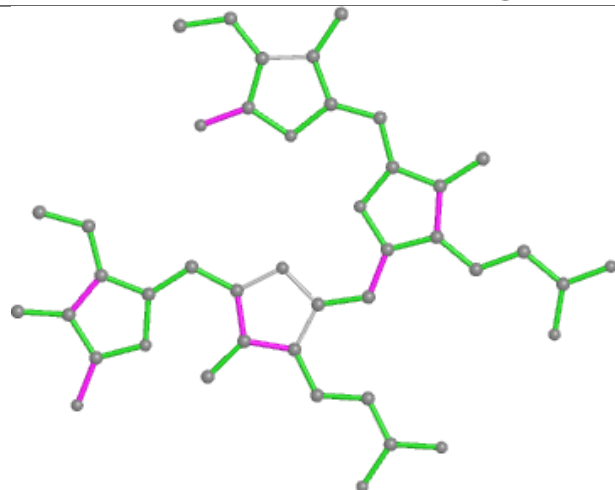
Rings



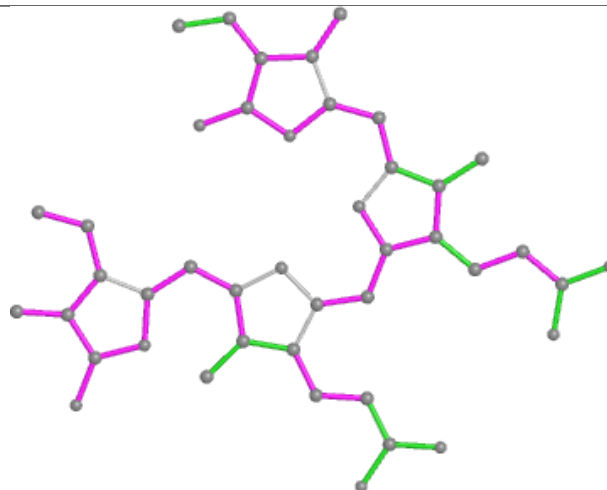




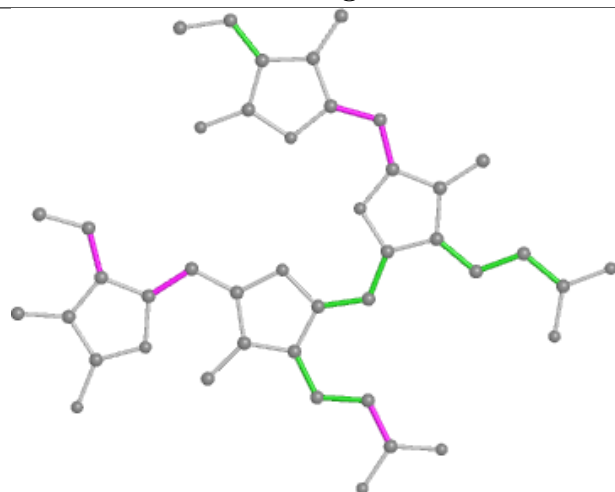
Ligand PUB MN 402



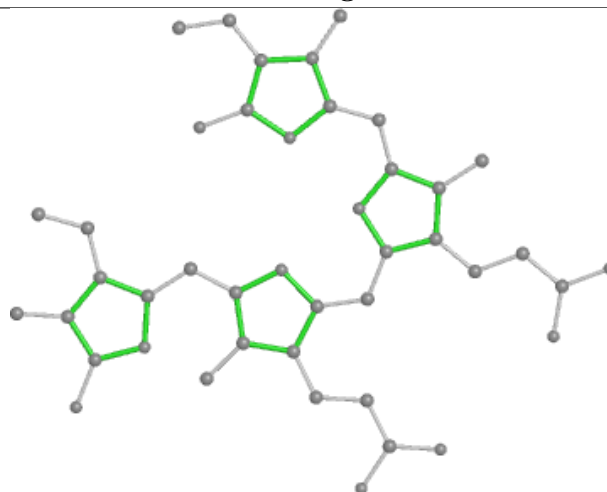
Bond lengths



Bond angles

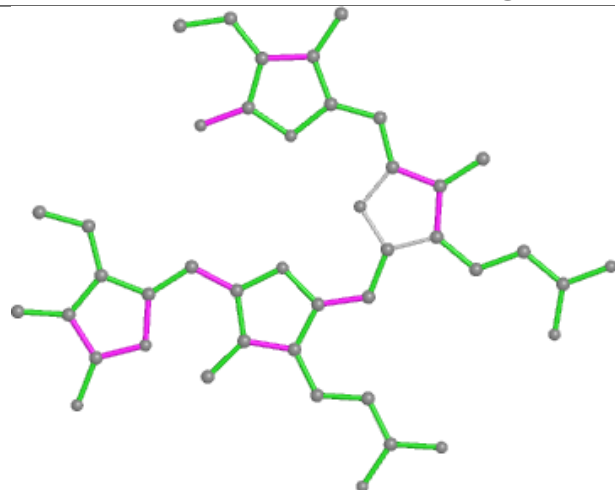


Torsions

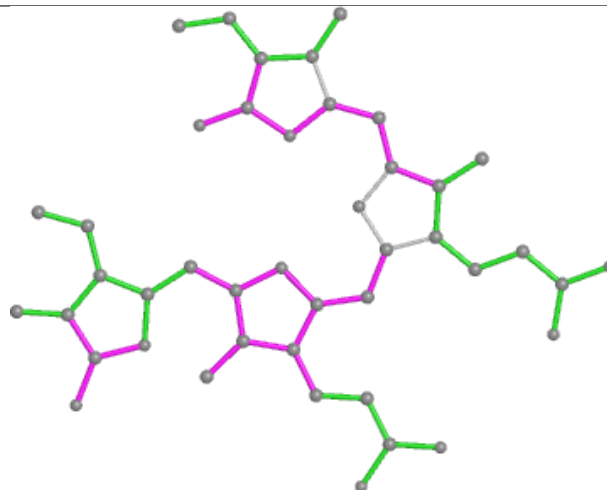


Rings

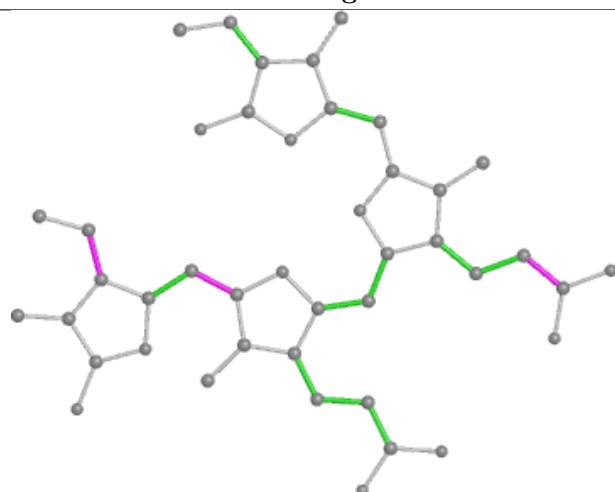
Ligand PEB DM 202



Bond lengths



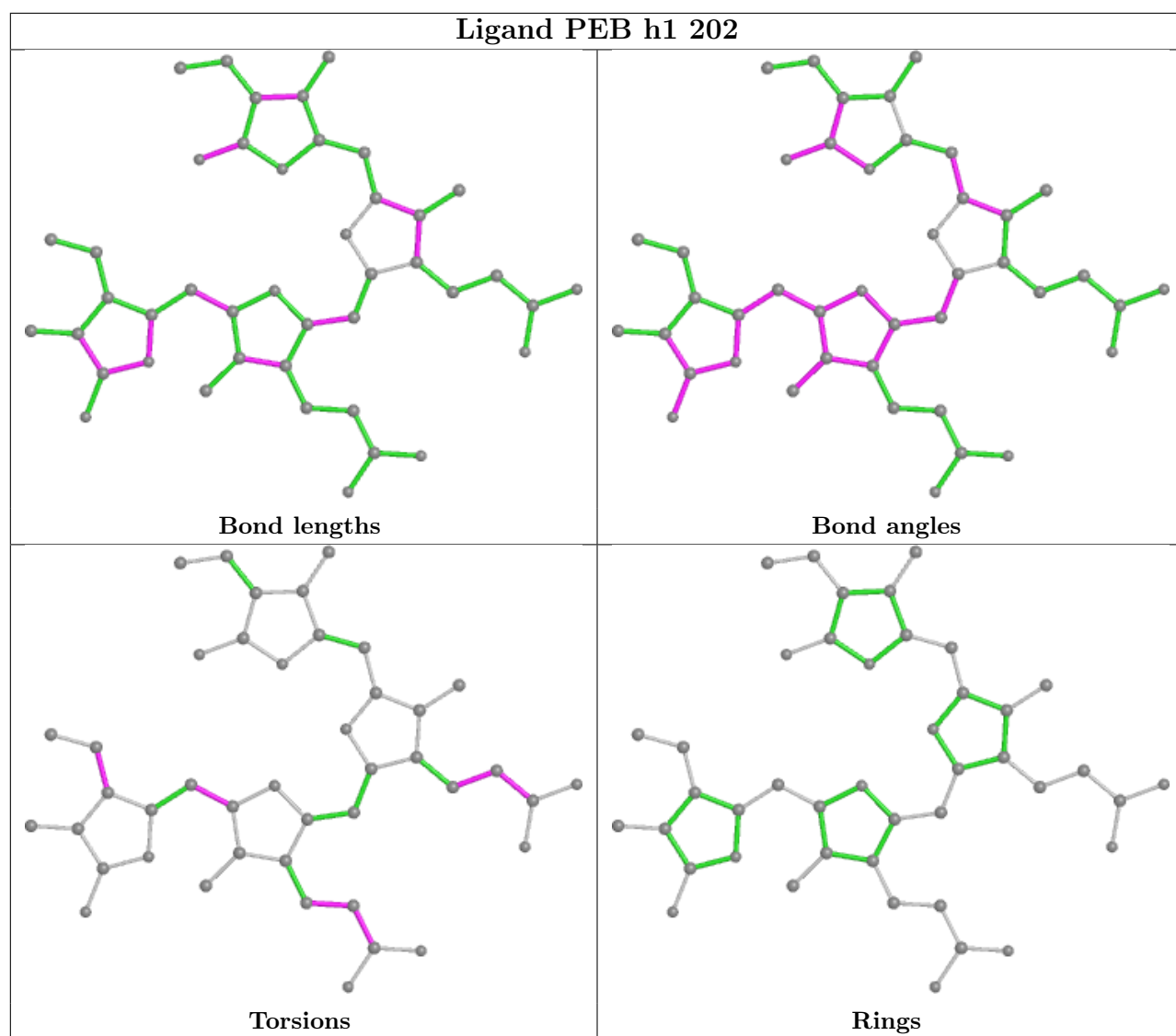
Bond angles

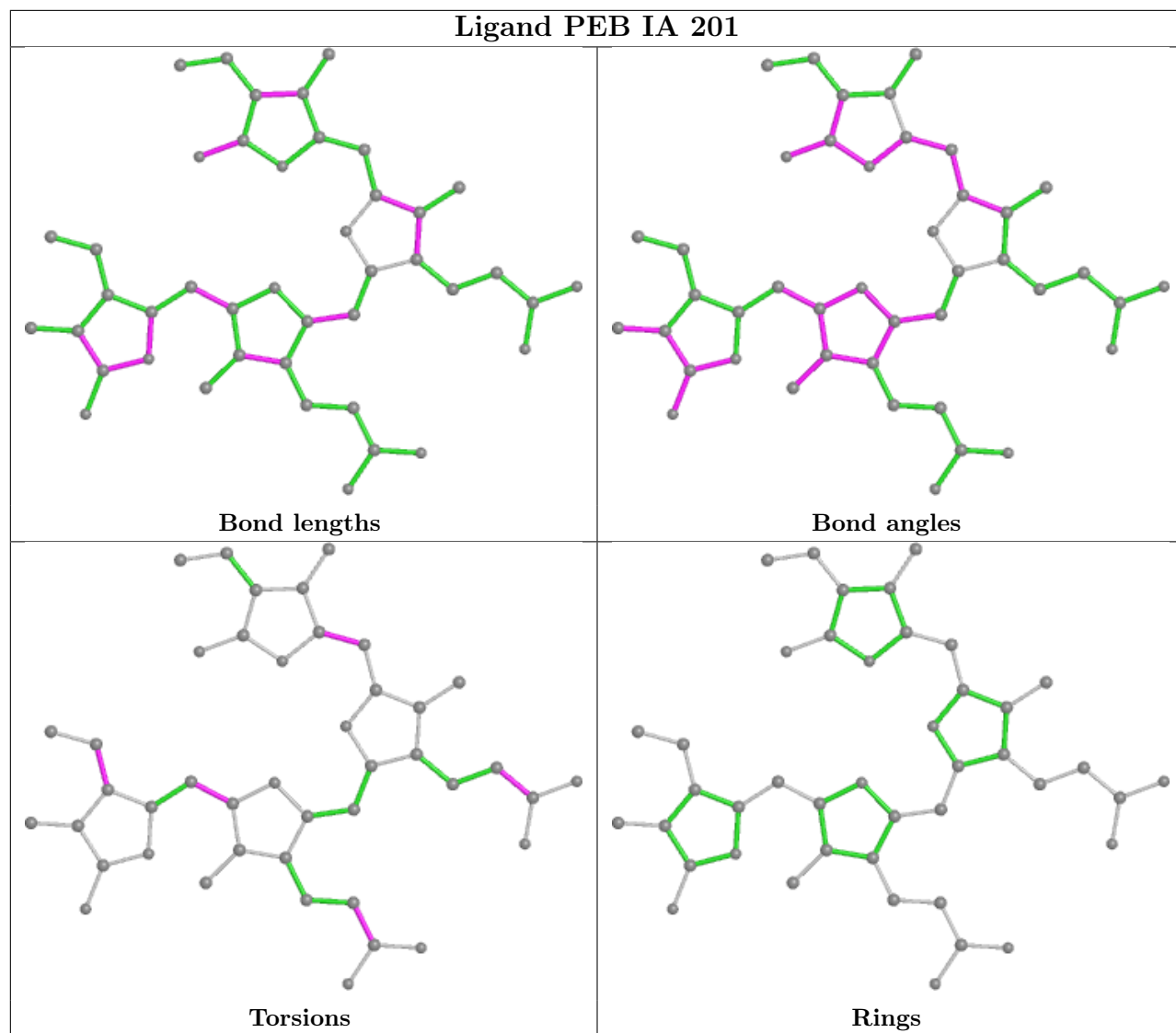


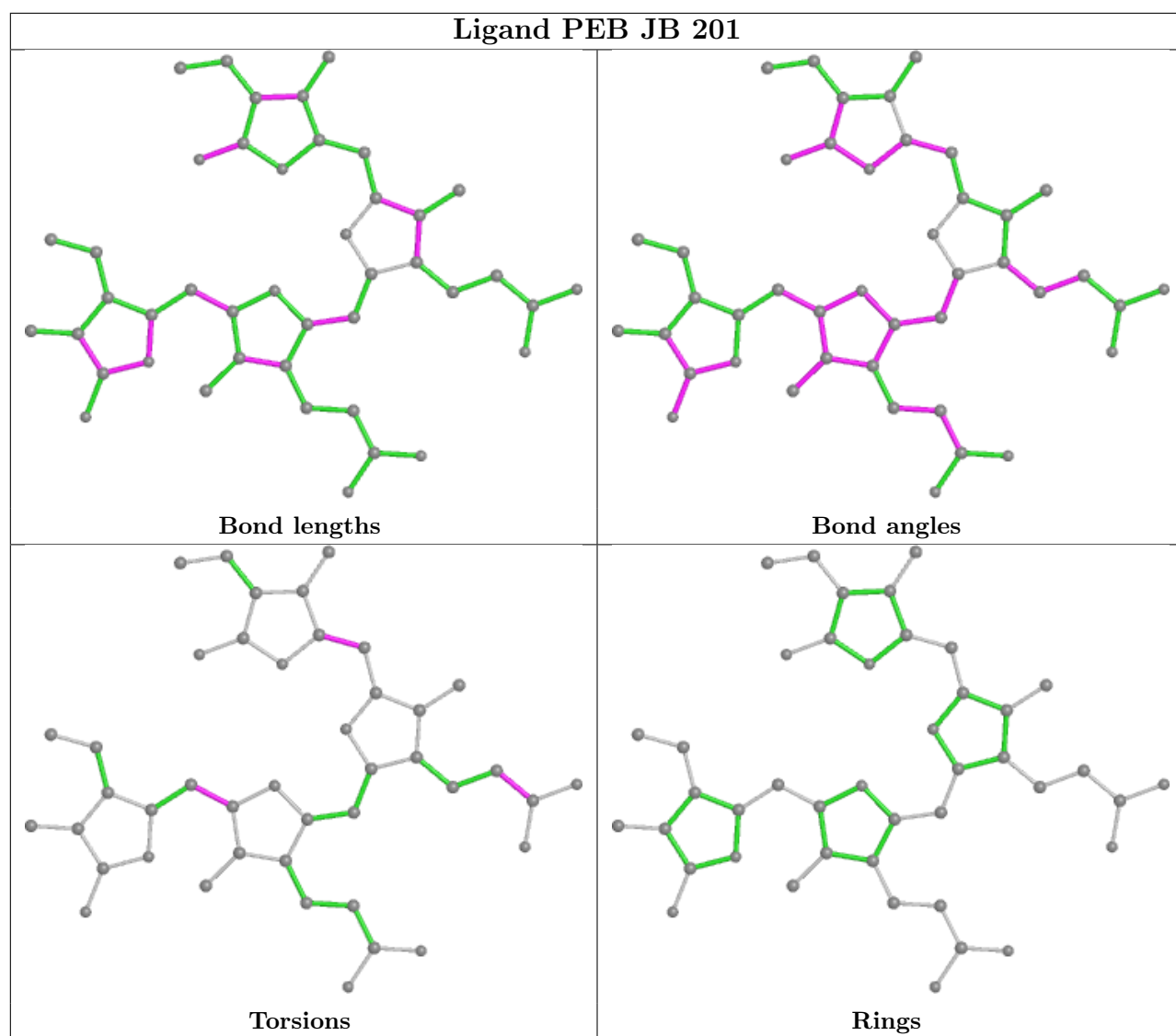
Torsions

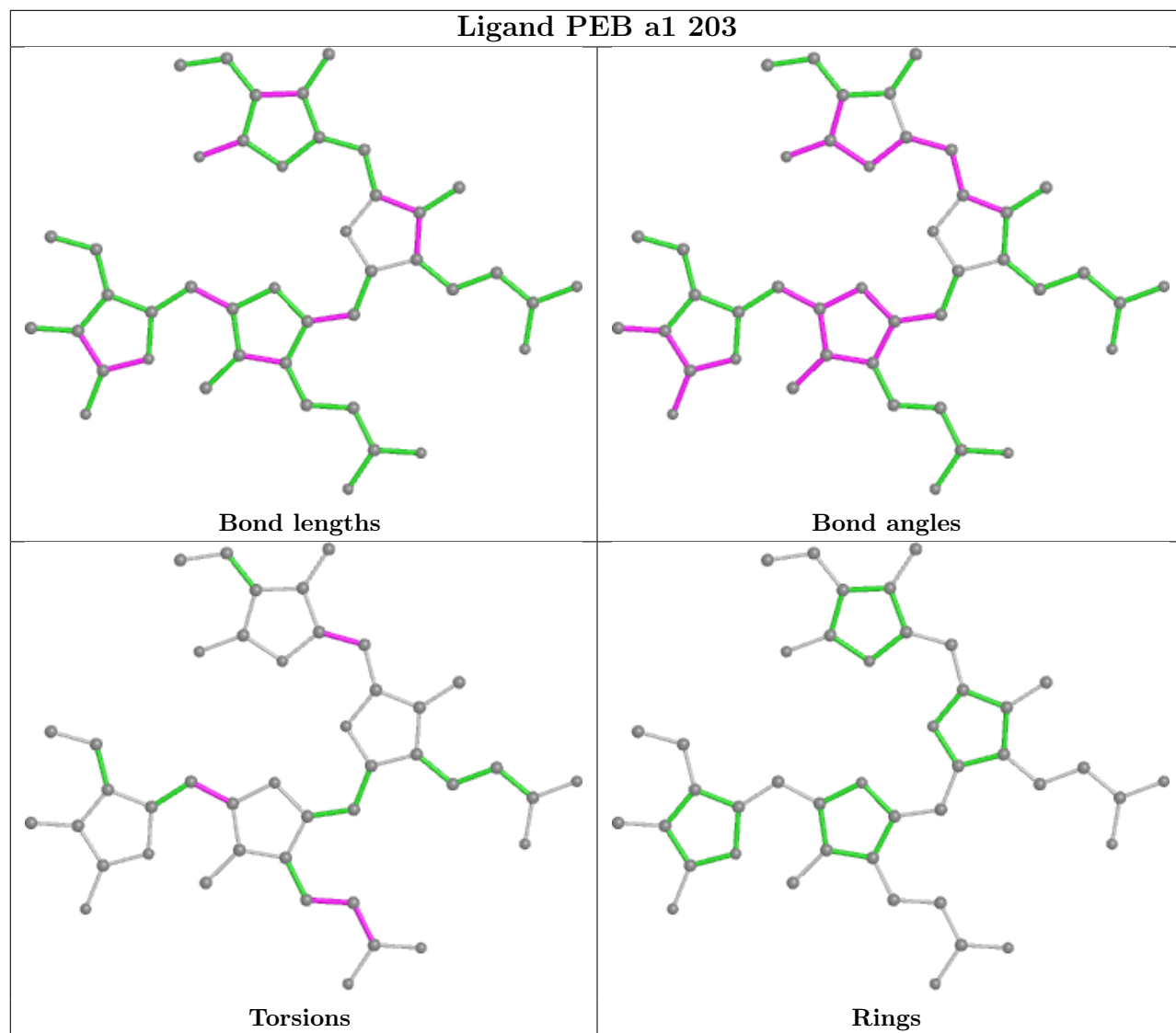


Rings

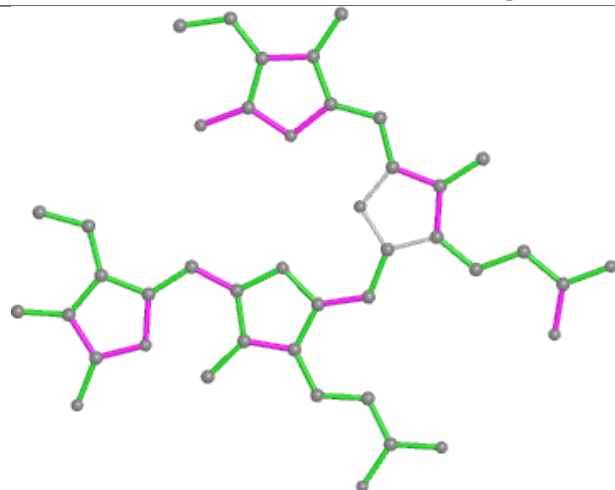




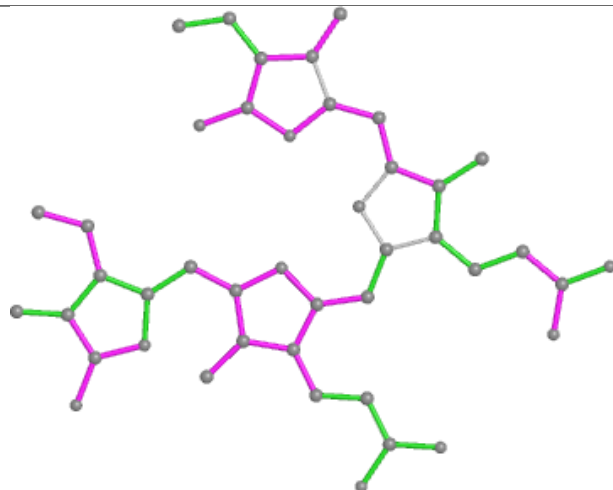




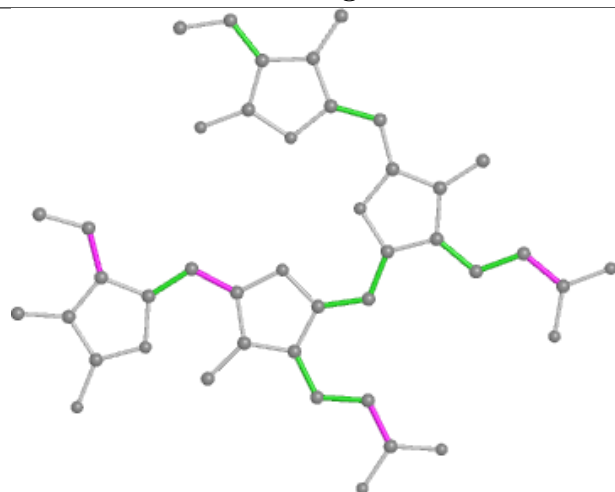
Ligand PEB F1 1002



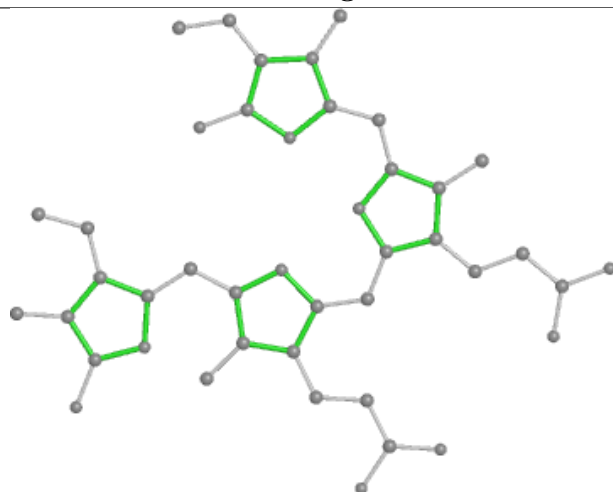
Bond lengths



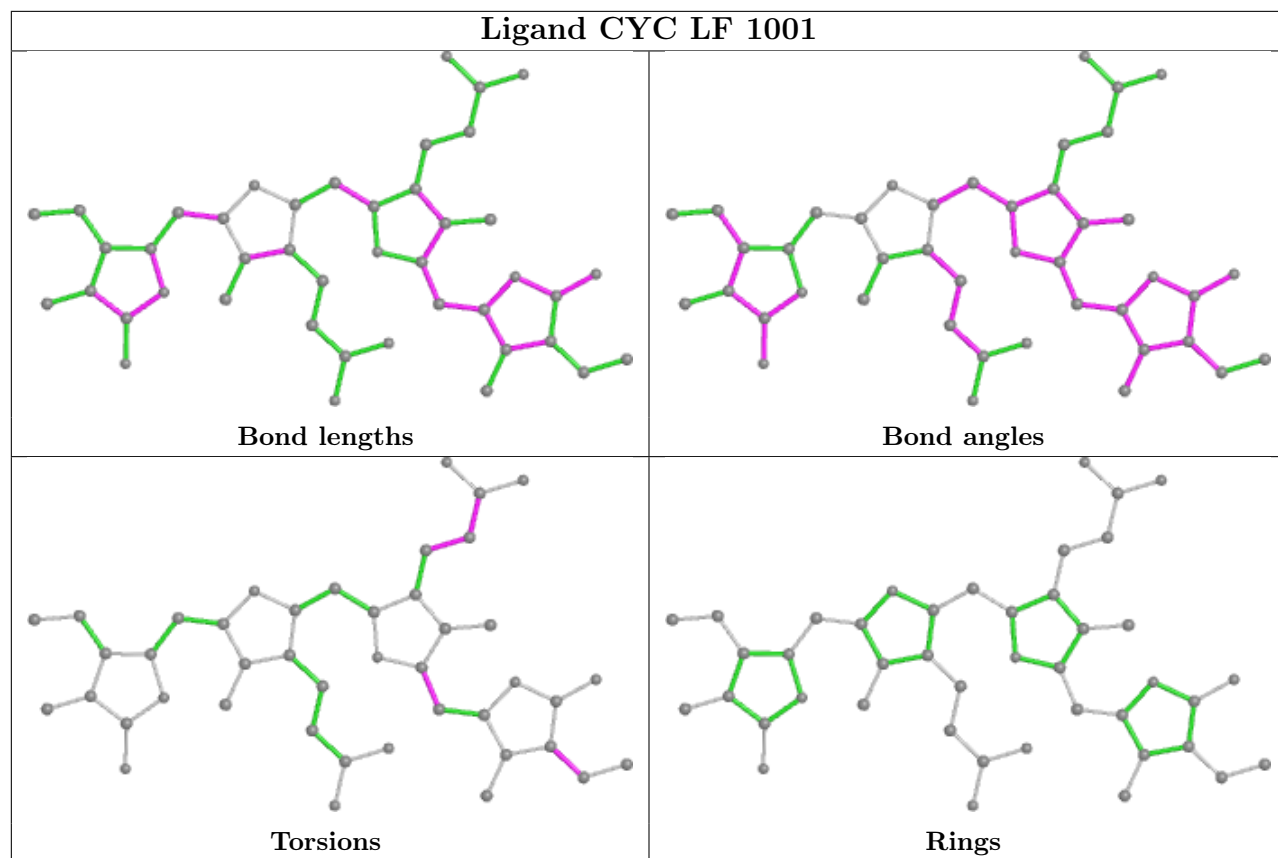
Bond angles

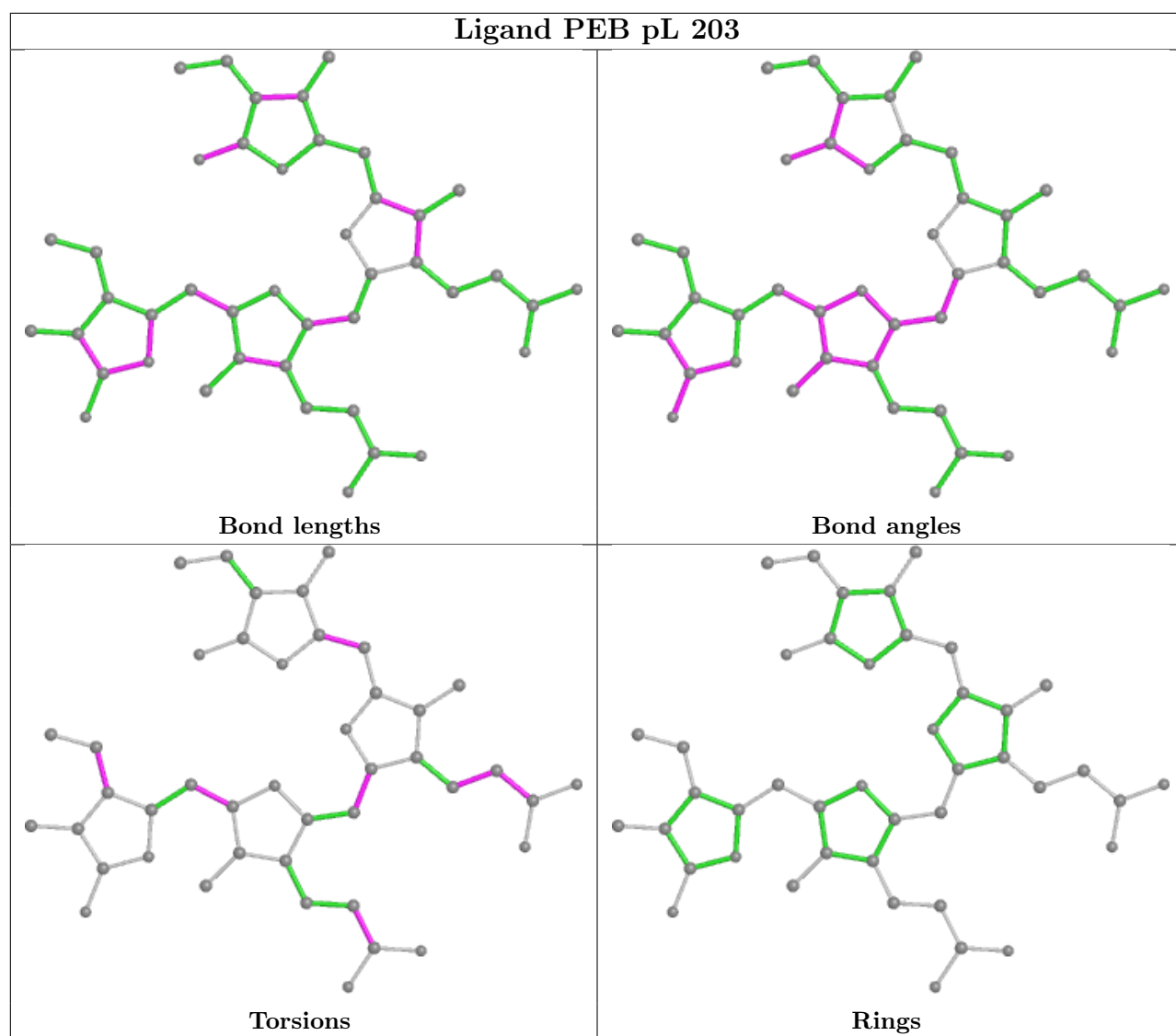


Torsions

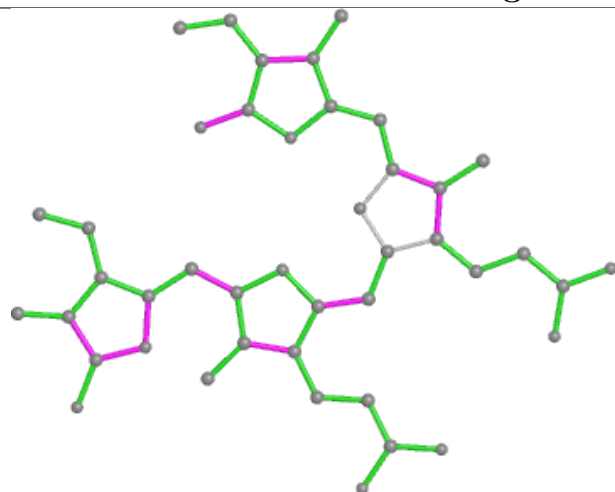


Rings

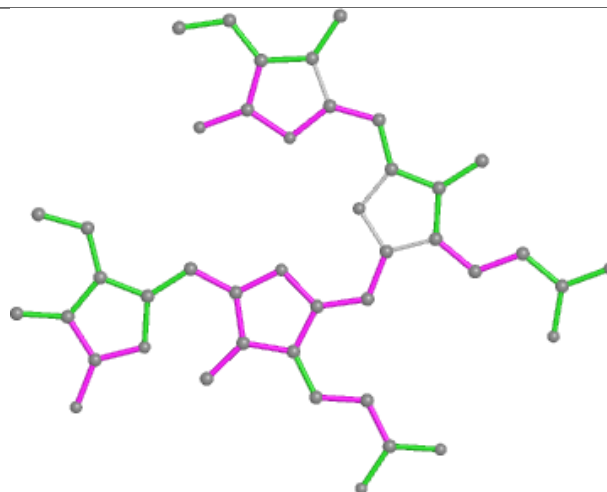




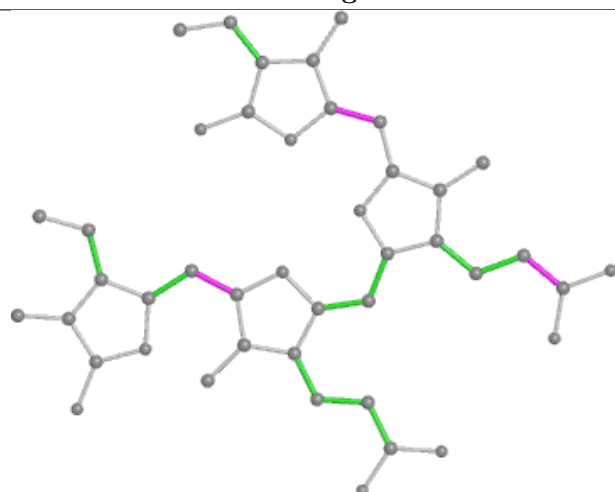
Ligand PEB XB 201



Bond lengths



Bond angles

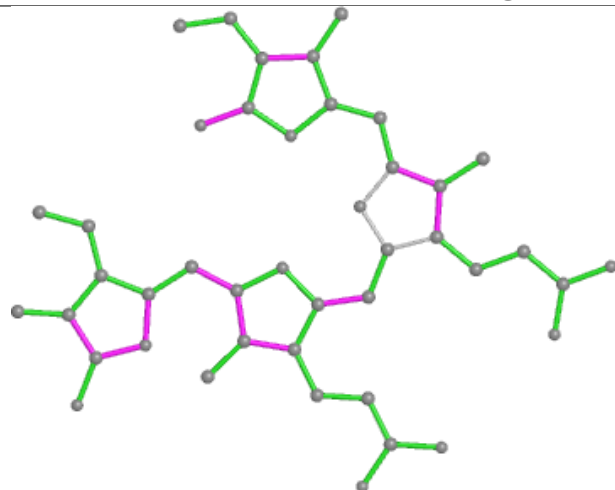


Torsions

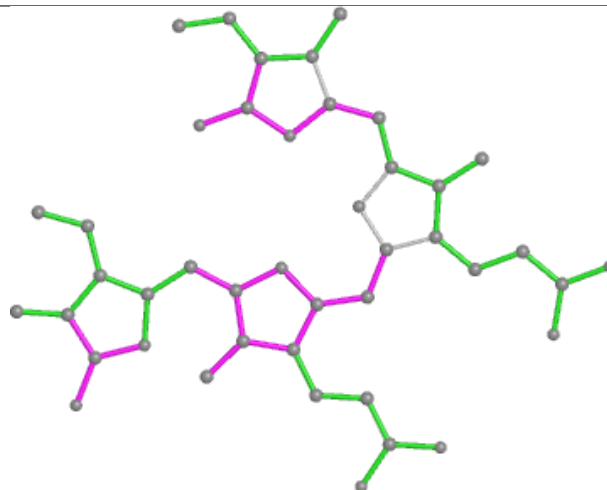


Rings

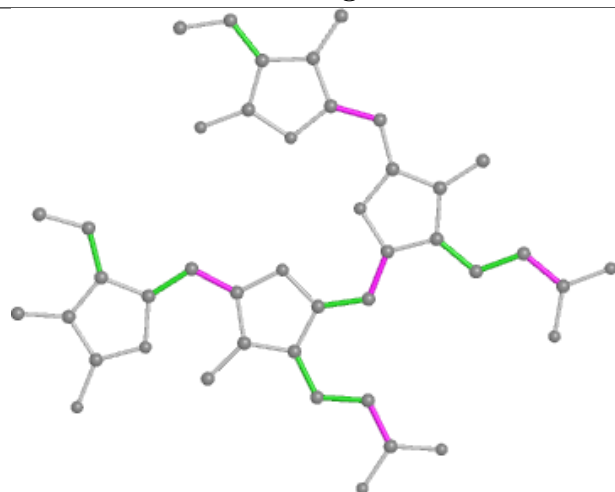
Ligand PEB MO 203



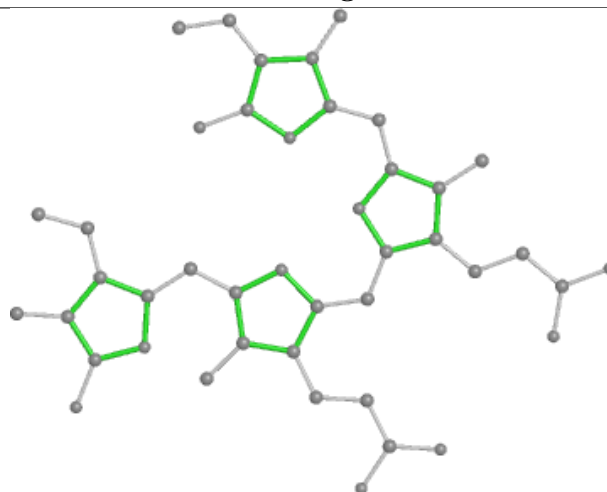
Bond lengths



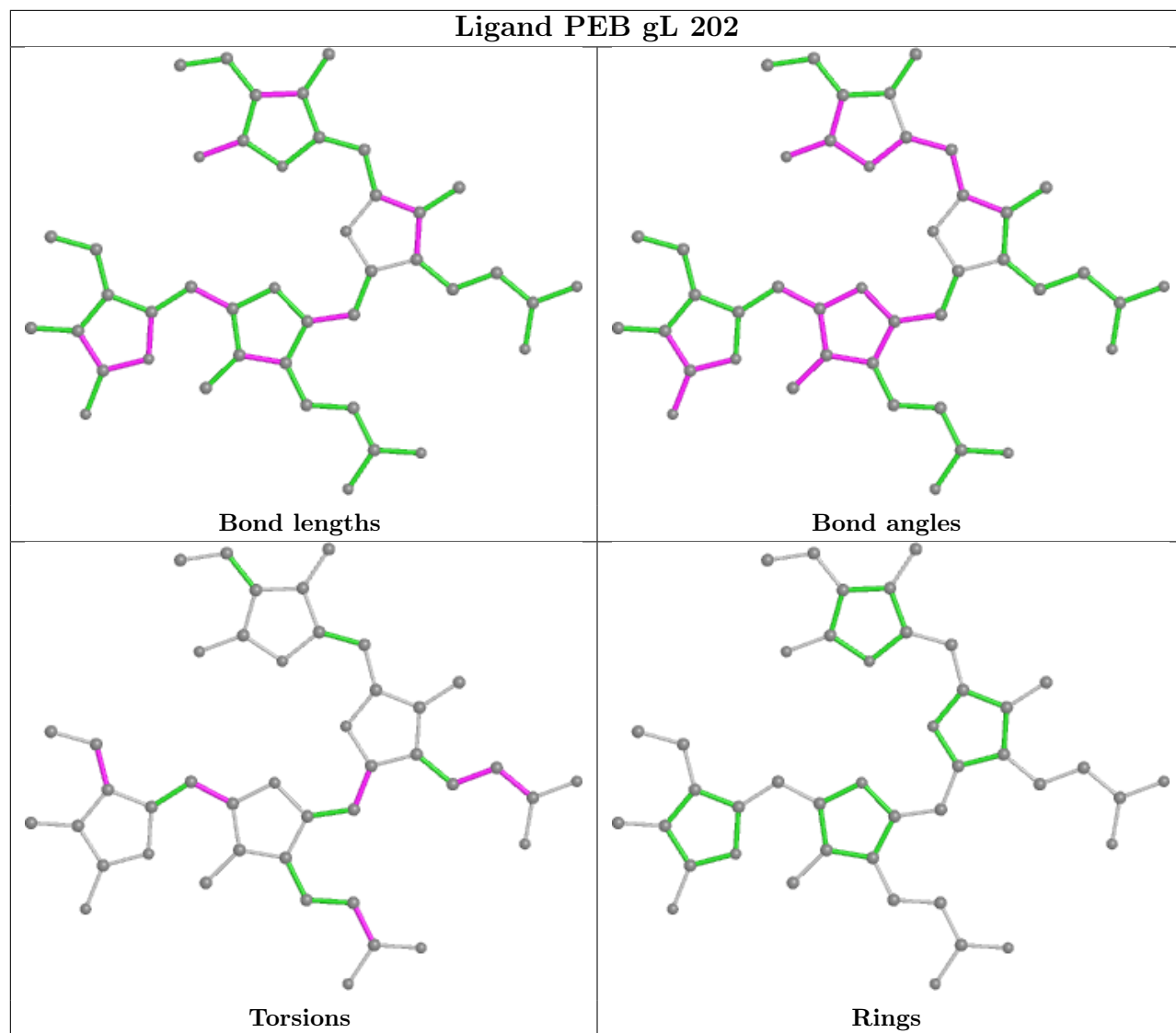
Bond angles



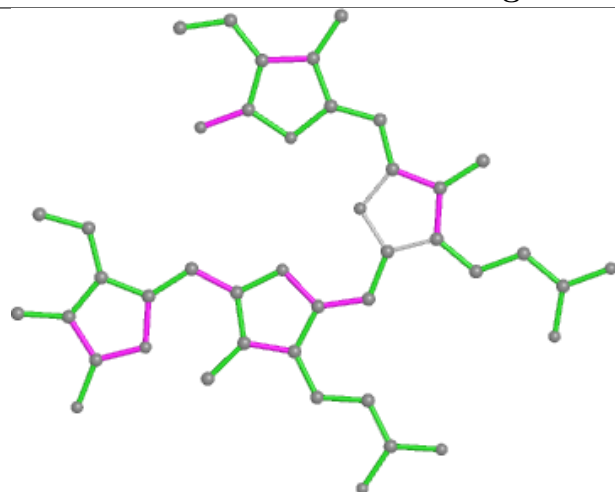
Torsions



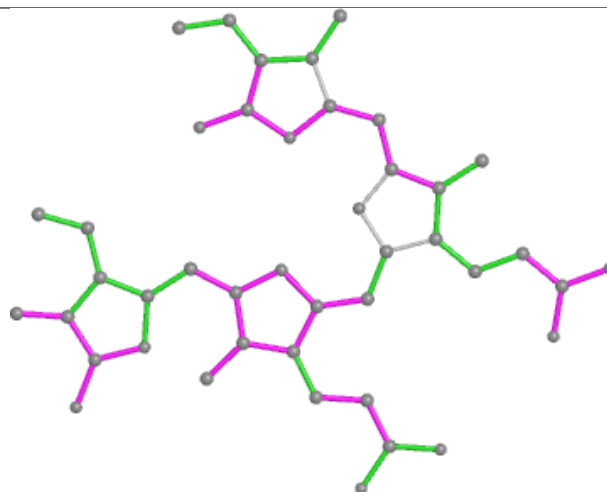
Rings



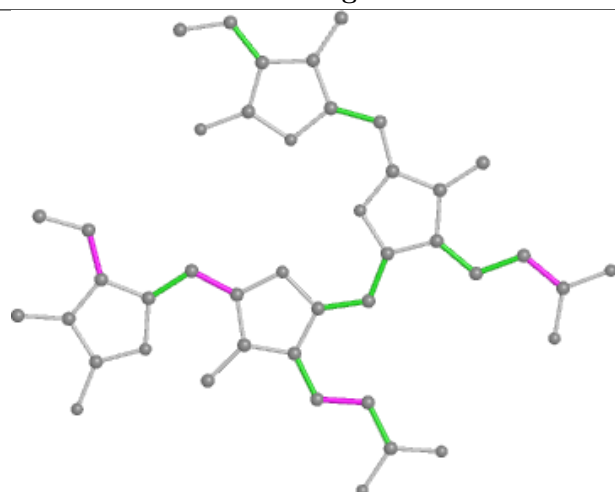
Ligand PEB UR 201



Bond lengths



Bond angles

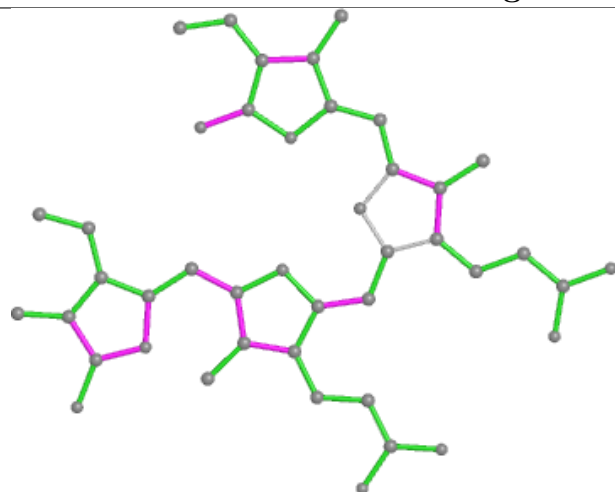


Torsions

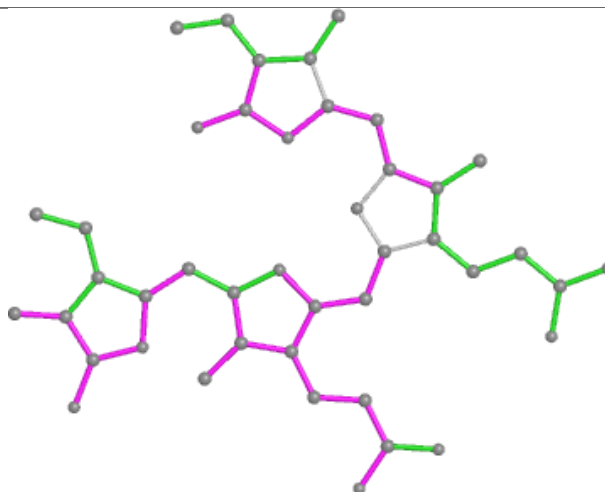


Rings

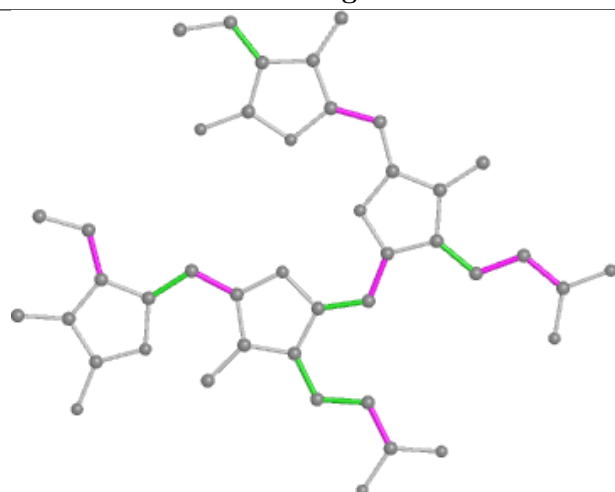
Ligand PEB JM 203



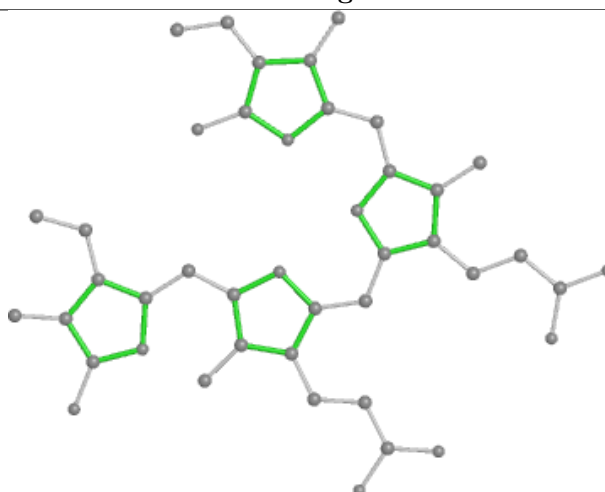
Bond lengths



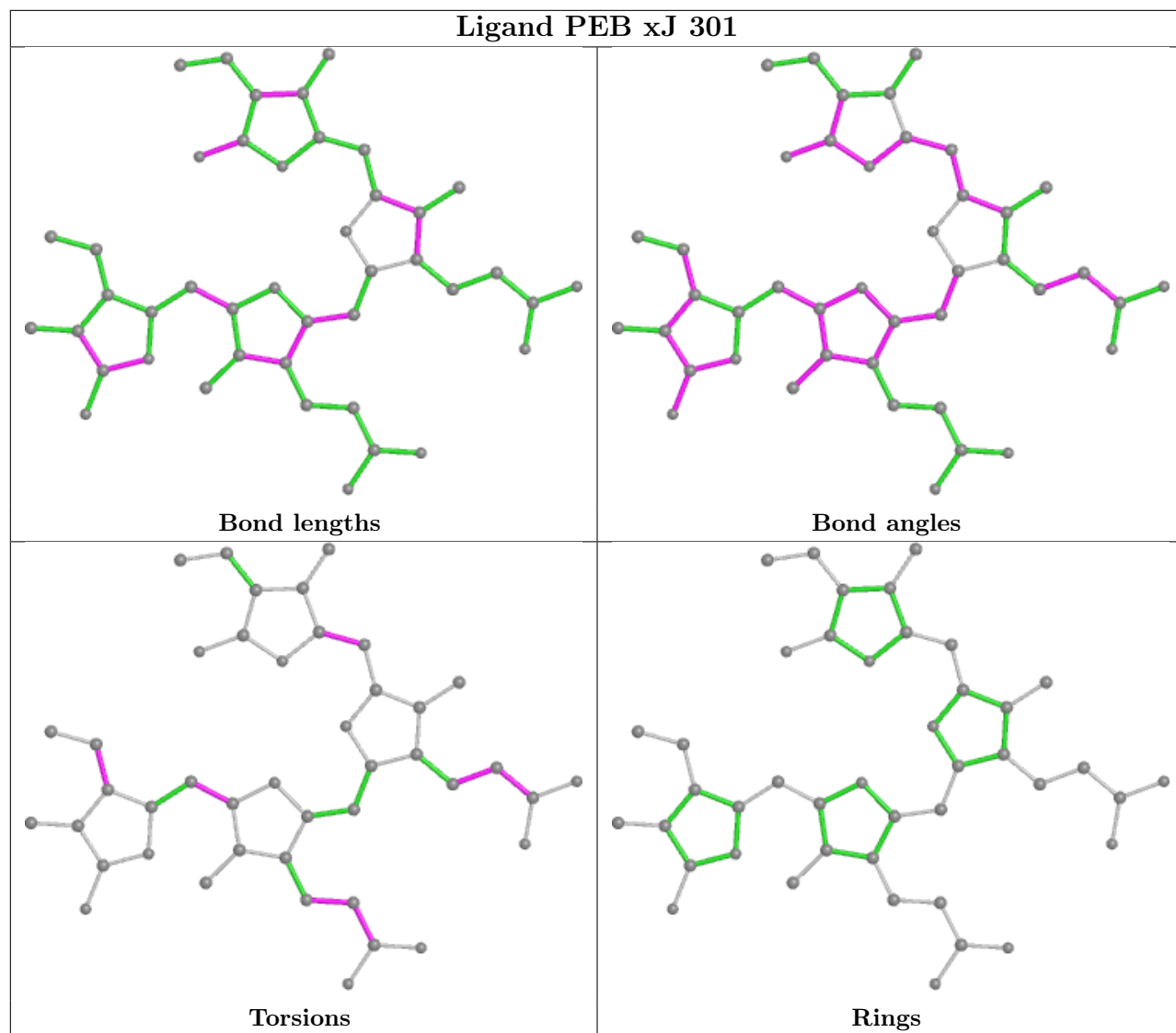
Bond angles



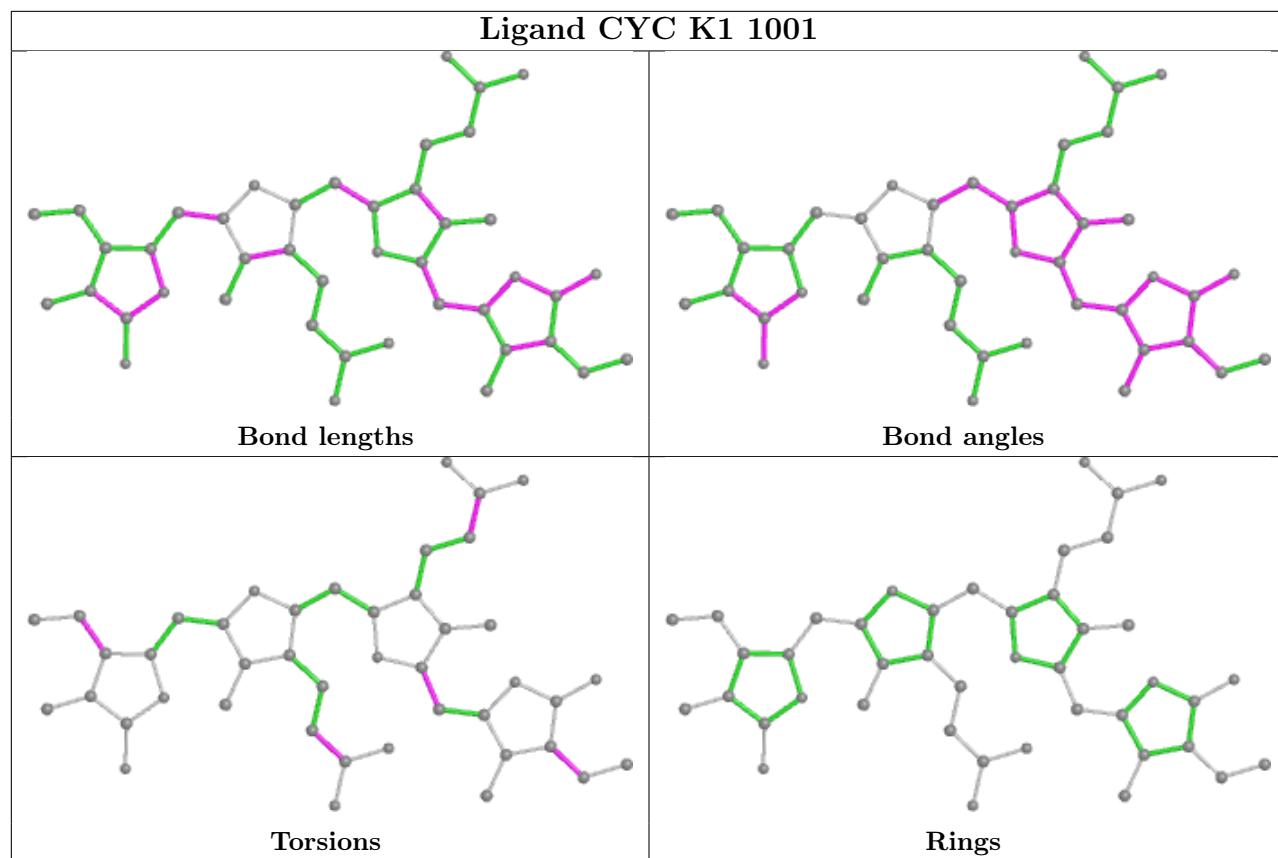
Torsions



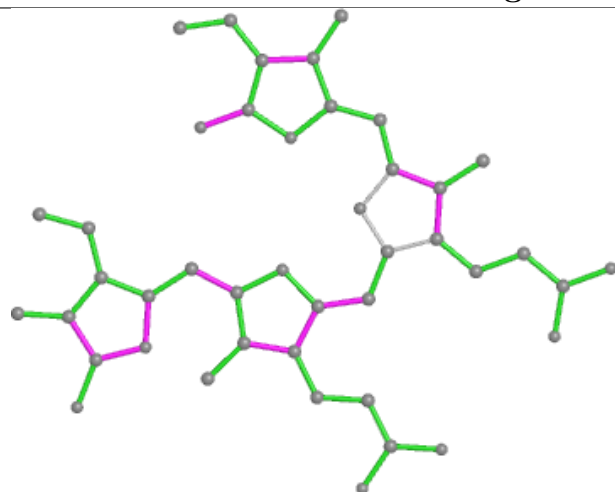
Rings



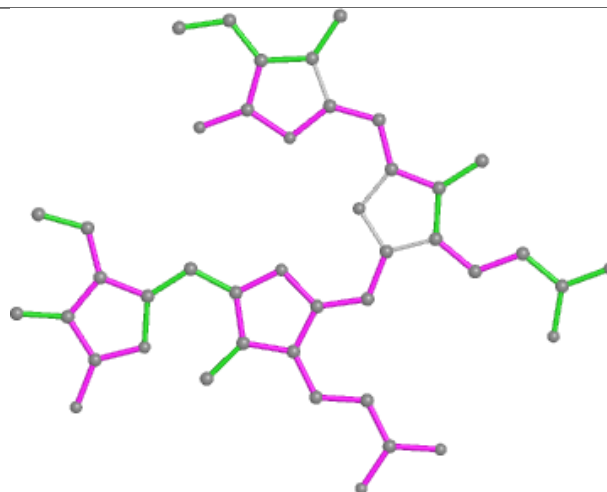
Ligand CYC K1 1001



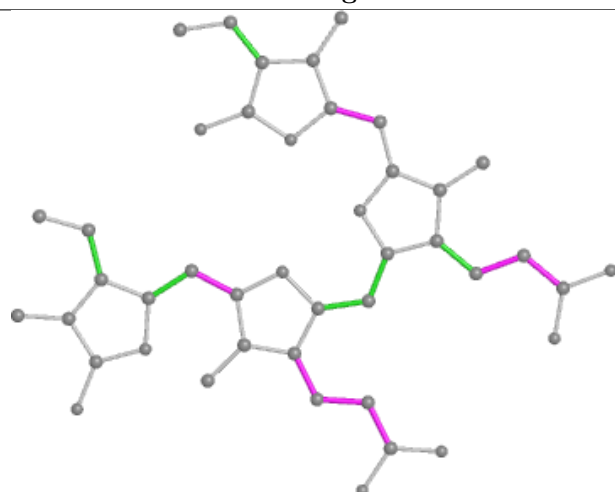
Ligand PEB FN 201



Bond lengths



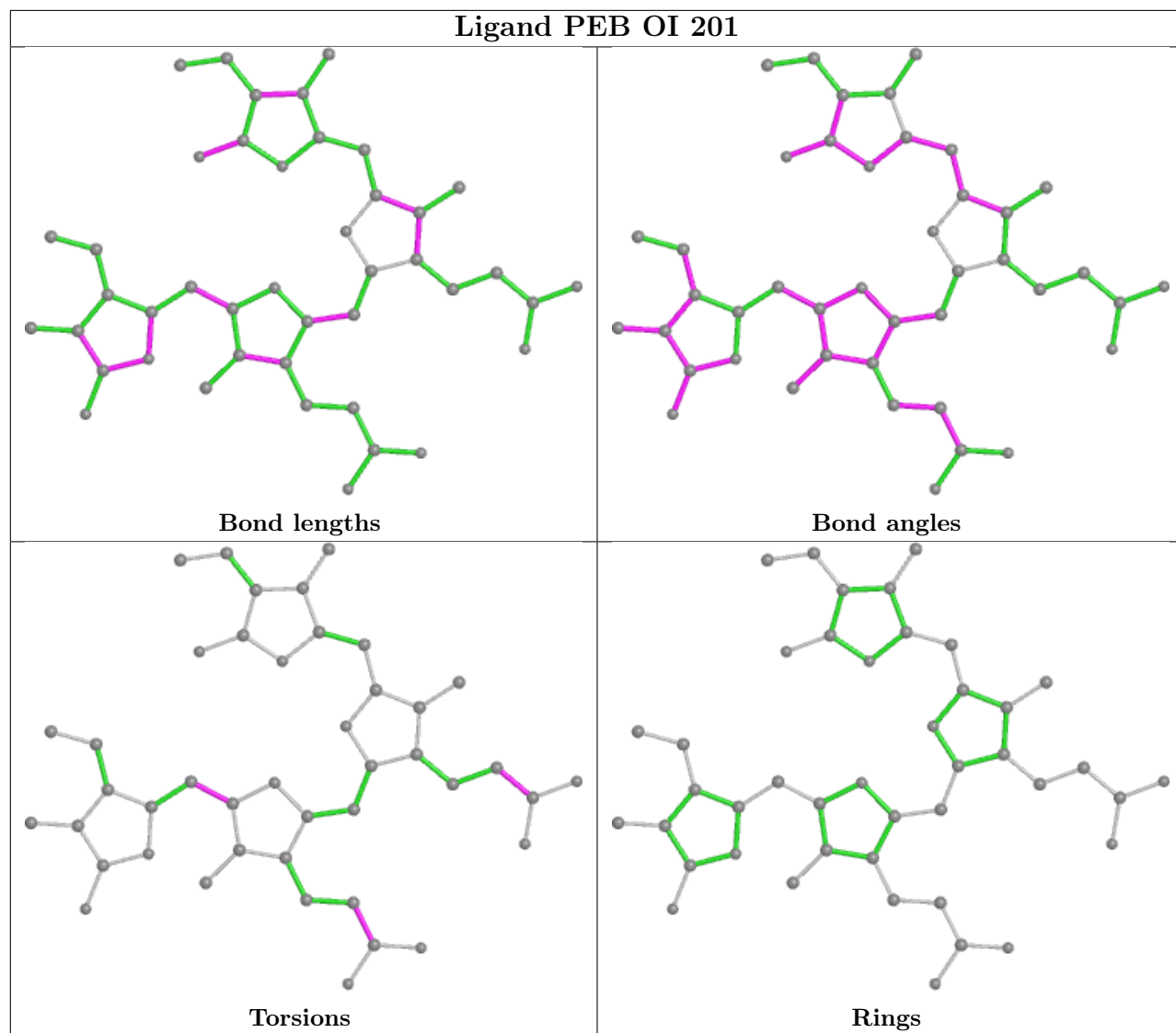
Bond angles



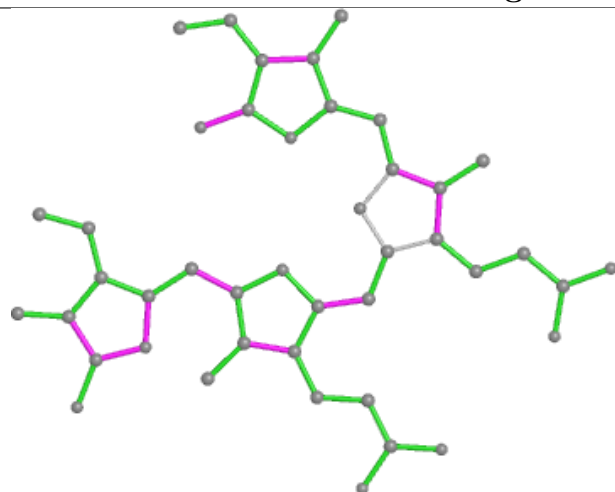
Torsions



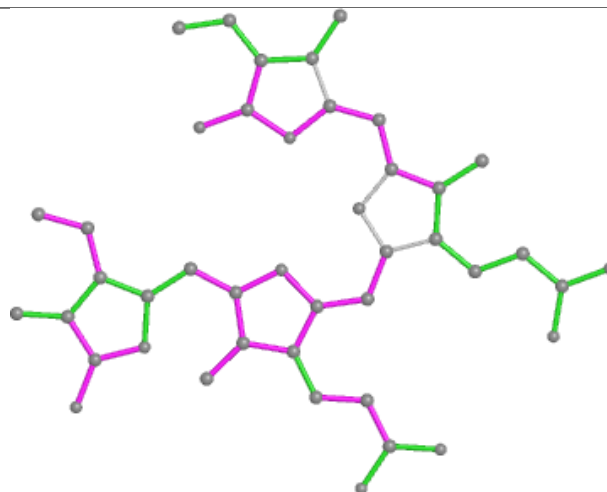
Rings



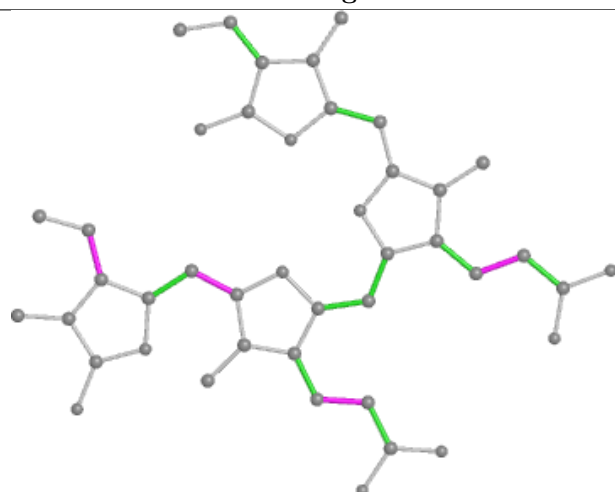
Ligand PEB LG 202



Bond lengths



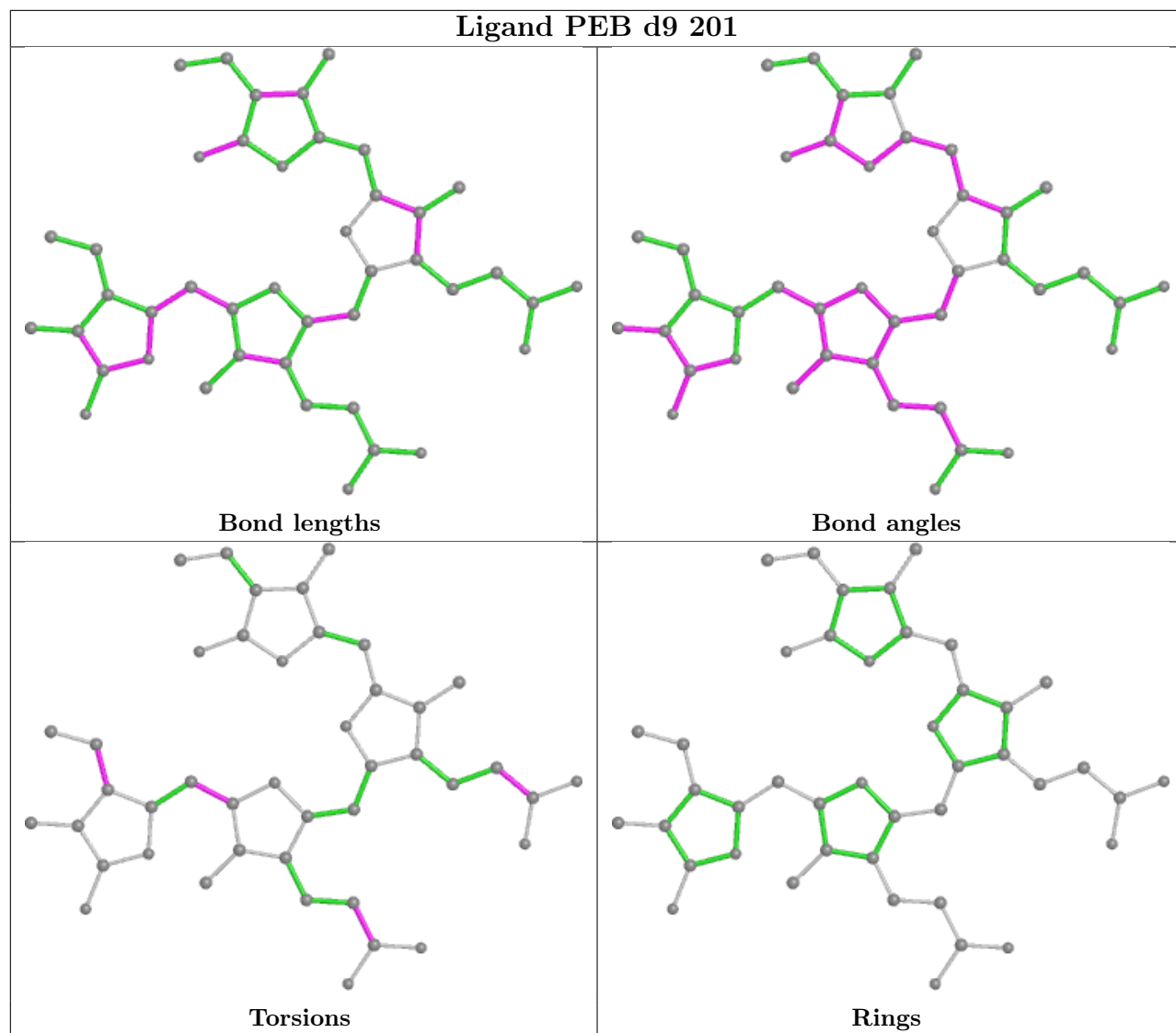
Bond angles

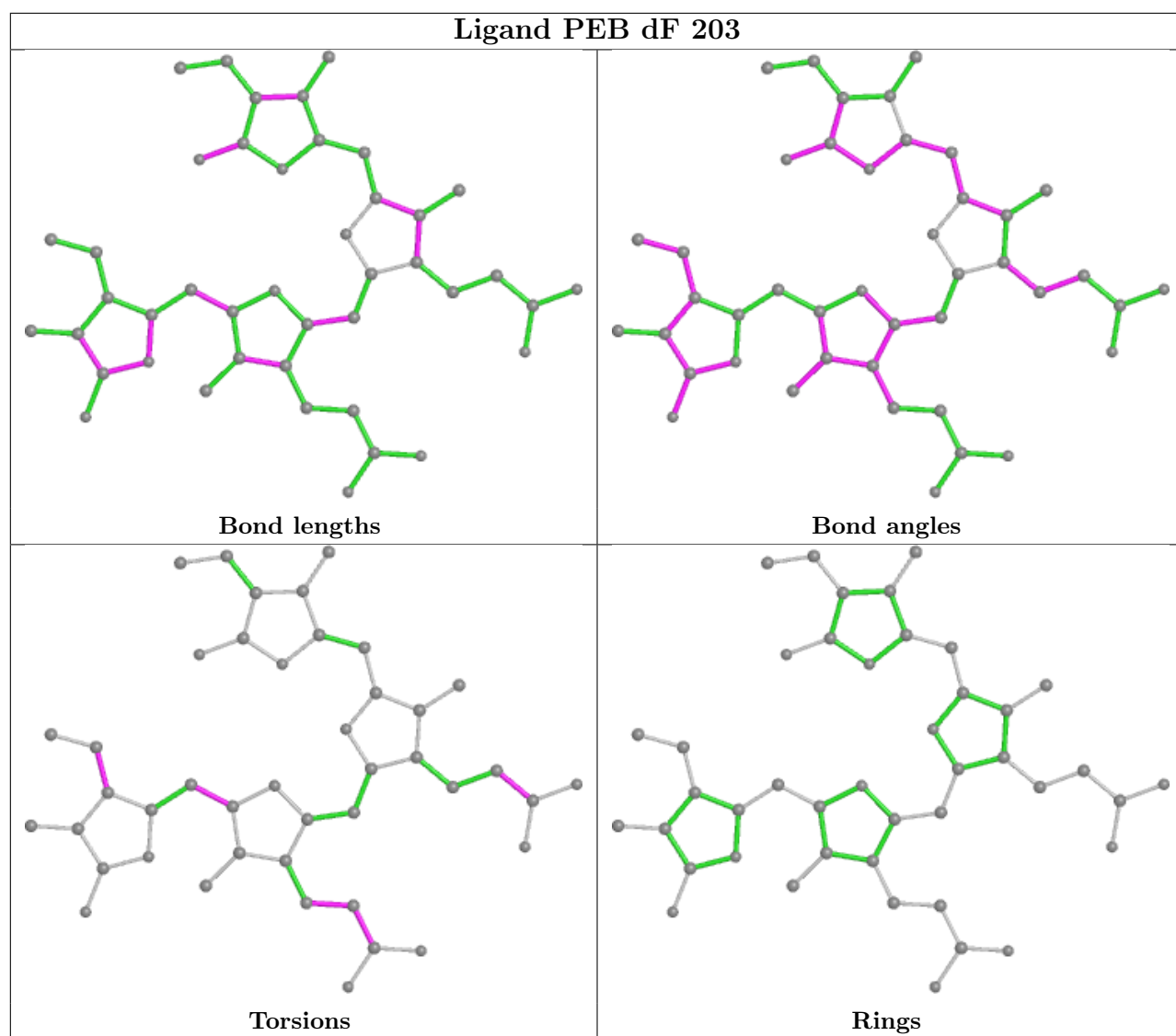


Torsions

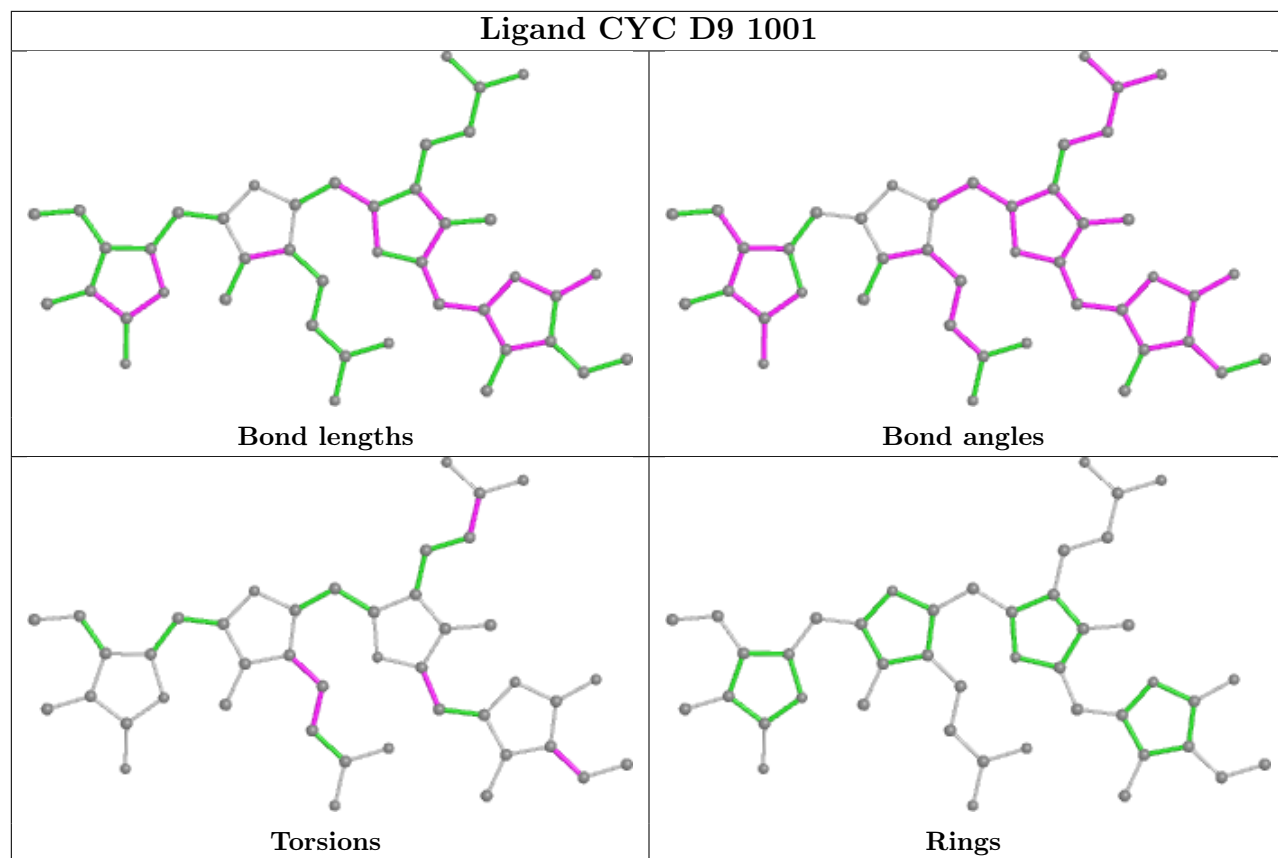


Rings

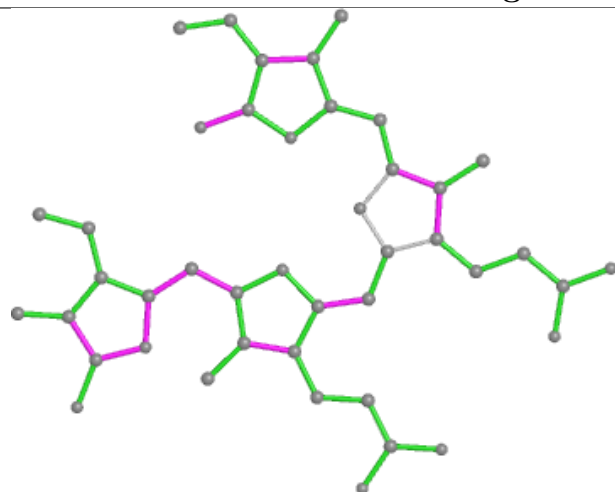




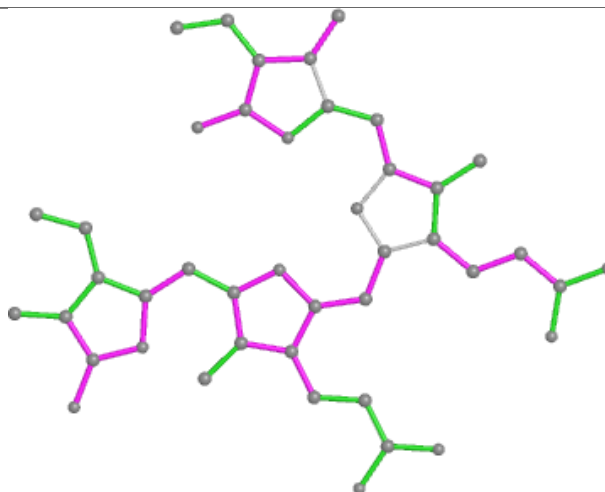
Ligand CYC D9 1001



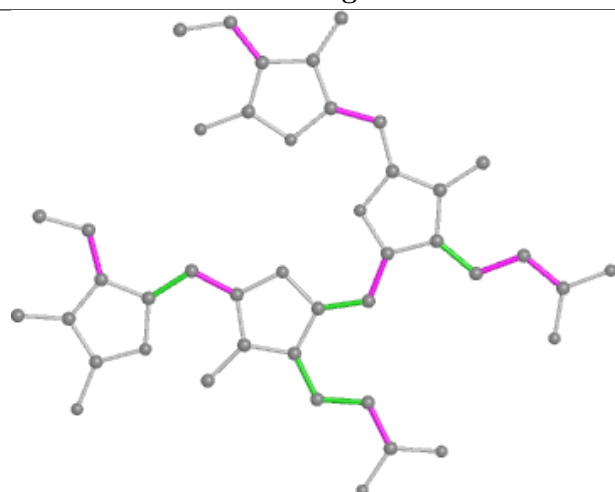
Ligand PEB CD 202



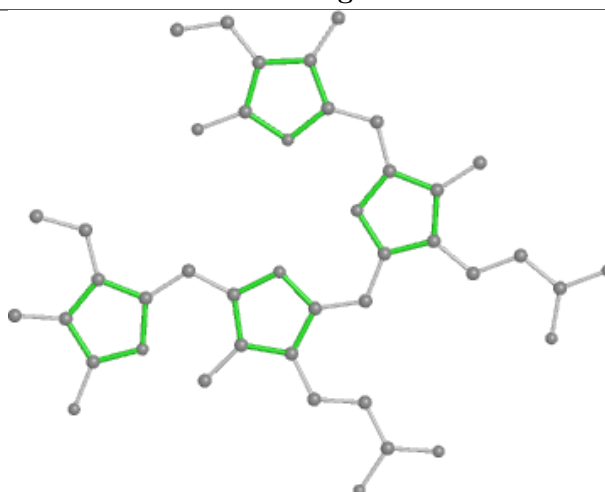
Bond lengths



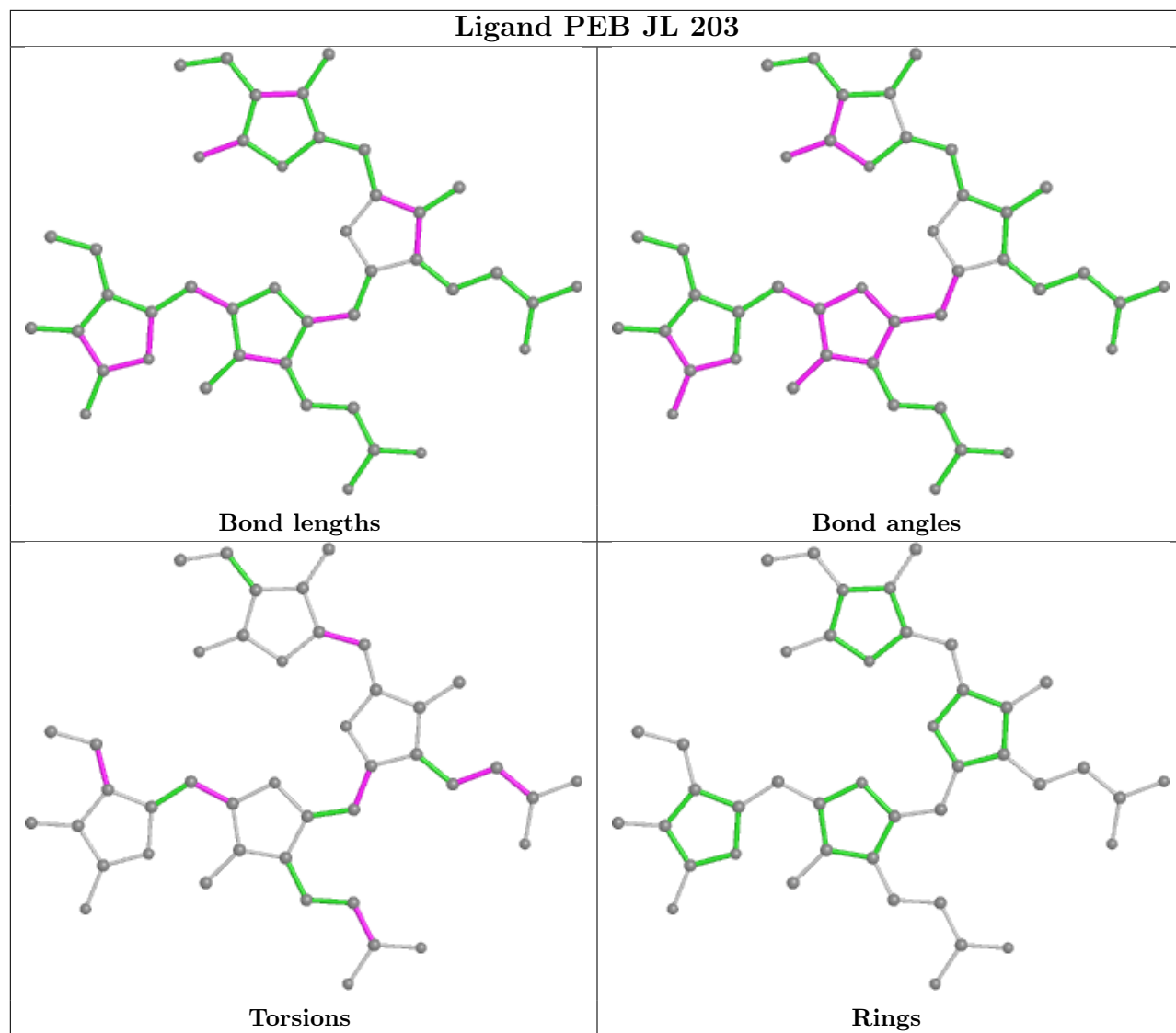
Bond angles

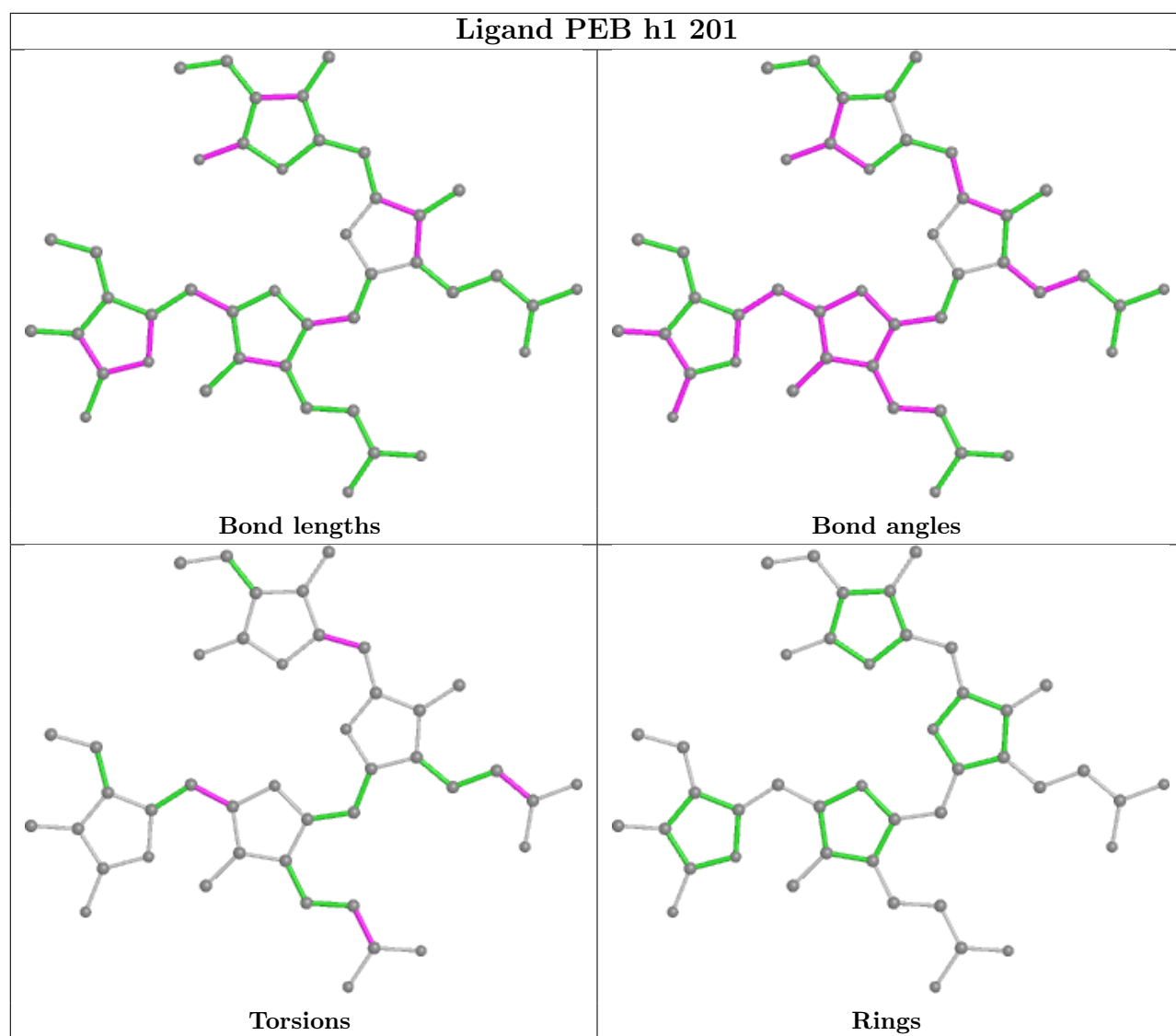


Torsions

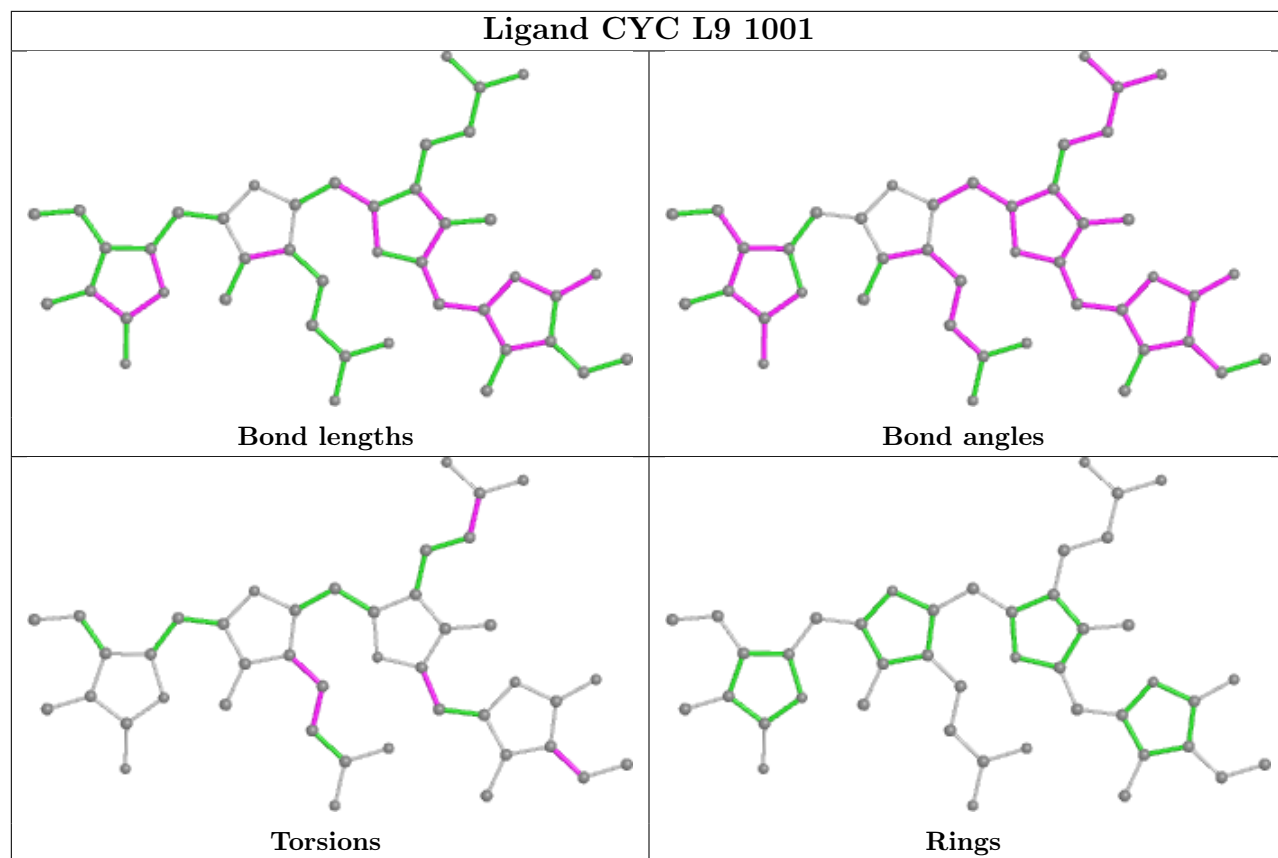


Rings

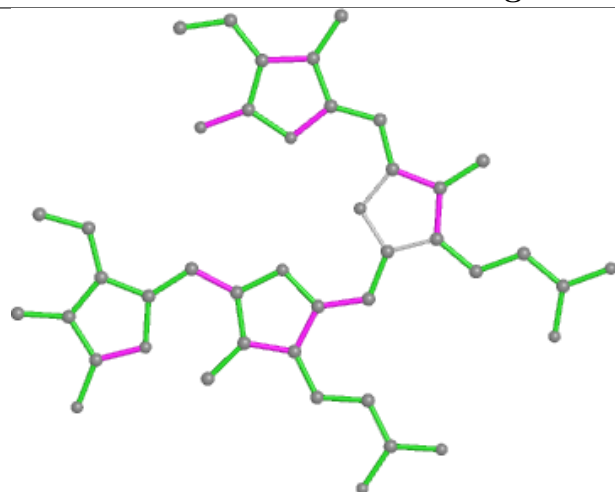




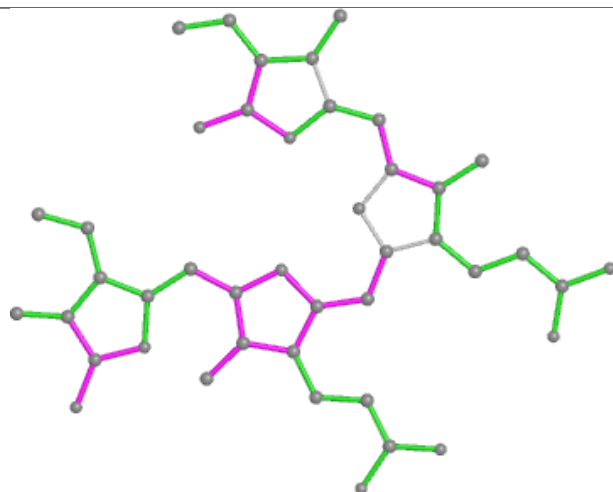
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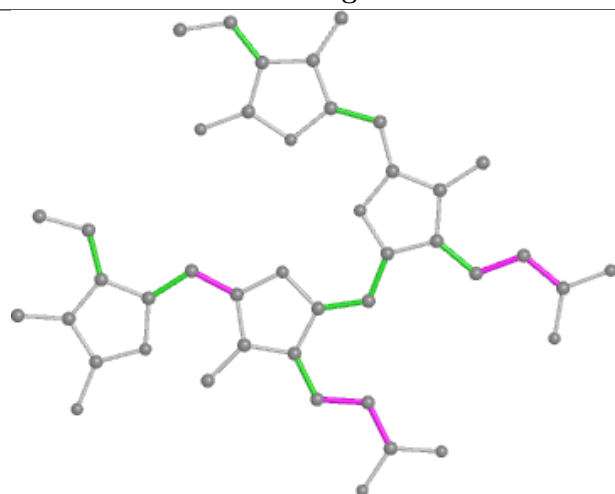
Ligand PEB AE 202



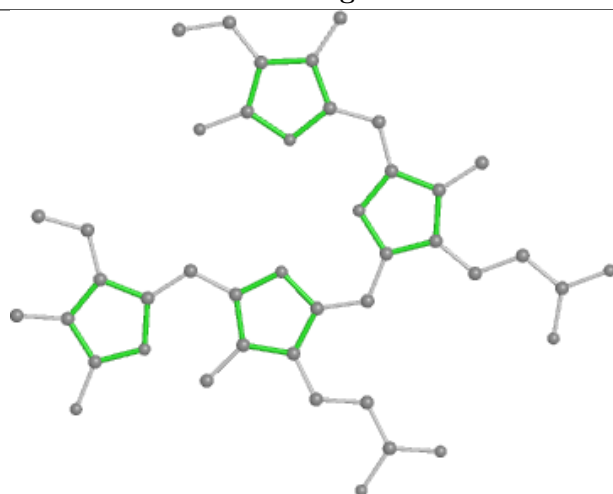
Bond lengths



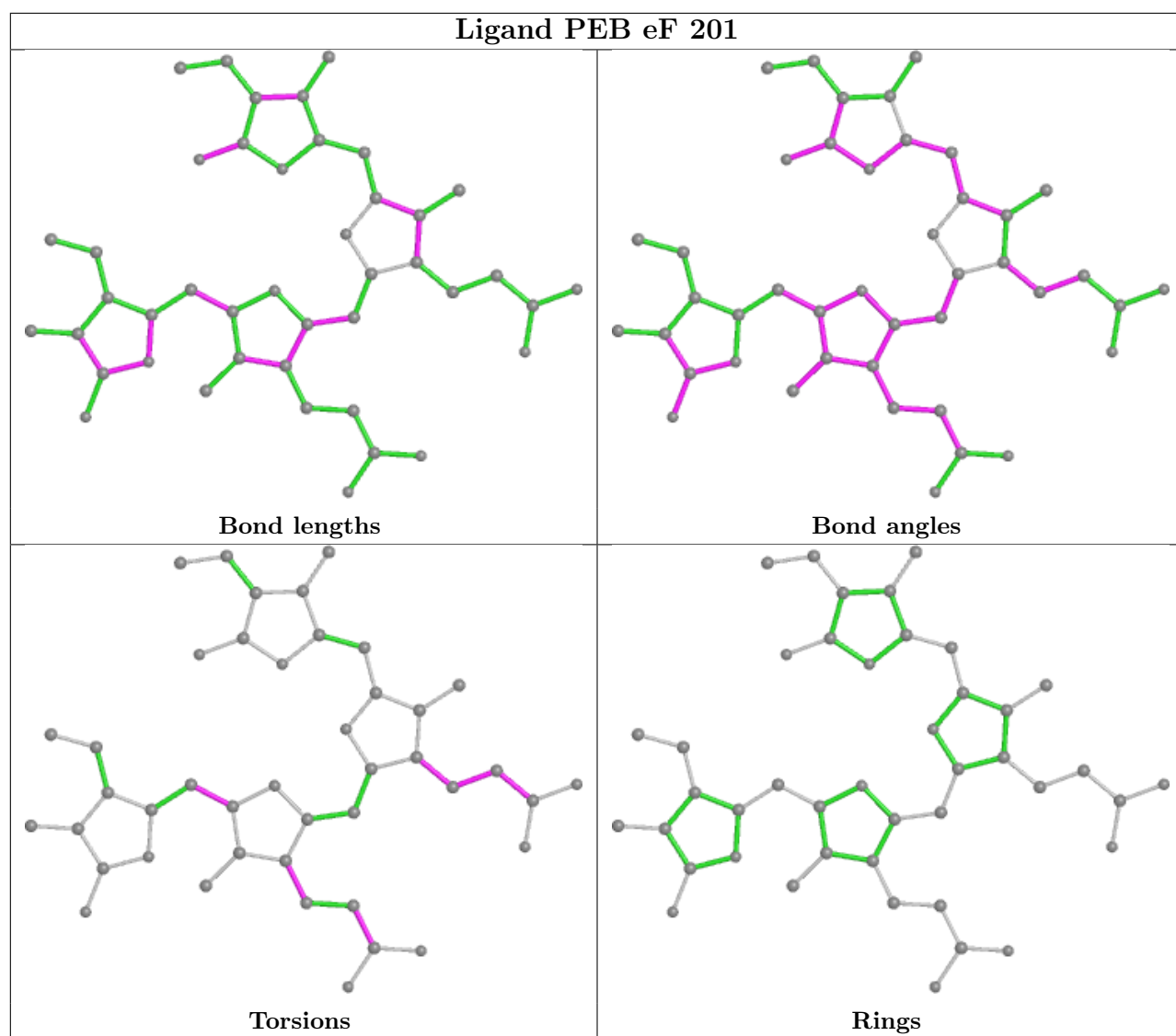
Bond angles



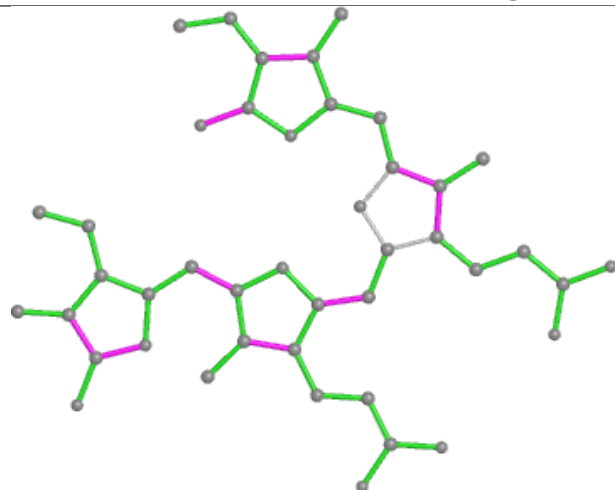
Torsions



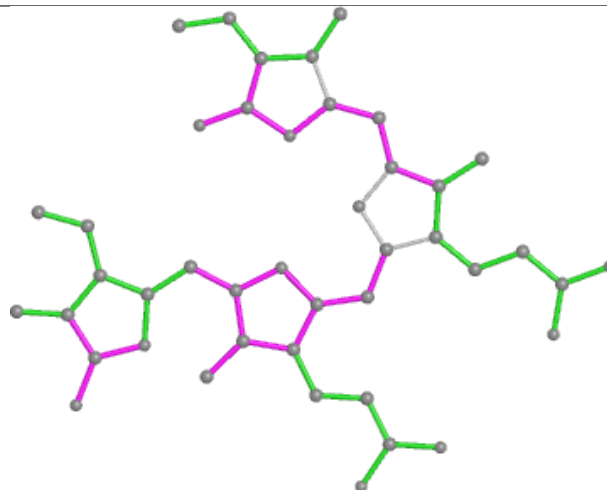
Rings



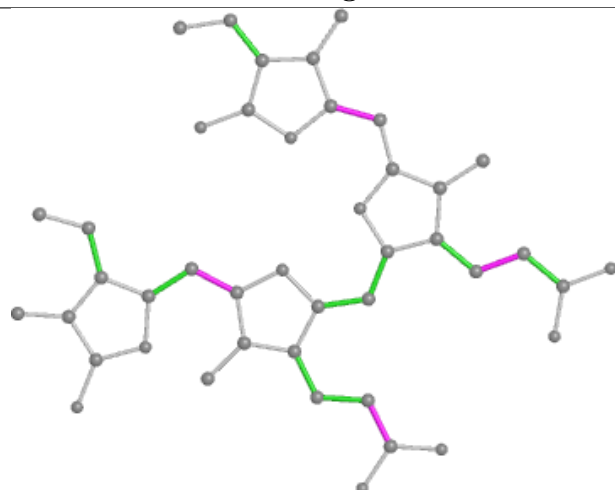
Ligand PEB AE 201



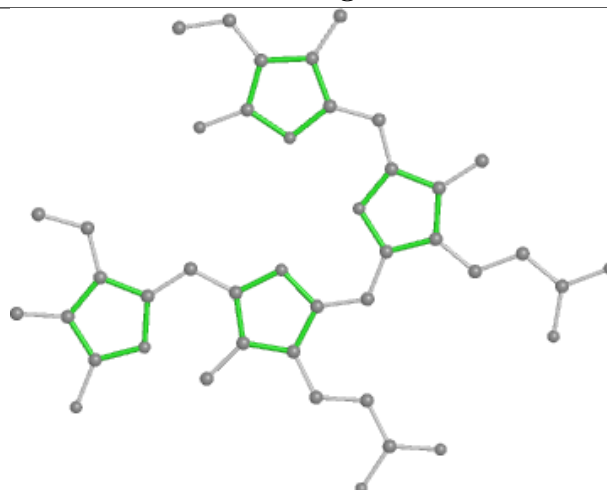
Bond lengths



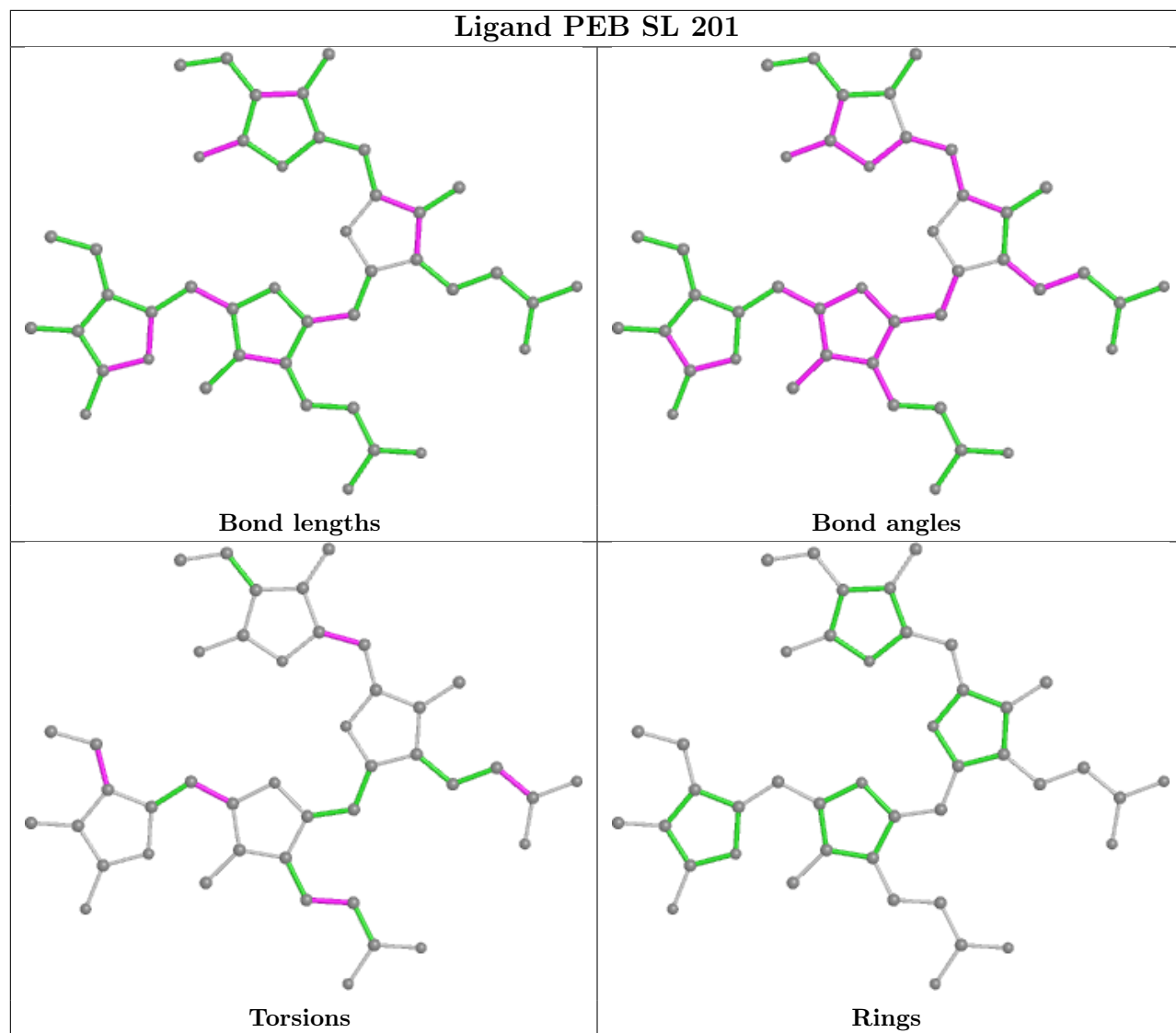
Bond angles

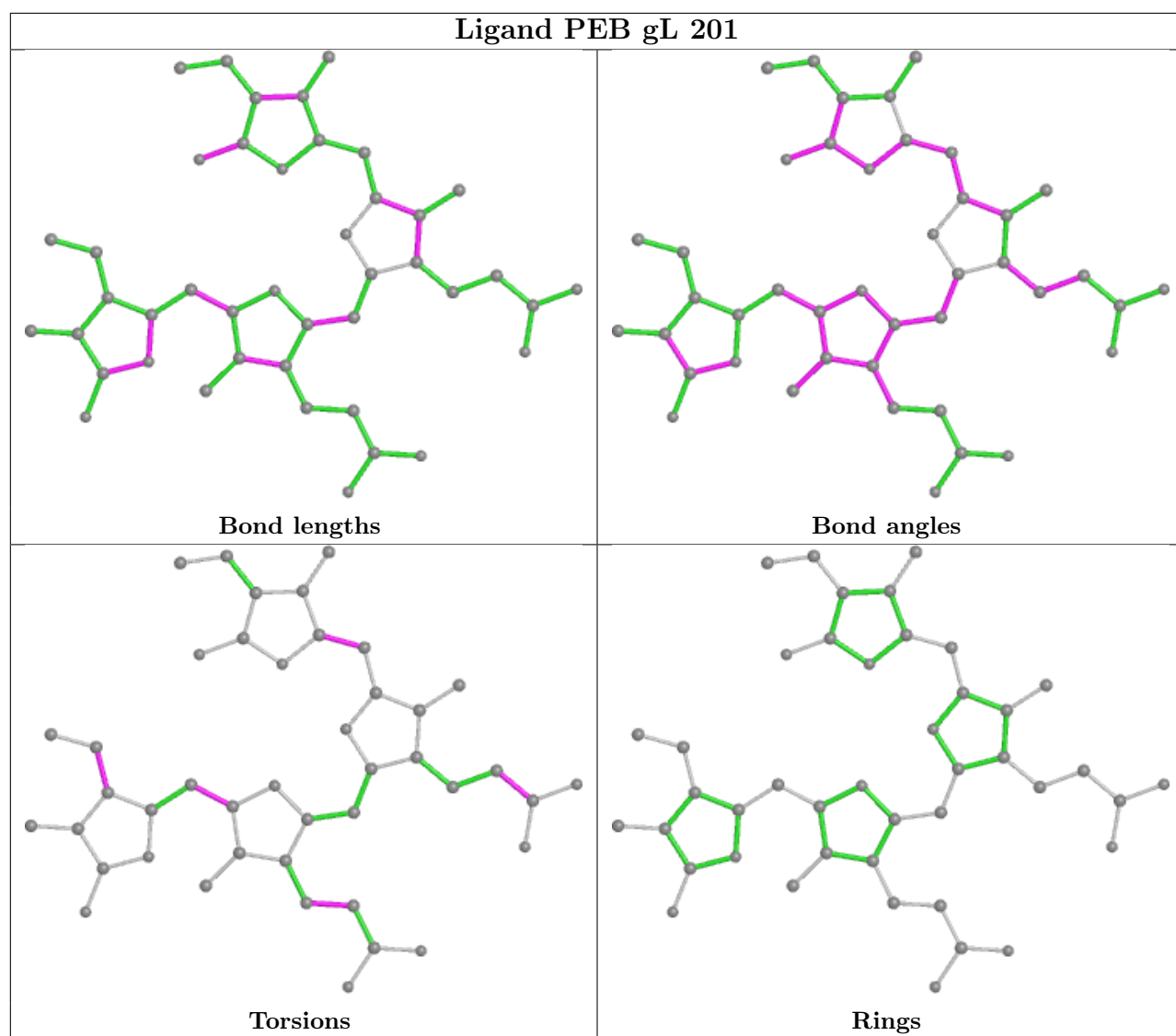


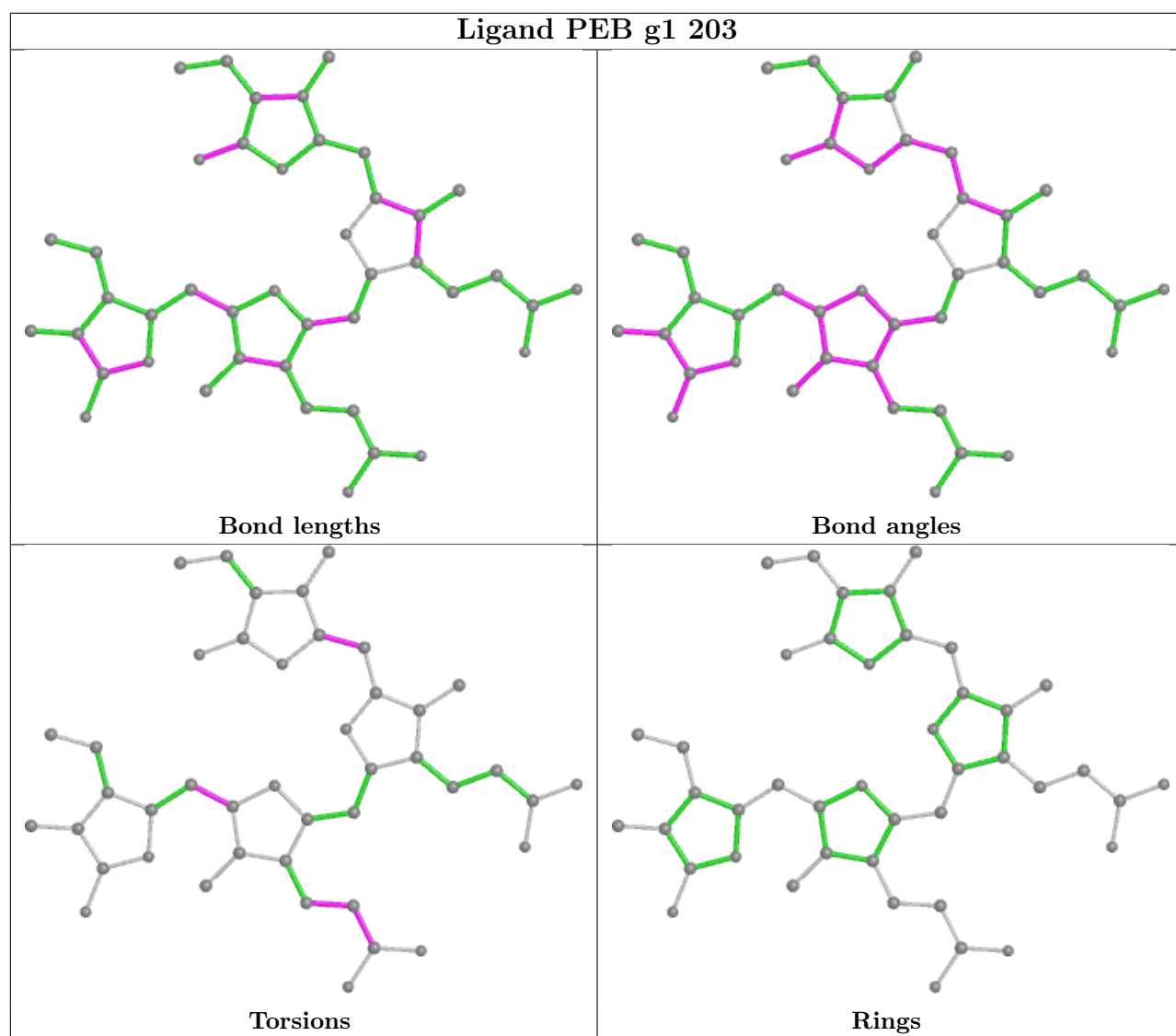
Torsions

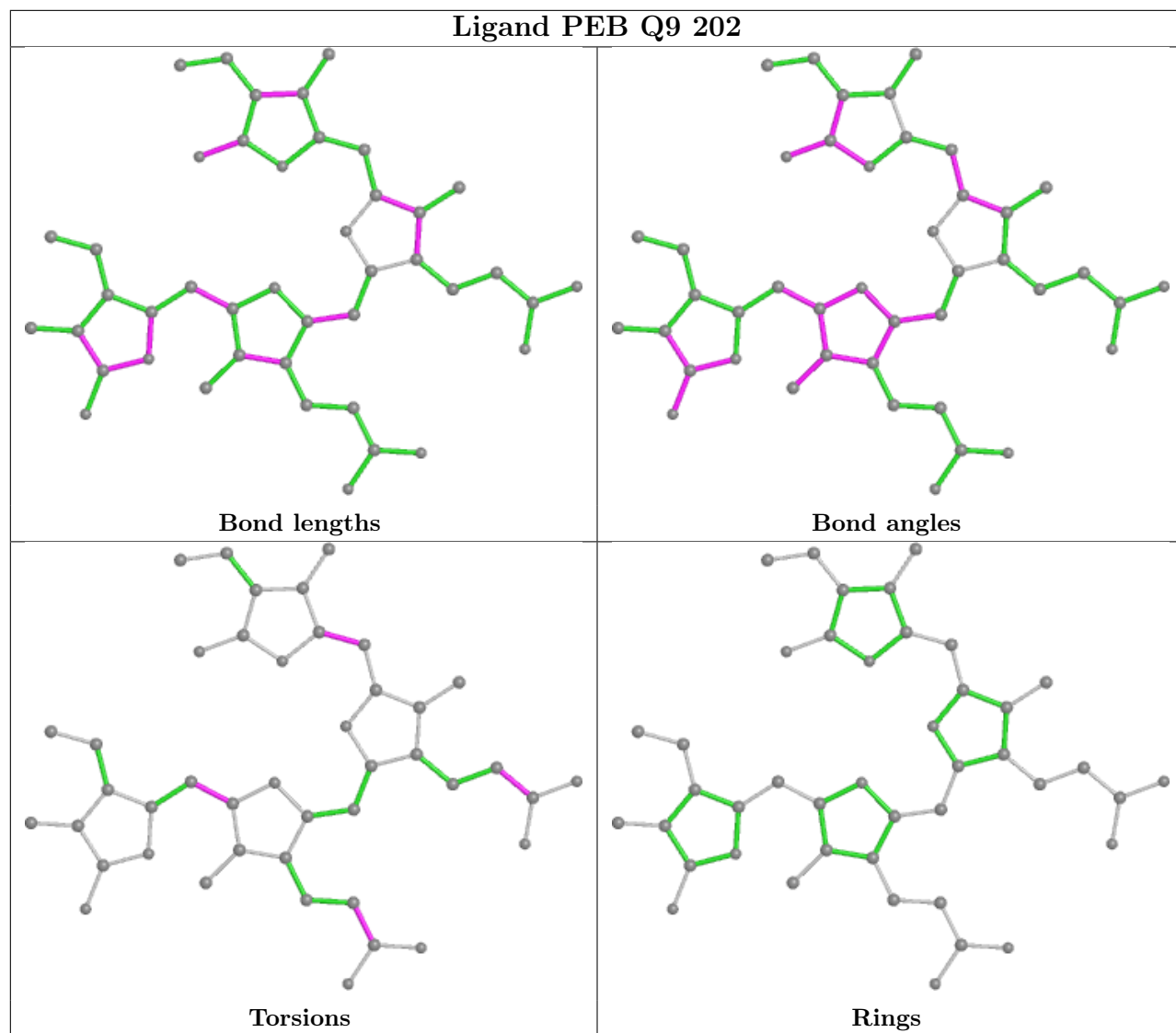


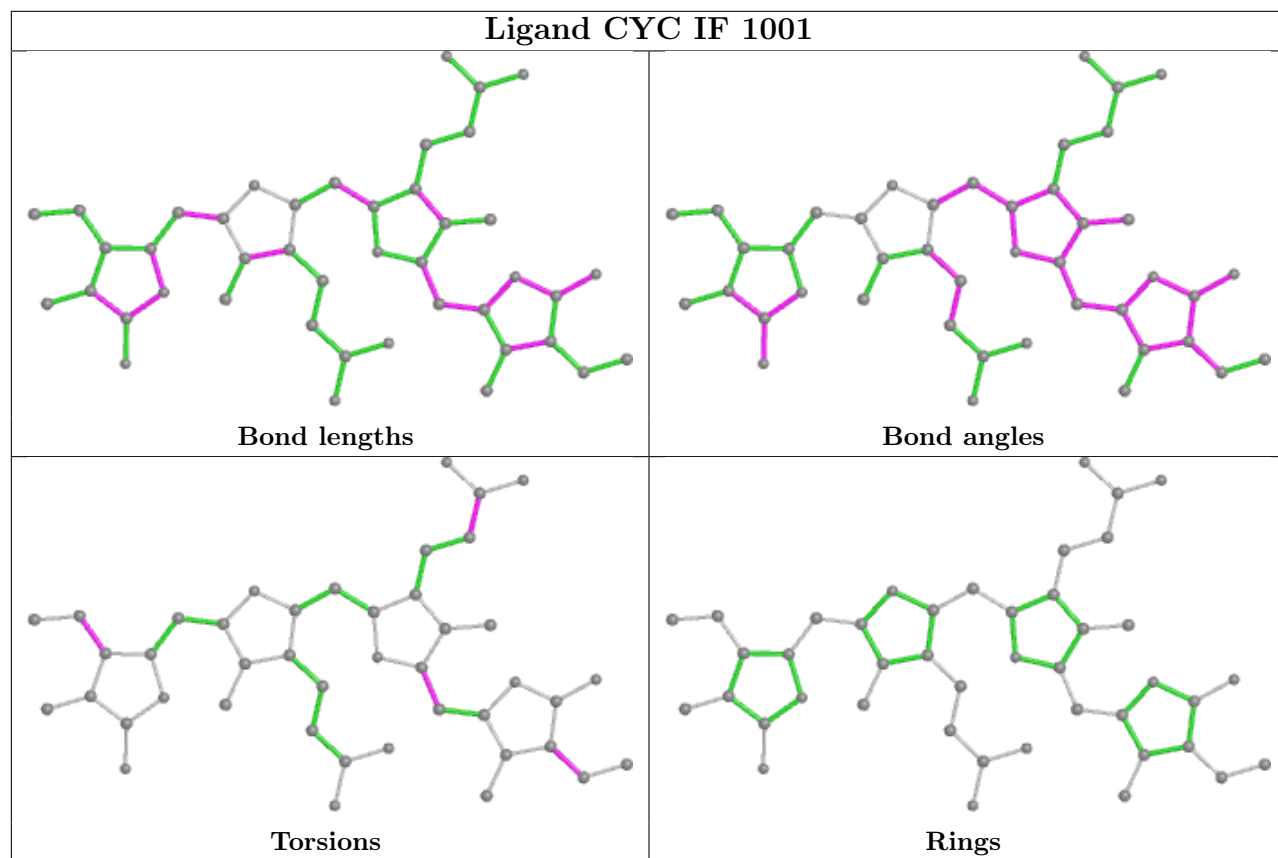
Rings



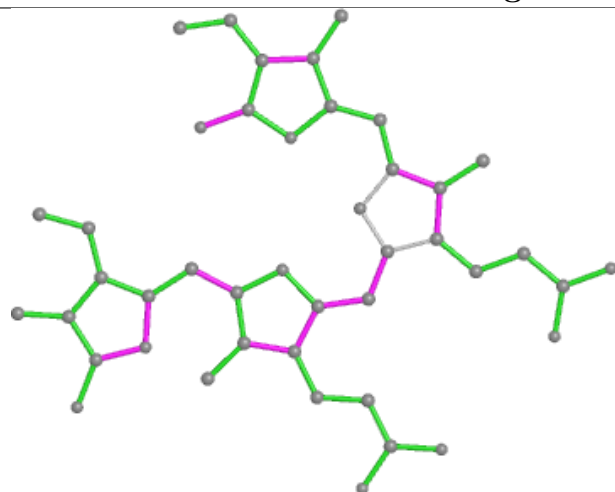




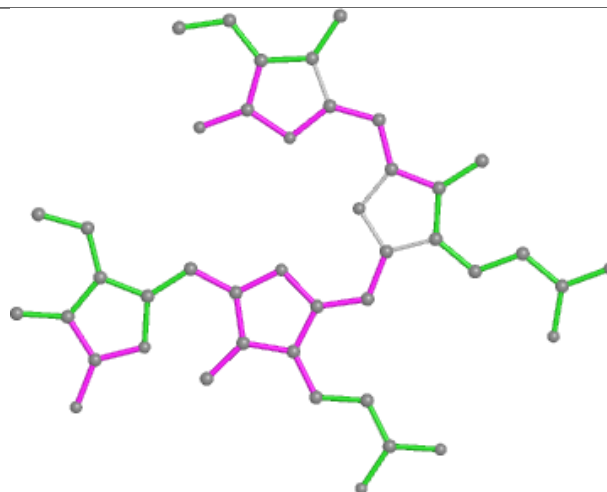




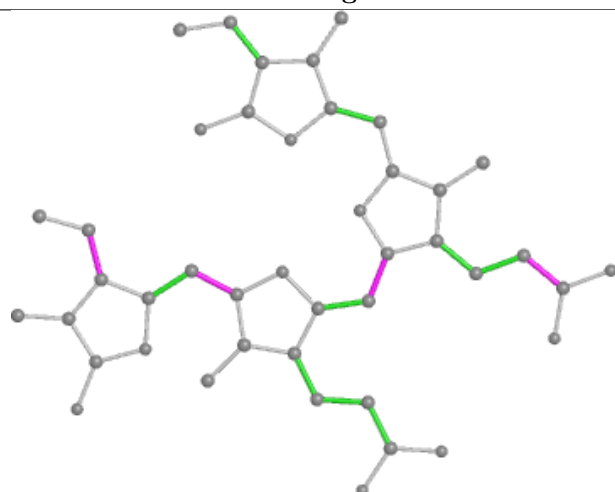
Ligand PEB BC 202



Bond lengths



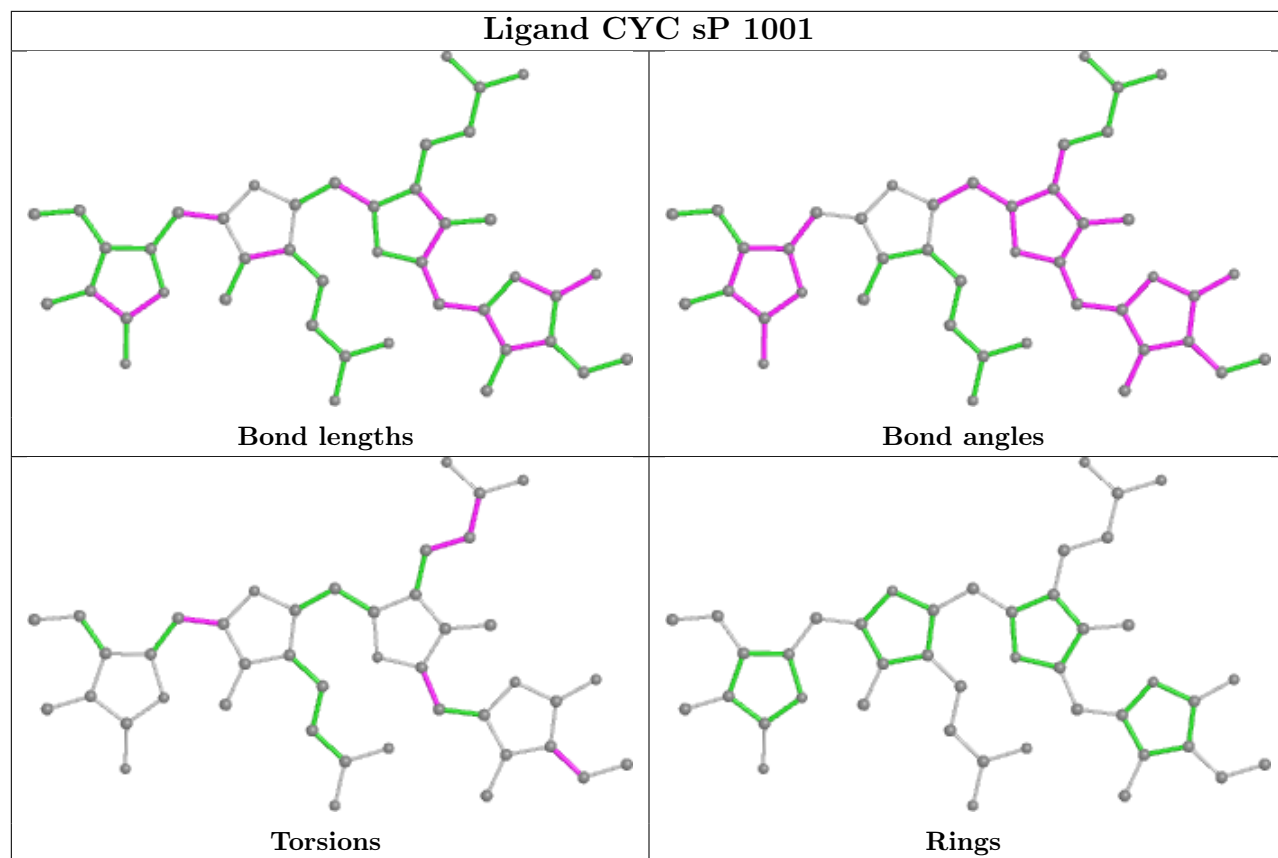
Bond angles



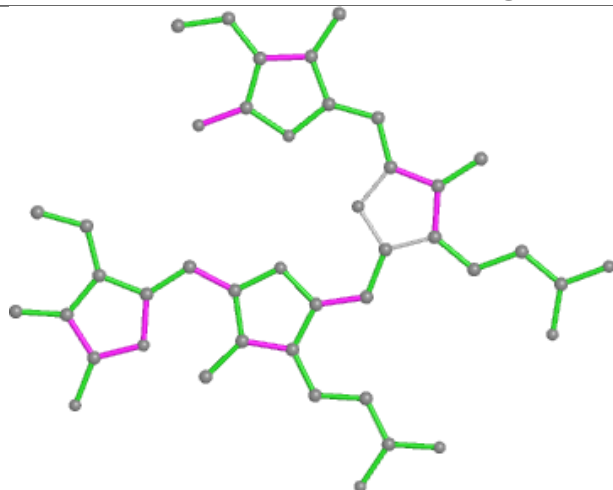
Torsions



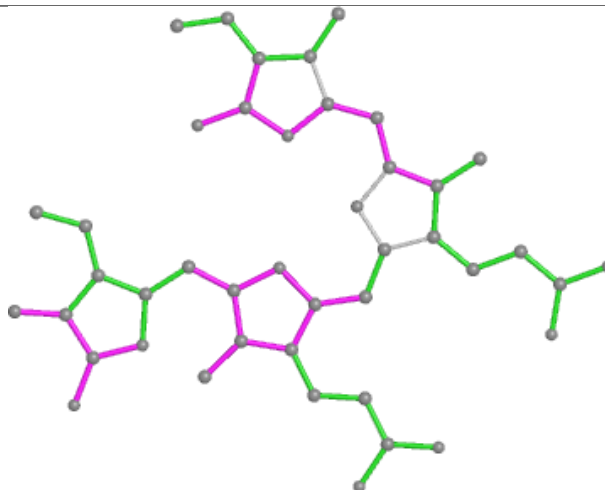
Rings



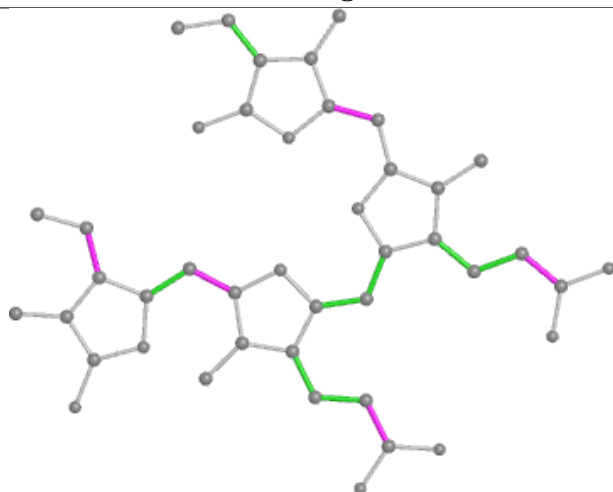
Ligand PEB GA 201



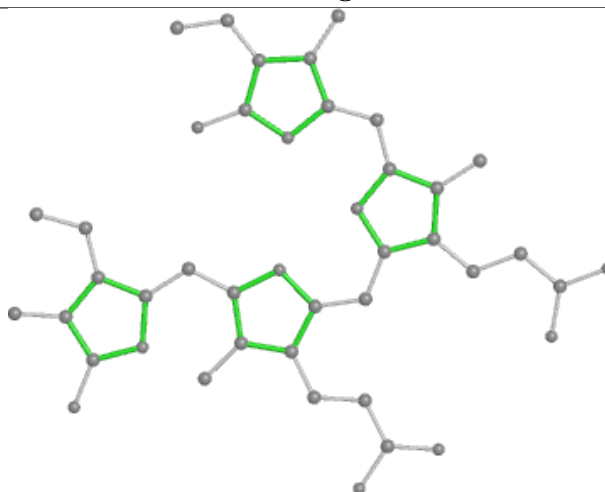
Bond lengths



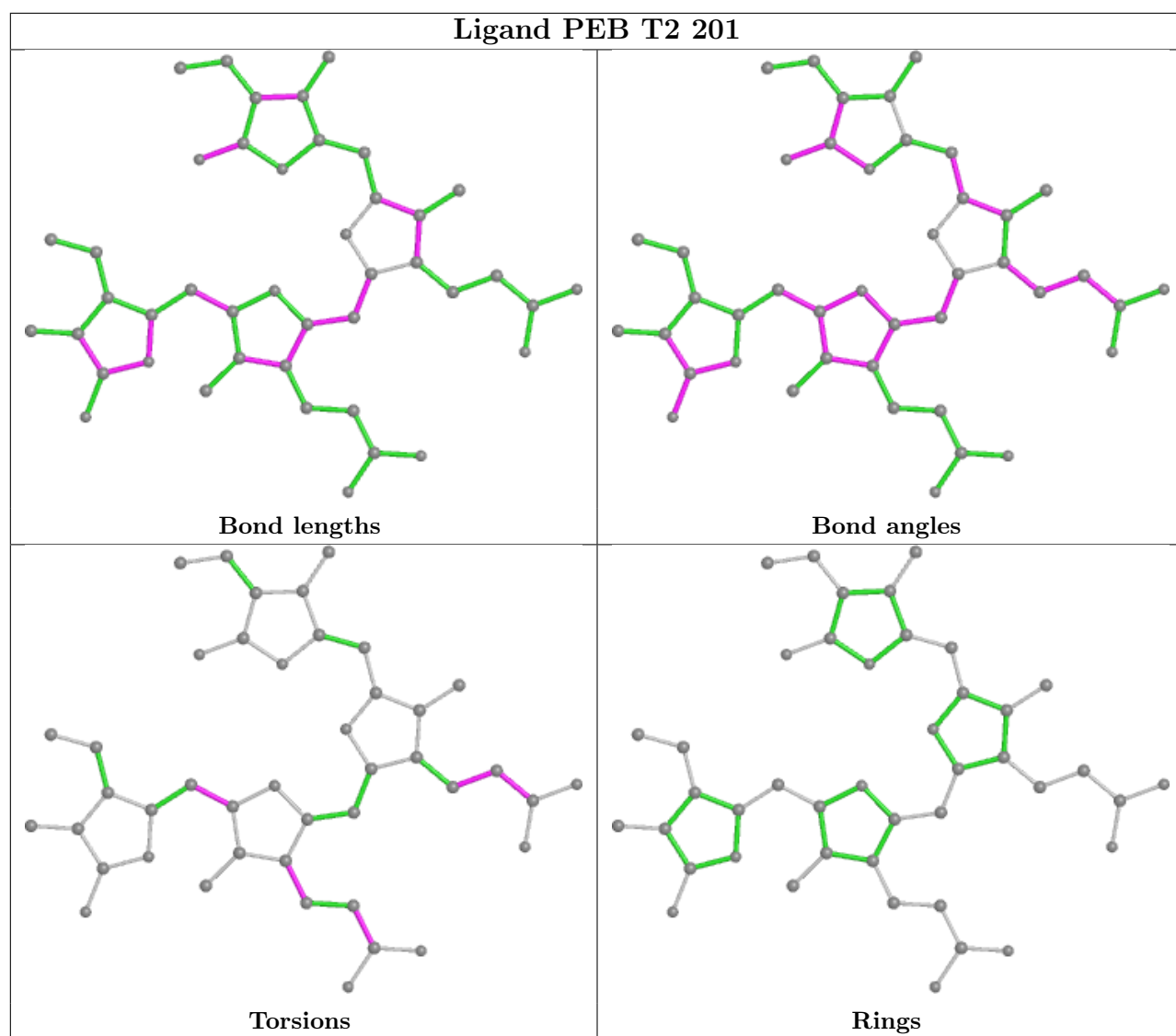
Bond angles



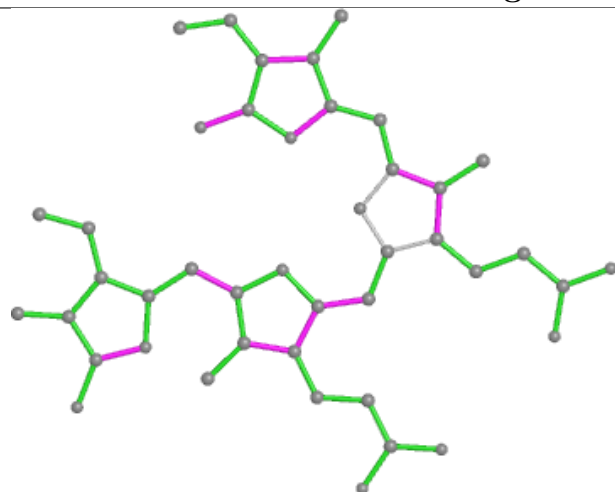
Torsions



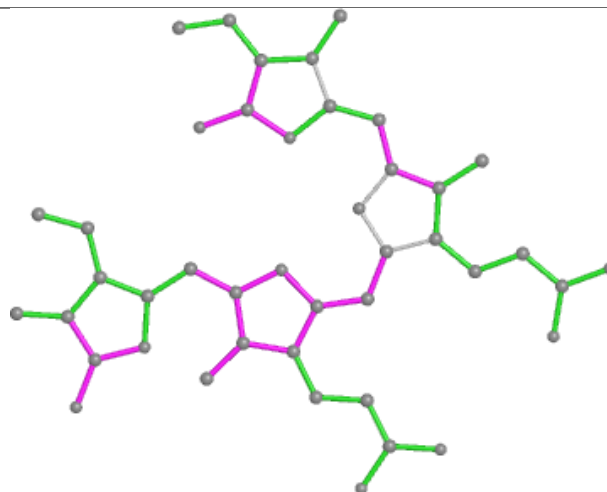
Rings



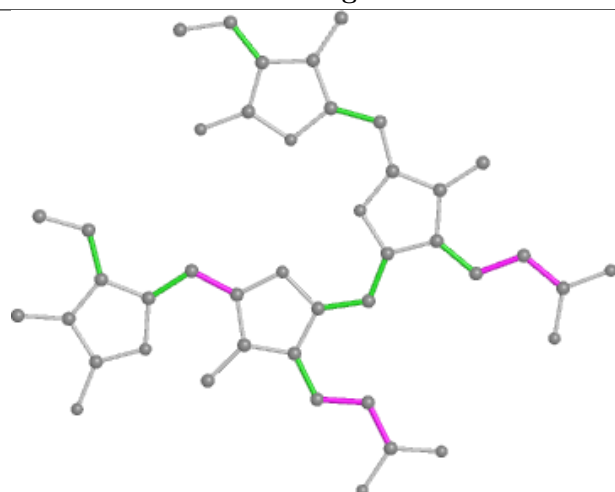
Ligand PEB GE 202



Bond lengths



Bond angles

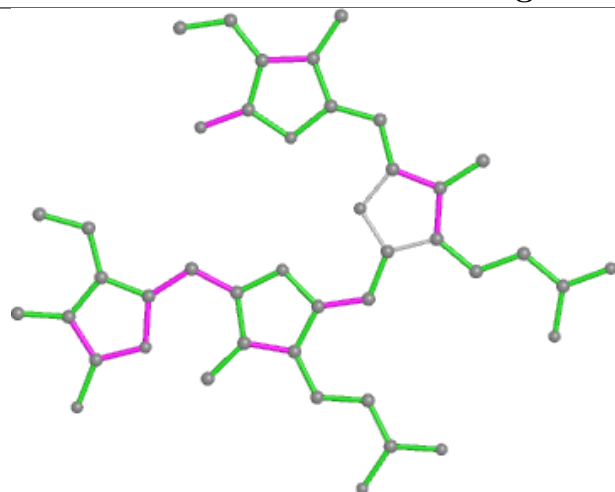


Torsions

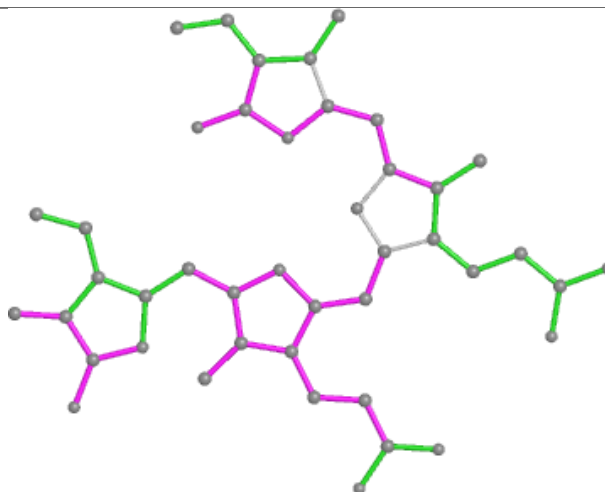


Rings

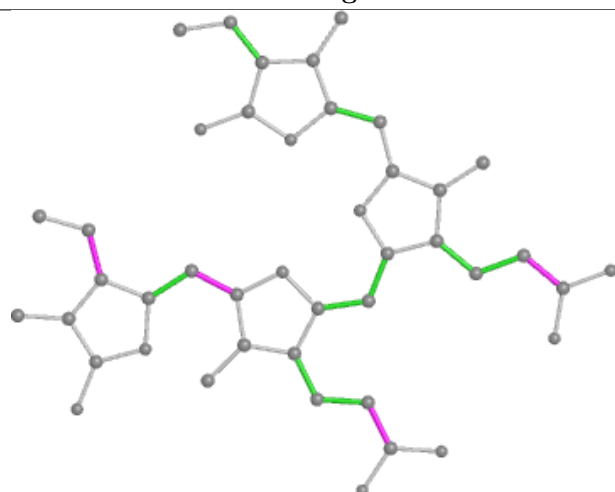
Ligand PEB 17 201



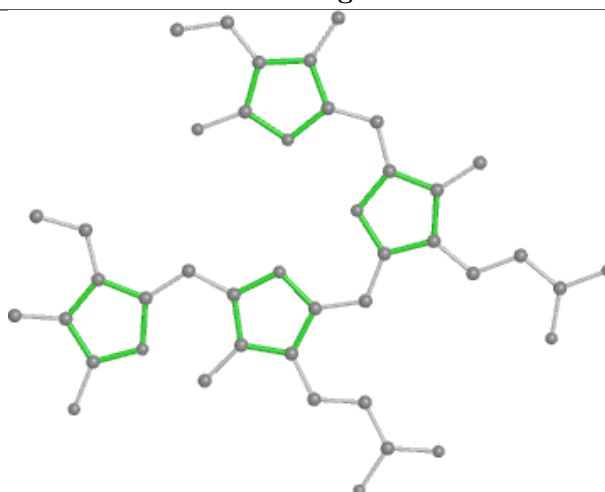
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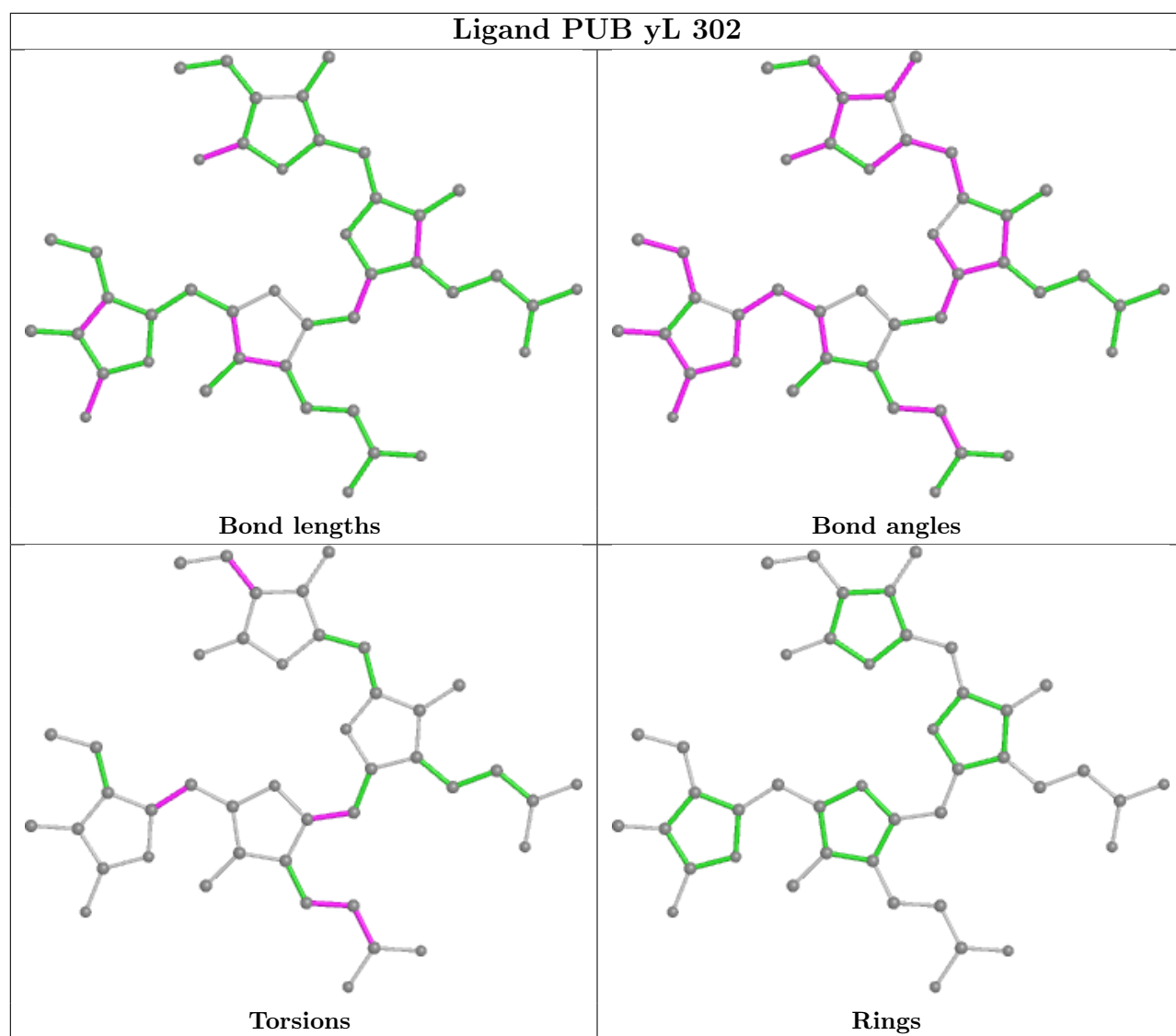
Bond angles

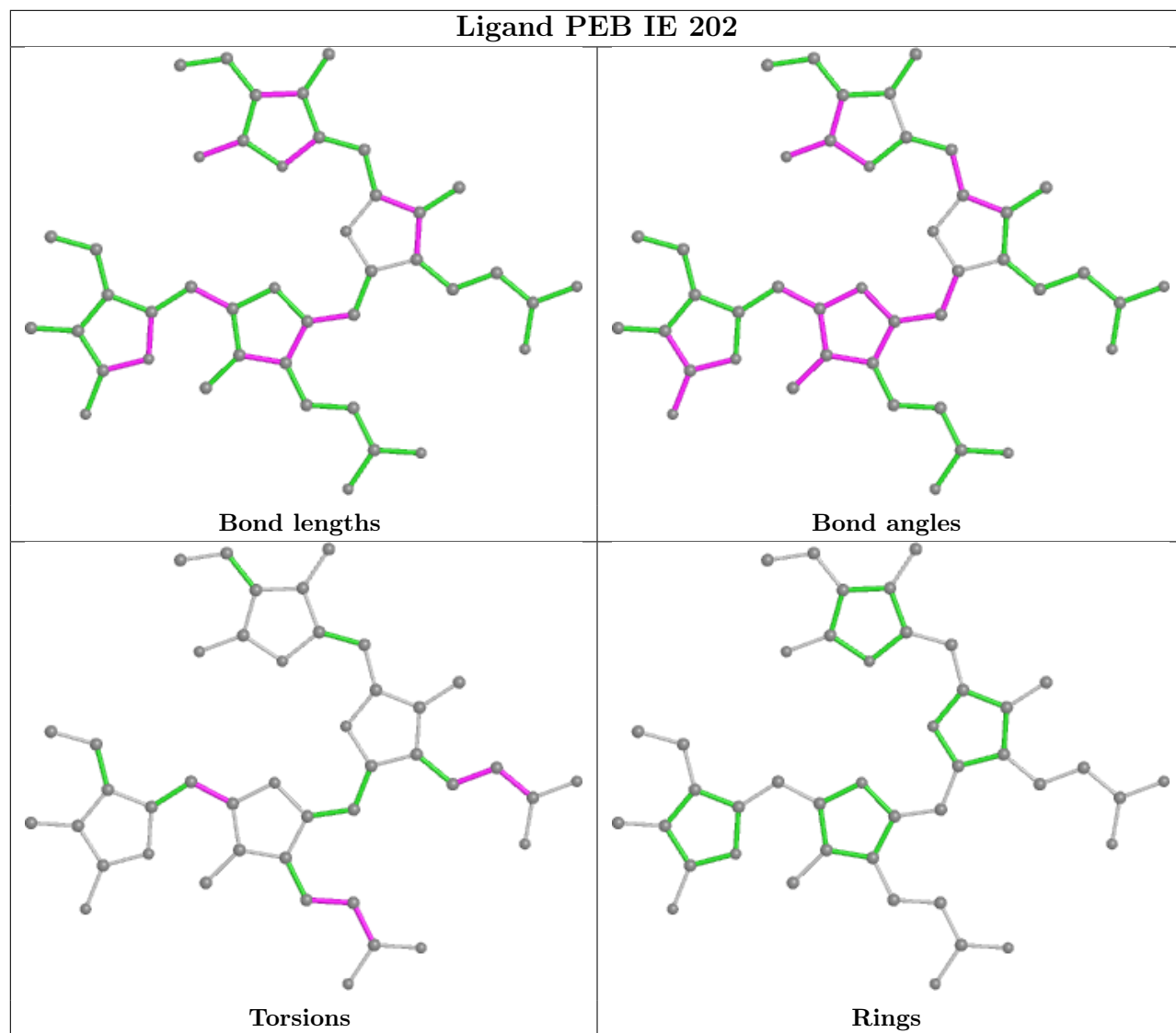


Torsions

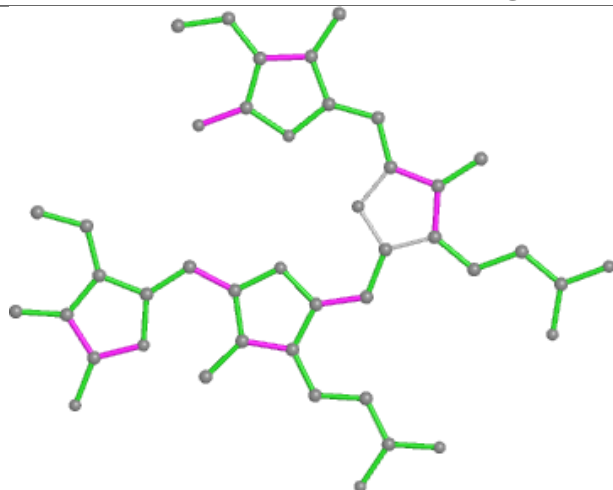


Rings

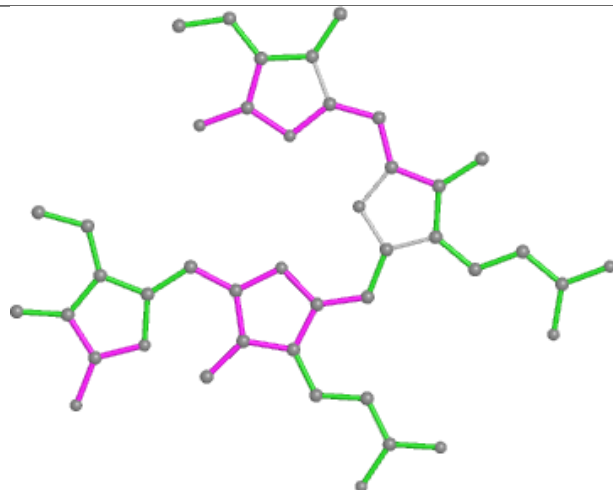




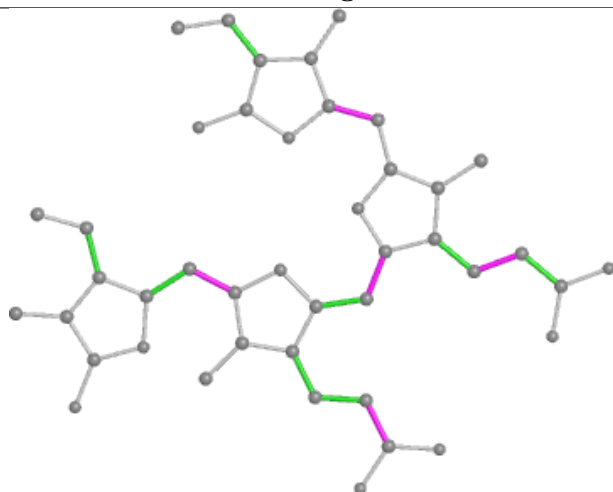
Ligand PEB FC 203



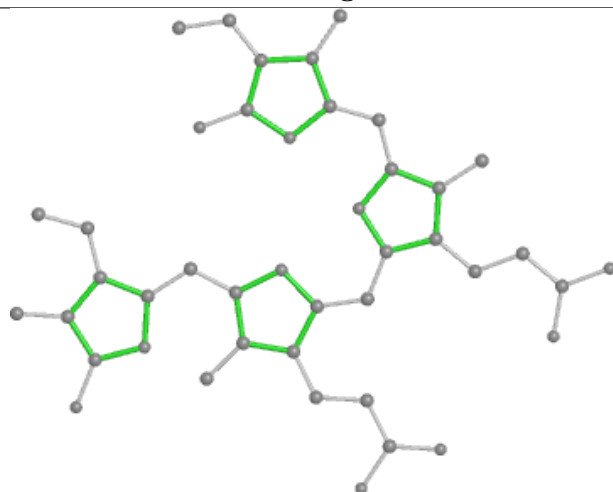
Bond lengths



Bond angles

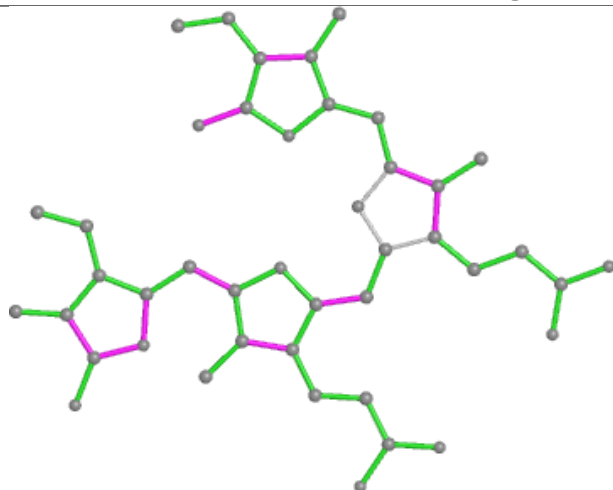


Torsions

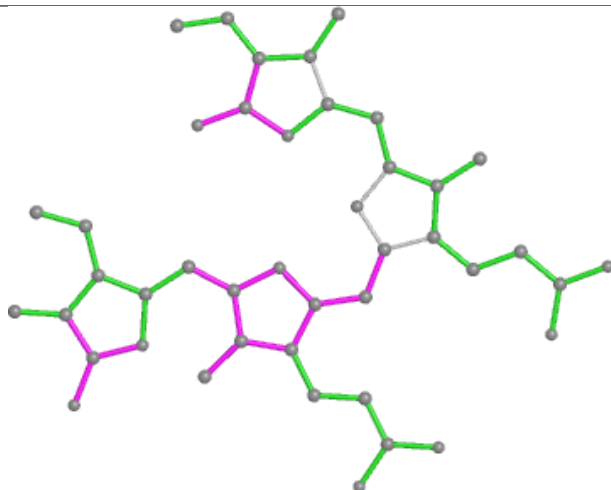


Rings

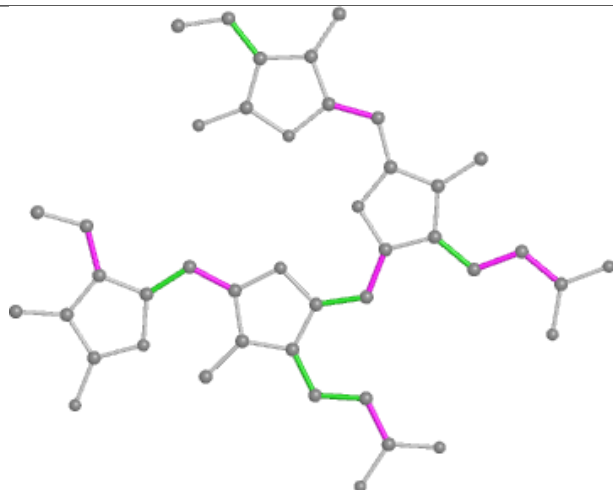
Ligand PEB PJ 203



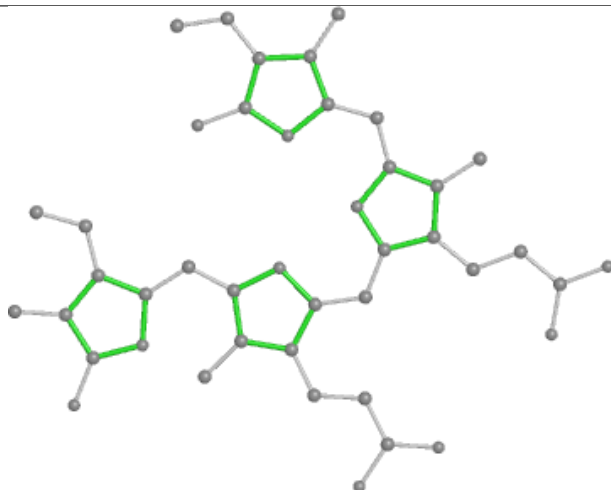
Bond lengths



Bond angles

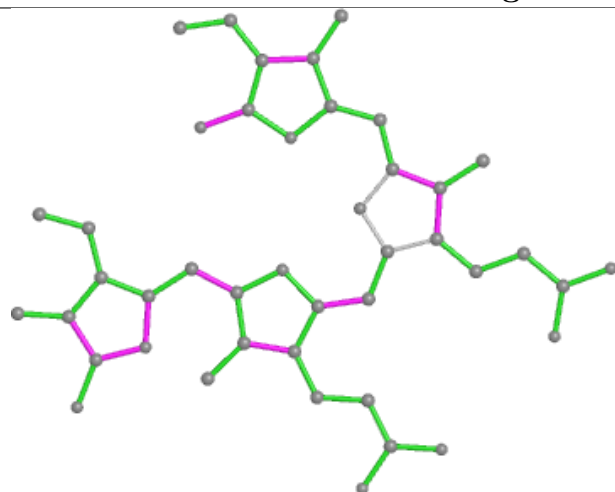


Torsions

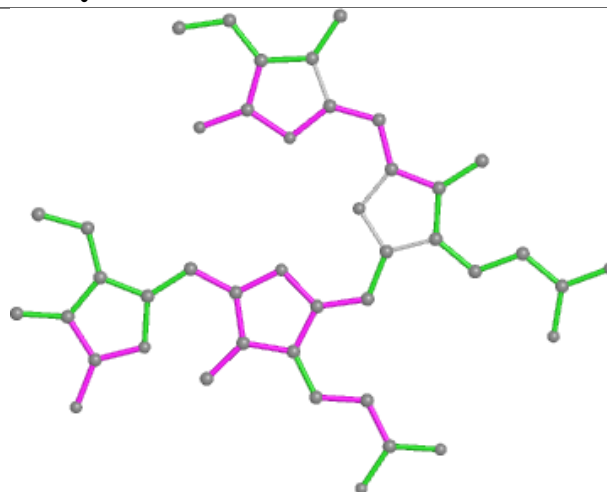


Rings

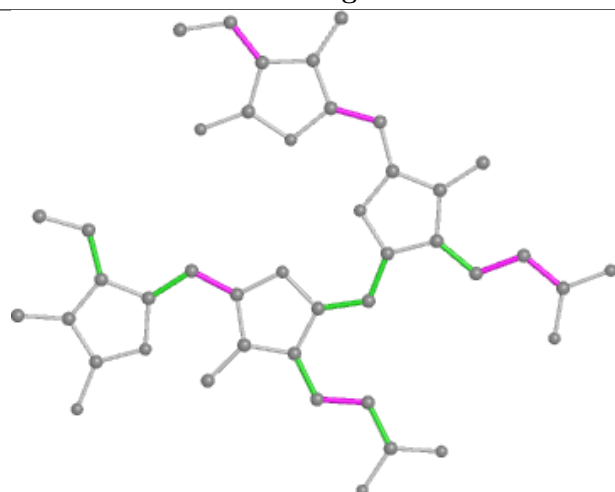
Ligand PEB HQ 201



Bond lengths



Bond angles

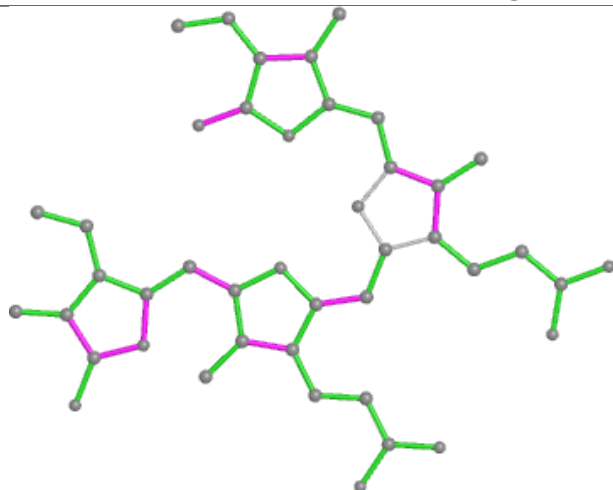


Torsions

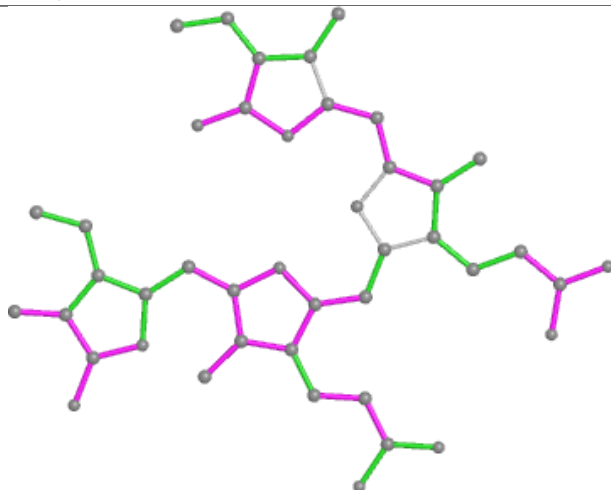


Rings

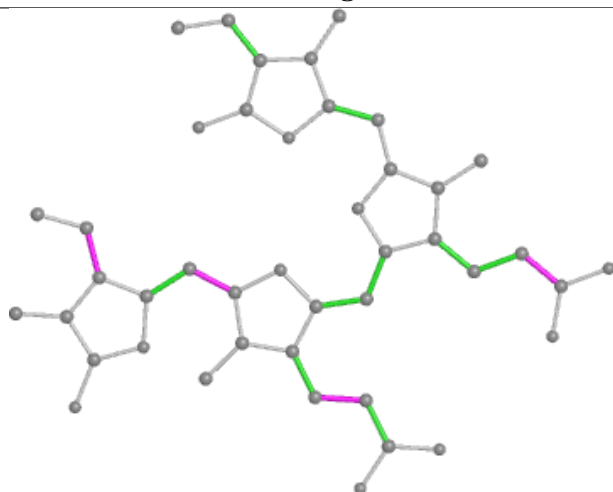
Ligand PEB Q2 201



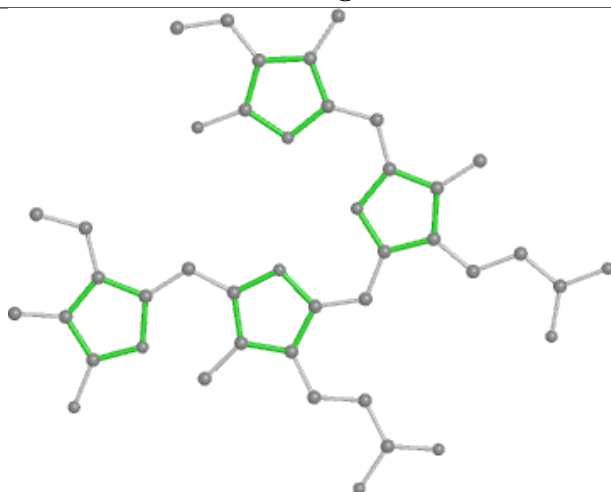
Bond lengths



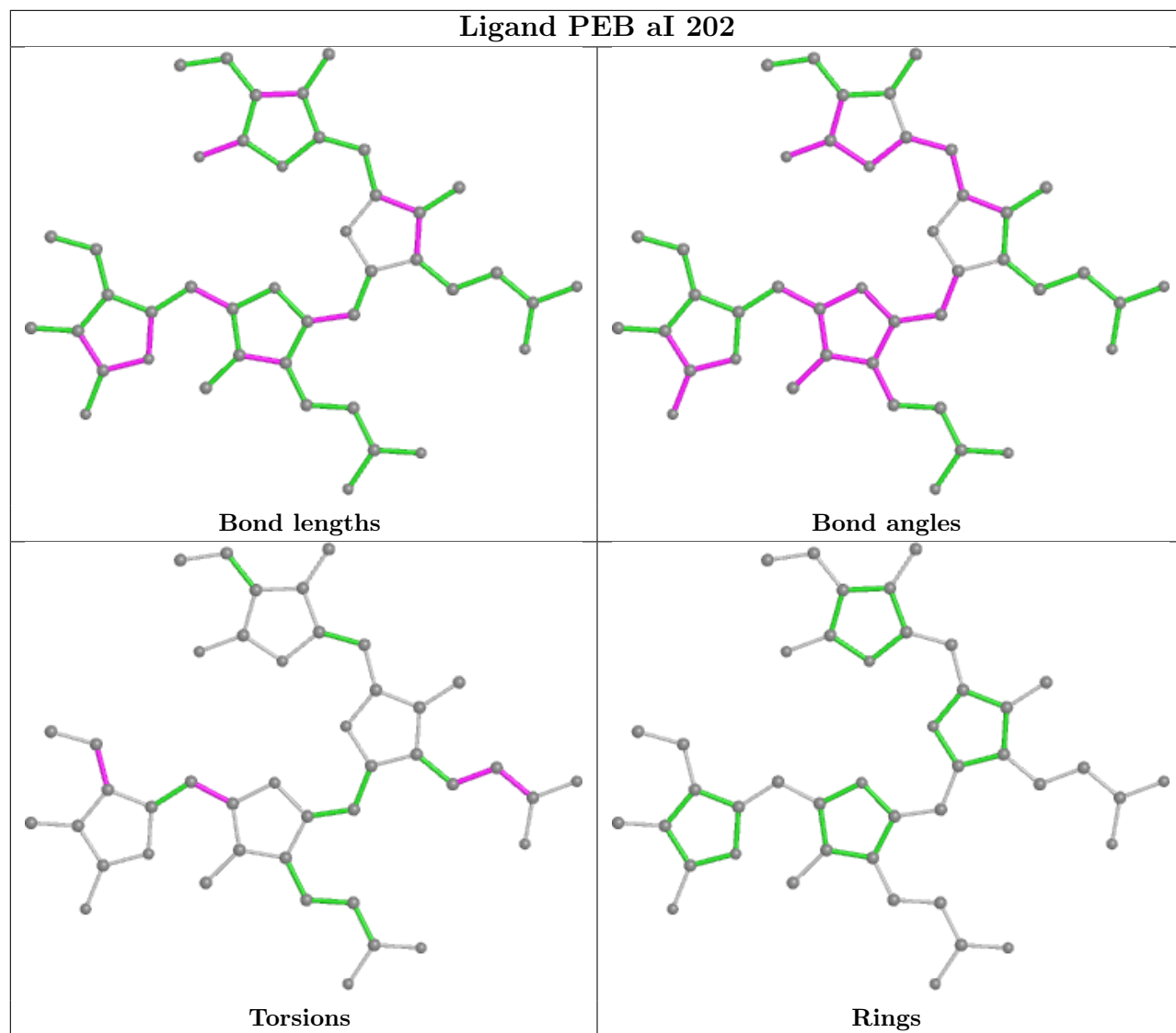
Bond angles



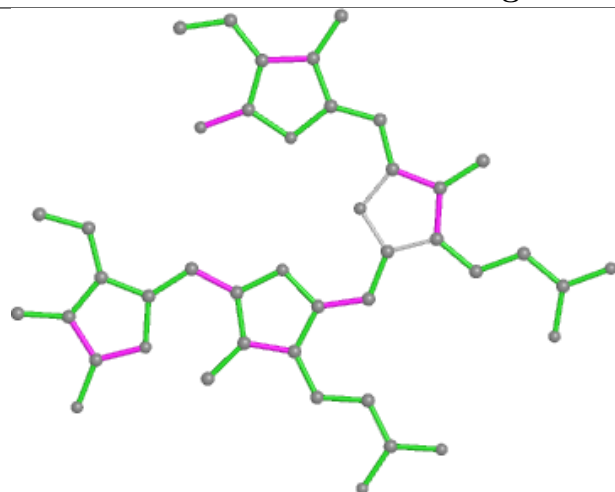
Torsions



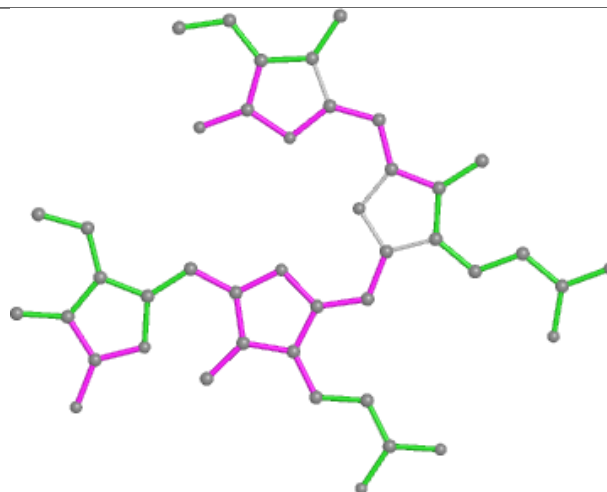
Rings



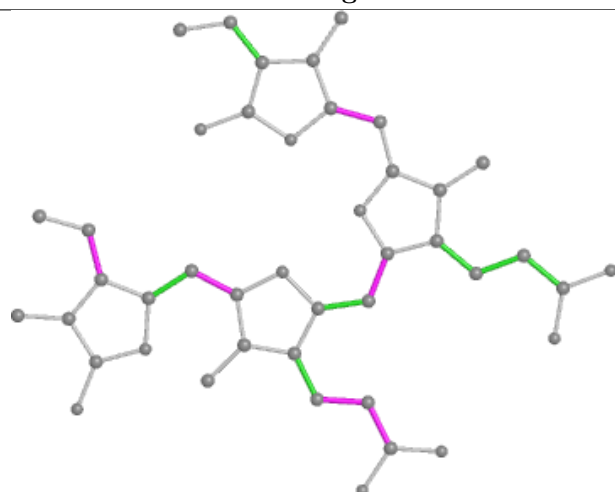
Ligand PEB HA 203



Bond lengths



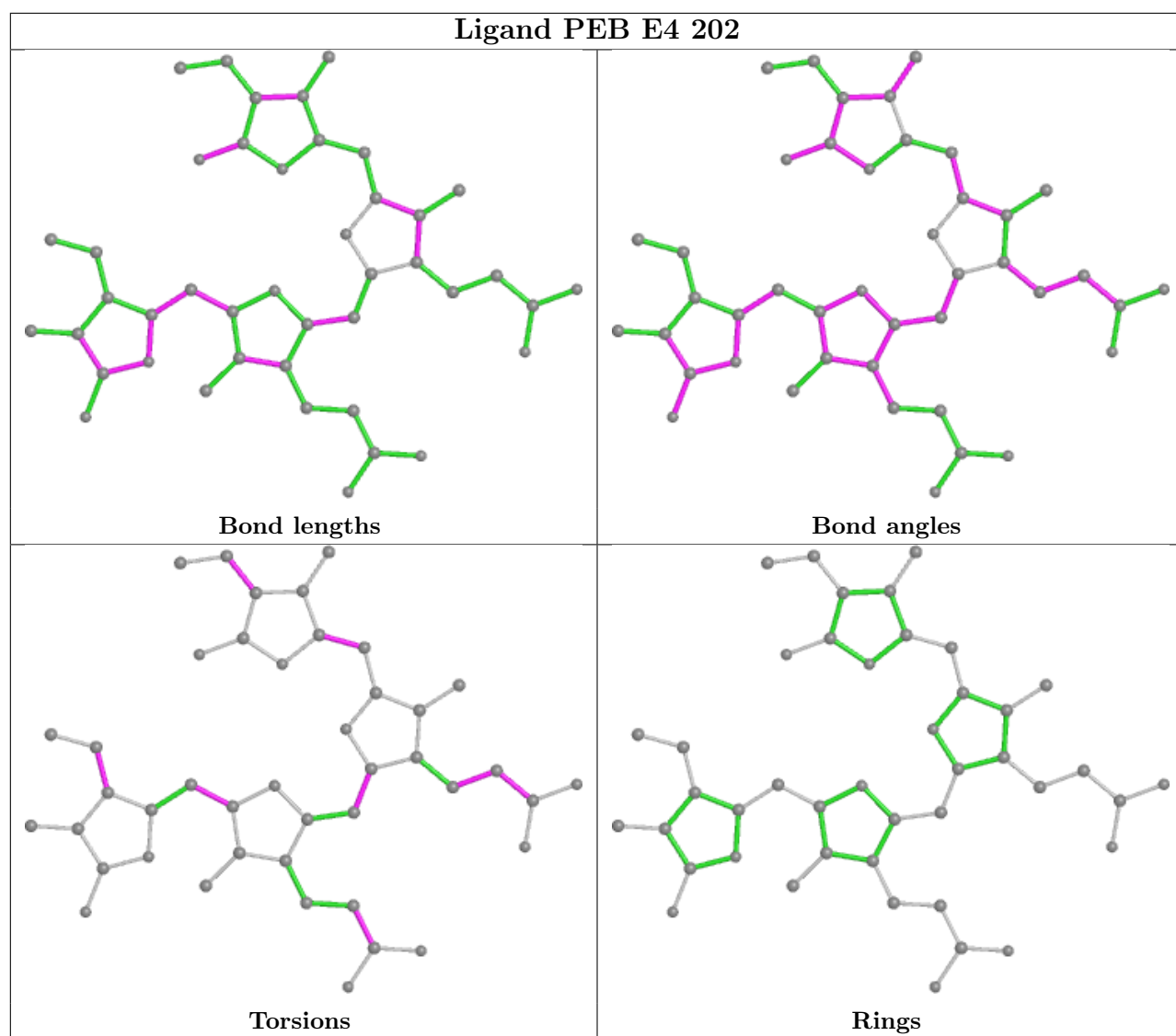
Bond angles



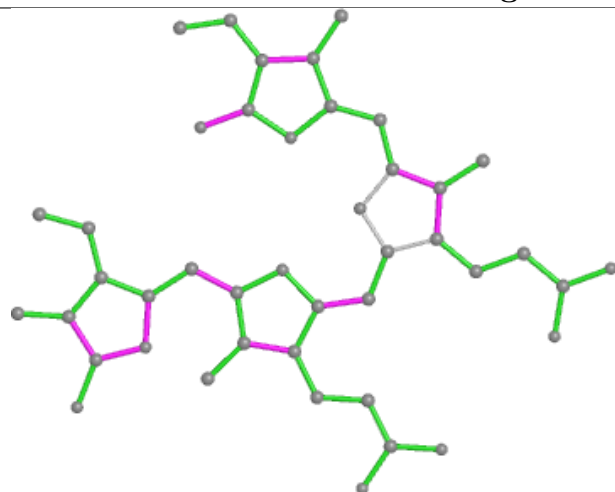
Torsions



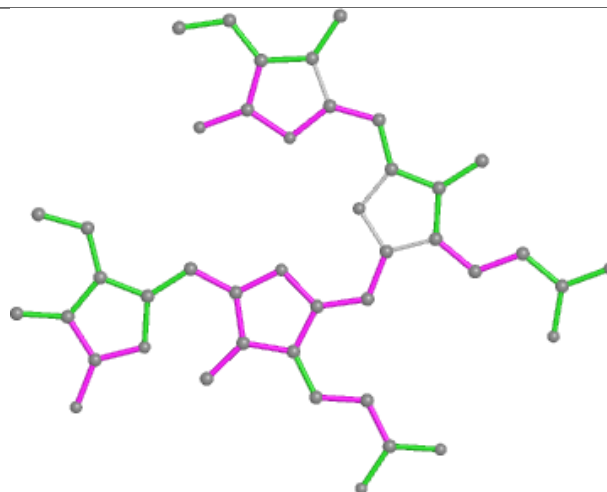
Rings



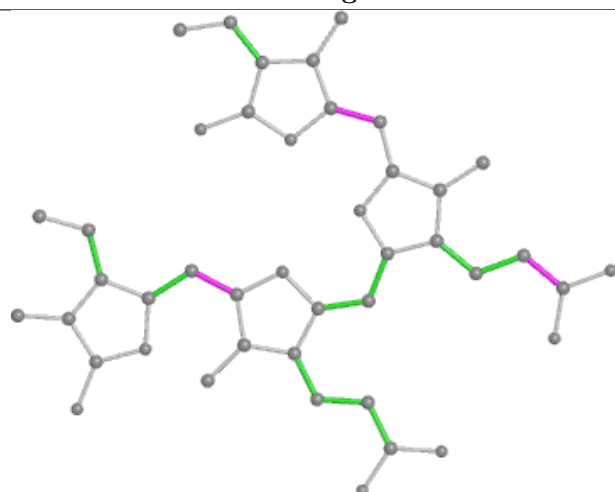
Ligand PEB TM 201



Bond lengths



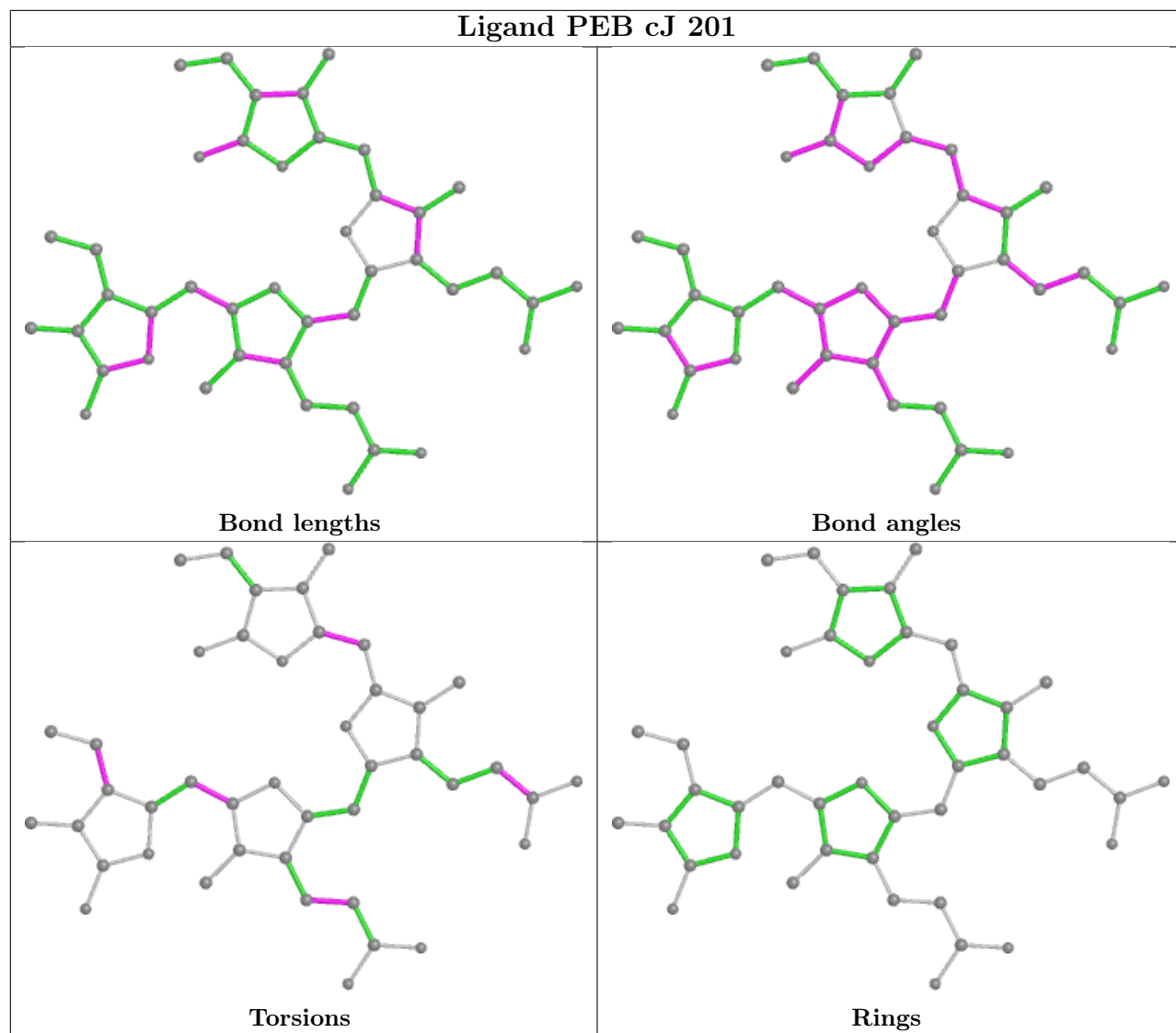
Bond angles

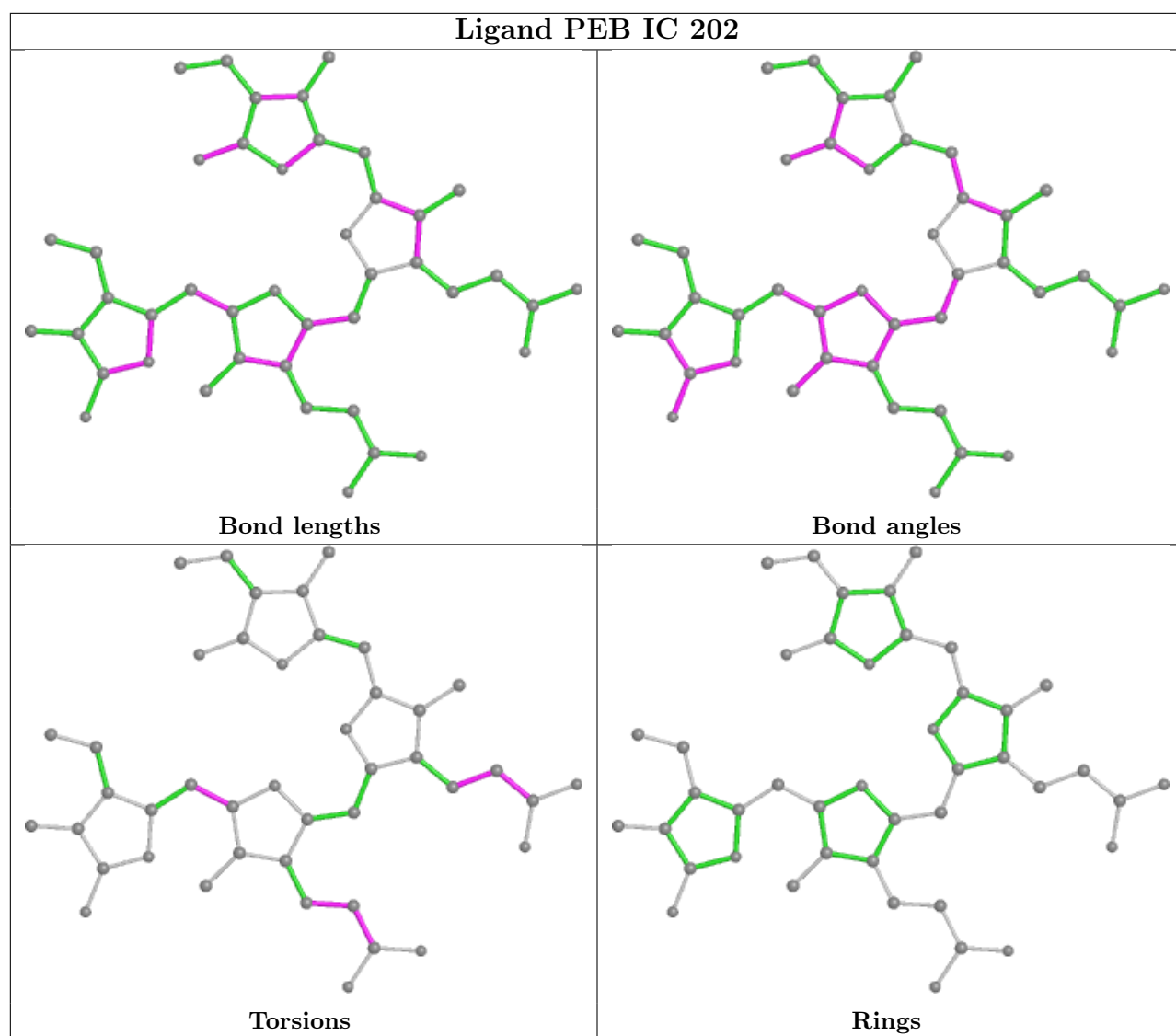


Torsions

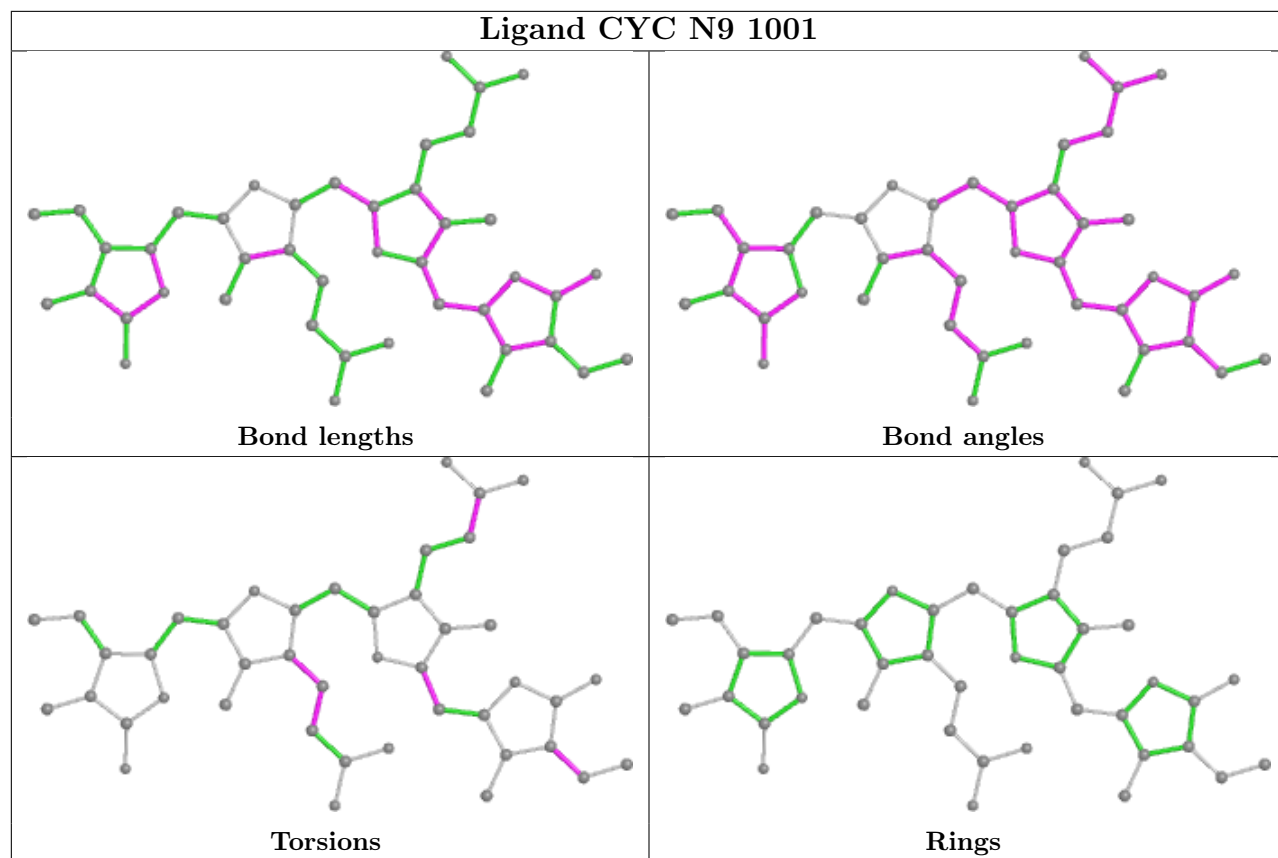


Rings

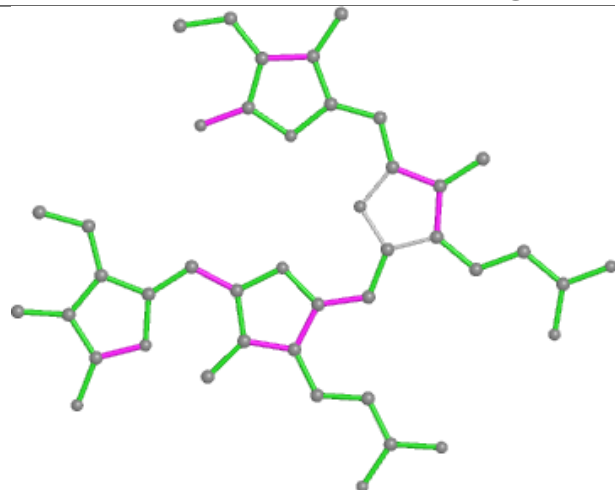




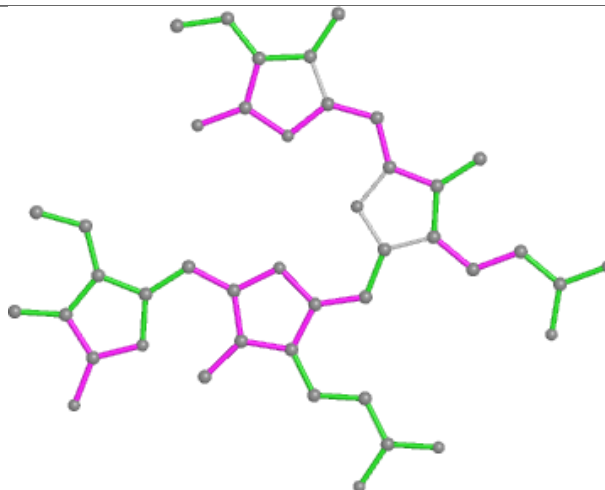
Ligand CYC N9 1001



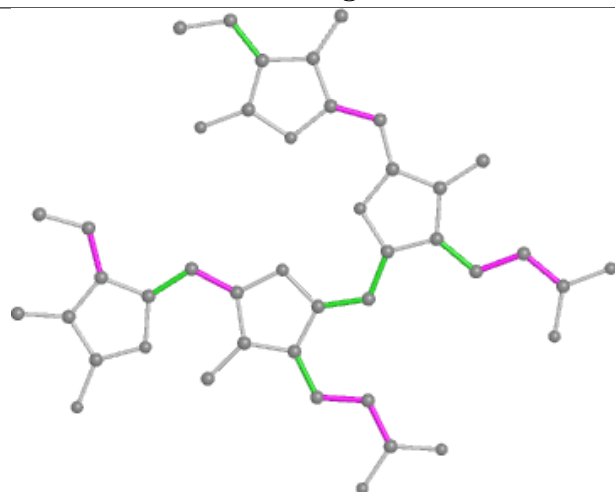
Ligand PEB D3 202



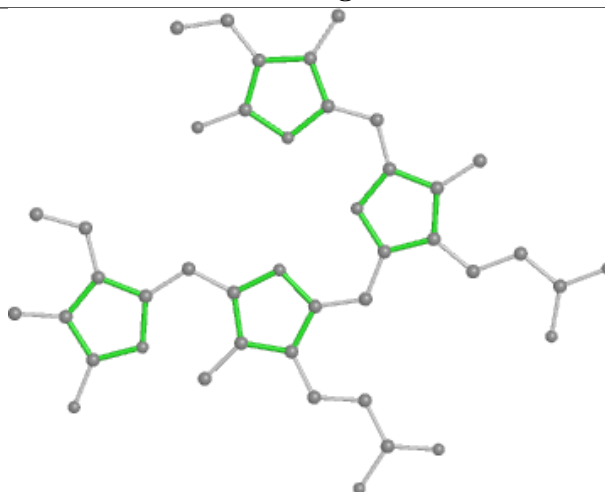
Bond lengths



Bond angles

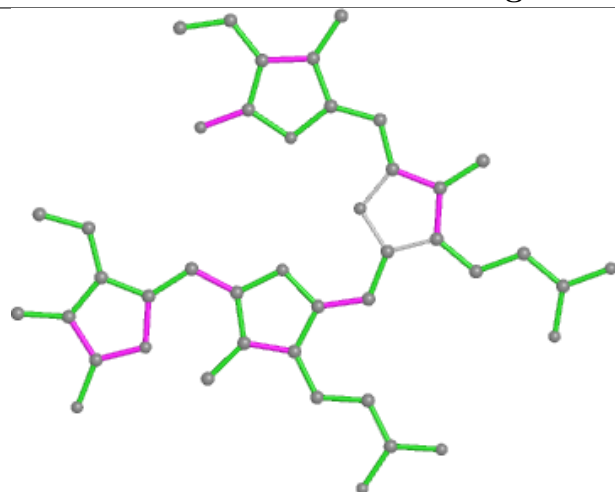


Torsions

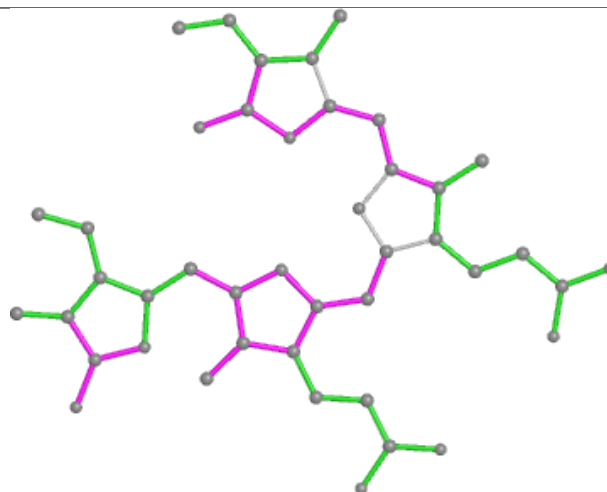


Rings

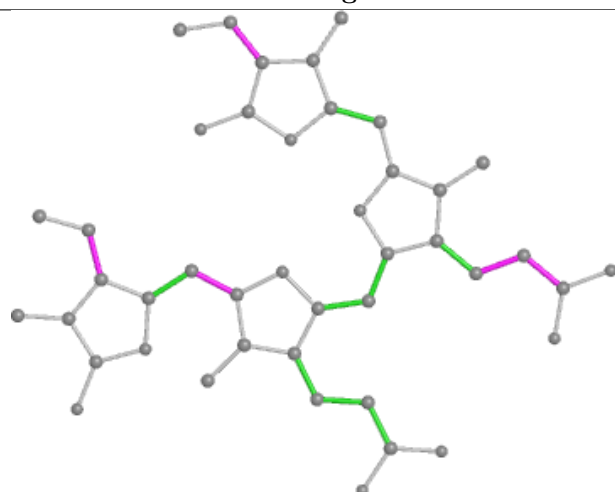
Ligand PEB XL 202



Bond lengths



Bond angles

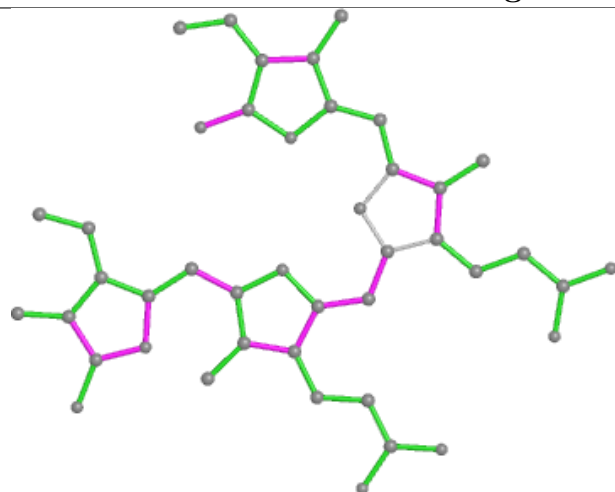


Torsions

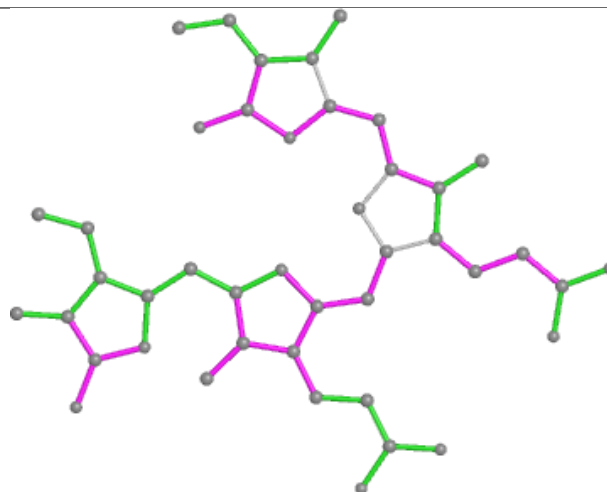


Rings

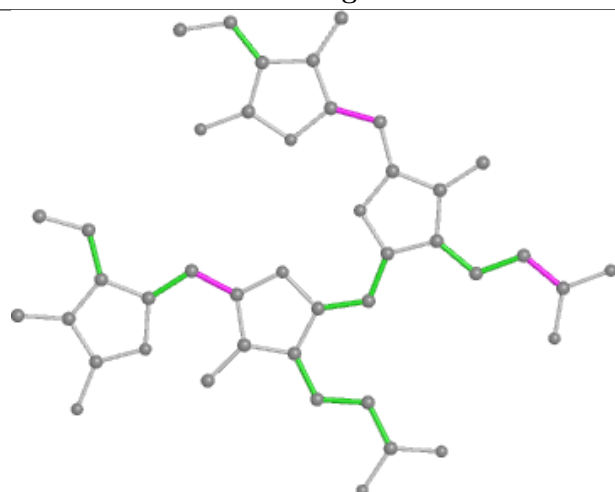
Ligand PEB DE 201



Bond lengths



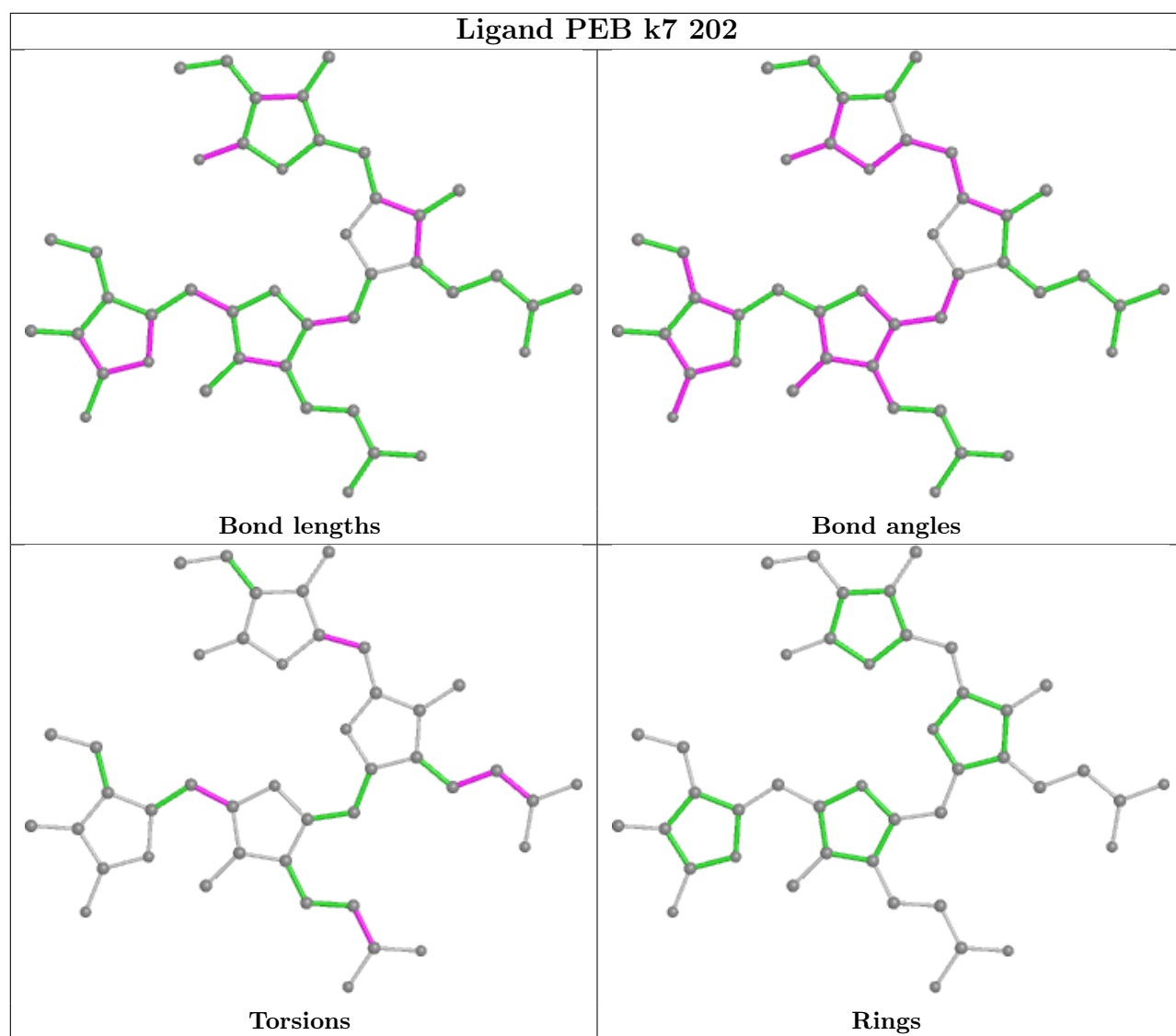
Bond angles



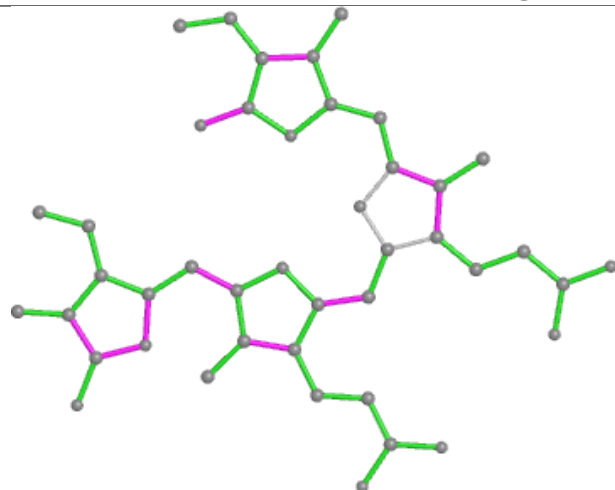
Torsions



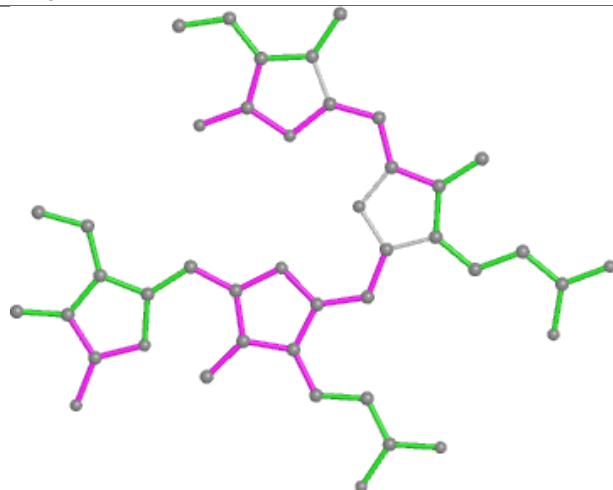
Rings



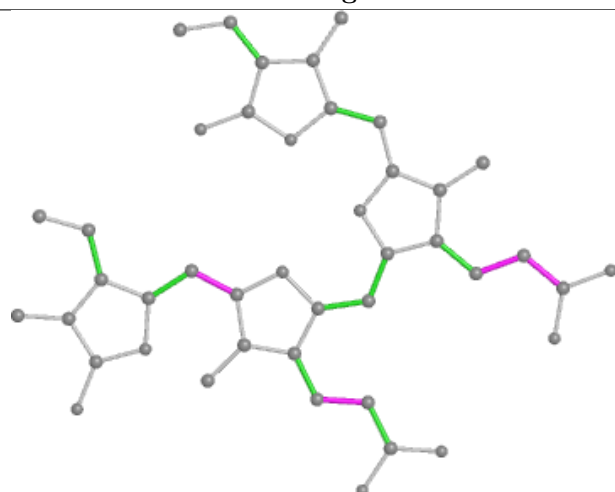
Ligand PEB j1 203



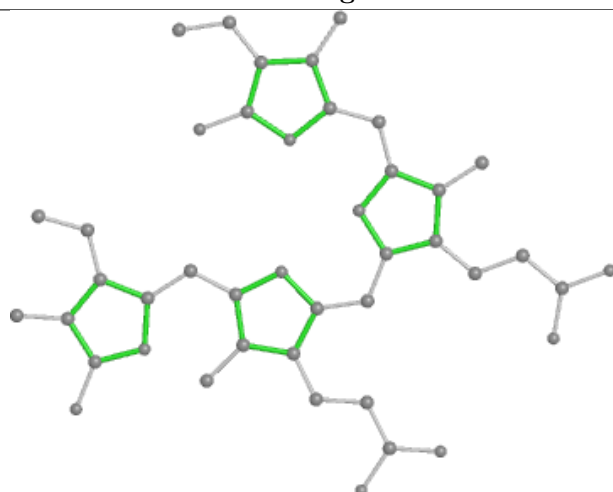
Bond lengths



Bond angles

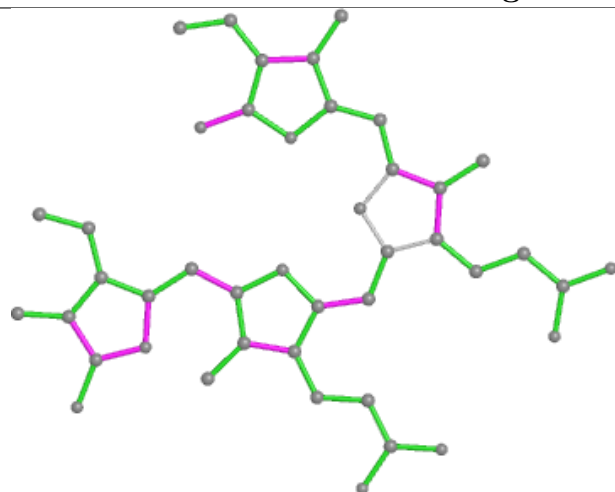


Torsions

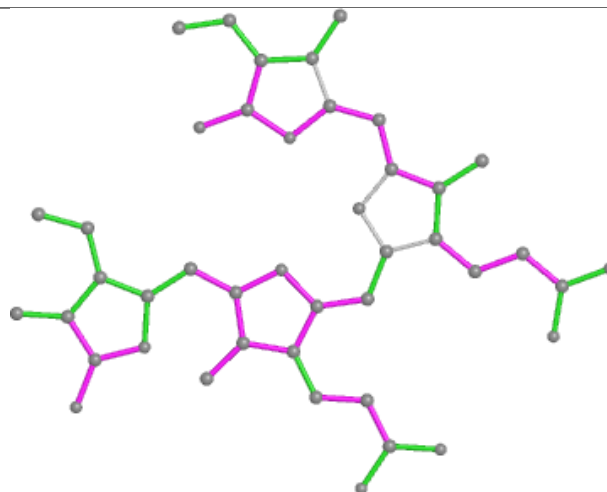


Rings

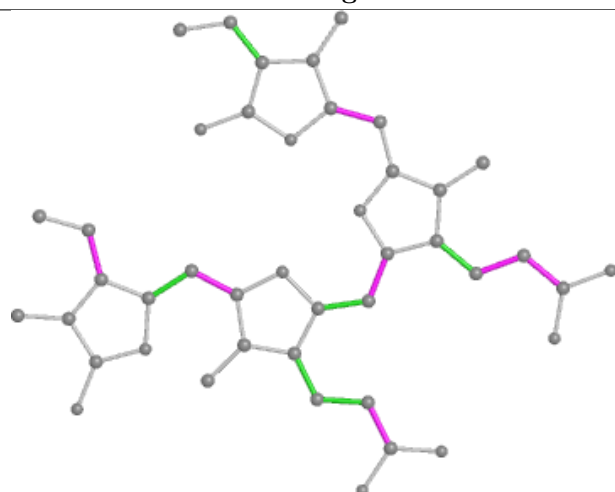
Ligand PEB NR 203



Bond lengths



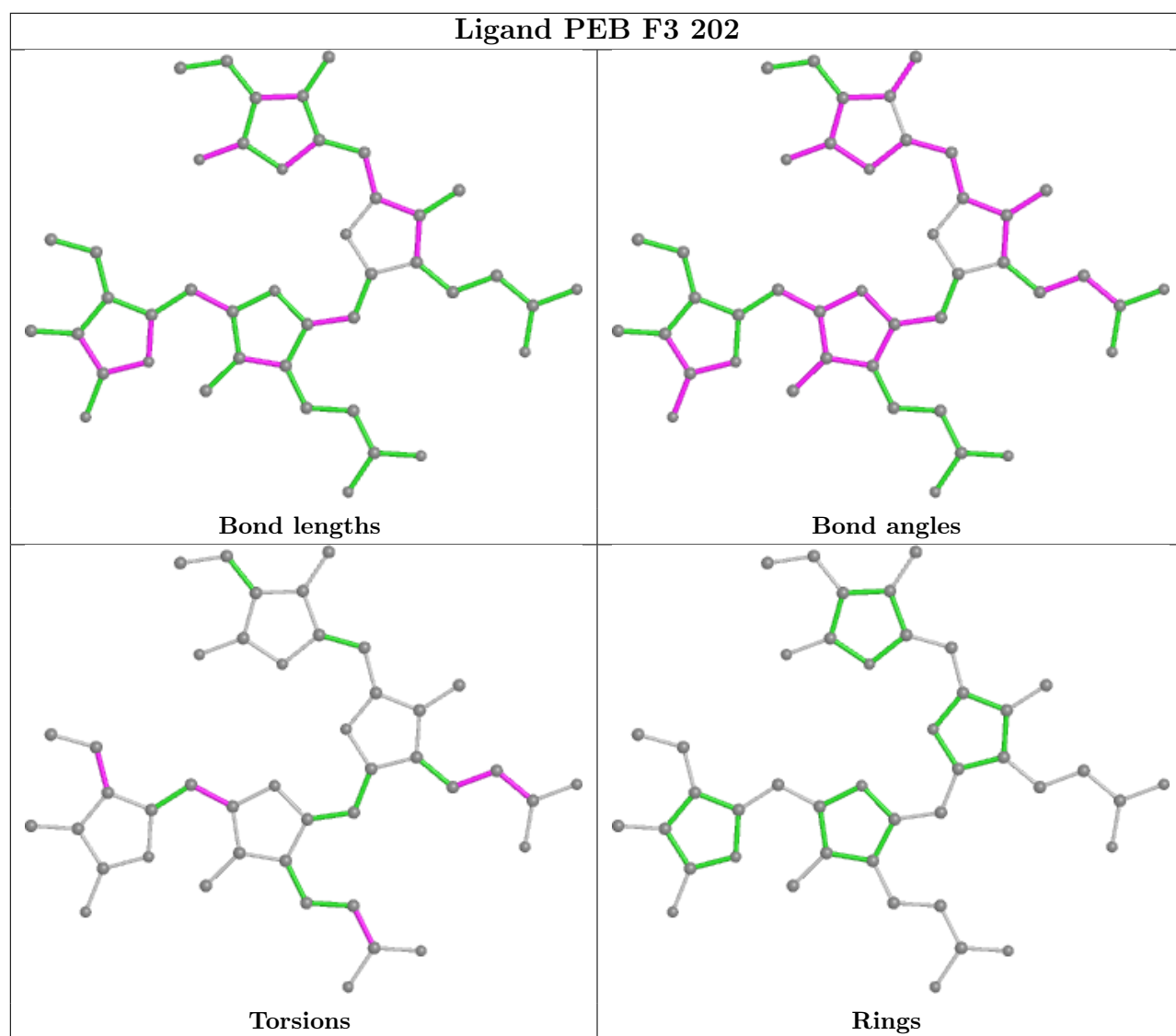
Bond angles

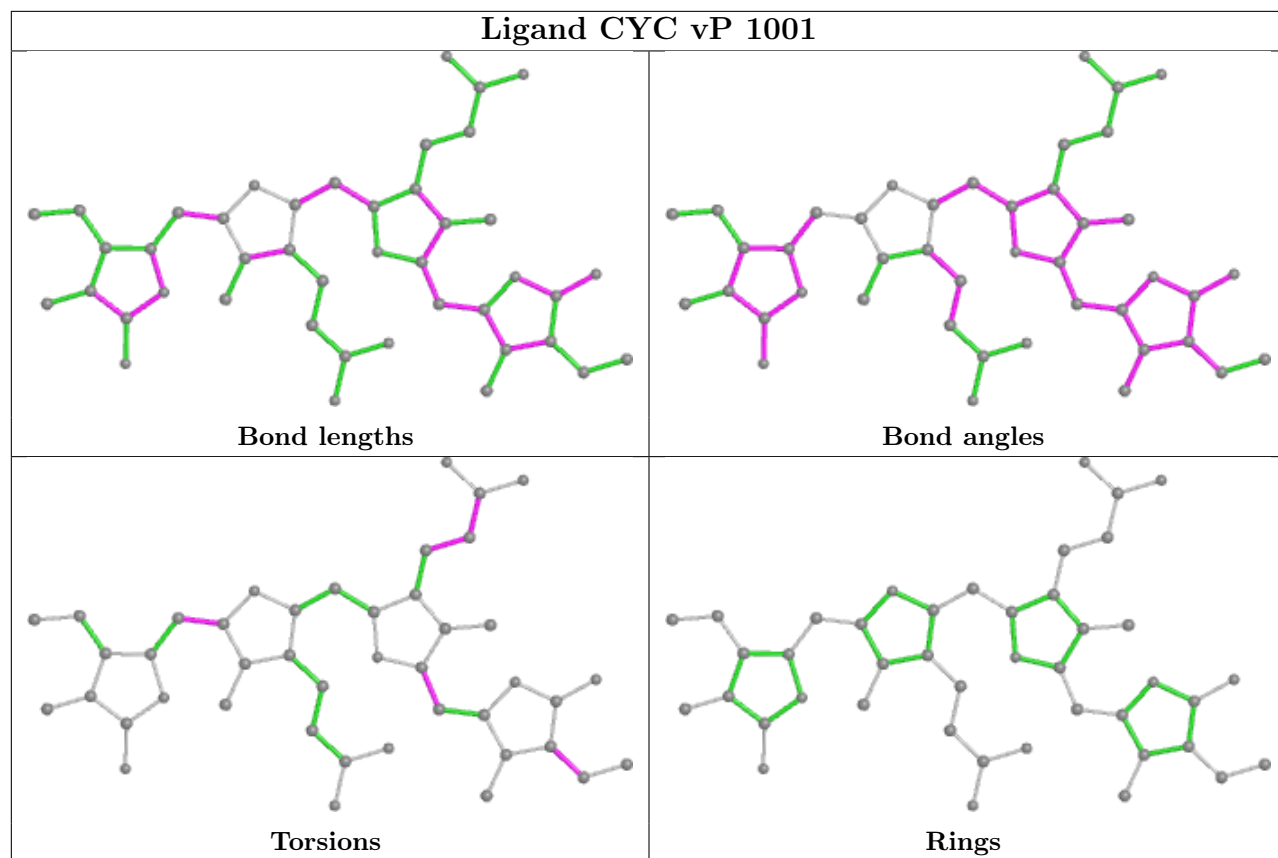


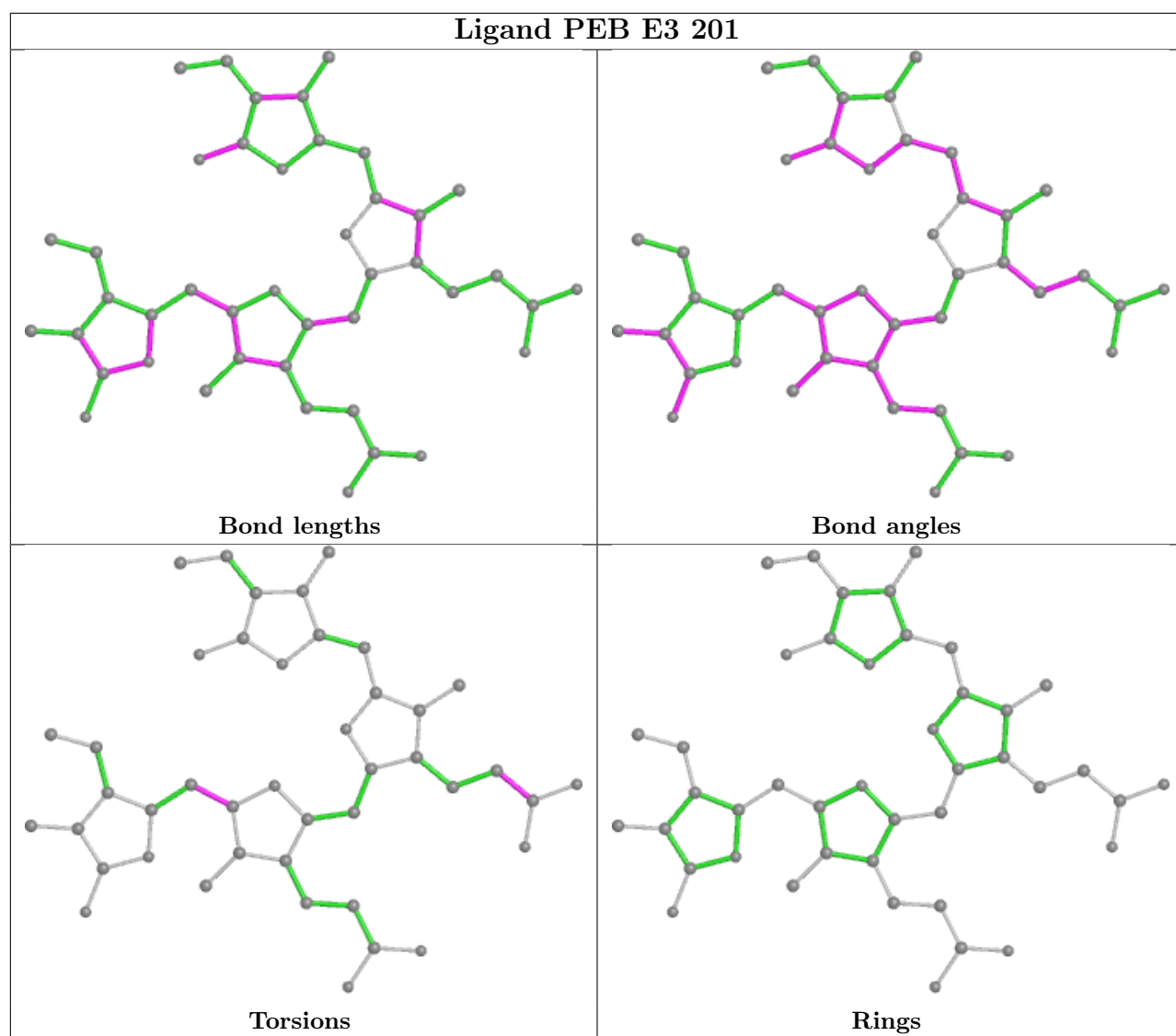
Torsions



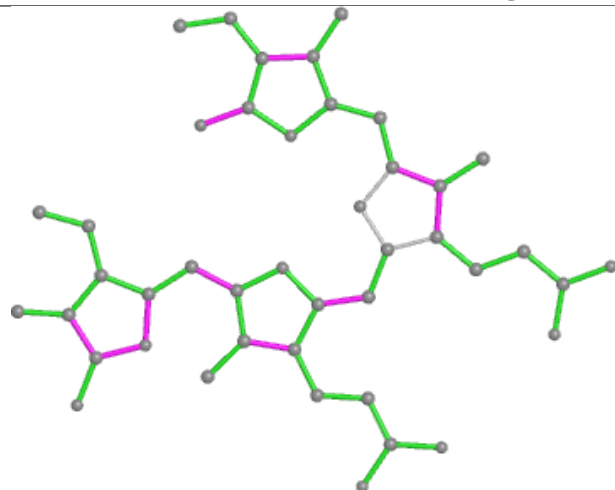
Rings



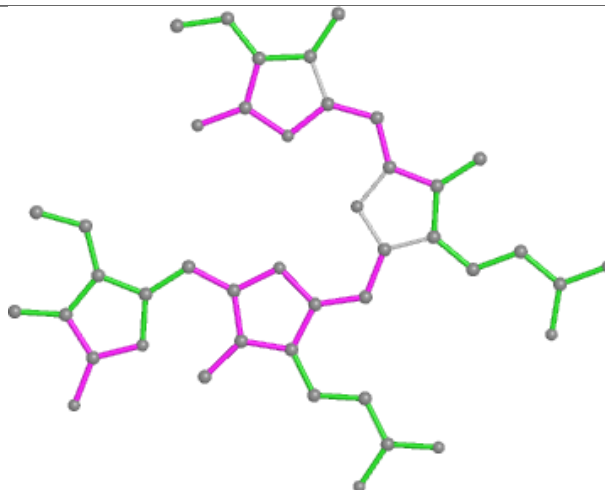




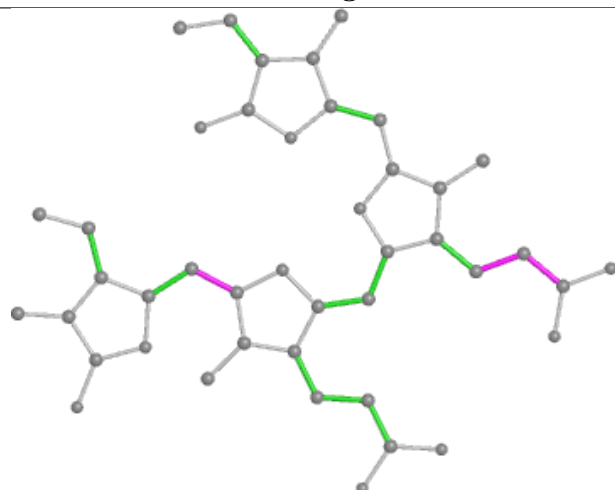
Ligand PEB dM 201



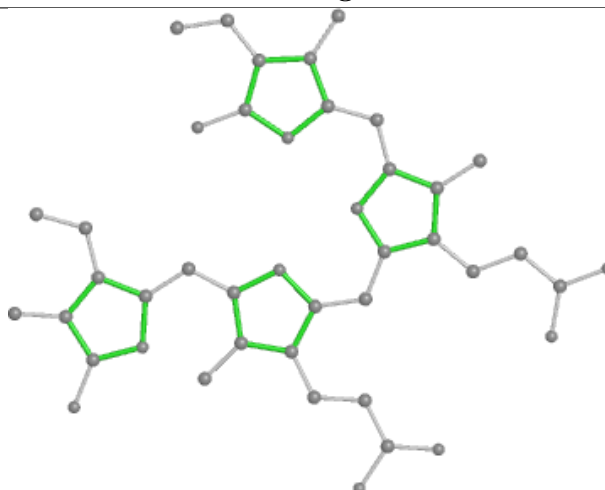
Bond lengths



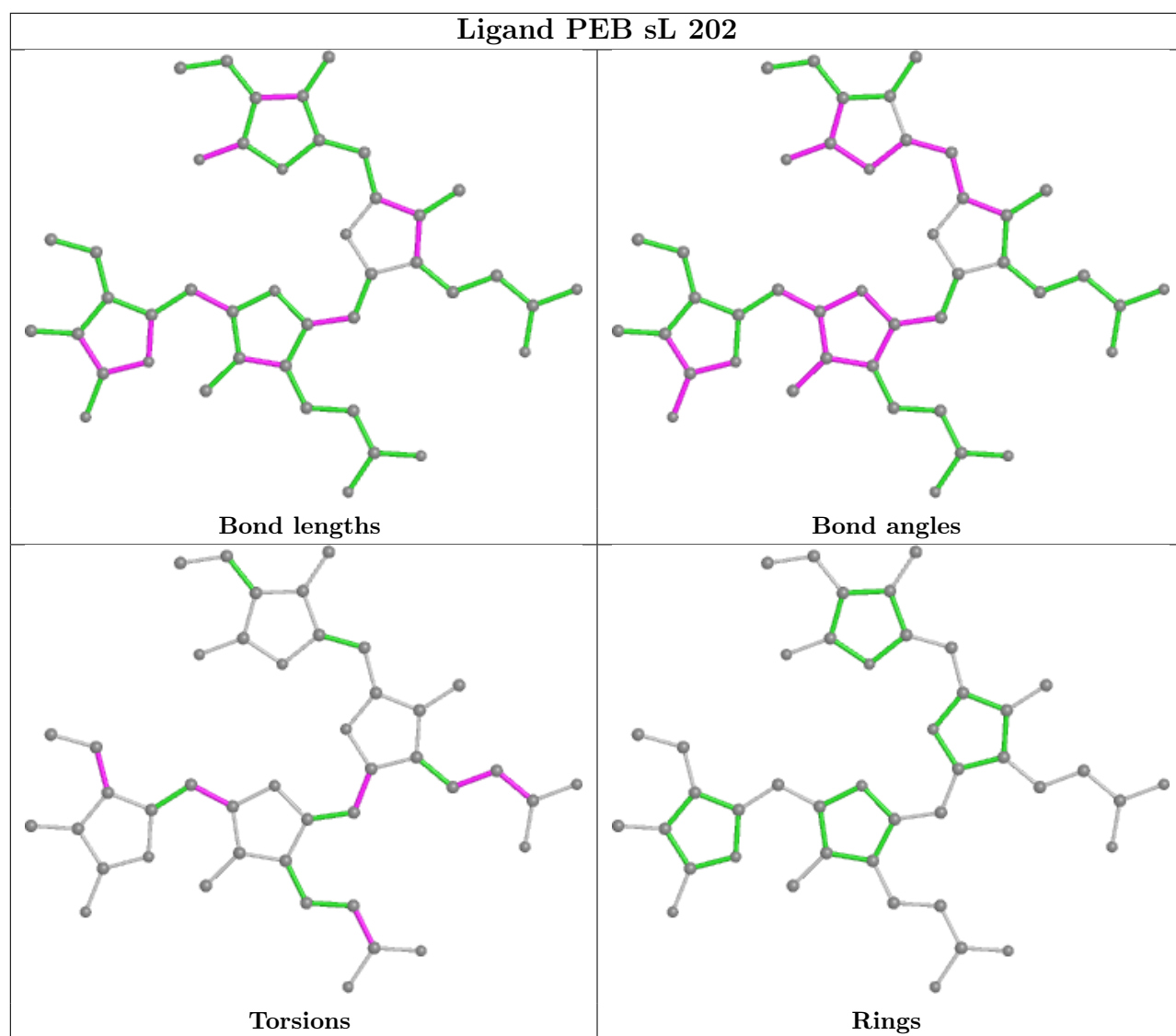
Bond angles



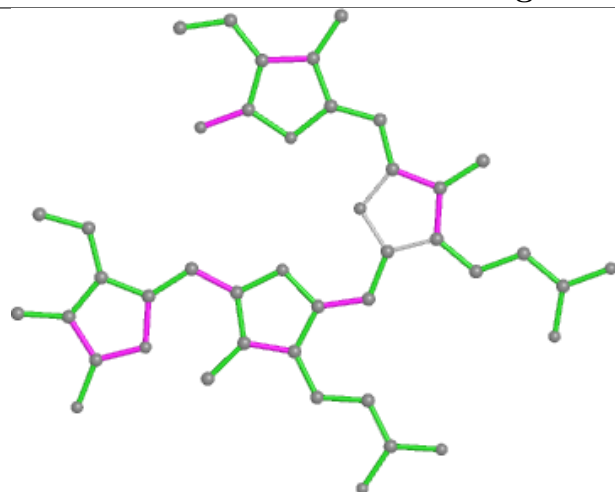
Torsions



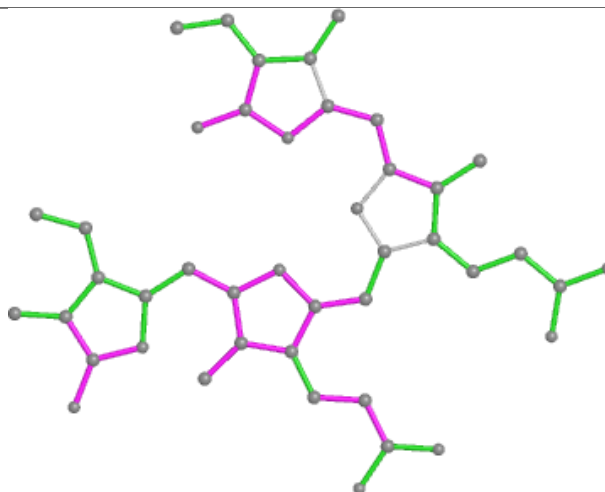
Rings



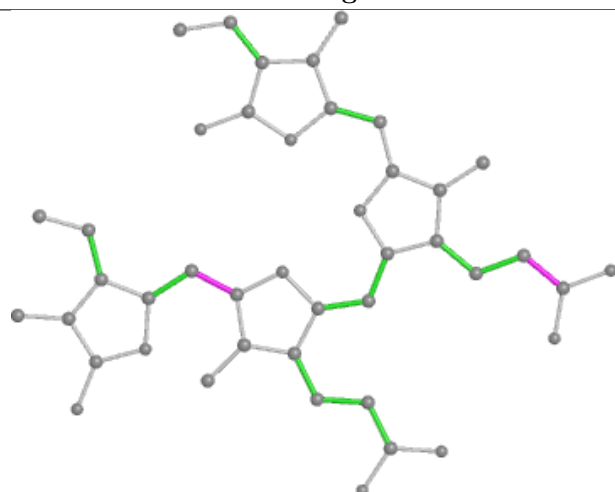
Ligand PEB i9 201



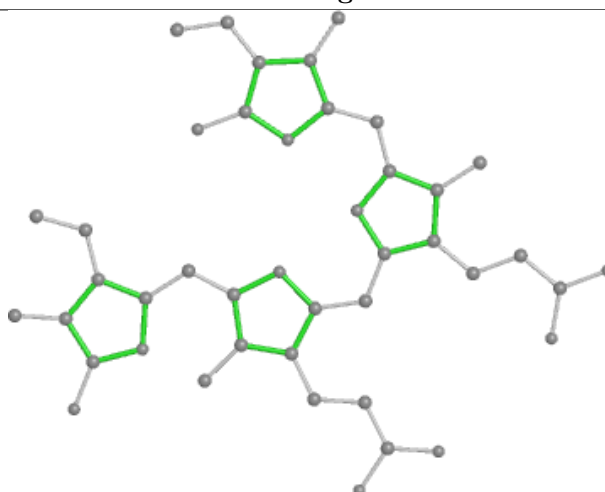
Bond lengths



Bond angles

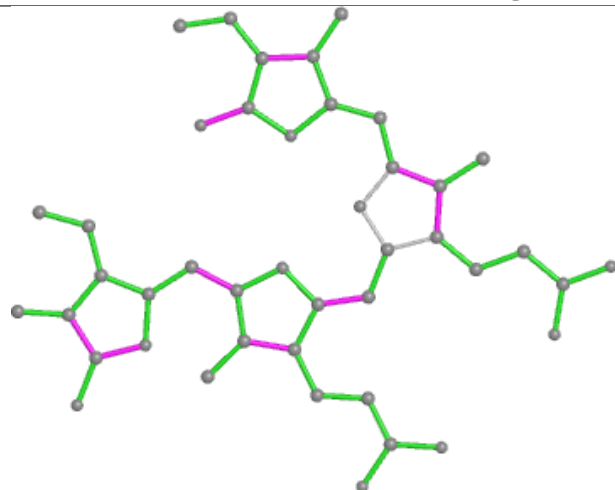


Torsions

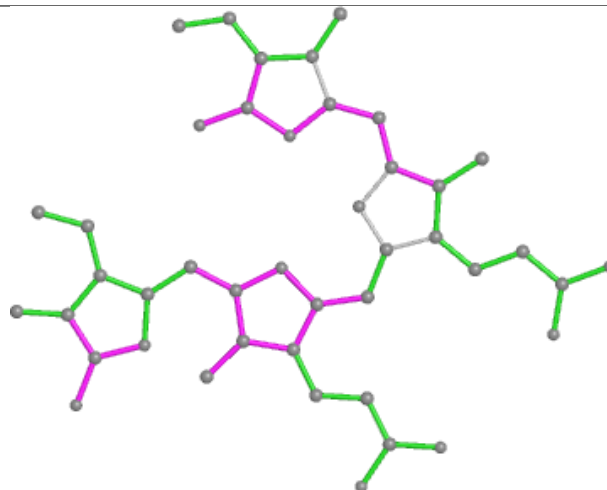


Rings

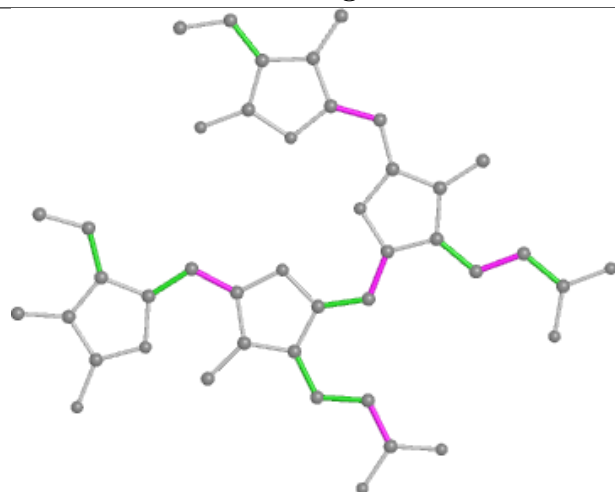
Ligand PEB LE 203



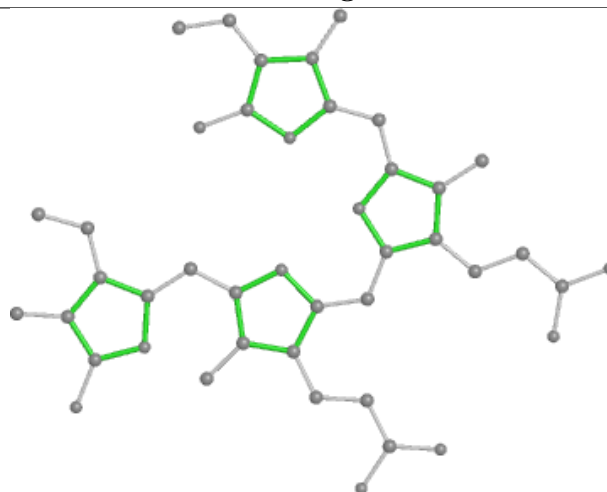
Bond lengths



Bond angles

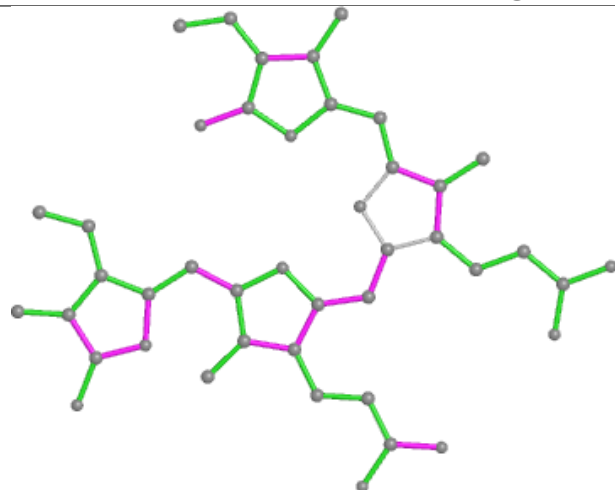


Torsions

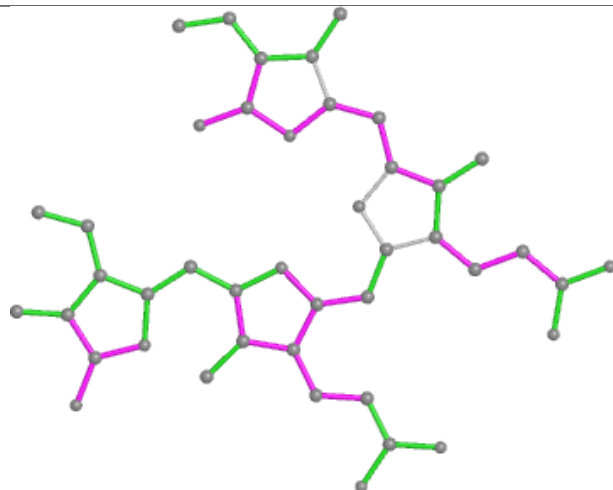


Rings

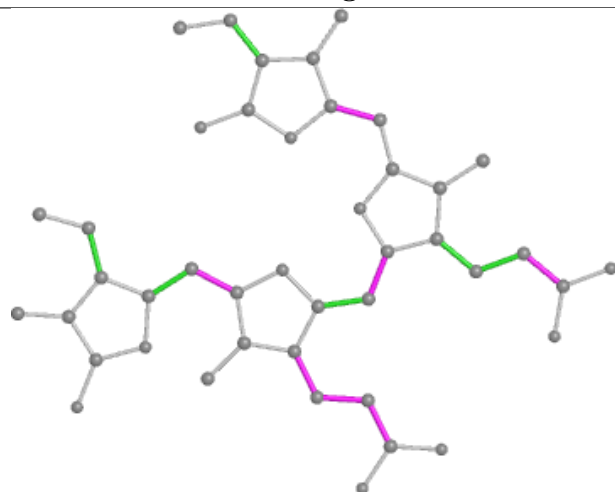
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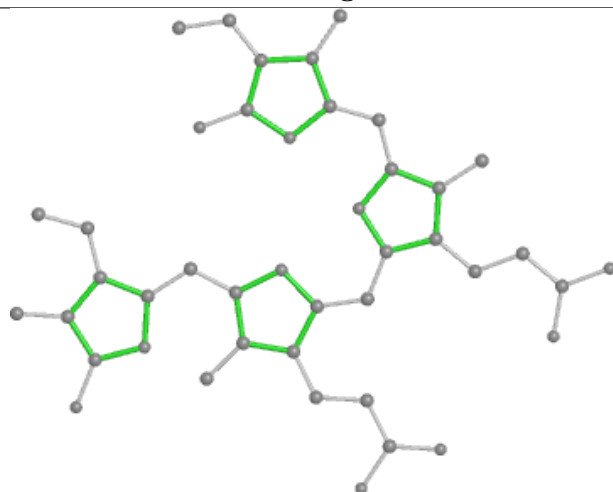
Bond lengths



Bond angles

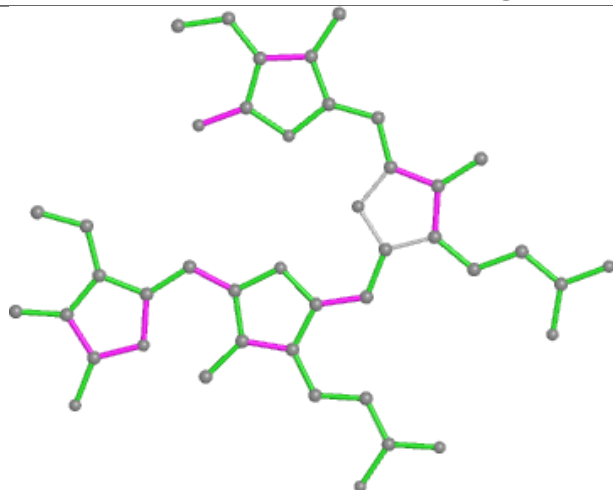


Torsions

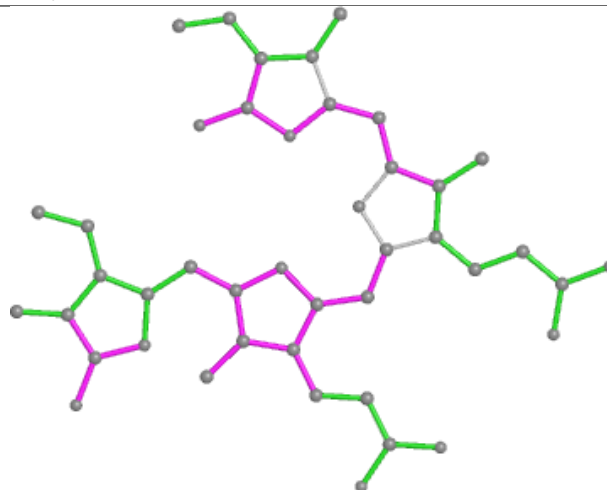


Rings

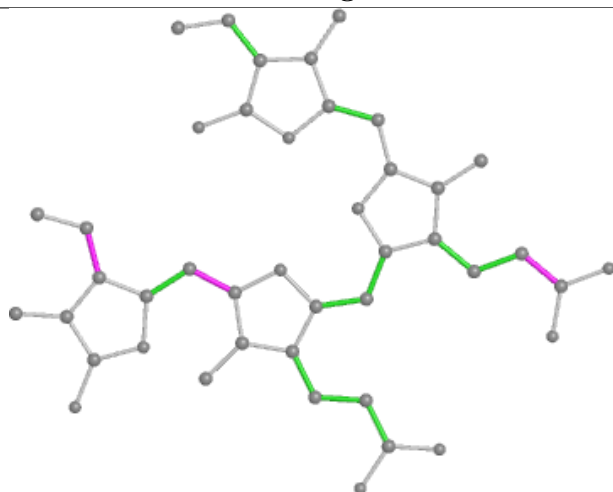
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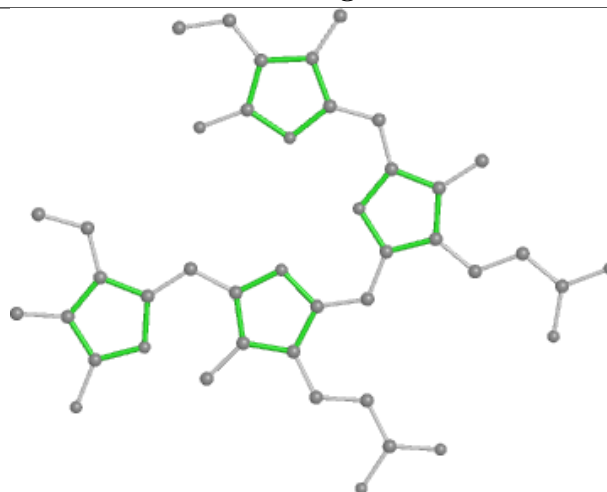
Bond lengths



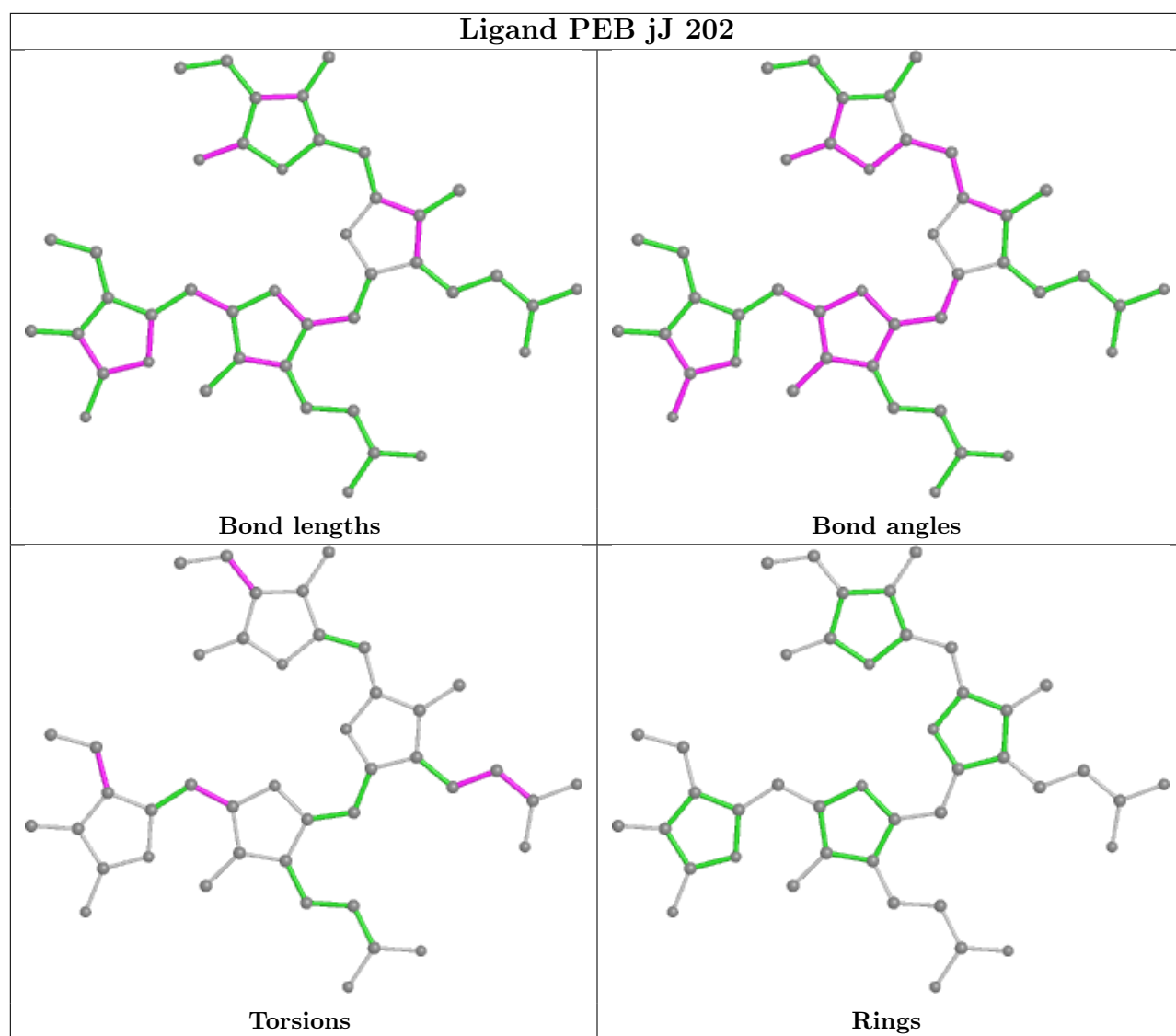
Bond angles

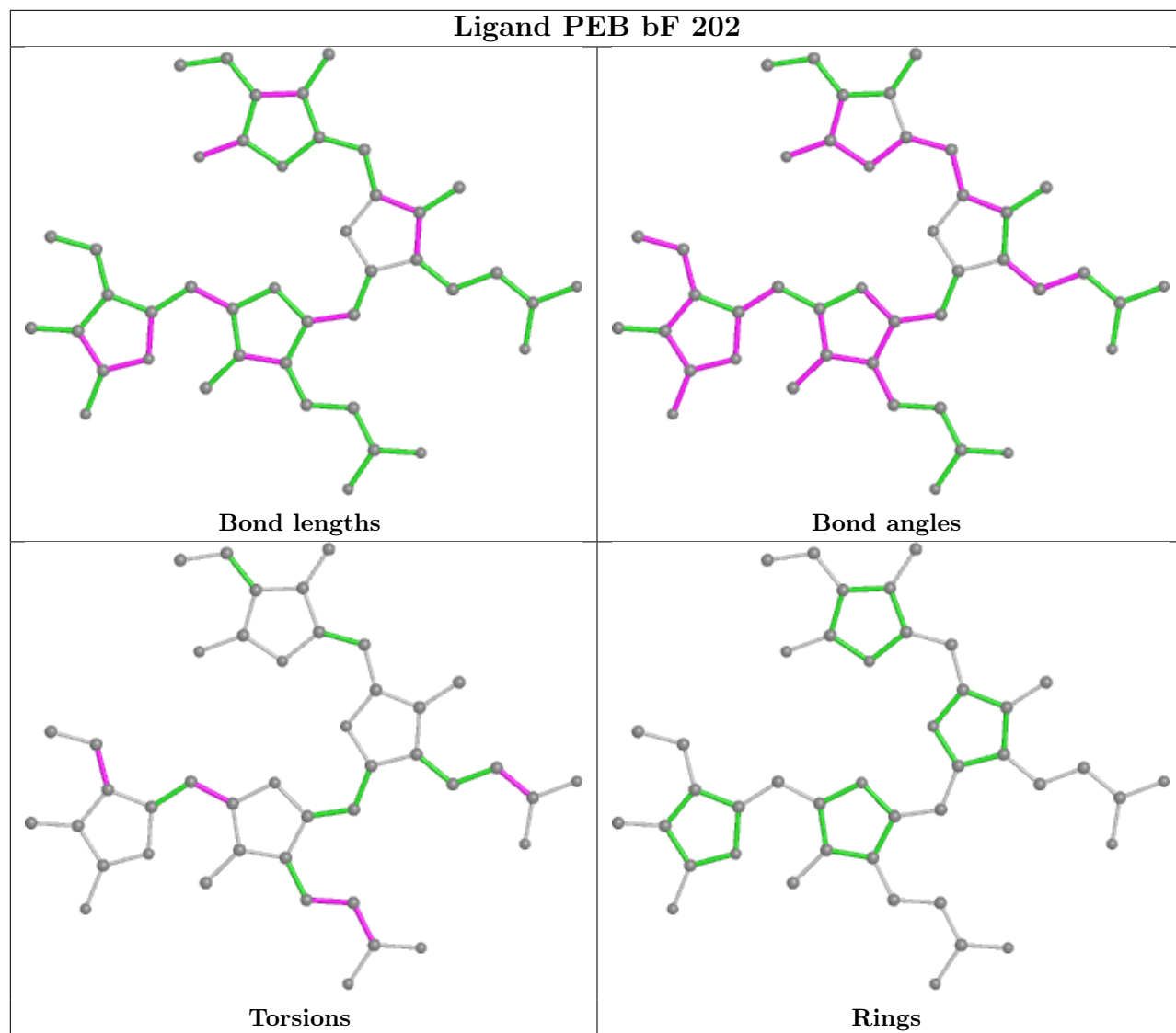


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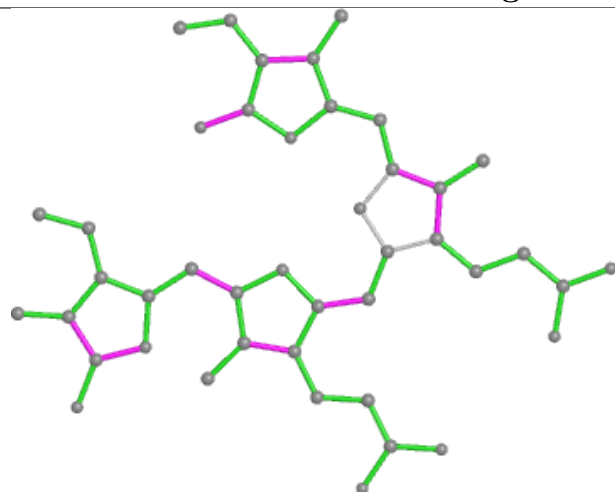


Rings

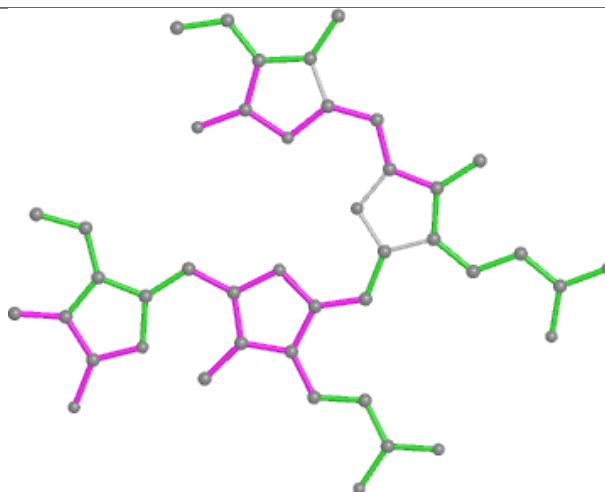




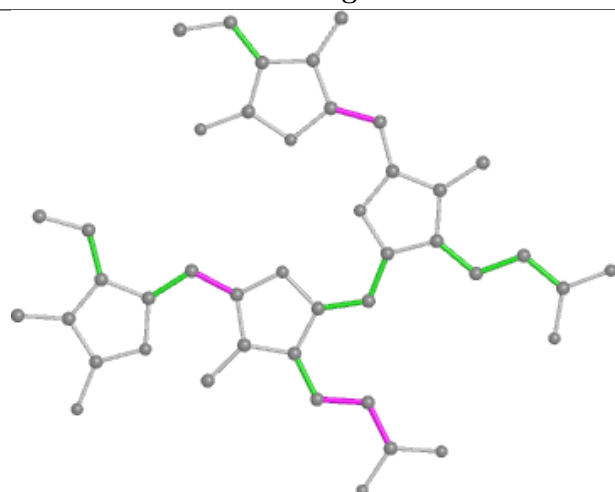
Ligand PEB YK 202



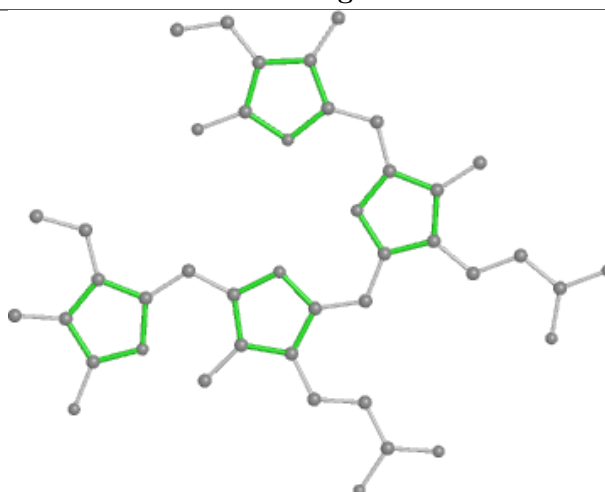
Bond lengths



Bond angles

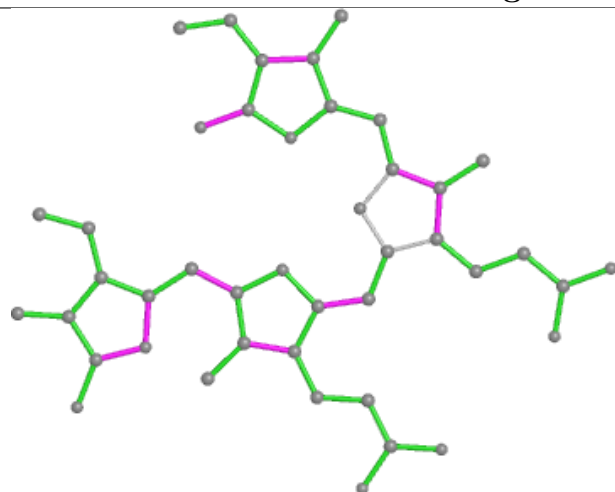


Torsions

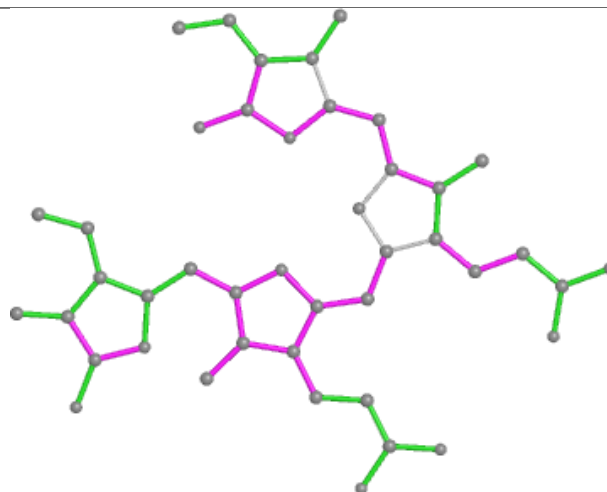


Rings

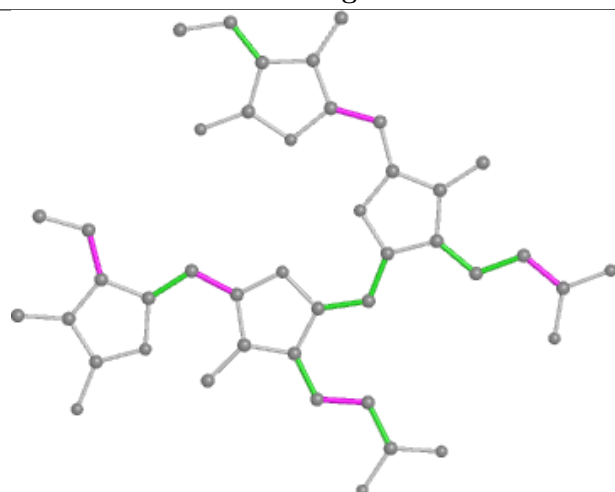
Ligand PEB MJ 201



Bond lengths



Bond angles

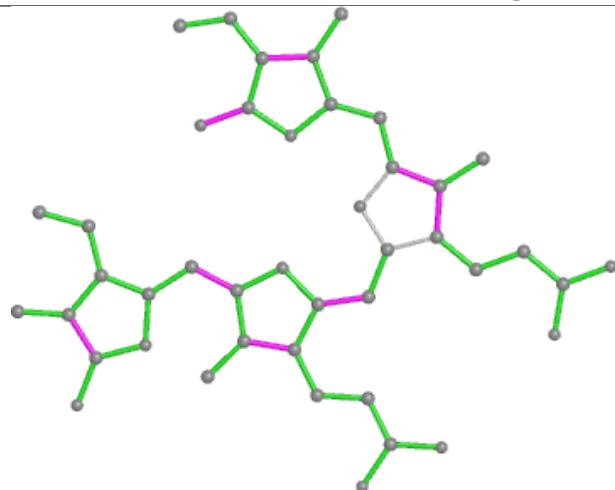


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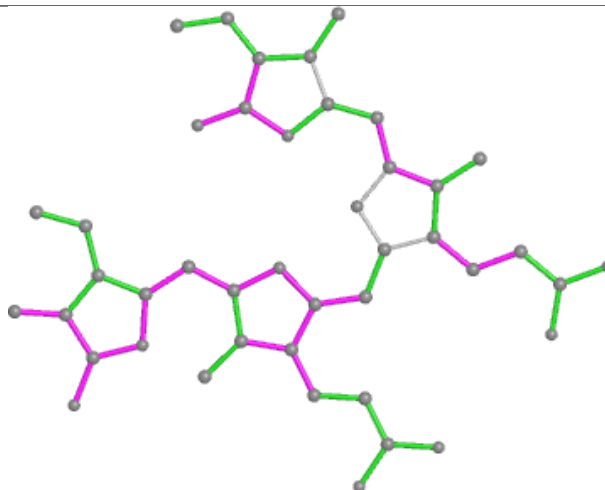


Rings

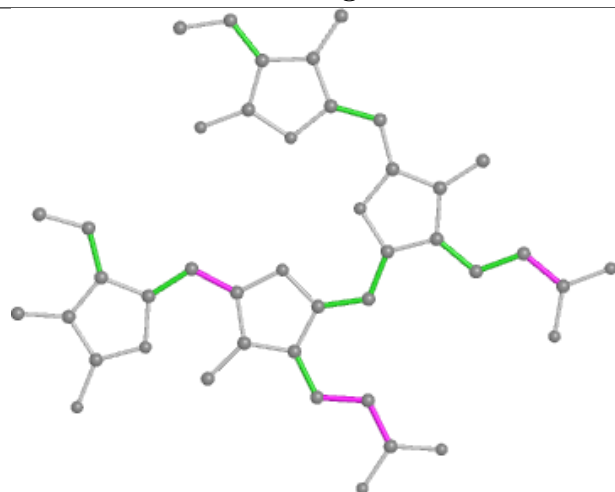
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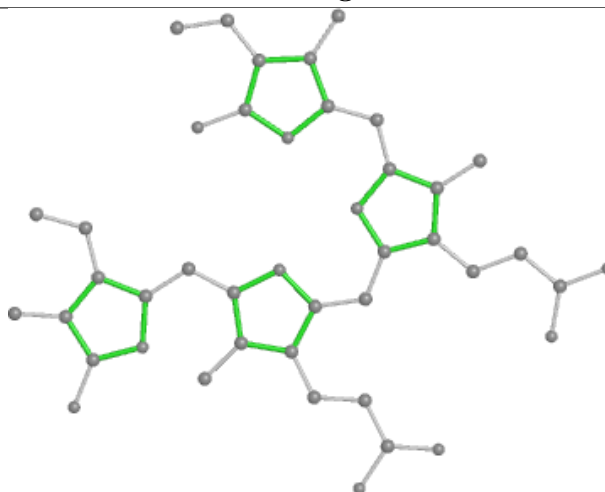
Bond lengths



Bond angles

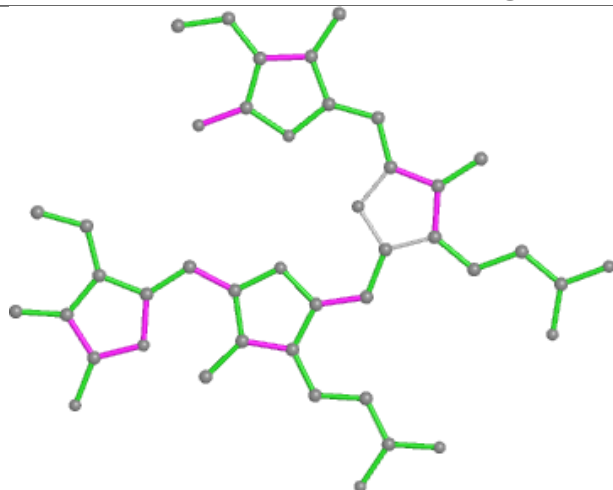


Torsions

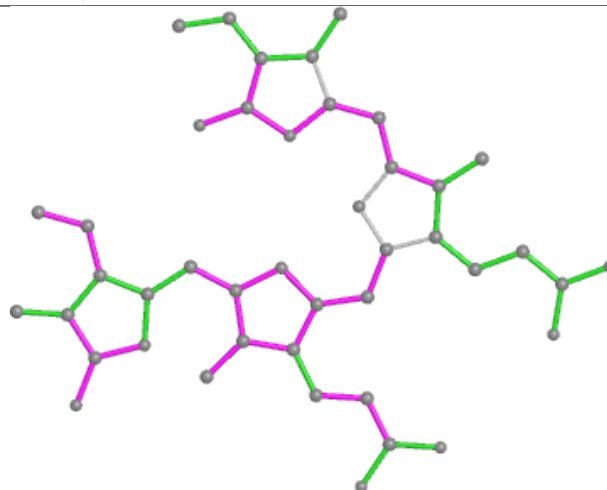


Rings

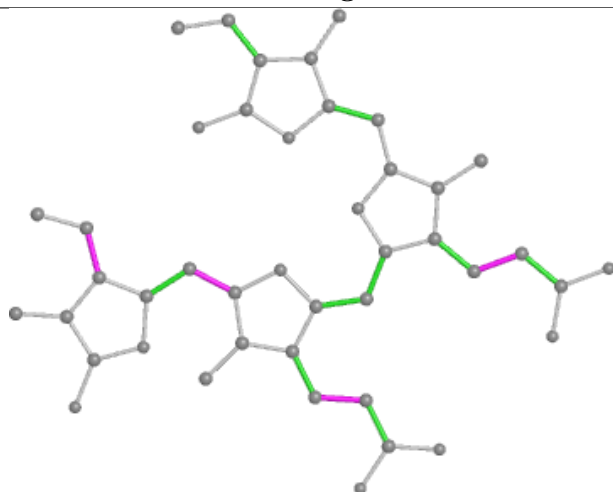
Ligand PEB BQ 202



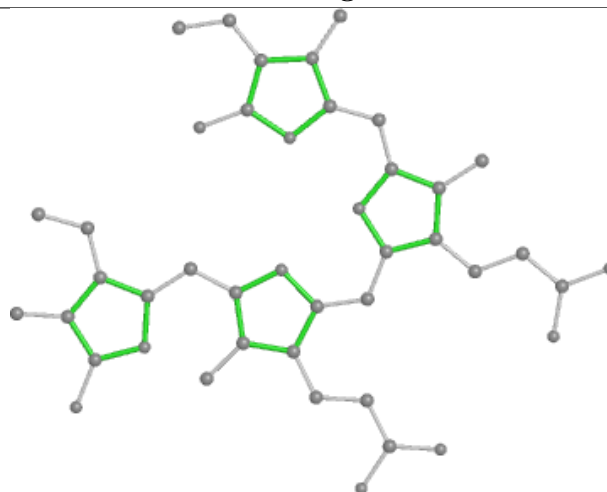
Bond lengths



Bond angles

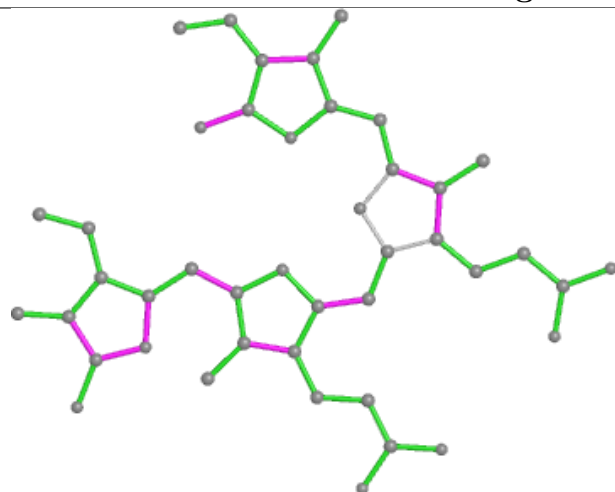


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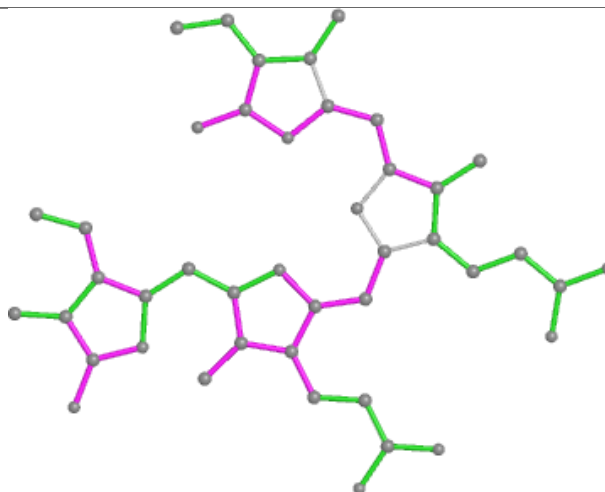


Rings

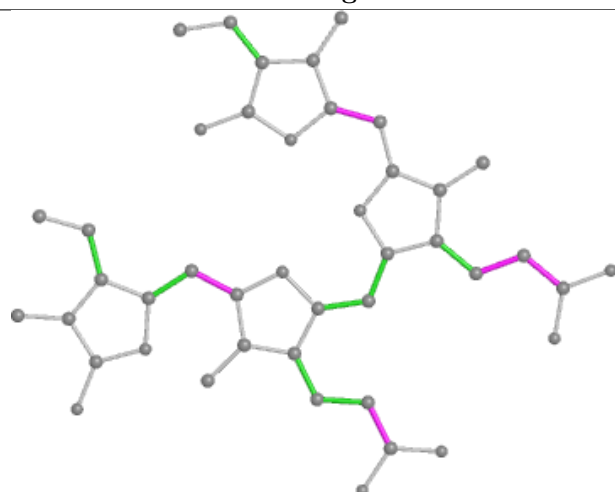
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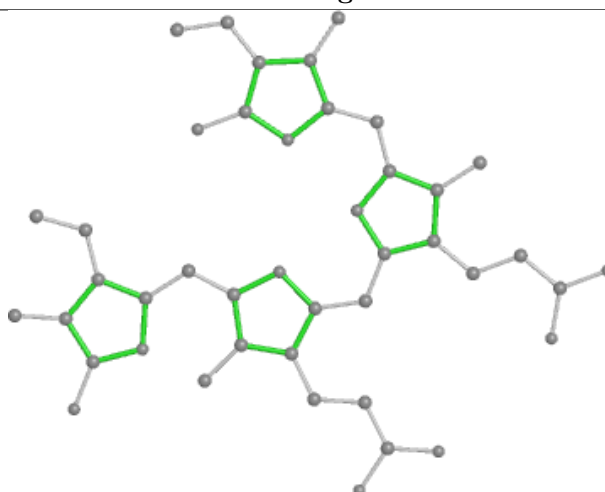
Bond lengths



Bond angles

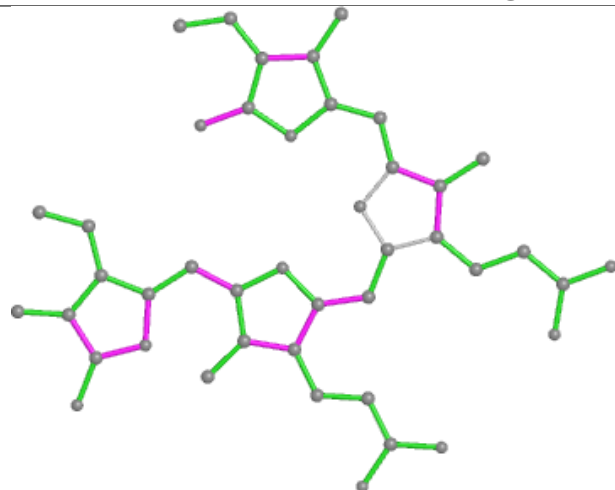


Torsions

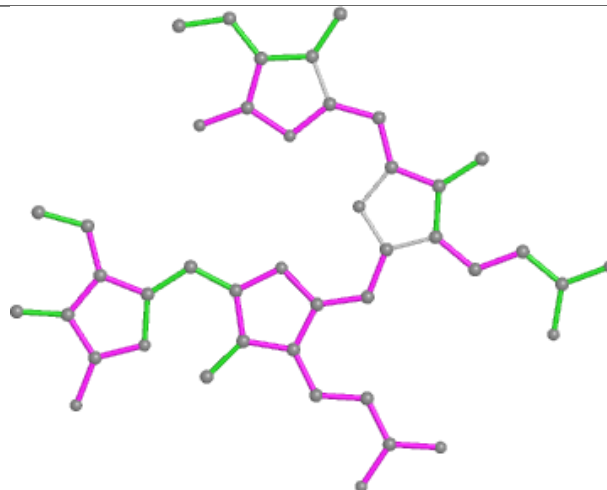


Rings

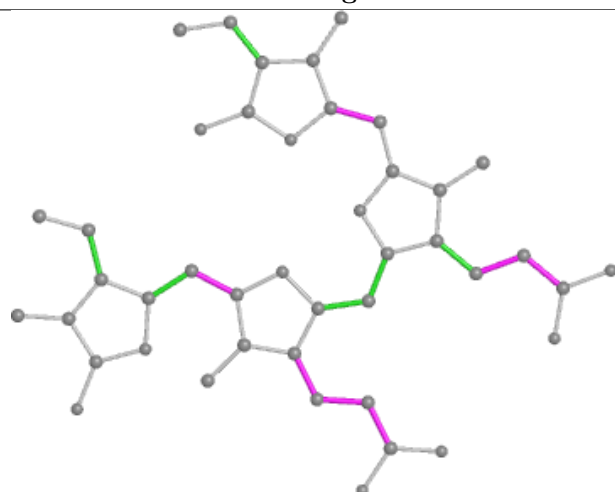
Ligand PEB DN 201



Bond lengths



Bond angles

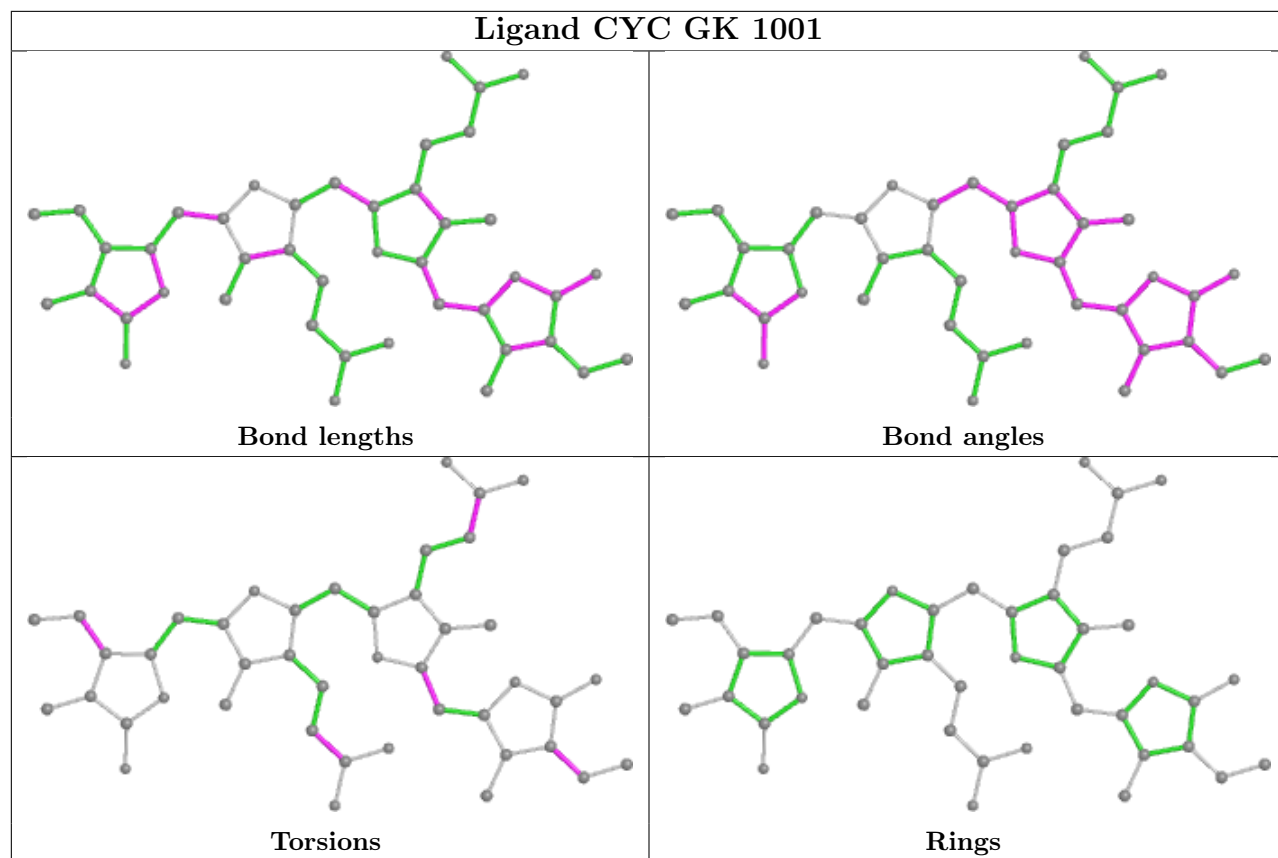


Torsions

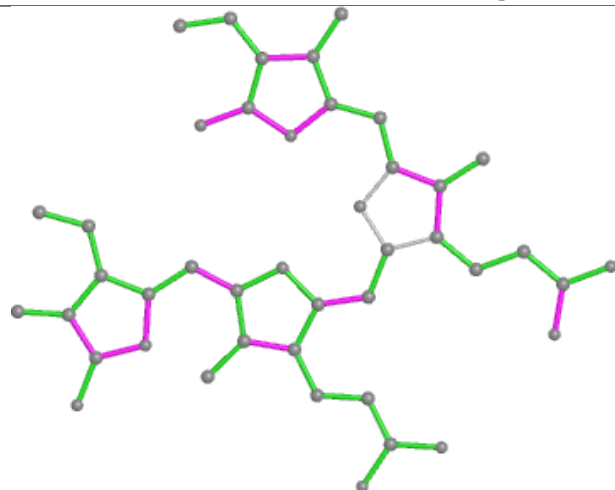


Rings

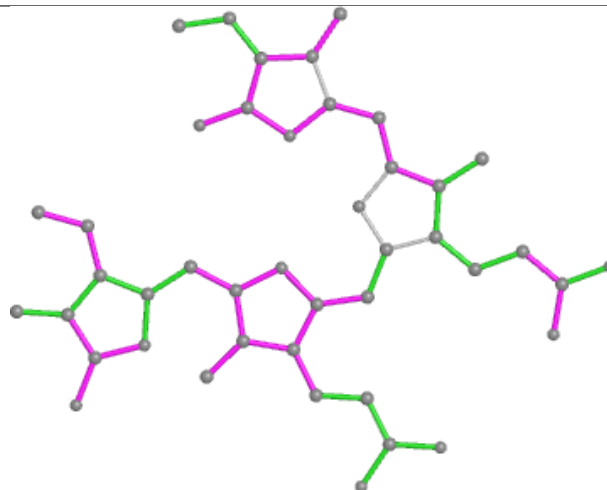
Ligand CYC GK 1001



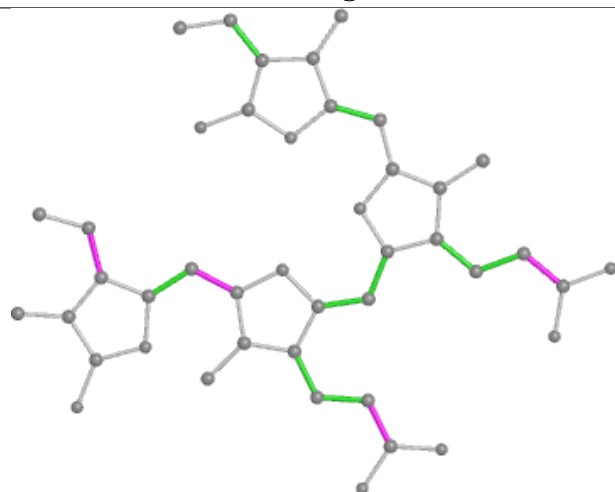
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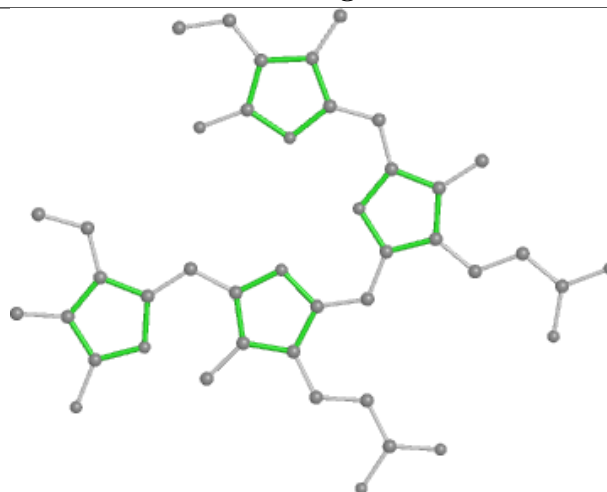
Bond lengths



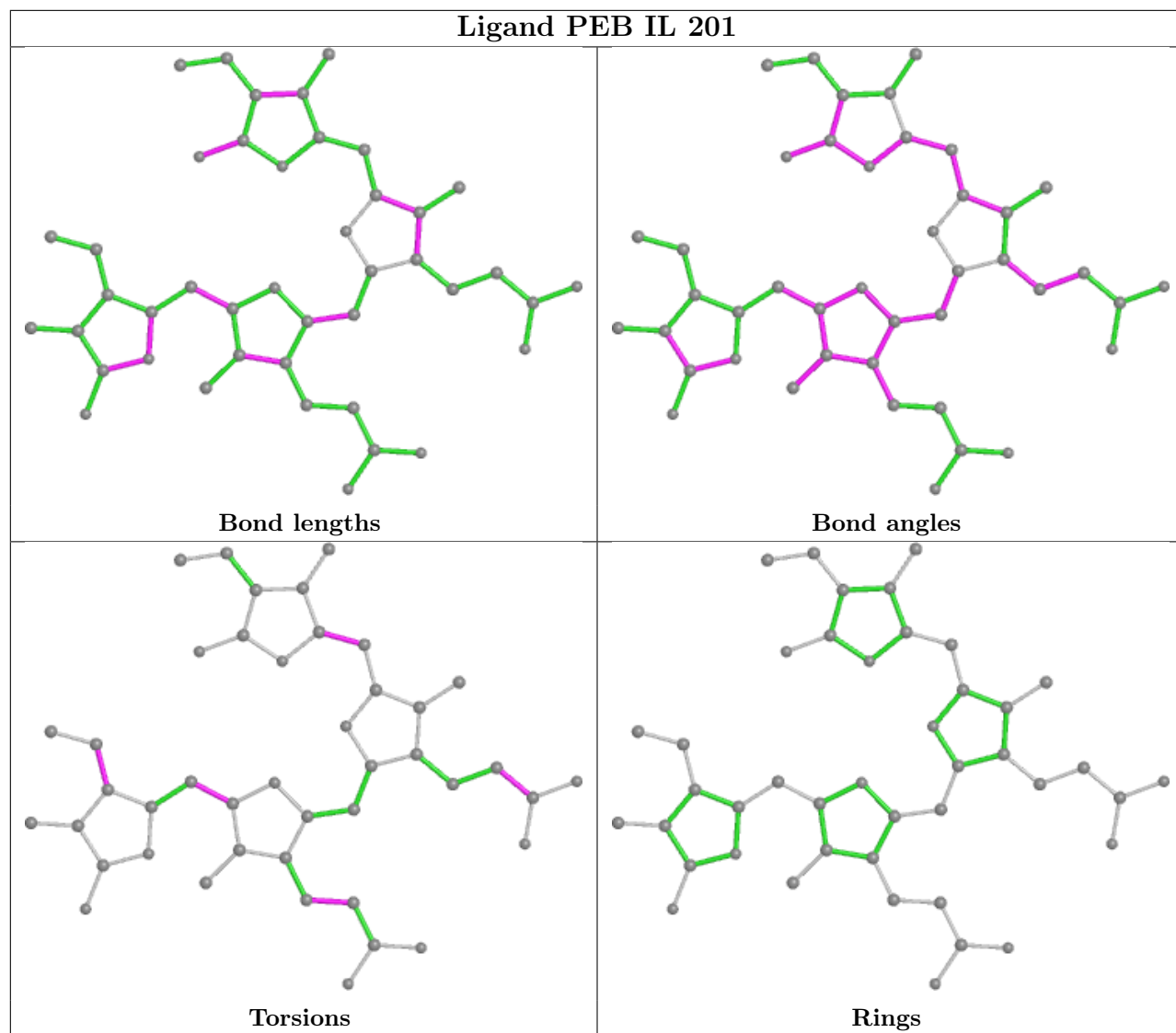
Bond angles

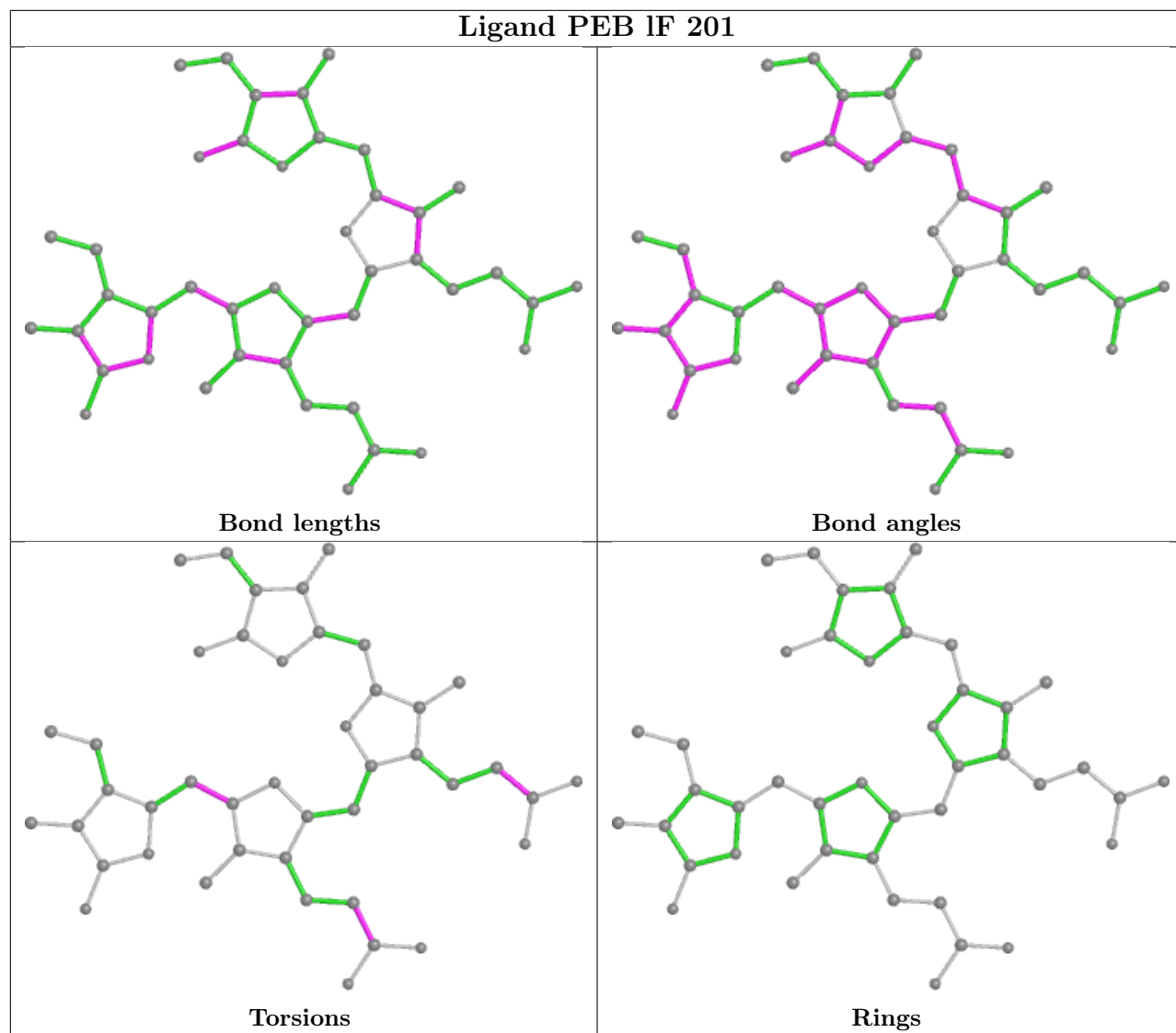


Torsions

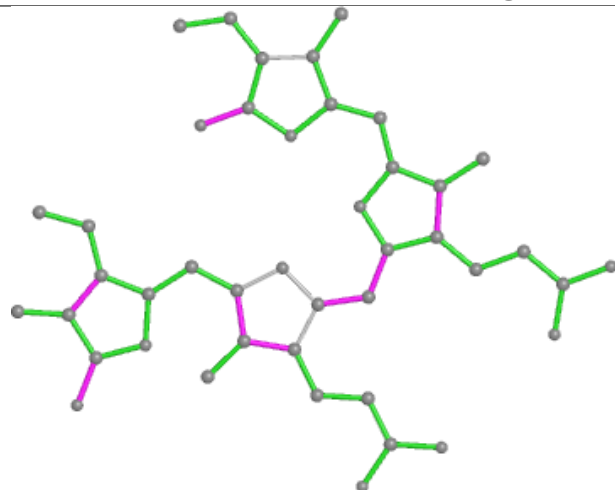


Rings

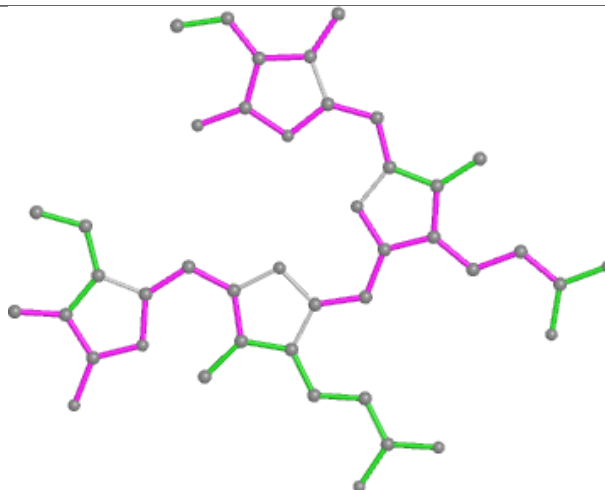




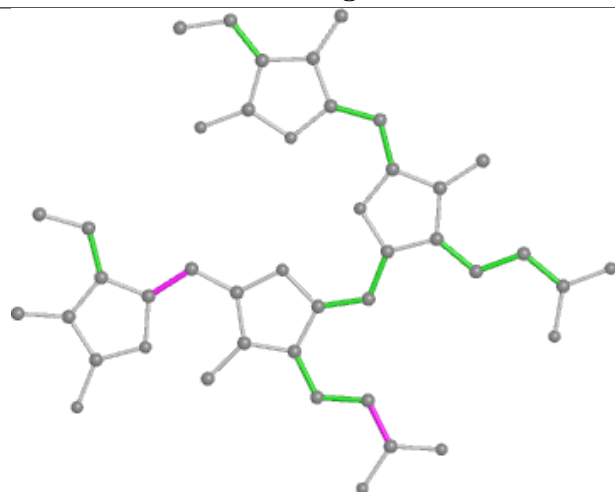
Ligand PUB AK 304



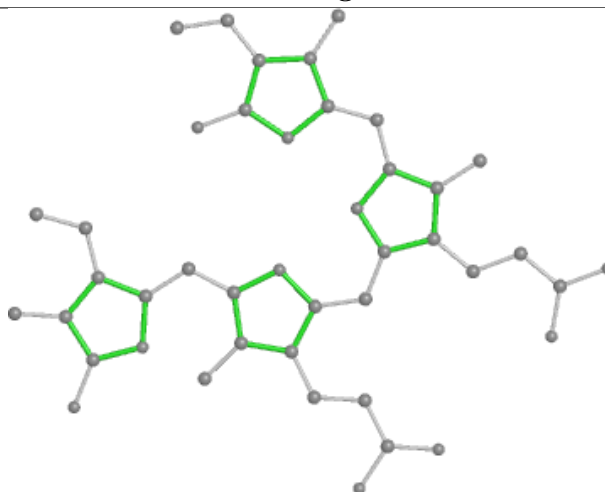
Bond lengths



Bond angles

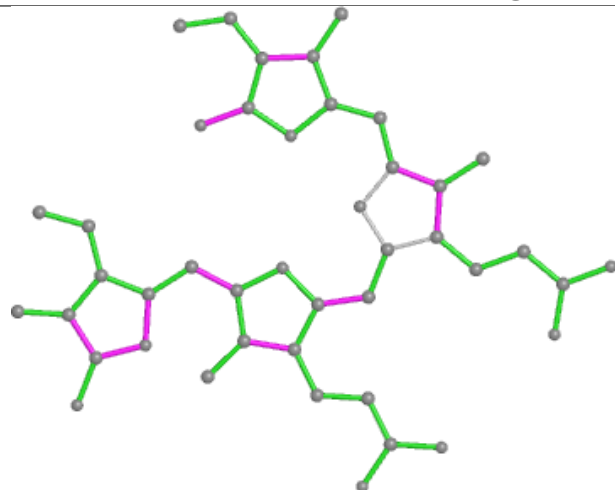


Torsions

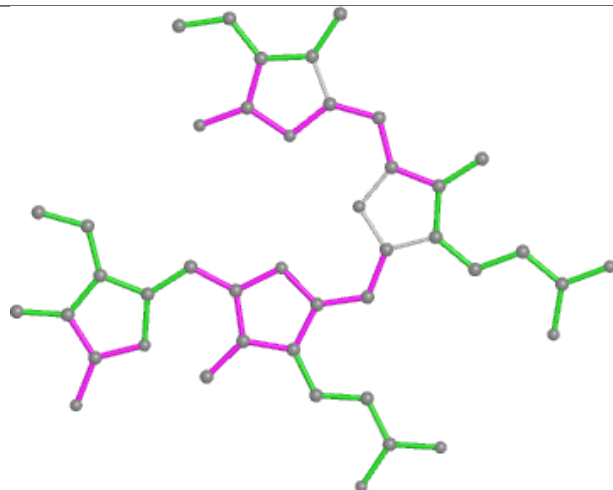


Rings

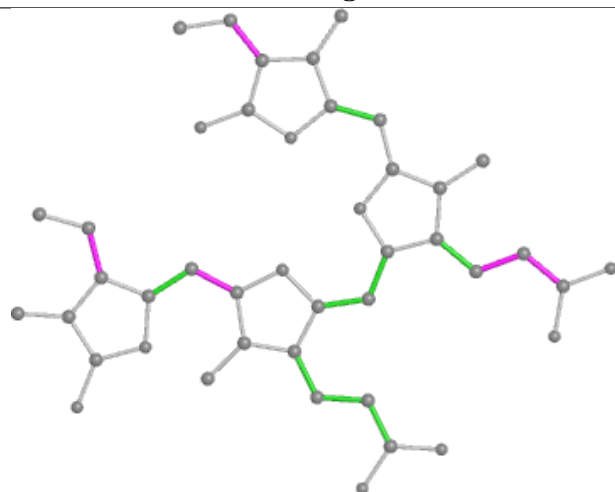
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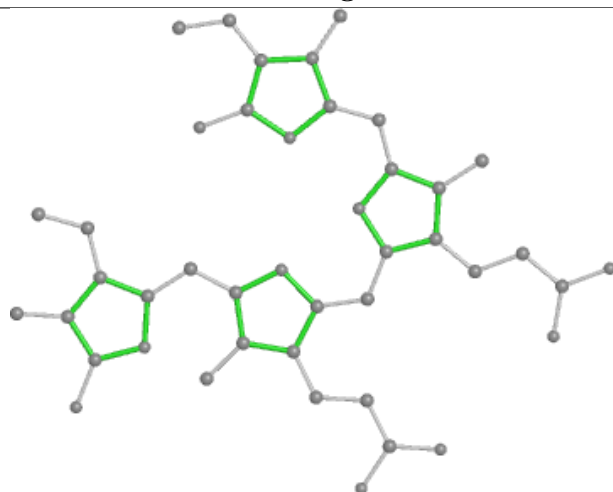
Bond lengths



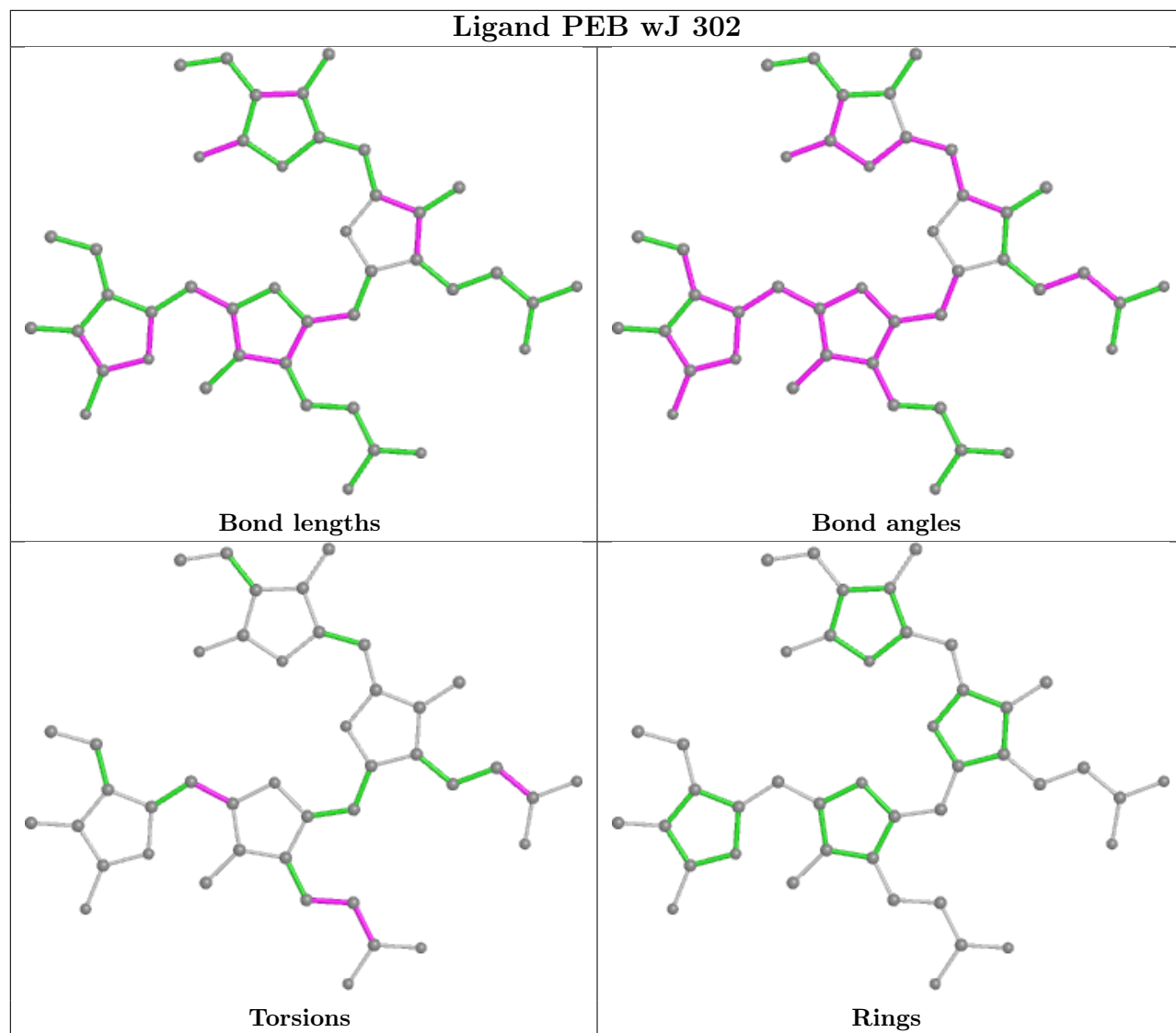
Bond angles



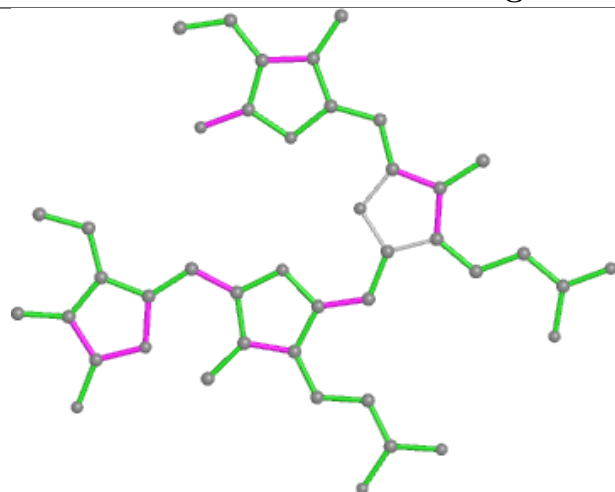
Torsions



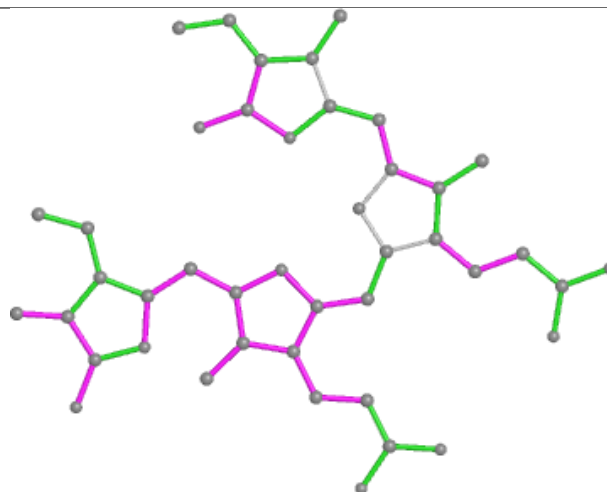
Rings



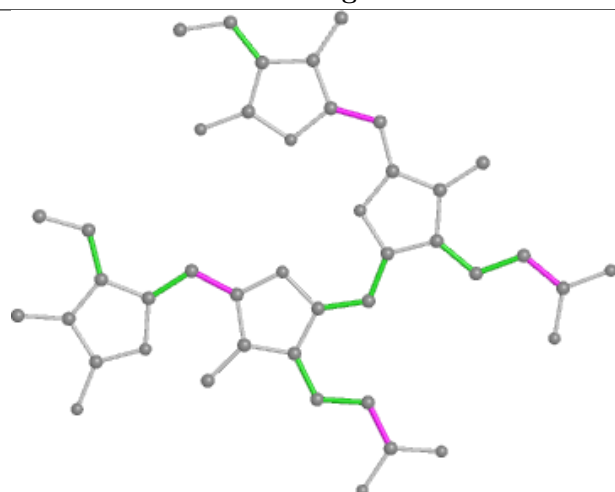
Ligand PEB bK 201



Bond lengths



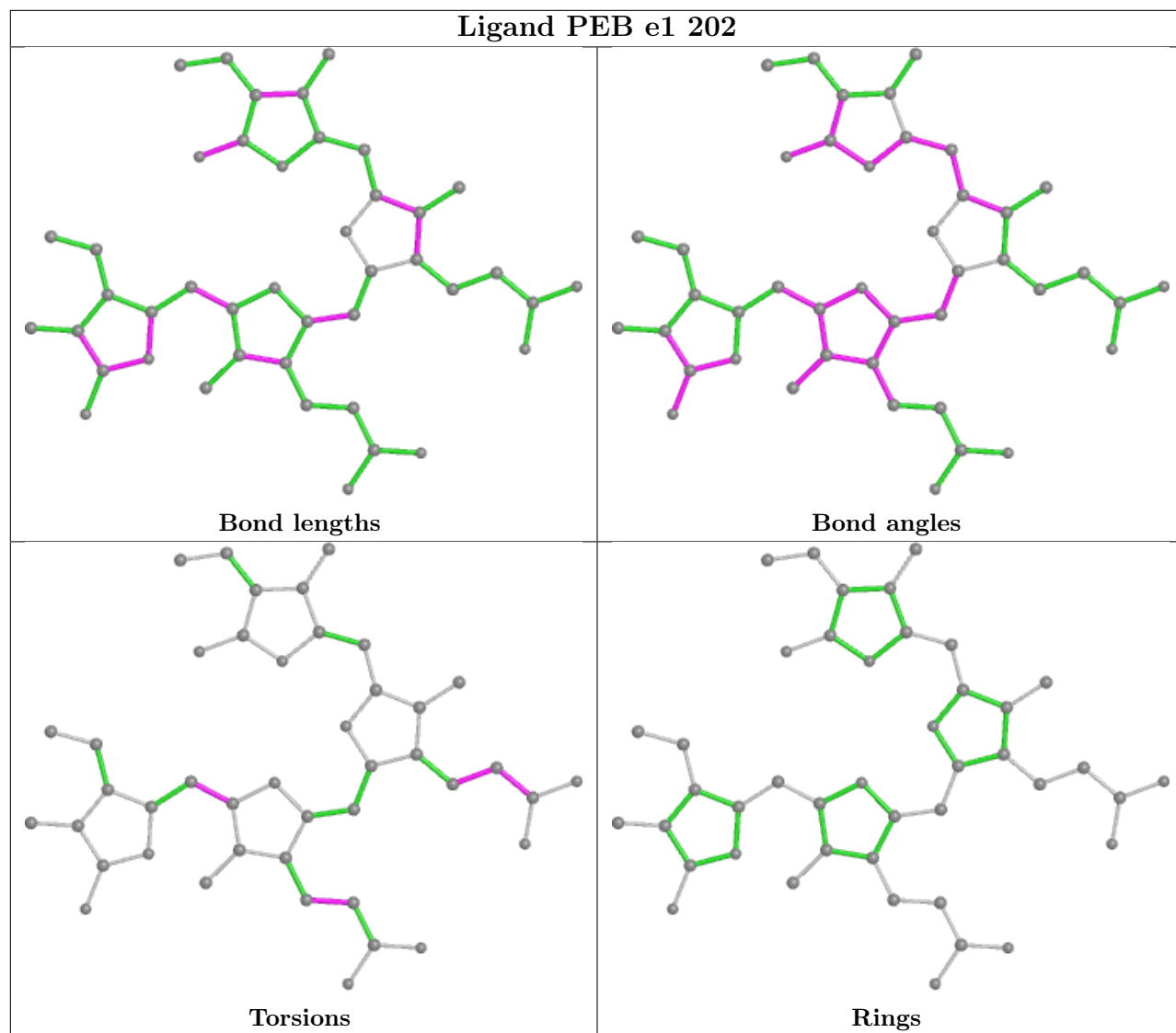
Bond angles

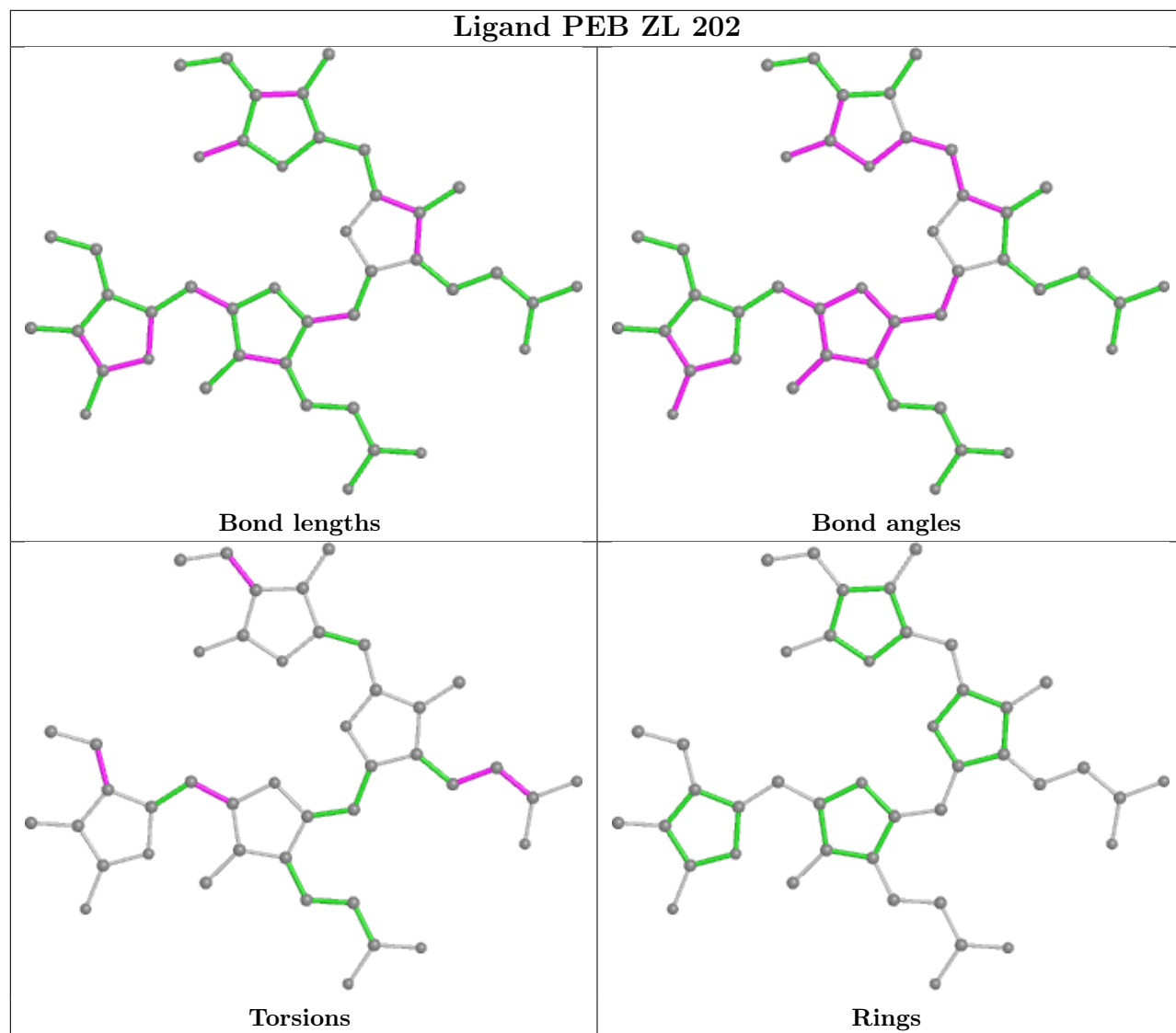


Torsions

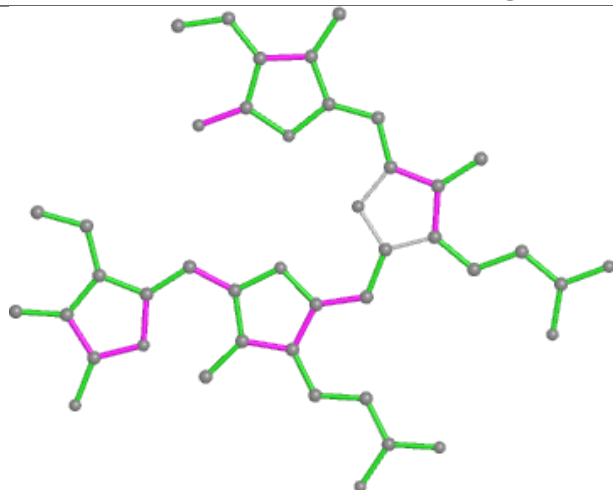


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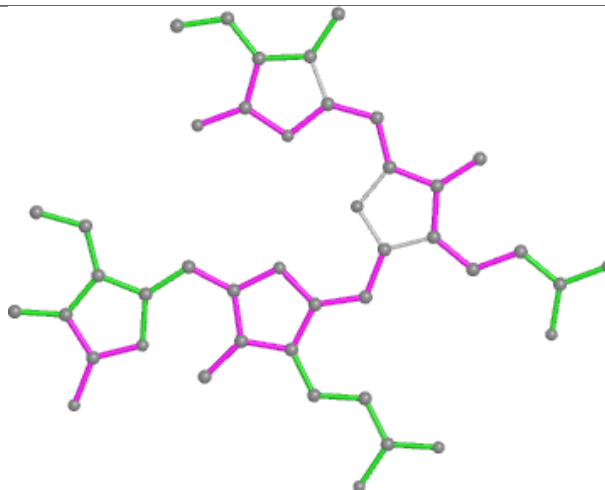




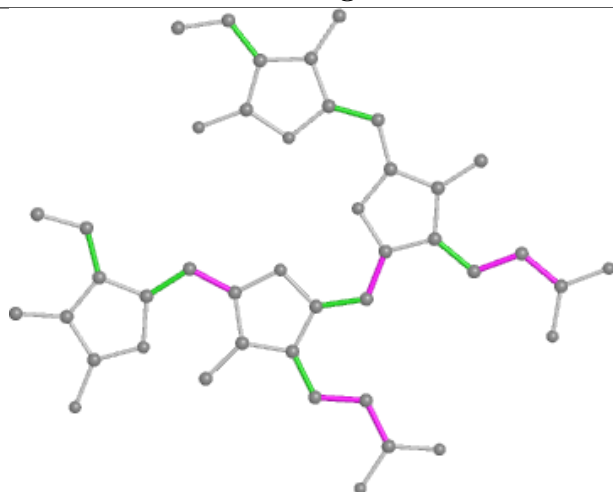
Ligand PEB YB 203



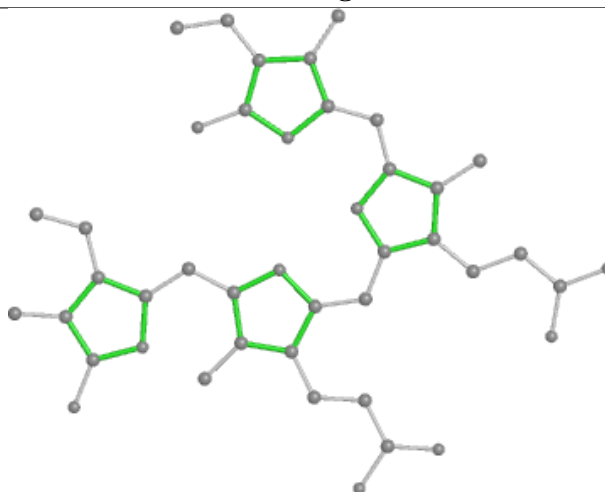
Bond lengths



Bond angles

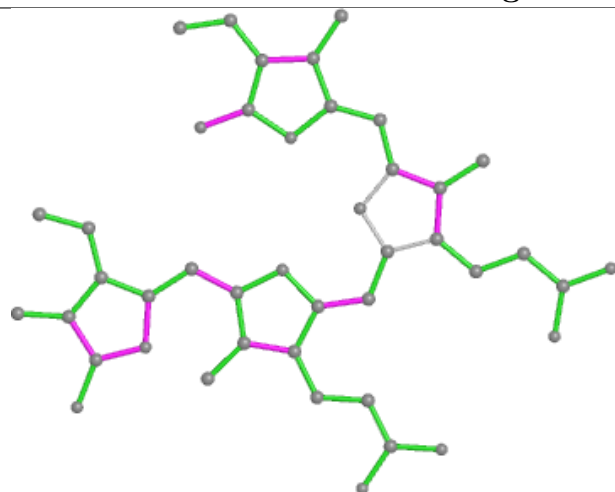


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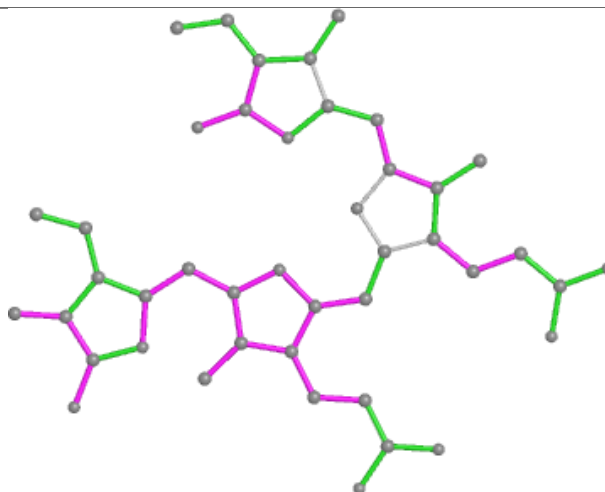


Rings

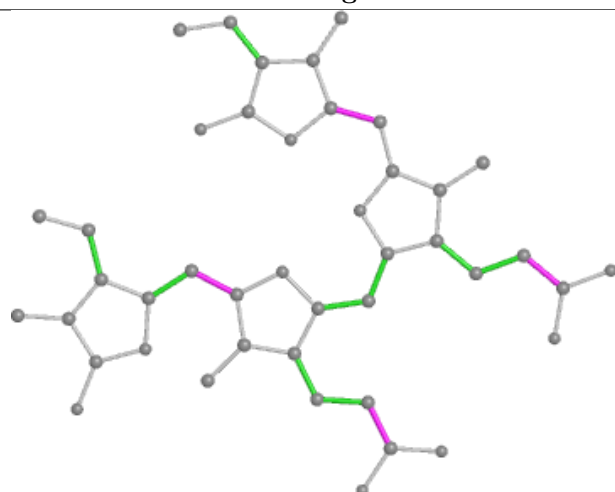
Ligand PEB W1 201



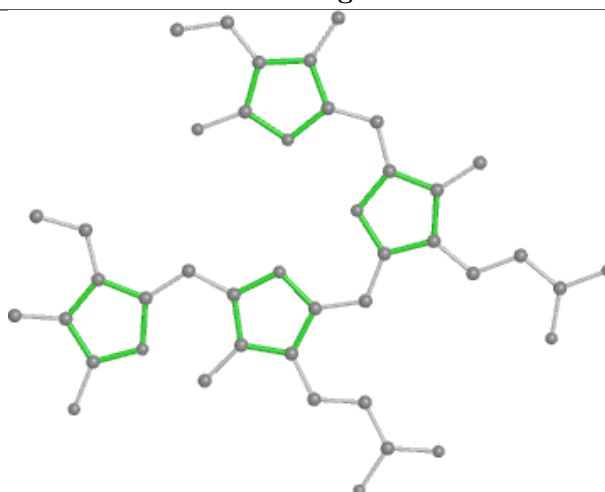
Bond lengths



Bond angles

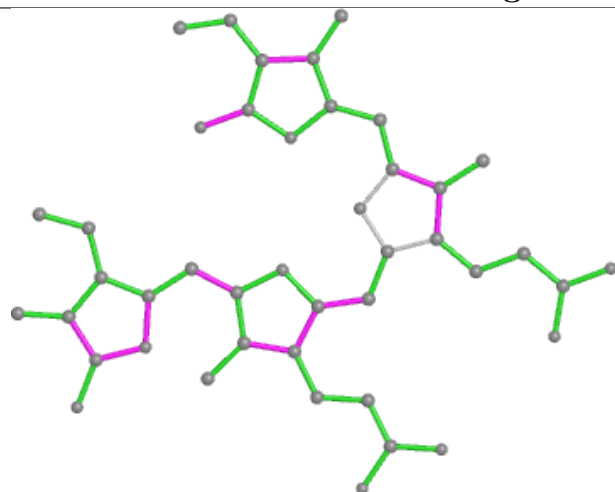


Torsions

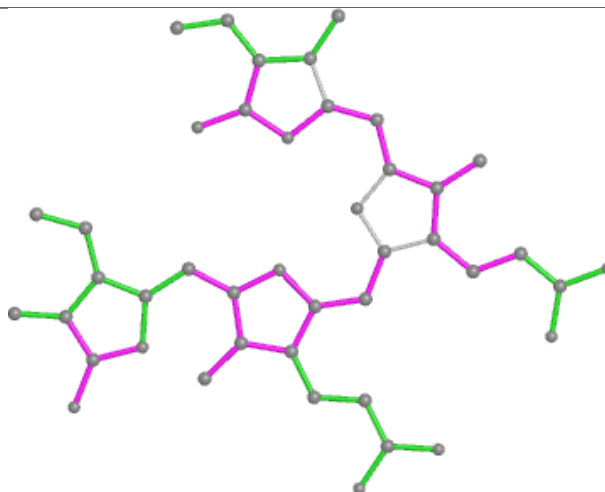


Rings

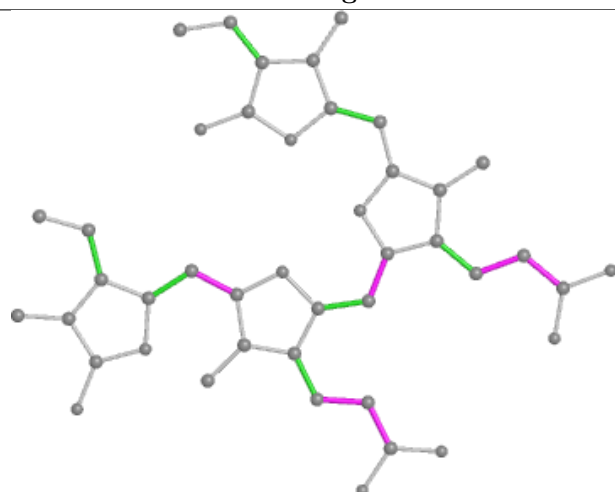
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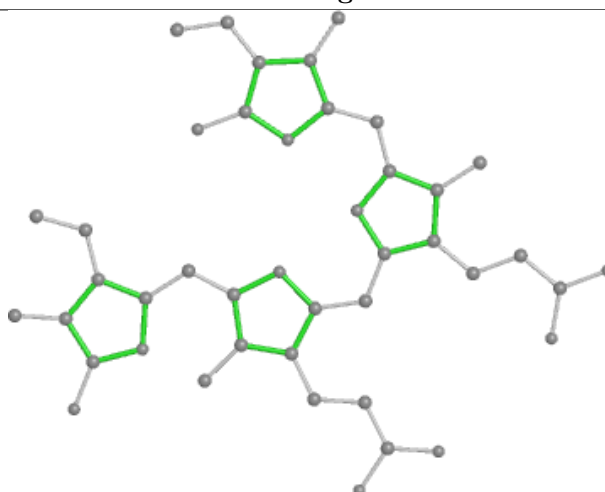
Bond lengths



Bond angles

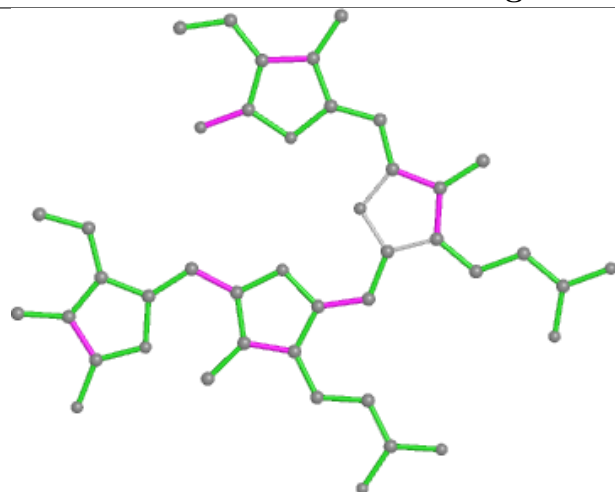


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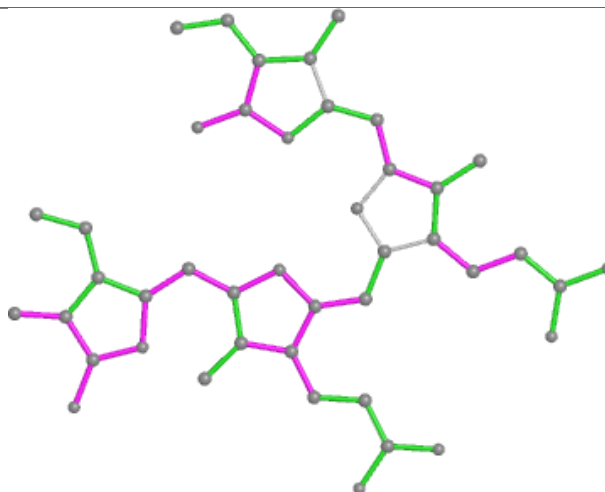


Rings

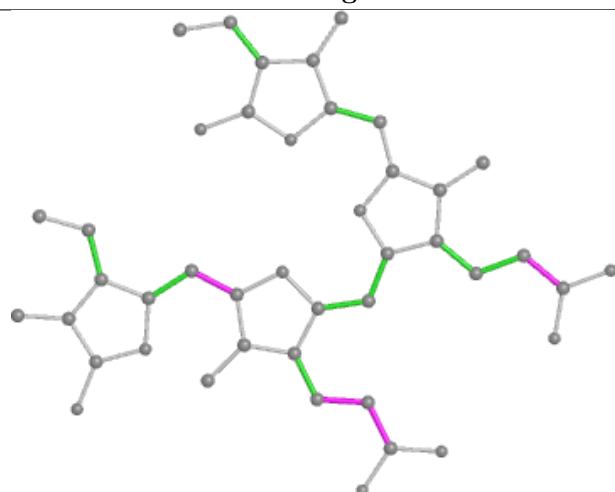
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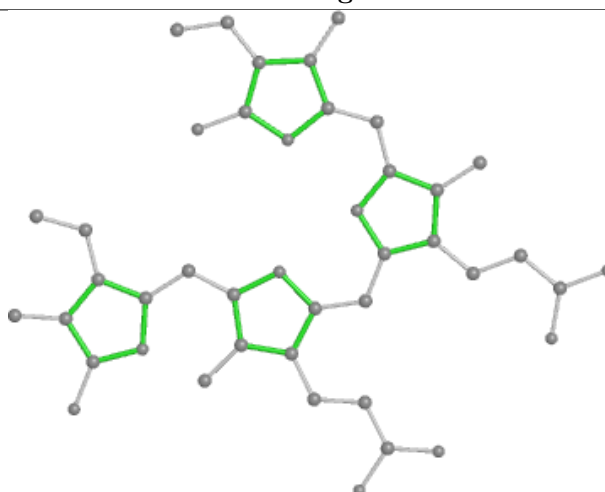
Bond lengths



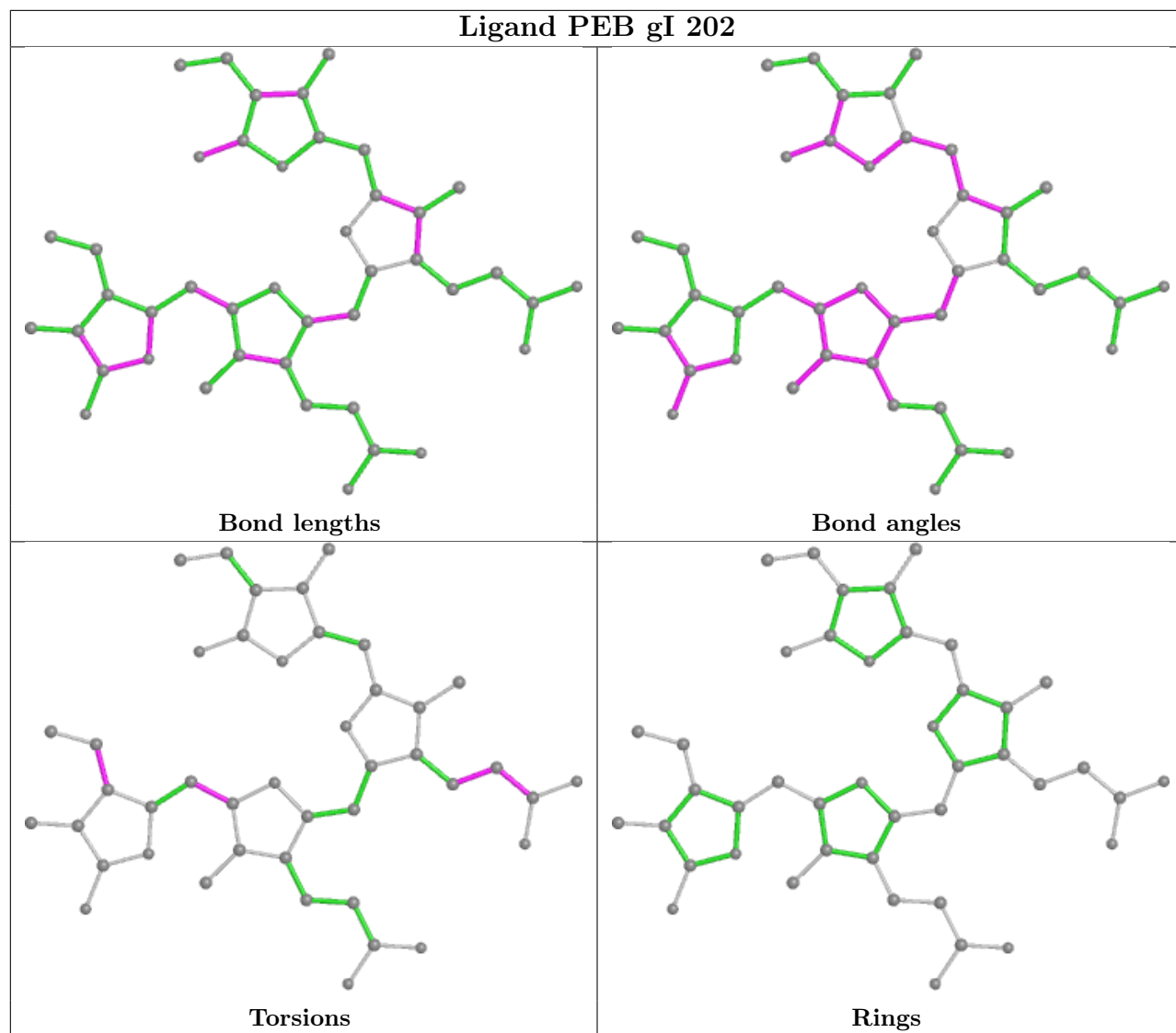
Bond angles

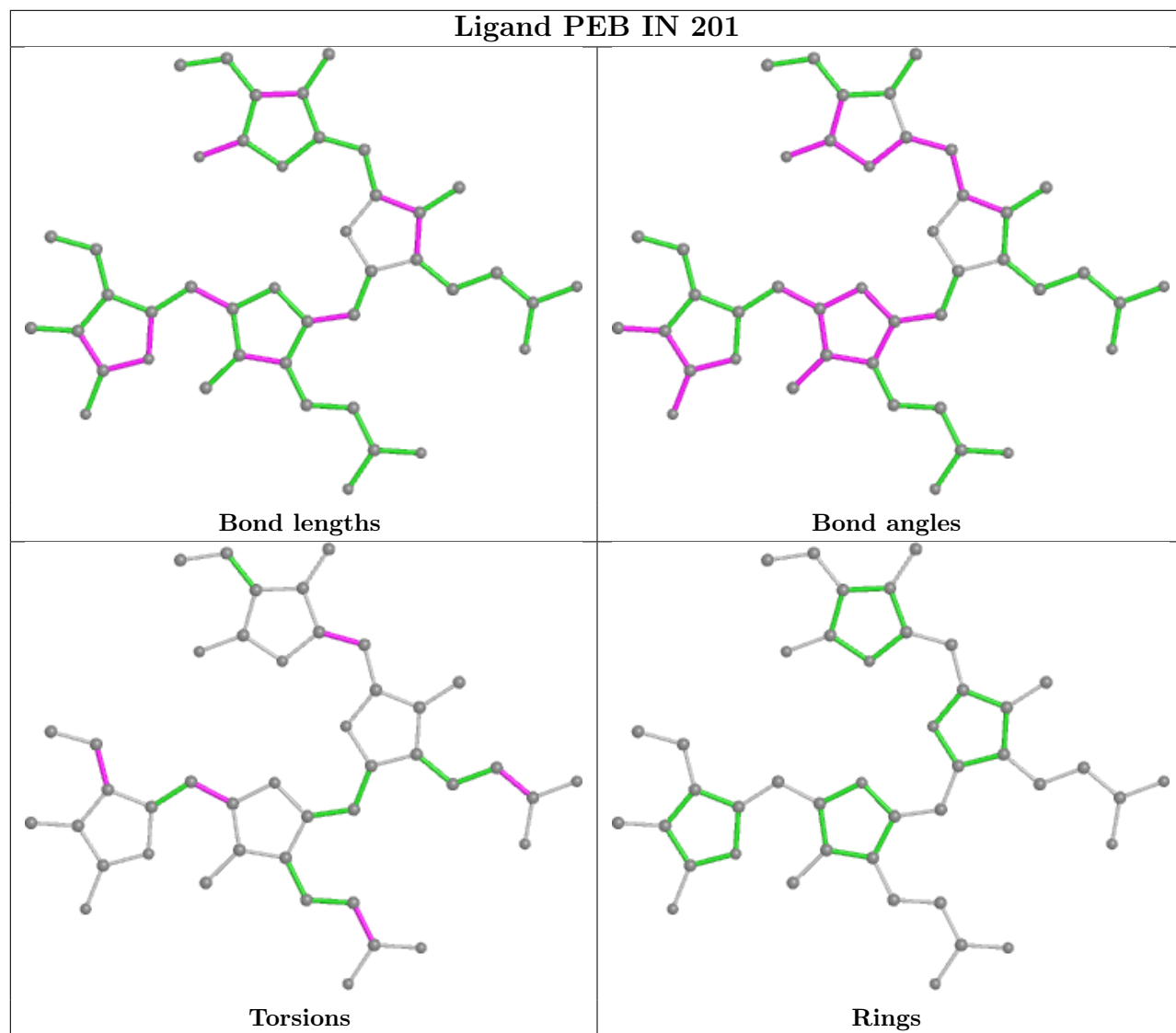


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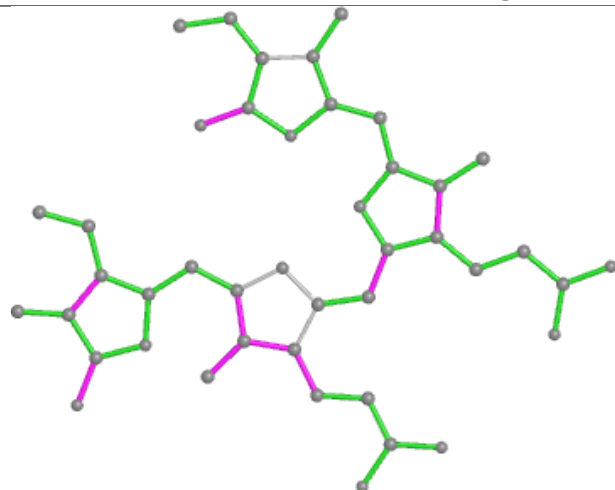


Rings

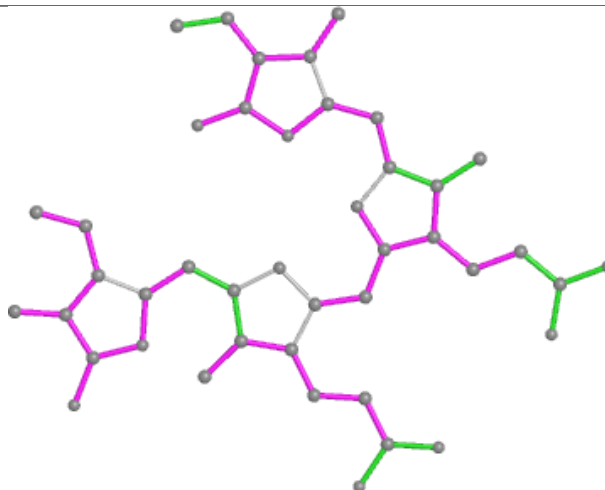




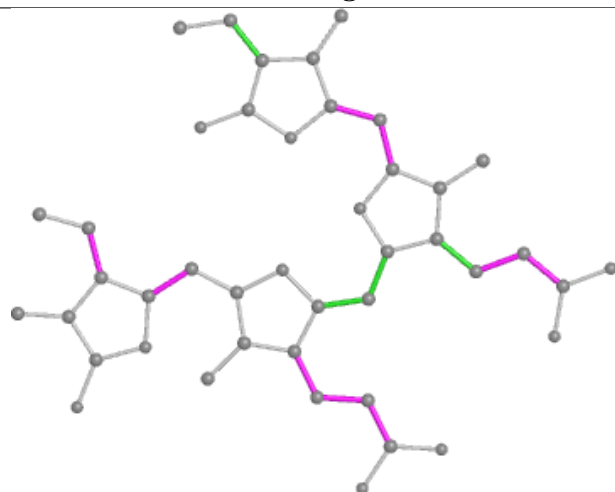
Ligand PUB MG 402



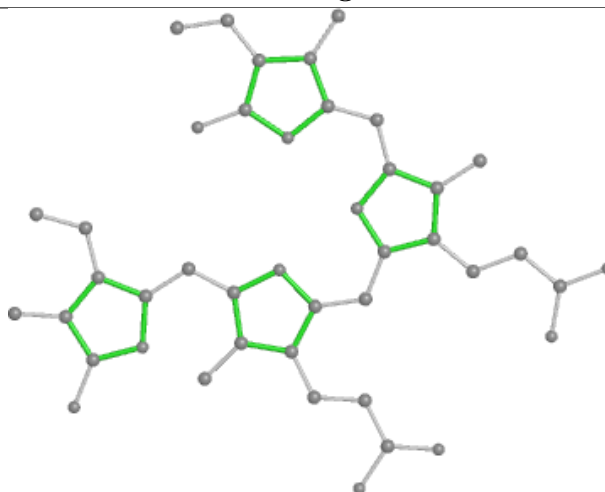
Bond lengths



Bond angles

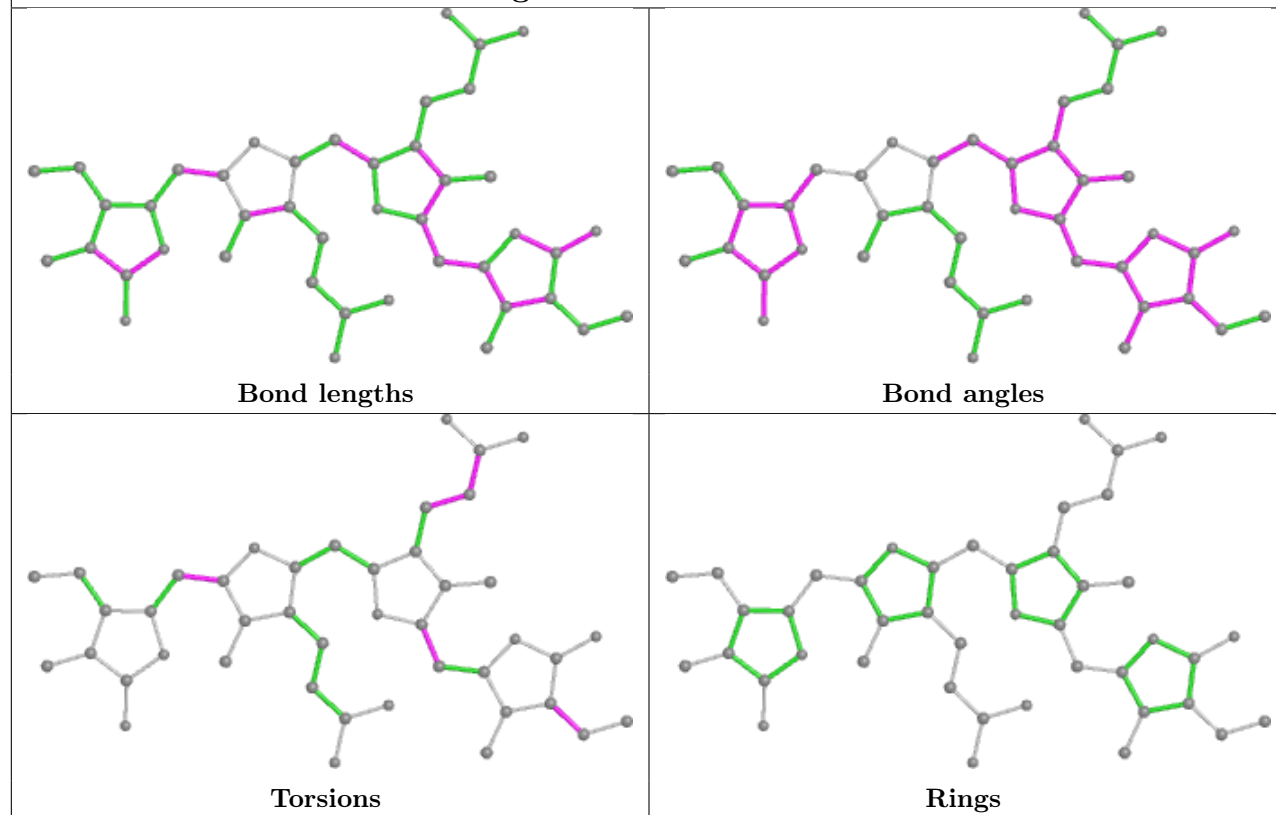


Torsions

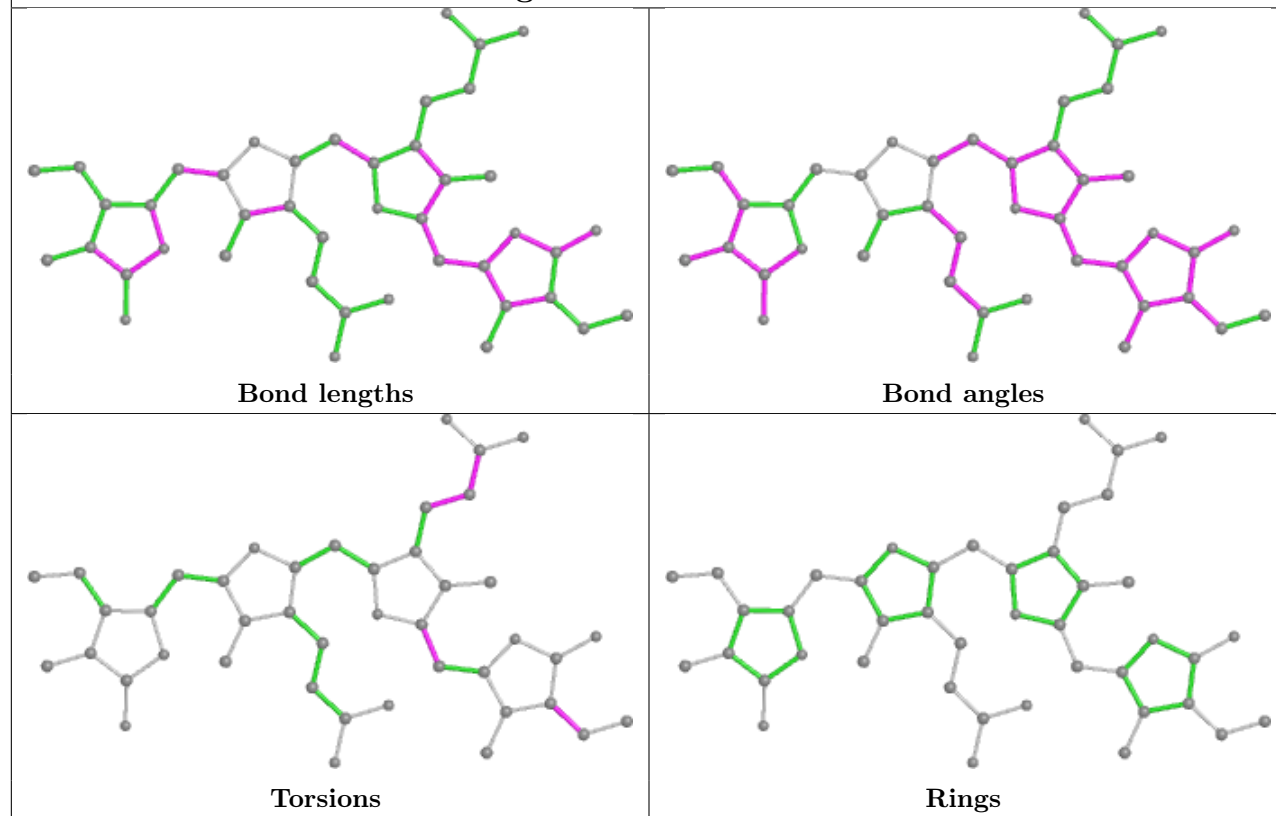


Rings

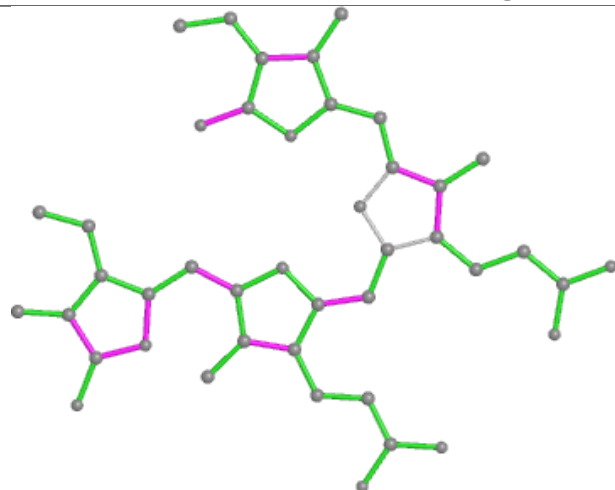
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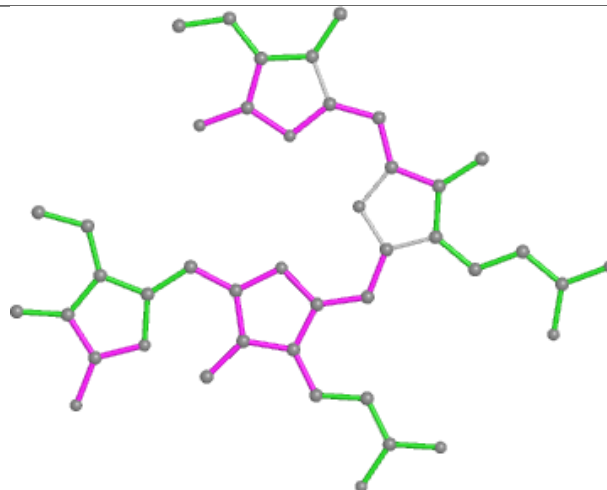
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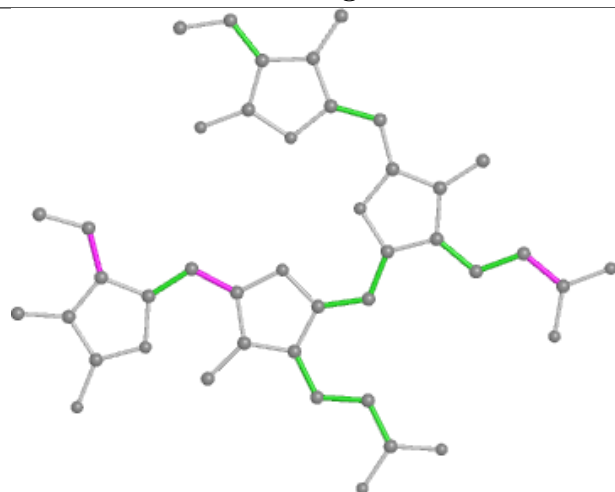
Ligand PEB KM 203



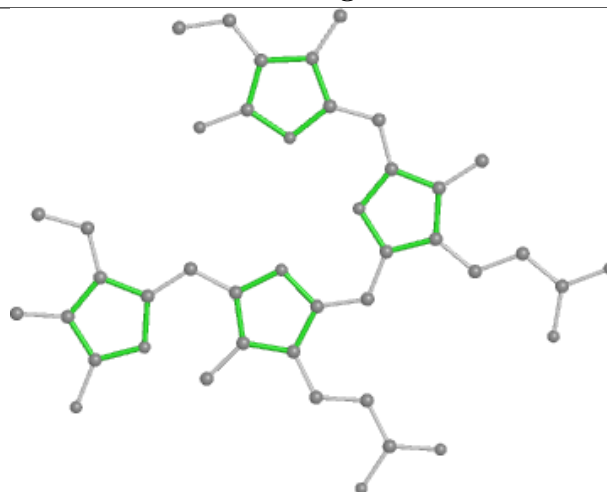
Bond lengths



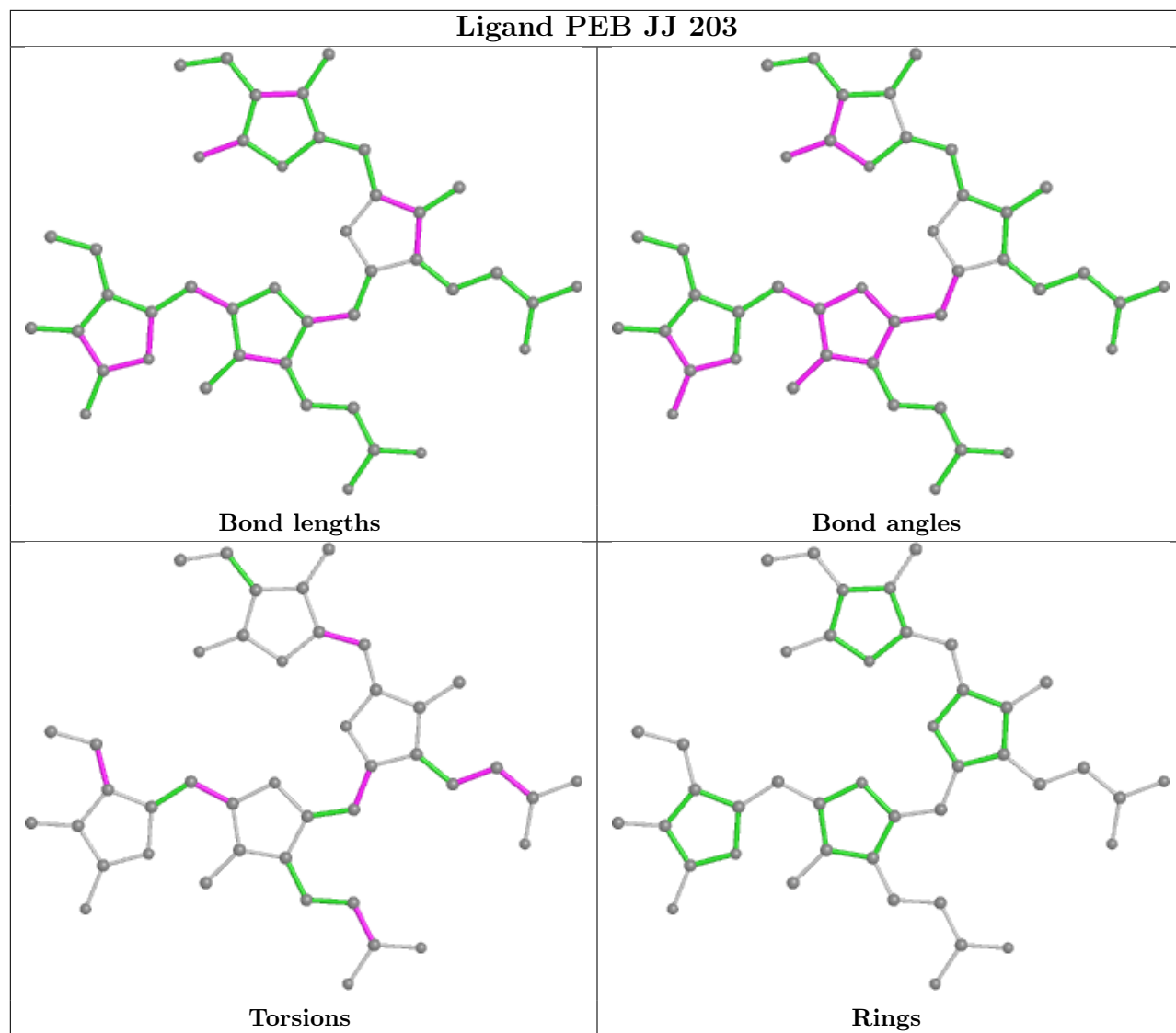
Bond angles

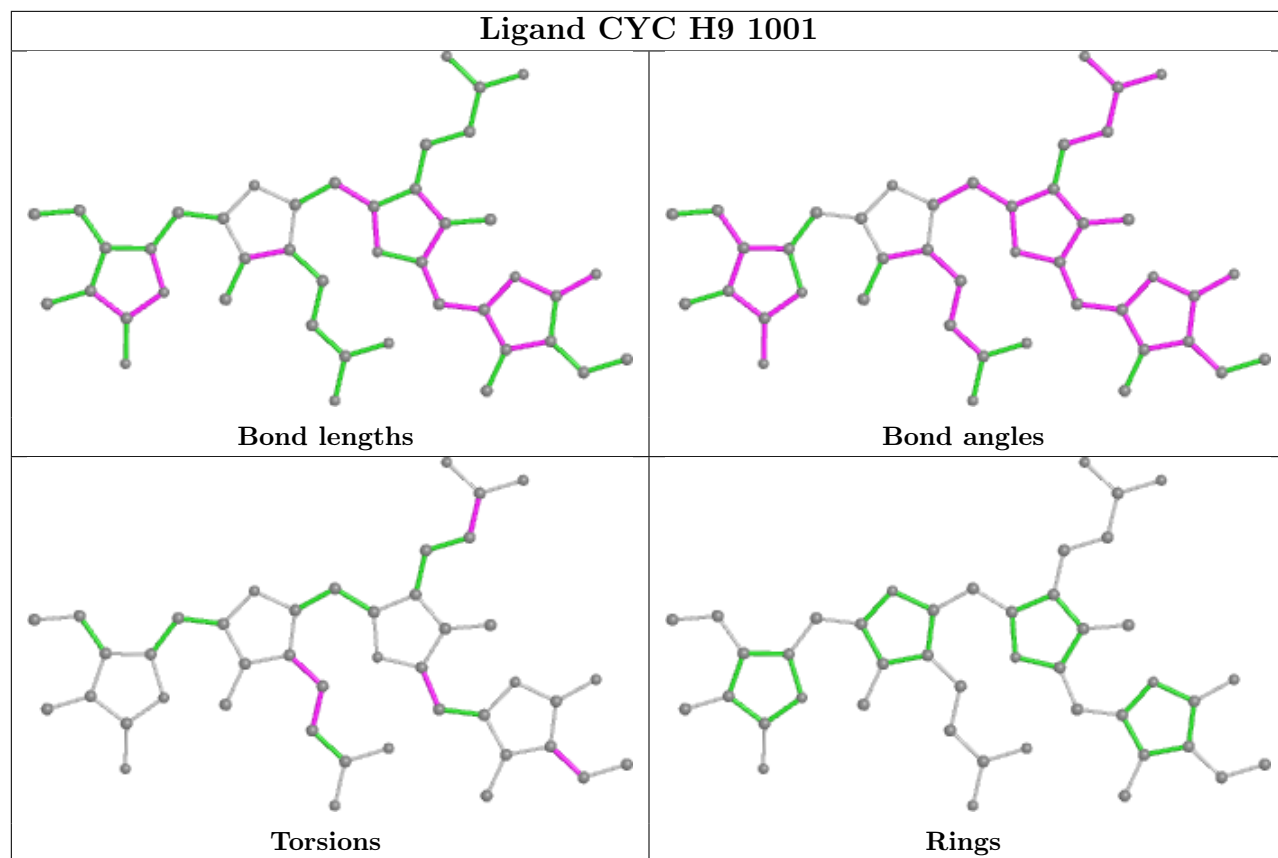


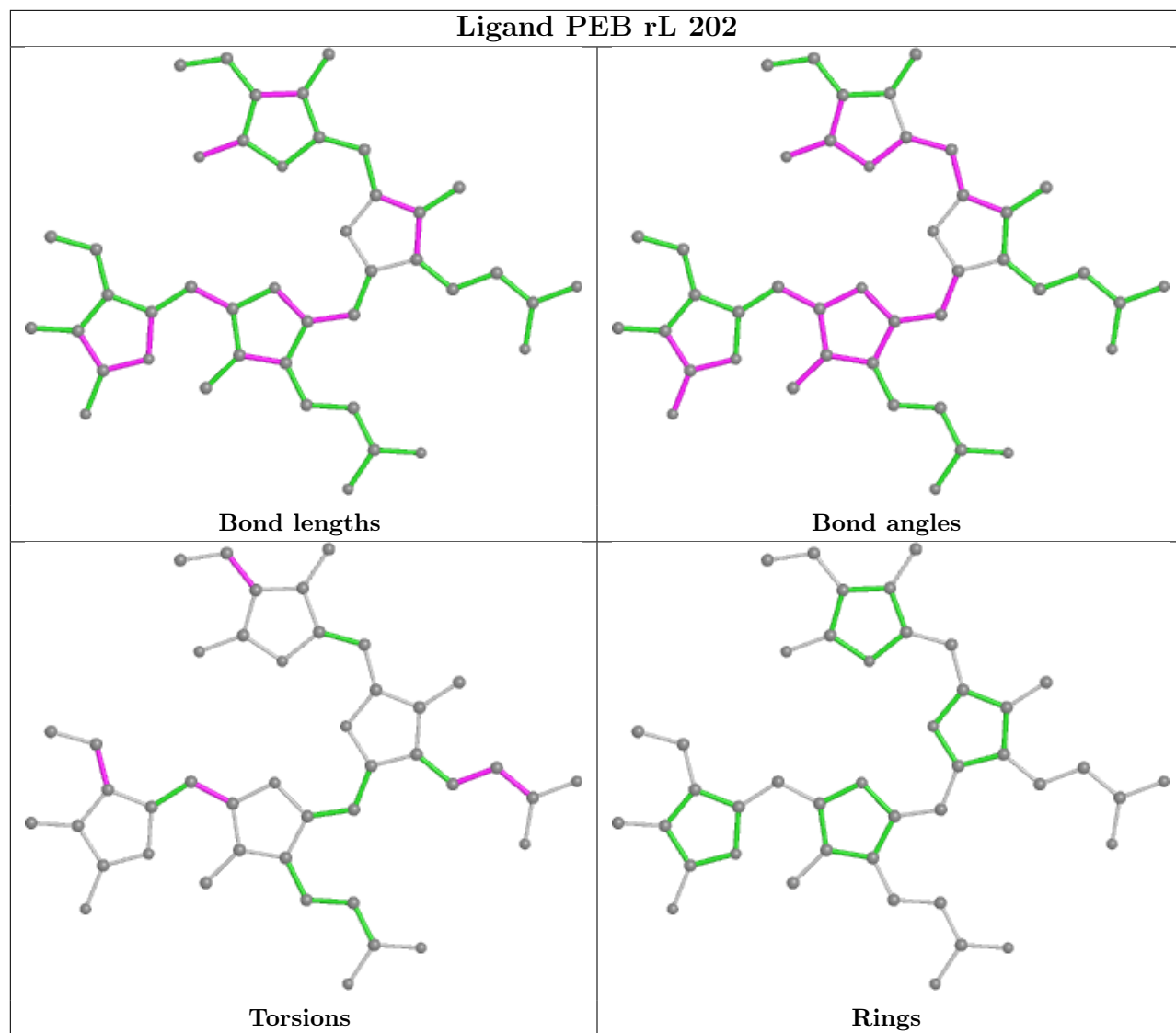
Torsions

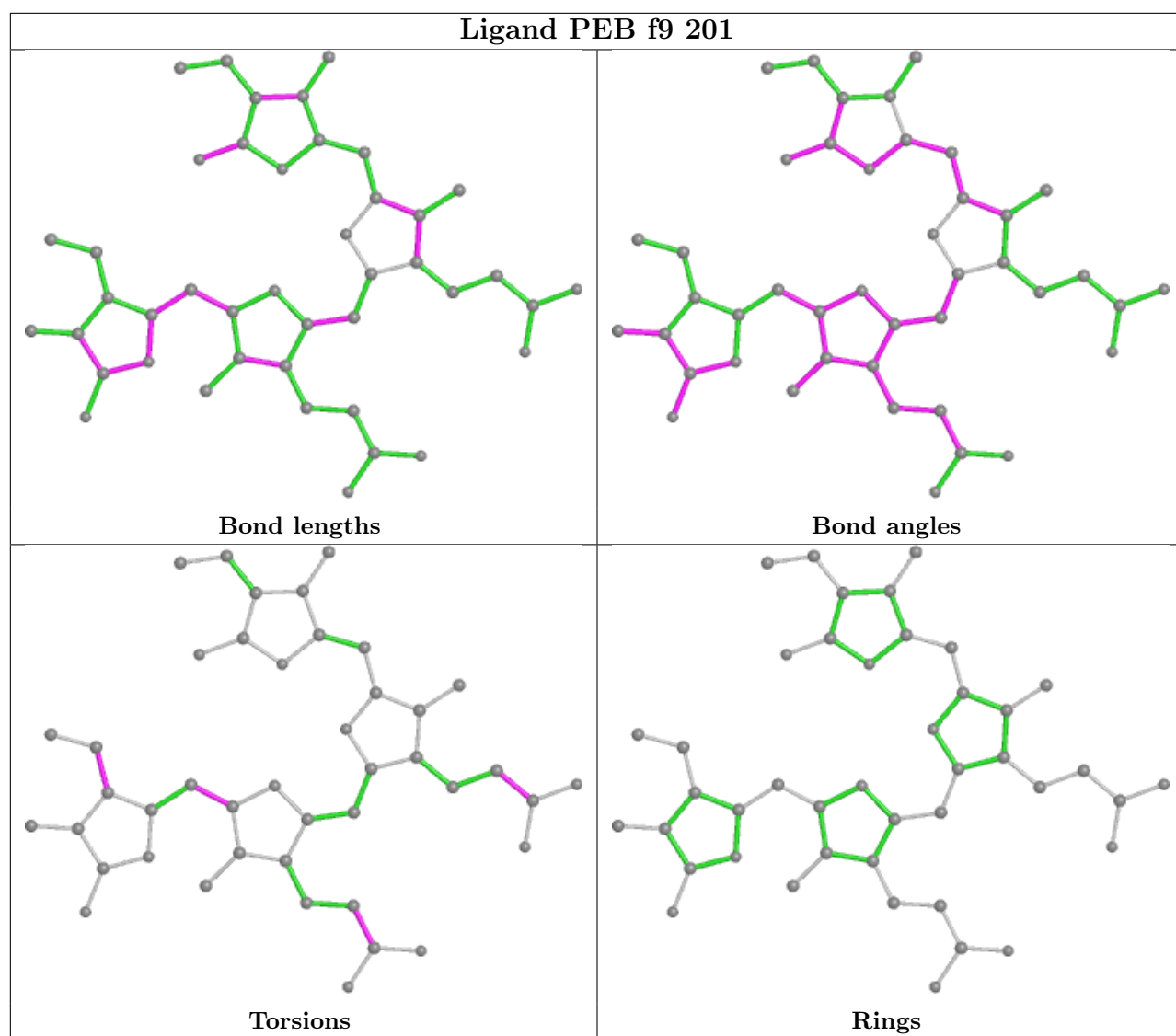


Rings

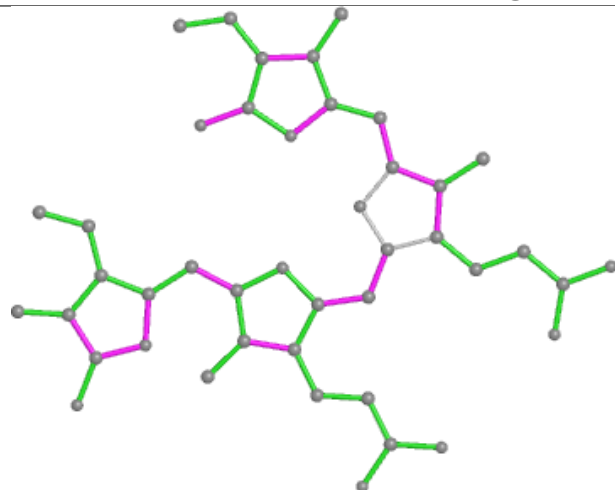




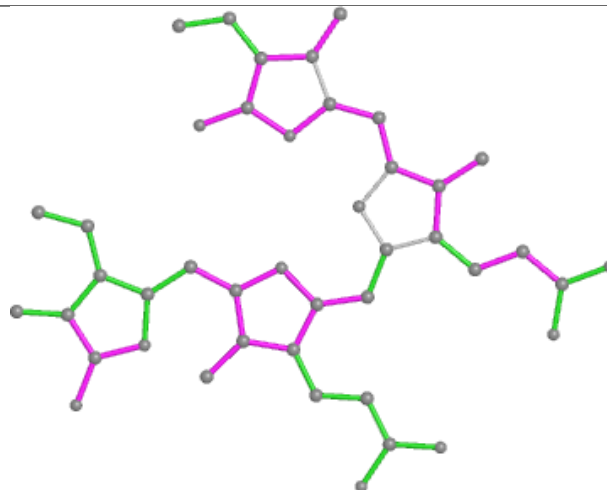




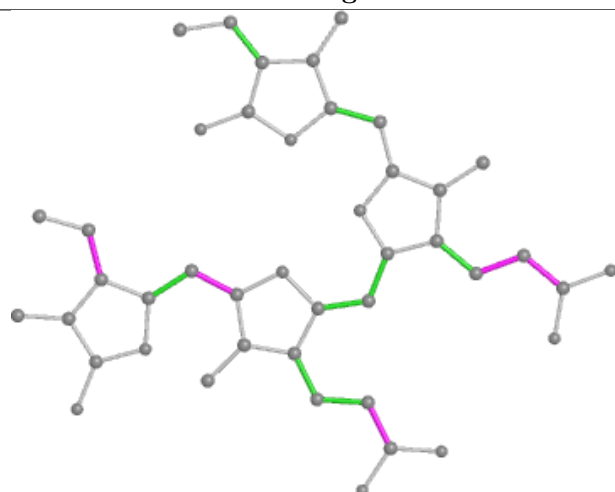
Ligand PEB H3 202



Bond lengths



Bond angles

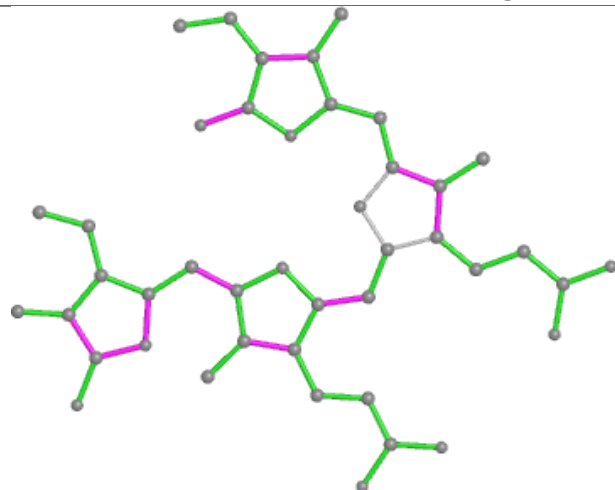


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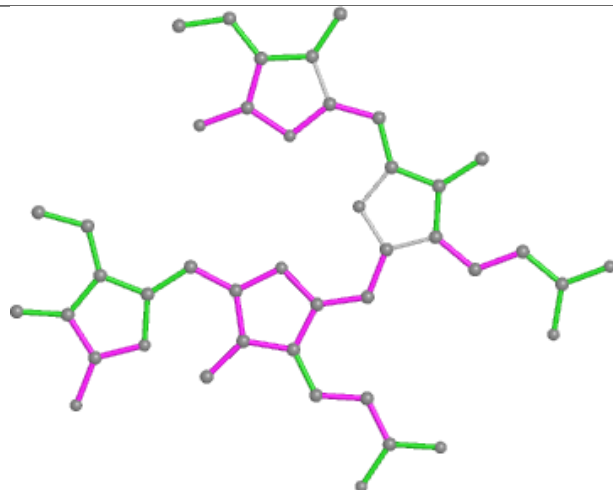


Rings

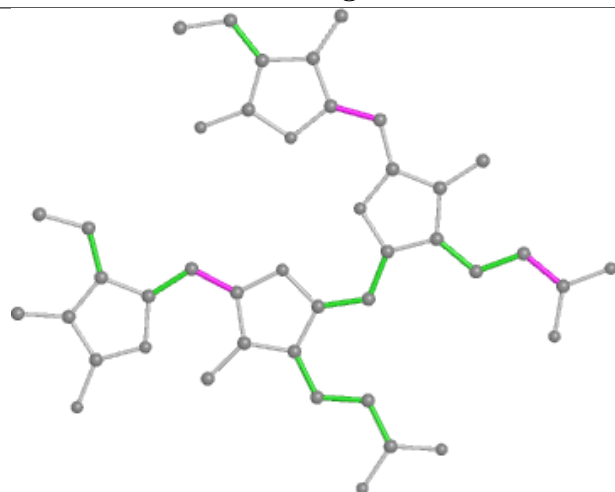
Ligand PEB VM 201



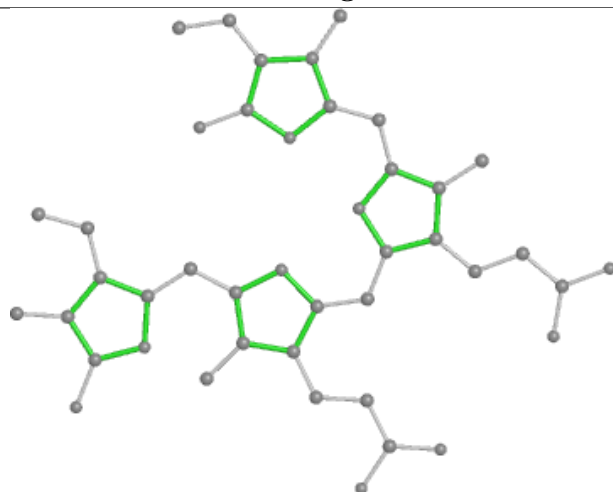
Bond lengths



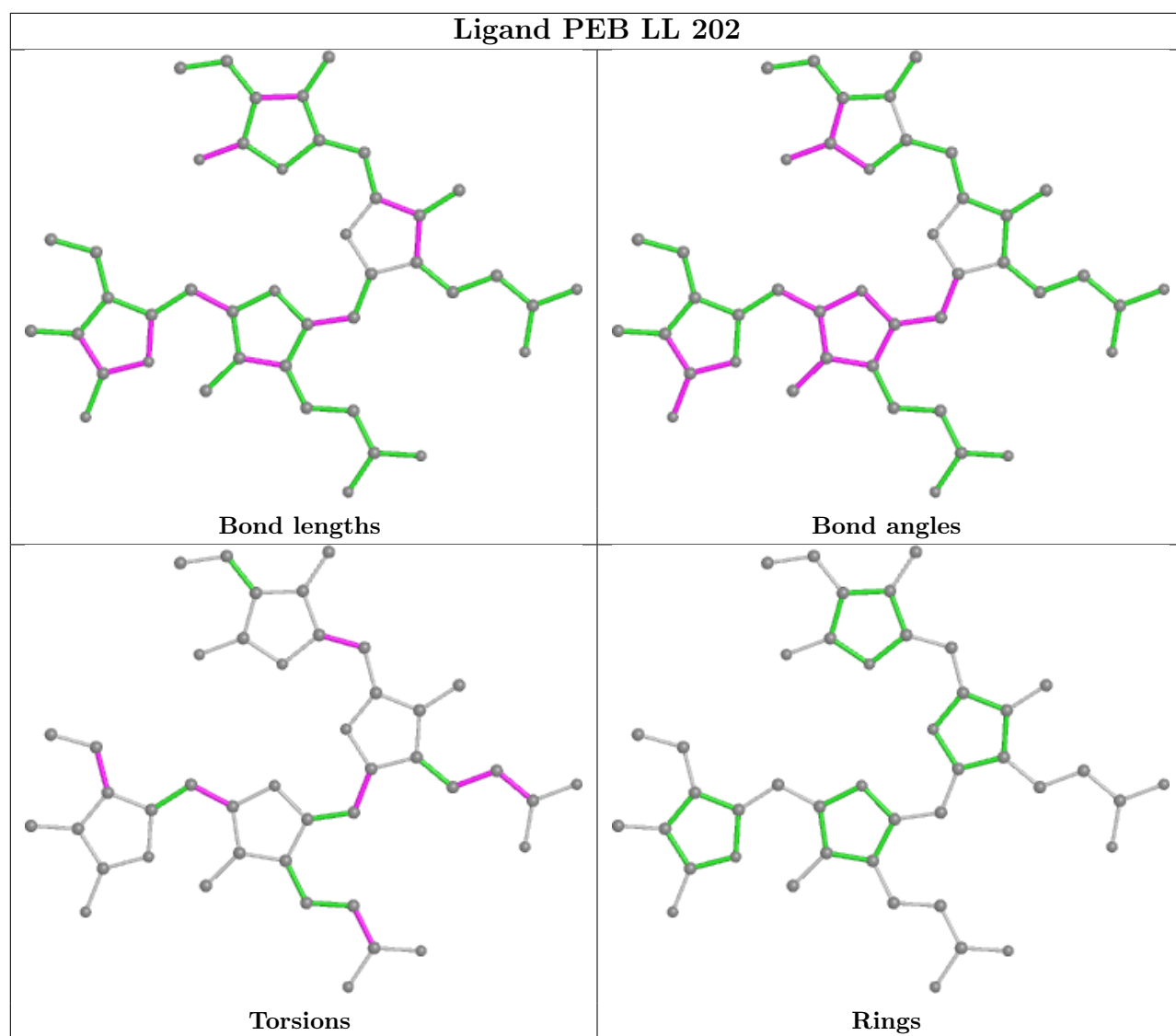
Bond angles



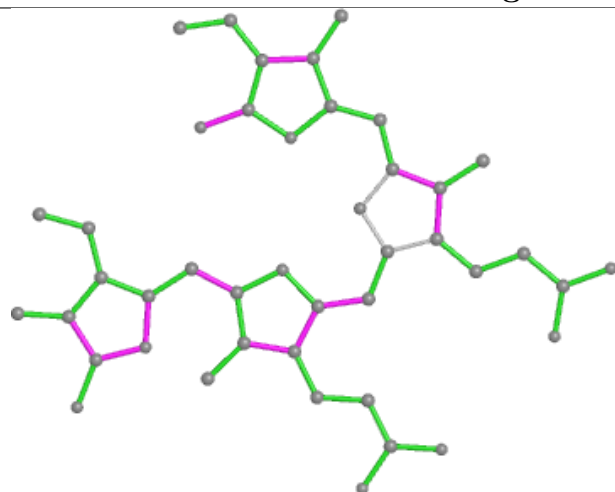
Torsions



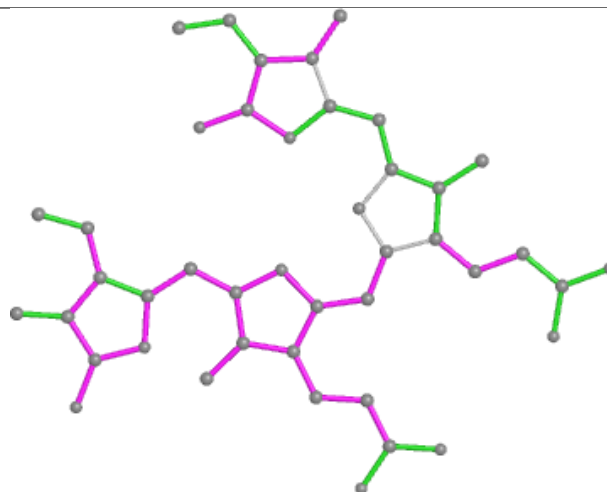
Rings



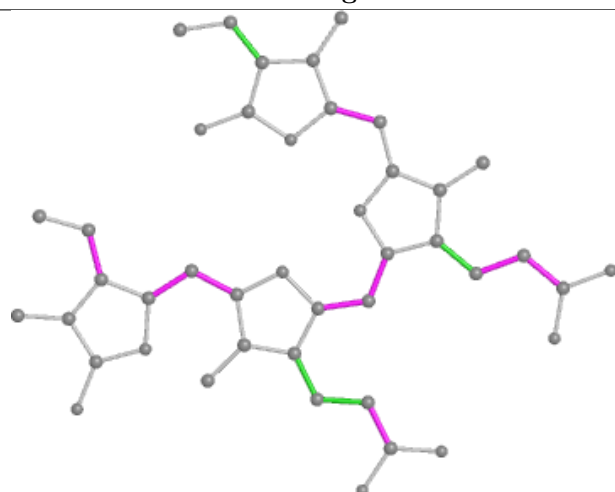
Ligand PEB AA 202



Bond lengths



Bond angles

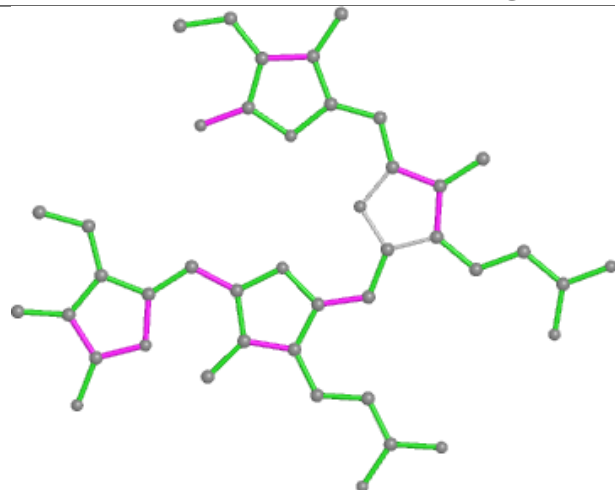


Torsions

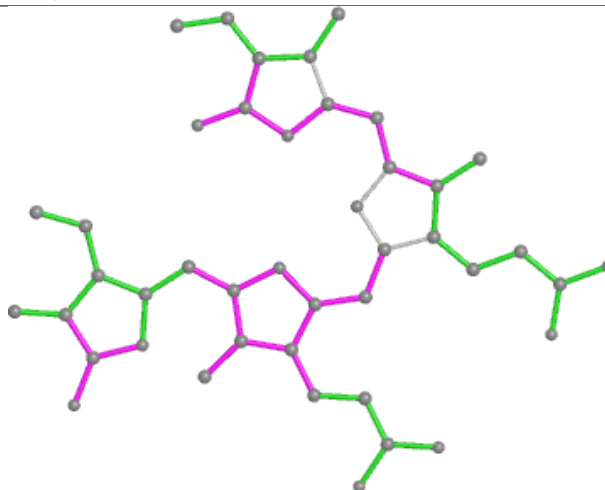


Rings

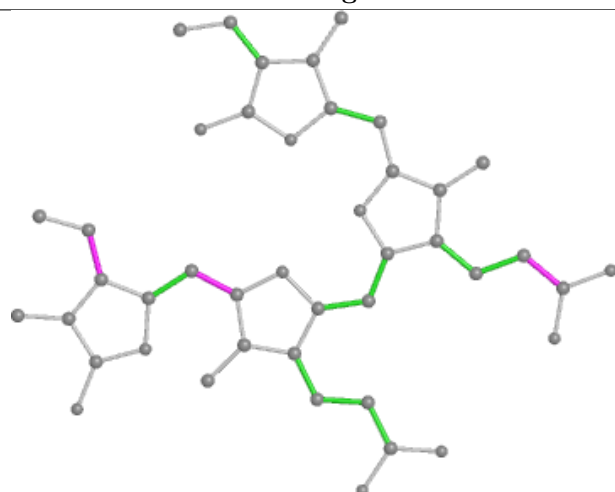
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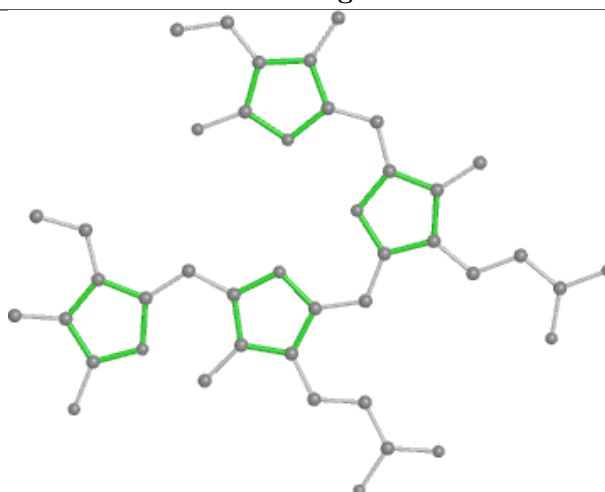
Bond lengths



Bond angles

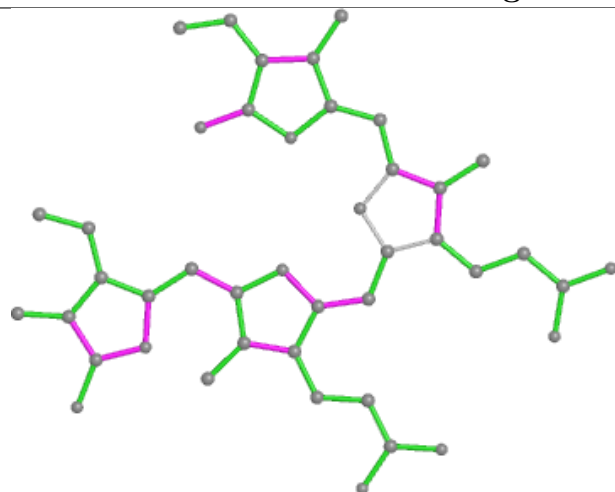


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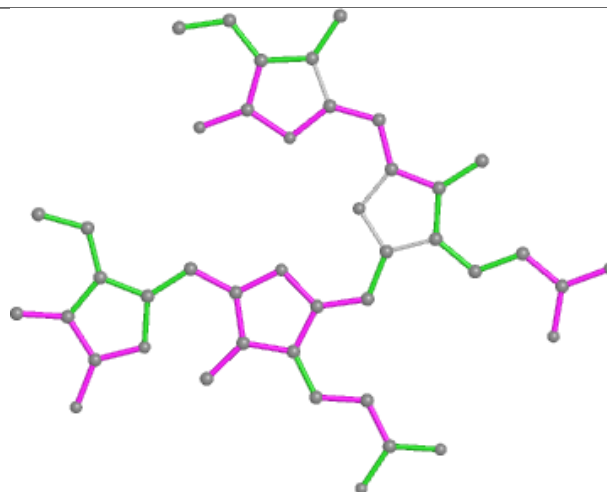


Rings

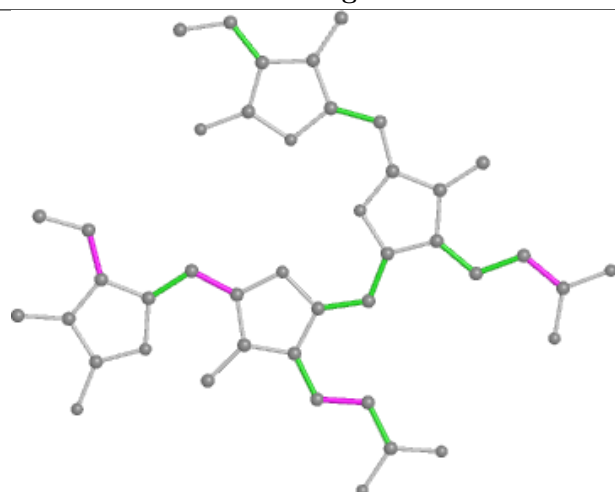
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Bond lengths



Bond angles

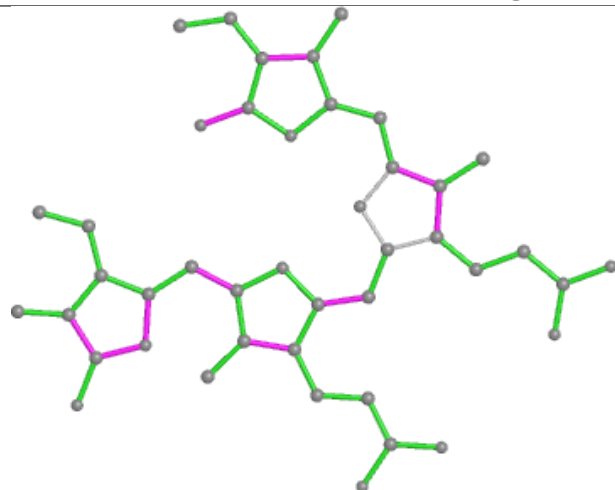


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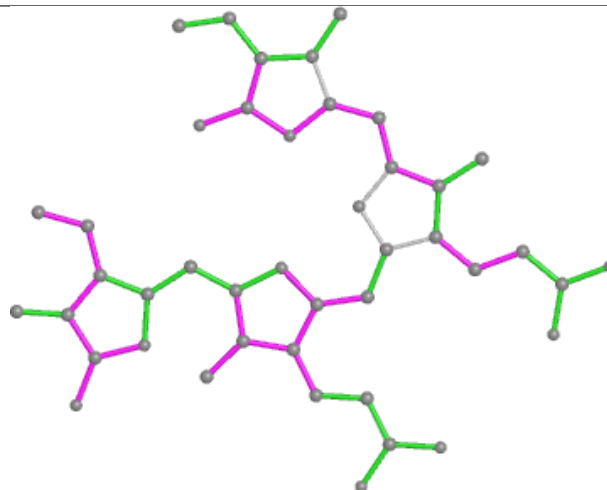


Rings

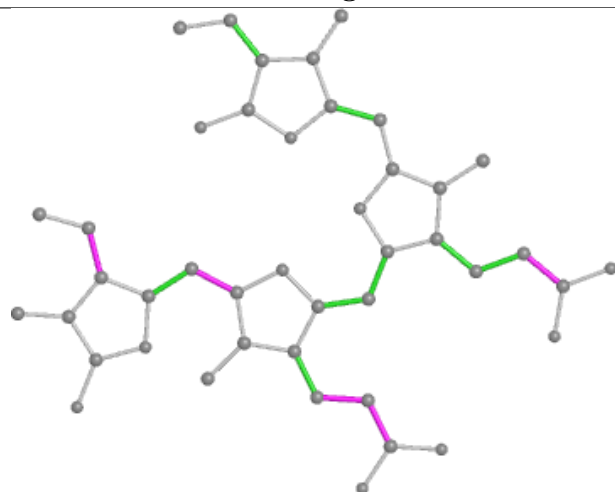
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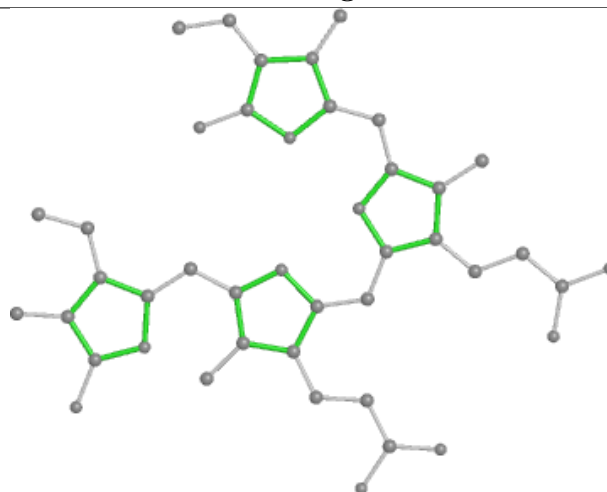
Bond lengths



Bond angles

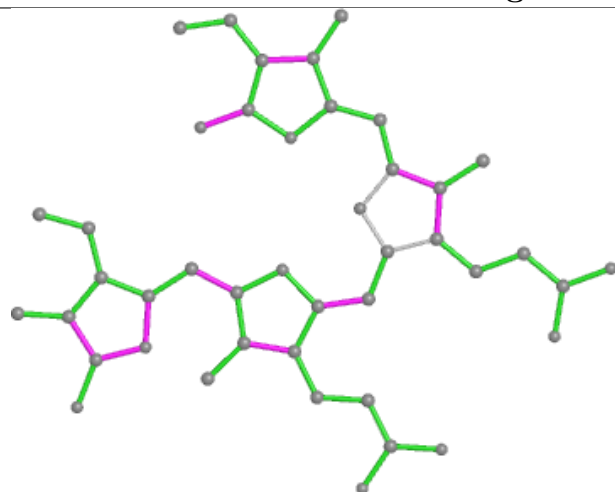


Torsions

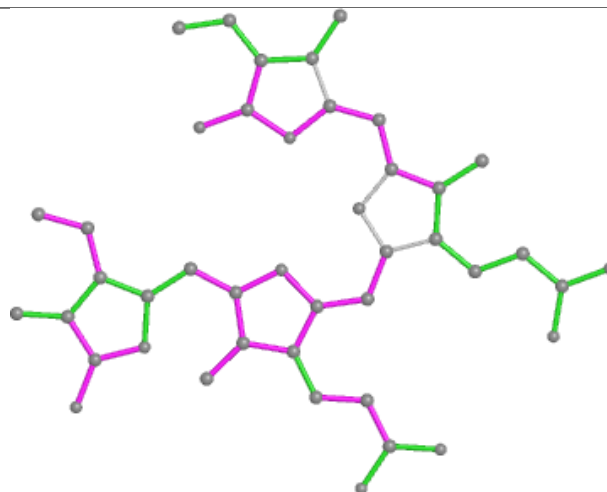


Rings

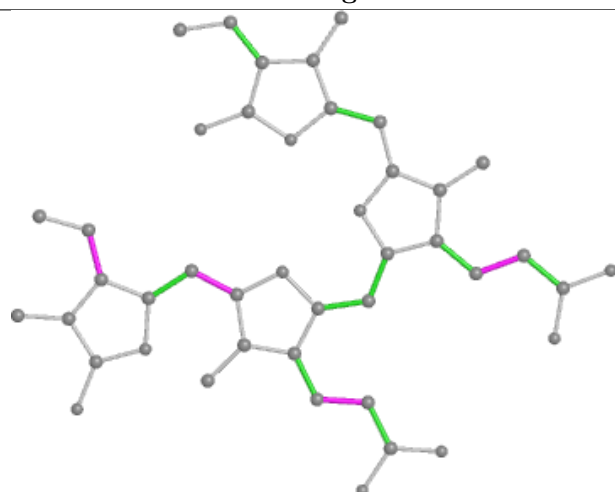
Ligand PEB JG 202



Bond lengths



Bond angles

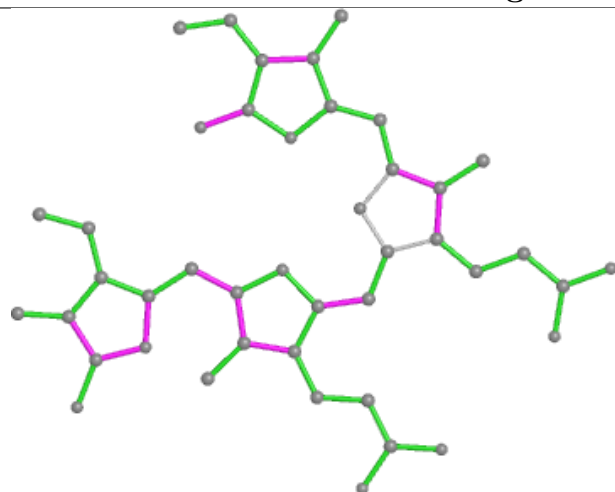


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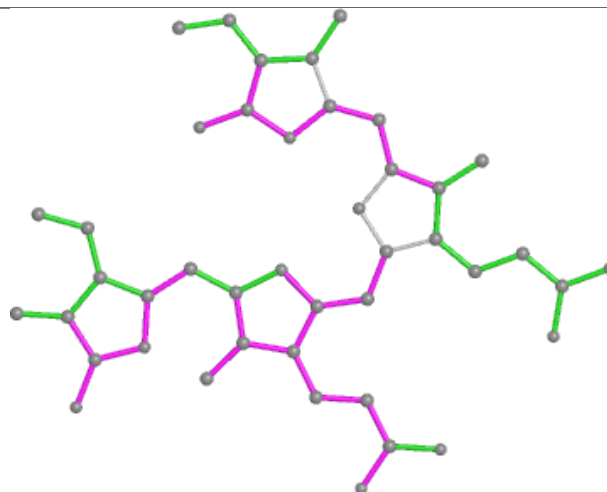


Rings

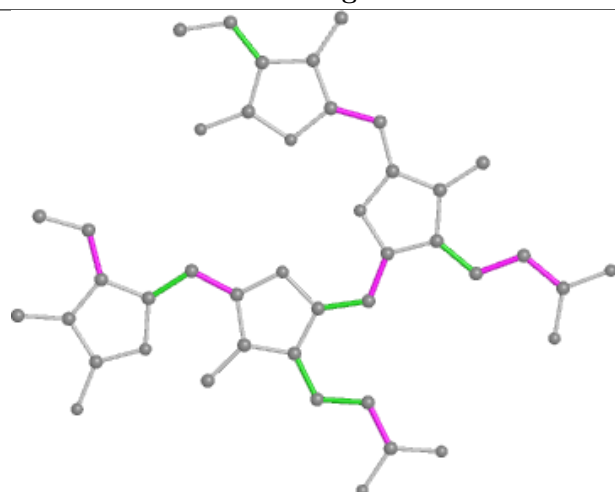
Ligand PEB LB 203



Bond lengths



Bond angles

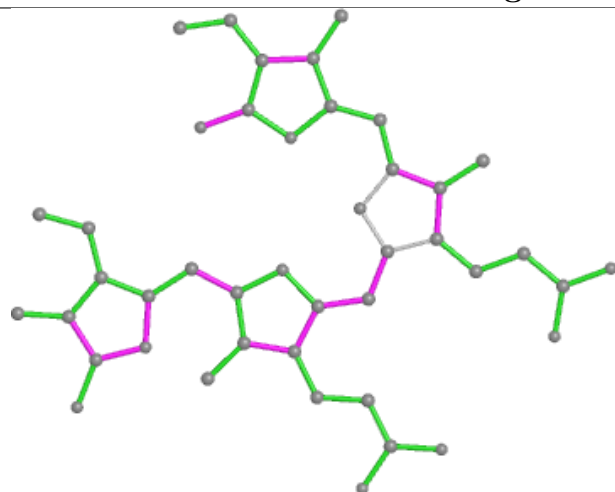


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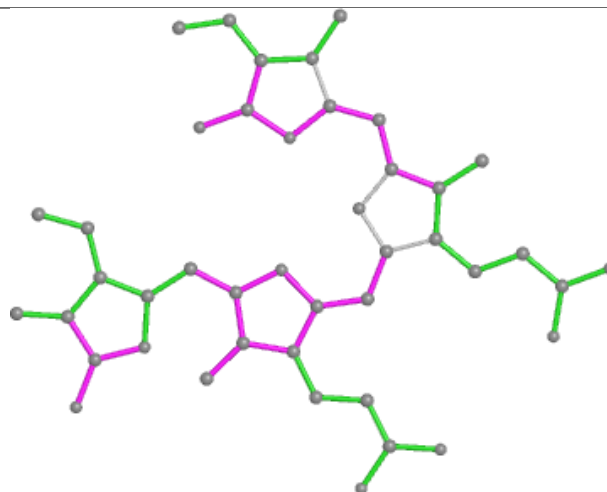


Rings

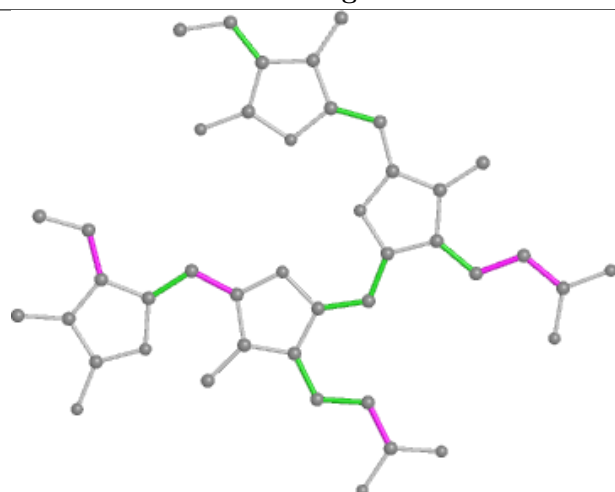
Ligand PEB EO 202



Bond lengths



Bond angles

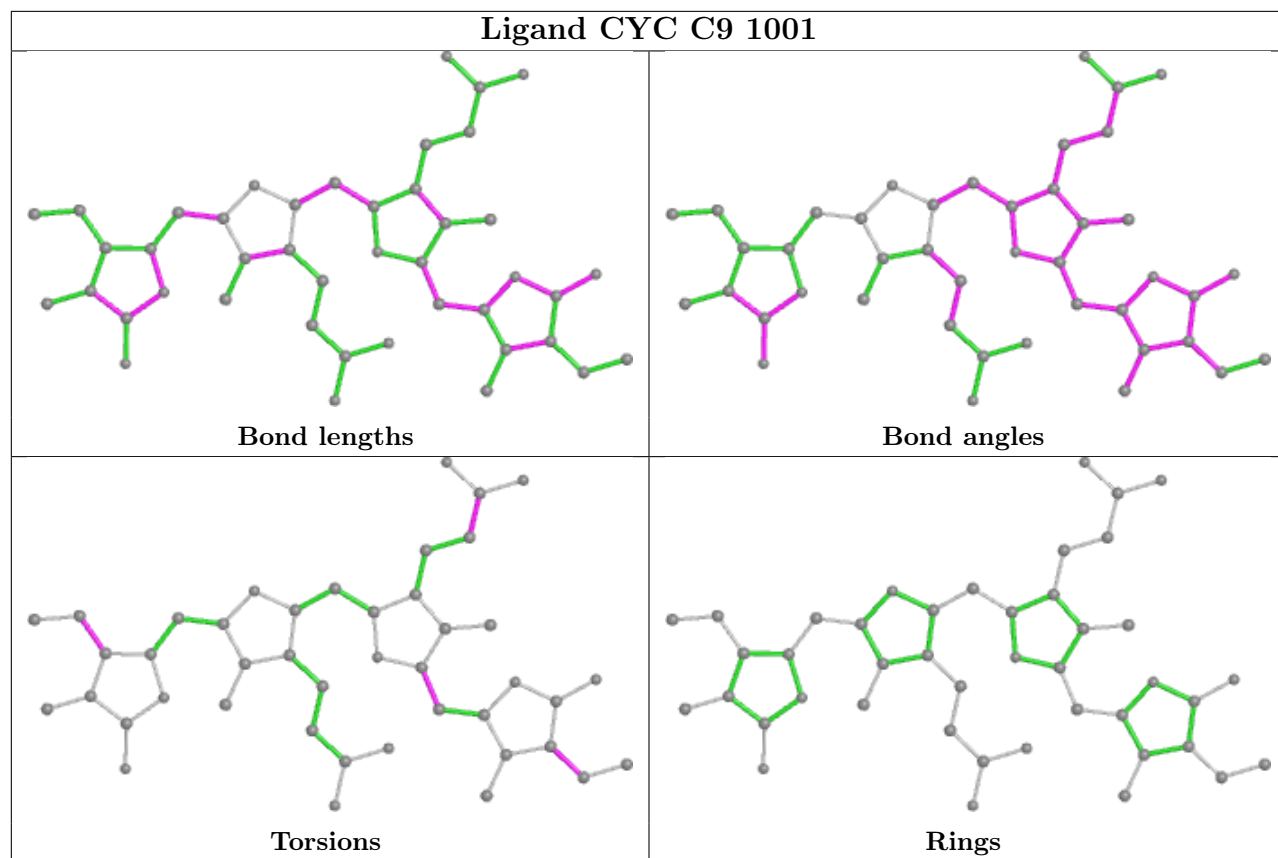


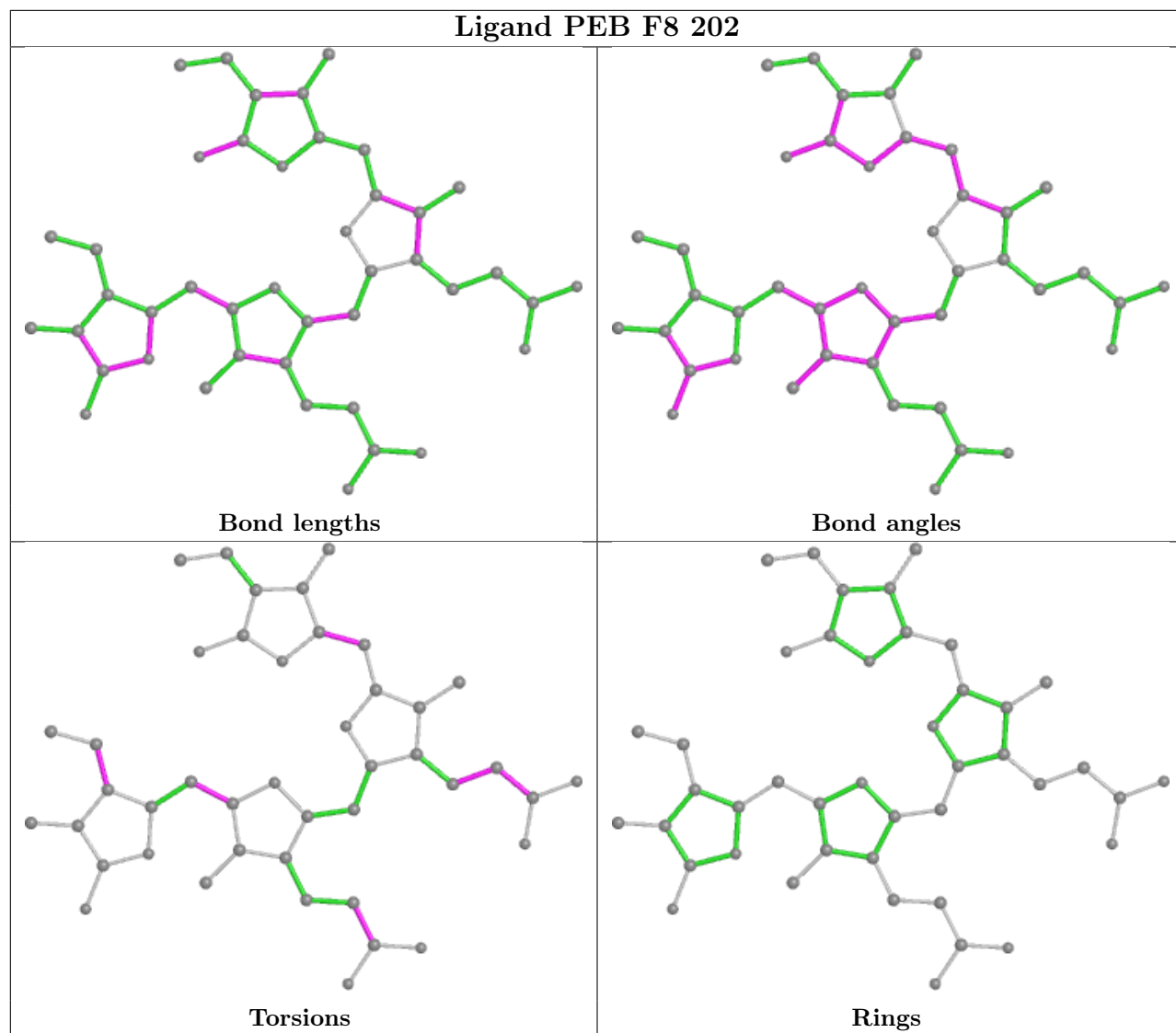
Torsions

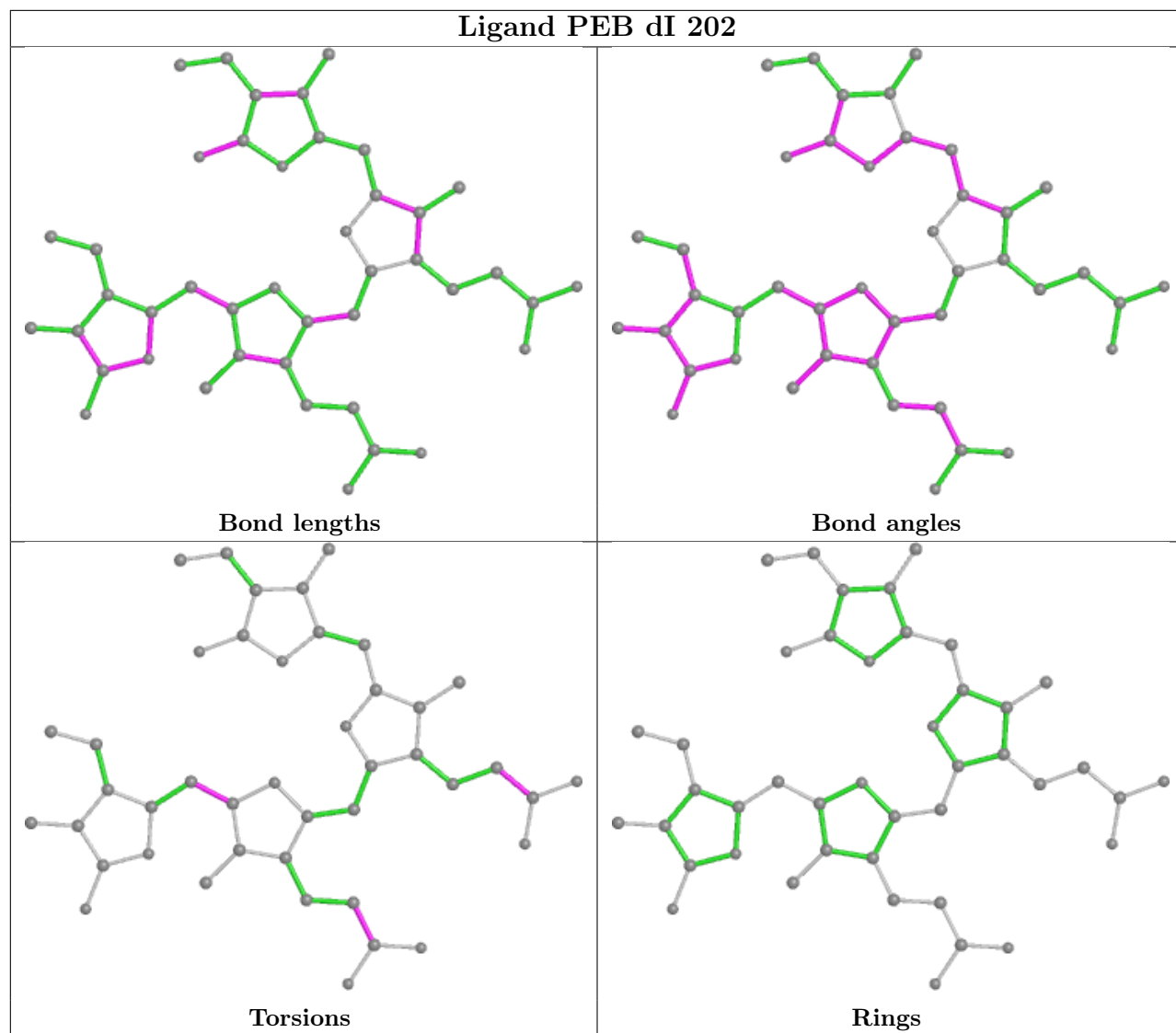


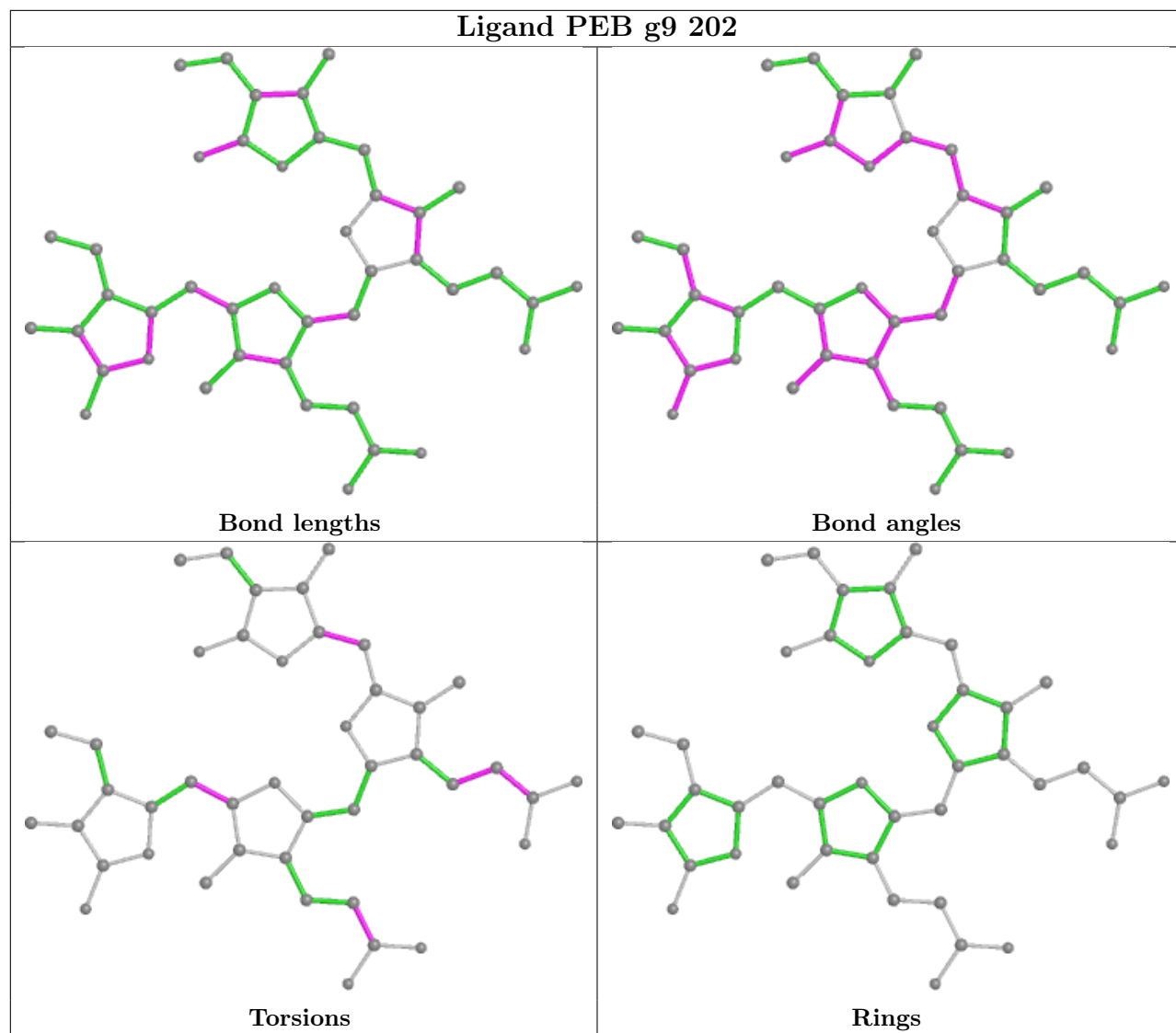
Rings

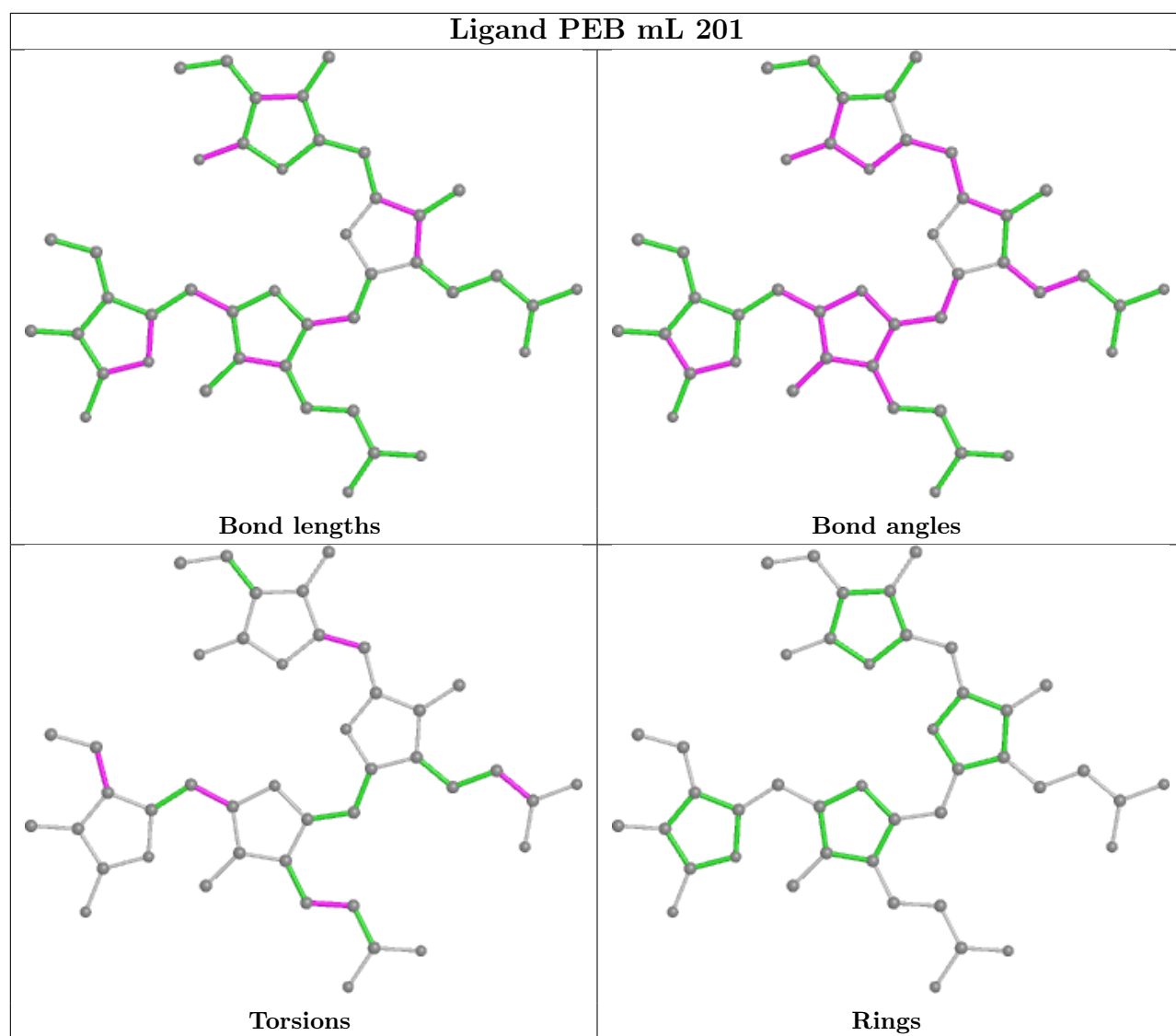
Ligand CYC C9 1001



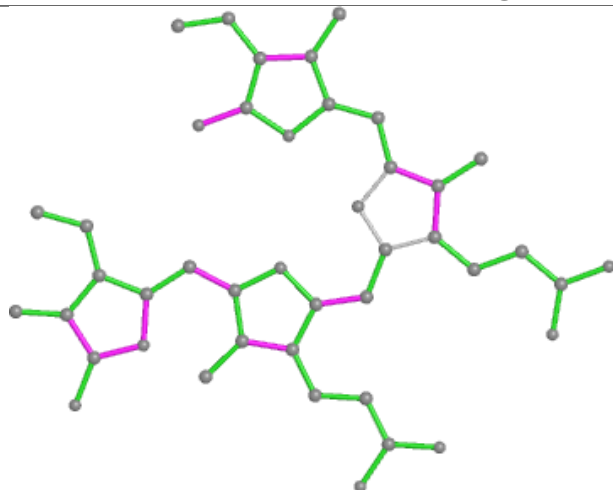




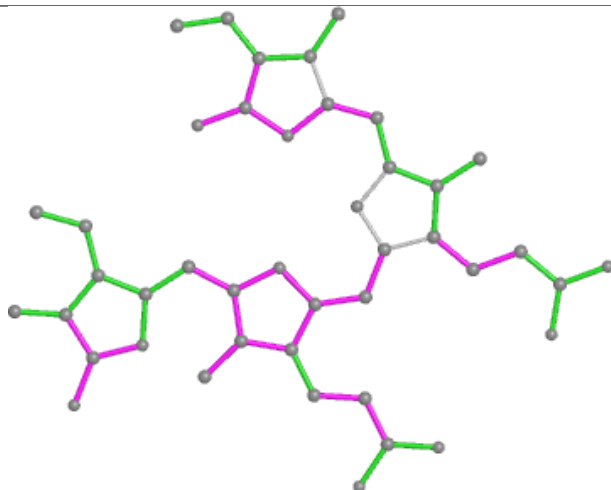




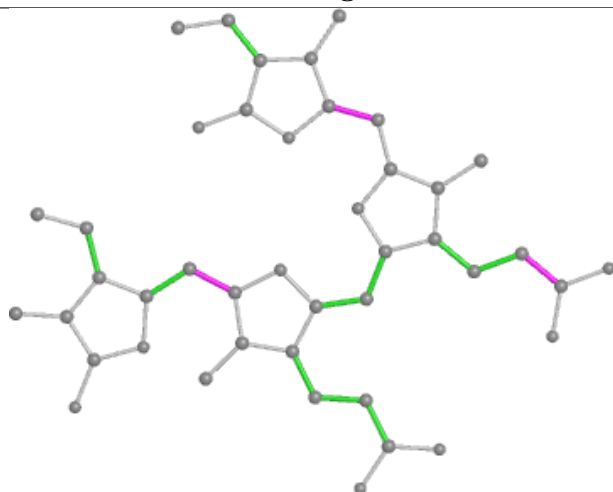
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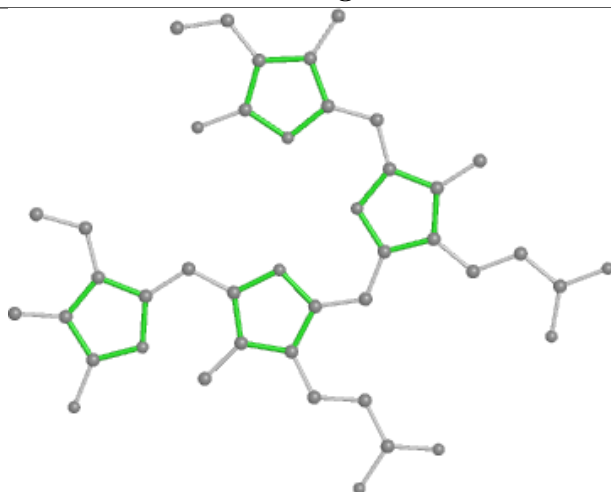
Bond lengths



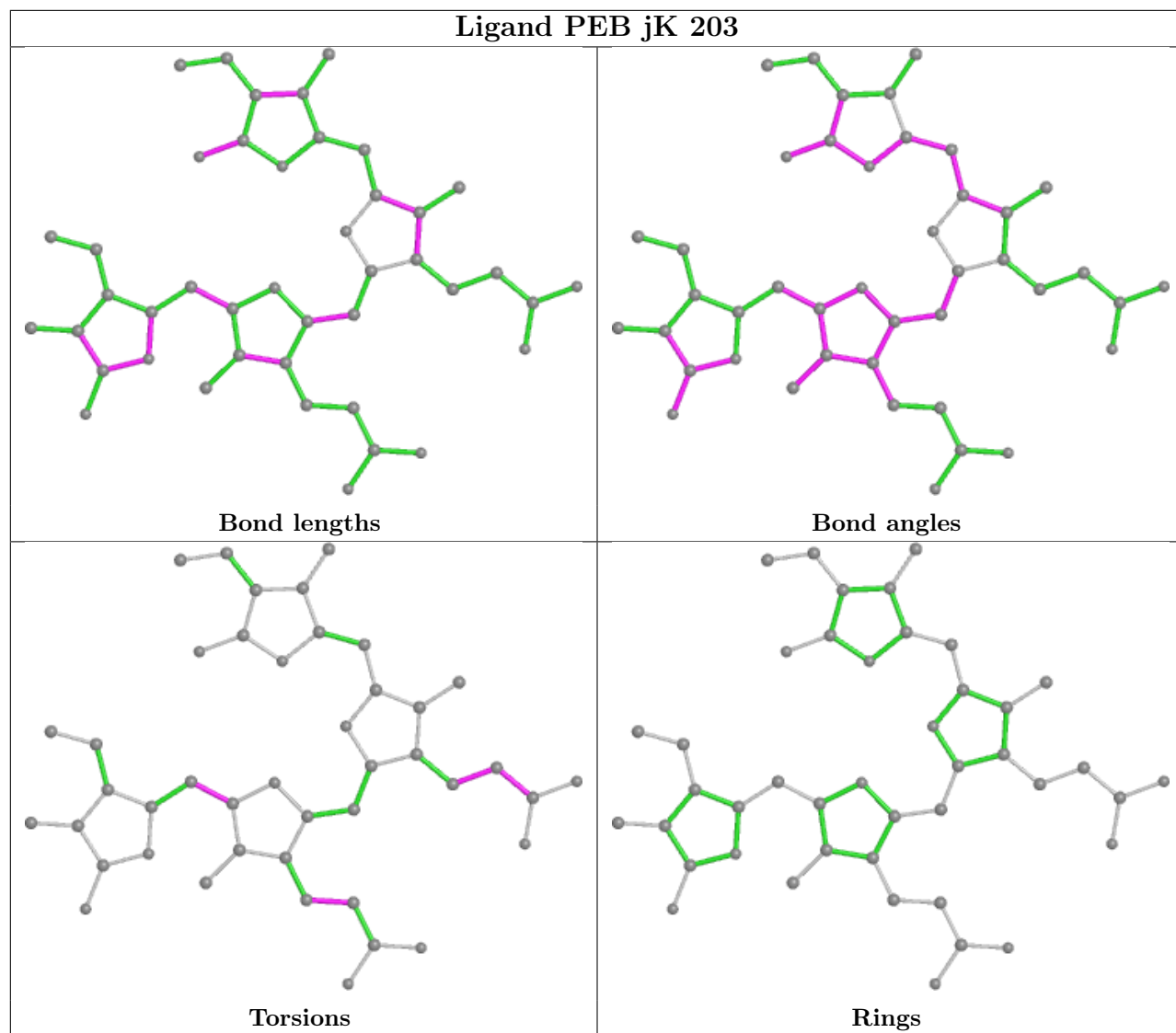
Bond angles

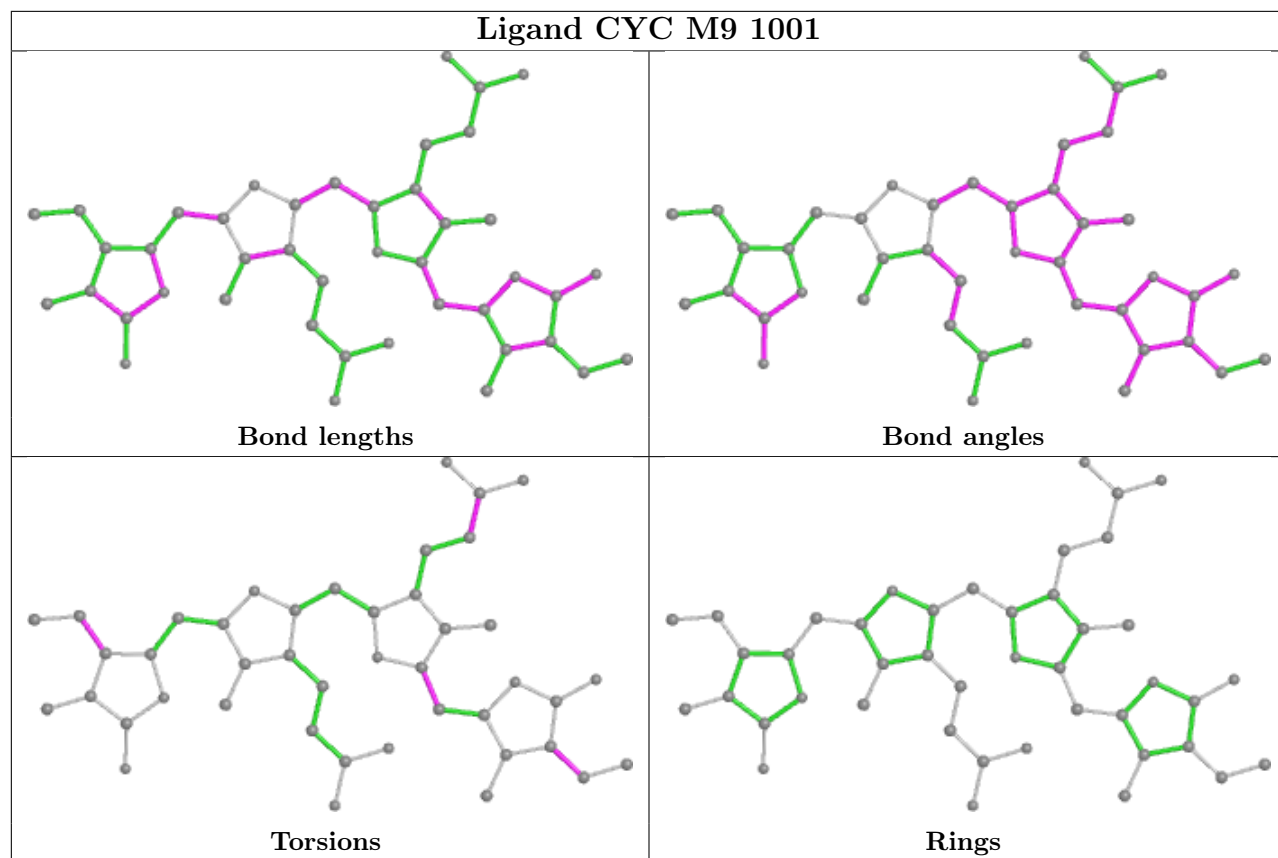


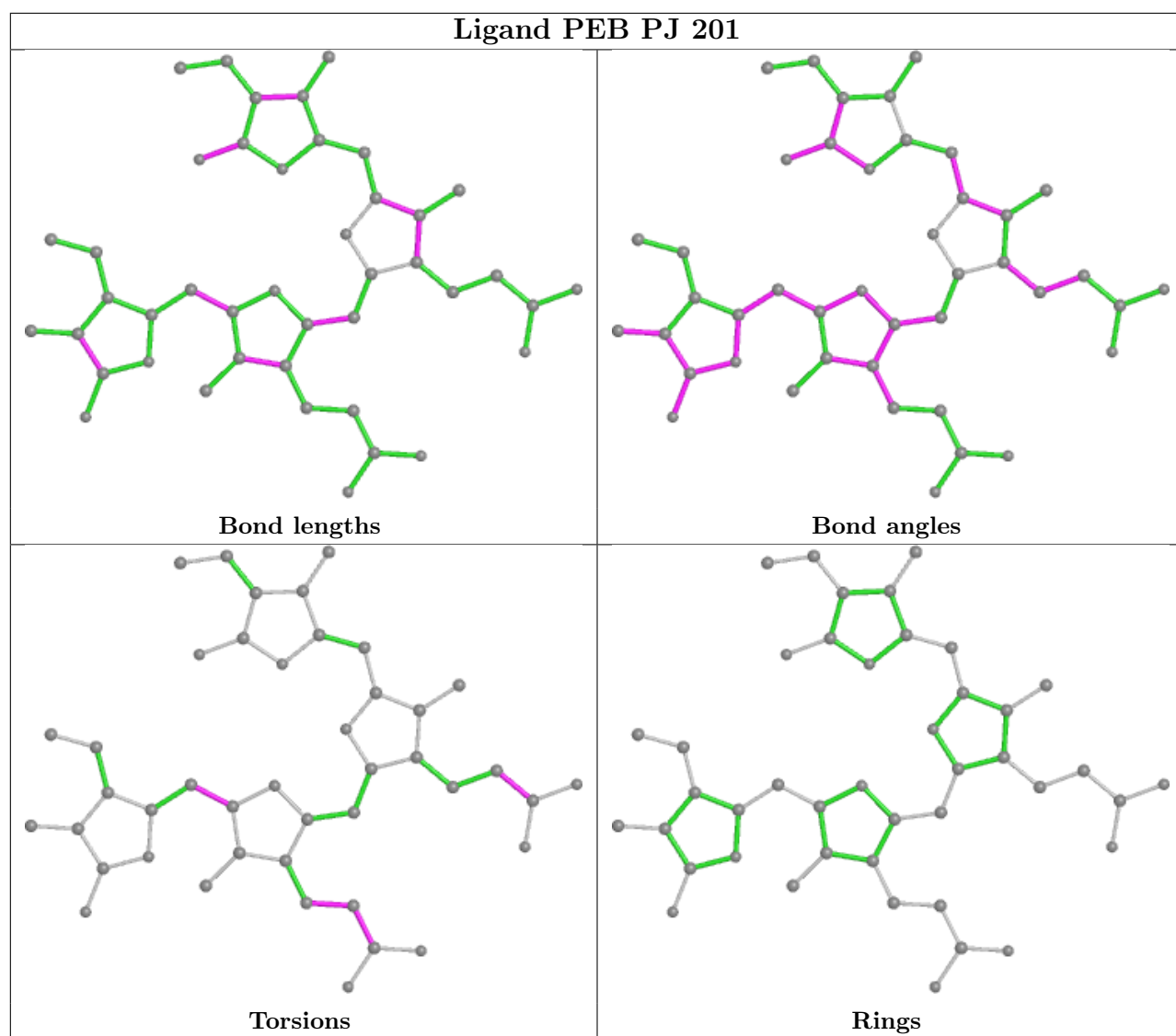
Torsions



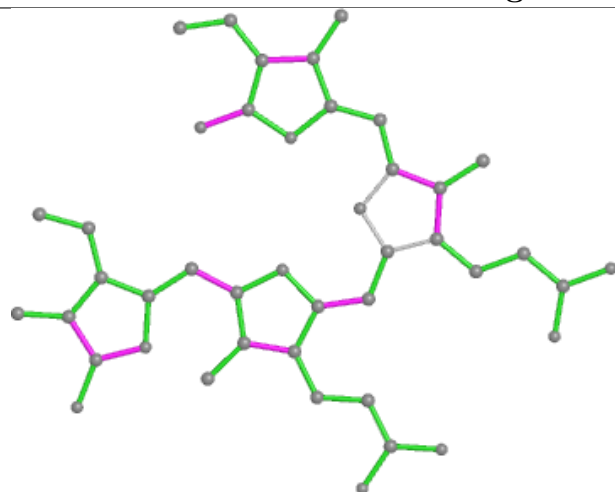
Rings



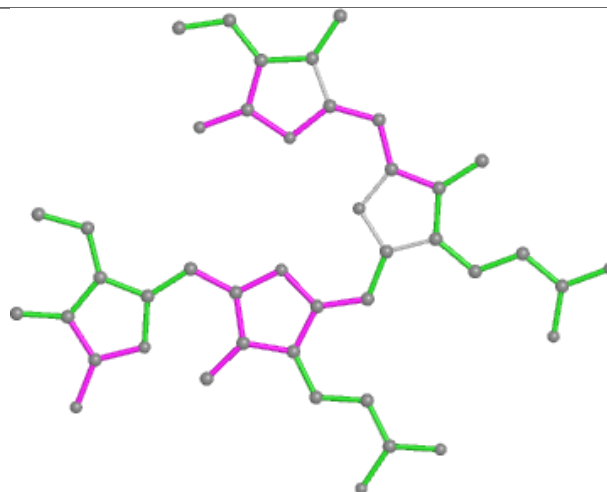




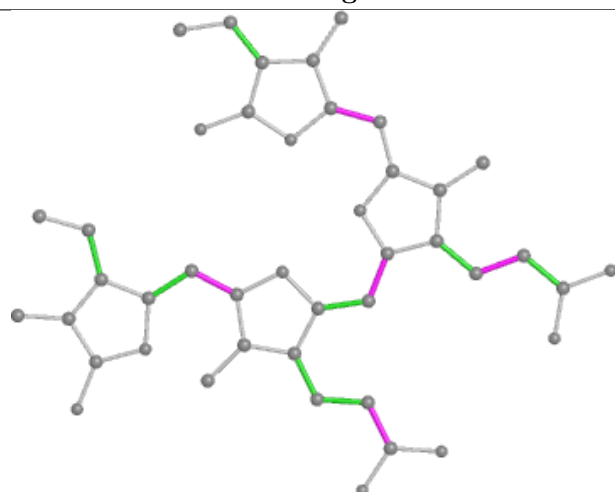
Ligand PEB LC 203



Bond lengths



Bond angles

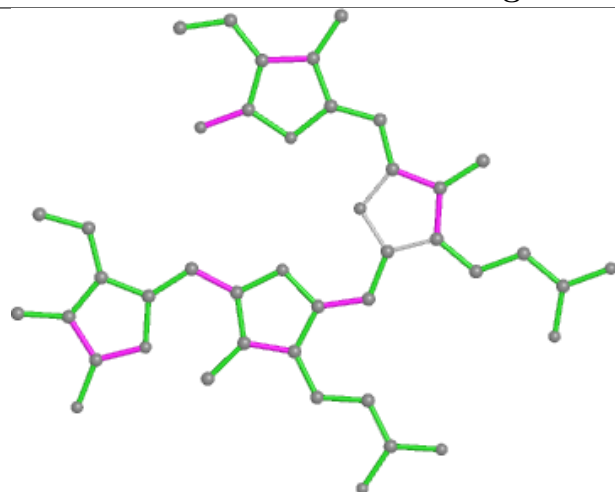


Torsions

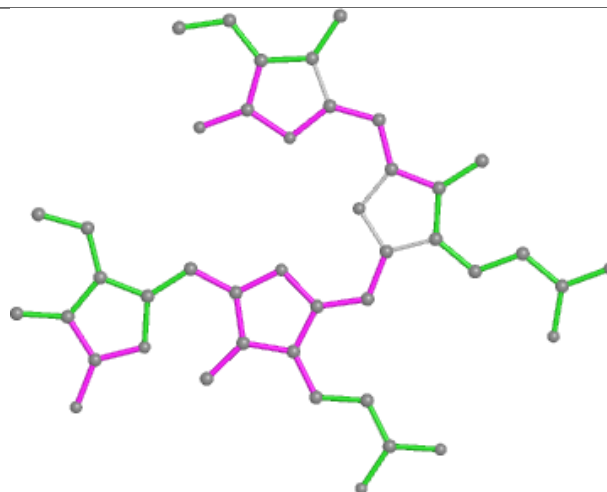


Rings

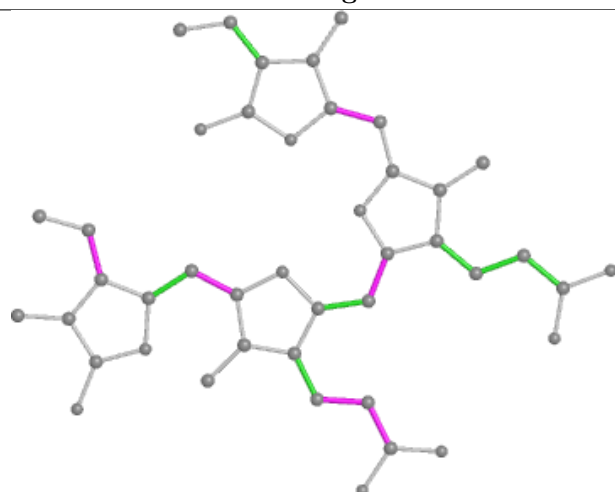
Ligand PEB DA 203



Bond lengths



Bond angles

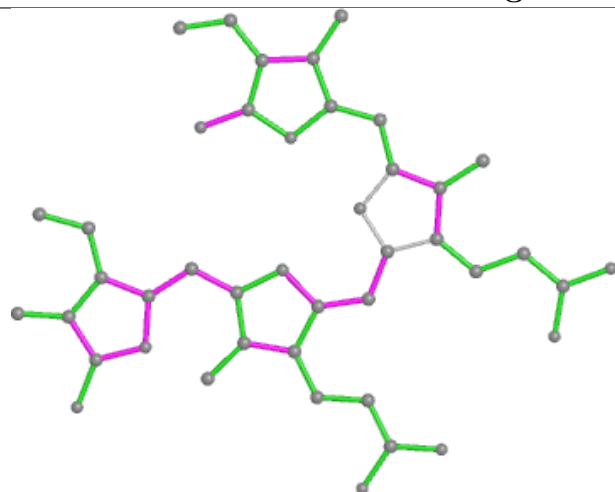


Torsions

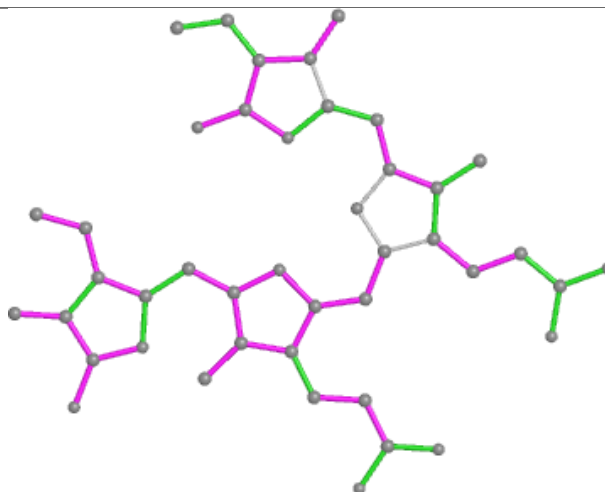


Rings

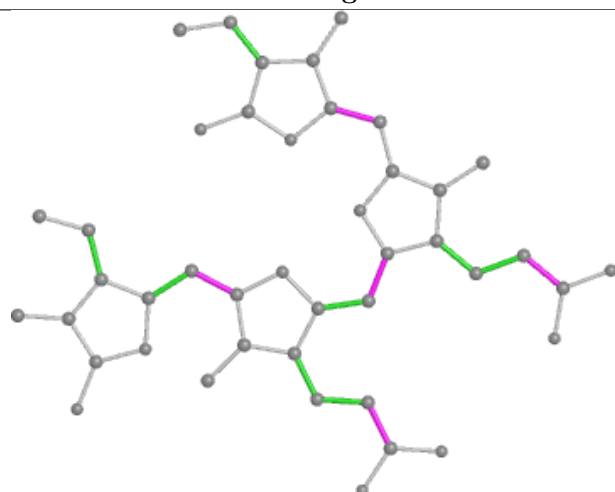
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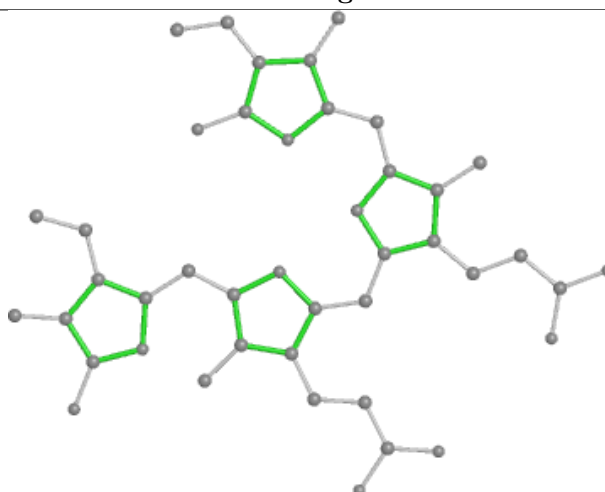
Bond lengths



Bond angles

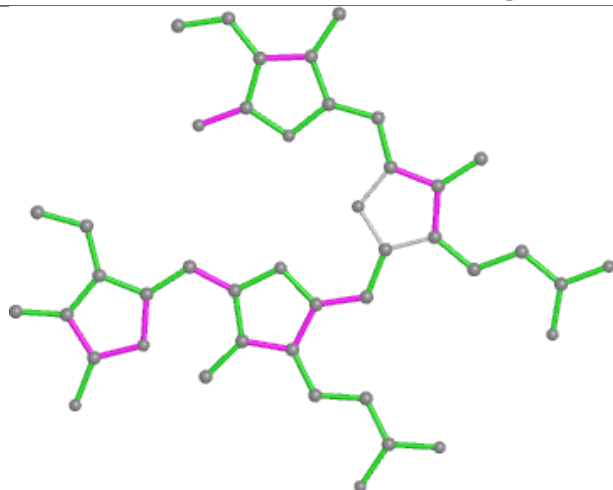


Torsions

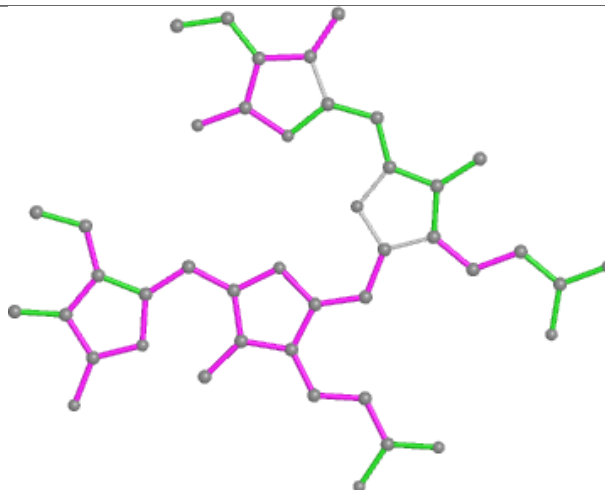


Rings

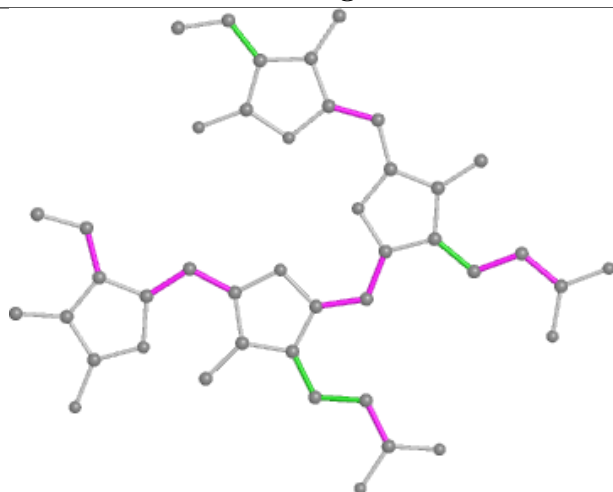
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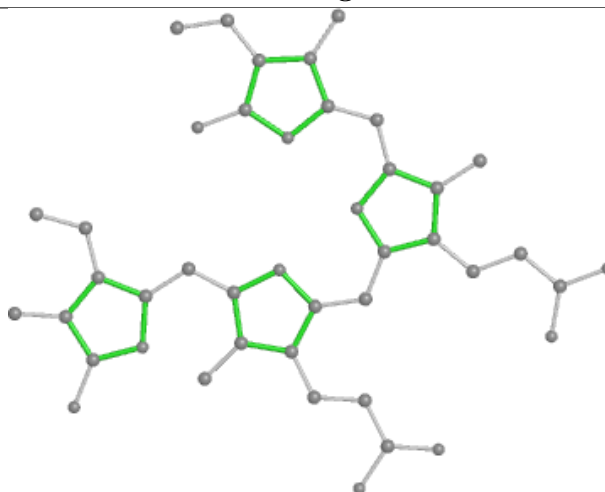
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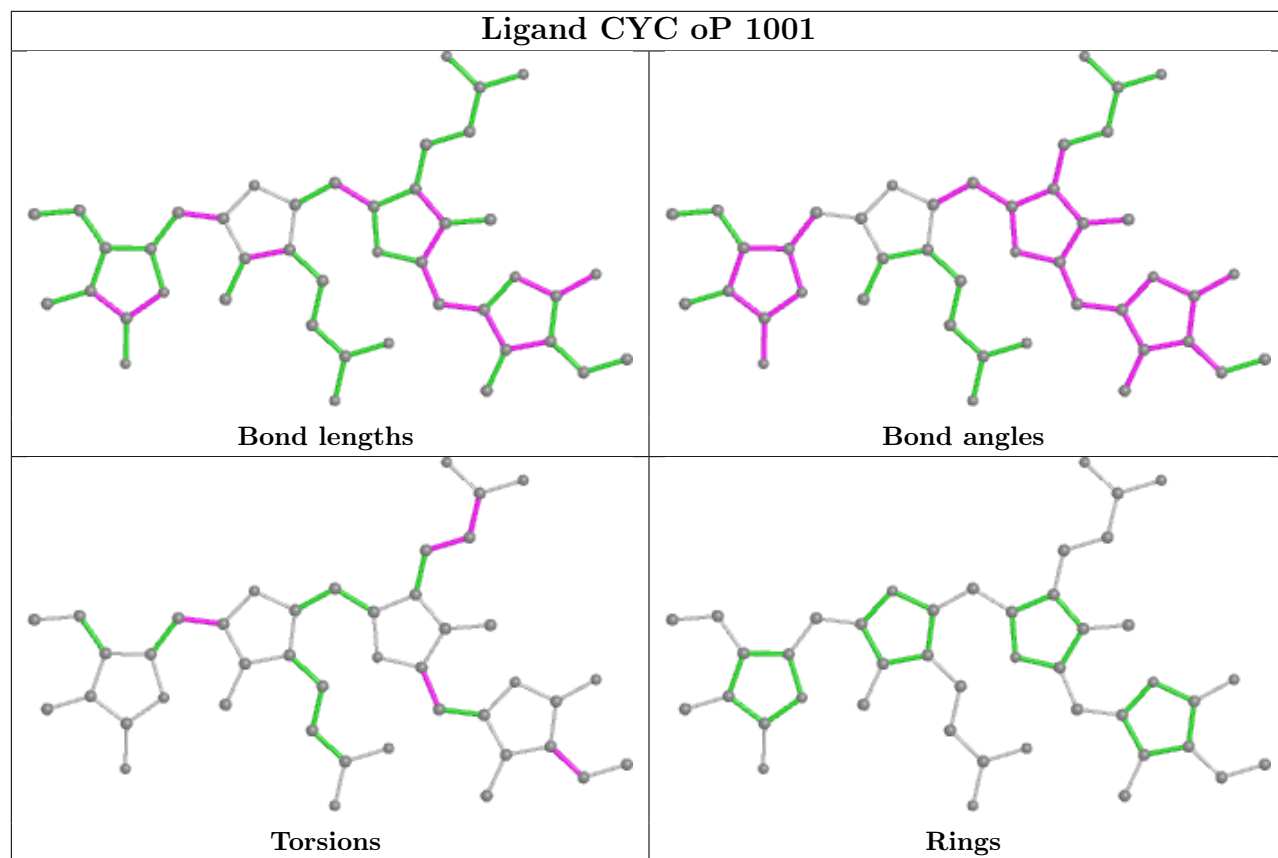
Bond angles



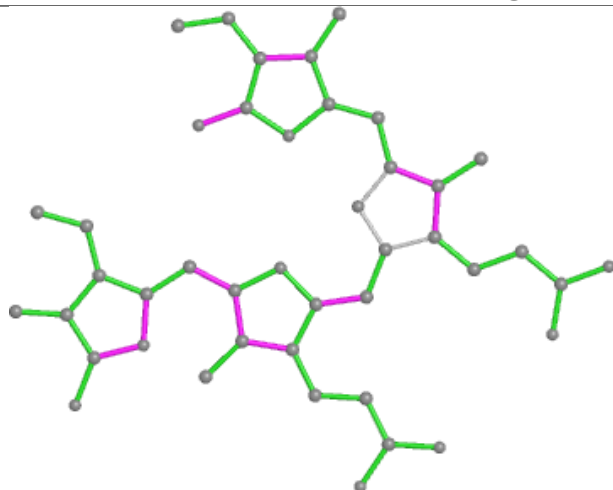
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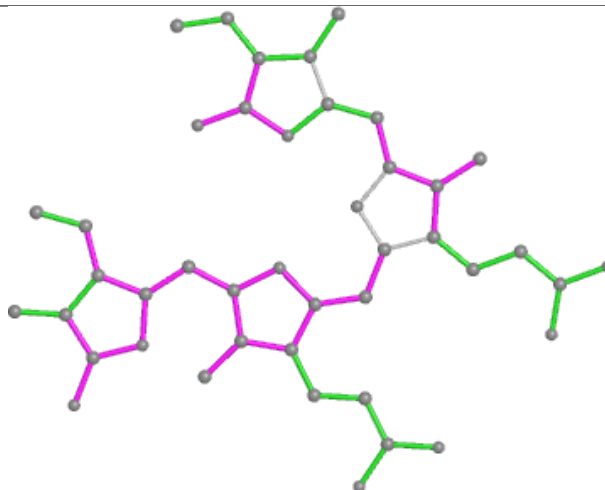
Rings



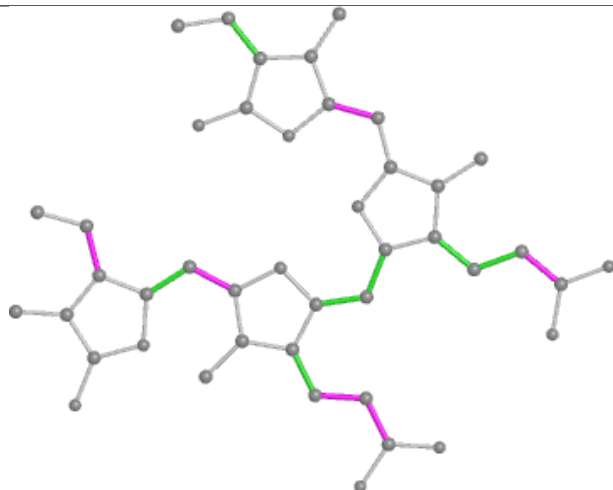
Ligand PEB A9 305



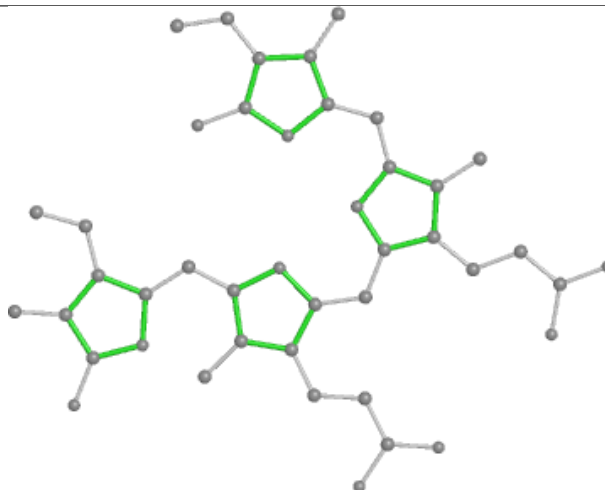
Bond lengths



Bond angles

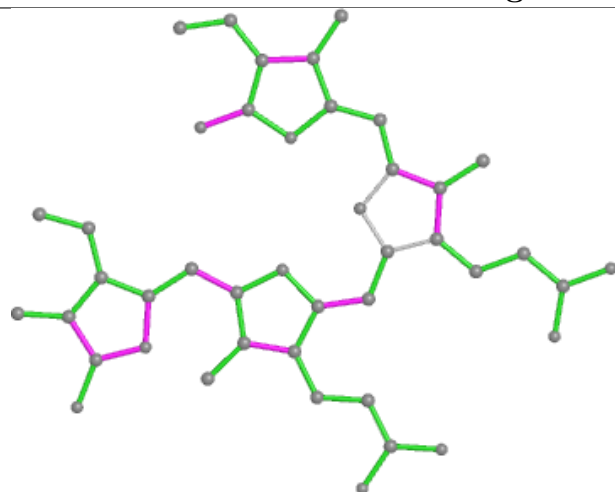


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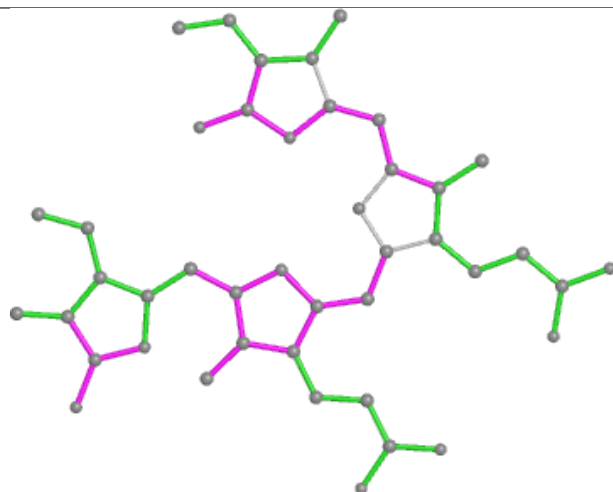


Rings

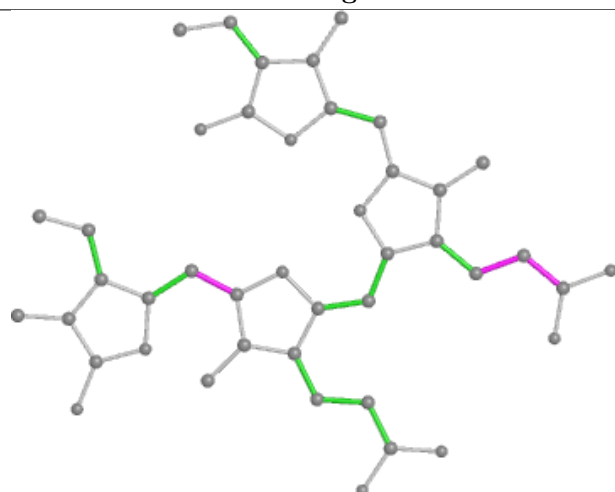
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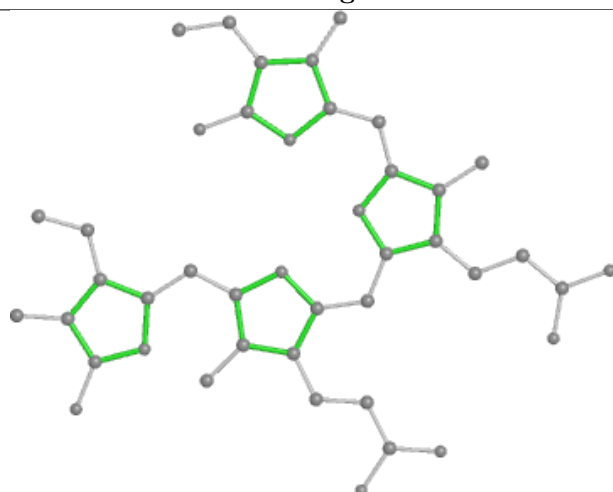
Bond lengths



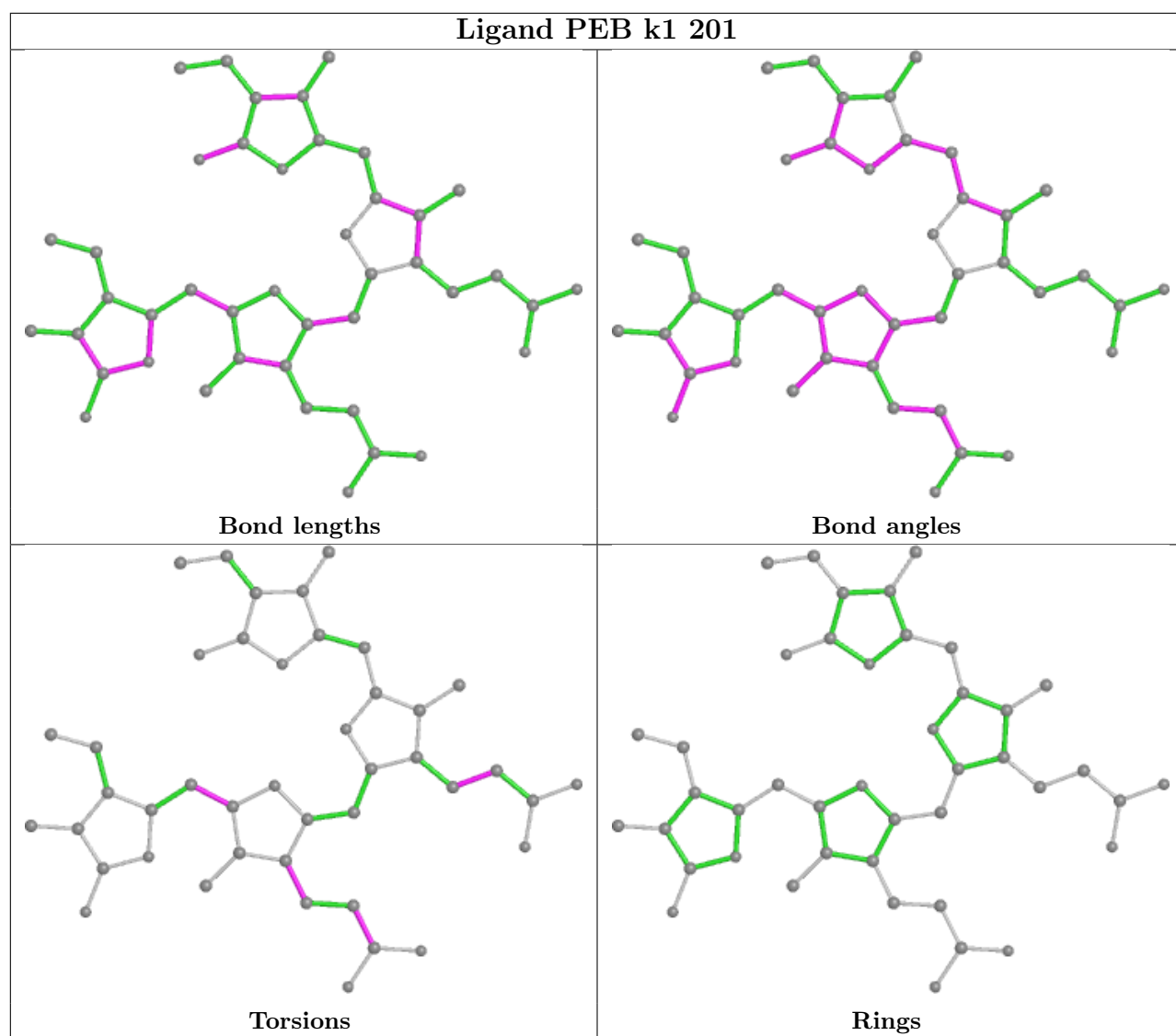
Bond angles



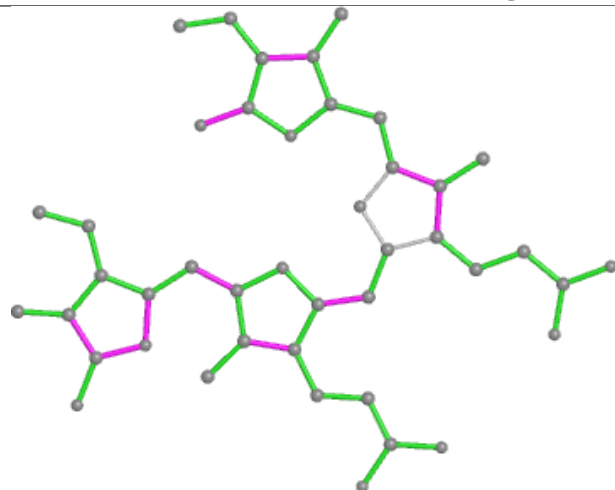
Torsions



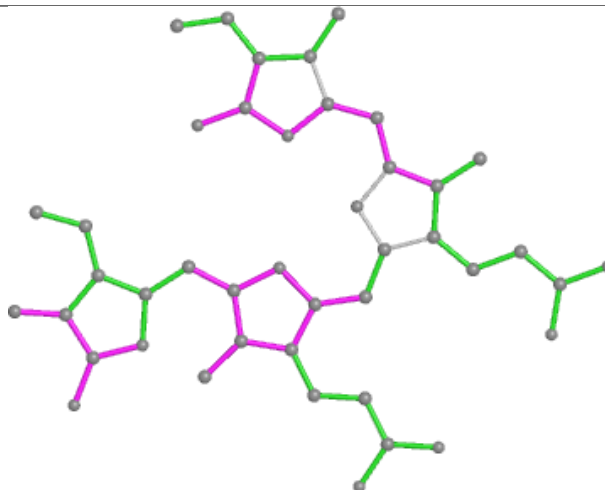
Rings



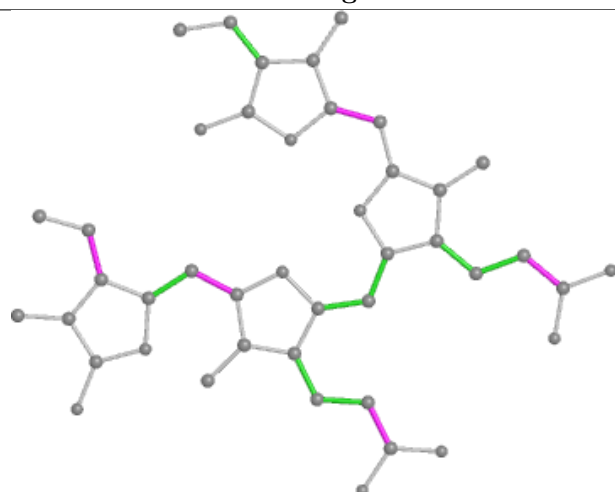
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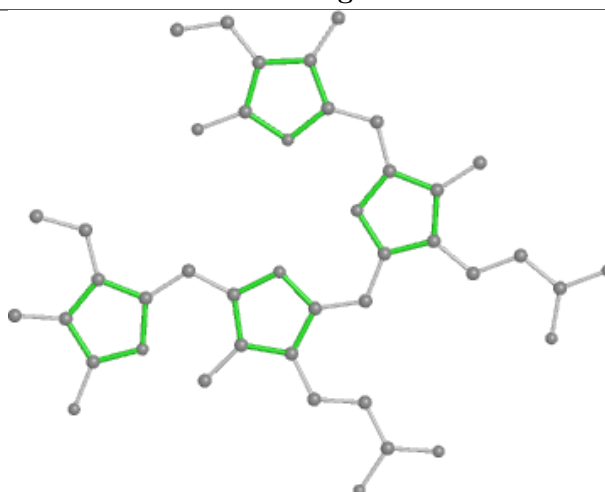
Bond lengths



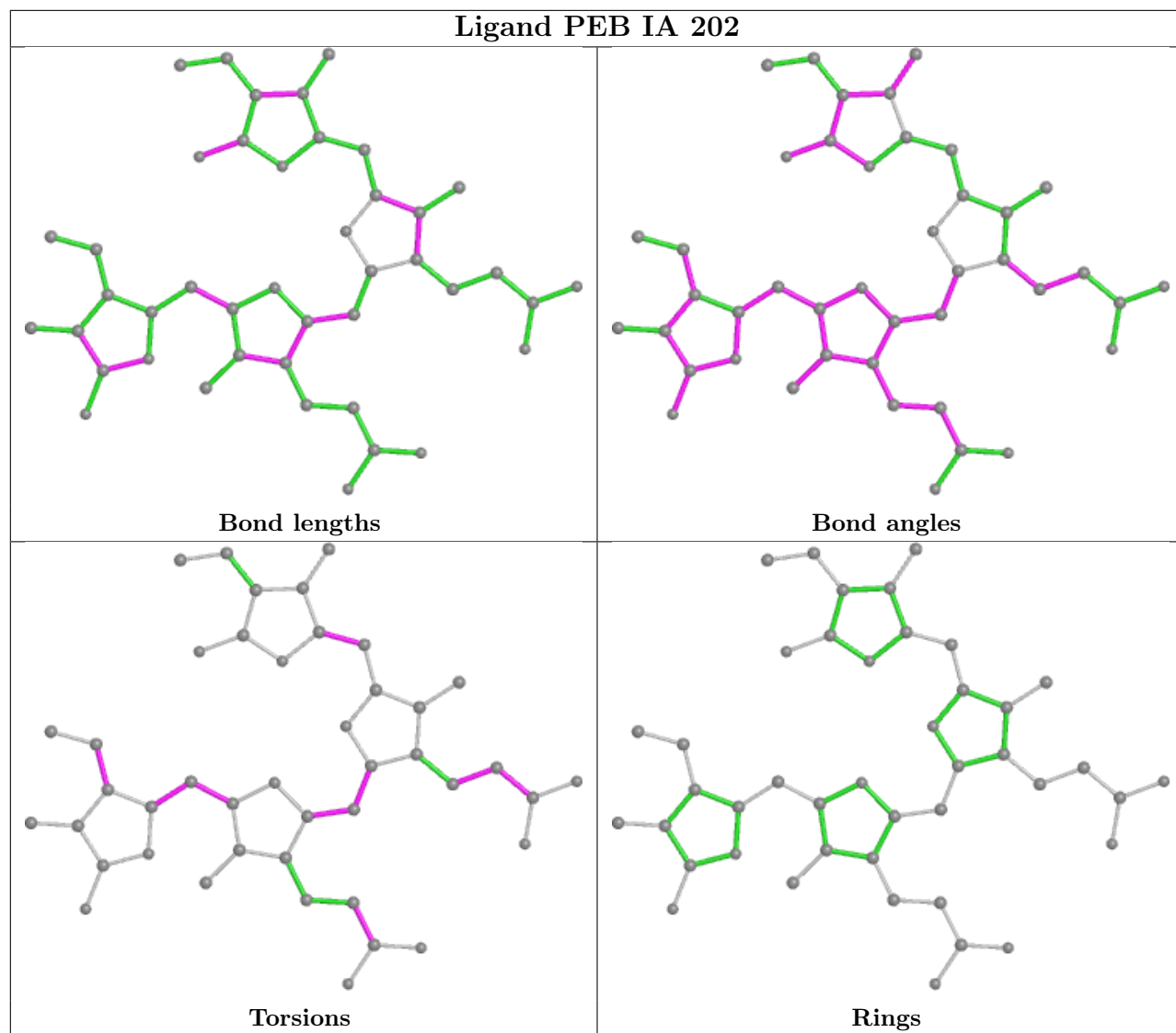
Bond angles

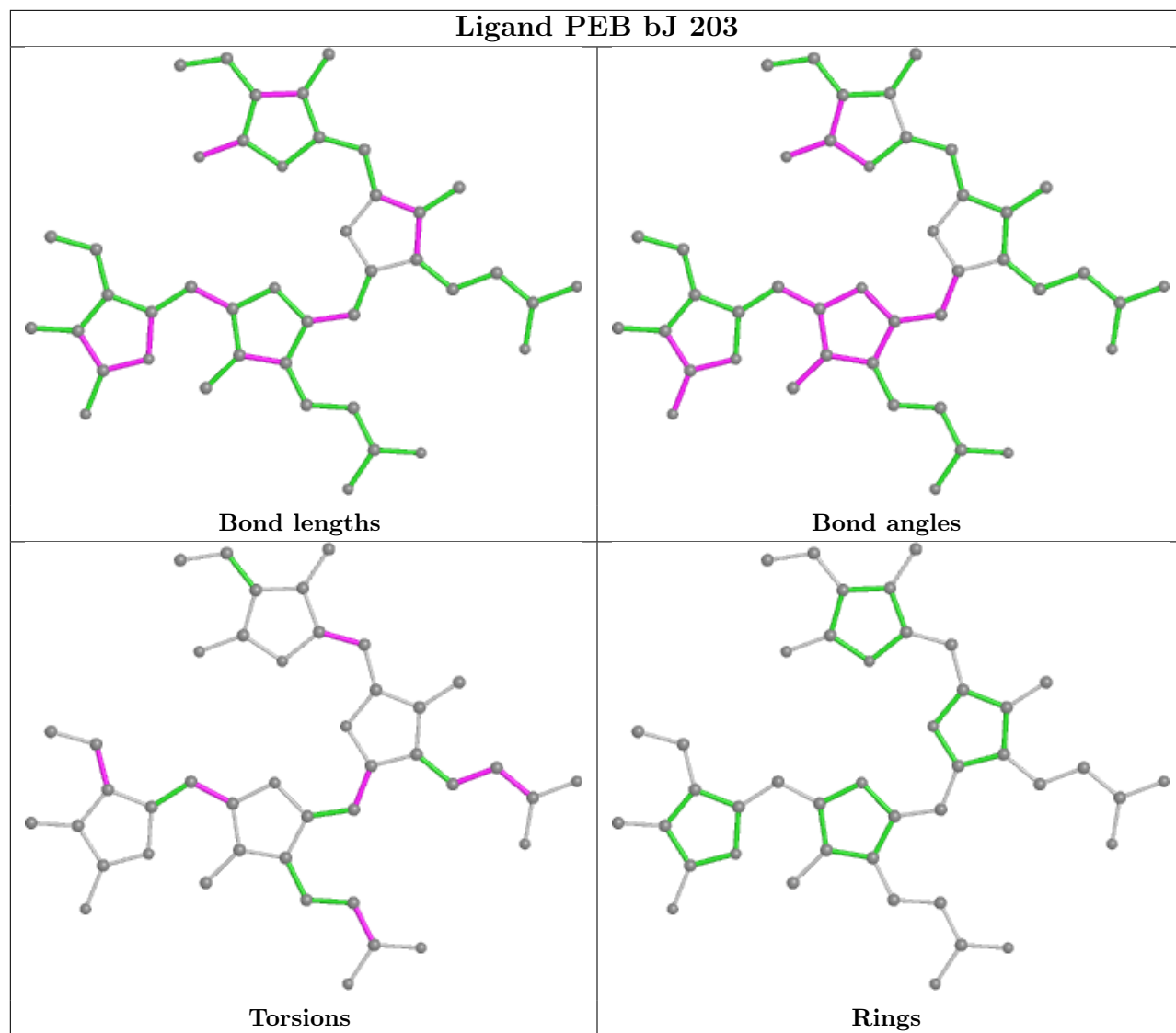


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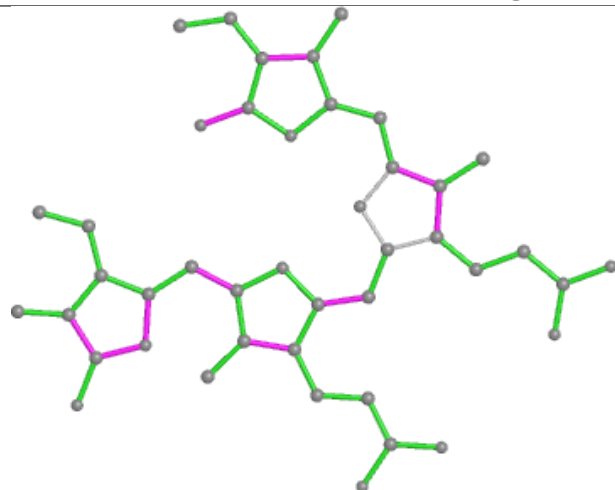


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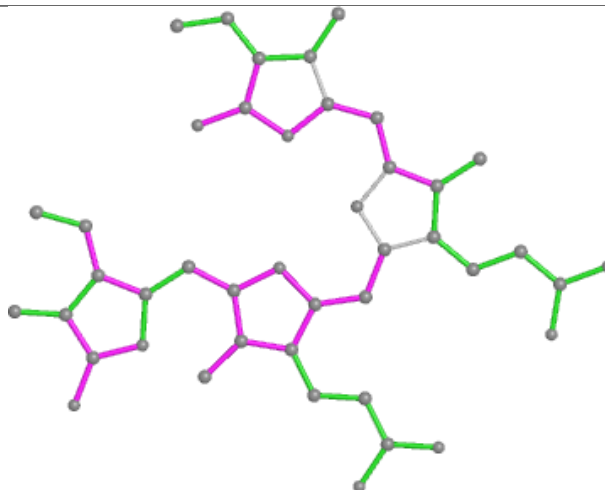




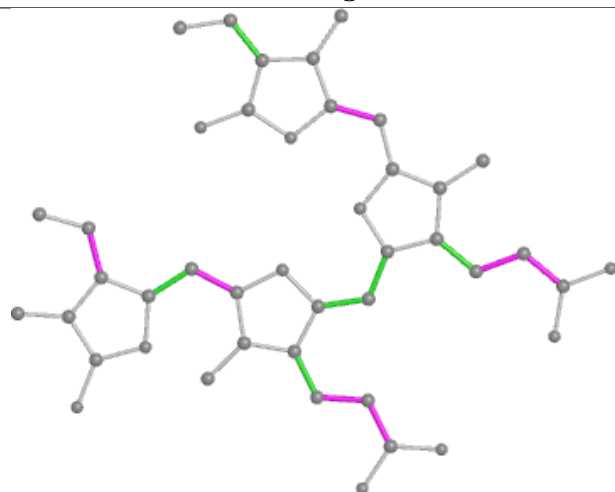
Ligand PEB A1 301



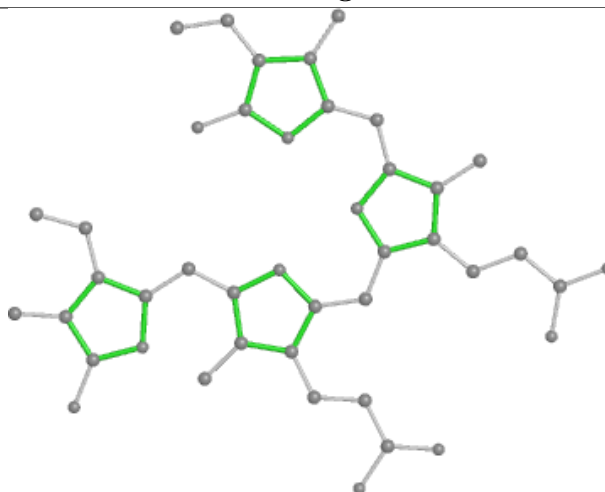
Bond lengths



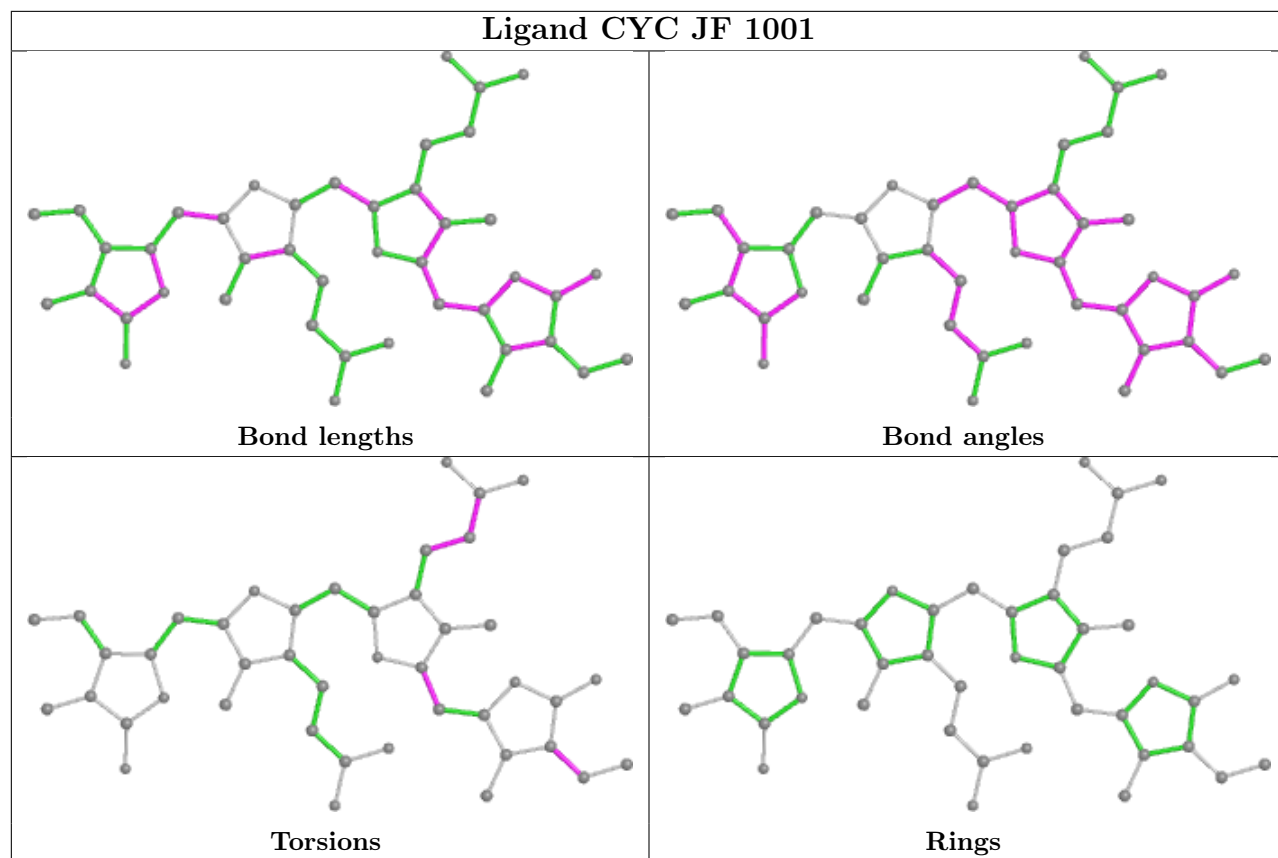
Bond angles



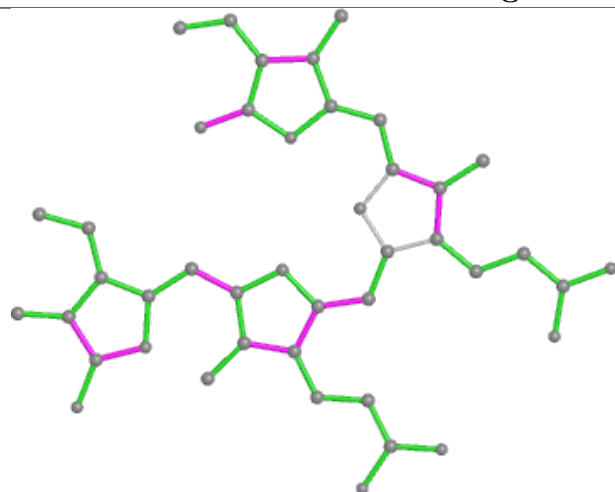
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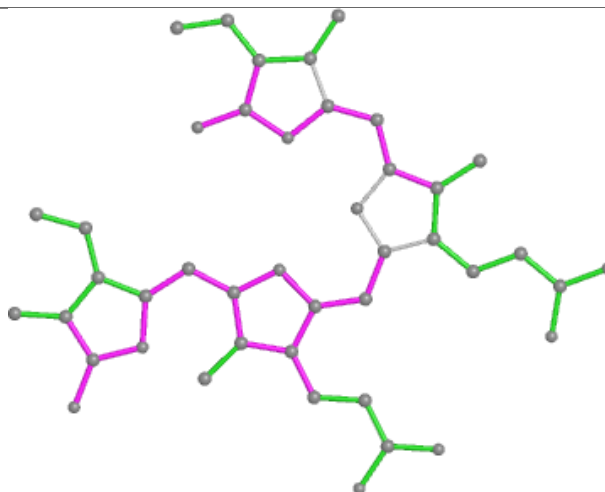
Rings



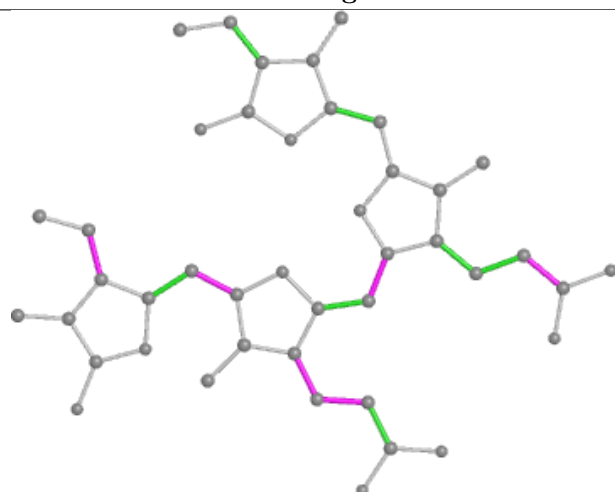
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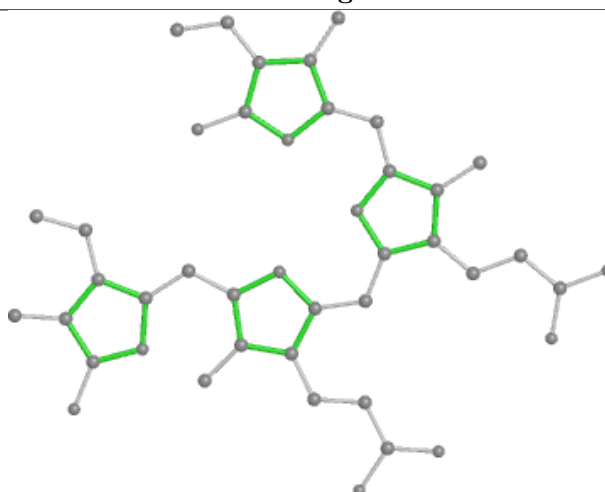
Bond lengths



Bond angles

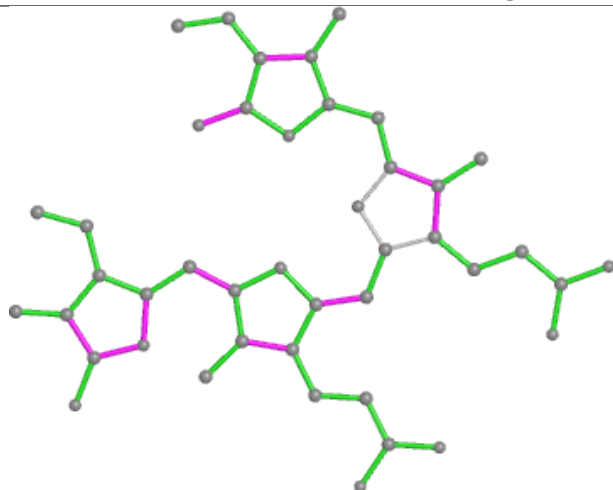


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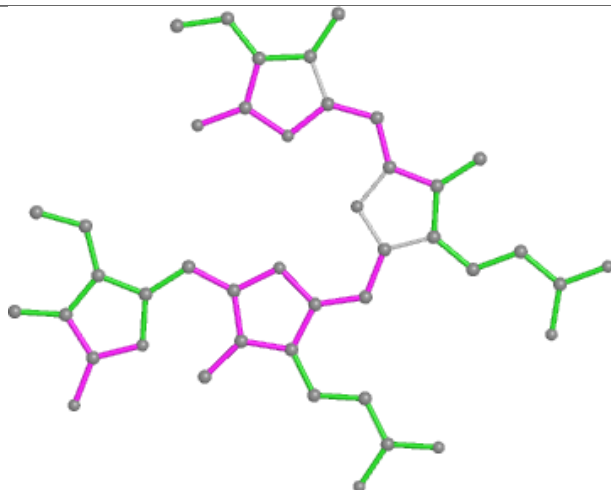


Rings

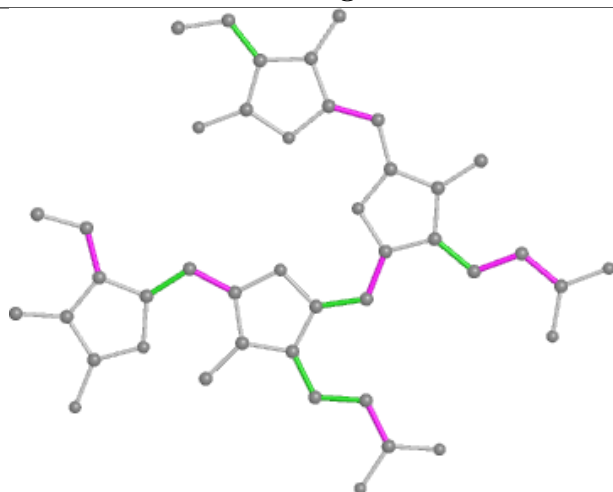
Ligand PEB AB 303



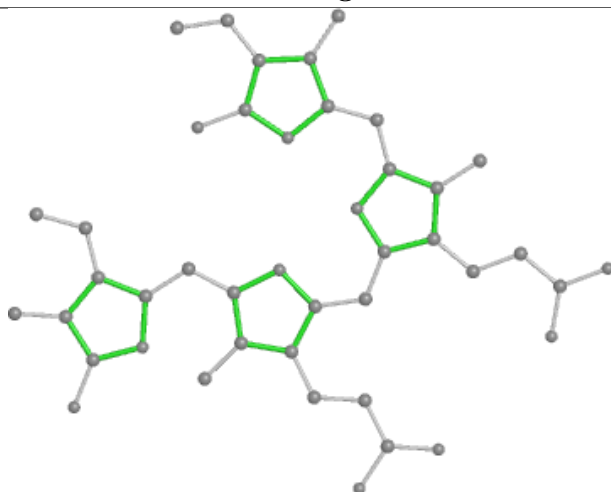
Bond lengths



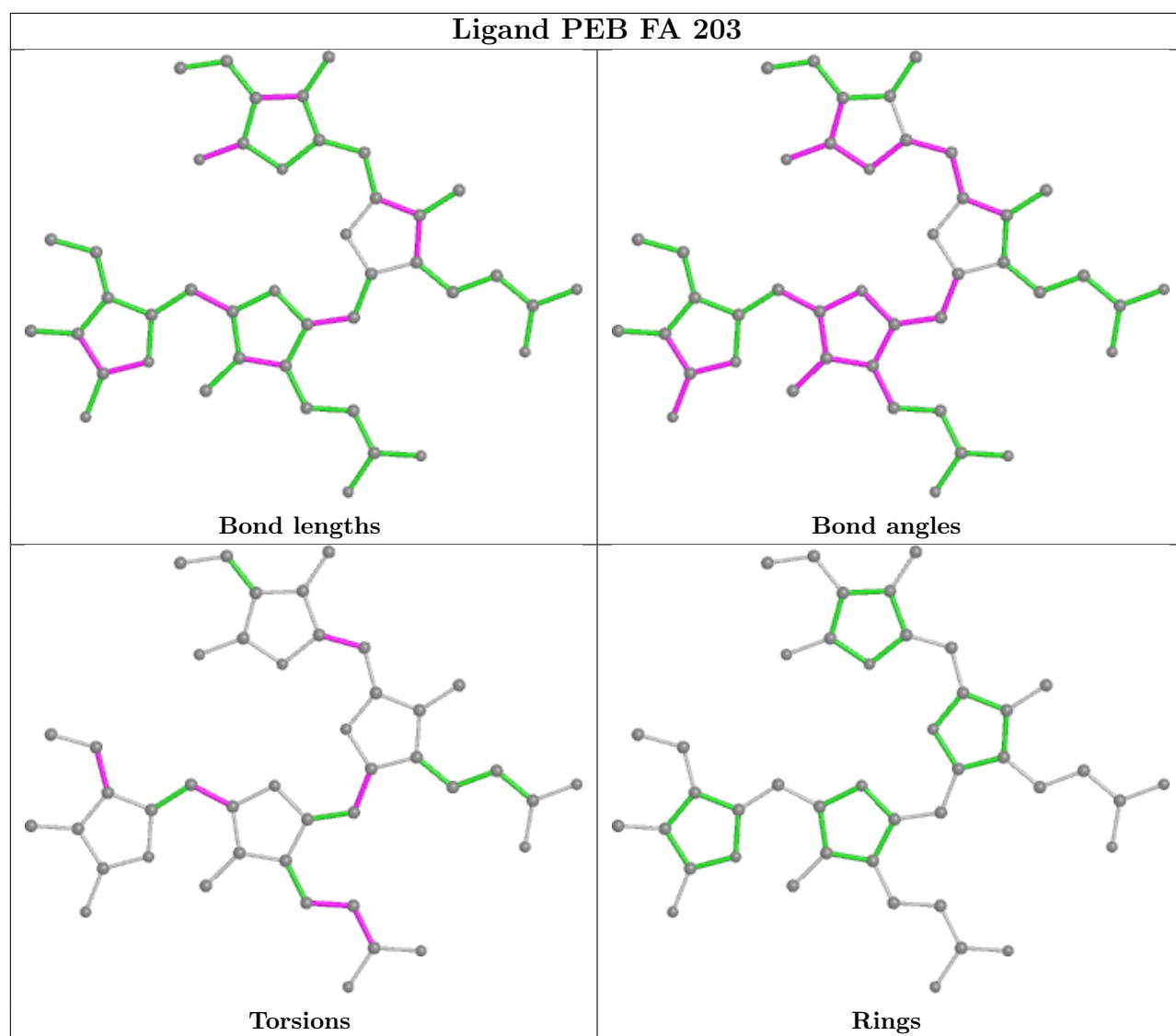
Bond angles

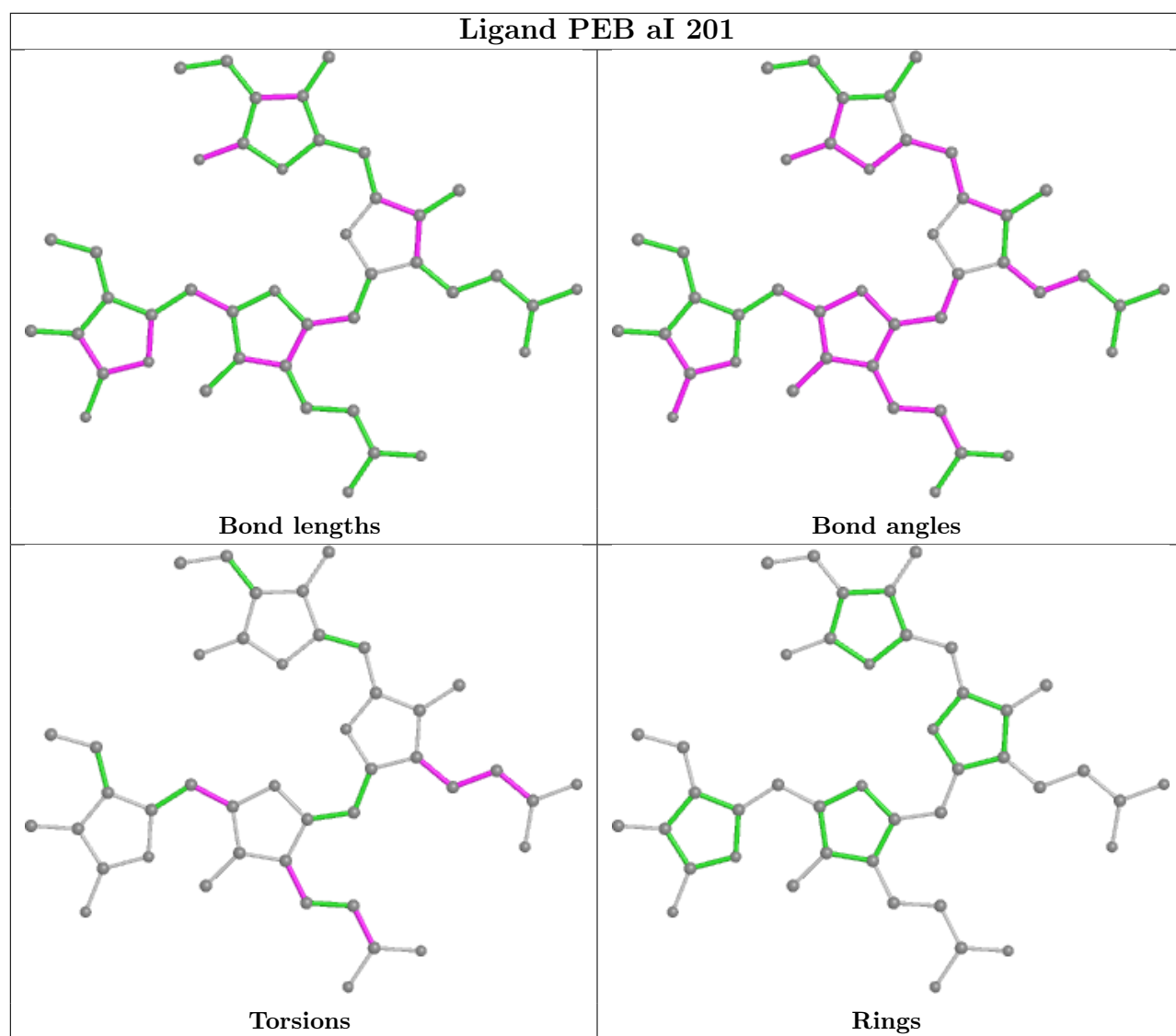


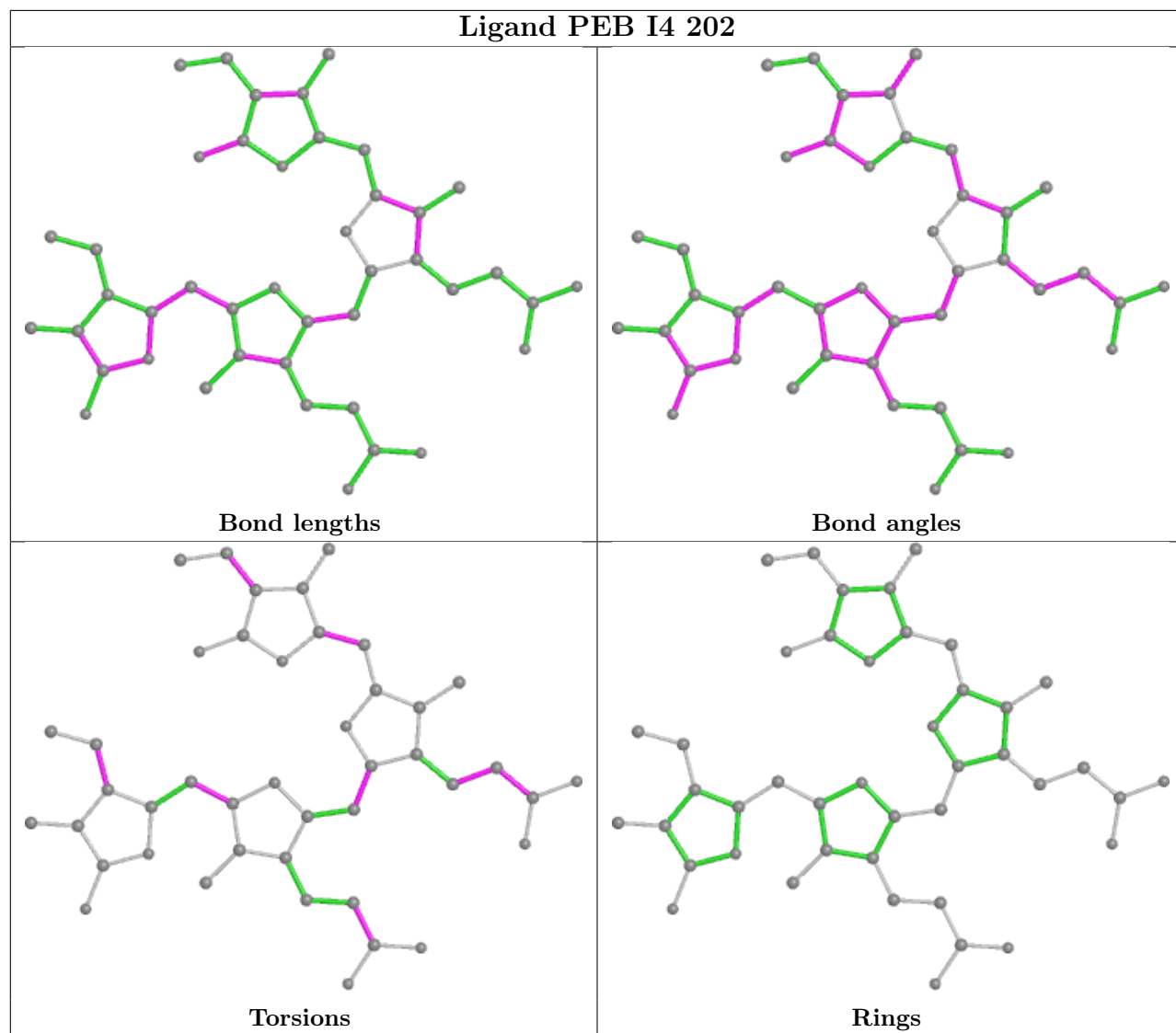
Torsions

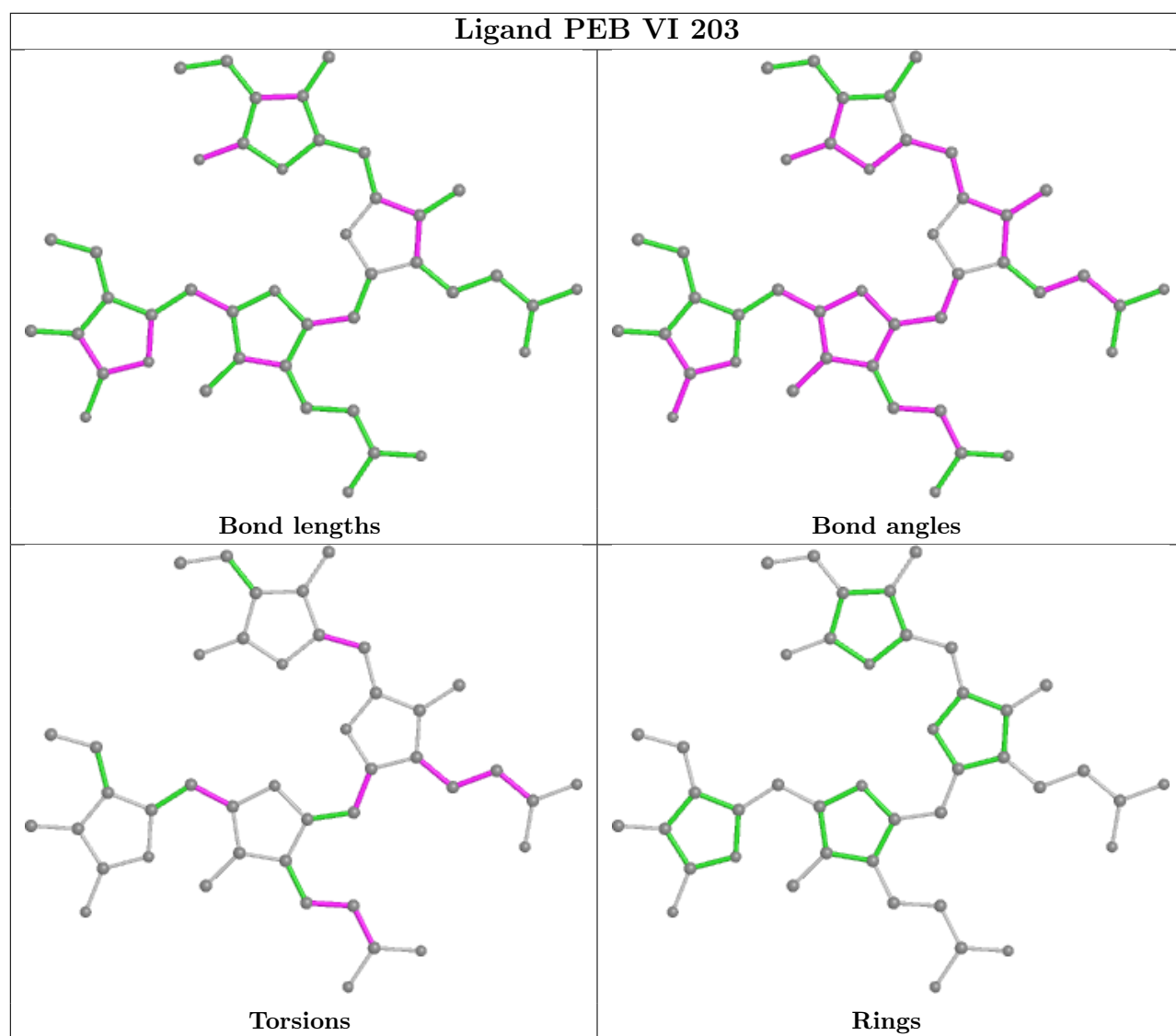


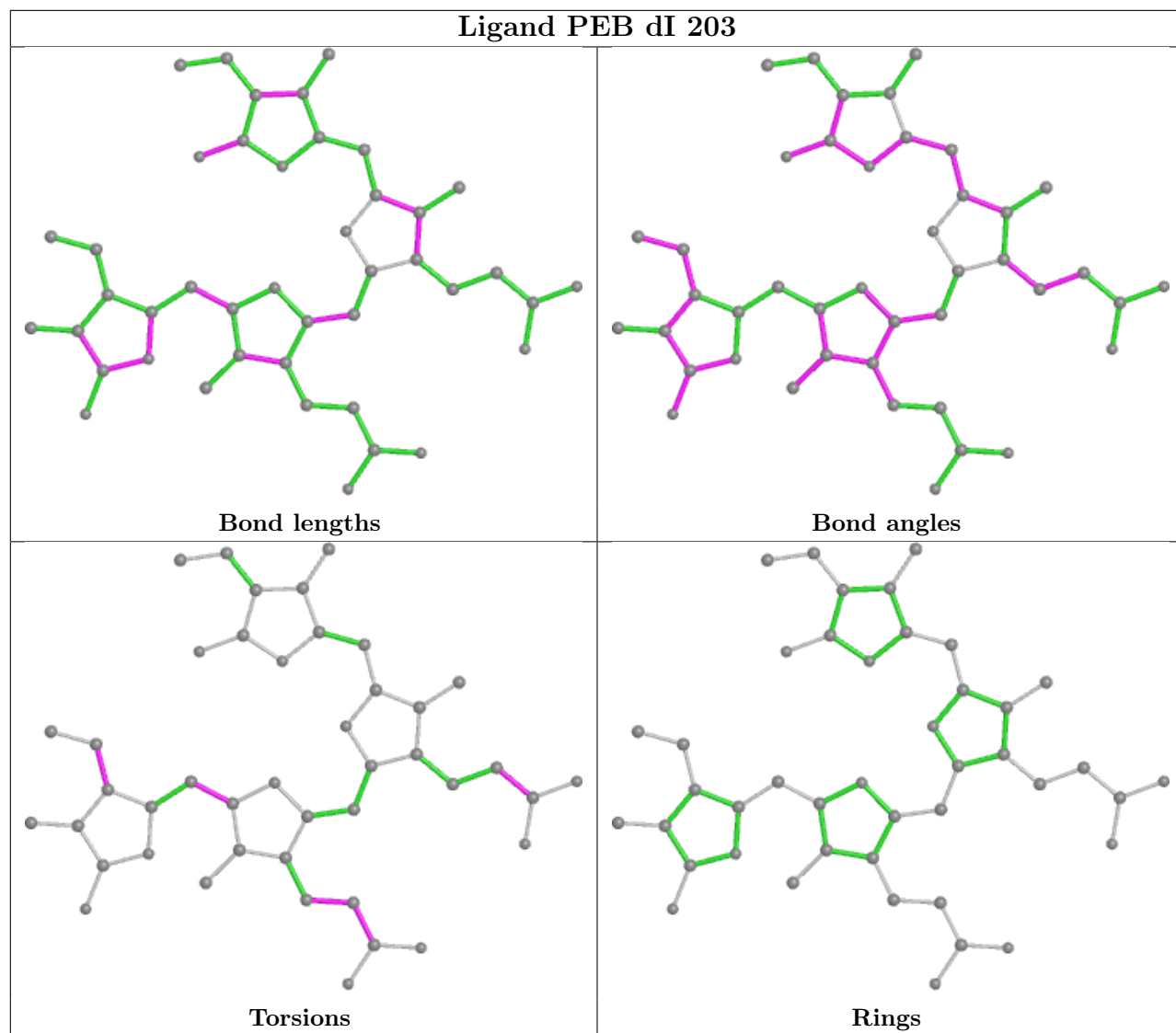
Rings



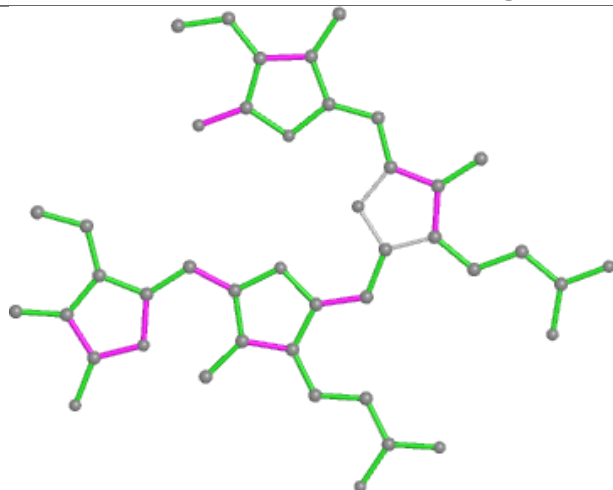




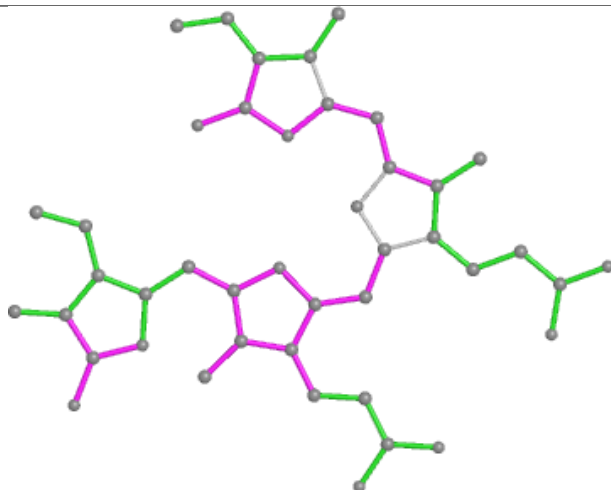




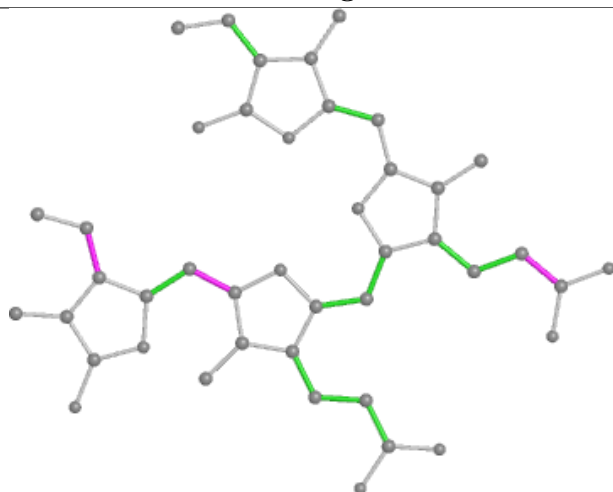
Ligand PEB LM 202



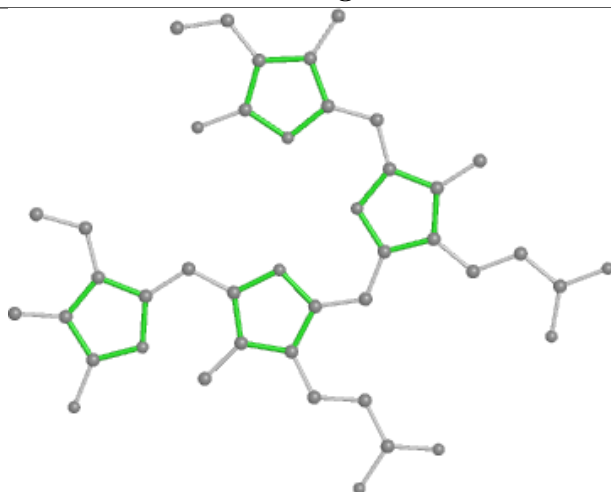
Bond lengths



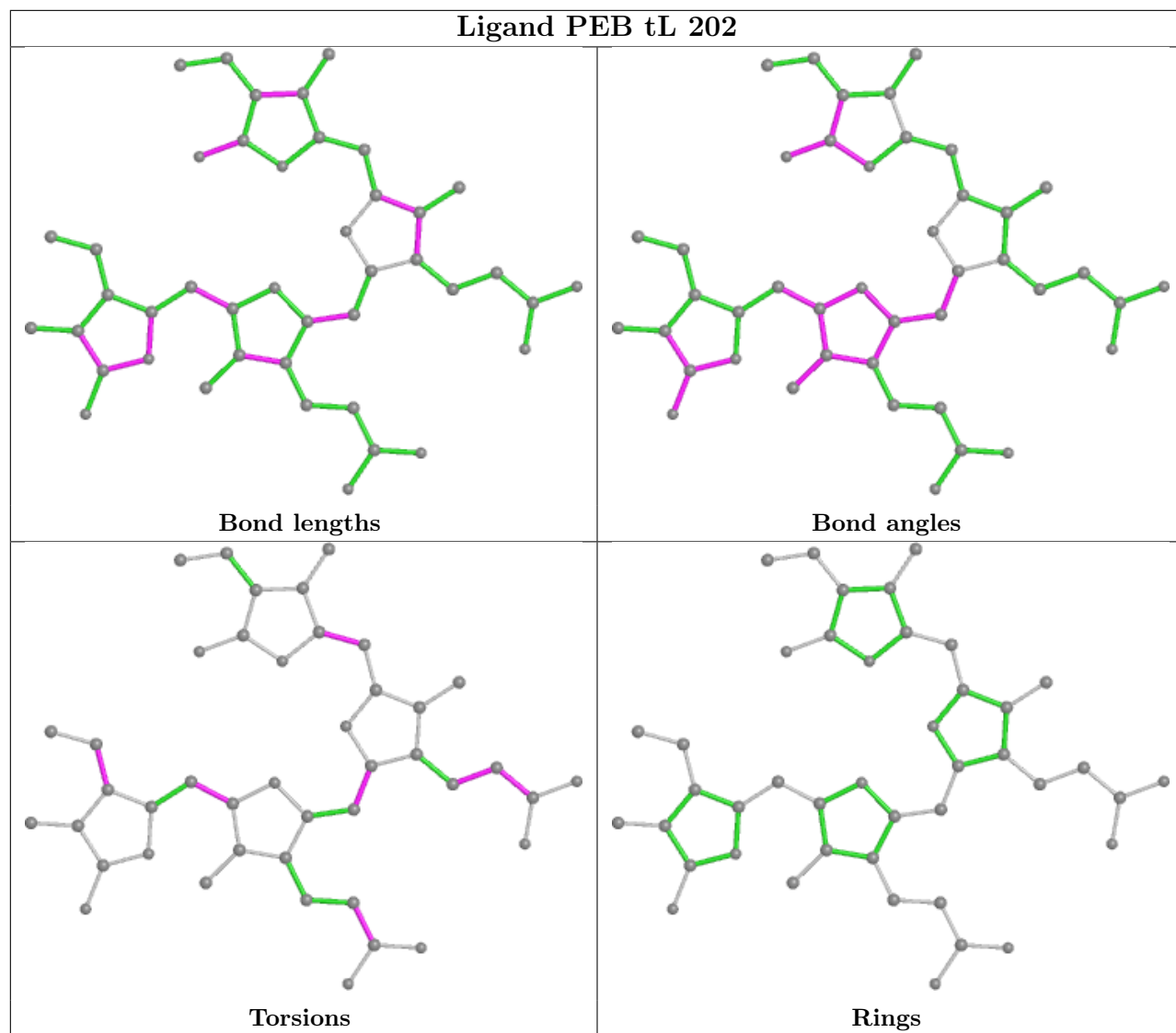
Bond angles



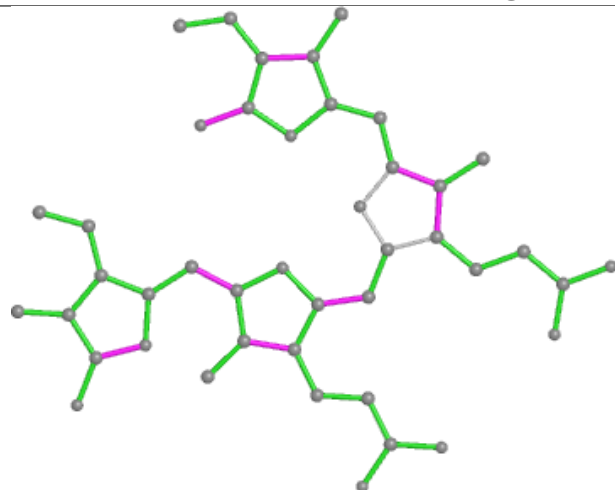
Torsions



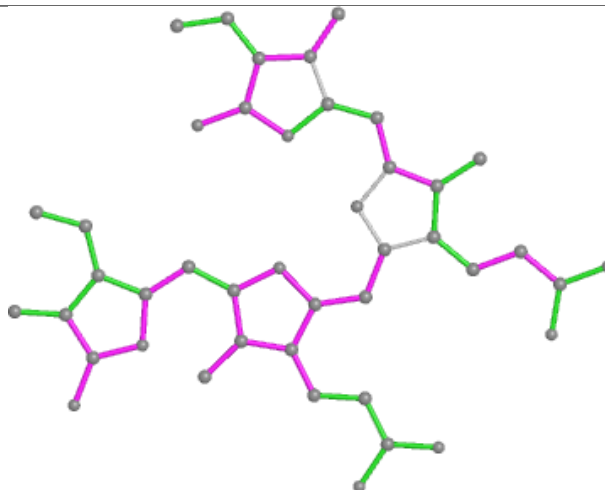
Rings



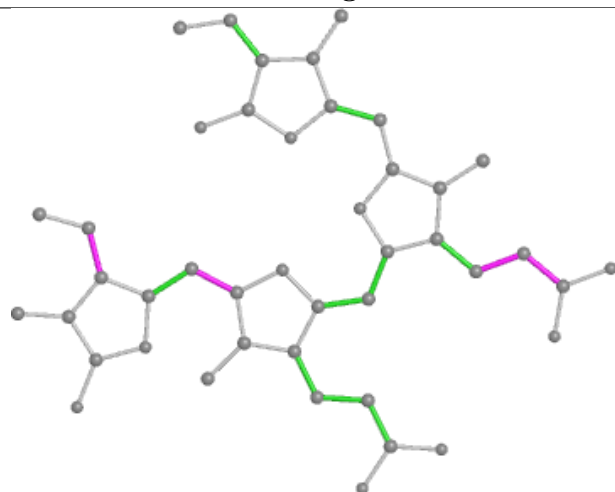
Ligand PEB XR 202



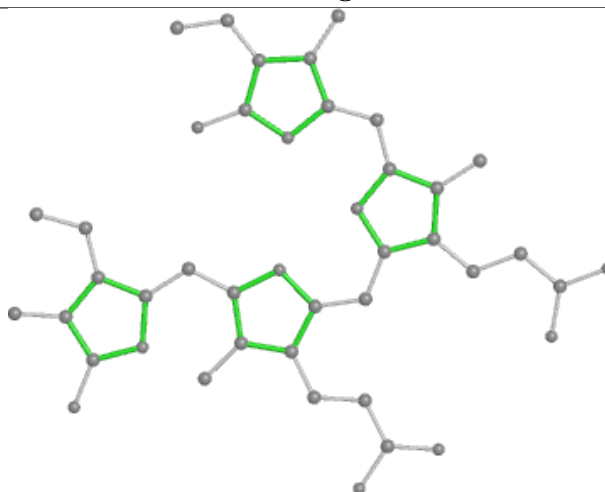
Bond lengths



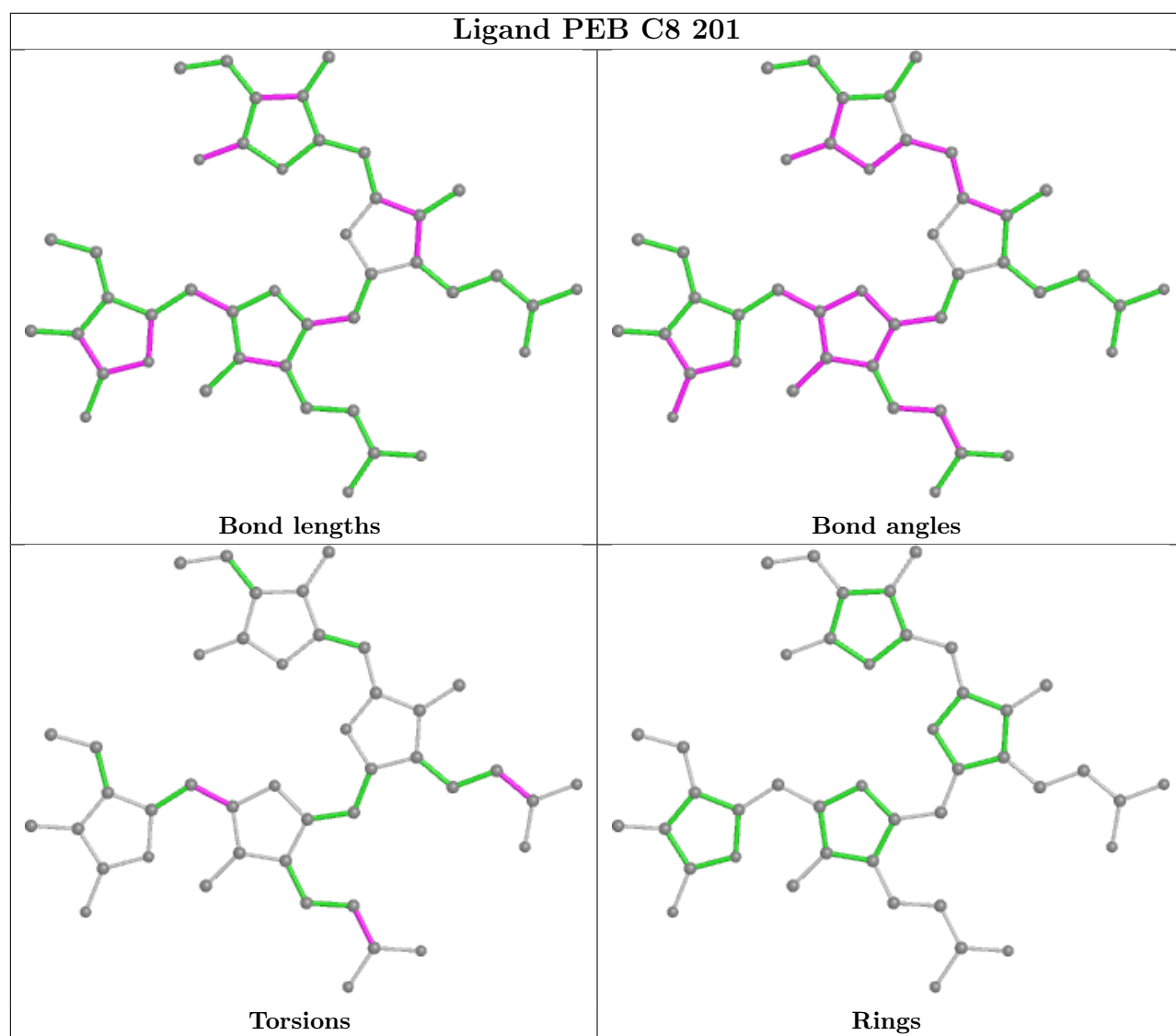
Bond angles

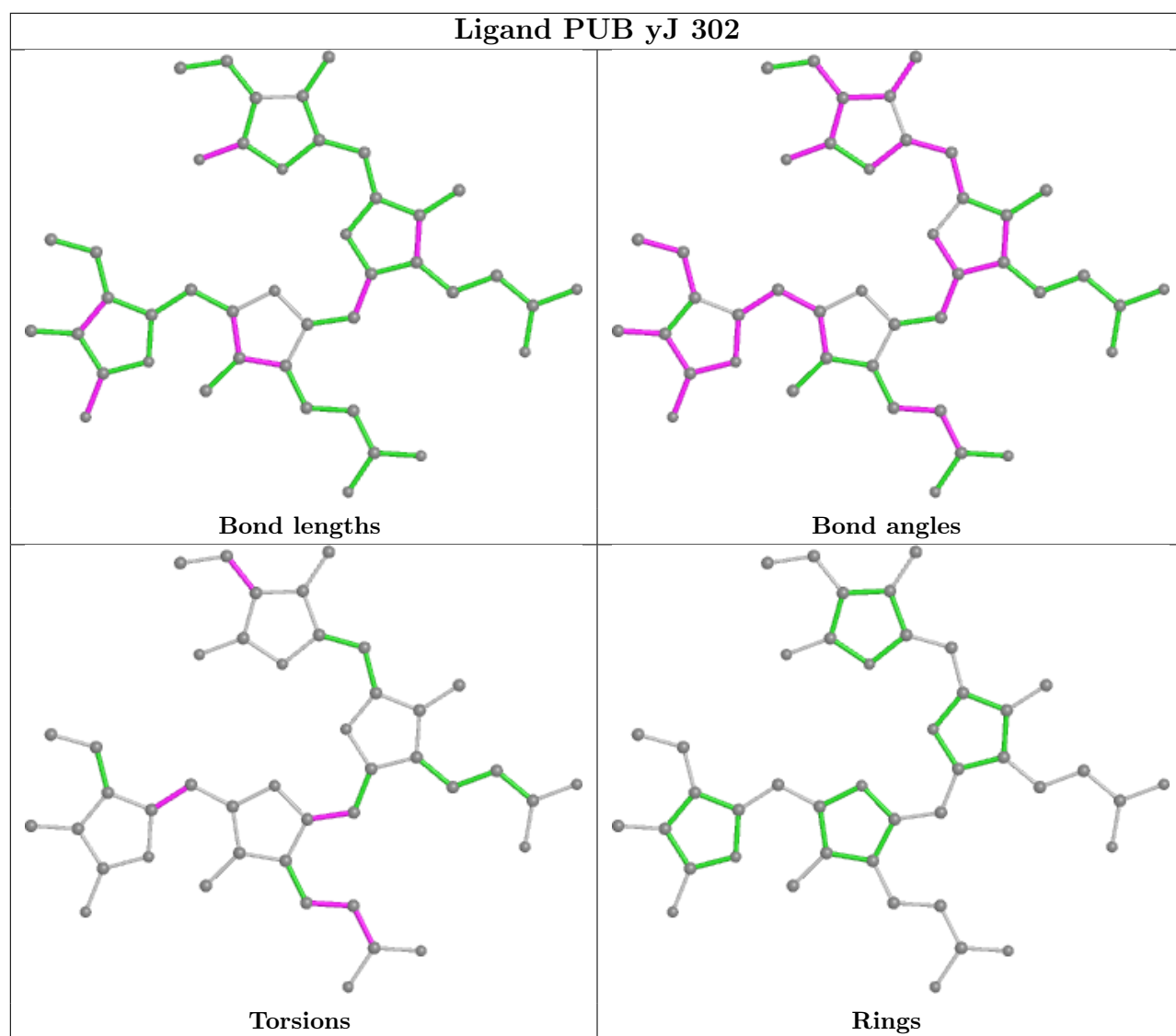


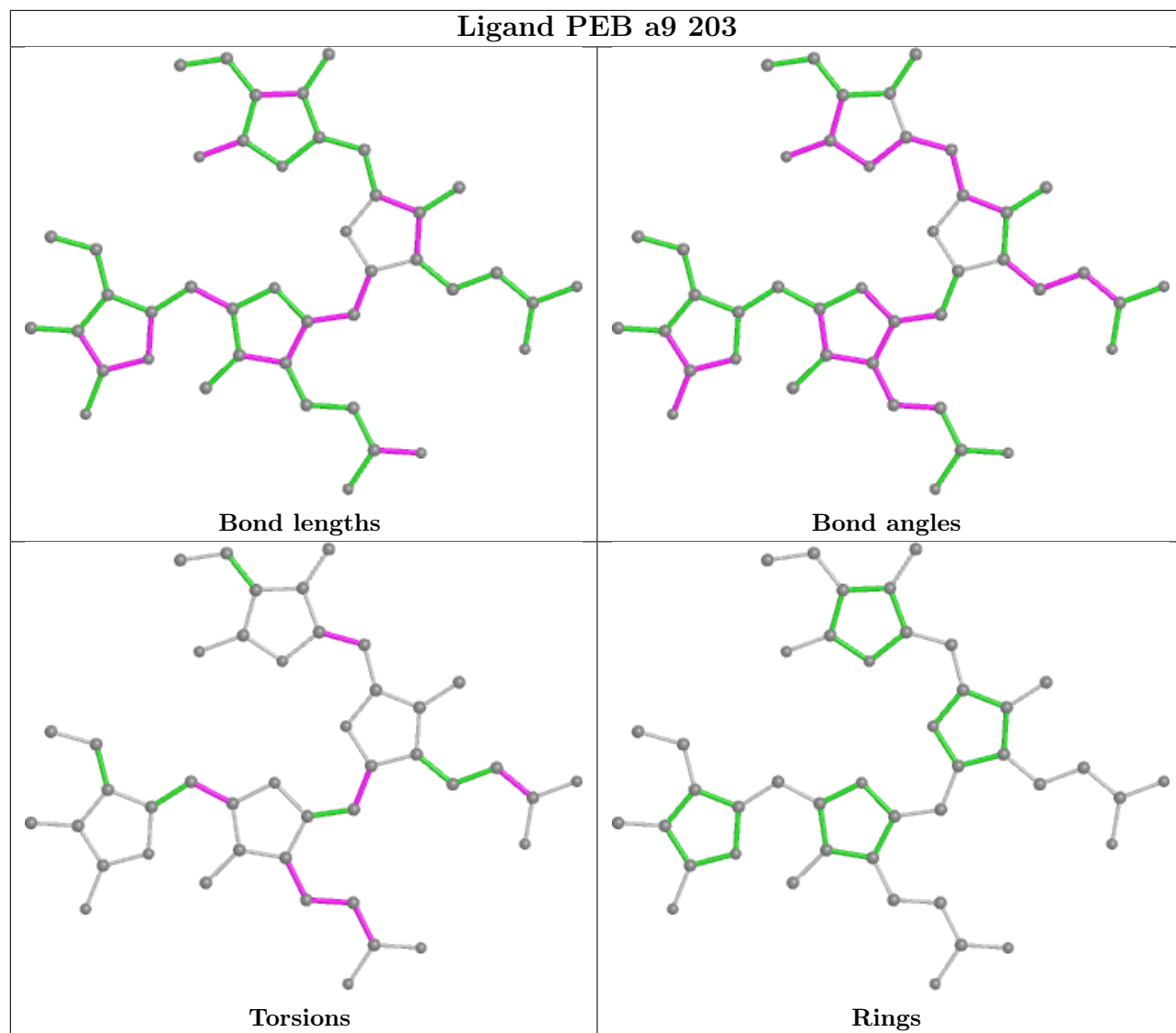
Torsions



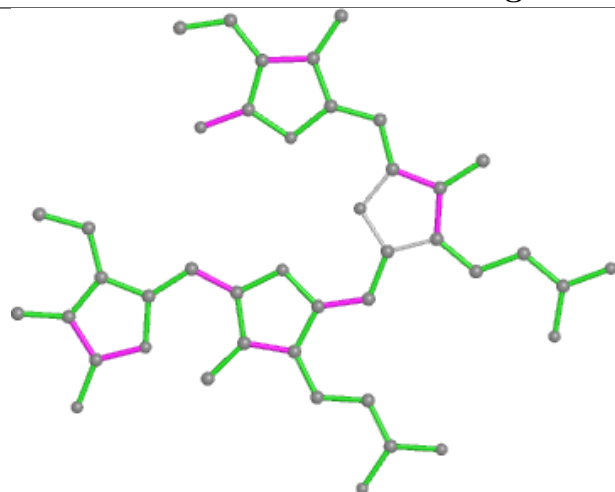
Rings



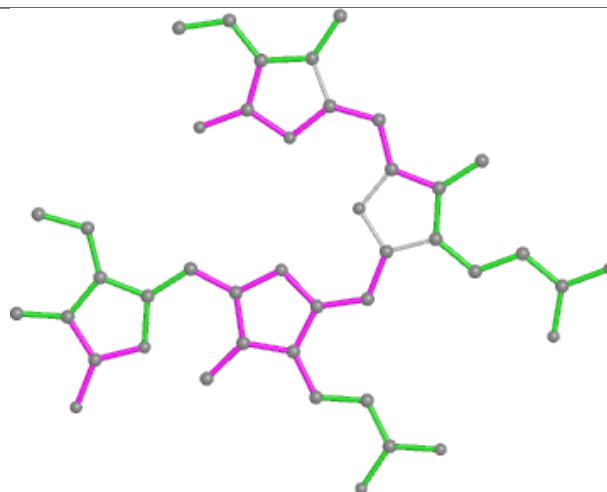




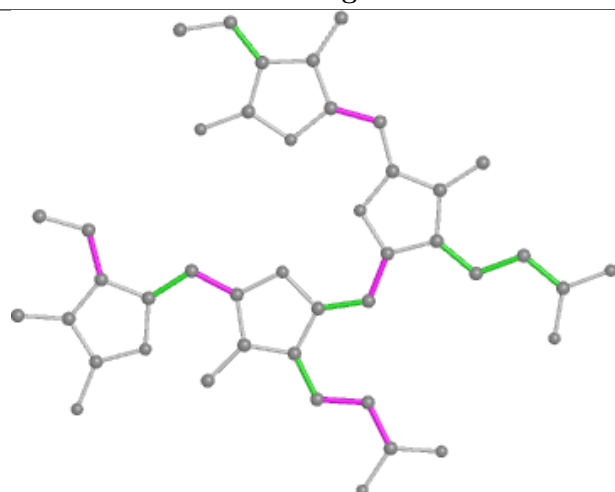
Ligand PEB LN 203



Bond lengths



Bond angles

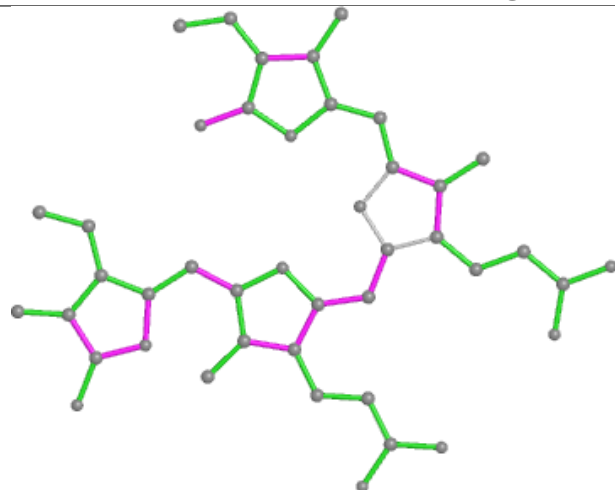


Torsions

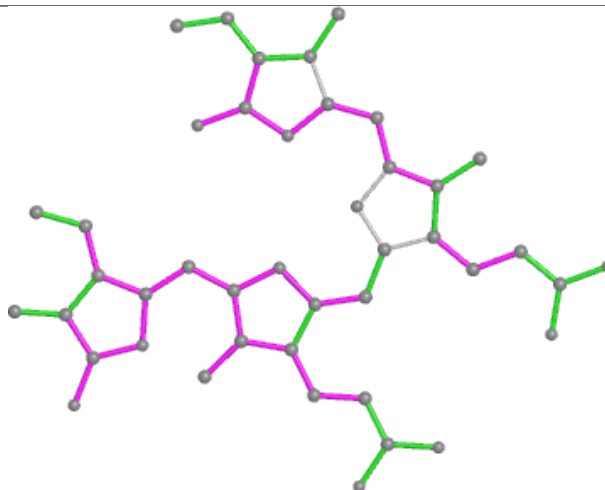


Rings

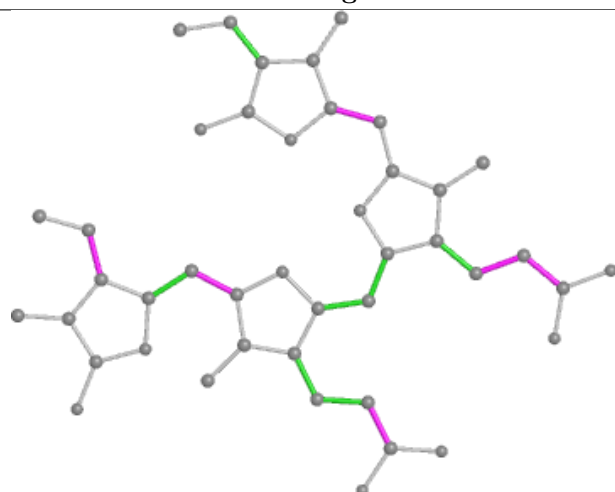
Ligand PEB M2 202



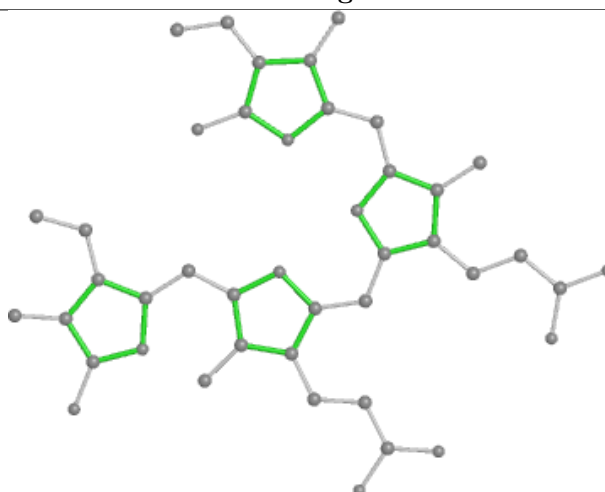
Bond lengths



Bond angles

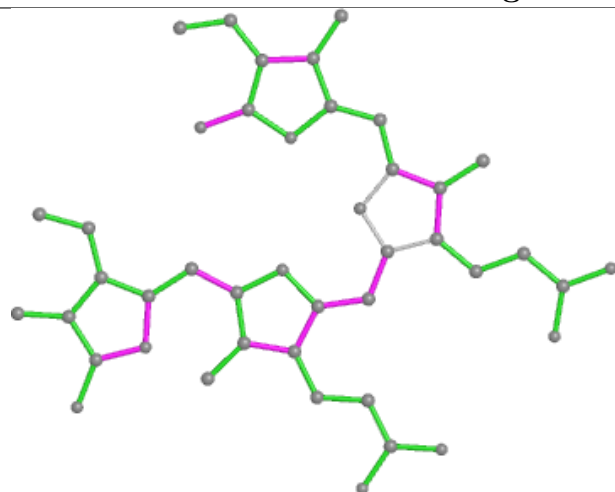


Torsions

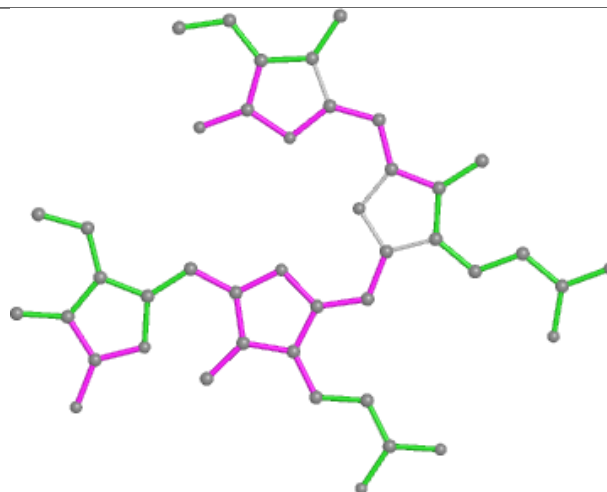


Rings

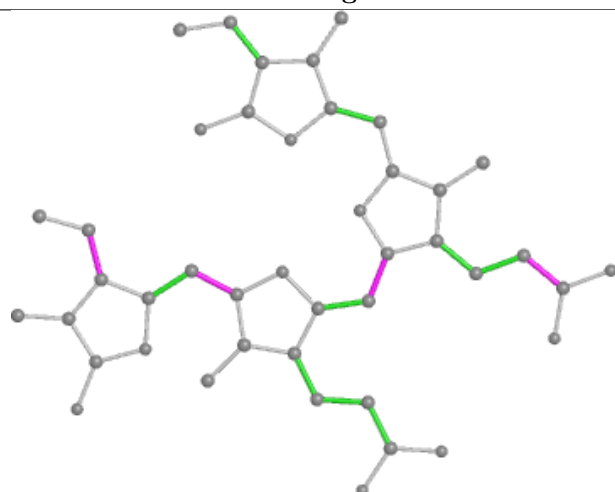
Ligand PEB HC 202



Bond lengths



Bond angles

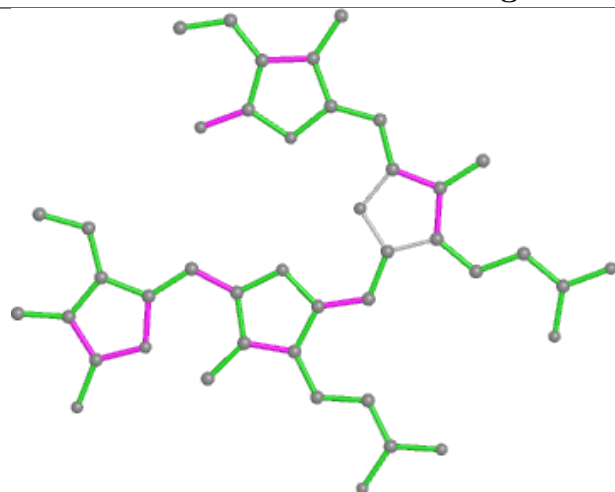


Torsions

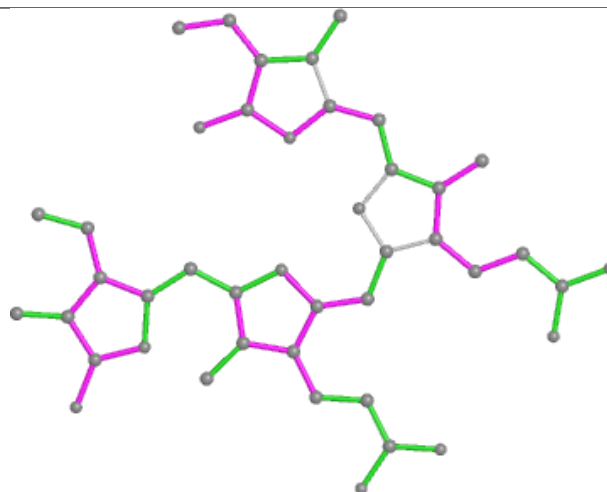


Rings

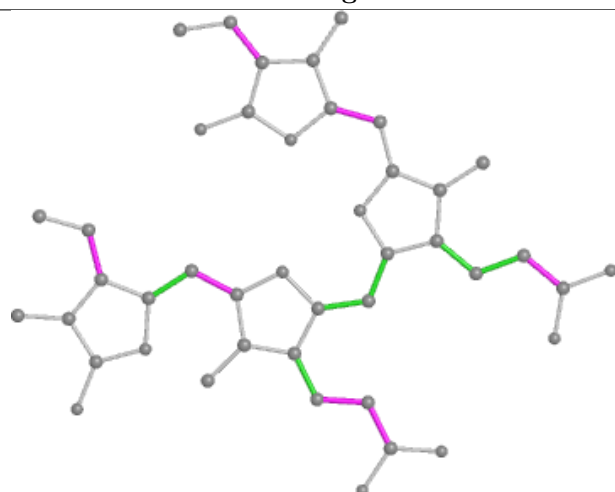
Ligand PEB DI 1002



Bond lengths



Bond angles

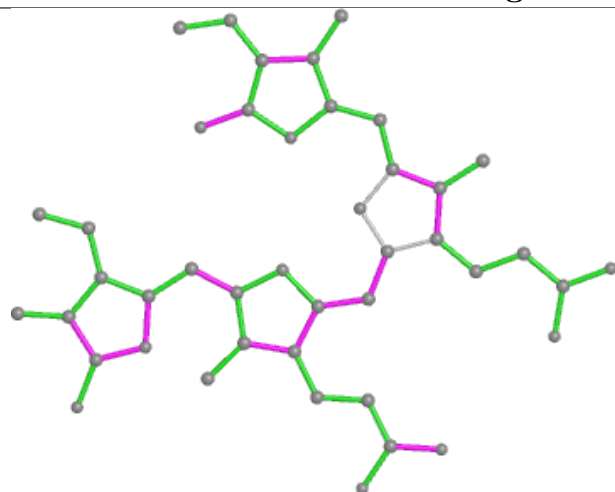


Torsions

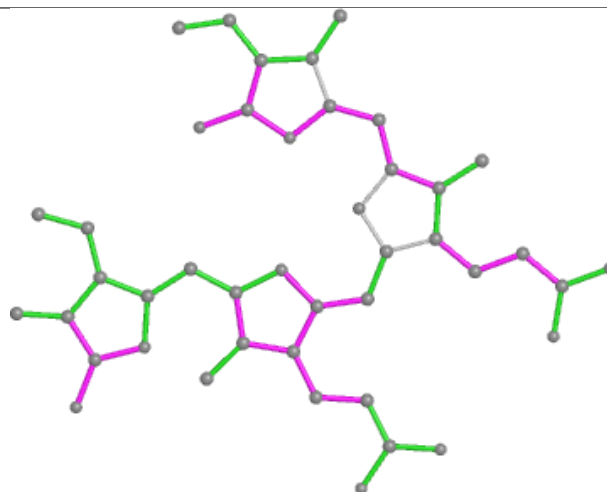


Rings

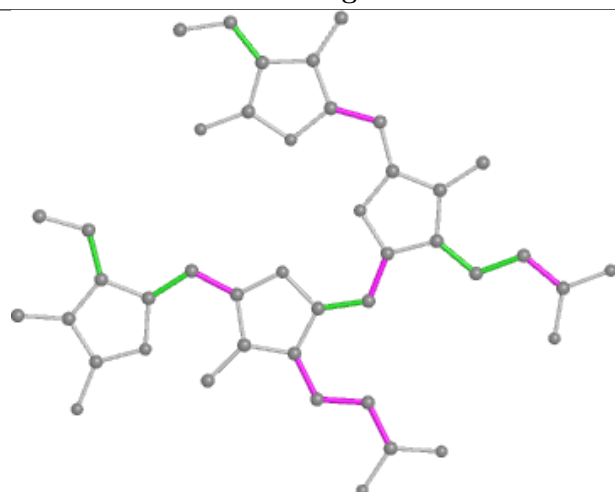
Ligand PEB m7 203



Bond lengths



Bond angles

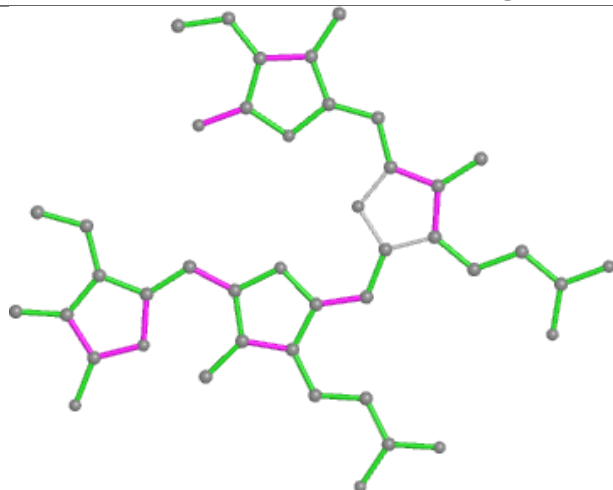


Torsions

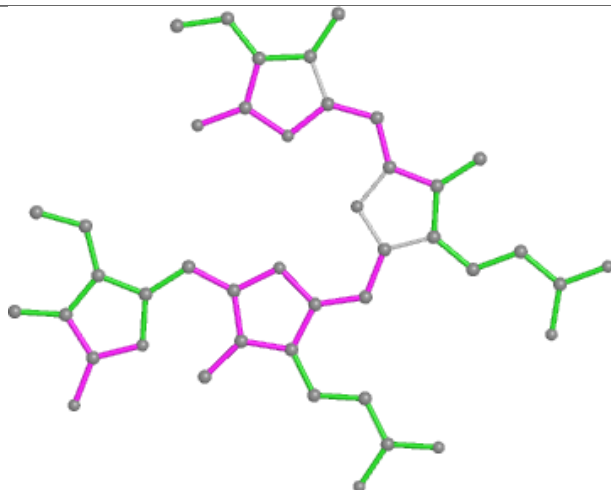


Rings

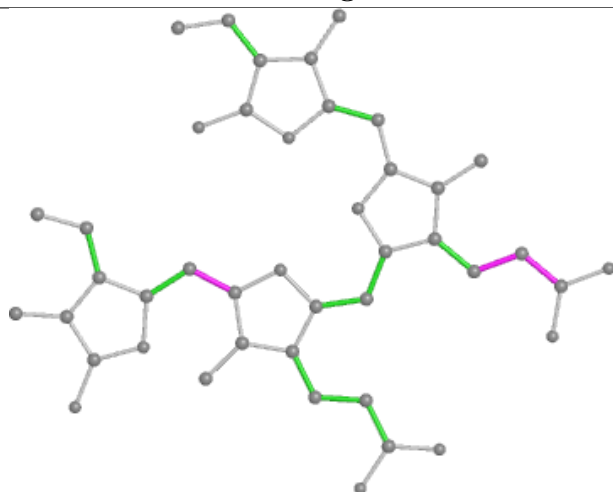
Ligand PEB EM 201



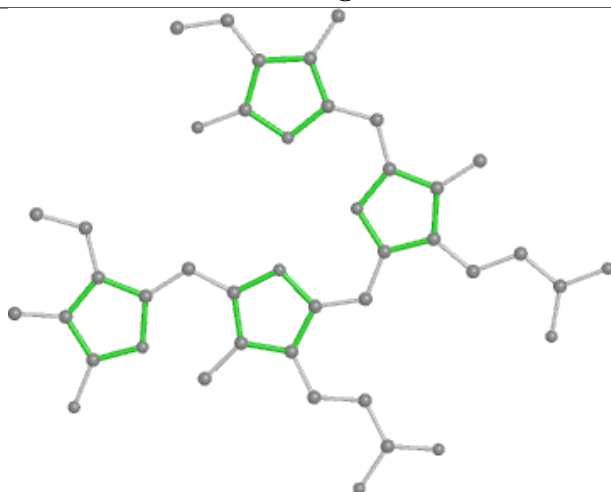
Bond lengths



Bond angles

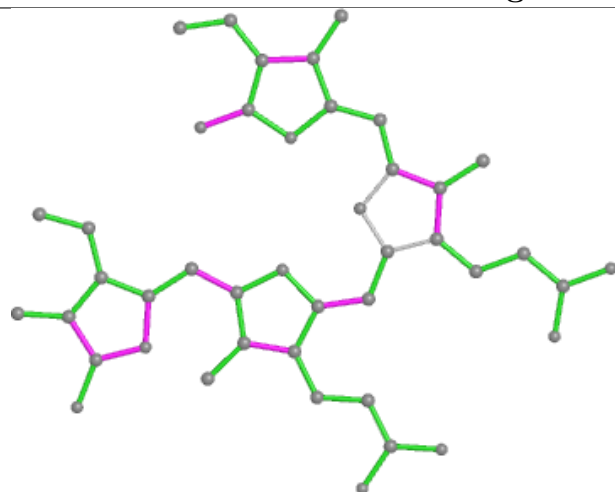


Torsions

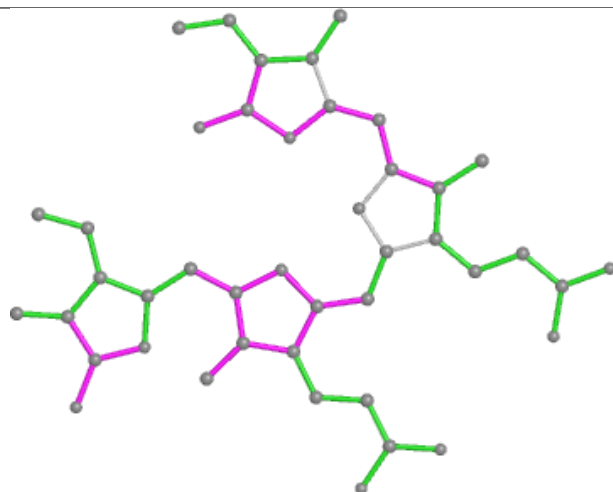


Rings

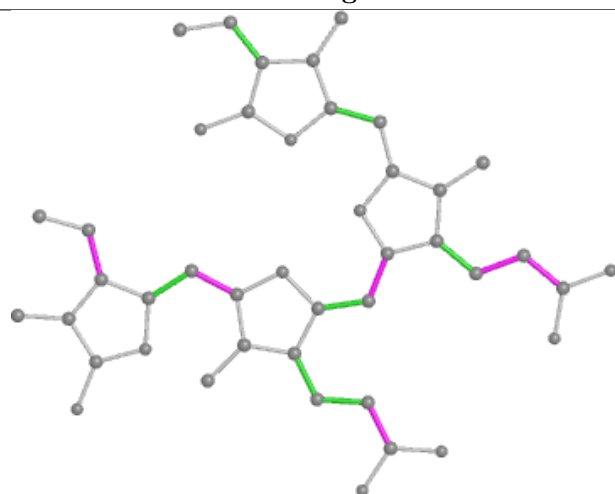
Ligand PEB UJ 202



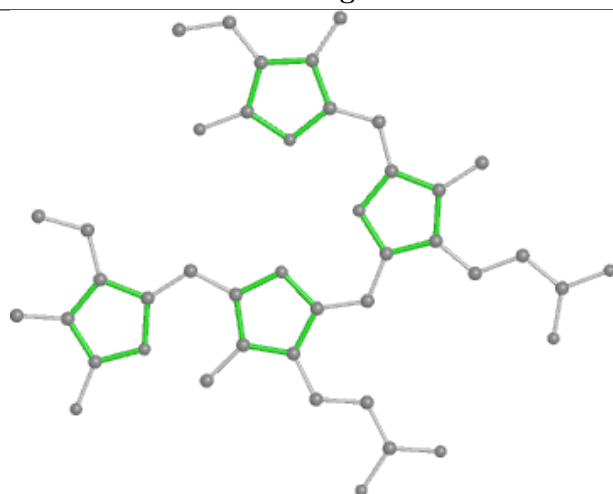
Bond lengths



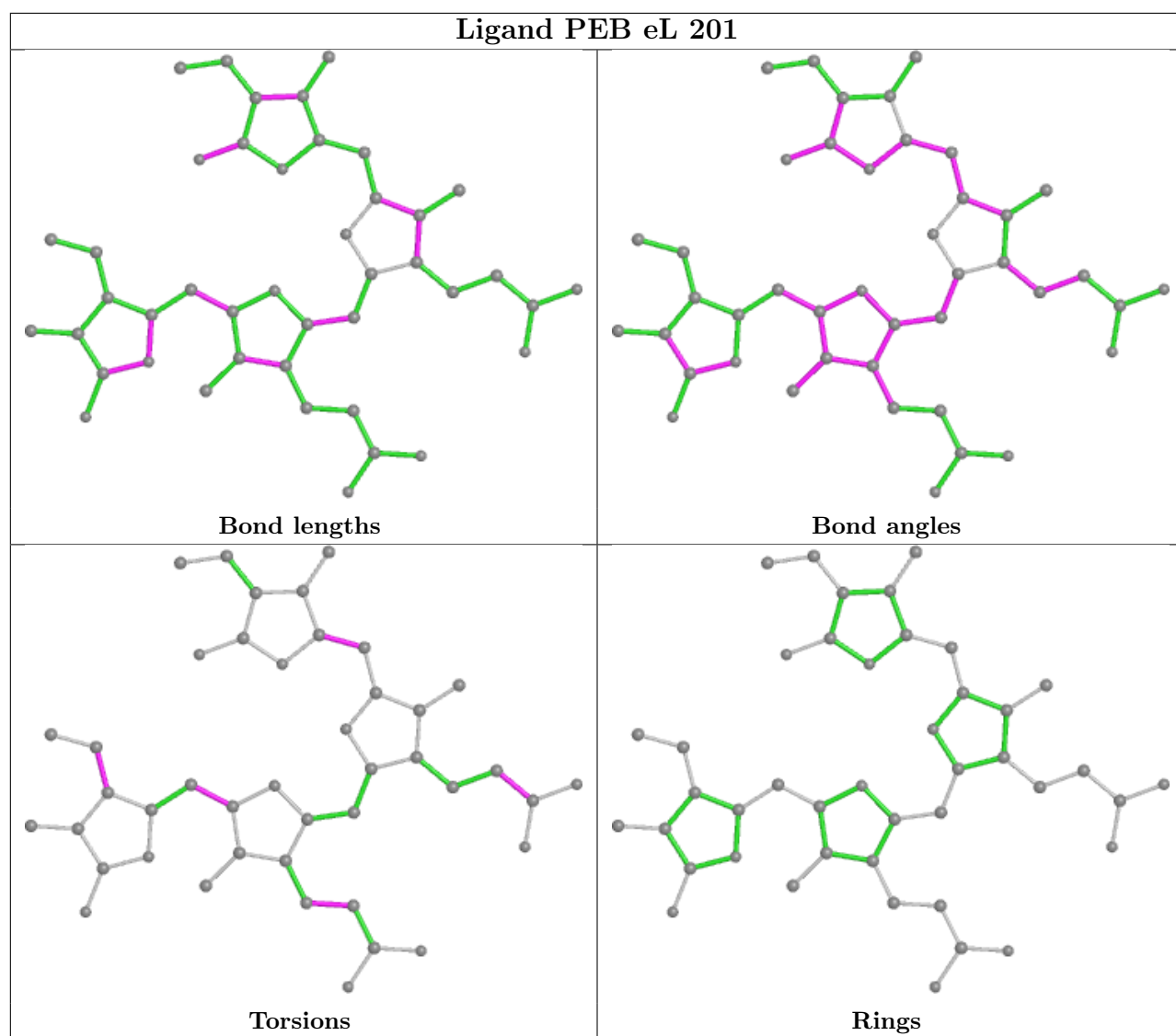
Bond angles

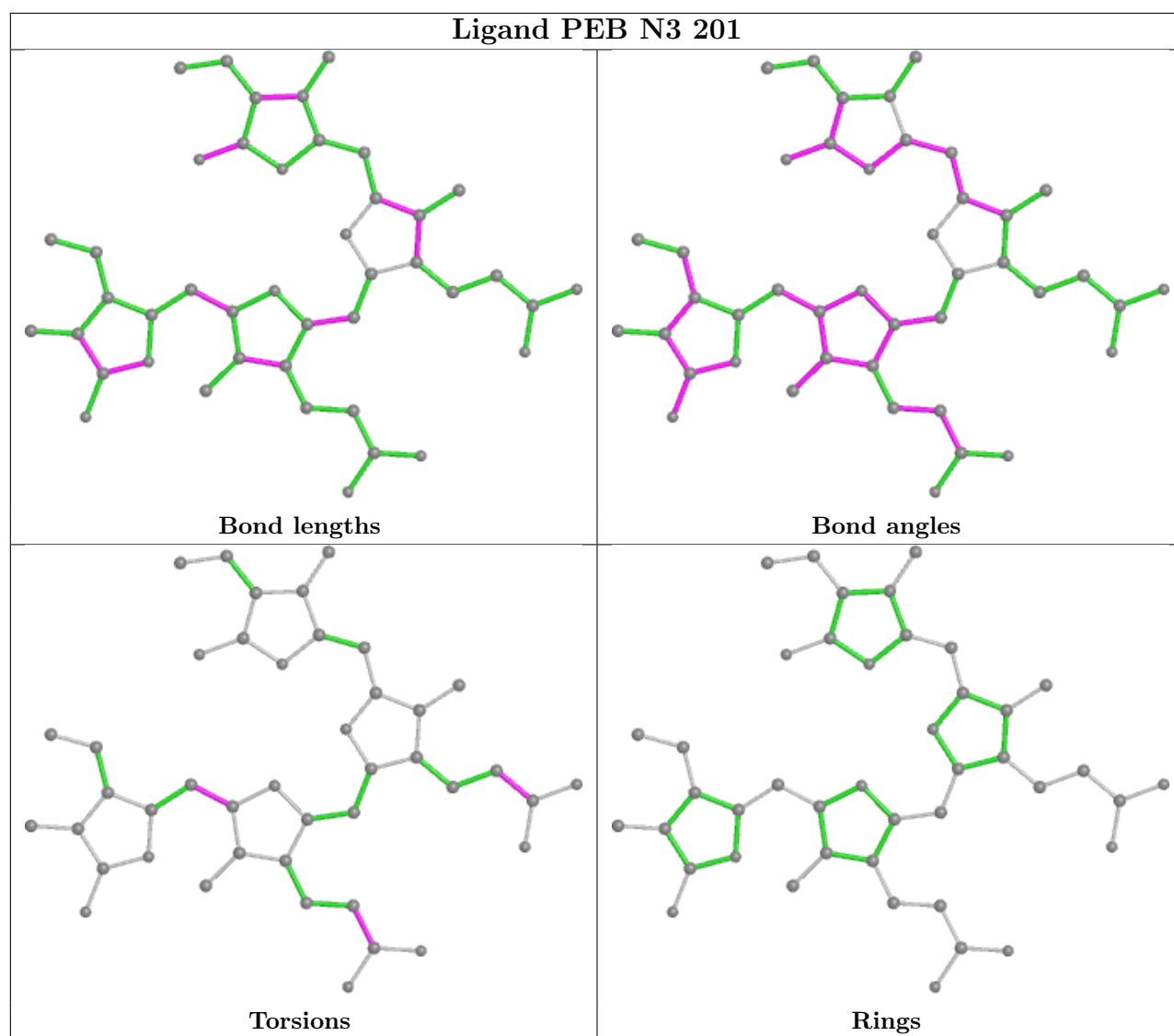


Torsions



Rings





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

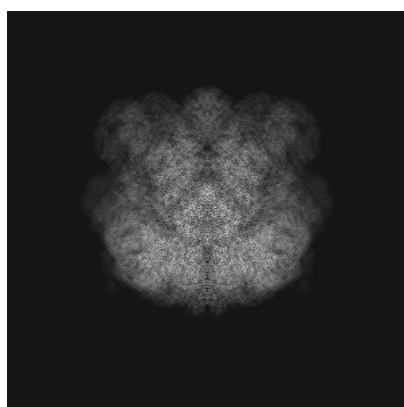
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-31393. These allow visual inspection of the internal detail of the map and identification of artifacts.

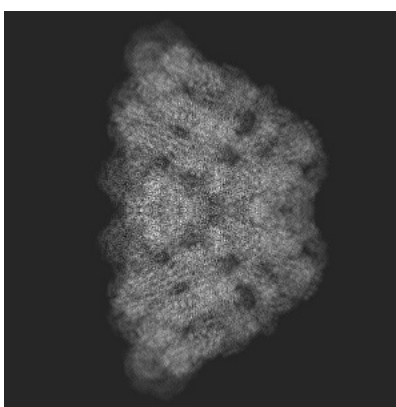
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

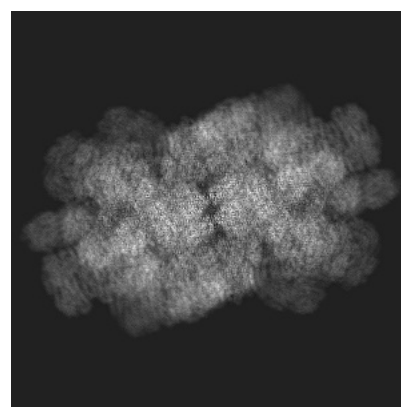
6.1.1 Primary map



X



Y



Z

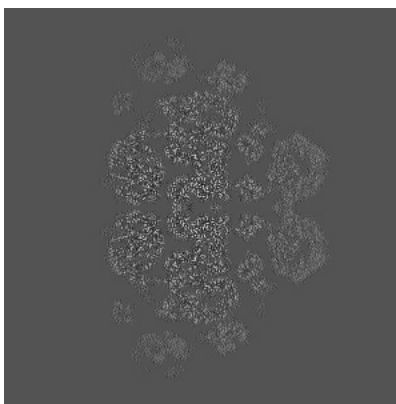
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

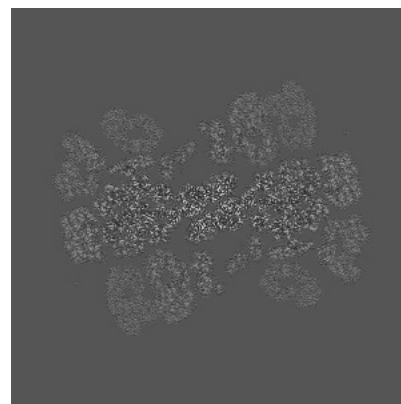
6.2.1 Primary map



X Index: 290



Y Index: 290



Z Index: 290

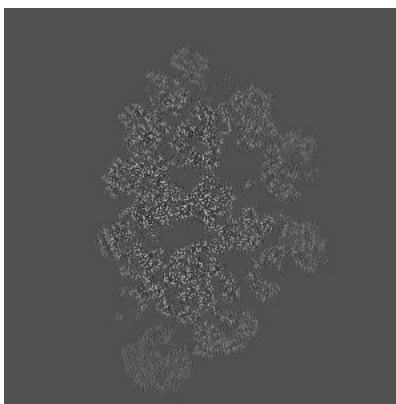
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

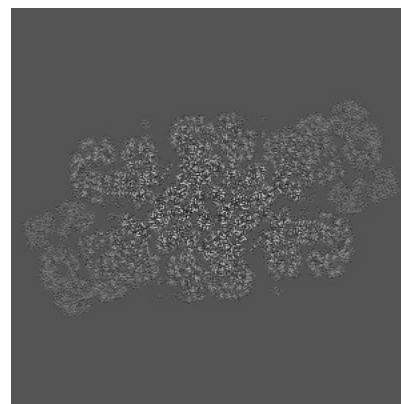
6.3.1 Primary map



X Index: 322



Y Index: 271

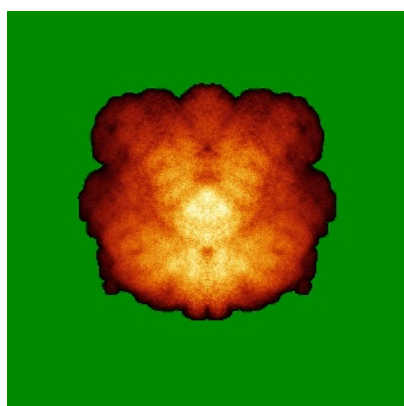


Z Index: 217

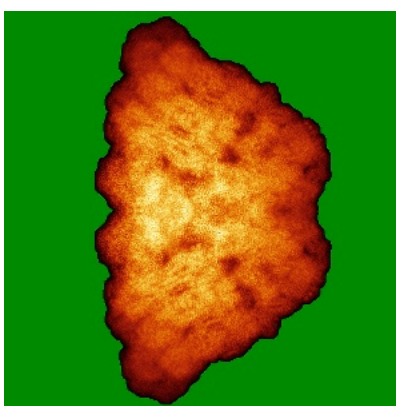
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

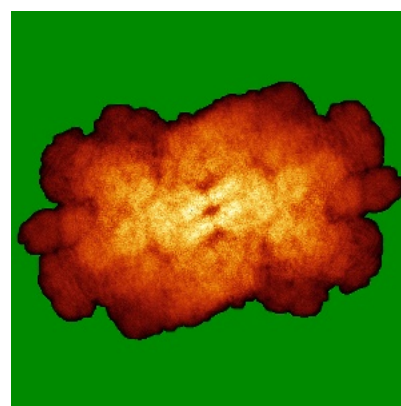
6.4.1 Primary map



X



Y

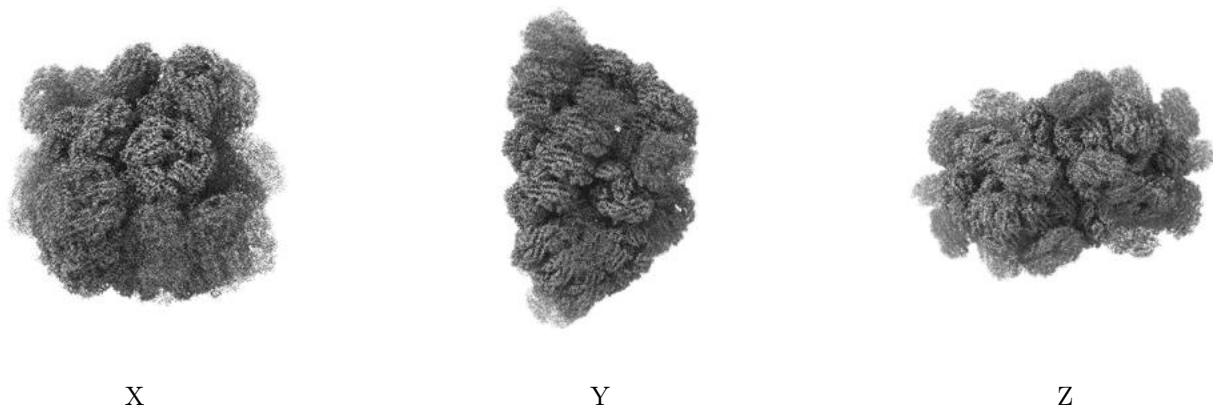


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

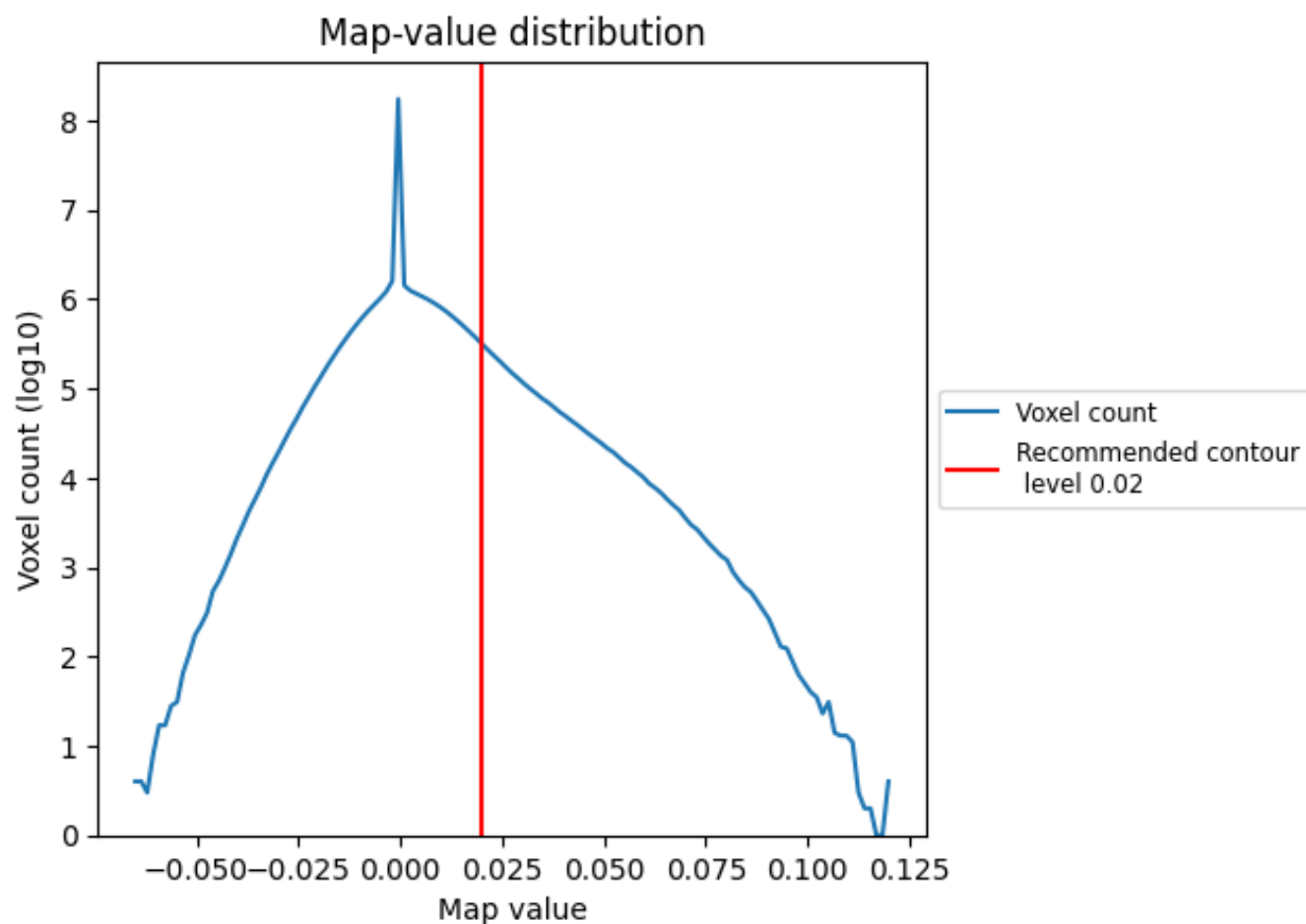
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

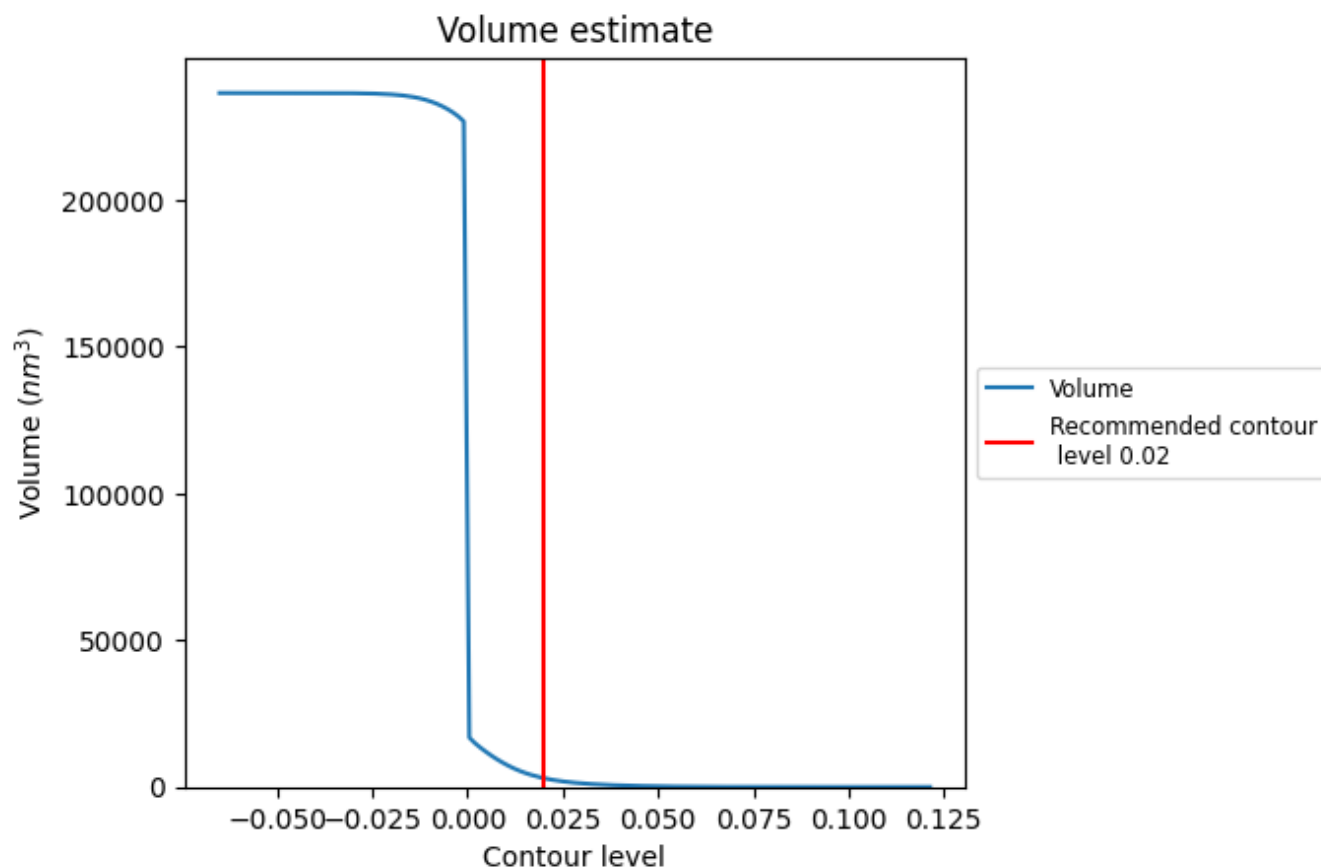
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

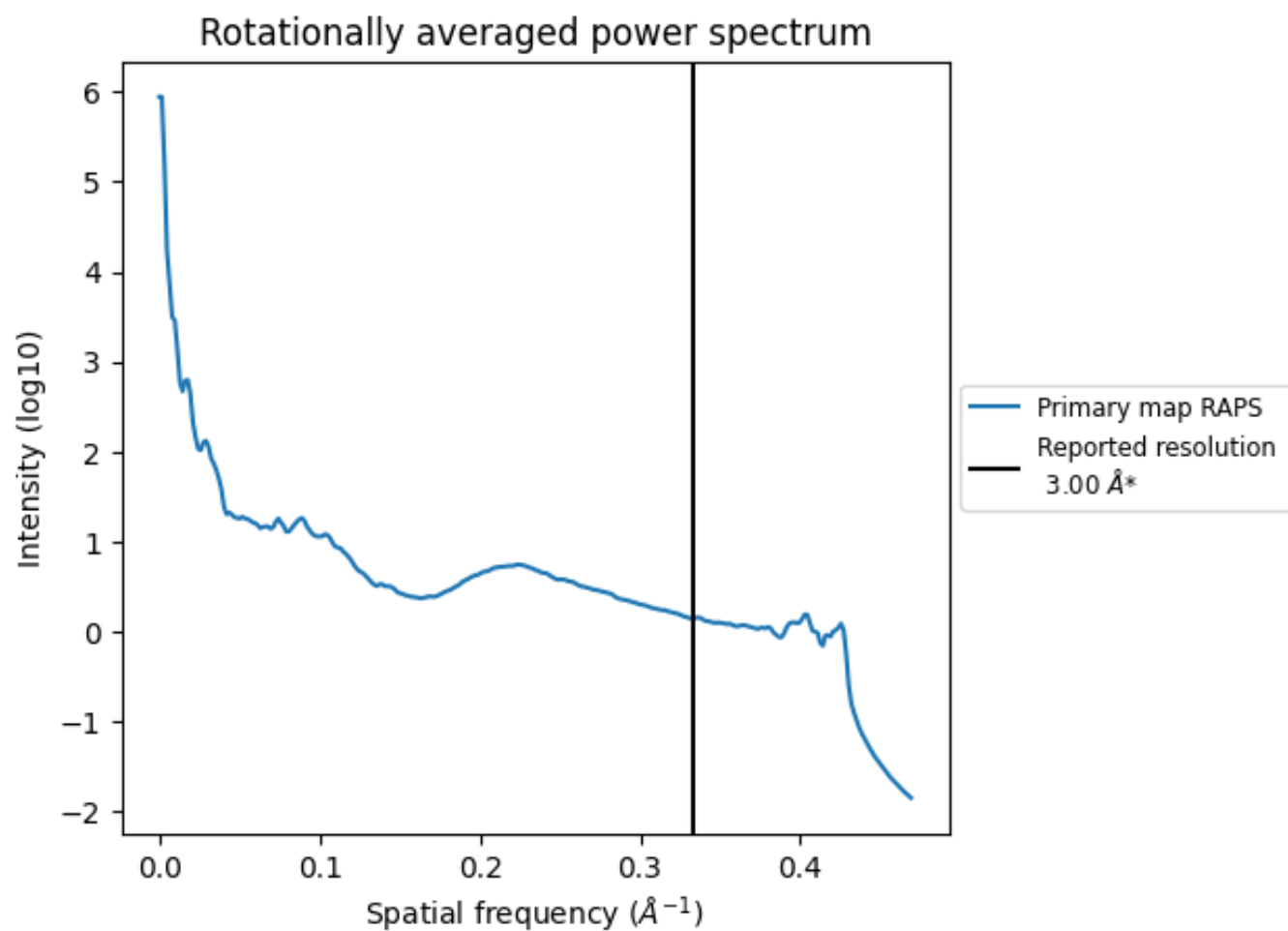
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3006 nm^3 ; this corresponds to an approximate mass of 2716 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.333 Å⁻¹

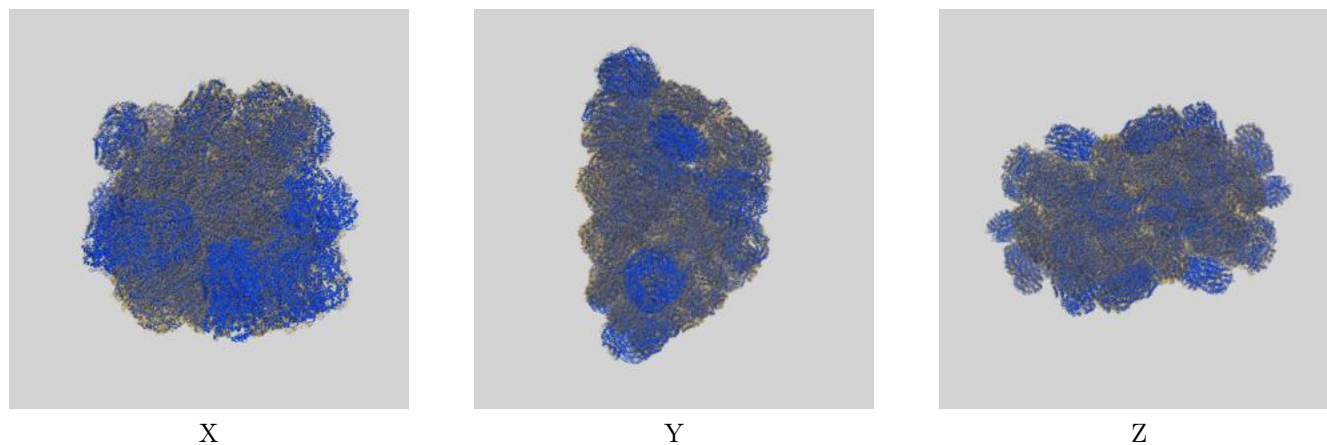
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

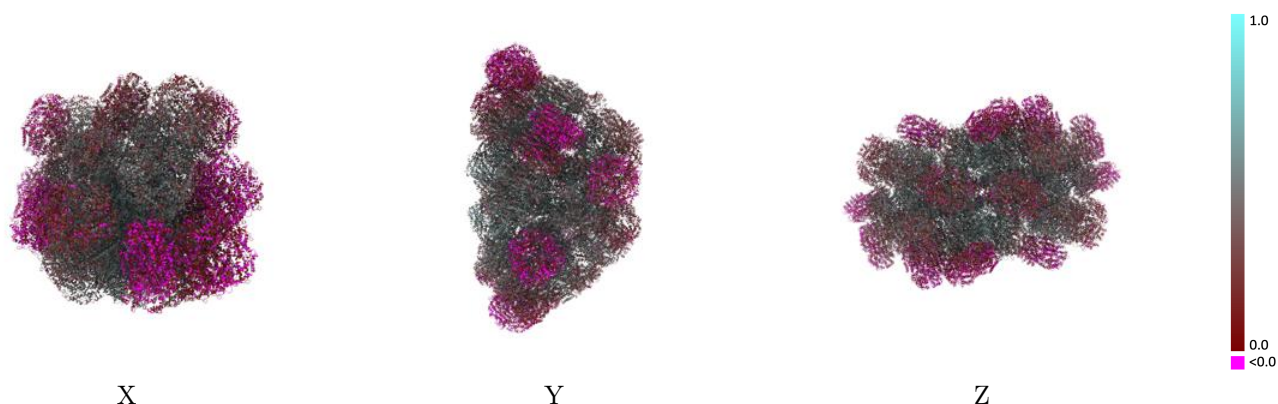
This section contains information regarding the fit between EMDB map EMD-31393 and PDB model 7EZK. Per-residue inclusion information can be found in section 3 on page 137.

9.1 Map-model overlay [i](#)



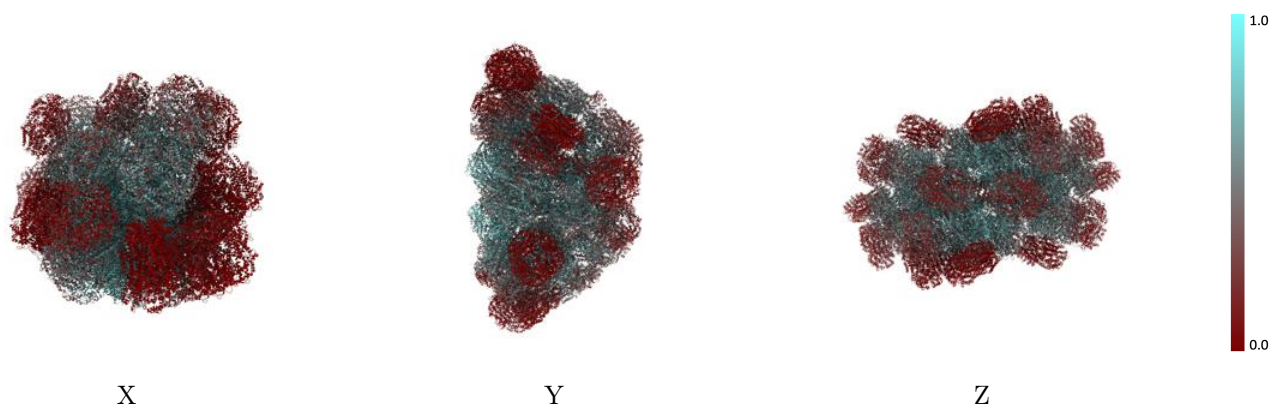
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



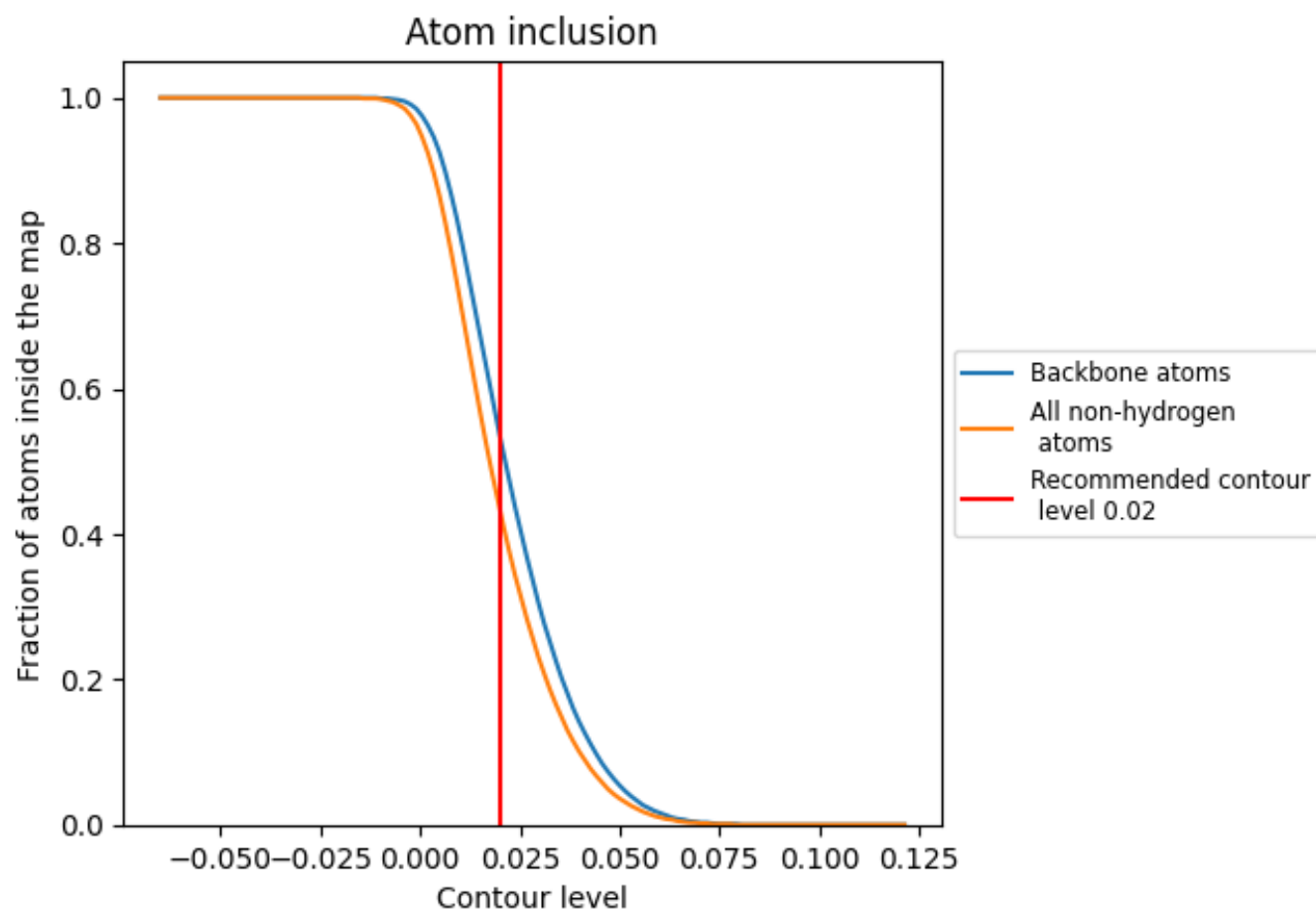
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion [i](#)



At the recommended contour level, 53% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4330	 0.3580
1P	 0.8010	 0.5930
2P	 0.7070	 0.5460
3P	 0.7460	 0.5620
4P	 0.7640	 0.5730
A1	 0.0690	 0.1470
A3	 0.6740	 0.4950
A5	 0.0320	 0.1800
A7	 0.5670	 0.4590
A8	 0.0310	 0.1830
A9	 0.5670	 0.4600
AA	 0.0120	 0.0270
AB	 0.1980	 0.2990
AC	 0.0370	 0.0570
AE	 0.0380	 0.0560
AF	 0.3850	 0.3680
AG	 0.0110	 0.0240
AI	 0.3830	 0.3670
AJ	 0.5360	 0.4260
AK	 0.0650	 0.1500
AL	 0.5290	 0.4200
AM	 0.1990	 0.3000
AN	 0.0140	 0.0330
AO	 0.6770	 0.5020
AP	 0.6920	 0.4990
AQ	 0.0110	 0.0200
B1	 0.5950	 0.4650
B3	 0.5890	 0.4590
B4	 0.2360	 0.2570
B5	 0.1220	 0.2730
B7	 0.8120	 0.5680
B8	 0.1150	 0.2790
B9	 0.8150	 0.5740
BA	 0.0090	 0.0390
BB	 0.5720	 0.4690



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Chain	Atom inclusion	Q-score
BC	 0.0370	 0.0800
BD	 0.2360	 0.2570
BE	 0.0360	 0.0820
BF	 0.7370	 0.5270
BG	 0.0170	 0.0910
BI	 0.7400	 0.5250
BJ	 0.4870	 0.3810
BK	 0.5950	 0.4580
BL	 0.5000	 0.3980
BM	 0.5710	 0.4710
BN	 0.0110	 0.0380
BO	 0.5960	 0.4640
BP	 0.7410	 0.5240
BQ	 0.0180	 0.0940
C1	 0.3030	 0.3140
C3	 0.4610	 0.3940
C4	 0.2490	 0.2710
C5	 0.0140	 0.1360
C7	 0.8450	 0.5720
C8	 0.0130	 0.1380
C9	 0.8360	 0.5750
CA	 0.0110	 0.0180
CB	 0.6470	 0.4950
CC	 0.0740	 0.1300
CD	 0.2490	 0.2710
CE	 0.0710	 0.1320
CF	 0.7330	 0.5380
CG	 0.0090	 0.0270
CI	 0.7320	 0.5450
CJ	 0.5250	 0.4110
CK	 0.2960	 0.3100
CL	 0.5260	 0.4170
CM	 0.6520	 0.4970
CN	 0.0120	 0.0210
CO	 0.4640	 0.3980
CP	 0.6520	 0.4590
CQ	 0.0080	 0.0260
D1	 0.2580	 0.2830
D3	 0.6430	 0.4900
D4	 0.3670	 0.3420
D5	 0.0510	 0.2170
D7	 0.8090	 0.5680

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Chain	Atom inclusion	Q-score
D8	 0.0510	 0.2130
D9	 0.8080	 0.5700
DA	 0.0080	 0.0270
DB	 0.5260	 0.4300
DC	 0.0900	 0.1420
DD	 0.3690	 0.3420
DE	 0.0900	 0.1420
DF	 0.6830	 0.4980
DG	 0.0080	 0.0470
DI	 0.6840	 0.4990
DJ	 0.5610	 0.4460
DK	 0.2680	 0.2850
DL	 0.5560	 0.4380
DM	 0.5230	 0.4300
DN	 0.0090	 0.0270
DO	 0.6380	 0.4830
DP	 0.7400	 0.4920
DQ	 0.0090	 0.0520
E1	 0.7280	 0.5280
E3	 0.4340	 0.3640
E4	 0.3390	 0.3150
E5	 0.4760	 0.4280
E7	 0.8070	 0.5670
E8	 0.4740	 0.4280
E9	 0.8080	 0.5750
EA	 0.0140	 0.0450
EB	 0.4860	 0.4170
EC	 0.0350	 0.0760
ED	 0.3400	 0.3130
EE	 0.0350	 0.0770
EF	 0.7620	 0.5600
EG	 0.0100	 0.0330
EI	 0.7600	 0.5550
EJ	 0.6040	 0.4530
EK	 0.7280	 0.5300
EL	 0.6060	 0.4490
EM	 0.4910	 0.4190
EN	 0.0150	 0.0470
EO	 0.4400	 0.3700
EP	 0.7350	 0.4910
EQ	 0.0100	 0.0390
F1	 0.4890	 0.4170

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Chain	Atom inclusion	Q-score
F3	 0.5210	 0.4120
F4	 0.3200	 0.3160
F5	 0.4860	 0.4310
F7	 0.7390	 0.5280
F8	 0.4880	 0.4300
F9	 0.7530	 0.5440
FA	 0.0350	 0.1250
FB	 0.6430	 0.4680
FC	 0.0480	 0.0870
FD	 0.3280	 0.3150
FE	 0.0470	 0.0870
FF	 0.6780	 0.5180
FG	 0.0170	 0.0700
FI	 0.6830	 0.5170
FJ	 0.6890	 0.4780
FK	 0.4920	 0.4190
FL	 0.6980	 0.4920
FM	 0.6420	 0.4670
FN	 0.0360	 0.1320
FO	 0.5190	 0.4110
FP	 0.8010	 0.5580
FQ	 0.0180	 0.0730
G1	 0.4050	 0.3670
G3	 0.4570	 0.3870
G4	 0.1900	 0.2260
G5	 0.3210	 0.3360
G7	 0.8450	 0.6000
G8	 0.3240	 0.3340
G9	 0.8540	 0.5990
GA	 0.0410	 0.0870
GB	 0.4570	 0.3940
GC	 0.1010	 0.1560
GD	 0.1950	 0.2310
GE	 0.0960	 0.1540
GF	 0.8180	 0.5740
GG	 0.0140	 0.0220
GI	 0.8220	 0.5790
GJ	 0.7510	 0.5180
GK	 0.3940	 0.3590
GL	 0.7590	 0.5230
GM	 0.4610	 0.3990
GN	 0.0380	 0.0860

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Chain	Atom inclusion	Q-score
GO	 0.4520	 0.3890
GP	 0.7790	 0.5360
GQ	 0.0140	 0.0230
H1	 0.5400	 0.4200
H3	 0.4370	 0.3720
H4	 0.2490	 0.2680
H5	 0.5370	 0.4570
H7	 0.7700	 0.5520
H8	 0.5400	 0.4540
H9	 0.7710	 0.5570
HA	 0.0210	 0.0580
HB	 0.5500	 0.4460
HC	 0.0910	 0.1360
HD	 0.2550	 0.2790
HE	 0.0910	 0.1330
HF	 0.7580	 0.5570
HG	 0.0110	 0.0380
HI	 0.7600	 0.5610
HJ	 0.6820	 0.4860
HK	 0.5520	 0.4370
HL	 0.6880	 0.4940
HM	 0.5450	 0.4500
HN	 0.0180	 0.0590
HO	 0.4350	 0.3800
HP	 0.7350	 0.5180
HQ	 0.0110	 0.0440
I1	 0.7370	 0.5350
I3	 0.6030	 0.4670
I4	 0.4630	 0.3880
I5	 0.6430	 0.4640
I7	 0.8320	 0.5850
I8	 0.6400	 0.4570
I9	 0.8330	 0.5890
IA	 0.0110	 0.0340
IB	 0.6130	 0.4680
IC	 0.0700	 0.1410
ID	 0.4680	 0.3850
IE	 0.0660	 0.1420
IF	 0.8100	 0.5670
IG	 0.0110	 0.0750
II	 0.8090	 0.5690
IJ	 0.7300	 0.5200

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Chain	Atom inclusion	Q-score
IK	 0.7400	 0.5360
IL	 0.7270	 0.5170
IM	 0.6050	 0.4660
IN	 0.0090	 0.0280
IO	 0.5970	 0.4660
IP	 0.8340	 0.5860
IQ	 0.0100	 0.0740
J1	 0.5130	 0.4220
J3	 0.7390	 0.5350
J4	 0.1720	 0.2200
J5	 0.7120	 0.5230
J7	 0.8120	 0.5570
J8	 0.7120	 0.5190
J9	 0.8130	 0.5550
JA	 0.0100	 0.0350
JB	 0.5410	 0.4470
JC	 0.0300	 0.0890
JD	 0.1680	 0.2200
JE	 0.0330	 0.0860
JF	 0.8120	 0.5690
JG	 0.0220	 0.1200
JI	 0.8160	 0.5760
JJ	 0.6600	 0.4940
JK	 0.5150	 0.4250
JL	 0.6670	 0.5010
JM	 0.5460	 0.4480
JN	 0.0070	 0.0340
JO	 0.7400	 0.5340
JP	 0.7870	 0.5560
JQ	 0.0190	 0.1200
K1	 0.4830	 0.4140
K3	 0.7540	 0.5360
K4	 0.1600	 0.1990
K5	 0.4850	 0.4120
K7	 0.8280	 0.5730
K8	 0.4840	 0.4120
K9	 0.8430	 0.5880
KA	 0.0090	 0.0150
KB	 0.6980	 0.5190
KC	 0.0460	 0.0820
KD	 0.1590	 0.1980
KE	 0.0460	 0.0860

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Chain	Atom inclusion	Q-score
KF	 0.7660	 0.5560
KG	 0.0120	 0.0830
KI	 0.7710	 0.5610
KJ	 0.6170	 0.4410
KK	 0.4860	 0.4180
KL	 0.6310	 0.4570
KM	 0.6910	 0.5180
KN	 0.0080	 0.0170
KO	 0.7510	 0.5370
KP	 0.7150	 0.5100
KQ	 0.0120	 0.0770
L1	 0.6910	 0.5110
L3	 0.6210	 0.4850
L4	 0.2050	 0.2400
L5	 0.5460	 0.4460
L7	 0.7820	 0.5510
L8	 0.5410	 0.4390
L9	 0.7910	 0.5560
LA	 0.0140	 0.0190
LB	 0.6820	 0.5030
LC	 0.1230	 0.1900
LD	 0.2010	 0.2410
LE	 0.1200	 0.1880
LF	 0.7400	 0.5340
LG	 0.0170	 0.0710
LI	 0.7390	 0.5330
LJ	 0.7400	 0.5150
LK	 0.6900	 0.5120
LL	 0.7450	 0.5140
LM	 0.6970	 0.5080
LN	 0.0140	 0.0190
LO	 0.6190	 0.4910
LP	 0.7510	 0.5010
LQ	 0.0180	 0.0860
M1	 0.3130	 0.2940
M2	 0.3810	 0.3270
M3	 0.5320	 0.4050
M4	 0.2360	 0.2480
M7	 0.8390	 0.5740
M9	 0.8500	 0.5950
MA	 0.0260	 0.0750
MB	 0.7400	 0.5360

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Chain	Atom inclusion	Q-score
MC	 0.1530	 0.1960
MD	 0.2260	 0.2390
ME	 0.1500	 0.1870
MF	 0.8160	 0.5810
MG	 0.0180	 0.0900
MI	 0.8190	 0.5850
MJ	 0.4290	 0.3720
MK	 0.3170	 0.2930
ML	 0.4370	 0.3740
MM	 0.7440	 0.5370
MN	 0.0210	 0.0740
MO	 0.5390	 0.4110
MP	 0.7520	 0.5250
MQ	 0.0260	 0.1110
MR	 0.3870	 0.3380
N1	 0.3610	 0.3230
N2	 0.4860	 0.4000
N3	 0.3620	 0.3330
N7	 0.8170	 0.5670
N9	 0.8130	 0.5640
NB	 0.7480	 0.5330
NF	 0.7290	 0.5290
NI	 0.7370	 0.5300
NJ	 0.4510	 0.3900
NK	 0.3670	 0.3260
NL	 0.4500	 0.3960
NM	 0.7480	 0.5320
NO	 0.3670	 0.3240
NP	 0.8090	 0.5670
NR	 0.4820	 0.3990
O1	 0.2300	 0.2790
O2	 0.6140	 0.4530
O3	 0.5460	 0.4280
O7	 0.6760	 0.4980
O9	 0.6760	 0.5020
OB	 0.5080	 0.4260
OF	 0.6330	 0.4950
OI	 0.6360	 0.5010
OJ	 0.5190	 0.4260
OK	 0.2300	 0.2800
OL	 0.5210	 0.4310
OM	 0.5070	 0.4310

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Chain	Atom inclusion	Q-score
OO	 0.5500	 0.4330
OP	 0.7090	 0.5010
OR	 0.6190	 0.4560
P1	 0.4100	 0.3910
P2	 0.5380	 0.4350
P7	 0.7000	 0.5120
P9	 0.7020	 0.5180
PB	 0.4120	 0.3740
PF	 0.6300	 0.4840
PI	 0.6340	 0.4900
PJ	 0.5330	 0.4390
PK	 0.4060	 0.3920
PL	 0.5390	 0.4460
PM	 0.4120	 0.3750
PP	 0.7930	 0.5300
PR	 0.5360	 0.4310
Q1	 0.2790	 0.3130
Q2	 0.5570	 0.4310
Q7	 0.7450	 0.5290
Q9	 0.7440	 0.5330
QB	 0.4150	 0.3640
QF	 0.5370	 0.4400
QI	 0.5390	 0.4430
QJ	 0.4970	 0.4280
QK	 0.2800	 0.3070
QL	 0.5020	 0.4300
QM	 0.4150	 0.3610
QP	 0.8290	 0.5660
QR	 0.5610	 0.4340
R1	 0.1950	 0.2420
R2	 0.5240	 0.4300
R7	 0.7790	 0.5470
R9	 0.7760	 0.5520
RB	 0.5560	 0.4460
RF	 0.6080	 0.4830
RI	 0.6140	 0.4870
RJ	 0.5490	 0.4430
RK	 0.1920	 0.2430
RL	 0.5580	 0.4480
RM	 0.5550	 0.4440
RP	 0.7910	 0.5260
RR	 0.5190	 0.4330

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Chain	Atom inclusion	Q-score
S1	 0.2420	 0.2700
S2	 0.5960	 0.4650
S7	 0.7330	 0.5410
S9	 0.7350	 0.5450
SB	 0.3820	 0.3610
SF	 0.5650	 0.4500
SI	 0.5650	 0.4520
SJ	 0.6200	 0.4480
SK	 0.2460	 0.2760
SL	 0.6240	 0.4620
SM	 0.3860	 0.3610
SP	 0.8210	 0.5620
SR	 0.5920	 0.4630
T1	 0.2390	 0.2820
T2	 0.6910	 0.5140
T7	 0.6950	 0.5250
T9	 0.7020	 0.5340
TB	 0.5170	 0.4350
TF	 0.6630	 0.4980
TI	 0.6550	 0.4980
TJ	 0.6380	 0.4900
TK	 0.2380	 0.2820
TL	 0.6470	 0.4950
TM	 0.5150	 0.4390
TP	 0.7840	 0.5270
TR	 0.6840	 0.5140
U1	 0.1460	 0.2190
U2	 0.4560	 0.3930
U7	 0.7240	 0.5170
U9	 0.7250	 0.5230
UB	 0.5720	 0.4560
UF	 0.5510	 0.4490
UI	 0.5530	 0.4430
UJ	 0.6140	 0.4740
UK	 0.1500	 0.2220
UL	 0.6160	 0.4750
UM	 0.5770	 0.4680
UP	 0.8590	 0.5930
UR	 0.4600	 0.3970
V1	 0.1840	 0.2560
V2	 0.3530	 0.3210
V7	 0.7910	 0.5610

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Chain	Atom inclusion	Q-score
V9	 0.7950	 0.5610
VB	 0.4570	 0.4060
VF	 0.5290	 0.4350
VI	 0.5270	 0.4410
VJ	 0.4980	 0.4090
VK	 0.1900	 0.2590
VL	 0.5140	 0.4130
VM	 0.4550	 0.4060
VP	 0.7470	 0.5580
VR	 0.3520	 0.3250
W1	 0.1290	 0.1740
W2	 0.4220	 0.3610
W7	 0.7080	 0.5190
W9	 0.7140	 0.5270
WB	 0.6780	 0.5150
WF	 0.6380	 0.4890
WI	 0.6370	 0.4900
WJ	 0.5380	 0.4220
WK	 0.1300	 0.1760
WL	 0.5470	 0.4280
WM	 0.6810	 0.5150
WP	 0.7840	 0.5900
WR	 0.4190	 0.3600
X1	 0.3370	 0.3640
X2	 0.5510	 0.4570
X7	 0.7790	 0.5530
X9	 0.7830	 0.5600
XB	 0.6110	 0.4790
XF	 0.6800	 0.5230
XI	 0.6840	 0.5270
XJ	 0.6500	 0.4860
XK	 0.3400	 0.3620
XL	 0.6480	 0.4880
XM	 0.6190	 0.4840
XP	 0.8550	 0.6050
XR	 0.5550	 0.4600
Y1	 0.1950	 0.2540
Y7	 0.6750	 0.5020
Y9	 0.6850	 0.5120
YB	 0.6400	 0.4960
YF	 0.7040	 0.5280
YI	 0.7140	 0.5330

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Chain	Atom inclusion	Q-score
YJ	 0.0960	 0.1130
YK	 0.1880	 0.2550
YL	 0.0950	 0.1180
YM	 0.6420	 0.5030
YP	 0.8020	 0.5920
Z1	 0.1210	 0.1860
Z7	 0.6970	 0.5010
Z9	 0.7040	 0.5110
ZB	 0.6920	 0.5120
ZF	 0.6520	 0.4990
ZI	 0.6510	 0.4970
ZJ	 0.1110	 0.1350
ZK	 0.1200	 0.1850
ZL	 0.1170	 0.1330
ZM	 0.6960	 0.5210
ZP	 0.7060	 0.5470
a1	 0.1050	 0.1590
a7	 0.7220	 0.5080
a9	 0.7300	 0.5160
aB	 0.1990	 0.3080
aF	 0.5610	 0.4540
aI	 0.5630	 0.4590
aJ	 0.1930	 0.2190
aK	 0.1040	 0.1610
aL	 0.1930	 0.2200
aM	 0.1980	 0.3130
aP	 0.7500	 0.5660
b1	 0.0540	 0.0950
b7	 0.4930	 0.3940
b9	 0.5000	 0.3990
bB	 0.6780	 0.4980
bF	 0.4800	 0.4160
bI	 0.4770	 0.4160
bJ	 0.2130	 0.2240
bK	 0.0580	 0.0960
bL	 0.2180	 0.2330
bM	 0.6720	 0.4940
bP	 0.7620	 0.5710
c1	 0.0800	 0.1740
c7	 0.4460	 0.3870
c9	 0.4560	 0.3890
cB	 0.1140	 0.2190

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Chain	Atom inclusion	Q-score
cF	 0.4320	 0.4060
cI	 0.4340	 0.4080
cJ	 0.1850	 0.2160
cK	 0.0820	 0.1770
cL	 0.1810	 0.2220
cM	 0.1120	 0.2220
cP	 0.6940	 0.4970
d1	 0.0600	 0.1020
d4	 0.3220	 0.2860
d7	 0.5490	 0.4500
d9	 0.5460	 0.4520
dB	 0.1750	 0.2800
dD	 0.3520	 0.3250
dF	 0.3350	 0.3150
dI	 0.3390	 0.3170
dJ	 0.1360	 0.1860
dK	 0.0580	 0.1030
dL	 0.1350	 0.1850
dM	 0.1740	 0.2810
dP	 0.7500	 0.4920
e1	 0.0460	 0.0860
e2	 0.4980	 0.3770
e7	 0.6080	 0.4870
e9	 0.6100	 0.4870
eB	 0.3450	 0.3970
eF	 0.3620	 0.3580
eI	 0.3650	 0.3600
eJ	 0.1620	 0.1830
eK	 0.0460	 0.0880
eL	 0.1630	 0.1840
eM	 0.3470	 0.4040
eP	 0.6500	 0.4610
eR	 0.4730	 0.3480
f1	 0.0670	 0.1320
f7	 0.4800	 0.3960
f9	 0.4730	 0.3930
fB	 0.0900	 0.1660
fF	 0.2990	 0.3030
fI	 0.3020	 0.3040
fJ	 0.2530	 0.2880
fK	 0.0710	 0.1370
fL	 0.2580	 0.2890

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Chain	Atom inclusion	Q-score
fM	 0.0870	 0.1680
fP	 0.7990	 0.5580
g1	 0.0660	 0.1250
g7	 0.4290	 0.3880
g9	 0.4310	 0.3890
gB	 0.0810	 0.1520
gF	 0.3770	 0.3550
gI	 0.3800	 0.3540
gJ	 0.1560	 0.2020
gK	 0.0630	 0.1300
gL	 0.1590	 0.2010
gM	 0.0750	 0.1520
gP	 0.7480	 0.4980
h1	 0.0380	 0.0730
h7	 0.5170	 0.4340
h9	 0.5190	 0.4340
hB	 0.1290	 0.2340
hF	 0.2280	 0.2660
hI	 0.2240	 0.2640
hJ	 0.1170	 0.1620
hK	 0.0350	 0.0760
hL	 0.1200	 0.1580
hM	 0.1310	 0.2330
hP	 0.7330	 0.5150
i1	 0.0470	 0.1020
i7	 0.6070	 0.4830
i9	 0.6000	 0.4860
iB	 0.2080	 0.3100
iF	 0.2440	 0.2850
iI	 0.2380	 0.2850
iJ	 0.2110	 0.2480
iK	 0.0480	 0.1050
iL	 0.2050	 0.2490
iM	 0.2070	 0.3130
iP	 0.7810	 0.5350
j1	 0.0410	 0.0830
j7	 0.4570	 0.3850
j9	 0.4500	 0.3880
jB	 0.1050	 0.2080
jF	 0.3400	 0.3340
jI	 0.3360	 0.3320
jJ	 0.2770	 0.3000

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Chain	Atom inclusion	Q-score
jK	 0.0450	 0.0830
jL	 0.2730	 0.2990
jM	 0.1050	 0.2100
jP	 0.7270	 0.5150
k1	 0.0310	 0.1040
k6	 0.7730	 0.6030
k7	 0.4560	 0.3930
k9	 0.4650	 0.3960
kB	 0.1410	 0.2320
kF	 0.4940	 0.4310
kH	 0.7760	 0.6060
kI	 0.4900	 0.4330
kJ	 0.0080	 0.0370
kK	 0.0330	 0.1060
kL	 0.0100	 0.0400
kM	 0.1390	 0.2300
kP	 0.8360	 0.5830
l1	 0.0250	 0.0520
l7	 0.5400	 0.4290
l9	 0.5560	 0.4330
lB	 0.2980	 0.3490
lF	 0.3900	 0.3730
lI	 0.3940	 0.3760
lJ	 0.0100	 0.0320
lK	 0.0250	 0.0460
lL	 0.0110	 0.0310
lM	 0.2950	 0.3600
lP	 0.7950	 0.5530
m1	 0.0320	 0.0470
m7	 0.5780	 0.4660
m9	 0.5710	 0.4700
mB	 0.2240	 0.3160
mF	 0.2740	 0.2810
mI	 0.2700	 0.2860
mJ	 0.0100	 0.0360
mK	 0.0320	 0.0460
mL	 0.0120	 0.0350
mM	 0.2240	 0.3170
mP	 0.7190	 0.5090
nJ	 0.0110	 0.0220
nL	 0.0110	 0.0230
nP	 0.7520	 0.5010

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Chain	Atom inclusion	Q-score
oJ	 0.0150	 0.0220
oL	 0.0150	 0.0220
oP	 0.7500	 0.5240
pJ	 0.0160	 0.0280
pL	 0.0140	 0.0250
pP	 0.8230	 0.5750
qJ	 0.0140	 0.0500
qL	 0.0120	 0.0470
qP	 0.7130	 0.5040
rJ	 0.0160	 0.0620
rL	 0.0150	 0.0630
rP	 0.7860	 0.5290
sJ	 0.0150	 0.0450
sL	 0.0130	 0.0460
sP	 0.8290	 0.5650
tJ	 0.0130	 0.0390
tL	 0.0130	 0.0360
tP	 0.7830	 0.5350
uJ	 0.0120	 0.0080
uL	 0.0080	 0.0100
uP	 0.8200	 0.5630
vJ	 0.0180	 0.0660
vL	 0.0160	 0.0630
vP	 0.7870	 0.5260
wJ	 0.2660	 0.2830
wL	 0.2670	 0.2880
wP	 0.8620	 0.5950
xJ	 0.0110	 0.0530
xL	 0.0120	 0.0400
xP	 0.7400	 0.5590
yJ	 0.6260	 0.5070
yL	 0.6230	 0.5050
yP	 0.7810	 0.5880
zJ	 0.7150	 0.5140
zL	 0.7130	 0.5130
zP	 0.8450	 0.6020